

U.S. DEPARTMENT OF COMMERCE

Ronald H. Brown, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

D. James Baker, Administrator

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Robert S. Winokur, Assistant Administrator

APRIL 1994 NUMBER 596 - Part II

Solar-Geophysical Data comprehensive reports

Data for October 1993

International Standard Serial Number: 0038-0911

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

NATIONAL GEOPHYSICAL DATA CENTER

Michael A. Chinnery, Director

Boulder, Colorado

Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 596

(Issued in Two Parts)

Editor: Helen E. Coffey

Chief: Joe H. Allen
Solar-Terrestrial Physics Division

Staff: Christine D. Hanchett
Edward H. Erwin

Computer Consultants:
Daniel C. Wilkinson
Grigoriy Ushomirskiy

CONTENTS

PART I (PROMPT REPORTS)	Page
DETAILED INDEX FOR 1993-1994	2
DATA FOR MARCH 1994	3- 37
DATA FOR FEBRUARY 1994	39-114
PART II (COMPREHENSIVE REPORTS)	Page
DETAILED INDEX FOR 1993-1994	2
DATA FOR OCTOBER 1993	3-46
MISCELLANEOUS DATA	47-67
Interplanetary Solar Wind IMP-8 Plots Feb-Sep 93	
Interplanetary Energetic Particle Fluxes from SAMPEX Jan-Jun 93	

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	AUG 93	SEP	OCT	NOV	DEC	JAN 94	FEB	MAR	
A. SOLAR AND INTERPLANETARY EVENTS										
A.1	Sunspot Drawings	590A 41	591A 45	592A 50	593A 47	594A 49	595A 43	596A 47		
A.2aa	International Provisional Sunspot Numbers	589A 25	590A 23	591A 25	592A 23	593A 26	594A 27	595A 25	596A 28	
A.2c	American Sunspot Numbers	589A 25	590A 23	591A 25	592A 23	593A 26	594A 27	595A 25	596A 28	
A.3a	Mt. Wilson Magnetograms	590A 41	591A 45	592A 50	593A 47	594A 49	595A 43	596A 47		
A.3b	Sunspot Mag Class and Regions	590A 88	591A 91	592A 98	593A 77	594A 96	595A 90	596A 90		
A.3c	Kitt Peak Magnetograms	590A 41	591A 45	592A 50	593A 47	594A 49	595A 43	596A 47		
A.3d	Mean Solar Magnetic Field (Stanford)	589A 33	590A 31	591A 35	592A 33	593A 37	594A 39	595A 33	596A 37	
A.3e	Stanford Magnetograms	590A 41	591A 45	592A 50	593A 47	594A 49	595A 43	596A 47		
A.4	H-alpha Filtergrams	590A 41	591A 45	592A 50	593A 47	594A 49	595A 43	596A 47		
A.6c	Stanford Solar Mag Field Synoptic Maps	590A 34	591A 38	592A 36	593A 40	594A 42	595A 36	596A 40		
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	590A 40	591A 44	592A 48	593A 46	594A 48	595A 42	596A 46		
A.6e	Mass Ejections (Proxy data) from the Sun	594B 25	595B 24	596A 34						
A.6f	Active Prominences and Filaments	594B 26	595B 25	596A 35						
A.6g	Sac Peak Coronal Line Synoptic Maps	590A 36	591A 40	592A 40	593A 42	594A 44	595A 38	596A 42		
A.7h	Coronal Line Emission (Sac Peak)	590A 41	591A 45	592A 50	593A 43	594A 49	595A 43	596A 47		
A.8aa	2800 MHz- Solar Flux (Penticton)	589A 25	590A 23	591A 25	592A 23	593A 26	594A 27	595A 25	596A 28	
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	589A 25	590A 23	591A 25	592A 23	593A 26	594A 27	595A 25	596A 28	
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	589A 25	590A 23	591A 25	592A 23	593A 26	594A 27	595A 25	596A 28	
A.10g	Nancay Radioheliograph - 164 MHz	590A105	591A102	592A115	593A108	594A114	595A116	596A102		
A.11g	Solar X-ray GOES (graphs/event table)	594B 16	595B 16	596B 25						
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	590A 72	591A 75	592A 81	593A 77	594A 80	595A 74	596A 75		
A.12e	Solar Particles (IMP H & J)	Dec 88-Oct 89 in 570B 92								
A.12g	Solar Particles (GOES-7)	589A 4	590A 4	591A 4	592A 4	593A 4	594A 4	595A 4	596A 4	
A.12h	Interplanetary Particles (SAMPEX)	Jul-Dec 92 in 595B 36; Jan-Jun 93 in 596B 56								
A.13e	Solar Plasma (IMP-H & J)	Jan 93 in 587B 41; Feb-Sep 93 in 596B 48; Oct 93 in 596B 46								
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-Jul 93 in 593B 43								
A.17c	Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989 in 548A154								
C. SOLAR FLARE-ASSOCIATED EVENTS										
C.1a	H-alpha Flares	589A 28	590A 26	591A 28	592A 26	593A 29	594A 30	595A 28	596A 31	
C.1ba	H-alpha Flare Groups	594B 4	595B 4	596B 4						
C.1d	Flare Patrol Observations	589A 31	590A 29	591A 33	592A 30					
C.1d	Flare Patrol Observations	594B 10	595B 9	596B 12						
C.3	Radio Bursts Fixed Frequency	594B 12	595B 11	596B 14						
C.3	Radio Bursts Fixed Frequency Selected	589A 32	590A 30	591A 34	592A 31	593A 36	594A 37	595A 31	596A 35	
C.4f	Radio Bursts Spectral (Sagamore Hill)	590A102	591A 99	592A109	593A103	594A109	595A105	596A 99		
C.4k	Radio Bursts Spectral (Learmonth)	590A102	591A 99	592A109	593A103	594A109	595A105	596A 99		
C.4l	Radio Bursts Spectral (Palehua)	590A102	591A 99	592A109	593A103	594A109	595A105	596A 99		
C.4m	Radio Bursts Spectral (Ondrejov)	590A102		592A109	593A103	594A109	595A105	596A 99		
C.4n	Radio Bursts Spectral (Potsdam)				593A103	594A109	595A105	596A 99		
C.4o	Radio Bursts Spectral (San Vito)	590A102	591A 99	592A109	593A103	594A109	595A105	596A 99		
C.4p	Radio Bursts Spectral (IZMIRAN)	590A102	591A 99	592A109	593A103	594A109	595A105	596A 99		
C.6	Sudden Ionospheric Disturbances	590A 99	591A 96	592A106	593A100	594A105	595A101	596A 97		
D. GEOMAGNETIC EVENTS										
D.1a	Geomagnetic Indices	590A112	592A143	592A122	593A115	594A120	595A123	596A109		
D.1ba	27-day Chart of Kp Indices	590A114	591A111	592A124	593A117	594A122	595A125	596A111		
D.1cb	Monthly Mean aa Indices	590A115	592A125	593A118	593A118	594A123	595A126	596A112		
D.1d	Principal Magnetic Storms	590A116	591A113	592A128	593A120	594A125	595A128	596A113		
D.1f	Sudden Commencements/Flare Effects	Jul-Oct	92 in 583	A140			595A129	596A114		
D.1g	Equatorial Indices Dst	**Jan-Feb 88 in 590A118**; May-Jul 93 in 592A144								
D.1i	Polar Cap (PC) Index	See UAG	Report		593A119	594A124	595A127			
F. COSMIC RAYS										
F.1a	Cosmic Ray Neutron Cts (Deep River)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
F.1b	Cosmic Ray Neutron Cts (Climax)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
F.1h	Cosmic Ray Neutron Cts (Thule)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
F.1i	Cosmic Ray Neutron Cts (Kiel)									
F.1j	Cosmic Ray Neutron Cts (Tokyo)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
F.1n	Cosmic Ray Neutron Cts (Beijing)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
F.1b	Cosmic Ray Neutron Cts (Haleakala)	590A106	591A103	592A120	593A109	594A115	595A117	596A103		
H. MISCELLANEOUS										
H.60	IUWDS Alert Periods	589A 20	590A 19	591A 20	592A 19	593A 20	594A 20	595A 18	596A 20	

The entry "590A 41" under Aug 1993, for example, means that the sunspot drawings for Aug 1993 appear in SOLAR-GEOPHYSICAL DATA No. 590, Part I, and that they begin on page 41. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

Comprehensive Reports

Number 596 Part II

DATA FOR OCTOBER 1993

	Page
SOLAR FLARES	
H-alpha Solar Flare Groups	4- 11
Intervals of No Flare Patrol Observation	12
Number of Solar Flares August 1965-present	13
SOLAR RADIO BURSTS AT FIXED FREQUENCIES	14-24
SOLAR X-RAY RADIATION FROM GOES SATELLITE Graphs	25-30
Preliminary Event List	31-32
Preliminary Daily Average Background	33
MASS EJECTIONS FROM THE SUN	34
ACTIVE PROMINENCES AND FILAMENTS	35-45
SOLAR IRRADIANCE (Unavailable at time of publication.)	
IMP-8 SOLAR WIND Plot	46

4
Oct 93

H α SOLAR FLARES

OCTOBER 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001		01	00123	00152	0023	N08	E42	7590	10	4.1	11	SF	C	1.2			17	0.3	E	
	WATU	01	0012	0017	0022	N08	E42	7590	10	4.1	10	SF			C	0017	20	0.3	E	
	LEAR	01	0015	0015	0024	N09	E41	7590	10	4.1	9	SF	C	1.2	3	E	14			
0002	LEAR	01	0048	0048	0055	N19	W78	7589	09	25.2	7	SF			3	E	10			
0003	LEAR	01	0132	0133	0135	N18	W80	7589	09	25.1	3	SF			3	E	15			
0004	LEAR	01	0232	0234	0237	N10	E33	7590	10	3.6	5	SF	B	7.9	3	E	39		F	
0005	LEAR	01	0418	0418	0423	N08	E28	7590	10	3.3	5	SF	B	6.1	3	E	12			
0006		01	08422	08442	0852	S12	E76	7592	10	7.1	10	SF	C	2.2			24			
	SVTO	01	0842	0844	0854	S12	E77	7592	10	7.2	12	SF	C	2.2	3	E	22			
	LEAR	01	0844	0846	0849	S13	E76	7592	10	7.1	5	SF			3	E	26			
0007	RAMY	01	1121	1128	1133	S05	E63	7592	10	6.2	12	SF	C	1.3	3	E	23			
0008	RAMY	01	1138	1149	1208	S09	E68	7592	10	6.6	30	SF			3	E	41		F	
0009	RAMY	01	1208	1209	1214	S09	E68	7592	10	6.6	6	SF			3	E	32			
		01	1307		1323	No Flare Patrol														
		01	1326		1342	No Flare Patrol														
		01	1356		1401	No Flare Patrol														
0010	HOLL	01	1542	1553	1604	S13	E69	7592	10	6.9	22	SF			3	E	15			
0011		01	16151	16161	1628	N08	E22	7590	10	3.3	13	SF					20		F	
	HOLL	01	1615	1616	1634	N08	E21	7590	10	3.2	19	SF			3	E	21		F	
	RAMY	01	1616	1617	1622	N08	E22	7590	10	3.3	6	SF			3	E	18			
0012	HOLL	01	1734	1744	1809	S14	E71	7592	10	7.1	35	SF			3	E	25			
0013	HOLL	01	1743	1745	1808	N07	E20	7590	10	3.2	25	SF	B	9.5	3	E	23		FH	
0014	HOLL	01	2025	2031	2039	N08	E28	7590	10	4.0	14	SF	B	6.6	3	E	12		FH	
0015		01	23474	2353	2418	S15	E67	7592	10	7.1	31	1F	C	8.5			104	3.2	DFY	
	HOLL	01	2347	2353	2353D	S14	E64	7592	10	6.8	6D	SN			3	E	89		F	
	LEAR	01	2348	2353	2425	S14	E69	7592	10	7.2	37	1F	C	8.5	3	E	108			
	VORO	01	2351	2353	2410	S16	E67	7592	10	7.1	19	1F			2	C	2353	116	3.2	DY
0016	LEAR	02	0214	0216	0219	S14	E67	7592	10	7.1	5	SF			3	E	27			
0017	WATU	02	0223	0225	0230	N18	E18	7590	10	3.5	7	SF				C	0225	20	0.2	D
0018	LEAR	02	0224	0225	0231	N09	E16	7590	10	3.3	7	SF			3	E	18			
0019	LEAR	02	0453	0453	0457	N08	E23	7590	10	3.9	4	SF	B	7.6	3	E	30			
0020	LEAR	02	0625	0628	0636	S15	E62	7592	10	7.0	11	SF			3	E	22			
0021		02	06286	06327	0647	N10	E24	7590	10	4.1	19	SN	M	1.4			79	1.2	DE	
	LEAR	02	0628	0632	0649	N10	E24	7590	10	4.1	21	SN	M	1.4	3	E	74		E	
	SVTO	02	0630	0639	0651	N11	E24	7590	10	4.1	21	SN			3	E	28			
	WATU	02	0631	0634	0641	N10	E23	7590	10	4.0	10	SN				C	0634	50	0.6	D
	TACH	02	0634	0634	0647	N10	E24	7590	10	4.1	13	SB			3	C	0634	163	1.8	D
0022	LEAR	02	0656	0658	0700	S15	E61	7592	10	6.9	4	SF			3	E	11			
0023	LEAR	02	0706	0707	0712	S15	E63	7592	10	7.1	6	SF			3	E	27			
0024		02	07401	07403	0802	N08	E14	7590	10	3.4	22	1B	C	6.5			209	3.0	EFVZ	
	LEAR	02	0740	0740	0757	N08	E14	7590	10	3.4	17	1N	C	6.5	3	E	170			
	WATU	02	0740	0741	0804	N07	E14	7590	10	3.4	24	SB				C	0741	150	1.6	E
	ISTA	02	0741		0800	N09	E12	7590	10	3.2	19	2B								V
	TACH	02	0741	0743	0805	N09	E15	7590	10	3.4	24	1B			3	C	0743	408	4.3	VZF
	SVTO	02	0745E	0747U	0804D	N08	E14	7590	10	3.4	19D	1N			3	E	108			F

H α SOLAR FLARES

5
Oct 93

OCTOBER 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0025	LEAR	02	0808	0808	0810	N10 E17	7590	10	3.6	2	SF	B	8.0	3	E		16	F	
0026	LEAR	02	0900	0902	0908	S15 E60	7592	10	6.9	8	SF	B	9.5	3	E		53		
0027	LEAR	02	0909	0918	0924	S15 E60	7592	10	6.9	15	SF	C	1.1	3	E		22		
0028	RAMY	02	1212	1212	1226	N10 E21	7590	10	4.1	14	SN	C	5.0	3	E		56	F	
		02	1256		1326	No Flare Patrol													
0029	RAMY	02	1409	1411	1420	N11 E14	7590	10	3.6	11	SF	B	9.9	3	E		48	F	
		02	1431		1434	No Flare Patrol													
0030	HOLL	02	1611	1611	1620	N07 E08	7590	10	3.3	9	SF			3	E		14	F	
0031	HOLL	02	1704	1719	1822D	N11 E13	7590	10	3.7	78D	SF			3	E		32	F	
0032	HOLL	02	1922	1923	1928	N08 E07	7590	10	3.3	6	SF			3	E		14	F	
0033	LEAR	02	2351	2352	2356	N10 E08	7590	10	3.6	5	SF			3	E		13		
0034	LEAR	03	0015	0017	0024	N09 E13	7590	10	4.0	9	SF	C	1.2	3	E		19		
0035	LEAR	03	0034	0036	0056	N15 E05	7590	10	3.4	22	SF			3	E		42	F	
0036	LEAR	03	0110	0114	0119	N10 E08	7590	10	3.6	9	SF	B	6.9	3	E		18		
0037	LEAR	03	0232	0232	0238	N09 E12	7590	10	4.0	6	SF			3	E		15		
0038	LEAR	03	0252	0257	0317	N09 E04	7590	10	3.4	25	SF	C	1.4	3	E		51	F	
0039		03	0323*	0328*	0346	N07 E02	7590	10	3.3	23	SF	B	9.1				42	0.3	D
	LEAR	03	0323	0328	0349	N07 E02	7590	10	3.3	26	SF	B	9.1	3	E		55		
	WATU	03	0334	0339	0342	N07 E03	7590	10	3.4	8	SF			C	0339	30	0.3	D	
0040	LEAR	03	0351	0351	0357	N10 E06	7590	10	3.6	6	SF			3	E		25		
0041	LEAR	03	0651	0700	0711	N10 E04	7590	10	3.6	20	SF			3	E		31	F	
0042	TACH	03	0726	0728	0731	N10 W34	7595	09	30.7	5	SB			3	C	0728	47	0.6	D
0043	LEAR	03	0813	0817	0840	N08 W02	7590	10	3.2	27	SF	B	6.3	3	E		35	F	
0044	ISTA	03	0852		0902	N05 W13	7594	10	2.4	10	SN							G	
0045		03	0907	0930	0934	N10 E01	7590	10	3.4	27	SB	C	8.6				131	EF	
	ISTA	03	0907		0920	N10 E03	7590	10	3.6	13	SB							E	
	LEAR	03	0907	0930	0947	N08 W02	7590	10	3.2	40	1B	C	8.6	3	E		181	FE	
	SVTO	03	0931E	0931U	1005D	N12 E01	7590	10	3.5	34D	SB			3	E		81	FE	
		03	1007		1059	No Flare Patrol													
0046	RAMY	03	1204	1207	1209	N08 W01	7590	10	3.4	5	SF	B	9.8	3	E		10	F	
0047	RAMY	03	1216	1221	1231	N11 E02	7590	10	3.7	15	SF	B	8.4	3	E		30	F	
0048		03	1243	1244	1312	N08 W03	7590	10	3.3	29	SN	C	3.0				34	EF	
	RAMY	03	1243	1244	1313	N08 W03	7590	10	3.3	30	SN	C	3.0	3	E		58	FE	
	SVTO	03	1304E	1305U	1312	N07 W03	7590	10	3.3	8D	SF			3	E		11		
0049	RAMY	03	1530	1534	1538	N09 W02	7590	10	3.5	8	SF	C	1.0	3	E		15	FH	
0050	RAMY	03	2029	2034	2057	N10 E04	7590	10	4.1	28	1N			3	E		159	EF	
0051	HOLL	03	2029	2034	2058	N11 W03	7590	10	3.6	29	1N	C	7.0	3	E		152	FH	
0052	HOLL	03	2221	2221	2224	N09 W05	7590	10	3.5	3	SF			3	E		17		

6
Oct 93H α SOLAR FLARES

OCTOBER 1993

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
							Region	Mo Day							Apparent (10-6 Disk)	Corr (Sq Deg)	
0053	HOLL	03	2254	2256	2303	N08 W08	7590	10	3.3	9	SF	3	E		17		
0054	LEAR	03	2318	2321	2328	N09 W06	7590	10	3.5	10	SF	3	E		32		F
0055	04	00331	0036*	0110	N08 W11	7590	10	3.2	37	SF C 1.2					62	0.8	EF1Y
	VORO	04	0033	0036	0106	N08 W12	7590	10	3.1	33	SF	2	C	0036	81	0.8	E1Y
	LEAR	04	0034	0047	0114	N07 W10	7590	10	3.3	40	SF C 1.2	3	E		43		F
0056	LEAR	04	0132	0134	0148	S15 E39	7592	10	7.0	16	SF B 9.9	3	E		27		F
0057	SVTO	04	0725	0725	0728	N07 W14	7590	10	3.3	3	SF	3	E		15		
0058	SVTO	04	0930	0931	0938	S20 W49	7593	09	30.6	8	SF B 4.2	3	E		13		
	04	1248		1258	No Flare Patrol												
0059	KANZ	04	1307	1307	1311	N08 W18	7590	10	3.2	4	SF	2	C				
0060	04	13351	13351	1340	N08 W12	7590	10	3.7	5	SF B 4.3					21		F
	KANZ	04	1335	1335	1343	N09 W12	7590	10	3.7	8	SF	2	C				
	RAMY	04	1336	1336	1338	N08 W11	7590	10	3.7	2	SF B 4.3	3	E		21		F
	04	1614		1952	No Flare Patrol												
	04	2037		2039	No Flare Patrol												
0061	HOLL	04	2054	2059	2119	N09 W22	7590	10	3.2	25	1F C 2.2	3	E		118		F
0062	HOLL	04	2057	2105	2118	S15 E28	7592	10	7.0	21	SF	3	E		36		
0063	CATA	05	0709	0709	0716	N05 W66	7595	09	30.4	7	SN	1	C	0709	28		
0064	05	08501	0854	0858	S14 E22	7592	10	7.0	8	SF B 8.5					20		F
	KANZ	05	0850	0854	0858	S16 E22	7592	10	7.0	8	SF	2	C				
	SVTO	05	0851	0854	0857	S13 E22	7592	10	7.0	6	SF B 8.5	3	E		20		F
0065	05	11221	1123*	1136	N11 W34	7590	10	2.9	14	SF					29		EF
	KANZ	05	1122	1134	1142	N11 W33	7590	10	3.0	20	SF	2	C				
	RAMY	05	1123	1123	1128	N11 W34	7590	10	2.9	5	SF	3	E		19		F
	SVTO	05	1123	1123	1137	N10 W35	7590	10	2.8	14	SF	3	E		39		FE
0066	RAMY	05	1131	1132	1138	N11 W34	7590	10	2.9	7	SF	3	E		24		F
0067	05	12002	1204*	1214	N11 W16	7590	10	4.3	14	SF C 1.0					108	0.9	FH
	LARI	05	1200	1204	1219	N11 W12	7590	10	4.6	19	SF		P				
	KANZ	05	1202		1202	N11 W17	7590	10	4.2	19	SF	2	C				
	RAMY	05	1202	1205	1210	N10 W17	7590	10	4.2	8	1F	3	E		146		F
	SVTO	05	1202	1205	1212	N10 W18	7590	10	4.1	10	SF C 1.0	3	E		93		FH
	CATA	05	1213E	1215	1226	N11 W18	7590	10	4.1	130	SN	1	C	1215	84	0.9	
0068	KANZ	05	1326	1330	1334	S14 E15	7592	10	6.7	8	SF	2	C				
0069	KANZ	05	1358	1358	1402	N11 W36	7590	10	2.9	4	SF	2	C				
0070	SVTO	05	1529	1531	1548D	N04 W72	7595	09	30.3	19D	SF	3	E		18		
0071	HOLL	05	1601	1634	1728	S14 E17	7592	10	6.9	87	SF B 9.5	3	E		40		FH
	05	1922		1939	No Flare Patrol												
	05	1952		2026	No Flare Patrol												
0072	05	2303*	2305*	2348	S14 E12	7592	10	6.9	45	SF B 9.4					59	1.0	EF1Y
	LEAR	05	2303	2305	2349	S14 E11	7592	10	6.8	46	SF	3	E		35		F
	HOLL	05	2303	2316	2354	S14 E11	7592	10	6.8	51	SF B 9.4	3	E		51		F
	VORO	05	2314	2324	2340	S13 E14	7592	10	7.0	26	SF	2	C	2324	90	1.0	E1YT
0073	VORO	06	0108	0114	0127	S12 E13	7592	10	7.0	19	SF	2	C	0114	54	0.6	D1TY
0074	06	0528	0528	0536	S12 E04	7592	10	6.5	8	SN B 9.1					22		Y
	LEAR	06	0528	0528	0537	S12 E03	7592	10	6.4	9	SF B 9.1	3	E		25		
	SVTO	06	0530E	0530U	0536	S13 E05	7592	10	6.6	60	SN	2	E		20		Y

H α SOLAR FLARES

7
Oct 93

OCTOBER 1993

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CHD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
							USAF Region								Mo	Day		Apparent (10-6 Disk)	Corr (Sq Deg)
0075		06 08263	08282	0835	S13	E13	7592	10	7.3	9	SF C 1.2				20		H
	LARI	06 0826	0830	0838	S13	E13	7592	10	7.3	12	SF		P				
	SVTO	06 0828	0828	0832	S13	E13	7592	10	7.3	4	SF		3 E		15		H
	LEAR	06 0829	0829	0834	S13	E12	7592	10	7.2	5	SF C 1.2		3 E		24		H
0076	CATA	06 1216E	1225	1235	N09	W29	7590	10	4.3	19D	SN		1 C	1225	45	0.5	
0077		06 1400	1401	1410	S14	E04	7592	10	6.9	10	SF				32	0.5	D
	HTPR	06 1400E		1409	S15	E03	7592	10	6.8	9D	SF		C	1400	50	0.5	D
	SVTO	06 1400	1401	1411	S14	E05	7592	10	7.0	11	SF		3 E		13		
		06 1633		1639	No Flare Patrol												
		06 1649		1718	No Flare Patrol												
0078	HOLL	06 1725	1725	1732	N15	W44	7590	10	3.4	7	SF C 1.6		2 E		25		F
		06 1742		1750	No Flare Patrol												
		06 1820		2057	No Flare Patrol												
		06 2127		2146	No Flare Patrol												
		06 2223		2239	No Flare Patrol												
0079	LEAR	07 0412	0413	0434	S14	W03	7592	10	6.9	22	SF C 2.6		3 E		59		F
0080	SVTO	07 0858E	0904U	0910D	N11	W50	7590	10	3.6	12D	SF		3 E		12		F
0081	SVTO	07 0919	0920	0926	S15	W06	7592	10	6.9	7	SF		3 E		11		F
0082		07 0917*	09322	0949	N14	W54	7590	10	3.3	32	SF				31		F
	SVTO	07 0917	0934	0955	N14	W54	7590	10	3.3	38	SF		3 E		29		F
	LEAR	07 0930	0932	0943	N15	W55	7590	10	3.2	13	SF		3 E		33		F
0083	SVTO	07 1028	1031	1035	N15	W53	7590	10	3.4	7	SF		3 E		14		F
		07 1241		1244	No Flare Patrol												
		07 1303		1424	No Flare Patrol												
0084	HOLL	07 1441	1443	1451	N13	W54	7590	10	3.5	10	SF		2 E		35		F
0085		07 1453	14551	1522	S14	W08	7592	10	7.0	29	1N C 3.3				160		EF
	SVTO	07 1453	1455	1520	S14	W07	7592	10	7.1	27	1N		3 E		149		FE
	HOLL	07 1453	1456	1525	S14	W09	7592	10	6.9	32	1F C 3.3		3 E		170		F
		07 1604		1629	No Flare Patrol												
		07 1642		2048	No Flare Patrol												
		07 2128		2232	No Flare Patrol												
0086	LEAR	08 0427	0431	0437	S17	W17	7592	10	6.9	10	SF C 1.1		3 E		26		F
0087		08 08362	0840	0848	S15	W24	7592	10	6.5	12	SN				54	0.7	D
	ISTA	08 0836		0845	S15	W24	7592	10	6.5	9	SN						D
	BUCA	08 0838	0840	0850	S15	W25	7592	10	6.5	12	SF		C	0840	54	0.7	D
0088		08 1409	14183	1442	N10	W66	7590	10	3.6	33	1N C 5.5				124		DEFI
	HTPR	08 1409E	1418	1425D	N12	W68	7590	10	3.5	16D	1B		C	1418	200		DI
	HOLL	08 1409	1421	1443	N11	W63	7590	10	3.8	34	1N C 5.5		3 E		109		FE
	SVTO	08 1423E	1423U	1440	N08	W67	7590	10	3.6	17D	SN		2 E		62		F
		08 1941		1946	No Flare Patrol												
0089	LEAR	09 0012	0019	0038	S17	W30	7592	10	6.7	26	SF C 1.5		3 E		25		F
0090		09 0643	0643	0646	S16	W35	7592	10	6.6	3	SN B 5.8				37	0.7	D
	MITK	09 0643	0643	0645	S14	W35	7592	10	6.6	2	SN		C	0643	55	0.7	D
	LEAR	09 0643	0643	0647	S17	W35	7592	10	6.6	4	SF B 5.8		3 E		19		
0091	ISTA	09 0732		0743	N12	W74	7590	10	3.7	11	SN						D

8
Oct 93

H α SOLAR FLARES

OCTOBER 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Imp See	Obs Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0092	09	08055	0810	0833	N12 W74	7590	10	3.8	28	1N	M	1.1					68		EF	
	BUCA	09	0805	0810	0830	N13 W75	7590	10	3.7	25	1N				C	0810	107		E	
	LEAR	09	0809	0810	0818	N11 W78	7590	10	3.5	9	SF	M	1.1	3	E		29			
	ISTA	09	0810		0852	N11 W70	7590	10	4.1	42	1N								F	
0093	LEAR	09	0820	0821	0823	N10 W78	7590	10	3.5	3	SF			3	E			14		
0094	09	08052	0808	0822	S14 W28	7592	10	7.2	17	1N							64	0.8	F	
	ISTA	09	0805		0830	S14 W27	7592	10	7.3	25	1N								F	
	BUCA	09	0807	0808	0813	S14 W30	7592	10	7.1	6	SF				C	0808	64	0.8		
0095	RAMY	09	1804	1826	1837	S18 W39	7592	10	6.8	33	SF	C	1.4	3	E			34		F
0096	HOLL	09	1909	1913	1935	N11 W78	7590	10	3.9	26	3B	M	3.5	3	E			733		H
0097	10	0023	00236	0032	S14 W44	7592	10	6.7	9	1N	B	6.7					392	11.5	F	
	LEAR	10	0023	0023	0032	S15 W45	7592	10	6.6	9	SF	B	6.7	3	E			20		F
	MITK	10	0023	0029	0031	S12 W43	7592	10	6.8	8	2N				C	0029	764	11.5		
0098	LEAR	10	0417	0417	0427	S16 W46	7592	10	6.7	10	SF	B	7.7	3	E			35		
0099	KANZ	10	0956	0956	1016	S26 E54	7597	10	14.6	20	SF			2	C					
		10	2108		2137	No Flare Patrol														
0100	HOLL	11	1725	1726	1729	S23 E40	7597	10	14.8	4	SF	B	5.0	3	E			13		
		11	1820		1907	No Flare Patrol														
0101	HOLL	11	2152	2152	2157	S24 E37	7597	10	14.8	5	SF			3	E			33		
0102	11	22592	23012	2307	S24 E37	7597	10	14.8	8	SF	B	4.0						27		
	HOLL	11	2259	2301	2306	S24 E37	7597	10	14.8	7	SF	B	4.0	3	E			39		
	LEAR	11	2301	2303	2308	S23 E37	7597	10	14.8	7	SF			3	E			15		
0103	MITK	12	0112	0112	0114	S26 E33	7597	10	14.6	2	SN				C	0112	27	0.4	D	
0104	HOLL	12	2029	2112	2257	S21 E23	7597	10	14.6	148	SF	C	1.5	3	E			87		F
0105	ISTA	13	0850		0908	S13 W76	7592	10	7.6	18	SF									DG
0106	SVTO	13	1303	1315	1326	S21 E15	7597	10	14.7	23	SF	B	7.1	3	E			35		F
		14	0507		0511	No Flare Patrol														
		14	1206		1207	No Flare Patrol														
		14	2024		2059	No Flare Patrol														
		14	2200		2207	No Flare Patrol														
		15	0337		0404	No Flare Patrol														
		15	0406		0410	No Flare Patrol														
		15	0413		0417	No Flare Patrol														
		15	0435		0444	No Flare Patrol														
0107	HTPR	15	0828E	0843	0852D	N05 E02	7601	10	15.5	24D	1N				C	0843	260	2.6		
0108	ISTA	15	0938		1012	N05 E02	7601	10	15.5	34	1N									F
0109	KHAR	15	1040U	1048	1058	N06 E01	7601	10	15.5	18U	SB			2	P					L
0110	RAMY	15	1207	1207	1224	N04 E01	7601	10	15.6	17	SF	B	2.4	3	E			10		F
0111	RAMY	15	1258	1300	1322	N04 E00	7601	10	15.5	24	SF	B	1.9	3	E			17		
0112	SVTO	16	0815	0817	0825	S21 W22	7597	10	14.6	10	SF	B	1.4	3	E			12		
0113	16	0919*	0924*	1004	S20 W25	7597	10	14.5	45	SN	C	1.3					147	3.5	FH	
	SVTO	16	0919	0924	0949	S21 W24	7597	10	14.5	30	SF	C	1.3	3	E			80		FH
	LEAR	16	0920	0932	0953D	S20 W25	7597	10	14.5	33D	SF			3	E			80		F
	CATA	16	0931E	0931	0931D	S21 W24	7597	10	14.5	33D	1B			2	C	0931	281	3.5		
	LARI	16	0939	0939	1020	S18 W27	7597	10	14.3	41	SF				P					

H α SOLAR FLARES

9
Oct 93

OCTOBER 1993

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
							USAF Region						Mo	Day		(Min)	Opt	Xray	See	Type	(UT)	(10-6 Disk)	Corr (Sq Deg)
0114		16 1401*	1405*	1429	S22	W26	7597	10	14.6	28	SF B 6.9			50		F	
	SVTO	16 1401	1405	1430	S23	W25	7597	10	14.6	29	SF B 6.9	3	E	57		F	
	RAMY	16 1401	1406	1424	S21	W27	7597	10	14.5	23	SF	3	E	49		F	
	HOLL	16 1417	1417	1434	S22	W25	7597	10	14.7	17	SF	3	E	43			
		16 2053		2101	No Flare Patrol												
		16 2106		2249	No Flare Patrol												
0115	RAMY	17 1402	1403	1420	S21	W40	7597	10	14.5	18	SF B 3.9	3	E	24		F	
		17 1759		1814	No Flare Patrol												
		17 1816		1843	No Flare Patrol												
		17 1854		2113	No Flare Patrol												
		17 2147		2204	No Flare Patrol												
0116	WATU	18 0221	0224	0232	N06	W36	7601	10	15.4	11	SN		C	0224	20	0.3	E
0117	ISTA	18 0820		0941	S18	W53	7597	10	14.3	81	SN						CE
0118	HOLL	18 1929	1932	1953	N05	W46	7601	10	15.4	24	SF B 2.6	3	E	32			F
		18 1933		1945	No Flare Patrol												
		18 1949		2058	No Flare Patrol												
		18 2105		2126	No Flare Patrol												
		19 0252		0302	No Flare Patrol												
0119	SVTO	19 0752	0753	0757	S16	E45	7603	10	22.7	5	SF	3	E	19			
0120		19 0846	0846.1	0901	N08	W52	7601	10	15.5	15	SN B 2.8			70		1.9	F
	CATA	19 0846	0846	0903	N10	W53	7601	10	15.4	17	SB	1	C	0846	112	1.9	F
	SVTO	19 0846	0847	0859	N06	W51	7601	10	15.5	13	SF B 2.8	3	E	29			F
		19 1319		1338	No Flare Patrol												
		19 1500		1841	No Flare Patrol												
		19 2009		2212	No Flare Patrol												
0121	LEAR	19 2250	2251	2258	N07	W59	7601	10	15.5	8	SF B 3.0	3	E	33			F
0122	LEAR	19 2303	2303	2311	N07	W60	7601	10	15.5	8	SF	3	E	19			F
0123	LEAR	19 2330	2332	2338	N06	W60	7601	10	15.5	8	SF B 3.3	3	E	55			F
0124	MITK	20 0020	0024	0029	N11	W61	7601	10	15.4	9	SN		C	0024	67	1.4	D
0125	MITK	20 0034	0046	0052	N11	W61	7601	10	15.4	18	SN		C	0046	41	0.8	D
0126	LEAR	20 0329	0340	0402	N07	W63	7601	10	15.4	33	SF B 2.0	3	E	56			
0127	LEAR	20 0610	0614	0621	N07	W65	7601	10	15.4	11	SF B 5.0	3	E	18			
0128		20 0818	0821.1	0829	N06	W65	7601	10	15.5	11	SF C 2.4			44			
	LEAR	20 0818	0822	0829	N06	W66	7601	10	15.4	11	SF C 2.4	3	E	44			
	KANZ	20 0820E	0821	0828D	N07	W64	7601	10	15.5	8D	SF	2	C				
0129		20 0936	1002	1109D	N06	W66	7601	10	15.5	93D	1N			245			,EFHT
	SVTO	20 0936	1002	1109D	N06	W62	7601	10	15.7	93D	SN	3	E	60			F
	KHAR	20 0945E	0958U	1015U	N06	W67	7601	10	15.4	30U	1N	2	P				E,H,T
	HTPR	20 1001E		1027D	N07	W70	7601	10	15.2	26D	N		C	1018	430		
0130	KHAR	20 1050		1105	N05	W66	7601	10	15.5	15	SF	2	V				,DHT
0131	KHAR	20 1106	1108	1111	N06	W67	7601	10	15.4	5	SF	2	V				,HT
0132	KHAR	20 1110		1115	S06	E19	7602	10	21.9	5	SF	2	V				D
0133	KHAR	20 1125		1130D	N05	W66	7601	10	15.5	5D	SF	2	V				,DHT
		20 1226		1234	No Flare Patrol												
		20 1241		1243	No Flare Patrol												

10
Oct 93

H α SOLAR FLARES

OCTOBER 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)	
0134	HOLL	20	1422E	1425	1433	N04	W66	7601	10 15.7	11D	SF	3	E		16		
		20	2004		2223											No Flare Patrol	
0135	HOLL	21	2108	2109	2130	S16	W07	7605	10 21.3	22	SF B 9.1	3	E		27		F
		22	1931		1944											No Flare Patrol	
		22	2007		2218											No Flare Patrol	
0136	ISTA	23	0830E		0837D	N08	W37	7604	10 20.6	7D	1F						E
		23	1218		1224											No Flare Patrol	
0137	RAMY	23	1410	1411	1413	N08	W42	7604	10 20.4	3	SF B 3.3	3	E		13		
		23	2041		2137											No Flare Patrol	
		23	2200		2201											No Flare Patrol	
		24	1318		1321											No Flare Patrol	
0138	HOLL	24	1450	1451	1459	S14	W26	7603	10 22.6	9	SF B 3.4	3	E		22		F
0139	RAMY	25	1413	1413	1421	N07	E61	7608	10 30.2	8	SF B 3.8	3	E		18		F
		25	1812		1859											No Flare Patrol	
0140		25	1948	2000U	2019D	N08	E58	7608	10 30.2	31D	1F C 6.2				82		F
	HOLL	25	1948	2001U	2004D	N08	E59	7608	10 30.2	16D	1F C 6.2	3	E		124		
	RAMY	25	2000E	2000U	2019D	N07	E58	7608	10 30.2	19D	SF	3	E		40		F
		25	2008		2017											No Flare Patrol	
		25	2026		2027											No Flare Patrol	
		25	2051		2100											No Flare Patrol	
		25	2133		2148											No Flare Patrol	
		25	2202		2206											No Flare Patrol	
0141		26	00391	00414	0058	N08	E55	7608	10 30.1	19	SN C 5.9				82	1.2	E
	VORO	26	0039	0042	0059	N10	E57	7608	10 30.3	20	SF		C	0042	88	1.4	
	MITK	26	0039	0045	0058	N05	E54	7608	10 30.1	19	SB		C	0045	95	1.7	E
	WATU	26	0040	0041	0054	N07	E55	7608	10 30.1	14	SF		C	0041	40	0.6	E
	LEAR	26	0040	0041	0059	N08	E55	7608	10 30.1	19	1F C 5.9	3	E		105		
0142	MITK	26	0138	0139	0139	N05	E54	7608	10 30.1	1	SN		C	0139	7	0.1	D
0143	SVTO	26	0726	0727	0734	N10	E53	7608	10 30.3	8	SF B 3.7	3	E		11		F
0144	ATHN	26	1010E	1015	1020	S10	E58		10 30.8	10D	1F	3	V	1015	191	3.0	
0145	RAMY	26	1638	1640	1649	N08	E46	7608	10 30.1	11	SF B 4.7	3	E		40		F
0146	RAMY	26	1727	1732	1734D	N09	E45	7608	10 30.1	7D	SF C 3.6	3	E		93		EF
		26	1821		1825											No Flare Patrol	
		26	1911		1932											No Flare Patrol	
		26	1952		2004											No Flare Patrol	
		26	2114		2214											No Flare Patrol	
0147		27	0633	0640	0651	N10	E38	7608	10 30.1	18	SN C 9.4				80	1.6	UV
	TACH	27	0633	0640	0651	N10	E38	7608	10 30.1	18	SN	3	C	0640	122	1.6	V
	SVTO	27	0640E	0642U	0658D	N09	E37	7608	10 30.0	18D	SN C 9.4	2	E		37		U
0148	ISTA	27	0710		0728	N10	W41		10 24.2	18	SF						E
		27	1011		1047											No Flare Patrol	
0149		27	1130	1132	1142	N10	E36	7608	10 30.2	12	SF C 1.0				20		FU
	RAMY	27	1130	1132	1143	N09	E36	7608	10 30.2	13	SF C 1.0	3	E		15		F
	SVTO	27	1131E	1132U	1141	N11	E37	7608	10 30.3	10D	SF	3	E		26		UF
		27	1914		2044											No Flare Patrol	
		27	2136		2143											No Flare Patrol	

H α SOLAR FLARES

11
Oct 93

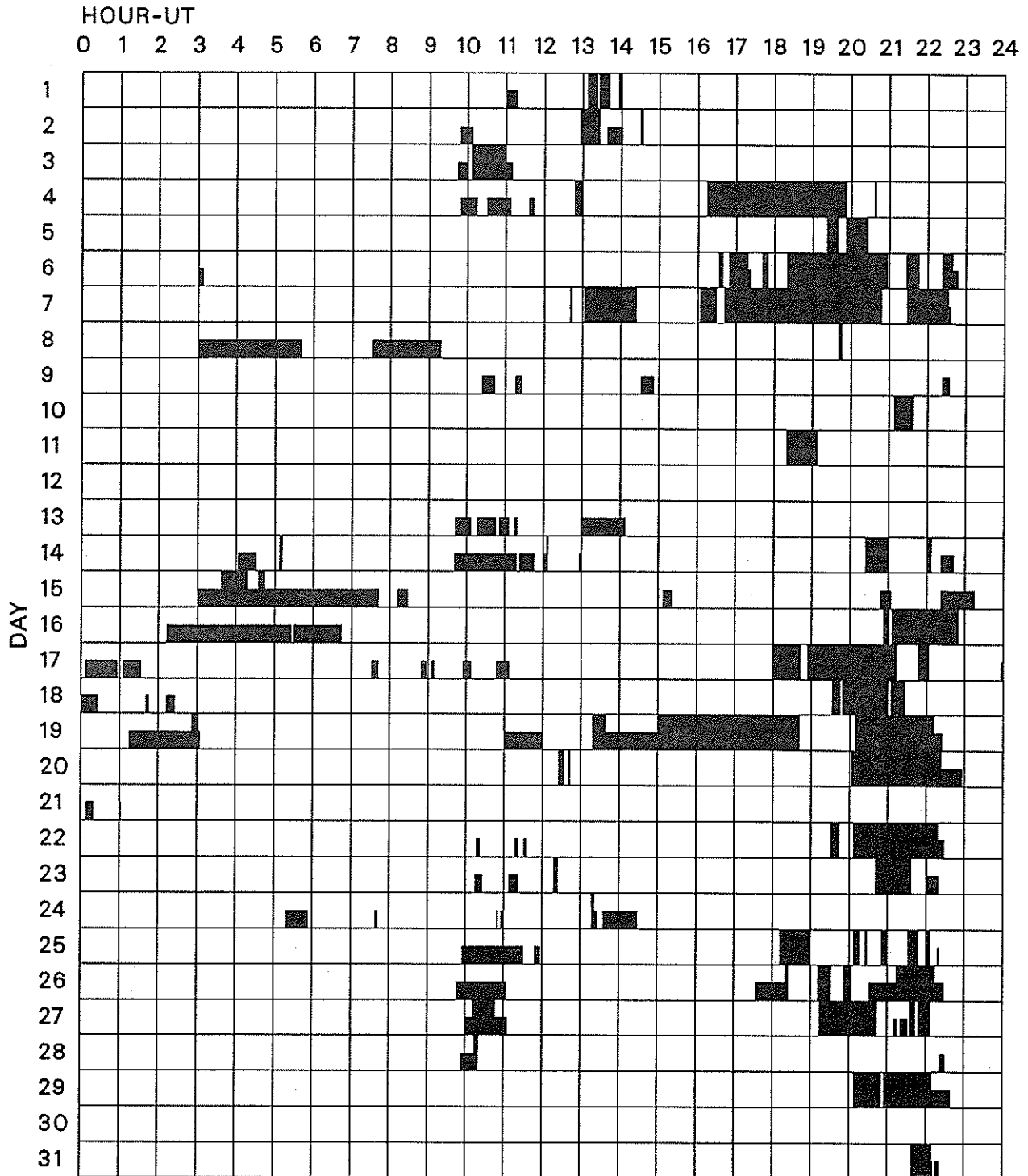
OCTOBER 1993

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
		27	2149	2207	No Flare Patrol												
0150		28	0001	0011	N06	E28	7608	10	30.1	9	SN			38	0.5	DU	
	LEAR	28	0001E	0001	N07	E28	7608	10	30.1	12D	SF	3	E	37		U	
	MITK	28	0001	0002	N06	E29	7608	10	30.2	6	SB		C	0002	40	0.5	D
0151	LEAR	28	0923	0923	N08	E23	7608	10	30.1	14	SF C	1.1	3	E	51		FH
		28	1014	1020	No Flare Patrol												
0152	KANZ	28	1353	1357	N08	E23	7608	10	30.3	12	SF		2	C			
0153		28	2021	2023	N08	E17	7608	10	30.1	11	SF B	4.9			14		F
	HOLL	28	2021	2023	N08	E17	7608	10	30.1	12	SF B	4.9	3	E	17		
	RAMY	28	2021	2024	N09	E17	7608	10	30.1	10	SF		3	E	12		F
0154	WATU	28	2359	2401	N08	E28	7608	10	31.1	14	SN		C	2401	30	0.4	E
0155		29	0803	0807	N08	E11	7608	10	30.2	8	SF				10		H
	KANZ	29	0803	0807	N08	E12	7608	10	30.2	8	SF		2	C			
	SVTO	29	0805	0807	N09	E10	7608	10	30.1	6	SF		3	E	10		H
0156	KANZ	29	1015	1019	N18	W77		10	23.6	28	SF		2	C			
0157	KANZ	29	1155	1155	S08	E83	7613	11	4.7	8	SF		2	C			
		29	2008	2050	No Flare Patrol												
		29	2055	2209	No Flare Patrol												
0158	KANZ	30	1001	1001	S15	E77	7613	11	5.2	8	SF		2	C			
0159	KANZ	30	1021	1029	S16	E73	7613	11	5.0	24	SF		2	C			
0160		30	1201	1205	S10	W74	7610	10	24.9	15	SF B	4.2			37		
	KANZ	30	1201	1205	S11	W75	7610	10	24.8	23	SF		2	C			
	RAMY	30	1204	1205	S10	W72	7610	10	25.1	5	SF B	4.2	3	E	37		
0161	SVTO	30	1421	1422	S10	E73	7613	11	5.1	4	SF		3	E	14		
0162		31	0829	0832	S16	E63	7613	11	5.1	15	SF C	1.1			38		FH
	SVTO	31	0829	0833	S15	E64	7613	11	5.2	10	SF C	1.1	3	E	45		FH
	LEAR	31	0830	0833	S15	E60	7613	11	4.9	7	SF		3	E	32		FH
	KANZ	31	0832	0832	S17	E66	7613	11	5.4	24	SF		2	C			
0163	KANZ	31	1036	1044	S14	E68	7613	11	5.6	20	SF		2	C			
0164		31	1056*	1122*	S21	E36	7612	11	3.2	140	2F C	5.3			240		,FGU
	KANZ	31	1056	1124	S19	E37	7612	11	3.3	164	2F		2	C			U,G
	SVTO	31	1101	1122	S22	E37	7612	11	3.3	131	2F C	5.3	3	E	356		UF
	RAMY	31	1111	1133	S21	E33	7612	11	3.0	104	1F		3	E	124		UF
0165	LARI	31	1124	1124	S12	E34	7612	11	3.0	106	2F			P			
0166		31	1918	1919	N09	W22	7608	10	30.1	6	SF B	3.1			24		F
	RAMY	31	1918	1919	N09	W22	7608	10	30.1	6	SF B	3.1	3	E	19		F
	HOLL	31	1919	1919	N09	W22	7608	10	30.1	5	SF		3	E	28		F
		31	2138	2209	No Flare Patrol												
0167	WATU	31	2343	2347	N11	E49		11	4.7	12	SB		C	2347	20	0.3	D

12
Oct 93

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

OCTOBER 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.

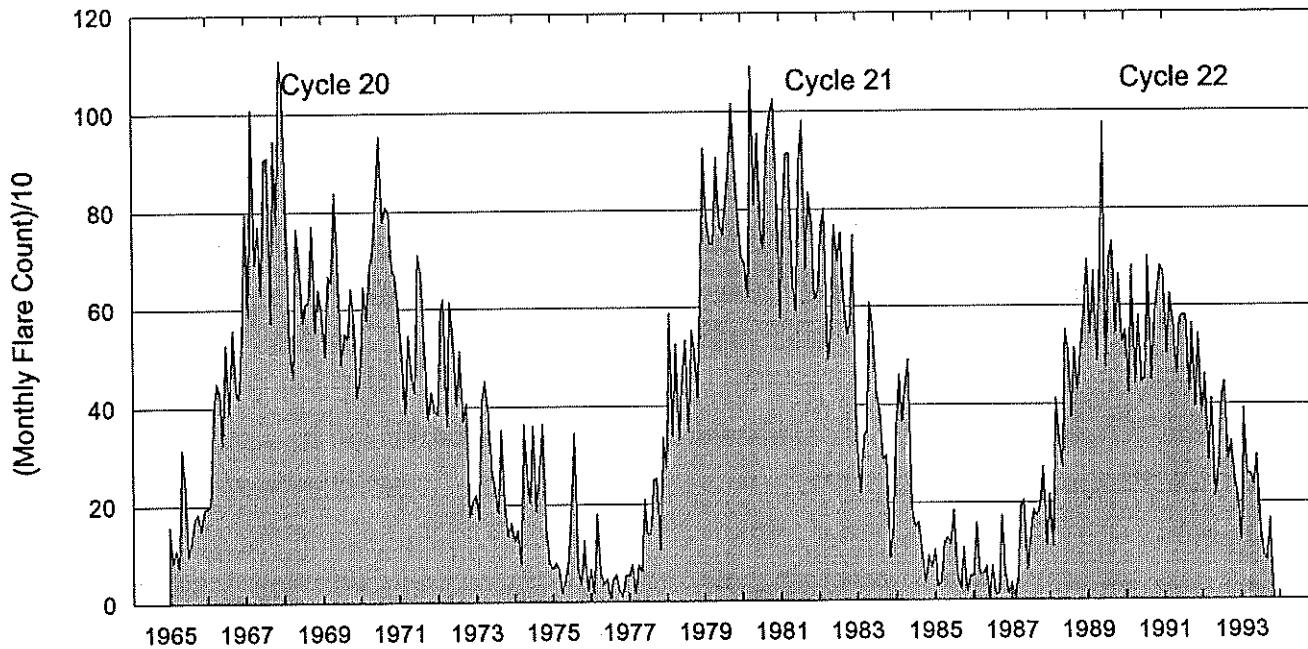
Athens
Bucharest
Catania
Haute Province

Holloman
Istanbul
Kanzelhoehe
Kharkov

Larissa
Learmonth
Mitaka
Ramey

San Vito
Voroshilov
Watukosek

Monthly Counts of Grouped Solar Flares Aug 1965 - Oct 1993



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	1399
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	392	358	262	237	296	154	92	82	167			2161

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

NOTE: Counts for 1993 were updated to reflect the addition of Catania data.

14
Oct 93

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

OCTOBER 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			
01	410	PALE	43 NS	0037.0	0331.0	207.0	170.0			QL=4 ST=2 TYP=1	
	610	PALE	43 NS	0037.0	0043.0U	1403.0	69.0			QL=4 ST=2 TYP=1	
	610	LEAR	43 NS	0040.0	0055.0	218.0	100.0			QL=4 ST=2 TYP=1	
	410	LEAR	43 NS	0054.0	0249.0	361.0	110.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0505.0	0527.0	133.0	140.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0505.0	1322.0	666.0	700.0			QL=4 ST=2 TYP=1	
	33	UPIC	44 NS	0600.0E		600.0D					NOT CALIBRATED
	127	TORN	44 NS	0620.0E		520.0D		450.0			V=1
	204	IZMI	44 NS	0700.0E		300.0D		150.0			
	260	ONDR	44 NS	0720.0E		470.0D					
	245	SGMR	43 NS	1309.0	1322.0	77.0	660.0				QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1310.0E		419.0D		32.0			
	280	CUBA	44 NS	1310.0E		469.0D		17.0			
	245	SGMR	43 NS	1514.0	1554.0	141.0	120.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1711.0	1931.0	652.0	890.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1930.0	1931.0	153.0	800.0				QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2251.0	2251.0U	6.0	130.0				QL=4 ST=2 TYP=1
	245	LEAR	49 GB	0614.0	0615.0	1.0	1400.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0615.0	0615.0	U	1000.0				QL=2 ST=2 TYP=6
	500	HIRA	46 C	0650.5	0651.4	2.0	13.0	7.0			WL
	610	LEAR	8 S	0652.0	0652.0	U	8.0				QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0652.0	0652.0	1.0	520.0				QL=4 ST=2 TYP=6
	410	LEAR	8 S	0652.0	0652.0	U	20.0				QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0652.0	0652.0	1.0	700.0				QL=2 ST=2 TYP=6
	610	SVTO	8 S	0652.0	0652.0	U	11.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0652.0	0652.0	U	50.0				QL=2 ST=2 TYP=3
	245	LEAR	8 S	0712.0	0712.0	1.0	390.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0916.0	0916.0	1.0	140.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0916.0	0916.0	1.0	430.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0916.0	0916.0	U	130.0				QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0916.0	0916.0	U	520.0				QL=2 ST=2 TYP=6
	204	IZMI	41 F	0916.5	0917.0	2.0	400.0				
	245	SGMR	4 S/F	1206.0	1206.0	3.0	55.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1237.0	1237.0	U	180.0				QL=4 ST=3 TYP=3
	410	SGMR	8 S	1253.0	1254.0	1.0	450.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1253.0	1254.0	1.0	400.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1254.0	1254.0	U	360.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1254.0	1254.0	U	240.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1302.0	1303.0	1.0	67.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1346.0	1346.0	2.0	220.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1346.0	1346.0	1.0	250.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1613.8	1616.3	4.7	16.0	8.0			
	245	SGMR	8 S	1614.0	1615.0	2.0	290.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1614.0	1616.0	2.0	35.0				QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1614.0	1616.0	2.0	19.0				QL=4 ST=2 TYP=3
410	SGMR	8 S	1614.0	1615.0	2.0	35.0				QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1614.0	1616.0	3.0	23.0				QL=4 ST=2 TYP=3	
2800	PENT	4 S/F	1614.9	1615.6	2.8	25.2	5.0				
2695	SGMR	8 S	1615.0	1615.0	1.0	37.0				QL=2 ST=2 TYP=3	
410	PALE	8 S	1941.0	1941.0	U	76.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1941.0	1941.0	U	61.0				QL=4 ST=2 TYP=3	
410	PALE	49 GB	2012.0	2013.0	2.0	680.0				QL=4 ST=2 TYP=6	
410	SGMR	49 GB	2012.0	2013.0	1.0	550.0				QL=4 ST=2 TYP=6	
245	SGMR	49 GB	2114.0	2115.0	2.0	2800.0				QL=4 ST=2 TYP=6	
410	PALE	8 S	2115.0	2115.0	2.0	110.0				QL=4 ST=3 TYP=3	
245	PALE	49 GB	2115.0	2115.0	2.0	4200.0				QL=4 ST=2 TYP=6	
410	SGMR	8 S	2115.0	2115.0	1.0	100.0				QL=4 ST=2 TYP=3	
245	SGMR	49 GB	2115.0	2115.0	U	2800.0				QL=4 ST=2 TYP=6	
245	LEAR	49 GB	2232.0	2232.0	1.0	2700.0				QL=4 ST=2 TYP=6	
245	PALE	49 GB	2232.0	2232.0	U	3700.0				QL=4 ST=2 TYP=6	
245	LEAR	8 S	2244.0	2244.0	1.0	390.0				QL=4 ST=2 TYP=3	
2840	PEKG	5 S	2350.0	2352.0	10.0	63.4					
2800	HIRA	3 S	2351.2	2353.3	7.5	180.0	50.0			0	
2800	PENT	3 S	2351.2	2353.5	10.5	62.2	15.0				
8800	LEAR	8 S	2352.0	2353.0	2.0	99.0				QL=4 ST=2 TYP=3	
15400	LEAR	8 S	2352.0	2353.0	1.0	40.0				QL=4 ST=2 TYP=3	
2695	LEAR	8 S	2352.0	2353.0	2.0	52.0				QL=4 ST=2 TYP=3	
4995	LEAR	4 S/F	2352.0	2353.0	3.0	96.0				QL=4 ST=2 TYP=3	
8800	PALE	8 S	2352.0	2353.0	2.0	94.0				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

15
Oct 93

OCTOBER 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		
01	15400	PALE	8 S	2352.0	2353.0	2.0	77.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2352.0	2353.0	2.0	60.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2352.0	2353.0	3.0	91.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	2353.0	2353.0	U	28.0			QL=4 ST=2 TYP=3
02	33	UPIC	44 NS	0600.0E	0740.0U	600.0D				
	127	TORN	44 NS	0620.0E		520.0D		110.0		V=1
	245	SVTO	43 NS	0638.0	0706.0	107.0	1500.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0640.0	0649.0	104.0	920.0			QL=4 ST=2 TYP=1
	610	SVTO	43 NS	0640.0	0000.0	1040.0	73.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0700.0E		300.0D		140.0		
	260	ONDR	44 NS	0720.0E		415.0D	633.0			
	410	SGMR	43 NS	1228.0	1228.0	7.0	55.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1235.0	1235.0	71.0	430.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1955.0	2014.0	245.0	83.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	2012.0	2254.0	470.0	410.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2220.0	0636.0U	705.0	520.0			QL=4 ST=3 TYP=1
	245	LEAR	8 S	0300.0	0300.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0324.0	0324.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0514.0	0515.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0554.0	0554.0	U	150.0			QL=4 ST=2 TYP=3
	8400	BERN	47 GB	0628.8	0631.9	34.6	76.4			
	11800	BERN	47 GB	0628.9	0631.8	14.2	87.7			
	19600	BERN	47 GB	0629.6	0631.9	4.8	58.7			
	410	SVTO	49 GB	0630.0	0631.0	2.0	950.0			QL=4 ST=2 TYP=6
	500	HIRA	46 C	0630.7	0631.5	2.5	25.0	10.0		WL
	8800	LEAR	8 S	0631.0	0631.0	2.0	380.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0631.0	0631.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0631.0	0632.0	4.0	140.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0631.0	0631.0	1.0	720.0			QL=4 ST=2 TYP=6
	1415	LEAR	4 S/F	0631.0	0631.0	4.0	73.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0631.0	0631.0	2.0	290.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0631.0	0631.0	2.0	250.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0631.0	0631.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0631.0	0631.0	3.0	300.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0631.0	0631.0	2.0	320.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0631.0	0631.0	2.0	220.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0631.0	0632.0	4.0	69.0			QL=4 ST=2 TYP=3
	2800	HIRA	45 C	0631.0	0631.7	13.0	105.0	70.0		O
	2840	PEKG	3 S	0632.0	0633.5	25.0	120.5			
	245	LEAR	49 GB	0706.0	0706.0	1.0	1100.0			QL=4 ST=2 TYP=6
	536	ONDR	42 SER	0720.0	0740.0	70.0	86.0			
	8400	BERN	46 C	0728.4	0740.1	26.6	35.8			
	11800	BERN	46 C	0729.8	0740.0	26.7	47.1			
	204	IZMI	45 C	0737.0	0740.0	10.0	2500.0			
	33	UPIC	48 C	0737.7	0740.0U	7.7				
	19600	BERN	3 S	0738.6	0740.1	5.9	37.6			
	15400	LEAR	4 S/F	0739.0	0740.0	7.0	460.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0739.0	0740.0	7.0	64.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0739.0	0740.0	3.0	170.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0739.0	0740.0	7.0	310.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0739.0	0740.0	7.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	49 GB	0739.0	0740.0	2.0	560.0			QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0739.0	0739.0	7.0	250.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0739.0	0739.0	3.0	1200.0			QL=4 ST=2 TYP=6
	15400	SVTO	4 S/F	0739.0	0740.0	7.0	450.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0739.0	0739.0	2.0	270.0			QL=4 ST=2 TYP=3
8800	SVTO	8 S	0739.0	0740.0	1.0	170.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	0739.0	0740.0	2.0	280.0			QL=4 ST=2 TYP=3	
1415	SVTO	49 GB	0739.0	0740.0	2.0	520.0			QL=4 ST=2 TYP=6	
4995	SVTO	8 S	0739.0	0740.0	1.0	100.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0739.0	0739.0	1.0	1300.0			QL=2 ST=2 TYP=6	
2840	PEKG	3 S	0739.0	0741.5	11.0	82.1				
127	TORN	4 S/F	0739.2	0740.1	6.2	19000.0	760.0			
3013	IZMI	42 SER	0739.5	0740.2	10.0	66.0				
500	HIRA	42 SER	0739.5	0739.8	6.0	45.0			WR	
808	ONDR	8 S	0740.0	0740.0	2.0					
2695	SVTO	8 S	0740.0	0740.0	U	66.0			QL=4 ST=2 TYP=3	
808	ONDR	45 C	0828.0	0832.0	5.0					

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

OCTOBER 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		
02	204	IZMI	7 C	1034.5	1034.6	0.4	40.0	20.0		
	245	SGMR	8 S	1116.0	1118.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1116.0	1121.0	5.0	180.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1116.2	1116.7	4.0				
	204	IZMI	41 F	1116.5	1118.5	2.5	320.0			
	11800	BERN	3 S	1204.9	1212.0	29.8	13.7			
	8400	BERN	3 S	1204.9	1212.2	29.5	18.9			
	3000	ONDR	3 S	1210.5	1211.1	5.0	174.0			
	4995	SGMR	4 S/F	1211.0	1212.0	4.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1211.0	1212.0	2.0	89.0			QL=2 ST=3 TYP=3
	245	SGMR	8 S	1211.0	1211.0	2.0	300.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1211.0	1212.0	2.0	86.0			QL=2 ST=3 TYP=3
	1415	SGMR	8 S	1211.0	1212.0	2.0	110.0			QL=4 ST=3 TYP=3
	410	SGMR	8 S	1211.0	1212.0	2.0	270.0			QL=4 ST=3 TYP=3
	610	SGMR	49 GB	1211.0	1212.0	3.0	990.0			QL=4 ST=3 TYP=6
	2695	SVTO	8 S	1211.0	1212.0	2.0	87.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1211.0	1211.0	U	240.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	1211.0	1212.0	2.0	240.0			QL=4 ST=3 TYP=3
	4995	SVTO	8 S	1211.0	1212.0		120.0			QL=4 ST=3 TYP=3
	1415	SVTO	8 S	1211.0	1212.0	2.0	110.0			QL=4 ST=3 TYP=3
	610	SVTO	8 S	1211.0	1212.0	2.0	440.0			QL=4 ST=3 TYP=3
	536	ONDR	42 SER	1211.0	1212.0	59.0	489.0			
	15400	SGMR	8 S	1212.0	1212.0	U	42.0			QL=2 ST=3 TYP=3
	127	TORN	4 S/F	1405.8	1406.4	3.0	1200.00	340.0		
	245	SGMR	8 S	1408.0	1409.0	2.0	360.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1408.0	1408.0	5.0	39.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1408.0	1409.0	1.0	71.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1409.0	1409.0	1.0	390.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1519.0	1519.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1519.0	1519.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1742.0	1744.0	3.0	140.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1743.0	1744.0	3.0	150.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1744.0	1744.0	2.0	60.0			QL=4 ST=2 TYP=3
610	SGMR	8 S	1744.0	1744.0	1.0	63.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1918.0	1919.0	1.0	100.0			QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1918.0	1919.0	3.0	130.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1930.0	1931.0	1.0	51.0			QL=4 ST=3 TYP=3	
245	PALE	4 S/F	1954.0	1957.0	3.0	50.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1955.0	1957.0	2.0	54.0			QL=4 ST=2 TYP=3	
03	610	SGMR	43 NS	0437.0	2044.0	1010.0	65.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0517.0	0931.0	650.0	720.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0620.0E		520.00				V=1
	204	IZMI	44 NS	0700.0E		300.00		180.0		
	260	ONDR	44 NS	0720.0E		460.00				
	33	UPIC	43 NS	0730.5		437.5				
	245	SGMR	43 NS	1103.0	1138.0U	777.0	110.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1510.0	1510.0	20.0	89.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1612.0	2104.0	348.0	670.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1827.0	1836.0	26.0	150.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1931.0	1934.0	51.0	220.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	2035.0	2032.0	373.0	270.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2035.0	2107.0	446.0	850.0			QL=4 ST=2 TYP=1
	610	SGMR	43 NS	2037.0	2044.0	50.0	65.0			QL=4 ST=3 TYP=1
	410	SGMR	43 NS	2038.0	2044.0	82.0	140.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2219.0	2352.0U	707.0	350.0			QL=4 ST=2 TYP=1
	610	LEAR	4 S/F	0319.0	0320.0	3.0	150.0			QL=4 ST=3 TYP=3
	245	LEAR	4 S/F	0319.0	0320.0	3.0	490.0			QL=2 ST=2 TYP=3
	410	LEAR	4 S/F	0319.0	0320.0	3.0	220.0			QL=4 ST=3 TYP=3
	500	HIRA	46 C	0319.8	0320.5	2.5	50.0	20.0		WL
	410	PALE	8 S	0320.0	0320.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0320.0	0320.0	U	710.0			QL=4 ST=2 TYP=6
	2800	HIRA	2 S/F	0320.1	0321.1	6.5	16.0	5.0		0
245	LEAR	8 S	0732.0	0732.0	U	290.0			QL=2 ST=2 TYP=3	
3013	IZMI	5 S	0815.0	0816.3	6.0	6.0	3.0			
204	IZMI	45 C	0815.0	0815.3	1.0	1000.0				
245	SVTO	8 S	0816.0	0816.0	U	430.0			QL=4 ST=2 TYP=3	
410	SVTO	4 S/F	0816.0	0816.0	944.0	58.0			QL=4 ST=1 TYP=3	
410	SVTO	8 S	0817.0	0818.0	1.0	58.0			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

17
Oct 93

OCTOBER 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		
03	2840 PEKG	5 S	0900.0	0906.6	15.0	65.0			
	410 LEAR	4 S/F	0903.0	0906.0	8.0	91.0			
	4995 LEAR	4 S/F	0903.0	0906.0	8.0	250.0			QL=4 ST=2 TYP=3
	15400 LEAR	4 S/F	0903.0	0906.0	8.0	220.0			QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0903.0	0906.0	8.0	40.0			QL=4 ST=2 TYP=3
	11800 BERN	3 S	0904.7	0906.9	10.1	43.8			
	19600 BERN	3 S	0904.9	0906.8	6.2	13.9			
	8400 BERN	47 GB	0905.0	0906.8	10.6	51.6			
	8800 LEAR	4 S/F	0906.0	0906.0	5.0	290.0			QL=4 ST=2 TYP=3
	2695 LEAR	4 S/F	0906.0	0907.0	4.0	93.0			QL=4 ST=2 TYP=3
	245 LEAR	49 GB	0906.0	0906.0	1.0	4300.0			QL=2 ST=2 TYP=6
	1415 LEAR	8 S	0906.0	0906.0	2.0	77.0			QL=4 ST=2 TYP=3
	808 ONDR	4 S/F	0906.0	0907.0	6.0				
	245 SVTO	49 GB	0906.0	0906.0	1.0	5600.0			QL=2 ST=3 TYP=6
	8800 SVTO	8 S	0906.0	0906.0	1.0	320.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0906.0	0907.0	1.0	92.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	0906.0	0906.0	1.0	46.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0906.0	0906.0	1.0	210.0			QL=4 ST=2 TYP=3
	1415 SVTO	8 S	0906.0	0906.0	1.0	64.0			QL=4 ST=2 TYP=3
	15400 SVTO	8 S	0906.0	0906.0	1.0	220.0			QL=4 ST=2 TYP=3
	4995 SVTO	8 S	0906.0	0906.0	1.0	280.0			QL=4 ST=2 TYP=3
	204 IZMI	45 C	0906.0	0907.0	31.0	5000.0			
	3000 ONDR	2 S/F	0906.0	0906.9	1.0	190.0			
	127 TORN	47 GB	0906.1	0907.00	1.7	1200.00	580.0		
	536 ONDR	1 S	0907.0	0907.5	11.0	153.0			
	3013 IZMI	7 C	0920.0	0926.0	18.0	189.0			
	8400 BERN	46 C	0922.8	0925.9	29.2	29.4			
	536 ONDR	2 S/F	0923.0	0926.0	8.0	134.0			
	33 UPIC	48 C	0923.4	0926.0	7.1				
	11800 BERN	46 C	0923.5	0925.9	30.0	24.4			
	19600 BERN	46 C	0924.2	0925.0	7.6	8.0			
	808 ONDR	42 SER	0925.0	0926.0	10.0				
	3000 ONDR	2 S/F	0925.0	0925.1	1.0	301.0			
	15400 LEAR	8 S	0930.0	0931.0	2.0	34.0			QL=4 ST=2 TYP=3
	245 LEAR	49 GB	0931.0	0931.0	U	1600.0			QL=2 ST=2 TYP=6
	3013 IZMI	41 F	1158.0	1159.0	7.0	9.0	4.0		
	410 SGMR	4 S/F	1158.0	1159.0	3.0	70.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	1158.0	1159.0	1.0	160.0			QL=4 ST=2 TYP=3
	536 ONDR	42 SER	1159.0		5.0				
	536 ONDR	8 S	1217.0	1218.0	6.0	171.0			
	808 ONDR	3 S	1217.0	1219.0	3.0				
	410 SGMR	8 S	1217.0	1218.0	2.0	220.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	1217.0	1218.0	2.0	170.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	1217.0	1218.0	2.0	240.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1218.0	1218.0	2.0	130.0			QL=4 ST=2 TYP=3
610 SGMR	4 S/F	1218.0	1218.0	3.0	250.0			QL=4 ST=2 TYP=3	
245 SVTO	8 S	1218.0	1218.0	U	140.0			QL=2 ST=2 TYP=3	
245 SGMR	49 GB	1238.0	1242.0	7.0	2000.0			QL=4 ST=2 TYP=7	
33 UPIC	48 C	1238.4	1242.5	8.30					
808 ONDR	42 SER	1241.0	1243.0	9.0	62.0				
610 SVTO	4 S/F	1241.0	1243.0	3.0	200.0			QL=2 ST=2 TYP=3	
610 SGMR	8 S	1242.0	1242.0	2.0	180.0			QL=4 ST=2 TYP=3	
2695 SGMR	8 S	1242.0	1242.0	1.0	120.0			QL=2 ST=2 TYP=3	
1415 SGMR	8 S	1242.0	1243.0	1.0	67.0			QL=4 ST=2 TYP=3	
410 SGMR	49 GB	1242.0	1242.0	2.0	610.0			QL=4 ST=2 TYP=6	
410 SVTO	49 GB	1242.0	1242.0	5.0	590.0			QL=4 ST=2 TYP=6	
15400 SVTO	4 S/F	1242.0	1242.0	5.0	79.0			QL=4 ST=2 TYP=3	
245 SVTO	49 GB	1242.0	1242.0	5.0	2100.0			QL=4 ST=2 TYP=6	
4995 SVTO	4 S/F	1242.0	1242.0	3.0	86.0			QL=4 ST=2 TYP=3	
8800 SVTO	4 S/F	1242.0	1242.0	5.0	73.0			QL=4 ST=2 TYP=3	
2695 SVTO	4 S/F	1242.0	1242.0	5.0	150.0			QL=4 ST=2 TYP=3	
1415 SVTO	4 S/F	1242.0	1243.0	5.0	72.0			QL=4 ST=2 TYP=3	
536 ONDR	7 C	1242.0	1242.5	4.0	140.0				
245 SGMR	8 S	1453.0	1454.0	1.0	55.0			QL=4 ST=3 TYP=3	
410 SVTO	8 S	1531.0	1532.0	1.0	180.0			QL=4 ST=2 TYP=3	
410 SGMR	8 S	1532.0	1532.0	U	120.0			QL=4 ST=2 TYP=3	
245 PALE	8 S	1739.0	1740.0	2.0	62.0			QL=4 ST=2 TYP=3	
245 PALE	8 S	1914.0	1914.0	1.0	60.0			QL=4 ST=2 TYP=3	
245 PALE	8 S	1922.0	1922.0	U	55.0			QL=4 ST=2 TYP=3	

18
Oct 93

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

OCTOBER 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			
03	245	PALE	8 S	1927.0	1927.0	1.0	110.0			QL=4 ST=2 TYP=3	
	2695	PALE	4 S/F	2028.0	2033.0	8.0	50.0			QL=4 ST=2 TYP=3	
	1415	PALE	4 S/F	2028.0	2033.0	8.0	120.0			QL=4 ST=2 TYP=3	
	4995	PALE	4 S/F	2028.0	2030.0	8.0	21.0			QL=4 ST=2 TYP=3	
	2800	PENT	3 S	2028.0	2030.1	3.5	22.2	12.0			
	610	PALE	4 S/F	2029.0	2031.0	7.0	79.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2029.0	2033.0	4.0	41.0				QL=4 ST=3 TYP=3
	410	SGMR	4 S/F	2029.0	2033.0	4.0	170.0				QL=4 ST=3 TYP=3
	1415	SGMR	4 S/F	2029.0	2033.0	4.0	95.0				QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	2029.0	2031.0	4.0	79.0				QL=4 ST=3 TYP=3
	2800	PENT	29 PBI	2031.5	2031.5	30.4	9.3	4.0			
	2800	PENT	4 S/F	2031.7	2032.9	3.3	41.4	10.0			
	04	245	SVTO	43 NS	0529.0	0555.0	86.0	170.0			QL=4 ST=2 TYP=1
127		TORN	44 NS	0620.0E		520.0D		40.0		V=1	
33		UPIC	43 NS	0622.8	0722.0	526.4D					
204		IZMI	44 NS	0700.0E		300.0D		90.0			
260		ONDR	44 NS	0720.0E		460.0D					
245		SGMR	43 NS	1105.0	1251.0U	775.0	280.0				QL=4 ST=1 TYP=1
235		CUBA	44 NS	1319.0E		452.0D		14.0			
280		CUBA	44 NS	1319.0E		452.0D		14.0			
245		SGMR	43 NS	1412.0	1414.0	80.0	100.0				QL=4 ST=2 TYP=1
410		SVTO	43 NS	1534.0	1549.0	32.0	83.0				QL=4 ST=3 TYP=1
410		SGMR	44 NS	1544.0E	1549.0	66.0D	87.0				QL=4 ST=2 TYP=1
15400		LEAR	4 S/F	0033.0	0034.0	3.0	94.0				QL=4 ST=2 TYP=3
610		PALE	8 S	0033.0	0034.0	1.0	44.0				QL=4 ST=2 TYP=3
245		PALE	4 S/F	0033.0	0035.0	3.0	260.0				QL=2 ST=2 TYP=3
410		PALE	8 S	0033.0	0034.0	1.0	59.0				QL=2 ST=2 TYP=3
2800		PENT	3 S	0033.0	0033.7	1.8	25.5	6.0			
2800		HIRA	21 GRF	0033.6	0033.9	26.0	20.0	4.0			WL
500		HIRA	8 S	0033.8	0034.0	0.8	105.0	55.0			WL
8800		LEAR	8 S	0034.0	0034.0	U	130.0				QL=4 ST=2 TYP=3
1415		LEAR	8 S	0034.0	0034.0	U	89.0				QL=4 ST=2 TYP=3
4995		LEAR	8 S	0034.0	0034.0	U	73.0				QL=4 ST=2 TYP=3
610		LEAR	8 S	0034.0	0034.0	U	50.0				QL=4 ST=2 TYP=3
2695		LEAR	8 S	0034.0	0034.0	U	30.0				QL=4 ST=2 TYP=3
8800		PALE	8 S	0034.0	0034.0	U	130.0				QL=4 ST=2 TYP=3
1415		PALE	8 S	0034.0	0034.0	U	89.0				QL=4 ST=2 TYP=3
4995		PALE	8 S	0034.0	0034.0	U	56.0				QL=4 ST=2 TYP=3
15400		PALE	8 S	0034.0	0034.0	U	49.0				QL=4 ST=2 TYP=3
2695		PALE	8 S	0034.0	0034.0	U	29.0				QL=4 ST=2 TYP=3
4995		SVTO	4 S/F	0720.0	0721.0	3.0	42.0				QL=4 ST=2 TYP=3
245		SVTO	8 S	0720.0	0721.0	2.0	120.0				QL=4 ST=2 TYP=3
33		UPIC	48 C	0720.0	0722.0	5.0					QL=2 ST=2 TYP=3
3013		IZMI	7 C	0720.0	0721.5	6.0	11.0	5.0			
204		IZMI	7 C	0721.0	0722.0	1.3	500.0				
127		TORN	4 S/F	0721.0	0721.5	1.4	2600.0	1300.0			
3013		IZMI	7 C	0749.8	0750.5	5.0	8.0	4.0			
33		UPIC	48 C	0750.0	0750.4	4.6					
536		ONDR	3 S	1213.0		1.0	55.0				
536		ONDR	4 S/F	1250.5	1251.0	2.0	61.0				
610		SGMR	8 S	1251.0	1251.0	1.0	210.0				QL=4 ST=2 TYP=3
610		SVTO	8 S	1251.0	1251.0	1.0	270.0				QL=4 ST=2 TYP=3
245	SGMR	8 S	1344.0	1345.0	1.0	210.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1344.0	1345.0	1.0	180.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1357.0	1357.0	U	94.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	1413.0	1414.0	1.0	100.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1534.0	1536.0	2.0	36.0				QL=4 ST=2 TYP=3	
245	PALE	49 GB	2053.0	2057.0	5.0	600.0				QL=4 ST=2 TYP=3	
2800	PENT	4 S/F	2053.2	2054.3	7.6	10.7	6.0			QL=2 ST=2 TYP=6	
245	SGMR	4 S/F	2054.0	2057.0	4.0	360.0				QL=4 ST=2 TYP=5	
2800	PENT	29 PBI	2100.8	2105.9	26.0	5.2	2.0				
245	PALE	4 S/F	2250.0	2252.0	3.0	68.0				QL=2 ST=2 TYP=3	
245	LEAR	4 S/F	2259.0	2300.0	5.0	130.0				QL=4 ST=2 TYP=3	
245	PALE	4 S/F	2300.0	2303.0	3.0	130.0				QL=2 ST=3 TYP=5	
245	PALE	8 S	2316.0	2316.0	U	87.0				QL=2 ST=2 TYP=3	
245	PALE	8 S	2320.0	2320.0	U	48.0				QL=2 ST=2 TYP=3	
245	LEAR	4 S/F	2328.0	2331.0	4.0	100.0				QL=4 ST=3 TYP=3	
245	PALE	4 S/F	2328.0	2331.0	4.0	160.0				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

19
Oct 93

OCTOBER 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		
04	245	LEAR	8 S	2335.0	2335.0	U	100.0			QL=4 ST=2 TYP=3
		PALE	8 S	2338.0	2338.0	U	72.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	2342.0	2342.0	1.0	120.0			QL=4 ST=2 TYP=3
		PALE	8 S	2342.0	2342.0	U	130.0			QL=2 ST=2 TYP=3
05	245	PALE	43 NS	0200.0	0209.0	26.0	98.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0244.0	0356.0	76.0	440.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0247.0	0613.0	439.0	430.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0509.0	0613.0	655.0	410.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0620.0E		520.00		10.0		V=1
	204	IZMI	43 NS	0700.0		300.00		90.0		
	260	ONDR	44 NS	0720.0E		460.00				
	245	SGMR	43 NS		1127.0	45.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1400.0	1400.0	87.0	80.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1415.0E		195.00		11.0		
	235	CUBA	44 NS	1415.0E		195.00		13.0		
	245	PALE	43 NS		1649.0	142.0	80.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0002.0	0002.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0002.0	0002.0	U	140.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0045.0	0045.0	1.0	70.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0107.0	0108.0	2.0	62.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0132.0	0135.0	3.0	58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0132.0	0133.0	1.0	69.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0137.0	0137.0	U	56.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0137.0	0137.0	U	85.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0153.0	0153.0	U	50.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0155.0	0156.0	1.0	87.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0155.0	0156.0	1.0	91.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0159.0	0159.0	U	88.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0159.0	0200.0	U	84.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0204.0	0204.0	U	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0227.0	0228.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0227.0	0228.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0231.0	0233.0	2.0	92.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	0233.0	0233.0	U	98.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0234.0	0241.0	8.0	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0237.0	0239.0	2.0	95.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0240.0	0241.0	1.0	190.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0244.0	0244.0	1.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1121.4	1122.0	1.5	1900.0			
	15400	SGMR	8 S	1122.0	1122.0	1.0	120.0			QL=4 ST=2 TYP=3
4995	SVTO	8 S	1122.0	1122.0	1.0	41.0			QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1122.0	1122.0	1.0	86.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1122.0	1122.0	U	89.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1122.0	1122.0	1.0	960.0			QL=2 ST=3 TYP=6	
3013	IZMI	5 S	1122.4	1122.6	3.0	13.0	6.0			
245	SGMR	8 S	1130.0	1130.0	1.0	150.0			QL=4 ST=2 TYP=3	
536	ONDR	6 S	1131.0	1132.0	1.0	49.0				
245	SGMR	8 S	1250.0	1251.0	2.0	98.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1250.0	1251.0	1.0	86.0			QL=2 ST=3 TYP=3	
245	SVTO	8 S	1353.0	1354.0	2.0	160.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1354.0	1354.0	U	150.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1631.0	1631.0	U	89.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1726.0	1727.0	1.0	51.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1810.0	1810.0	1.0	280.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1810.0	1811.0	1.0	180.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1917.0	1918.0	2.0	340.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1917.0	1918.0	2.0	310.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1925.0	1926.0	1.0	63.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	2147.0	2148.0	3.0	100.0			QL=4 ST=2 TYP=3	
06	127	TORN	44 NS	0620.0E		520.00		7.0		V=1
	245	SVTO	43 NS	0639.0	0639.0	5.0	70.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		300.00		30.0		
	260	ONDR	44 NS	0720.0E		460.00				
	245	SVTO	43 NS	0853.0	1042.0	153.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1107.0	1127.0	85.0	78.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1319.0	1319.0	641.0	110.0			QL=4 ST=3 TYP=1
280	CUBA	44 NS	1320.0E		460.00		10.0			

20
Oct 93

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

OCTOBER 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		
06	235	CUBA	44 NS	1320.0E		470.0D		13.0		
	245	SGMR	43 NS	1342.0	1509.0	87.0	110.0		QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1739.0	1910.0	132.0	230.0		QL=4 ST=3 TYP=1	
	245	PALE	43 NS	1802.0	1910.0	596.0	340.0		QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	2326.0	0410.0	641.0	340.0		QL=4 ST=3 TYP=1	
	4995	PALE	8 S	0022.0	0022.0	U	93.0		QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0150.0	0152.0	2.0	79.0		QL=4 ST=2 TYP=3	
	245	PALE	8 S	0152.0	0152.0	U	92.0		QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0411.0	0412.0	1.0	110.0		QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0447.0	0449.0	2.0	74.0		QL=4 ST=2 TYP=3	
	410	LEAR	8 S	0448.0	0449.0	1.0	56.0		QL=4 ST=2 TYP=3	
	15400	LEAR	8 S	0520.0	0520.0	U	160.0		QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0526.0	0528.0	2.0	120.0		QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0527.0	0528.0	1.0	110.0		QL=4 ST=2 TYP=3	
	610	LEAR	8 S	0528.0	0528.0	1.0	33.0		QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	0617.0	0618.0	7.0	110.0		QL=4 ST=3 TYP=3	
	245	LEAR	8 S	0618.0	0618.0	1.0	110.0		QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1223.0	1225.0	2.0	89.0		QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1509.0	1509.0	U	140.0		QL=4 ST=2 TYP=3	
	245	SGMR	4 S/F	1727.0	1728.0	3.0	57.0		QL=4 ST=2 TYP=3	
245	SGMR	8 S	2047.0	2048.0	1.0	55.0		QL=4 ST=2 TYP=3		
245	SGMR	8 S	2112.0	2112.0	1.0	110.0		QL=4 ST=2 TYP=3		
245	SGMR	8 S	2124.0	2124.0	U	82.0		QL=4 ST=2 TYP=3		
07	245	SVTO	43 NS	0511.0	0601.0	459.0	240.0		QL=4 ST=2 TYP=1	
	127	TORN	44 NS	0620.0E		520.0D		7.0	V=1	
	204	IZMI	44 NS	0700.0E		300.0D		80.0		
	260	ONDR	44 NS	0720.0E		460.0D				
	280	CUBA	44 NS	1330.0E		380.0D		13.0		
	235	CUBA	44 NS	1330.0E		390.0D		13.0		
	245	PALE	43 NS	2311.0	0051.0	164.0	650.0		QL=4 ST=2 TYP=1	
	2695	LEAR	4 S/F	0411.0	0413.0	5.0	30.0		QL=4 ST=2 TYP=3	
	8800	LEAR	4 S/F	0411.0	0413.0	5.0	34.0		QL=4 ST=2 TYP=3	
	4995	LEAR	4 S/F	0411.0	0413.0	5.0	72.0		QL=4 ST=2 TYP=3	
	410	LEAR	8 S	0541.0	0541.0	1.0	110.0		QL=2 ST=2 TYP=3	
	204	IZMI	41 F	1055.2	1055.3	1.8	130.0			
	410	SVTO	4 S/F	1200.0	1211.0	15.0	2.0		QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	1209.0	1211.0	6.0	120.0		QL=2 ST=2 TYP=3	
	410	SVTO	4 S/F	1210.0	1211.0	5.0	22.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1211.0	1213.0	2.0	130.0		QL=4 ST=2 TYP=3	
	610	SVTO	8 S	1211.0	1211.0	U	15.0		QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	1211.0	1211.0	4.0	20.0		QL=4 ST=2 TYP=3	
	4995	SVTO	4 S/F	1211.0	1211.0	4.0	18.0		QL=4 ST=2 TYP=3	
	2695	SVTO	4 S/F	1211.0	1211.0	4.0	26.0		QL=4 ST=2 TYP=3	
	3000	ONDR	29 PBI	1211.0	1211.6	1.0	120.0		QL=4 ST=2 TYP=3	
	536	ONDR	8 S	1211.5	1213.0	3.0	97.0			
	410	SGMR	8 S	1228.0	1228.0	U	46.0		QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1228.0	1228.0	1.0	180.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1228.0	1229.0	1.0	41.0		QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	1228.0	1235.0	7.0	37.0		QL=2 ST=2 TYP=3	
	1415	SVTO	8 S	1228.0	1228.0	2.0	180.0		QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1228.0	1228.0	U	51.0		QL=4 ST=2 TYP=3	
	610	SVTO	8 S	1228.0	1229.0	1.0	59.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1316.0	1317.0	2.0	99.0		QL=4 ST=2 TYP=3	
536	ONDR	8 S	1317.0	1318.0	1.0	37.0				
245	SGMR	4 S/F	1317.0	1317.0	7.0	96.0		QL=4 ST=2 TYP=3		
410	SVTO	8 S	1317.0	1317.0	U	62.0		QL=4 ST=2 TYP=3		
245	SVTO	8 S	1317.0	1317.0	U	140.0		QL=2 ST=2 TYP=3		
1415	SVTO	8 S	1317.0	1317.0	1.0	36.0		QL=4 ST=2 TYP=3		
610	SVTO	8 S	1317.0	1317.0	U	53.0		QL=4 ST=2 TYP=3		
2695	SVTO	8 S	1318.0	1318.0	U	21.0		QL=4 ST=2 TYP=3		
2695	SGMR	8 S	1459.0	1459.0	U	30.0		QL=2 ST=3 TYP=3		
245	SGMR	49 GB	1625.0	1625.0	1.0	1200.0		QL=4 ST=2 TYP=6		
245	SGMR	49 GB	1810.0	1814.0	4.0	9500.0		QL=4 ST=2 TYP=6		
410	SGMR	4 S/F	1810.0	1814.0	5.0	160.0		QL=4 ST=2 TYP=3		
245	PALE	49 GB	1811.0	1814.0U	3.0	11000.0		QL=4 ST=3 TYP=6		
410	PALE	8 S	1813.0	1813.0	1.0	180.0		QL=4 ST=3 TYP=3		
610	PALE	8 S	1813.0	1814.0	1.0	32.0		QL=4 ST=3 TYP=3		
245	PALE	49 GB	1813.0	1814.0U	1.0	11000.0		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

21
Oct 93

OCTOBER 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		
07	245	SGMR	8 S	1816.0	1816.0	U	58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2125.0	2127.0	2.0	390.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2127.0	2127.0	U	220.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2128.0	2131.0	5.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2206.0	2206.0	U	160.0			QL=4 ST=2 TYP=3
08	245	SVTO	43 NS	0512.0	0906.0	551.0	180.0			QL=4 ST=3 TYP=1
	127	TORN	44 NS	0620.0E		520.00		30.0		V=2
	204	IZMI	44 NS	0700.0E		300.00		60.0		
	260	ONDR	44 NS	0720.0E	0000.0	460.00				
	245	SGMR	43 NS	1109.0	1139.0	197.0	86.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		420.00		10.0		
	235	CUBA	44 NS	1300.0E		450.00		12.0		
	245	SGMR	43 NS	1603.0	1611.0	181.0	79.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2325.0	0011.0	60.0	460.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0049.0	0051.0	2.0	220.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0259.0	0300.0	1.0	160.0			QL=2 ST=3 TYP=3
	245	LEAR	8 S	0300.0	0300.0	U	68.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0826.0	0826.0	3.0	110.0			QL=4 ST=2 TYP=3
09	204	IZMI	44 NS	0700.0E		300.00		20.0		
	260	ONDR	44 NS	0720.0E		460.00				
	127	TORN	43 NS	0900.0		185.0		2.0		V=0
	245	LEAR	43 NS	2308.0	0056.0	577.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0011.0	0011.0	U	310.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	0016.0	0018.0	7.5	8.0	4.0		0
	4995	LEAR	4 S/F	0807.0	0808.0	8.0	42.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0807.0	0809.0	8.0	21.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0807.0	0808.0	8.0	58.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0807.0	0808.0	8.0	74.0			QL=4 ST=2 TYP=3
	3000	ONDR	3 S	0807.8	0809.0	5.0	113.0			
	15400	SVTO	8 S	0808.0	0808.0	1.0	41.0			QL=4 ST=3 TYP=3
	8800	SVTO	8 S	0808.0	0808.0	2.0	68.0			QL=4 ST=3 TYP=3
	4995	SVTO	8 S	0808.0	0808.0	2.0	48.0			QL=4 ST=3 TYP=3
	3013	IZMI	7 C	0808.0	0809.5	17.0	15.0	5.0		
	245	SVTO	8 S	0912.0	0912.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1029.0	1029.0	1.0	120.0			QL=4 ST=2 TYP=3
	3013	IZMI	7 C	1041.0	1044.5	16.0	11.0	5.0		
	245	SGMR	8 S	1149.0	1149.0	U	85.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1149.0	1149.0	U	95.0			QL=4 ST=2 TYP=3
127	TORN	46 C	1339.1	1340.2	2.3	1300.0	160.0			
127	TORN	41 F	1412.0	1414.3	11.0	40.00	5.00			
245	SGMR	8 S	1442.0	1443.0	1.0	72.0			QL=4 ST=2 TYP=3	
2800	PENT	4 S/F	1908.5	1911.1	4.6	35.5	9.0			
15400	SGMR	8 S	1911.0	1911.0	2.0	30.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1911.0	1911.0	2.0	34.0			QL=2 ST=2 TYP=3	
2800	PENT	29 PBI	1913.1	1915.8	10.0	4.8	2.0			
10	127	TORN	44 NS	0620.0E		180.00		7.0		V=1
	204	IZMI	44 NS	0700.0E		300.00		10.0		
	260	ONDR	44 NS	0720.0E		460.00				
	235	CUBA	44 NS	1350.0E		420.00		7.0		
	245	SGMR	43 NS	1515.0	1516.0	34.0	65.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1600.0E		290.00		8.0		
	245	LEAR	43 NS	2307.0	2346.0	480.0	80.0			QL=4 ST=2 TYP=1
	245	SVTO	8 S	0759.0	0759.0	1.0	120.0			QL=4 ST=2 TYP=3
	33	UPIC	40 F	0827.2	0831.7	135.9				
	245	SVTO	4 S/F	1503.0	1505.0	3.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1505.0	1505.0	1.0	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1515.0	1516.0	2.0	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1800.0	1800.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1926.0	1927.0	7.0	71.0			QL=4 ST=2 TYP=3
245	SGMR	4 S/F	2003.0	2005.0	3.0	61.0			QL=4 ST=2 TYP=3	
2800	HIRA	1 S	2325.5	2328.0	5.0	4.0	2.0		WL	
11	204	IZMI	44 NS	0700.0E		300.00		20.0		
	260	ONDR	44 NS	0720.0E		460.00				
	245	SGMR	43 NS	1344.0	1356.0	108.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1727.0	1731.0	8.0	70.0			QL=4 ST=2 TYP=1

22
Oct 93

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

OCTOBER 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			
11	[	245 PALE	43 NS	1727.0	2327.0	428.0	290.0			QL=4 ST=2 TYP=1	
		245 SGMR	43 NS	1931.0	2137.0	135.0	450.0			QL=4 ST=2 TYP=1	
		245 LEAR	43 NS	2258.0	2258.0	105.0	120.0			QL=4 ST=2 TYP=1	
		127 TORN	4 S/F	0813.1	0814.0	2.7	660.0	110.0			
		245 SGMR	8 S	1304.0	1304.0	U	79.0				QL=4 ST=2 TYP=3
		245 SGMR	4 S/F	1319.0	1321.0	3.0	90.0				QL=4 ST=2 TYP=3
		245 SGMR	8 S	1558.0	1558.0	1.0	53.0				QL=4 ST=2 TYP=3
		245 SGMR	8 S	1831.0	1831.0	1.0	120.0				QL=4 ST=2 TYP=3
		245 SGMR	8 S	1835.0	1836.0	1.0	71.0				QL=4 ST=3 TYP=3
245 SGMR	8 S	1849.0	1850.0	1.0	52.0				QL=4 ST=2 TYP=3		
12	[	260 ONDR	44 NS	0720.0E		460.0D					
		2800 HIRA	8 S	0111.5	0112.0	0.7	10.0	6.0		0	
		2840 PEKG	1 S	0112.0	0113.1	3.0	6.5				
		245 PALE	8 S	0202.0	0202.0	2.0	170.0				QL=4 ST=2 TYP=3
		410 SGMR	8 S	1404.0	1404.0	U	100.0				QL=4 ST=2 TYP=3
		410 SVTO	8 S	1404.0	1404.0	U	160.0				QL=4 ST=2 TYP=3
		33 UPIC	45 C	1439.5	1441.1	3.4					
13	[	260 ONDR	44 NS	0720.0E		460.0D					
		245 PALE	43 NS	1859.0	1900.0	59.0	100.0				QL=4 ST=2 TYP=1
		245 PALE	43 NS	2123.0	2124.0	65.0	110.0				QL=4 ST=2 TYP=1
		204 IZMI	42 SER	0741.0	0744.0	4.0	56.0				
		245 SVTO	8 S	0743.0	0744.0	1.0	260.0				QL=2 ST=2 TYP=3
		245 LEAR	8 S	0744.0	0744.0	U	220.0				QL=4 ST=2 TYP=3
		127 TORN	45 C	0841.1	0842.3	5.8	50.0	15.0			DISTURBED
		127 TORN	45 C	0852.2	0853.0	2.8	70.0	15.0			DISTURBED
14	[	260 ONDR	44 NS	0720.0E		120.0D					
		245 LEAR	8 S	0633.0	0633.0	U	50.0				QL=4 ST=2 TYP=3
		245 SVTO	8 S	0633.0	0633.0	U	86.0				QL=2 ST=2 TYP=3
		808 ONDR	2 S/F	0838.0	0839.0	3.0	89.0				
		260 ONDR	8 S	1011.0	1011.1	1.0					
15	[	280 CUBA	44 NS	1400.0E		60.0D		15.0			
		235 CUBA	44 NS	1400.0E		60.0D		11.0			
18	[	235 CUBA	44 NS	1350.0E		250.0D		9.0			
		280 CUBA	44 NS	1350.0E		250.0D		15.0			
19	[	235 CUBA	44 NS	1323.0E		277.0D		8.0			
		280 CUBA	44 NS	1323.0E		457.0D		13.0			
		3000 ONDR	45 C	0825.0	0828.9	11.0	140.0				
		3000 ONDR	45 C	0844.0		3.0	110.0				
20	[	127 TORN	43 NS	0940.0		100.0		5.0		V=0	
		260 ONDR	43 NS	1025.0		85.0D					
		235 CUBA	44 NS	1320.0E		450.0D		9.0			
		280 CUBA	44 NS	1320.0E		510.0D		14.0			
		2800 HIRA	8 S	0026.5	0026.5	0.6	11.0	7.0			WL
		610 LEAR	8 S	0624.0	0624.0	1.0	83.0				QL=4 ST=2 TYP=3
		410 LEAR	8 S	0624.0	0624.0	1.0	81.0				QL=4 ST=2 TYP=3
		610 SVTO	8 S	0624.0	0625.0	1.0	79.0				QL=2 ST=2 TYP=3
		410 SVTO	8 S	0624.0	0624.0	1.0	43.0				QL=4 ST=2 TYP=3
		260 ONDR	23 GRF	0940.0		45.0					
		3100 BERN	46 C	0942.9	0950.6	57.9	2.9				
		5200 BERN	46 C	0943.8	0950.6	51.8	3.8				
		3013 IZMI	7 C	0946.5	0950.7	22.0	14.0				
		808 ONDR	46 C	0949.0	0956.5	23.0	441.0				
		536 ONDR	46 C	0952.0		20.0	97.0				
610 LEAR	4 S/F	0954.0	0958.0	8.0	210.0				QL=4 ST=2 TYP=5		
1415 LEAR	8 S	1000.0	1000.0	U	61.0				QL=4 ST=2 TYP=3		
1415 SVTO	8 S	1000.0	1000.0	U	40.0				QL=4 ST=2 TYP=3		
2800 PENT	20 GRF	2100.0	2140.0	88.1	6.7	4.0					
21	[	127 TORN	44 NS	0620.0E		324.0D		5.0		V=1	
		204 IZMI	43 NS	0805.0		230.0D		5.0			
		235 CUBA	44 NS	1415.0E		225.0D		17.0			
		280 CUBA	44 NS	1415.0E		345.0D		15.0			

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

23
Oct 93

OCTOBER 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		
21	610	SGMR	8 S	2037.0	2038.0	2.0	35.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2037.0	2038.0	2.0	37.0			QL=4 ST=2 TYP=3
22	204	IZMI	43 NS	0850.0		200.00		5.0		
	260	ONDR	44 NS	0900.0E		340.00				
	235	CUBA	44 NS	1324.0E		336.00		9.0		
	280	CUBA	44 NS	1324.0E		402.00		12.0		
	204	IZMI	7 C	0928.5	0931.5	5.0	6.5			
23	204	IZMI	45 C	1144.3	1145.0	3.0	310.0			
	2800	PENT	3 S	2154.1	2154.6	1.9	12.2	2.0		
	2800	HIRA	8 S	2154.5	2155.0	0.7	24.0	15.0		0
	500	HIRA	8 S	2154.6	2154.8	0.5	4.0			0
24	280	CUBA	44 NS	1330.0E		190.00		12.0		
	235	CUBA	44 NS	1330.0E		190.00		8.0		
	245	PALE	8 S	1858.0	1859.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1858.0	1859.0	1.0	110.0			QL=4 ST=2 TYP=3
25	280	CUBA	44 NS	1320.0E		438.00		13.0		
	235	CUBA	44 NS	1500.0E		338.00		9.0		
	204	IZMI	41 F	1115.0	1119.0	6.5	94.0			
	245	SVTO	8 S	1412.0	1413.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1413.0	1413.0	U	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1958.0	1959.0	2.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1958.0	2000.2	4.7	57.2	16.0		
	8800	SGMR	8 S	1959.0	1959.0	1.0	71.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1959.0	1959.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1959.0	2000.0	2.0	67.0			QL=2 ST=2 TYP=3
	280	CUBA	48 C	1959.3	2002.7	12.6	120.0			
	235	CUBA	48 C	1959.3	2002.7	12.6	140.0			
	9500	CUBA	2 S/F	1959.7	2000.8	3.8	64.0	12.0		
	1415	SGMR	8 S	2000.0	2000.0	U	19.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2000.0	2000.0	2.0	20.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2007.0	2008.0	1.0	51.0			QL=4 ST=2 TYP=3	
26	280	CUBA	44 NS	1340.0E		360.00		14.0		
	235	CUBA	44 NS	1340.0E		360.00		9.0		
	2840	PEKG	5 S	0038.5	0041.0	5.0	16.6			
	2695	LEAR	8 S	0040.0	0040.0	1.0	23.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0040.0	0040.0	1.0	49.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0040.0	0041.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0040.0	0041.0	2.0	68.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0040.0	0041.0	2.0	23.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0040.0	0041.0	1.0	32.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0040.0	0041.0	2.0	75.0			QL=4 ST=2 TYP=3
	2800	HIRA	45 C	0040.1	0040.7	3.5	19.0	11.0		0
	500	HIRA	46 C	0040.2	0040.6	2.8	9.0	4.0		0
	3013	IZMI	7 C	1009.0	1012.0	6.0	6.0	3.0		
	204	IZMI	41 F	1010.8	1012.0	2.0	600.0			
	245	LEAR	8 S	1011.0	1011.0	U	82.0			QL=4 ST=2 TYP=3
	260	ONDR	2 S/F	1011.0	1012.0	6.0	78.0			
	245	SGMR	49 GB	1637.0	1637.0	1.0	510.0			QL=4 ST=2 TYP=6
	245	PALE	4 S/F	1727.0	1732.0	5.0	390.0			QL=4 ST=2 TYP=5
2800	PENT	3 S	1728.3E	1728.3	4.00	25.2				
27	235	CUBA	44 NS	1346.0E		194.00		10.0		
	280	CUBA	44 NS	1346.0E		294.00		13.0		
	3100	BERN	4 S/F	0633.9	0637.0	11.3	5.3			
	5200	BERN	46 C	0633.9	0637.0	11.3	4.6			
	8400	BERN	3 S	0634.3	0637.0	6.5	3.0			
	2800	HIRA	3 S	0635.7	0636.7	3.5	23.0	11.0		0
	245	SVTO	8 S	0636.0	0637.0	1.0	78.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0636.0	0637.0	1.0	27.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0636.0	0637.0	1.0	26.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0636.0	0637.0	1.0	33.0			QL=4 ST=2 TYP=3
	500	HIRA	1 S	0636.5	0636.8	1.5	6.0	3.0		0
	245	SVTO	49 GB	0638.0	0641.0	4.0	1600.0			QL=4 ST=2 TYP=6
245	LEAR	49 GB	0639.0	0640.0	3.0	1700.0			QL=4 ST=2 TYP=6	

24
Oct 93

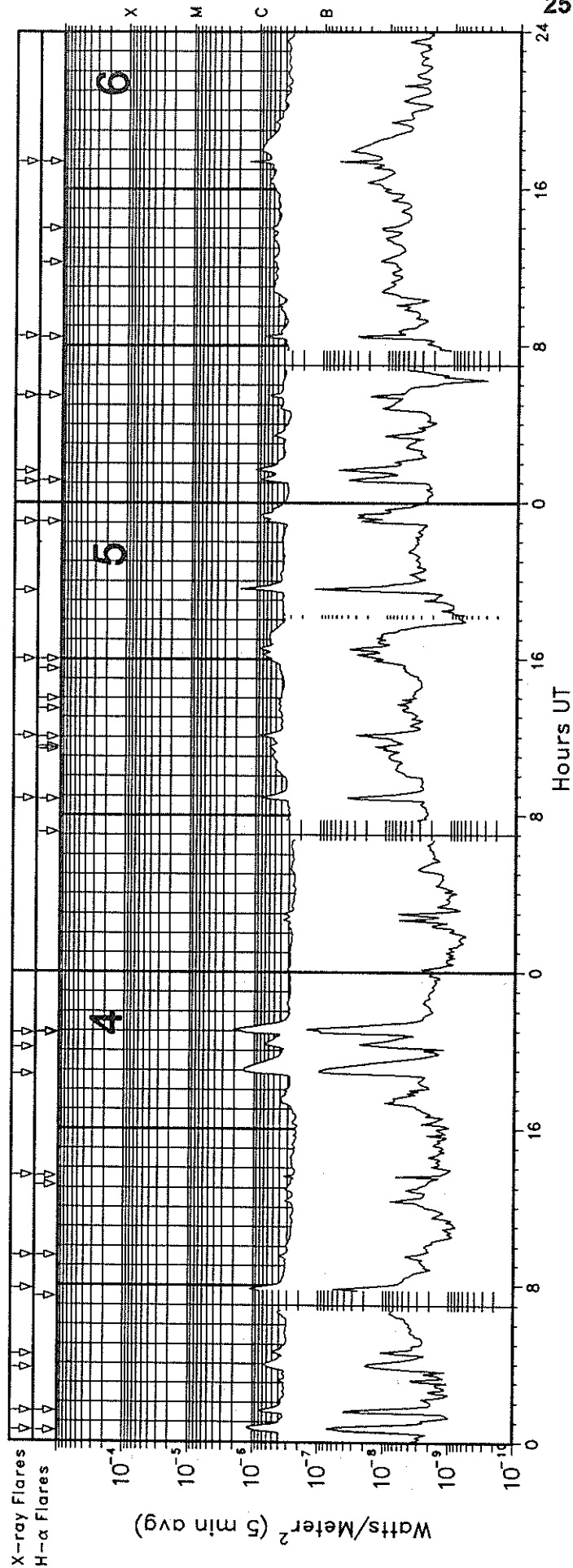
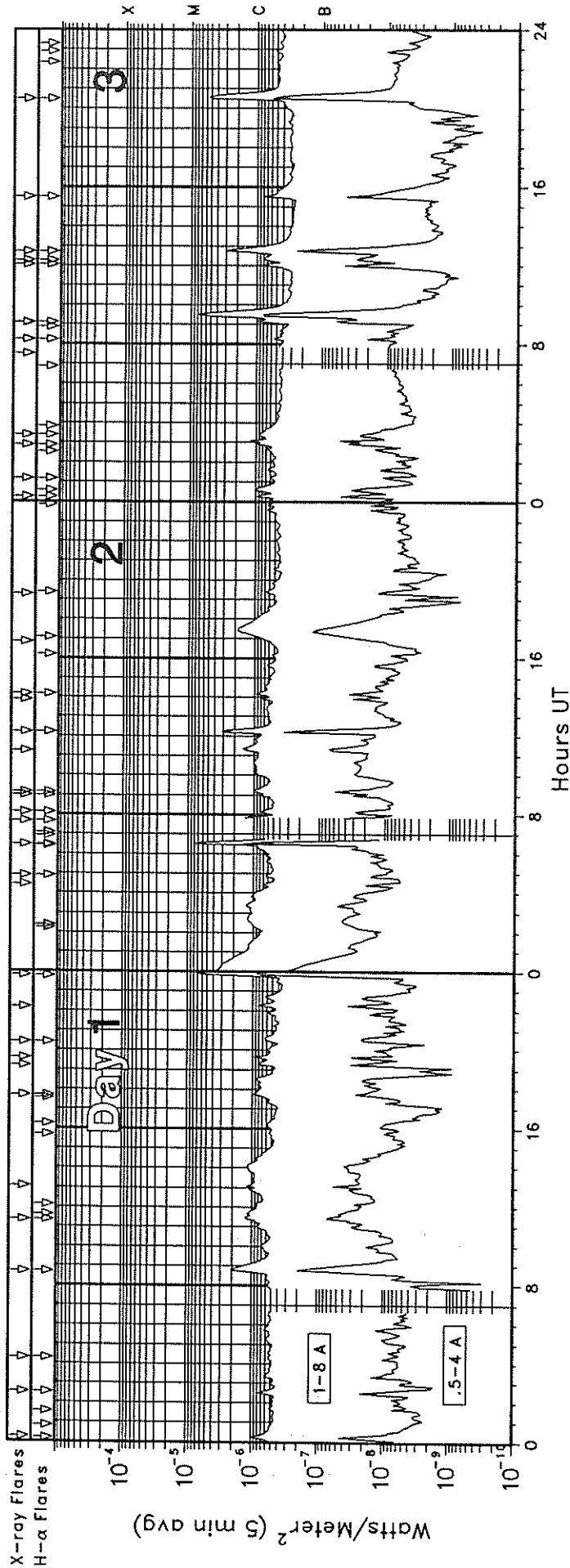
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

OCTOBER 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		
27	127	TORN	42	BER	0639.3	0644.6	7.0	220.0		
		204	IZMI	45	C	0640.0	0642.7	3.5	600.0	
	245	SGMR	4	S/F	1124.0	1129.0	8.0	120.0		QL=4 ST=2 TYP=3
		SVTO	4	S/F	1128.0	1129.0	3.0	120.0		QL=4 ST=2 TYP=3
	204	IZMI	41	F	1129.0	1129.3	3.0	300.0		
	8800	SVTO	8	S	1146.0	1146.0		200.0	U	QL=4 ST=2 TYP=3
	245	SGMR	8	S	1324.0	1324.0		51.0	U	QL=4 ST=3 TYP=3
28	235	CUBA	44	NS	1348.0E		372.0D		8.0	
		280	CUBA	44	NS	1348.0E		442.0D		12.0
	204	IZMI	41	F	0920.0	0923.0	8.6	90.0		
	260	ONDR	42	SER	0920.0	0923.0	10.0	140.0		
		3013	IZMI	5	S	0922.0	0923.0	3.0	6.0	3.0
	245	LEAR	8	S	0922.0	0922.0	1.0	140.0		QL=4 ST=2 TYP=3
	245	SVTO	8	S	0922.0	0922.0	1.0	140.0		QL=4 ST=2 TYP=3
	245	SGMR	8	S	1656.0	1657.0	1.0	66.0		QL=4 ST=2 TYP=3
29	235	CUBA	44	NS	1405.0E		445.0D		8.0	
		280	CUBA	44	NS	1405.0E		445.0D		13.0
	500	HIRA	42	SER	0152.2	0152.2	1.5	5.0		0
	245	LEAR	8	S	0451.0	0452.0	1.0	120.0		QL=4 ST=2 TYP=3
	3013	IZMI	8	S	0838.1	0838.3	0.2	22.0		
	245	PALE	8	S	2006.0	2007.0	1.0	74.0		QL=2 ST=2 TYP=3
30	260	ONDR	43	NS	0910.0		310.0D			
		245	PALE	43	NS	2142.0	2143.0	57.0	100.0		QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2157.0	2157.0	573.0	86.0		QL=4 ST=2 TYP=1
	500	HIRA	46	C	0010.8	0012.5	2.5	7.0	3.0	0
	500	HIRA	8	S	0023.0	0023.0	0.3	11.0		0
31	245	PALE	43	NS	0318.0	0323.0	22.0	110.0		QL=4 ST=2 TYP=1
		127	TORN	44	NS	0620.0E		520.0D		4.0	V=1
	204	IZMI	44	NS	0700.0E		300.0D		20.0	
		260	ONDR	44	NS	0750.0E		390.0D		
	245	PALE	8	S	0154.0	0154.0	1.0	53.0		QL=4 ST=2 TYP=3
	245	PALE	8	S	0200.0	0200.0		68.0	U	QL=4 ST=2 TYP=3
	204	IZMI	41	F	0716.8	0717.6	1.0	170.0		
		245	SVTO	8	S	0717.0	0717.0		62.0	U	QL=4 ST=2 TYP=3
	3013	IZMI	20	GRF	1050.5	1140.0	70.0D	12.0		QL=4 ST=2 TYP=3
	33	UPIC	2	S/F	1125.0	1125.4	1.3			
	204	IZMI	45	C	1149.0	1152.0	5.0	1700.0		
		3013	IZMI	5	S	1149.0	1150.0	3.5	4.0	2.0
	500	HIRA	42	SER	2231.5	2233.6	4.0	150.0		WL
	2800	HIRA	45	C	2232.0	2232.2	3.0	15.0	7.0	0
410	LEAR	8	S	2233.0	2233.0	1.0	100.0		QL=4 ST=2 TYP=3	
245	LEAR	49	GB	2233.0	2233.0	1.0	1600.0		QL=4 ST=2 TYP=6	

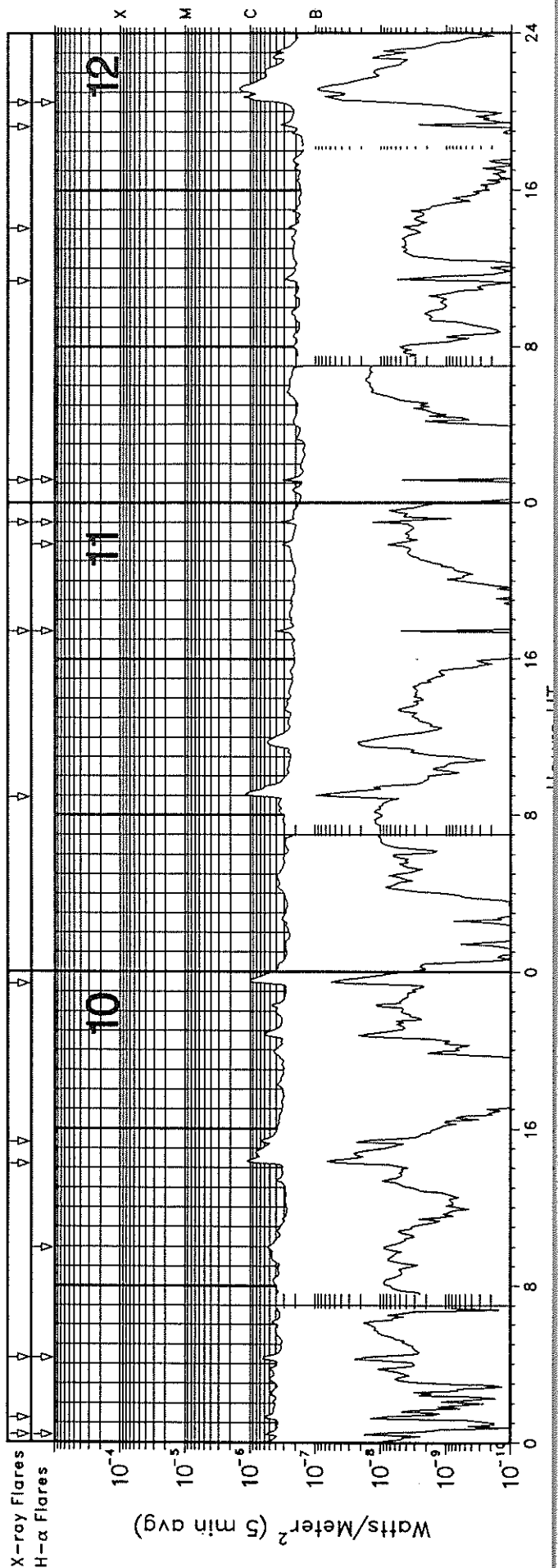
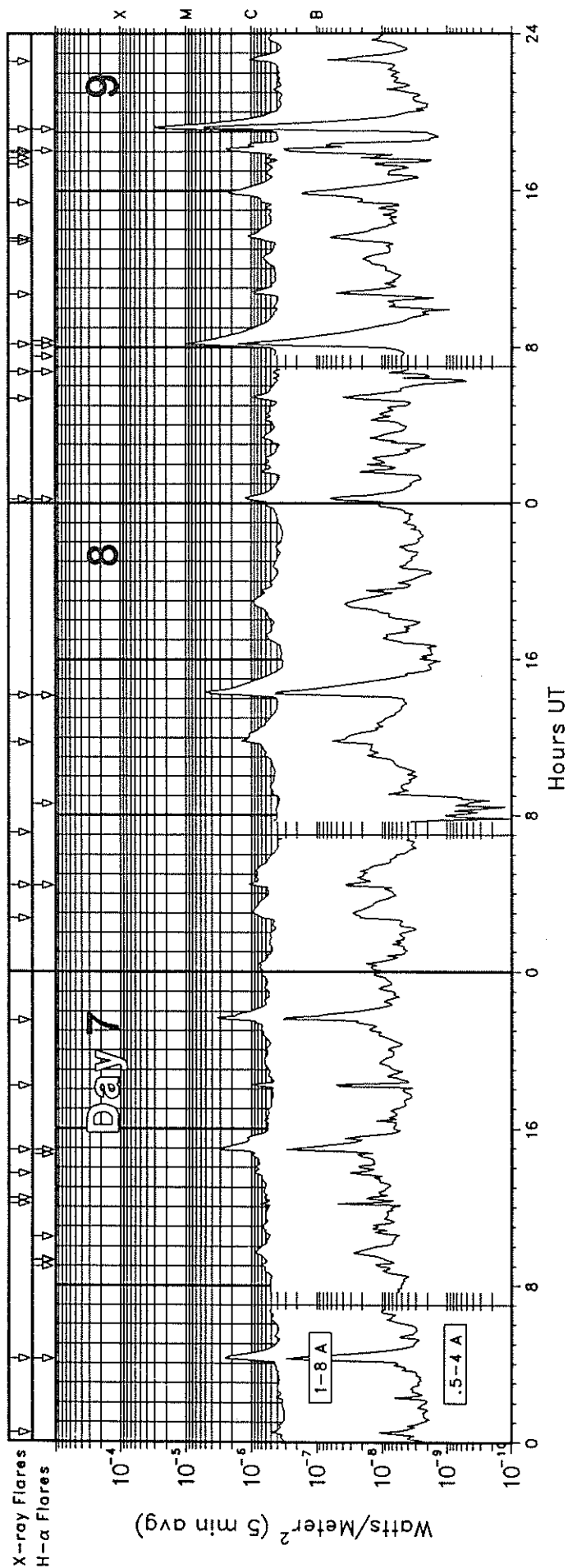
GOES-7 X-RAY DETECTOR

October 1993

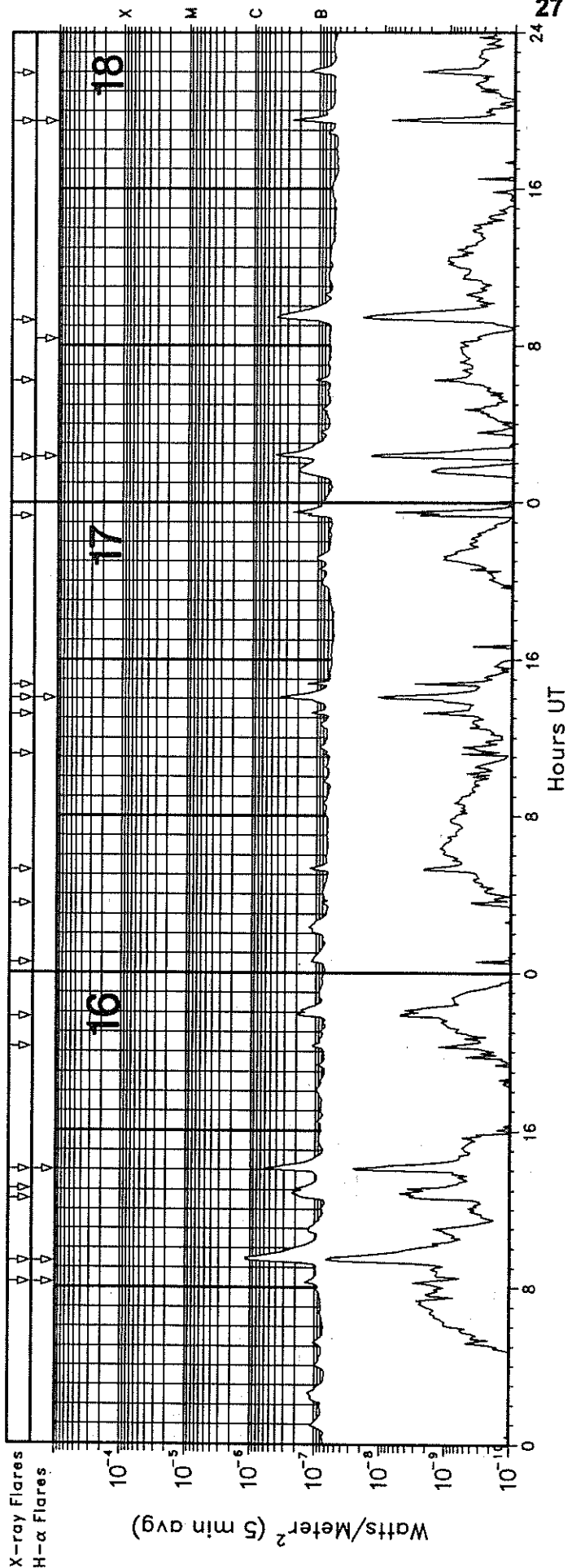
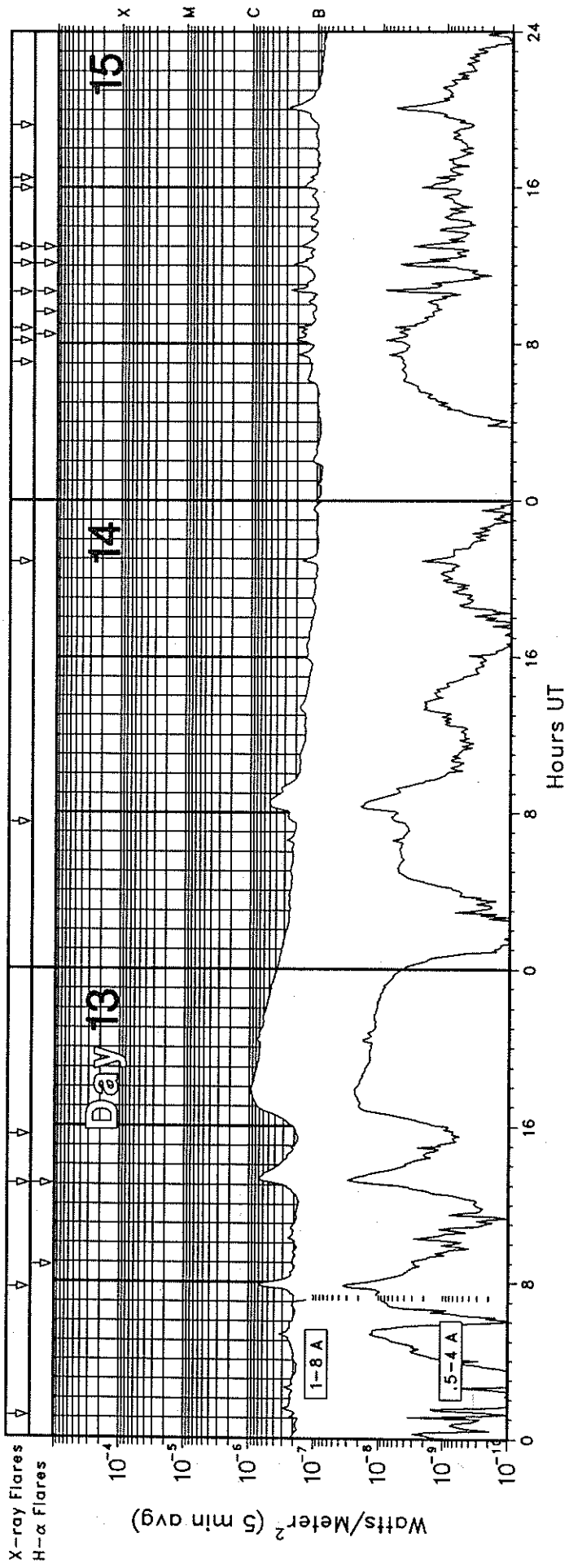


GOES-7 X-RAY DETECTOR

October 1993

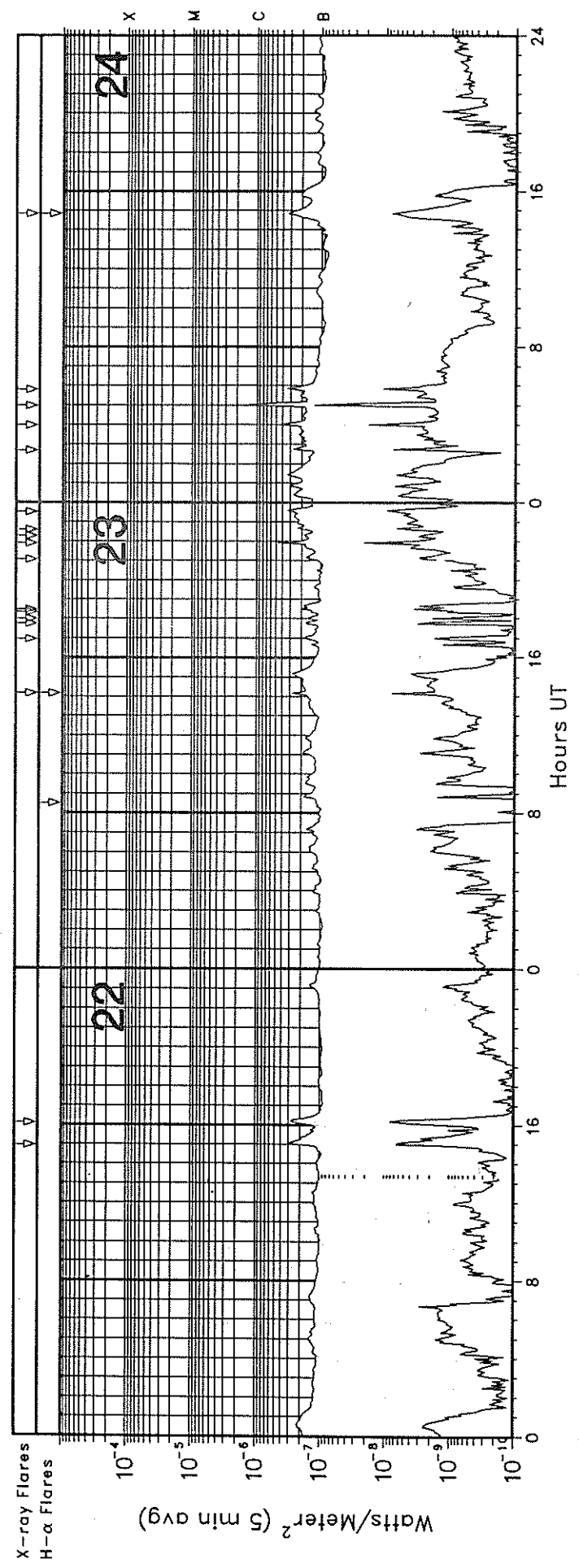
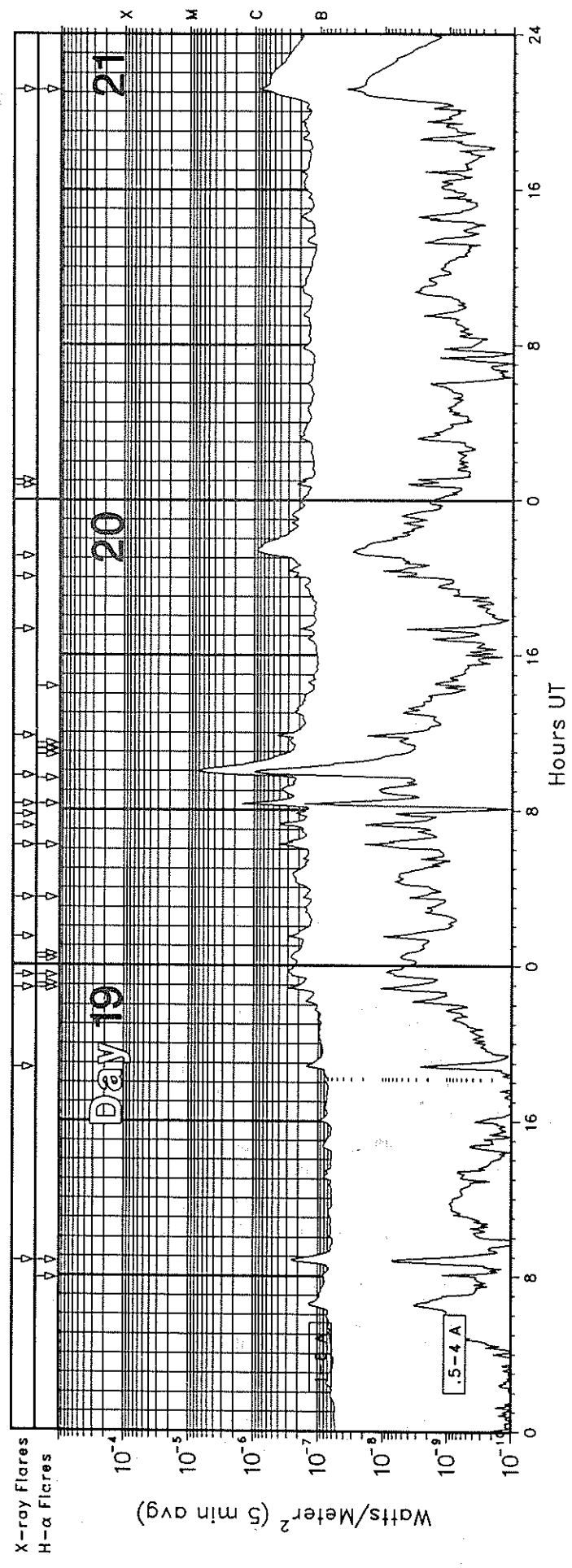


October 1993



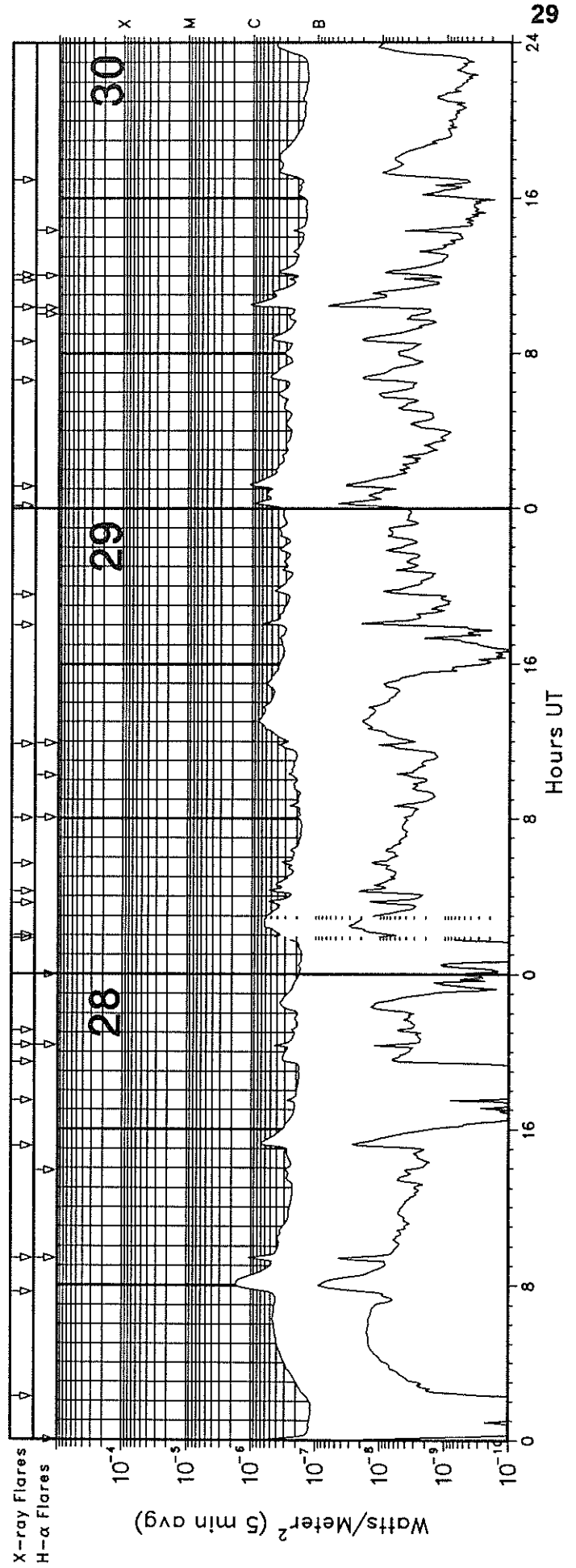
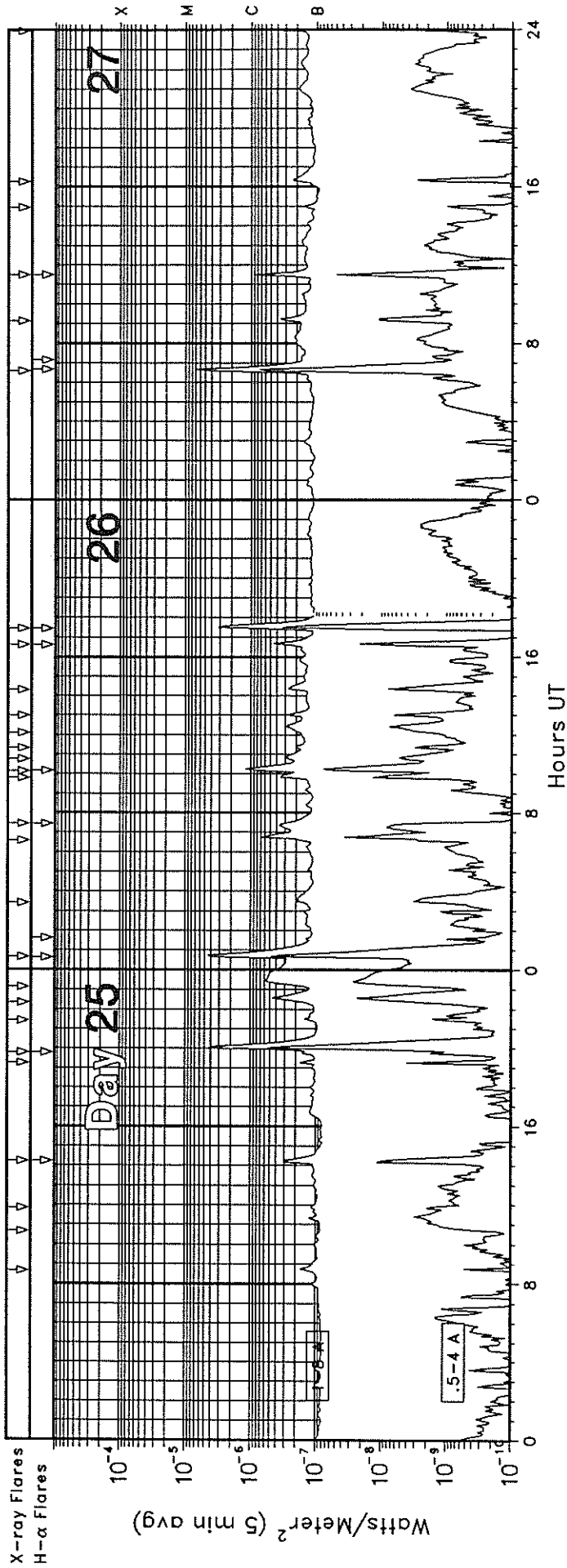
GOES-7 X-RAY DETECTOR

October 1993



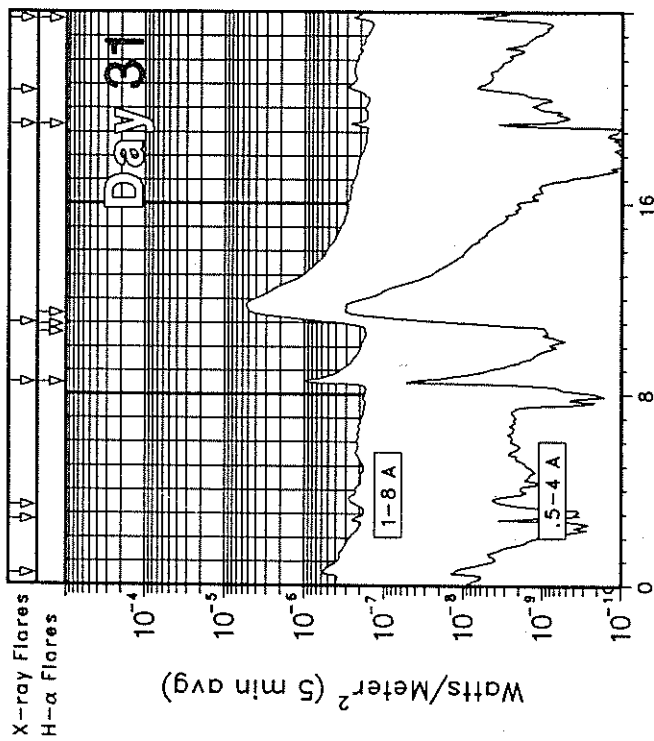
GOES-7 X-RAY DETECTOR

October 1993



GOES-7 X-RAY DETECTOR

October 1993



GOES SOLAR X-RAY FLARES
 Preliminary Listing

31
 Oct 93

October 1993

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
01	0015	0015	0024	N09	E40	SF	C1.2	7590
01	0232	0234	0237	N10	E33	SF	B7.9	7590
01	0418	0418	0423	N08	E28	SF	B6.1	7590
01	0842	0844	0854	S12	E77	SF	C2.2	7592
01	1121	1128	1133	S05	E63	SF	C1.3	7592
01	1304	1307	1310				C1.4	
01	1743	1745	1808	N07	E20	SF	B9.5	7590
01	1912	1918	1930				B8.4	
01	1936	1941	1944				C1.0	
01	2025	2031	2039	N08	E28	SF	B6.6	7590
01	2211	2216	2222				B8.6	
01	2348	2353	0025	S14	E69	1F	C8.5	7592
02	0426	0429	0431				B8.5	
02	0453	0453	0457	N08	E23	SF	B7.6	7590
02	0628	0632	0649	N10	E24	SN	M1.4	7590
02	0740	0740	0757	N08	E14	1N	C6.5	7590
02	0808	0808	0810	N10	E17	SF	B8.0	7590
02	0900	0902	0908	S15	E60	SF	B9.5	7592
02	0909	0918	0924	S15	E60	SF	C1.1	7592
02	1115	1121	1128				C1.5	
02	1212	1212	1226	N10	E21	SN	C5.0	7590
02	1352	1355	1359				B9.0	
02	1409	1411	1420	N11	E14	SF	B9.9	7590
02	1650	1725	1750				C1.8	7590
02	1916	1924	1929				B7.1	7590
03	0015	0017	0024	N09	E13	SF	C1.2	7590
03	0110	0114	0119	N10	E08	SF	B6.9	7590
03	0252	0257	0317	N09	E04	SF	C1.4	7590
03	0323	0328	0349	N07	E02	SF	B9.1	7590
03	0730	0734	0737				B7.5	
03	0813	0817	0840	N08	W02	SF	B6.3	7590
03	0905	0909	0916				C1.0	
03	0907	0930	0947	N08	W02	1B	C8.6	7590
03	1204	1207	1209	N08	W01	SF	B9.8	7590
03	1216	1221	1231	N11	E02	SF	B8.4	7590
03	1243	1244	1313	N08	W03	SN	C3.0	7590
03	1530	1534	1538	N09	W02	SF	C1.0	7590
03	2029	2034	2058	N11	W03	1N	C7.0	7590
04	0034	0047	0114	N07	W10	SF	C1.2	7590
04	0132	0134	0148	S15	E39	SF	B9.9	7592
04	0345	0359	0408				B7.4	
04	0427	0429	0439				B5.3	
04	0749	0752	0756				C1.2	
04	0930	0931	0938	S20	W49	SF	B4.2	7593
04	1336	1336	1338	N08	W11	SF	B4.3	7590
04	1847	1904	1922				C1.4	
04	2009	2022	2035				B7.3	
04	2054	2059	2119	N09	W22	1F	C2.2	7590
05	0851	0854	0857	S13	E22	SF	B8.5	7592
05	1202	1205	1212	N10	W18	SF	C1.0	7590
05	1601	1634	1728	S14	E17	SF	B9.5	7592
05	1930	1937	1941				C1.9	
05	2303	2316	2354	S14	E11	SF	B9.4	7592
06	0104	0113	0123				B8.9	
06	0137	0142	0146				C1.1	
06	0528	0528	0537	S12	E03	SF	B9.1	7592
06	0829	0829	0834	S13	E12	SF	C1.2	7592
06	1725	1725	1732	N15	W44	SF	C1.6	7590
07	0026	0030	0034				B5.5	
07	0412	0413	0434	S14	W03	SF	C2.6	7592

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
07	1209	1213	1215				C1.0	
07	1226	1229	1231				B8.4	
07	1341	1348	1353				B9.8	
07	1453	1456	1525	S14	W09	1F	C3.3	7592
07	1810	1815	1817				C2.1	
07	2132	2140	2143				C4.3	
08	0244	0306	0339				B9.6	
08	0427	0431	0437	S17	W17	SF	C1.1	7592
08	0707	0711	0717				B6.9	
08	1145	1151	1157				C1.4	
08	1409	1421	1443	N11	W63	1N	C5.5	7590
09	0012	0019	0038	S17	W30	SF	C1.5	7592
09	0521	0526	0533				B9.6	
09	0643	0643	0647	S17	W35	SF	B5.8	7592
09	0809	0810	0818	N11	W78	SF	M1.1	7590
09	1042	1049	1057				C1.0	
09	1324	1327	1330				B6.9	
09	1333	1339	1348				C1.1	
09	1524	1555	1607				C2.3	
09	1721	1724	1728				B7.3	
09	1740	1743	1745				C1.0	
09	1756	1805	1808				C3.0	
09	1804	1826	1837	S18	W39	SF	C1.4	7592
09	1909	1913	1935	N11	W78	3B	M3.5	7590
09	2236	2242	2249				C1.1	
10	0023	0023	0032	S15	W45	SF	B6.7	7592
10	0114	0119	0124				B6.4	
10	0417	0417	0427	S16	W46	SF	B7.7	7592
10	1412	1423	1437				C1.1	
10	1519	1523	1528				B7.8	
10	2324	2334	2349				C1.0	
11	0855	0906	0918				C1.2	
11	1725	1726	1729	S23	E40	SF	B5.0	7597
11	2259	2301	2306	S24	E37	SF	B4.0	7597
12	0109	0112	0114				B4.8	
12	1122	1126	1137				B3.1	
12	1402	1405	1412				B2.6	
12	1916	1920	1927				B3.6	
12	2029	2112	2257	S21	E23	SF	C1.5	7597
13	0104	0108	0110				B2.9	
13	0742	0755	0802				B7.6	
13	1303	1315	1326	S21	E15	SF	B7.1	7597
13	1532	1754	2159				B9.4	
14	0730	0834	0900				B5.2	
14	2051	2058	2103				B1.8	
15	0703	0728	0734				B1.8	
15	0809	0813	0818				B2.6	
15	0847	0851	0853				B2.3	
15	1039	1045	1047				B3.8	
15	1207	1207	1224	N04	E01	SF	B2.4	
15	1258	1300	1322	N04	W00	SF	B1.9	
15	1558	1612	1619				B1.4	
15	1629	1633	1635				B1.5	
15	1913	2008	2017				B2.8	
16	0815	0817	0825	S21	W22	SF	B1.4	7597
16	0919	0924	0949	S21	W24	SF	C1.3	7597
16	1233	1254	1300				B2.4	

32
Oct 93

GOES SOLAR X-RAY FLARES
Preliminary Listing

October 1993

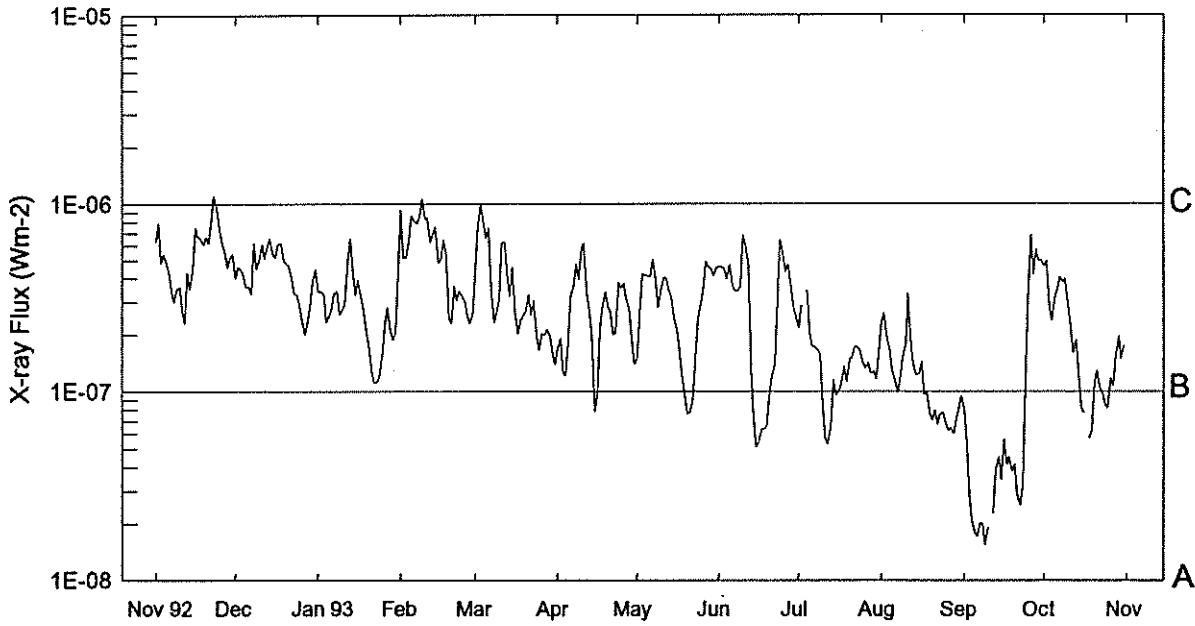
Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
16	1302	1305	1309				B2.1	
16	1401	1405	1430	S23	W25	SF	B6.9	7597
16	2015	2018	2024				B1.2	
16	2147	2157	2203				B2.0	
17	0032	0039	0052				B1.3	
17	0332	0335	0337				B1.0	
17	0514	0519	0523				B1.5	
17	1109	1112	1114				B1.0	
17	1311	1316	1323				B1.2	
17	1402	1403	1420	S21	W40	SF	B3.9	7597
17	1442	1446	1450				B1.5	
17	2318	2322	2324				B2.0	
18	0217	0227	0232				B4.8	
18	0613	0617	0621				B1.2	
18	0916	0928	0940				B4.7	
18	1929	1932	1953	N05	W46	SF	B2.6	7601
18	2156	2202	2208				B1.5	
19	0846	0847	0859	N06	W51	SF	B2.8	7601
19	1845	1852	1903				B1.5	
19	2250	2251	2258	N07	W59	SF	B3.0	7601
19	2330	2332	2338	N06	W60	SF	B3.3	7601
20	0127	0130	0133				B3.5	
20	0329	0340	0402	N07	W63	SF	B2.0	7601
20	0610	0614	0621	N07	W65	SF	B5.0	7601
20	0710	0719	0724				B4.8	
20	0746	0751	0753				B2.6	
20	0818	0822	0829	N06	W66	SF	C2.4	7601
20	0945	1001	1012				C7.8	
20	1148	1153	1158				B4.7	
20	1717	1721	1726				B2.1	
20	2002	2022	2029				B3.3	
20	2106	2126	2152	S09	E08	SF	B9.1	7602
21	0046	0051	0054				B2.3	
21	0102	0105	0107				B2.1	
21	2108	2109	2130	S16	W07	SF	B9.1	7605
22	1457	1507	1515				B3.0	
22	1606	1614	1624				B3.0	
23	1410	1411	1413	N08	W42	SF	B3.3	7604
23	1656	1701	1709				B1.8	
23	1744	1748	1753				B2.0	
23	1759	1803	1807				B1.8	
23	1820	1823	1826				B1.7	
23	1828	1832	1836				B2.1	
23	2104	2110	2121				B1.7	
23	2153	2155	2158				B6.5	
23	2216	2219	2222				B2.2	
23	2236	2241	2246				B2.4	
23	2330	2339	2341				B4.0	
24	0241	0247	0253				B2.9	
24	0358	0402	0405				B5.6	
24	0457	0503	0506				C2.2	
24	0548	0552	0555				B3.7	
24	1450	1451	1459	S14	W26	SF	B3.4	7603
25	1039	1045	1047				B3.8	
25	1039	1045	1047				B3.8	
25	1039	1045	1047				B3.8	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
25	0839	0846	0851				B1.7	
25	1151	1154	1156				B1.4	
25	1413	1413	1421	N07	E61	SF	B3.8	7608
25	1915	1918	1921				B2.5	
25	1948	2001	2004	N08	E59	1F	C6.2	7608
25	2126	2131	2136				B1.5	
25	2220	2237	2243				B4.8	
25	2308	2338	0010				B5.7	
26	0040	0041	0059	N08	E55	1F	C5.9	7608
26	0326	0330	0352				B2.0	
26	0635	0647	0655				B7.5	
26	0726	0727	0734	N10	E53	SF	B3.7	7608
26	0948	0953	1000				B4.1	
26	1009	1015	1022				C1.4	
26	1045	1050	1059				B2.9	
26	1119	1122	1127				B2.1	
26	1206	1227	1235				B3.0	
26	1258	1302	1306				B3.1	
26	1417	1422	1435				B2.8	
26	1638	1640	1649	N08	E46	SF	B4.7	7608
26	1727	1732	1734	N09	E45	SF	C3.6	7608
27	0636	0639	0652	N09	E39	SN	C9.4	7608
27	0909	0914	0918				B4.5	
27	1130	1132	1143	N09	E36	SF	C1.0	7608
27	1457	1500	1504				B1.7	
27	1615	1621	1633				B2.3	
27	2356	0003	0006				B8.4	7608
28	0212	0620	1110				B4.6	
28	0738	0803	0829				C1.7	
28	0923	0923	0937	N08	E23	SF	C1.1	7608
28	1508	1518	1533				B7.2	
28	1727	1732	1736				B2.8	
28	1929	1939	2013				B3.3	
28	2021	2023	2033	N08	E17	SF	B4.9	7608
28	2106	2110	2112				B3.1	
29	0151	0157	0159				B6.2	
29	0200	0229	0311				B6.6	
29	0340	0346	0349				C5.7	
29	0415	0419	0423				B6.8	
29	0541	0544	0549				B3.8	
29	0801	0806	0807				B2.3	
29	1152	1154	1155				B5.3	
29	1801	1808	1814				B7.0	
29	1934	1946	1957				B4.7	
30	0009	0017	0026				B9.9	
30	0108	0115	0123				C1.1	
30	0638	0650	0707				B5.4	
30	0837	0847	0859				B5.0	
30	1022	1029	1040				C1.1	
30	1147	1150	1152				B3.1	
30	1204	1205	1209	S10	W72	SF	B4.2	7610
30	1658	1803	1842				B3.9	
31	0028	0034	0048				B6.0	
31	0245	0248	0251				B2.9	
31	0320	0336	0351				B2.7	
31	0829	0833	0839	S15	E64	SF	C1.1	7613
31	1101	1122	1312	S22	E37	2F	C5.3	7612
31	1918	1919	1924	N09	W22	SF	B3.1	7608
31	2043	2050	2104				B2.8	
31	2343	2347	2353				B2.5	

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 Daily X-Ray Background Nov 92 - Oct 93

33
Oct 93



Day	Nov 92	Dec	Jan 93	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	B6.3	B4.0	B3.3	B9.2	B4.5	B1.6	B1.4	B4.6	B2.1	B2.3	A8.0	B4.6
2	B7.9	B4.6	B3.4	B5.1	B7.6	B1.9	B2.2	B4.5	B2.8	B2.5	A5.1	B4.9
3	B4.9	B4.5	B3.3	B5.1	C1.0	B1.2	B4.2	B4.5	—	B1.9	A2.8	B2.8
4	B5.4	B4.2	B2.3	B6.3	B8.2	B1.2	B4.1	B3.9	B3.4	B1.6	A2.1	B2.3
5	B5.0	B3.6	B2.4	B8.6	B6.5	B1.7	B4.1	B4.7	B2.0	B1.2	A1.7	B3.1
6	B4.3	B3.6	B2.7	B8.1	B7.4	B3.2	B4.0	B3.6	B1.7	B1.1	A1.7	B3.4
7	B3.4	B3.3	B3.3	B7.9	B3.5	B3.6	B5.0	B3.4	B1.7	A9.8	A2.0	B4.0
8	B3.0	B6.2	B3.4	B8.5	B2.3	B4.7	B4.0	B3.4	B1.6	B1.1	A2.0	B3.7
9	B3.5	B4.5	B2.5	C1.0	B2.6	B3.9	B2.7	B3.5	B1.5	B1.5	A1.5	B3.9
10	B3.6	B5.1	B2.7	B8.2	B3.0	B5.8	B3.4	B6.8	A8.5	B1.7	A1.9	B2.8
11	B2.7	B6.1	B2.8	B8.4	B6.2	B6.1	B4.0	B5.9	A5.7	B3.3	—	B2.2
12	B2.3	B5.1	B4.9	B6.2	B6.2	B3.2	B4.0	B4.7	A5.3	B1.7	A2.2	B1.6
13	B4.3	B6.1	B6.5	B6.8	B4.0	B2.7	B3.4	B1.3	A6.6	B1.3	A3.8	B1.8
14	B3.5	B6.5	B4.4	B7.5	B3.2	B1.9	B3.2	A7.2	B1.1	B1.2	A4.5	B1.2
15	B4.5	B5.4	B3.2	B4.8	B4.6	A7.8	B2.4	A5.1	A9.5	B1.2	A3.4	A8.2
16	B7.5	B5.2	B3.9	B5.0	B2.6	A9.5	B2.1	A5.4	A9.9	B1.4	A5.6	A7.7
17	B6.7	B6.1	B3.1	B6.4	B2.0	B2.0	B1.7	A6.3	B1.1	A9.6	A4.1	---
18	B6.6	B6.2	B2.7	B5.4	B2.3	B2.8	B1.2	A6.3	B1.3	A9.9	A4.5	A5.7
19	B6.1	B5.1	B2.1	B2.4	B2.5	B3.3	A9.5	A6.5	B1.1	A7.6	A3.8	A6.2
20	B6.7	B4.8	B1.7	B2.3	B2.6	B2.8	A7.6	A9.5	B1.4	A7.1	A4.1	B1.0
21	B6.2	B4.7	B1.2	B3.6	B3.2	B2.6	A7.7	B1.2	B1.5	A7.9	A2.9	B1.2
22	B8.5	B4.0	B1.1	B3.0	B2.5	B1.9	A9.0	B1.4	B1.7	A6.7	A2.5	B1.0
23	C1.1	B3.3	B1.1	B3.4	B3.0	B2.0	B1.3	B3.0	B1.7	A7.5	A3.2	A9.9
24	B9.6	B3.3	B1.1	B3.2	B1.9	B3.7	B2.4	B6.4	B1.6	A7.7	B1.0	A8.5
25	B7.5	B2.9	B1.5	B3.0	B1.6	B3.5	B2.8	B5.5	B1.4	A6.8	B3.0	A8.2
26	B6.3	B2.4	B2.2	B2.5	B2.0	B3.7	B3.3	B4.3	B1.3	A6.2	B6.8	B1.1
27	B5.5	B2.0	B2.8	B2.2	B1.9	B3.1	B4.9	B4.7	B1.4	A6.4	B4.2	B1.0
28	B4.6	B2.3	B2.1	B2.5	B2.1	B2.7	B4.6	B3.6	B1.2	A6.0	B5.7	B1.5
29	B5.2	B2.8	B1.8		B1.9	B1.9	B4.4	B2.7	B1.2	A7.1	B4.9	B1.9
30	B5.4	B3.8	B2.0		B1.6	B1.3	B4.1	B2.5	B1.1	A8.1	B5.0	B1.4
31		B4.5	B4.2		B1.3		B4.5		B1.6	A9.4		B1.7

MASS EJECTIONS FROM THE SUN--PROXY DATA*

October 1993

Site	Mo	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
			Start	Max	End	RA*	R/Ro		
ONDR	Oct	01	0711.0		1254.3			Decimeter, Meter	IV, I N
IZMI	Oct	03	0937.6		0941.5			Meter	II CONT
LEAR	Oct	14	0644.0		0648.0			Meter	II 800km/s
KHAR	Oct	19	1002.0		1017.0	118	0.70	H-alpha	S
KHAR	Oct	19	1105.0		1140.0	114	0.54	H-alpha	S
KHAR	Oct	20	0950.0		1030.0	277	0.88	H-alpha	S
SGMR	Oct	25	2008.0		2016.0			Meter	II 1200km/s
PALE	Oct	26	0048.0		0057.0			Meter	II 900km/s
LEAR	Oct	27	0643.0		0652.0			Meter	II 1000km/s
SVTO	Oct	27	0643.0		0651.0			Meter	II 1000km/s
IZMI	Oct	28	0927.5		0929.0			Meter	II CONT

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
WROC = Wroclaw

*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

35
Oct 93

OCTOBER 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
01	DSD	0040E	0840D	N08	E44	10	4.3		03	9	9	E	LEAR	7590	
01	ASR	0320E	0950	S14	E83	10	7.4			9	9	E	LEAR	7592	
01	ASR	0623E	0834D	S15	E90	10	8.1			9	9	E	SVTO	7592	
01	AFS	0626E	1245	S12	E85	10	7.7		01	9	9	E	SVTO	7592	
01	AFS	0633E	1245	N11	E31	10	3.6		02	9	9	E	SVTO	7590	
01	BSD	0705E	0950	N10	E25	10	3.2		05	8	7	E	LEAR	7590	
01	ASR	0759E	1245	N06	W90	09	24.7			9	9	E	SVTO	7585	
01	DSD	0800E	0950	N10	E20	10	2.8		07	9	9	E	LEAR	7590	
01	DSD	0816E	1245	N10	E38	10	4.2		03	9	9	E	SVTO	7590	
01	DSD	0820E	1245	N18	W84	09	25.0		01	9	9	E	SVTO	7589	
01	DSD	0904E	1245	N10	E21	10	2.9		03	9	9	E	SVTO	7590	
01	BSL	0930	0935D	S64	E90	10	9.4	1-				C	CATA		
01	DSD	1058E	2033D	N12	E24	10	3.3		03	9	9	E	RAMY	7590	
01	AFS	1058E	2033D	N15	E29	10	3.6		01	9	9	E	RAMY	7590	
01	DSD	1059E	2033D	N12	E34	10	4.0		04	9	9	E	RAMY	7590	
01	BSD	1206E	1245	N13	E24	10	3.3		04	9	9	E	SVTO	7590	
01	BSL	1208E	1215D	S47	W90	09	24.1	1-				C	CATA		
01	DSD	1324E	2033D	N12	E18	10	2.9		05	9	9	E	RAMY	7590	
01	DSD	1350E	0042	N09	E22	10	3.2		09	9	9	E	HOLL	7590	
01	AFS	1506E	2033D	N08	E04	10	1.9		02	9	9	E	RAMY		
01	AFS	1540E	0042	N09	E04	10	1.9		01	9	9	E	HOLL		
01	ASR	1612E	2033D	S10	W90	09	25.0			9	9	E	RAMY	7585	
01	ASR	1635E	0042	N20	W90	09	24.9			8	8	E	HOLL	7589	
01	ASR	1635E	2115D	S08	W90	09	25.0			8	8	E	HOLL	7585	
01	DSD	1800E	0042	N11	E17	10	3.0		04	9	9	E	HOLL	7590	Flare Associated
02	DSD	0400E	1008	N09	E15	10	3.3		06	9	9	E	LEAR	7590	
02	AFS	0445E	1008	N08	W04	10	1.9		02	9	9	E	LEAR		
02	AFS	0514E	1008	S14	E66	10	7.2		03	9	9	E	LEAR	7592	
02	AFS	0544E	1130	N09	W04	10	1.9		01	9	9	E	SVTO		
02	DSD	0555E	1008	N08	E27	10	4.3		02	9	9	E	LEAR	7590	
02	AFS	0623E	1130	S12	E67	10	7.3		01	9	9	E	SVTO	7592	
02	DSD	0641E	0900D	N09	E28	10	4.4		04	9	9	E	SVTO	7590	
02	AFS	0641E	1130	N11	E25	10	4.1		01	9	9	E	SVTO	7590	
02	AFS	0958E	1130	S18	W24	09	30.6		01	9	9	E	SVTO		
02	DSD	1015E	1130	N08	E16	10	3.6		03	9	9	E	SVTO	7590	
02	AFS	1055E	2057	N20	W72	09	27.0		02	8	8	E	RAMY	7588	
02	AFS	1055E	2057	S17	W24	09	30.6		02	9	9	E	RAMY		
02	AFS	1059E	1652D	N09	W07	10	1.9		01	8	8	E	RAMY		
02	AFS	1059E	2057	S13	E62	10	7.1		01	9	9	E	RAMY	7592	
02	AFS	1102E	2057	N10	E24	10	4.3		02	9	9	E	RAMY	7590	
02	DSD	1103E	2057	N09	E08	10	3.1		03	9	9	E	RAMY	7590	
02	DSD	1435E	0002	N10	E06	10	3.0		05	9	9	E	HOLL	7590	
02	ADF	1627E	2057	N10	E12	10	3.6	1	07	9	9	E	RAMY	7590	
02	AFS	1627E	2057	N11	E13	10	3.7		02	9	9	E	RAMY	7590	
02	ADF	1627E	2057	N15	E10	10	3.4	1	08	9	9	E	RAMY	7590	
02	DSD	1709E	2057	N08	W09	10	2.0		01	5	9	E	RAMY		
02	DSD	1717E	2057	S06	W62	09	28.2		01	9	9	E	RAMY		
02	AFS	1717E	2057	S07	W62	09	28.2		01	9	9	E	RAMY		
02	ADF	1820E	0002	N09	E10	10	3.5	1	03	9	9	E	HOLL	7590	
02	AFS	1829E	0040	S05	W60	09	28.4		01	9	9	E	HOLL		
02	DSD	2028E	2057	S13	E52	10	6.8		03	9	9	E	RAMY	7592	
02	ADF	2050E	2057	S17	E54	10	7.0	1	13	9	9	E	RAMY	7592	
02	AFS	2315E	1002	S17	W34	09	30.4		03	9	9	E	LEAR	7593	
02	AFS	2317E	1002	S05	W67	09	28.0		02	7	9	E	LEAR		
03	DSD	0020E	0545D	N07	E13	10	4.0		02	9	9	E	LEAR	7590	
03	ADF	0055E	1002	N08	E04	10	3.3	1	04	7	9	E	LEAR	7590	
03	AFS	0750E	1318	N11	E04	10	3.6		02	9	9	E	SVTO	7590	
03	DSD	0752E	0840D	N11	E04	10	3.6		02	9	9	E	SVTO	7590	
03	DSD	0753E	1318	N11	E08	10	3.9		01	9	9	E	SVTO	7590	
03	AFS	0754E	1318	S13	E49	10	7.0		02	9	9	E	SVTO	7592	
03	AFS	0756E	1318	S18	W38	09	30.4		01	9	9	E	SVTO	7593	
03	AFS	0801E	1318	S08	W72	09	28.0		01	6	7	E	SVTO		
03	AFS	0803E	1318	N08	W19	10	1.9		01	6	8	E	SVTO	7594	
03	AFS	0835E	1002	S14	E49	10	7.1		02	9	9	E	LEAR	7592	
03	DSD	0847	0914D	N09	W04	10	3.1		06	8	8	E	LEAR	7590	
03	DSD	1130E	1618D	S19	W39	09	30.5		04	9	9	E	RAMY	7593	
03	DSD	1130E	1858D	S15	E44	10	6.8		06	9	9	E	RAMY	7590	
03	AFS	1130E	2153	N10	E08	10	4.1		01	9	9	E	RAMY	7590	

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 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
03	DSD	1130E	2153	S15	E44	10	6.8		05	9	9	E	RAMY	7592	
03	AFS	1130E	2153	S15	E46	10	7.0		01	9	9	E	RAMY	7592	
03	AFS	1130E	2153	S17	W39	09	30.5		03	9	9	E	RAMY	7593	
03	DSD	1240E	1624D	S21	W27	10	1.4		01	3	9	E	RAMY		
03	AFS	1431E	0039	S15	E45	10	7.0		02	9	9	E	HOLL	7592	
03	AFS	1434E	1818D	S18	W40	09	30.6		02	9	9	E	HOLL	7593	
03	AFS	1434E	1818D	S18	W40	09	30.6		02	9	9	E	HOLL	7593	
03	ADF	1529E	2153	N13	W02	10	3.5	1	03	9	9	E	RAMY	7590	
03	DSD	1530	1858D	N09	W02	10	3.5		04	9	9	E	RAMY	7590	Flare Associated
03	DSD	1535E	1635D	N08	W02	10	3.5		02	9	9	E	HOLL	7590	Flare Associated
03	DSD	1650E	1955D	N09	W02	10	3.5		02	9	9	E	HOLL	7590	
03	ADF	1656E	1955D	N09	W02	10	3.5	1	04	9	9	E	HOLL	7590	
03	DSD	1724E	2153	N03	W45	09	30.4		02	9	9	E	RAMY		
03	AFS	1724E	2153	N05	W46	09	30.3		02	9	9	E	RAMY		
03	DSD	1724E	2153	N05	W46	09	30.3		01	9	9	E	RAMY		
03	DSD	1728E	2237D	N04	W45	09	30.4		01	9	9	E	HOLL		
03	AFS	2004E	0039	N05	W46	09	30.4		02	9	9	E	HOLL		
03	DSD	2029	2054D	N09	E07	10	4.4		04	9	9	E	RAMY	7590	Flare Associated
03	DSD	2037E	2056D	N09	E06	10	4.3		04	9	9	E	HOLL	7590	Flare Associated
03	AFS	2320E	1000	N05	W47	09	30.4		02	9	9	E	LEAR		
03	AFS	2323E	0235D	S17	W47	09	30.4		02	7	5	E	LEAR	7593	
03	AFS	2325E	1000	N10	W04	10	3.7		04	9	9	E	LEAR	7590	
04	ADF	0604E	1000	N04	E04	10	4.5	1	07	6	5	E	LEAR	7590	
04	DSD	0725E	1456D	N09	W16	10	3.1		02	9	9	E	SVTO	7590	
04	AFS	1120E	2036	N07	W17	10	3.2		02	9	9	E	RAMY	7590	
04	DSD	1120E	2036	N08	W09	10	3.8		04	9	9	E	RAMY	7590	
04	DSD	1120E	2036	N08	W15	10	3.3		07	9	9	E	RAMY	7590	
04	AFS	1120E	2036	N10	W05	10	4.1		02	9	9	E	RAMY	7590	
04	AFS	1155E	2036	S15	E32	10	6.9		02	9	9	E	RAMY	7592	
04	BSL	1209E	1215	S26	W90	09	27.6	1-				C	CATA		
04	DSD	1215E	2036	S14	E28	10	6.6		01	9	9	E	RAMY	7592	
04	DSD	1215E	2036	S14	E30	10	6.8		02	9	9	E	RAMY	7592	
04	ADF	1215E	2036	S16	E31	10	6.9	1	05	9	9	E	RAMY	7592	
04	AFS	1245E	2036	N04	W54	09	30.5		02	9	9	E	RAMY	7595	
04	AFS	1334E	1557D	N11	E06	10	5.0		03	5	6	E	HOLL	7590	
04	DSD	1335E	2036	S17	W57	09	30.2		02	9	9	E	RAMY	7593	
04	DSF	1400U	1446U	N10	W13	10	3.6	2	06	0	0	E	RAMY	7590	
04	AFS	1405E	0038	S14	E32	10	7.0		03	9	8	E	HOLL	7592	
04	DSD	1523E	2053D	N10	W15	10	3.5		02	9	9	E	HOLL	7590	
04	ADF	2145E	0038	N10	W21	10	3.3	1	05	9	9	E	HOLL	7590	
04	DSF	2359U	1401U	S31	W31	10	2.5	2	26	0	0	E	HOLL		
05	AFS	0400E	1003	S14	E22	10	6.8		03	9	9	E	LEAR	7592	
05	ADF	0403E	1003	N10	W19	10	3.7	1	09	9	9	E	LEAR	7590	
05	DSD	0534E	1230D	S13	E18	10	6.6		02	9	9	E	SVTO	7592	
05	AFS	0534E	1605	S13	E22	10	6.9		03	9	9	E	SVTO	7592	
05	DSD	0547E	1228D	N10	W25	10	3.4		02	9	9	E	SVTO	7590	
05	AFS	0553E	1605	N11	W22	10	3.6		02	9	9	E	SVTO	7590	
05	DSD	0614E	1229D	N06	W67	09	30.2		02	9	9	E	SVTO	7595	
05	DSD	0618E	1605	S16	W66	09	30.2		01	9	9	E	SVTO	7593	
05	BSL	0722	0736	S38	W90	09	28.1	1-				C	CATA		
05	BSL	0808	0814	N74	W90	09	27.2	1-				C	CATA		
05	BSL	0821	0826	N37	W90	09	28.2	1-				C	CATA		
05	AFS	0939E	1605	N11	W19	10	4.0		02	9	9	E	SVTO	7590	
05	DSD	1207	1228D	N10	W18	10	4.1		03	9	9	E	SVTO	7590	Flare Associated
05	AFS	1235E	1605	N05	W70	09	30.3		02	9	9	E	SVTO	7595	
05	DSD	1241E	1605	N10	W29	10	3.3		04	9	9	E	SVTO	7590	
05	AFS	1407E	1658D	N08	W71	09	30.3		02	9	9	E	HOLL	7595	
05	DSD	1415E	1623D	N10	W31	10	3.3		05	9	9	E	HOLL	7590	
05	DSD	1454E	1657D	N11	W30	10	3.4		07	9	9	E	HOLL	7590	
05	DSD	1603E	1724D	N06	W71	09	30.3		04	9	5	E	HOLL	7595	
05	DSD	1619E	1709D	S14	E11	10	6.5		02	9	9	E	HOLL	7592	Flare Associated
05	DSD	1619E	1709D	S15	E13	10	6.7		02	9	9	E	HOLL	7592	Flare Associated
05	DSD	1706E	2218D	N11	W18	10	4.3		02	9	9	E	HOLL	7590	
05	DSD	2139E	0037D	N06	W75	09	30.3		05	9	9	E	HOLL	7595	
05	BSD	2150E	2254D	N11	W40	10	2.9		07	9	9	E	HOLL	7590	
06	LPS	0530E	0537	S13	E05	10	6.6			9	9	E	SVTO	7592	Flare Associated
06	DSD	0615E	1109D	N10	W42	10	3.1		04	9	9	E	SVTO	7590	

ACTIVE PROMINENCES AND FILAMENTS
OCTOBER 1993

37
Oct 93

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
06	AFS	0616E	1600	N11	W35	10	3.6		03	9	9	E	SVTO	7590	
06	DSD	0617E	1109D	N10	W23	10	4.5		01	9	9	E	SVTO	7590	
06	DSD	0620E	1157D	S15	E04	10	6.6		02	9	9	E	SVTO	7592	
06	DSD	0621E	1157D	S14	E06	10	6.7		05	9	9	E	SVTO	7592	
06	DSD	0622E	1157D	S15	E06	10	6.7		03	9	9	E	SVTO	7592	
06	AFS	0623E	1600	S12	E14	10	7.3		02	9	9	E	SVTO	7592	
06	DSD	0624E	1157D	S14	E16	10	7.5		02	9	9	E	SVTO	7592	
06	AFS	0630E	1600	N06	W79	09	30.3		02	9	9	E	SVTO	7595	
06	DSD	0635E	1109D	N09	W41	10	3.2		04	9	9	E	SVTO	7590	
06	ADF	0658E	0940D	N13	W35	10	3.6	1	03	9	9	E	LEAR	7590	
06	DSD	0708E	0940D	S14	E04	10	6.6		03	9	9	E	LEAR	7592	
06	DSD	0829	0940D	S13	E13	10	7.3		09	9	9	E	LEAR	7592	Flare Associated
06	DSD	0844E	1157D	S12	E14	10	7.4		11	9	9	E	SVTO	7592	Flare Associated
06	BSL	0916E	0935D	N33	E90	10	13.5	1-				C	CATA		
06	AFS	1001E	1600	N04	E53	10	10.4		01	9	9	E	SVTO		
06	BSL	1032E	1035	N76	W90	09	28.2	1-				C	CATA		
06	AFS	1056E	1648	N09	W36	10	3.7		02	9	9	E	RAMY	5790	
06	BSL	1103E	1110D	S76	E90	10	14.7	1-				C	CATA		
06	BSL	1105	1110D	S21	E90	10	13.4	1-				C	CATA		
06	AFS	1109E	1648	N05	E51	10	10.3		01	9	9	E	RAMY		
06	DSD	1111E	1648	S15	E05	10	6.8		02	9	9	E	RAMY	7592	
06	AFS	1111E	1648	S15	E07	10	7.0		02	9	9	E	RAMY	7592	
06	DSD	1154E	1600	N11	W28	10	4.4		03	9	9	E	SVTO	7590	
06	DSF	1159U	0824U	S16	E90	10	13.3	2	25	0	0	E	SVTO		
06	BSL	1226	1245	S21	E90	10	13.4	1				C	CATA		
06	DSD	1332E	1648	N11	W50	10	2.8		03	9	9	E	RAMY	7590	
06	ASR	1402E	1424D	N06	W90	09	29.9		9	9	9	E	RAMY	7595	
06	APR	1419E	1502D	S20	W78	09	30.6	1	9	9	9	E	RAMY	7593	
06	ASR	1419E	1600	S19	W90	09	29.8		9	9	9	E	SVTO	7593	
06	ASR	1420E	1510D	S19	W83	09	30.3		9	9	9	E	HOLL	7593	
06	DSD	1421E	2222	N11	W48	10	3.0		09	9	9	E	HOLL	7590	
06	DSF	1428U	1727U	S12	E44	10	9.9		33	0	0	E	HOLL		
06	ASR	1518E	1600	N05	W90	09	30.0		9	9	9	E	SVTO	7595	
06	APR	1610E	1648	S07	E90	10	13.4	1	9	9	9	E	RAMY		
06	ADF	1610E	1648	S14	E61	10	11.3	1	10	9	9	E	RAMY		
06	DSD	1625E	1648	N09	W30	10	4.4		02	9	9	E	RAMY	7590	
06	ASR	2218E	2222	N08	W90	09	30.2		9	9	9	E	HOLL	7595	
07	ADF	0006E	0530D	N08	W50	10	3.2	1	04	9	9	E	LEAR	7590	
07	ASR	0450E	1009	N07	W90	09	30.4		9	9	9	E	LEAR	7595	
07	AFS	0520E	1009	S16	W06	10	6.8		02	9	9	E	LEAR	7592	
07	AFS	0700E	1009	N16	W51	10	3.4		04	9	9	E	LEAR	7590	
07	BSL	0737E	0744D	S20	E90	10	14.2	1-				C	CATA		
07	BSL	0754E	0801	S19	E90	10	14.2	1-				C	CATA		
07	ASR	0758E	1022D	N06	W90	09	30.6		9	9	9	E	SVTO	7595	
07	AFS	0803E	1603	N14	W49	10	3.6		03	9	9	E	SVTO	7590	
07	DSD	0805E	1603	N11	W45	10	3.9		02	9	9	E	SVTO	7590	
07	BSL	0810	0830D	S20	E90	10	14.2	1-				C	CATA		
07	DSD	0817E	1603	S15	W10	10	6.6		02	9	9	E	SVTO	7592	
07	DSD	0915E	1009	N11	W42	10	4.2		02	9	9	E	LEAR	7590	
07	DSD	0940E	1603	N15	W53	10	3.4		02	9	9	E	SVTO	7590	
07	BSL	1007E	1109D	S19	E90	10	14.3	1-				C	CATA		
07	AFS	1150E	1603	N10	W48	10	3.9		01	9	9	E	SVTO	7590	
07	ASR	1222E	1603	S17	E90	10	14.3		9	9	9	E	SVTO		
07	BSL	1225E	1240D	S21	E90	10	14.4	1				C	CATA		
07	DSF	1245U	0656U	S16	E60	10	12.1	3				C	CATA		
07	DSD	1436E	2126D	N12	W61	10	3.0		03	9	9	E	HOLL	7590	
07	DSD	1437E	2239D	S15	W16	10	6.4		03	9	9	E	HOLL	7592	
07	ASR	1440E	0035	S21	E90	10	14.5		9	9	9	E	HOLL		
07	ADF	1440E	1603	S13	W07	10	7.1	1	05	9	9	E	SVTO	7592	
07	DSD	2300E	1003	S13	W12	10	7.0		02	7	9	E	LEAR	7592	
07	ASR	2310E	0725D	S20	E90	10	14.8		9	6	6	E	LEAR		
07	ASR	2345E	0727D	S13	E90	10	14.8		8	7	7	E	LEAR		
08	DSD	0145E	1003	N13	W60	10	3.5		01	9	9	E	LEAR	7590	
08	ASR	0650E	1003	S25	E90	10	15.2		7	7	7	E	LEAR		
08	SSB	0711		S23	W60	10	6.3		0	0	0	E	SVTO		
08	DSD	0838	0850	S15	W26	10	6.4	1				C	BUCA		
08	AFS	1130E	1938	S16	W20	10	7.0		02	9	9	E	RAMY	7592	
08	DSD	1130E	1938	S17	W23	10	6.7		02	9	9	E	RAMY	7592	

38
Oct 93

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1993

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP		Imp	Extent	Blue	Red	Obs	NOAA/ USAF	Remarks
						Mo	Day			Shift (.1 A)	Shift (.1 A)			
08	DSD	1130E	1938	S17	W27	10	6.4		04	9	9	E	RAMY 7592	
08	DSD	1225E	1938	N09	W74	10	3.0		03	9	9	E	RAMY 7590	
08	AFS	1225E	1938	N10	W61	10	3.9		01	8	9	E	RAMY 7590	
08	DSD	1235E	1938	N08	W70	10	3.3		05	9	9	E	RAMY 7590	
08	DSD	1240E	1938	N04	E24	10	10.3		03	7	8	E	RAMY 7596	
08	DSD	1250E	1938	S09	E70	10	13.8		04	9	9	E	RAMY 7598	
08	DSD	1255E	1938	S20	E78	10	14.5		04	7	5	E	RAMY 7597	
08	AFS	1329E	0034	S15	W10	10	7.8		02	9	9	E	HOLL 7592	
08	ASR	1336E	2354D	S88	E20	10	10.4			9	9	E	HOLL	
08	ASR	1510E	1938	S24	E90	10	15.6			9	9	E	RAMY 7597	
08	ADF	1630E	1938	S20	W23	10	6.9	1	04	8	9	E	RAMY 7592	
08	DSD	2040E	2328D	S16	W26	10	6.9		02	9	9	E	HOLL 7592	
08	DSF	2324U	1345U	S22	W18	10	7.6		06	0	0	E	HOLL 7592	
09	AFS	0050E	1008	S13	W24	10	7.2		06	9	9	E	LEAR 7592	
09	ASR	0540E	1008	S20	E64	10	14.1			7	7	E	LEAR 7597	
09	SSB	0900		S21	W72	10	7.4			0	0	E	SVTO	
09	AFS	0920E	1539	S17	W34	10	6.8		01	9	9	E	SVTO 7592	
09	DSD	0921E	1021D	N14	W82	10	3.2		03	9	9	E	SVTO 7590	
09	AFS	0952E	1539	S23	E74	10	15.1		01	9	9	E	SVTO 7597	
09	ADF	0957E	1539	S24	E77	10	15.4	1	04	9	9	E	SVTO 7597	
09	ADF	0959E	1539	S10	E68	10	14.5	1	06	9	9	E	SVTO 7598	
09	AFS	1018E	1539	S15	W30	10	7.1		03	9	9	E	SVTO 7592	
09	DSD	1019E	1539	S17	W36	10	6.7		01	9	9	E	SVTO 7592	
09	ADF	1102E	1411D	S14	W28	10	7.3	1	06	9	9	E	RAMY 7592	
09	AFS	1102E	1855	S17	W33	10	6.9		02	9	9	E	RAMY 7592	
09	AFS	1109E	1855	N09	W75	10	3.8		02	9	9	E	RAMY 7590	
09	AFS	1110E	1855	S21	E69	10	14.7		02	9	9	E	RAMY 7597	
09	DSD	1115E	1414D	S12	E58	10	13.8		01	9	9	E	RAMY 7598	
09	SSB	1247		S18	W71	10	7.9			0	0	E	RAMY	
09	AFS	1407E	1855	S14	W31	10	7.2		01	9	9	E	RAMY 7592	
09	DSD	1640E	2340	S15	W43	10	6.4		03	9	9	E	HOLL 7592	
09	SSB	1642		S19	W74	10	7.9			0	0	E	HOLL	
09	ASR	1742E	1839D	N08	W90	10	3.0			8	7	E	RAMY 7590	
09	APR	1743E	1855	N02	W90	10	3.0	1		9	9	E	RAMY 7590	
10	ASR	0132E	0640D	N10	W90	10	3.3			9	9	E	LEAR 7590	
10	AFS	0135E	1008	S19	E57	10	14.4		02	9	9	E	LEAR 7597	
10	ADF	0350E	1008	S16	W46	10	6.7	1	04	9	9	E	LEAR 7592	
10	BSL	0736E	0811	N56	W90	10	2.5	1-				C	CATA	
10	BSL	0747	0802	N15	E90	10	17.1	1-				C	CATA	
10	BSL	0817	0826	S65	W90	10	2.3	1-				C	CATA	
10	AFS	0825E	1239	S14	W43	10	7.1		03	9	9	E	SVTO 7592	
10	AFS	0825E	1239	S17	W48	10	6.7		01	9	9	E	SVTO 7592	
10	DSD	0852E	1239	S19	E51	10	14.3		02	9	9	E	SVTO 7597	
10	AFS	0852E	1239	S22	E57	10	14.7		01	9	9	E	SVTO 7597	
10	DSD	0855E	1239	S12	E54	10	14.4		02	9	9	E	SVTO 7598	
10	AFS	0857E	1239	N02	W01	10	10.3		02	9	9	E	SVTO 7596	
10	DSD	0912E	1239	S14	W47	10	6.8		01	9	9	E	SVTO 7592	
10	AFS	0915E	1239	S05	W21	10	8.8		01	9	9	E	SVTO	
10	BSL	1041	1056	N14	E90	10	17.2	1-				C	CATA	
10	BSL	1051	1056	S64	W90	10	2.4	1-				C	CATA	
10	AFS	1054E	2008	S15	W42	10	7.3		02	9	9	E	RAMY 7592	
10	AFS	1054E	2008	S18	W46	10	6.9		02	9	9	E	RAMY 7592	
10	DSD	1055E	2008	S18	W45	10	7.0		03	9	9	E	RAMY 7592	
10	DSD	1056E	2008	S17	W48	10	6.8		01	9	9	E	RAMY 7592	
10	BSL	1101	1101D	N54	W90	10	2.7	1-				C	CATA	
10	AFS	1106E	2008	S06	W20	10	9.0		01	9	9	E	RAMY	
10	AFS	1114E	2008	S10	E50	10	14.2		02	9	9	E	RAMY 7598	
10	AFS	1116E	1710D	S20	E56	10	14.7		02	9	9	E	RAMY 7597	
10	BSL	1200E	1240D	S38	W90	10	3.2	1-				C	CATA	
10	DSF	1240U	0644U	S33	E59	10	15.2	1				C	CATA	
10	ASR	1355E	1239	N09	W90	10	3.8			9	9	E	SVTO 7590	
10	ASR	1401E	1438D	N11	W90	10	3.8			7	8	E	RAMY 7590	
10	AFS	1452E	2349	S17	W51	10	6.7		02	9	9	E	HOLL 7592	
10	ADF	1635E	2008	S20	E55	10	14.9	1	06	9	9	E	RAMY 7597	
10	DSD	1640E	2008	S22	E56	10	15.0		04	9	9	E	RAMY 7597	
10	ADF	1640E	2008	S25	E47	10	14.3	1	02	9	9	E	RAMY 7597	
10	DSD	1655E	2008	N03	W03	10	10.5		02	5	5	E	RAMY 7596	
10	DSD	1710E	2008	S21	E54	10	14.8		01	9	9	E	RAMY 7597	

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 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
10	APR	1915E	2008	N15 E90		10 17.6	1		9	9	E	RAMY		
10	AFS	2315E	1002	S16 W57		10 6.6		03	9	9	E	LEAR	7592	
11	AFS	0235E	1002	S21 E45		10 14.5		03	9	9	E	LEAR	7597	
11	BSL	0757E	0800	S72 E90		10 19.5	1-				C	CATA		
11	BSL	0800	0809	S85 E90		10 19.7	1-				C	CATA		
11	BSL	0820	0825D	S41 E90		10 18.7	1-				C	CATA		
11	BSL	0906	0919D	S44 E90		10 18.8	1-				C	CATA		
11	ASR	0928E	1049D	N16 E90		10 18.2			9	9	E	SVTO		
11	ADF	0937E	1555	S18 E39		10 14.4	1	07	9	9	E	SVTO	7597	
11	AFS	0937E	1555	S23 E44		10 14.8		02	9	9	E	SVTO	7597	
11	AFS	0958E	1555	S14 W57		10 7.1		01	9	9	E	SVTO	7592	
11	DSD	0958E	1555	S14 W67		10 6.3		06	9	9	E	SVTO	7592	
11	DSD	0958E	1555	S17 W64		10 6.5		03	9	9	E	SVTO	7592	
11	AFS	1044E	1555	S13 E10		10 12.2		02	9	9	E	SVTO	7599	
11	BSL	1059E	1104D	S63 W90		10 3.4	1-				C	CATA		
11	AFS	1105E	1819	S15 W61		10 6.8		03	9	9	E	RAMY	7592	
11	DSD	1105E	1819	S18 W58		10 7.0		02	7	6	E	RAMY	7592	
11	DSD	1115E	1819	S21 E44		10 14.8		03	9	9	E	RAMY	7597	
11	ADF	1115E	1819	S21 E45		10 14.9	1	06	9	9	E	RAMY	7597	
11	AFS	1115E	1819	S22 E44		10 14.8		02	7	5	E	RAMY	7597	
11	BSL	1128E	1137	N72 E90		10 19.7	1-				C	CATA		
11	DSD	1147E	1819	N14 E69		10 16.7		02	9	9	E	RAMY	7600	
11	ADF	1155E	1819	S11 E36		10 14.2	1	04	5	8	E	RAMY	7598	
11	AFS	1202E	1819	S13 E10		10 12.2		02	8	9	E	RAMY	7599	
11	APR	1216E	1819	S30 W90		10 4.4	1		8	8	E	RAMY		
11	APR	1218E	1819	S10 E90		10 18.3	1		8	8	E	RAMY		
11	BSL	1223E	1228	S42 E90		10 18.9	1-				C	CATA		
11	BSL	1223E	1240D	S44 E90		10 19.0	1-				C	CATA		
11	BSL	1235	1240D	S32 E90		10 18.6	1-				C	CATA		
11	SSB	1247		237 W17		10 14.3			0	0	E	RAMY		
11	AFS	1249E	1555	S18 E38		10 14.4		03	9	9	E	SVTO	7597	
11	AFS	1330E	2251D	S29 E12		10 12.5		02	9	9	E	HOLL	7598	
11	AFS	1355E	0028	S09 E13		10 12.5		02	9	9	E	HOLL		
11	DSD	2310E	1003	S24 E36		10 14.7		03	9	9	E	LEAR	7597	
11	ADF	2315E	0028	S22 E34		10 14.6	1	04	9	9	E	HOLL	7597	
12	ADF	0130E	0354D	S18 E31		10 14.4	1	04	8	9	E	LEAR	7597	
12	DSD	0240E	0356D	S17 W73		10 6.6		03	9	9	E	LEAR	7592	
12	DSD	0613E	1346D	S25 E25		10 14.2		02	9	9	E	SVTO	7597	
12	BSL	0759E	0811	N54 W90		10 4.6	1				C	CATA		
12	BSL	0822E	0822D	S70 E90		10 20.5	1-				C	CATA		
12	BSL	0856	0901	N87 W90		10 3.9	1-				C	CATA		
12	BSL	0856	0905D	S38 E90		10 19.6	1-				C	CATA		
12	BSL	0925	0925D	N70 W90		10 4.2	1-				C	CATA		
12	DSF	1240U	0759U	N20 E16		10 13.7	1				C	CATA		
12	DSD	1250E	1346D	S19 E27		10 14.6		02	9	9	E	SVTO	7597	
12	ASR	1329E	0027	S11 W90		10 5.8			9	9	E	HOLL	7592	
12	AFS	1345E	1931	S16 W67		10 7.5		01	9	9	E	RAMY	7592	
12	ADF	1345E	1931	S20 W78		10 6.6	1	06	9	9	E	RAMY	7592	
12	ADF	1355E	1931	S21 E29		10 14.8	1	05	9	9	E	RAMY	7597	
12	AFS	1400E	1931	S24 E30		10 14.9		01	9	9	E	RAMY	7597	
12	ADF	1405E	1931	S24 E33		10 15.1	1	08	9	9	E	RAMY	7597	
12	ASR	1410E	1450D	S19 W80		10 6.5			9	9	E	RAMY	7592	
12	SSB	1629		238 W33		10 15.7			0	0	E	HOLL		
12	SSB	1654		237 W32		10 15.6			0	0	E	RAMY		
12	AFS	1659E	1931	N17 E66		10 17.7		03	9	9	E	RAMY	7600	
12	ADF	1926E	1931	N22 E64		10 17.7	1	10	9	9	E	RAMY	7600	
12	ASR	2221E	0735D	S14 W90		10 6.1			7	9	E	LEAR	7592	
13	DSD	0637E	1015D	S22 E20		10 14.8		01	9	9	E	SVTO	7597	
13	ADF	0637E	1539	S24 E23		10 15.0	1	05	9	9	E	SVTO	7597	
13	APR	0711E	0716	S24 W90		10 6.3	3		9	9	E	SVTO		
13	ASR	0711E	1428D	S13 W90		10 6.5			9	9	E	SVTO	7592	
13	BSL	0801E	0813	N17 E90		10 20.2	1-				C	CATA		
13	ASR	0840E	1010	S17 W90		10 6.5			9	9	E	LEAR	7592	
13	AFS	1057E	2125	S22 E16		10 14.7		01	9	9	E	RAMY	7597	
13	APR	1059E	1336D	S24 W90		10 6.5	3		9	9	E	SVTO	7592	
13	BSL	1108E	1113D	N14 E90		10 20.3	1-				C	CATA		
13	BSL	1108E	1113D	S35 E90		10 20.7	1-				C	CATA		

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1993

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue	Red	Obs Type	Sta	NOAA/	Remarks
										Shift (.1 A)	Shift (.1 A)			USA/ Reg#	
13	ASR	1108E	1541D	S17	W90	10	6.6			9	9	E	RAMY	7592	
13	ASR	1110E	1231D	S16	W90	10	6.6			9	9	E	SVTO	7592	
13	SSB	1121		236	W41	10	16.4			0	0	E	RAMY		
13	BSL	1158E	1201D	S35	E90	10	20.7	1-				C	CATA		
13	BSL	1220E	1223	S11	W90	10	6.7	1-				C	CATA		
13	BSL	1220E	1230D	S35	E90	10	20.7	1-				C	CATA		
13	DSD	1245E	1539	S19	E12	10	14.4		01	9	9	E	SVTO	7597	
13	APR	1400E	1539	S23	W90	10	6.6	3		9	9	E	SVTO	7592	
13	ASR	1403E	1437D	S16	W90	10	6.7			9	9	E	SVTO	7592	
13	ASR	1416E	1530D	S20	W90	10	6.7			9	9	E	HOLL	7592	
13	DSD	1417E	2125	S18	E11	10	14.4		01	9	9	E	RAMY	7597	
13	DSD	1424E	2125	N14	E48	10	17.2		01	9	9	E	RAMY	7600	
13	DSD	1458E	1737D	S24	E13	10	14.6		02	9	9	E	HOLL	7597	
13	ASR	1621E	1730D	S17	W90	10	6.8			9	9	E	HOLL	7592	
13	DSD	1740E	2125	S14	W19	10	12.3		03	9	9	E	RAMY	7599	
13	ASR	1850E	2125	S16	W90	10	6.9			9	9	E	RAMY	7592	
13	ASR	1934E	0026	S16	W90	10	7.0			9	9	E	HOLL	7592	
13	DSD	2116E	0026	N13	E44	10	17.2		03	9	9	E	HOLL	7600	
13	ADF	2120E	2125	S10	W06	10	13.4	1	04	9	9	E	RAMY		
13	DSD	2131E	0026	S25	E14	10	15.0		05	9	9	E	HOLL	7597	
14	DSD	0545E	0912D	N14	E39	10	17.2		02	9	9	E	LEAR	7600	
14	ADF	0810E	1006	N18	E43	10	17.6		03	9	9	E	LEAR	7600	
14	BSL	0857E	0911D	N86	W90	10	6.0	1-				C	CATA		
14	BSL	0907	0911D	N67	W90	10	6.3	1-				C	CATA		
14	BSL	0949E	0949D	N80	E90	10	22.8	1-				C	CATA		
14	BSL	1119E	1124	N60	E90	10	22.4	1-				C	CATA		
14	BSL	1124E	1124D	N78	E90	10	22.8	1-				C	CATA		
14	DSD	1223E	1436D	N13	E36	10	17.2		01	9	8	E	RAMY	7600	
14	AFS	1313E	2130	N12	W04	10	14.2		01	9	9	E	RAMY		
14	ADF	1440E	2130	N18	E47	10	18.2	1	04	9	9	E	RAMY	7600	
14	DSD	1700E	2130	S18	W05	10	14.3		02	9	9	E	RAMY	7597	
14	ADF	1703E	2130	N18	E38	10	17.6	1	04	9	9	E	RAMY	7600	
14	SSB	1715		236	W58	10	17.9			0	0	E	RAMY		
14	DSD	1716E	2130	N13	E32	10	17.1		02	9	9	E	RAMY	7600	
14	AFS	1745E	2130	N14	E37	10	17.5		02	9	8	E	RAMY	7600	
14	AFS	1745E	2130	N16	E40	10	17.8		02	9	8	E	RAMY	7600	
14	AFS	2330E	0545	N14	E31	10	17.3		02	8	7	E	LEAR	7600	
15	BSL	0856E	0913	N24	E90	10	22.3	1-				C	CATA		
15	BSL	0856E	0913	S13	E90	10	22.2	1-				C	CATA		
15	BSL	0917	0921	N54	E90	10	23.1	1-				C	CATA		
15	BSL	0917	0921	S52	E90	10	23.1	1-				C	CATA		
15	ADF	1040	1110	N04	E02	10	15.6	1					KHAR		
15	ADF	1105E	2123	N13	E31	10	17.8	1	06	9	9	E	RAMY		
15	ADF	1107E	2123	N18	E29	10	17.7	1	07	8	8	E	RAMY		
15	DSD	1115E	2123	N12	E24	10	17.3		02	9	9	E	RAMY	7600	
15	DSD	1117E	1410D	N13	E24	10	17.3		02	9	9	E	RAMY	7600	
15	AFS	1223E	2123	N05	E00	10	15.5		02	9	9	E	RAMY	7601	
15	DSD	1230E	2123	N03	E02	10	15.7		03	9	9	E	RAMY	7601	
15	BSD	1232E	1405D	N04	E02	10	15.7		01	9	9	E	RAMY		
15	DSD	1233E	2123	N05	E01	10	15.6		02	9	9	E	RAMY	7601	
15	AFS	1415E	2123	N12	E28	10	17.7		02	9	9	E	RAMY		
15	AFS	1531E	2123	S18	W18	10	14.3		02	9	9	E	RAMY	7597	
15	DSD	1656E	2123	S08	E80	10	21.7		02	9	9	E	RAMY	7602	
15	APR	1659E	2123	S17	E90	10	22.5	1		8	7	E	RAMY		
15	AFS	2127E	2221	N05	W04	10	15.6		02	6	9	E	HOLL		
16	AFS	0637E	1519	N04	W08	10	15.7		01	9	9	E	SVTO	7601	
16	BSL	0703E	0712	N63	W90	10	8.3	1-				C	CATA		
16	AFS	0735E	1007	N06	W11	10	15.5		02	9	9	E	LEAR	7601	
16	BSL	0833	0837	N75	W90	10	8.1	1-				C	CATA		
16	ADF	0918E	1519	S22	W23	10	14.6	1	04	9	9	E	SVTO	7597	
16	DSD	0924	1023D	S22	W25	10	14.5		02	9	9	E	SVTO	7597	Flare Associated
16	AFS	1108E	1519	N05	W12	10	15.6		02	9	9	E	SVTO	7601	
16	ADF	1110E	2105	S19	W27	10	14.4	1	09	9	9	E	RAMY	7597	
16	AFS	1112E	2034D	S19	W26	10	14.5		02	9	9	E	RAMY	7597	
16	ASR	1120E	1657D	S13	W90	10	9.7			7	9	E	RAMY		
16	DSD	1135E	1815D	N07	W16	10	15.3		02	8	9	E	RAMY	7601	
16	DSD	1141E	1519	N07	W13	10	15.5		02	9	9	E	SVTO	7601	

ACTIVE PROMINENCES AND FILAMENTS

41
Oct 93

OCTOBER 1993

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP		Imp	Extent	Blue	Red	Obs	NOAA/ USAF	Remarks
						Mo	Day			Shift (.1 A)	Shift (.1 A)				Sta	Reg#
16	DSD	1205E	1645D	S06	E69	10	21.7		03	9	9	E	RAMY 7602	
16	DSD	1205E	1645D	S09	E66	10	21.4		03	9	9	E	RAMY 7602	
16	ADF	1230E	2105	N21	E16	10	17.7	1	11	9	9	E	RAMY	
16	ADF	1230E	2105	N21	E16	10	17.7	1	15	9	9	E	RAMY	
16	ADF	1315E	1519	N13	E15	10	17.7	1	11	9	9	E	SVTO	
16	ADF	1315E	1519	N22	E19	10	18.0	1	15	9	9	E	SVTO	
16	SSB	1523		179	W26	10	22.8			0	0	E	RAMY	209 W56
16	APR	1535E	2105	N19	E90	10	23.5	1		9	9	E	RAMY	
16	AFS	1634E	2105	N03	W15	10	15.6		01	8	8	E	RAMY 7601	
16	ADF	1700E	1945	S21	W29	10	14.5	1	03	9	9	E	HOLL 7597	
16	ADF	1747E	1945	N16	E18	10	18.1	1	06	9	9	E	HOLL	
16	DSD	1815E	2031D	N06	W15	10	15.6		02	9	9	E	RAMY 7601	
17	AFS	0808E	1525	N06	W25	10	15.5		02	9	9	E	SVTO 7601	
17	DSD	0851E	1525	S08	E51	10	21.2		02	9	9	E	SVTO 7602	
17	BSL	0903	0914D	S86	W90	10	9.0	1-				C	CATA	
17	BSL	1033	1046D	N68	W90	10	9.3	1-				C	CATA	
17	ADF	1045E	1853	N21	E09	10	18.1	1	09	9	9	E	RAMY	
17	AFS	1059E	1853	N07	W26	10	15.5		01	8	7	E	RAMY 7601	
17	AFS	1108E	1853	S19	W40	10	14.4		01	9	9	E	RAMY 7597	
17	BSL	1150	1233	S06	W90	10	10.7	1-				C	CATA	
17	BSL	1155	1207	S87	W90	10	9.1	1-				C	CATA	
17	AFS	1209E	1525	S20	W41	10	14.4		02	9	9	E	SVTO 7597	
17	ASR	1215E	1419D	S07	W90	10	10.8			9	9	E	SVTO	
17	BSL	1217	1222	N06	W90	10	10.8	1-				C	CATA	
17	ADF	1409E	1853	N18	E00	10	17.6	1	08	9	9	E	RAMY	
17	DSD	1603E	1853	N15	E72	10	23.1		02	9	9	E	RAMY	
17	DSD	1634E	1853	S08	E51	10	21.5		05	9	9	E	RAMY 7602	
17	ADF	1634E	1853	S09	E57	10	22.0	1	05	9	9	E	RAMY 7602	
17	ADF	1654E	1853	S14	E57	10	22.0	1	09	9	9	E	RAMY	
17	AFS	1655E	1853	S17	E65	10	22.6		01	9	9	E	RAMY	
18	BSL	0752	0801	N62	W90	10	10.3	1-				C	CATA	
18	BSL	0806	0825	S78	E90	10	26.7	1-				C	CATA	
18	DSD	0811E	1525	S19	W56	10	14.1		02	9	9	E	SVTO 7597	
18	AFS	0819E	1525	N04	W37	10	15.6		02	9	9	E	SVTO 7601	
18	AFS	0935E	1525	S16	E57	10	22.7		02	9	9	E	SVTO	
18	BSL	1036	1040D	N11	W90	10	11.7	1-				C	CATA	
18	ADF	1039E	1525	S07	E48	10	22.0	1	06	9	9	E	SVTO 7602	
18	ADF	1101E	1221D	S21	E62	10	23.2	1	22	9	9	E	RAMY	
18	AFS	1101E	2155	S12	E54	10	22.5		02	9	9	E	RAMY 7603	
18	DSF	1117U	1221U	S21	E62	10	23.2	2	18	9	9	E	RAMY	
18	DSD	1119E	1525	S07	E42	10	21.6		03	9	9	E	SVTO 7602	
18	AFS	1123E	2155	N06	W39	10	15.5		01	9	9	E	RAMY 7601	
18	AFS	1130E	2155	S19	W52	10	14.5		02	9	9	E	RAMY 7597	
18	SSB	1210		141	W13	10	21.6			0	0	E	RAMY	176 W48
18	ADF	1500E	2155	N21	W07	10	18.1	1	08	9	9	E	RAMY	
18	DSD	1622E	2155	S17	W59	10	14.2		04	7	9	E	RAMY 7597	
18	DSD	1630E	2155	N07	W45	10	15.3		02	9	9	E	RAMY 7601	
18	ADF	1635E	2155	S10	W62	10	14.0	1	05	9	9	E	RAMY 7598	
18	DSD	1705E	2155	S08	E40	10	21.7		04	9	9	E	RAMY 7602	
18	ADF	1710E	2155	S08	E38	10	21.6	1	11	9	9	E	RAMY 7602	
18	DSD	1925E	2155	N08	E26	10	20.7		01	9	9	E	RAMY	
18	ADF	2250E	2307	S16	E42	10	22.1	1	06	9	9	E	HOLL 7602	
19	AFS	0350E	1005	N05	W48	10	15.6		03	9	9	E	LEAR 7601	
19	ADF	0520E	1005	S17	E38	10	22.1	1	05	9	9	E	LEAR 7602	
19	DSD	0525E	0910D	S20	W64	10	14.3		02	9	9	E	LEAR 7597	
19	AFS	0615E	1005	N09	E20	10	20.8		02	9	9	E	LEAR	
19	DSD	0639E	0700D	S09	E36	10	22.0		01	9	9	E	LEAR 7602	
19	ADF	0748E	0954	S06	E34	10	21.9	1	18	9	9	E	SVTO 7602	
19	BSL	0750E	1231D	S15	E44	10	22.6		02	9	9	E	SVTO 7603	
19	BSL	0807	0815	N18	E90	10	26.2	1-				C	CATA	
19	DSD	0816E	1459	S07	E29	10	21.5		05	9	9	E	SVTO 7602	
19	AFS	0818E	1005	S17	E44	10	22.7		01	9	9	E	LEAR 7603	
19	AFS	0822E	1459	S15	E45	10	22.7		01	9	9	E	SVTO 7603	
19	BSL	0837	0846D	S62	E90	10	27.3	1-				C	CATA	
19	AFS	0845E	1459	N05	W51	10	15.5		02	9	9	E	SVTO 7601	
19	DSD	0849E	1459	S18	W06	10	18.9		02	9	9	E	SVTO 7597	
19	DSD	0850E	1005	S11	E32	10	21.8		03	9	9	E	LEAR 7602	

42
Oct 93

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 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
19	DSF	0950	0954	S08	E35	10	22.0	2	10	9	9	E	SVTO	7602	
19	AFS	0950E	1459	N09	E19	10	20.8		01	9	9	E	SVTO		
19	DSD	1002	1017	S16	E41	10	22.5	1					KHAR		
19	BSL	1006E	1010	S50	E90	10	27.0	1-				C	CATA		
19	DSD	1105	1140	S09	E31	10	21.8	1					KHAR		
19	BSL	1231	1238D	N74	E90	10	27.8	1-				C	CATA		
19	AFS	1925E	2008	N06	W57	10	15.5		02	9	9	E	HOLL	7601	
19	AFS	2302E	0310D	S17	E36	10	22.7		01	9	9	E	LEAR	7603	
20	ADF	0007E	0311D	S18	W63	10	15.2	1	10	9	9	E	LEAR	7597	
20	DSD	0950E	1030D	N06	W65	10	15.5	1					KHAR		
20	ADF	1055	1130D	N05	W64	10	15.7	1					KHAR		
20	BSL	1132E	1141	N03	E90	10	27.2	1-				C	CATA		
20	BSL	1149E	1156	N22	W90	10	13.6	1-				C	CATA		
20	DSD	1206E	1704D	S17	E24	10	22.3		03	9	9	E	RAMY	7603	
20	AFS	2108E	0020	N10	W03	10	20.6		03	4	5	E	HOLL	7604	
20	AFS	2312E	1005	S17	E05	10	21.3		03	4	5	E	LEAR	7605	
20	AFS	2335E	1005	S17	E21	10	22.6		02	4	6	E	LEAR	7603	
20	DSF	2342U	1413U	S09	W14	10	19.9	2	15	0	0	E	HOLL		
21	ASR	0450E	1005	S04	W89	10	14.5			6	9	E	LEAR	7597	
21	ASR	0625E	1005	N05	W79	10	15.3			6	9	E	LEAR	7601	
21	ASR	0730E	1005	S14	E83	10	27.6			7	9	E	LEAR		
21	DSD	0855E	1241D	S16	E01	10	21.4		01	9	9	E	SVTO	7605	
21	AFS	0857E	1524	S14	W01	10	21.3		02	9	9	E	SVTO	7605	
21	AFS	0859E	1438D	N04	W74	10	15.8		01	9	9	E	SVTO	7601	
21	DSD	0931E	1524	N08	W11	10	20.6		01	9	9	E	SVTO	7604	
21	AFS	0932E	1524	S05	E00	10	21.4		01	9	9	E	SVTO	7602	
21	BSD	1200E	1211D	N05	W77	10	15.7		07	9	9	E	SVTO	7601	
21	DSF	1240U	0846U	S18	E08	10	22.1	2				C	CATA		
21	AFS	1254E	1524	S15	E15	10	22.7		01	9	9	E	SVTO	7603	
21	ASR	1417E	1805D	S23	W90	10	14.7			8	6	E	HOLL	7597	
21	ASR	1421E	1442D	S19	W90	10	14.7			9	9	E	SVTO	7597	
21	DSD	1442E	1524	N06	W79	10	15.7		02	9	9	E	SVTO	7601	
21	AFS	1455E	0018	S16	W05	10	21.2		03	9	9	E	HOLL	7605	
21	AFS	1515E	2050	S16	W04	10	21.3		01	9	9	E	RAMY	7605	
21	ASR	1516E	2050	N07	W90	10	14.9			9	9	E	RAMY	7601	
21	AFS	1518E	2050	S16	E13	10	22.6		01	9	9	E	RAMY	7603	
21	AFS	1520E	2050	N09	W15	10	20.5		01	7	7	E	RAMY	7604	
21	DSD	1530E	2050	S16	W07	10	21.1		01	9	9	E	RAMY	7605	
21	AFS	1630E	0018	S16	W14	10	20.6		02	9	9	E	HOLL	7603	
21	APR	1701E	2050	S37	W90	10	14.4	1		9	9	E	RAMY		
21	SSB	1746		447	W56	10	17.7			0	0	E	HOLL		
21	DSD	1828E	1945D	S16	W03	10	21.5		03	9	9	E	HOLL	7605	
21	ASR	2230E	1010	N06	W90	10	15.2			6	6	E	LEAR	7601	
21	AFS	2250E	1010	S16	E08	10	22.5		02	5	5	E	LEAR	7603	
21	AFS	2252E	1010	S16	W09	10	21.3		02	6	6	E	LEAR	7605	
22	DSD	0025E	0035D	S17	W08	10	21.4		01	8	8	E	LEAR	7605	
22	AFS	0515E	1010	N09	W23	10	20.5		02	9	8	E	LEAR	7604	
22	ADF	1040E	1100D	N14	E60	10	27.0	1					KHAR		
22	AFS	1106E	1710	N09	W26	10	20.5		02	9	9	E	RAMY	7604	
22	AFS	1115E	1710	S16	W15	10	21.3		02	9	9	E	RAMY	7605	
22	AFS	1123E	1710	S15	E03	10	22.7		02	9	9	E	RAMY	7603	
22	AFS	1225E	1710	S03	E29	10	24.7		01	9	9	E	RAMY	7607	
22	AFS	1402E	2319	S17	W17	10	21.3		02	9	8	E	HOLL	7605	
22	AFS	1404E	2319	S10	W26	10	20.6		01	9	9	E	HOLL	7604	
22	AFS	1407E	2319	S16	W01	10	22.5		01	7	7	E	HOLL	7603	
22	ADF	1528E	1603D	S05	W11	10	21.8	1	04	9	9	E	RAMY	7602	
22	AFS	1600E	2319	S02	E29	10	24.8		01	9	9	E	HOLL		
22	AFS	1603E	1710	S07	W11	10	21.8		02	9	9	E	RAMY	7602	
22	DSD	1606E	1710	S16	W16	10	21.4		03	9	9	E	RAMY	7605	
22	DSD	1606E	1710	S16	W21	10	21.1		01	9	9	E	RAMY	7605	
22	DSD	1616E	1710	N00	W19	10	21.2		03	9	9	E	RAMY		
22	AFS	2257E	0225D	S03	E22	10	24.6		02	9	9	E	LEAR	7607	
23	ADF	0730	1030	N26	W42	10	20.0						ATHN		
23	APR	0730	1030	S19	W90	10	16.4						ATHN		
23	ASR	0736	1126	N08	E90	10	30.1			9	9	E	SVTO		
23	AFS	0750E	1126	N09	W36	10	20.6		02	9	9	E	SVTO	7604	

ACTIVE PROMINENCES AND FILAMENTS

43
Oct 93

OCTOBER 1993

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP		Imp	Extent	Blue	Red	Obs	NOAA/USAF		Remarks
						Mo	Day			Shift (.1 A)	Shift (.1 A)		Sta	Reg#	
23	DSD	0750E	1126	S06	W25	10	21.4		02	9	9	E	SVTO	7606	
23	ADF	0750E	1126	S08	W18	10	22.0	1	05	9	9	E	SVTO	7602	
23	DSD	0750E	1126	S11	W22	10	21.7		02	9	9	E	SVTO	7602	
23	DSD	0750E	1126	S13	W09	10	22.6		02	9	9	E	SVTO	7603	
23	AFS	0750E	1126	S15	W09	10	22.6		02	9	9	E	SVTO	7603	
23	AFS	0750E	1126	S17	W25	10	21.4		02	8	7	E	SVTO	7605	
23	DSD	0750E	1126	S17	W29	10	21.1		01	9	9	E	SVTO	7605	
23	DSD	0750E	1126	S18	W20	10	21.8		01	9	9	E	SVTO	7605	
23	BSL	1052E	1107D	N08	E90	10	30.2	1-				C	CATA		
23	BSL	1052E	1107D	N22	E90	10	30.4	1-				C	CATA		
23	BSL	1157	1207	N06	E90	10	30.2	1-				C	CATA		
23	BSL	1157	1207	S58	W90	10	15.6	1-				C	CATA		
23	BSL	1157	1222D	N07	E90	10	30.2	1-				C	CATA		
23	BSL	1216	1222D	N13	E90	10	30.3	1-				C	CATA		
23	BSL	1222	1222D	N09	E90	10	30.3	1-				C	CATA		
23	AFS	1640E	2341	N09	W42	10	20.5		02	9	9	E	HOLL	7604	
23	AFS	1649E	2341	S16	W32	10	21.3		01	9	9	E	HOLL	7605	
23	AFS	2225E	1015	S16	W35	10	21.3		02	9	9	E	LEAR	7605	
23	AFS	2227E	1015	N09	W46	10	20.5		02	9	9	E	LEAR	7604	
24	DSD	0600E	1207D	N08	W46	10	20.8		02	9	9	E	SVTO	7604	
24	DSD	0605E	1208D	S18	W36	10	21.5		02	9	9	E	SVTO	7605	
24	ADF	0700	1200	N14	W59	10	19.8						ATHN		
24	APR	0705	1200	S12	E90	10	31.1						ATHN		
24	BSL	0750	0756	N85	E90	11	1.7	1-				C	CATA		
24	BSL	0805	0810	N71	W90	10	16.1	1-				C	CATA		
24	BSL	0910	0910D	S30	W90	10	17.3	1-				C	CATA		
24	BSL	0910	0910D	S53	E90	11	1.1	1-				C	CATA		
24	DSF	1015U	2208U	N28	W55	10	20.1	3	36	0	0	E	LEAR		
24	AFS	1055E	1815	N10	W50	10	20.7		02	9	9	E	RAMY	7604	
24	DSD	1057E	1815	S14	W39	10	21.5		03	9	9	E	RAMY	7605	
24	AFS	1057E	1815	S17	W41	10	21.3		01	9	9	E	RAMY	7605	
24	DSF	1238U	0715U	N14	W76	10	18.8	2	25	0	0	E	SVTO		
24	DSF	1245U	1450U	N26	W58	10	20.0		29	9	9	E	HOLL		
24	DSF	1245U	1340U	N25	W68	10	19.3	3	26	0	0	E	RAMY		
24	EPL	1339	1450D	N18	W90	10	17.7	3		9	9	E	HOLL		
24	EPL	1340E	1422D	N22	W90	10	17.6	3		9	9	E	RAMY		
24	ADF	1640E	1815	S08	W42	10	21.5	1	05	9	9	E	RAMY	7602	
24	AFS	2245E	0412D	N09	W60	10	20.4		03	9	9	E	LEAR	7604	
24	AFS	2248E	0225D	S17	W50	10	21.1		03	5	7	E	LEAR	7605	
24	DSD	2315E	0016	N10	W56	10	20.8		03	9	9	E	HOLL	7604	
24	DSD	2320E	2333D	N10	W58	10	20.6		05	9	9	E	LEAR	7604	
25	DSD	0835E	0954	N08	W65	10	20.5		02	9	9	E	SVTO	7604	
25	DSD	0835E	0954	N10	W65	10	20.5		01	9	9	E	SVTO	7604	
25	DSD	0839E	1012	N07	E62	10	30.0		01	9	9	E	LEAR		
25	DSD	0840E	1012	N04	W63	10	20.6		02	9	9	E	LEAR	7604	
25	DSD	0907E	0954	S16	W53	10	21.4		02	9	9	E	SVTO	7605	
25	AFS	0910E	0954	N10	E65	10	30.3		02	9	9	E	SVTO		
25	AFS	0913E	0954	S02	W09	10	24.7		02	9	9	E	SVTO	7607	
25	AFS	1102E	2025	N03	E66	10	30.4		01	9	9	E	RAMY	7608	
25	DSD	1110E	2025	N09	W66	10	20.5		02	9	9	E	RAMY	7604	
25	DSD	1115E	1654D	S17	W56	10	21.2		02	9	9	E	RAMY	7605	
25	DSD	1115E	2025	S15	W60	10	20.9		02	9	9	E	RAMY	7605	
25	AFS	1124E	2025	S03	W10	10	24.7		01	9	9	E	RAMY	7607	
25	AFS	1302E	2025	S15	E00	10	25.5		01	9	9	E	RAMY		
25	AFS	1354E	2213D	S13	W02	10	25.4		01	9	9	E	HOLL		
25	DSD	1430E	2025	N06	E61	10	30.2		02	9	9	E	RAMY	7608	
25	AFS	1517E	2215D	N08	E61	10	30.2		01	9	9	E	HOLL		
25	AFS	1654E	2025	S18	W58	10	21.3		02	9	9	E	RAMY	7605	
25	AFS	1705E	2025	N08	W65	10	20.8		02	9	9	E	RAMY	7604	
25	AFS	2111E	2348	S03	W16	10	24.7		02	9	9	E	HOLL	7607	
25	DSD	2114E	2348	N09	E59	10	30.3		04	9	9	E	HOLL	7608	
25	DSD	2240E	0050D	N09	E55	10	30.1		03	9	9	E	LEAR	7608	
25	AFS	2241E	1012	S16	W45	10	22.5		02	9	9	E	LEAR	7603	
25	AFS	2300E	1012	S04	W18	10	24.6		02	9	9	E	LEAR	7607	
25	AFS	2340E	0519D	N10	E14	10	27.0		01	9	9	E	LEAR		
26	AFS	0235E	0519D	N11	E37	10	28.9		01	9	9	E	LEAR		
26	AFS	0252E	1012	S14	W07	10	25.6		01	9	9	E	LEAR		

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 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	DSD	0520E	1012	N07	E51	10 30.0		02	9	9	E	LEAR	7608	
26	AFS	1052E	2113	S19	W48	10 22.8		02	9	8	E	RAMY	7603	
26	AFS	1101E	2113	S03	W24	10 24.7		01	9	9	E	RAMY	7607	
26	AFS	1106E	2113	N09	E34	10 29.0		01	9	9	E	RAMY		
26	AFS	1117E	2113	N09	W80	10 20.5		02	9	9	E	RAMY	7604	
26	BSL	1235E	1235D	N57	W90	10 18.7	1-				C	CATA		
26	ASR	1309E	2113	N08	W90	10 19.8			9	9	E	RAMY	7604	
26	DSD	1459E	2113	S03	W26	10 24.7		02	9	9	E	RAMY	7607	
26	DSD	1459E	2113	S09	W25	10 24.7		01	9	9	E	RAMY		
26	AFS	1613E	2113	S08	E45	10 30.0		02	9	9	E	RAMY	7608	
26	ADF	1613E	2113	S09	E47	10 30.2	1	02	9	9	E	RAMY	7608	
26	AFS	1617E	2113	S09	W26	10 24.7		01	9	9	E	RAMY		
26	AFS	2235E	0128D	S04	W32	10 24.5		02	9	9	E	LEAR	7607	
26	DSD	2258E	0002D	N10	E42	10 30.1		03	9	9	E	LEAR	7608	
26	DSD	2303E	0004D	S09	W30	10 24.7		02	9	9	E	LEAR		
27	DSD	0118E	0300D	N09	E41	10 30.1		02	9	9	E	LEAR	7608	
27	ASR	0440E	1010	S23	W90	10 20.2			9	9	E	LEAR	7605	
27	AFS	0642E	1337	N11	E38	10 30.1		01	9	9	E	SVTO	7608	
27	AFS	0745E	1010	N09	E37	10 30.1		02	9	9	E	LEAR	7608	
27	ADF	0957E	1325D	N10	E39	10 30.3	1	03	9	9	E	SVTO	7608	
27	AFS	0958E	1337	S04	W36	10 24.7		02	8	7	E	SVTO	7607	
27	AFS	0959E	1337	S09	W34	10 24.9		02	9	9	E	SVTO		
27	AFS	1048E	2134	N07	E36	10 30.1		01	9	9	E	RAMY	7608	
27	AFS	1057E	2134	S02	W38	10 24.6		02	8	7	E	RAMY	7607	
27	AFS	1058E	2134	S08	W35	10 24.8		03	9	9	E	RAMY	7610	
27	DSD	1058E	2134	S10	W35	10 24.8		01	9	9	E	RAMY	7610	
27	APR	1100E	2134	S15	E90	11 3.3	1		9	9	E	RAMY		
27	ASR	1320E	2134	S19	W88	10 20.8			9	9	E	RAMY	7605	
27	AFS	1600E	2349	N18	W62	10 22.9		02	9	9	E	HOLL		
27	DSD	1605E	2134	N16	W61	10 23.0		03	9	9	E	RAMY		
27	AFS	1610E	2134	N17	W62	10 23.0		02	9	9	E	RAMY		
27	DSD	1625E	2134	N10	E32	10 30.1		02	9	9	E	RAMY	7608	
27	ADF	1630E	2134	N08	E37	10 30.5	1	06	9	9	E	RAMY	7608	
27	APR	2210E	2349	S24	E90	11 3.9	1		9	9	E	HOLL		
27	ASR	2211E	2349	S17	W90	10 21.1			9	9	E	HOLL	7605	
27	ASR	2222E	0530D	S17	W90	10 21.1			9	9	E	LEAR	7605	
28	ADF	0720E	1013	N07	E28	10 30.4	1	07	8	8	E	LEAR	7608	
28	SPY	0906	0916	S16	E90	11 4.2	1					VALA		
28	APR	0907	0916	S26	E90	11 4.4	1					VALA		
28	LPS	0907E	0907D	S12	E90	11 4.2	1					VALA		
28	DSD	0928E	0945D	N08	E21	10 30.0		03	7	7	E	LEAR	7608	Flare Associated
28	APR	1000E	1013	S17	E90	11 4.2	1		8	7	E	LEAR		
28	SPY	1005	1018	S12	E90	11 4.2	1					VALA		
28	APR	1023E	1055	S26	E90	11 4.4	1					VALA		
28	SPY	1054	1122	S12	E90	11 4.2	2					VALA		
28	DSD	1056E	2059	N10	E22	10 30.1		01	9	9	E	RAMY	7608	
28	AFS	1102E	2059	S09	W48	10 24.8		01	5	6	E	RAMY	7610	
28	DSD	1104E	1708D	S01	W51	10 24.6		02	9	9	E	RAMY	7607	
28	DSD	1104E	1708D	S04	W51	10 24.6		02	9	9	E	RAMY	7607	
28	AFS	1104E	2059	S03	W50	10 24.7		01	8	7	E	RAMY	7607	
28	AFS	1109E	2059	S19	W70	10 23.1		02	9	9	E	RAMY	7611	
28	APR	1111E	1135D	S11	E90	11 4.2	1		9	9	E	RAMY		
28	ASR	1111E	1135D	S22	E89	11 4.3			9	9	E	RAMY		
28	ASR	1121E	1135D	S12	E90	11 4.2			9	9	E	RAMY		
28	LPS	1135E	1908D	S11	E90	11 4.2			9	9	E	RAMY		
28	ASR	1153E	1733D	S12	E90	11 4.3			9	9	E	RAMY		Flare Associated
28	SSB	1323		S61	W05	10 24.0			0	0	E	RAMY		375 W19
28	APR	1427E	1540D	S23	W90	10 21.7	1		9	9	E	HOLL		
28	APR	1445E	1535D	S24	W90	10 21.7	1		9	9	E	RAMY		
28	APR	1545E	2324	S13	W90	10 21.9	1		8	8	E	HOLL		
28	ASR	1801E	2324	S10	W90	10 22.0			9	9	E	HOLL		
28	DSD	1855E	2324	N10	E19	10 30.2		02	9	9	E	HOLL	7608	
28	SSB	1859		S41	W57	10 27.9			0	0	E	HOLL		
28	ASR	2023E	2059	S08	E90	11 4.6			9	9	E	RAMY		
28	DSF	2256U	2051U	S20	E40	11 1.0		15	0	0	E	HOLL		
29	AFS	0040E	1012	N10	E15	10 30.1		02	9	9	E	LEAR	7608	
29	DSD	0522E	1012	N10	E12	10 30.1		02	9	9	E	LEAR	7608	

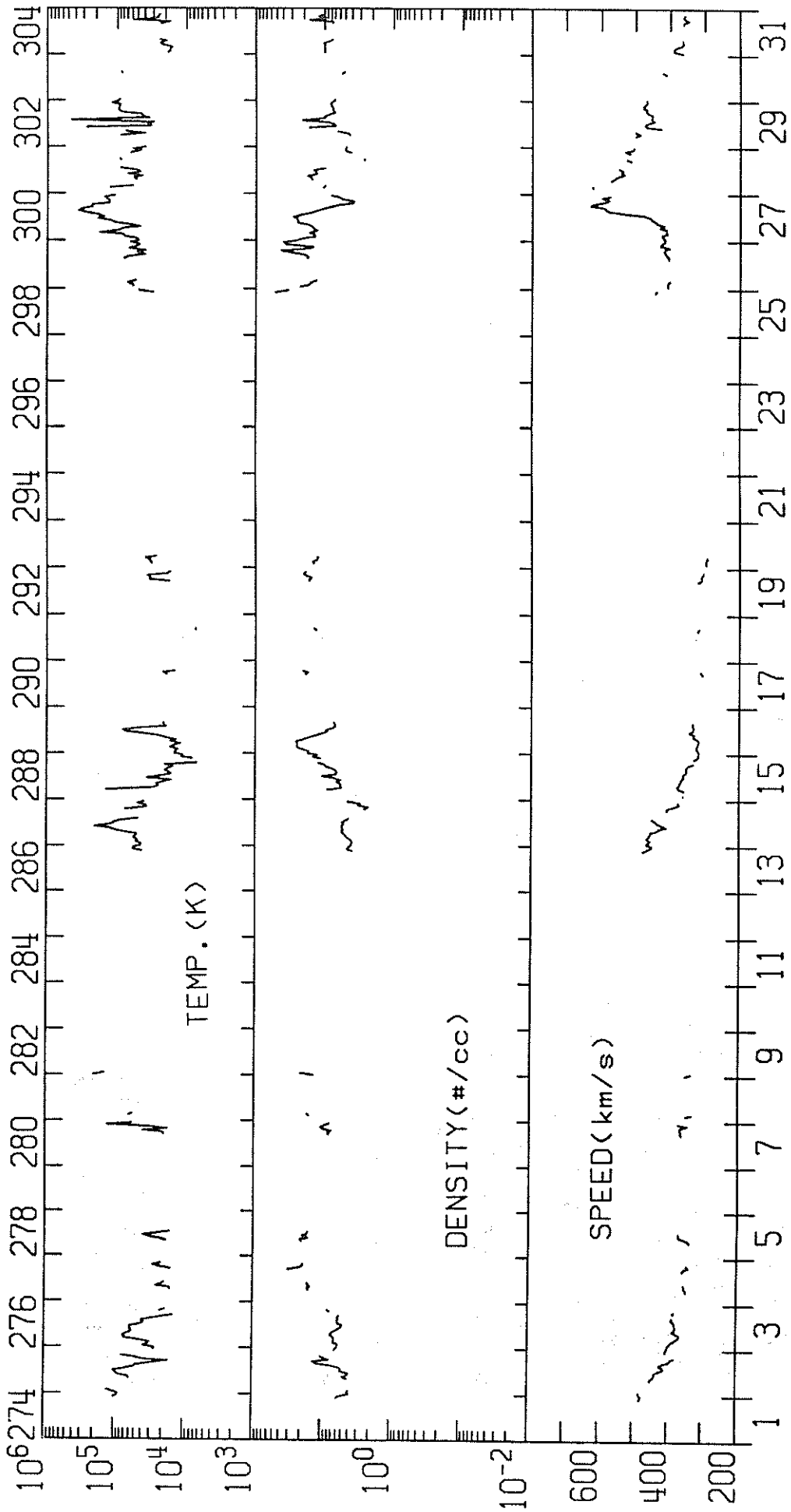
ACTIVE PROMINENCES AND FILAMENTS

45
Oct 93

OCTOBER 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
29	ASR	0715E	1012	S17	E90	11 5.1			9	5	E	LEAR		
29	ASR	0730E	1012	N17	W85	10 22.8			9	9	E	LEAR	7611	
29	DSD	0822E	1518	N09	E11	10 30.2			9	9	E	SVTO	7608	Flare Associated
29	AFS	0824E	1055D	N10	E10	10 30.1		01	9	9	E	SVTO	7608	
29	DSF	0830U	2245U	S13	E34	10 31.9	2	12	0	0	E	LEAR		
29	BSD	0852E	1124D	N16	W84	10 23.0		03	9	9	E	SVTO	7611	
29	AFS	0857E	1518	S12	E63	11 3.1		03	9	9	E	SVTO		
29	DSD	0907E	1518	S03	W64	10 24.6		01	9	9	E	SVTO	7607	
29	ASR	1052E	2042	S16	E90	11 5.3			9	9	E	RAMY		
29	AFS	1055E	2042	N09	E10	10 30.2		01	9	9	E	RAMY	7608	
29	DSD	1056E	1254D	N09	E10	10 30.2		02	9	9	E	SVTO	7608	
29	ASR	1109E	2042	N18	W90	10 22.6			9	9	E	RAMY	7611	
29	ASR	1124E	1518	N16	W90	10 22.6			9	9	E	SVTO	7611	
29	DSF	1151U	0847U	S22	E33	11 1.0	2	20	0	0	E	SVTO		
29	DSD	1238E	1645D	N10	E09	10 30.2		01	9	9	E	RAMY	7608	
29	APR	1252E	2042	S14	W05	10 29.1	1		9	9	E	RAMY		
29	AFS	1254E	1518	N09	E10	10 30.3		01	9	9	E	SVTO	7608	
29	AFS	1749E	2054	N09	E05	10 30.1		02	9	9	E	HOLL	7608	
29	ASR	1749E	2054	N18	W90	10 22.9			9	9	E	HOLL	7611	
29	ASR	1749E	2054	S13	E90	11 5.5			9	9	E	HOLL		
29	AFS	2010E	2044D	S14	W05	10 29.5		01	9	9	E	RAMY		
29	ASR	2315E	0810D	S19	E90	11 5.8			7	7	E	LEAR	7613	
30	ASR	0654E	0740D	N18	W90	10 23.4			9	9	E	SVTO	7611	
30	ASR	0807E	1310D	N17	W90	10 23.5			9	9	E	SVTO	7611	
30	ASR	1052E	1500D	S15	E90	11 6.3			9	9	E	RAMY	7613	
30	AFS	1052E	2016	S10	E73	11 4.9		02	9	9	E	RAMY	7613	
30	AFS	1052E	2016	S14	E72	11 4.9		02	9	9	E	RAMY	7613	
30	ADF	1102E	2016	S22	E47	11 3.1	1	05	9	9	E	RAMY	7612	
30	AFS	1106E	2016	N09	W04	10 30.2		01	9	9	E	RAMY	7608	
30	ASR	1211E	1308D	S11	W72	10 25.1			9	9	E	RAMY	7610	Flare Associated
30	DSD	1348E	2016	S11	E76	11 5.3		04	9	9	E	RAMY	7613	
30	APR	1618E	1710D	S19	W90	10 23.8	1		9	9	E	RAMY		
30	ASR	1932E	2016	S09	W87	10 24.3			9	9	E	RAMY	7610	
30	DSD	2340E	2355D	S11	E63	11 4.7		04	9	9	E	LEAR	7613	
31	AFS	0628E	1515	S10	E62	11 4.9		02	9	9	E	SVTO	7613	
31	AFS	0737E	1515	N08	W15	10 30.2		02	9	9	E	SVTO	7608	
31	AFS	0738E	1515	S09	E62	11 5.0		02	9	9	E	SVTO	7613	
31	DSD	0739E	1515	S12	E64	11 5.1		02	9	9	E	SVTO	7613	
31	DSD	0740E	1515	S09	E62	11 5.0		02	9	9	E	SVTO	7613	
31	DSD	0800E	1515	S10	E72	11 5.7		02	9	9	E	SVTO	7613	
31	DSD	0839E	1515	S15	E65	11 5.3		02	9	9	E	SVTO	7613	
31	DSD	0840E	0952D	S13	E59	11 4.8		04	9	9	E	LEAR	7613	Flare Associated
31	AFS	0850E	1013	S07	E53	11 4.3		01	9	9	E	LEAR		
31	AFS	0911E	1515	S08	E55	11 4.5		01	9	9	E	SVTO		
31	AFS	0919E	1013	S12	E65	11 5.3		02	9	9	E	LEAR	7613	
31	DSD	1004E	1515	N13	W04	10 31.1		02	9	9	E	SVTO		
31	ADF	1054E	1515	S11	E34	11 3.0	1	17	9	9	E	SVTO	7612	
31	DSD	1058E	2128	N11	W13	10 30.5		03	9	9	E	RAMY	7608	
31	DSD	1103E	2128	S12	E60	11 5.0		04	9	9	E	RAMY	7613	
31	AFS	1105E	2128	S12	E64	11 5.3		03	9	9	E	RAMY	7613	
31	ADF	1220E	2128	S22	E34	11 3.1	1	06	9	9	E	RAMY	7612	
31	DSD	1223E	1515	S14	E32	11 2.9		03	9	9	E	SVTO	7612	Flare Associated
31	AFS	1230E	2128	N10	W19	10 30.1		02	8	9	E	RAMY	7608	
31	DSD	1235E	1502D	S08	E51	11 4.3		03	9	9	E	RAMY		
31	ADF	1635E	2300D	S22	E32	11 3.1	1	08	9	9	E	HOLL	7612	
31	SSB	1642		S21	W07	10 30.1			0	0	E	HOLL		
31	DSD	1720E	2128	S14	E64	11 5.5		03	9	9	E	RAMY	7613	
31	DSD	1722E	2128	S16	E54	11 4.8		04	9	9	E	RAMY	7613	
31	SSB	1735		S21	W07	10 30.1			0	0	E	RAMY		
31	AFS	2042E	2128	S08	E46	11 4.3		01	9	9	E	RAMY	7614	
31	ADF	2212E	2215D	S11	E55	11 5.1	1	07	9	9	E	HOLL	7613	
31	DSD	2235E	0148D	S11	E54	11 5.0		04	7	7	E	LEAR	7613	
31	DSD	2252E	2320D	N10	W24	10 30.1		03	8	8	E	LEAR	7608	
31	AFS	2355E	0158D	S11	E52	11 4.9		03	9	9	E	LEAR	7613	

IMP 8 SOLAR WIND PLASMA
OCTOBER 1993



OCT 1993

IMP 8
MIT
ONE-HOUR AVERAGES

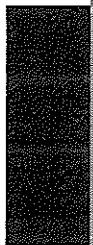
CONTENTS

Comprehensive Reports

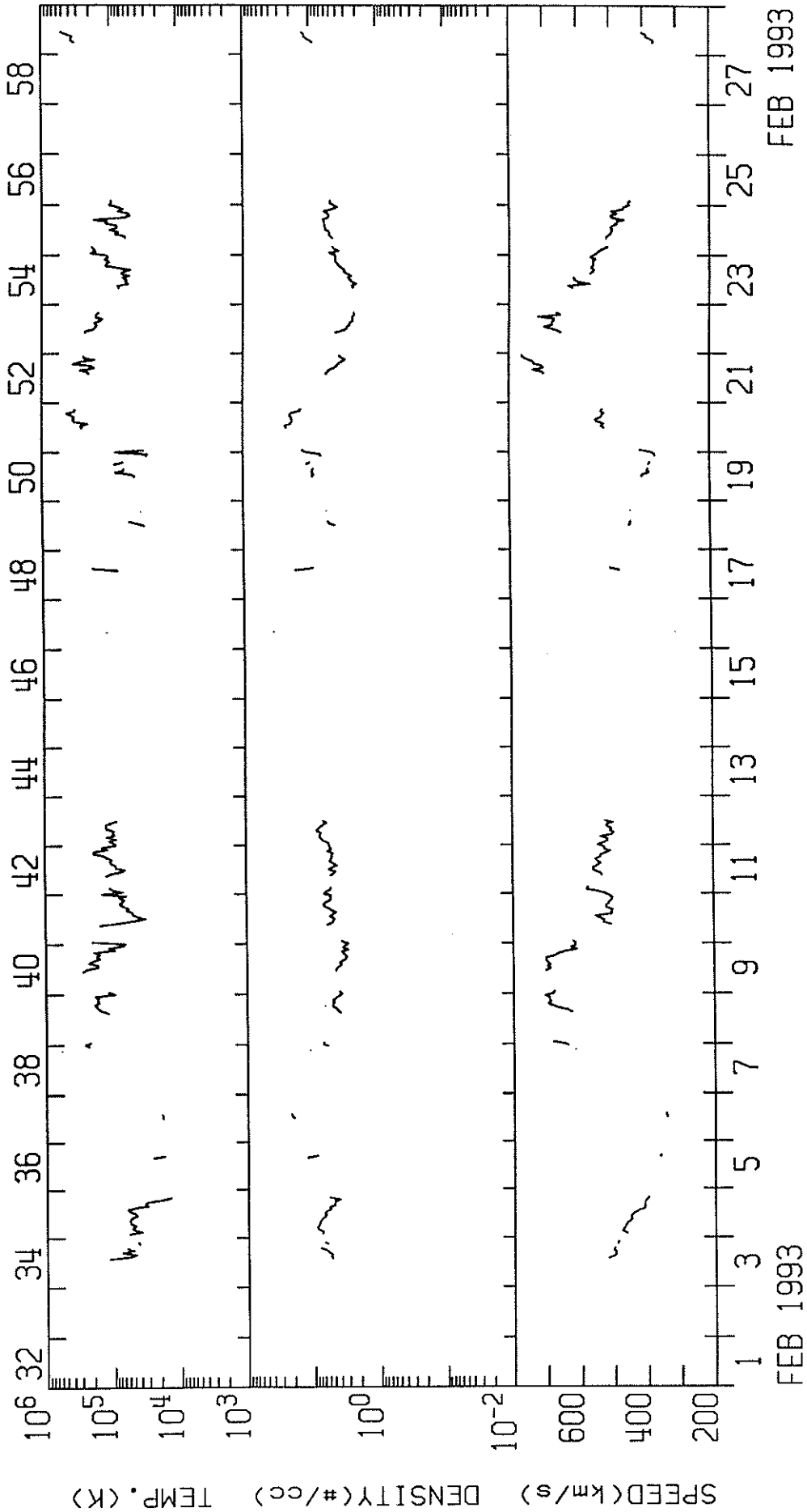
Number 596 Part II

MISCELLANEOUS DATA

	Page
INTERPLANETARY SOLAR WIND	
IMP-8 Plots February-September 1993	48-55
INTERPLANETARY ENERGETIC PARTICLES	
Fluxes from SAMPEX January-June 1993	56-67



IMP 8 SOLAR WIND PLASMA
FEBRUARY 1993

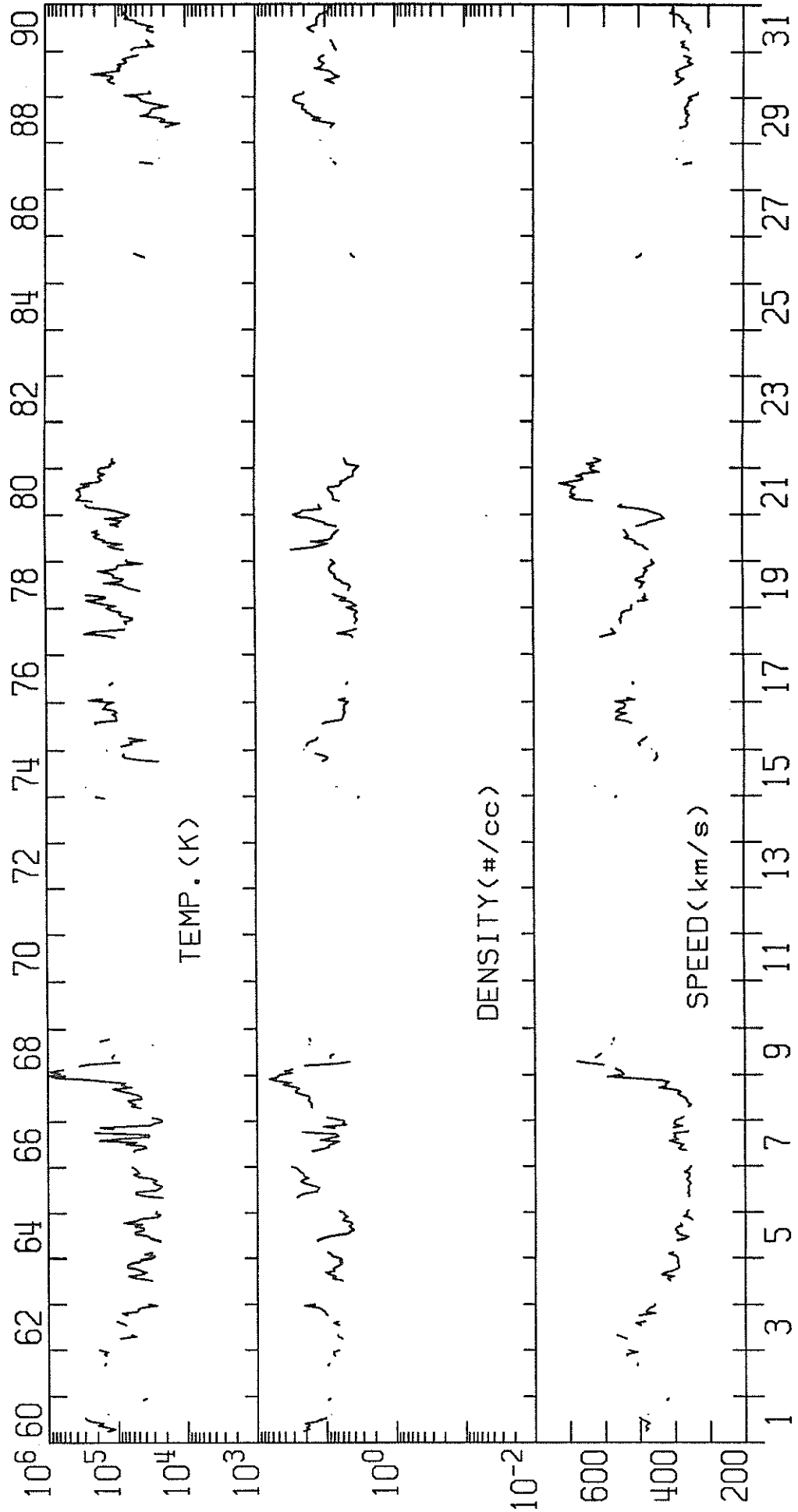


ONE-HOUR AVERAGES

MIT

IMP 8

IMP 8 SOLAR WIND PLASMA
MARCH 1993

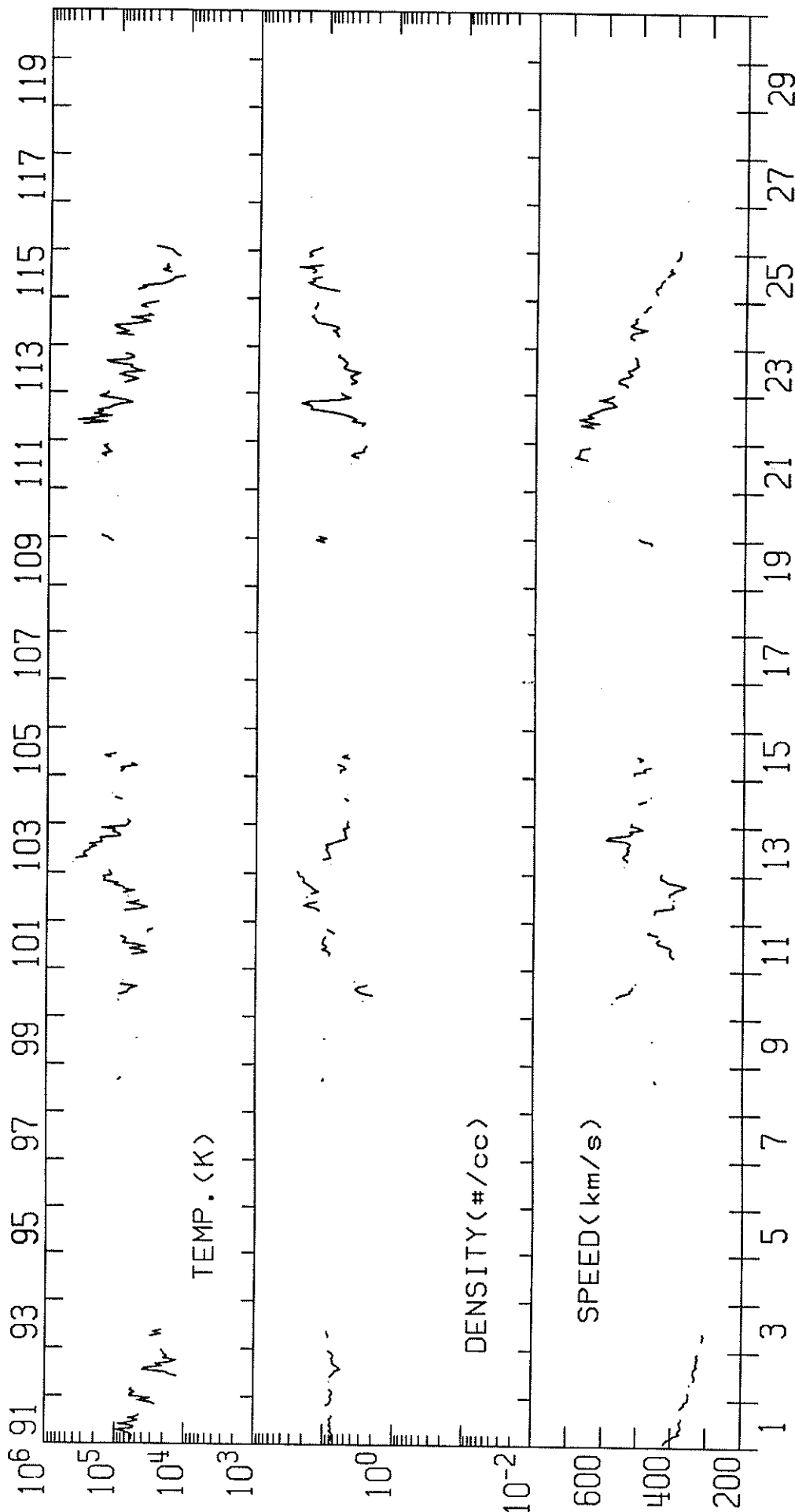


MAR 1993

MAR 1993

IMP 8 MIT ONE-HOUR AVERAGES

IMP 8 SOLAR WIND PLASMA
APRIL 1993



APR 1993

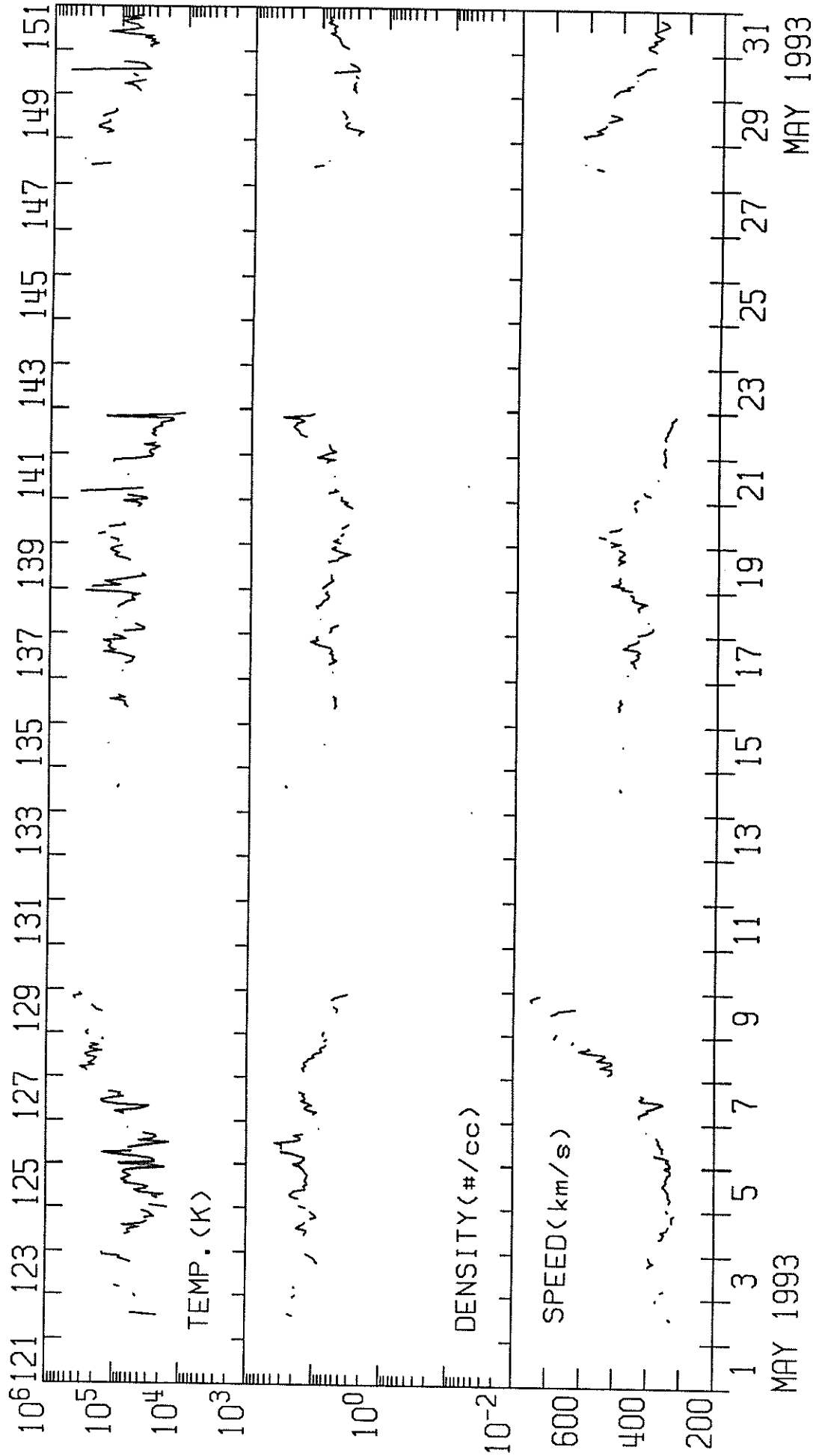
APR 1993

IMP 8

MIT

ONE-HOUR AVERAGES

IMP 8 SOLAR WIND PLASMA
MAY 1993



MAY 1993

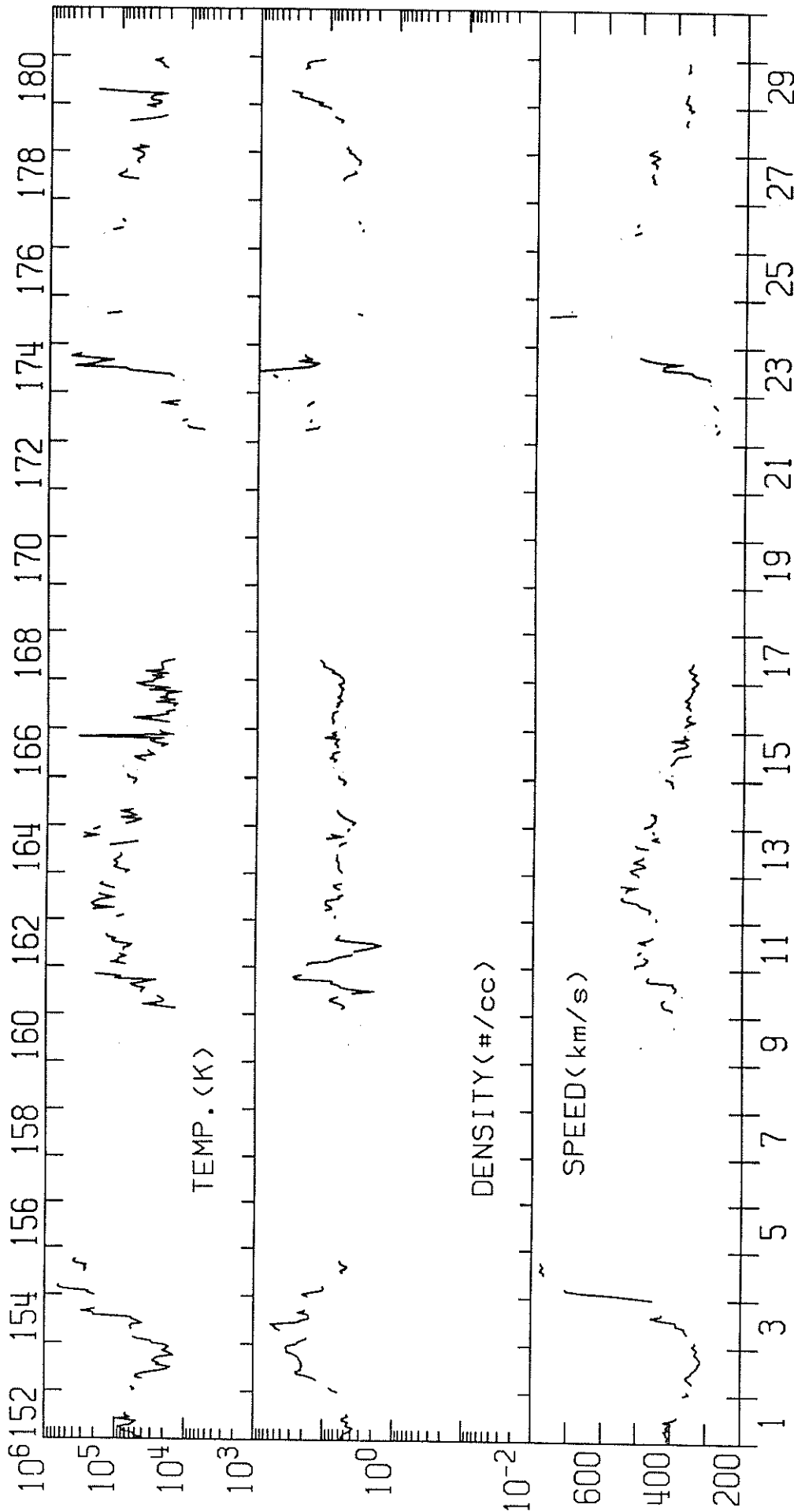
IMP 8

MIT

ONE-HOUR AVERAGES

MAY 1993

IMP 8 SOLAR WIND PLASMA
JUNE 1993



JUN 1993

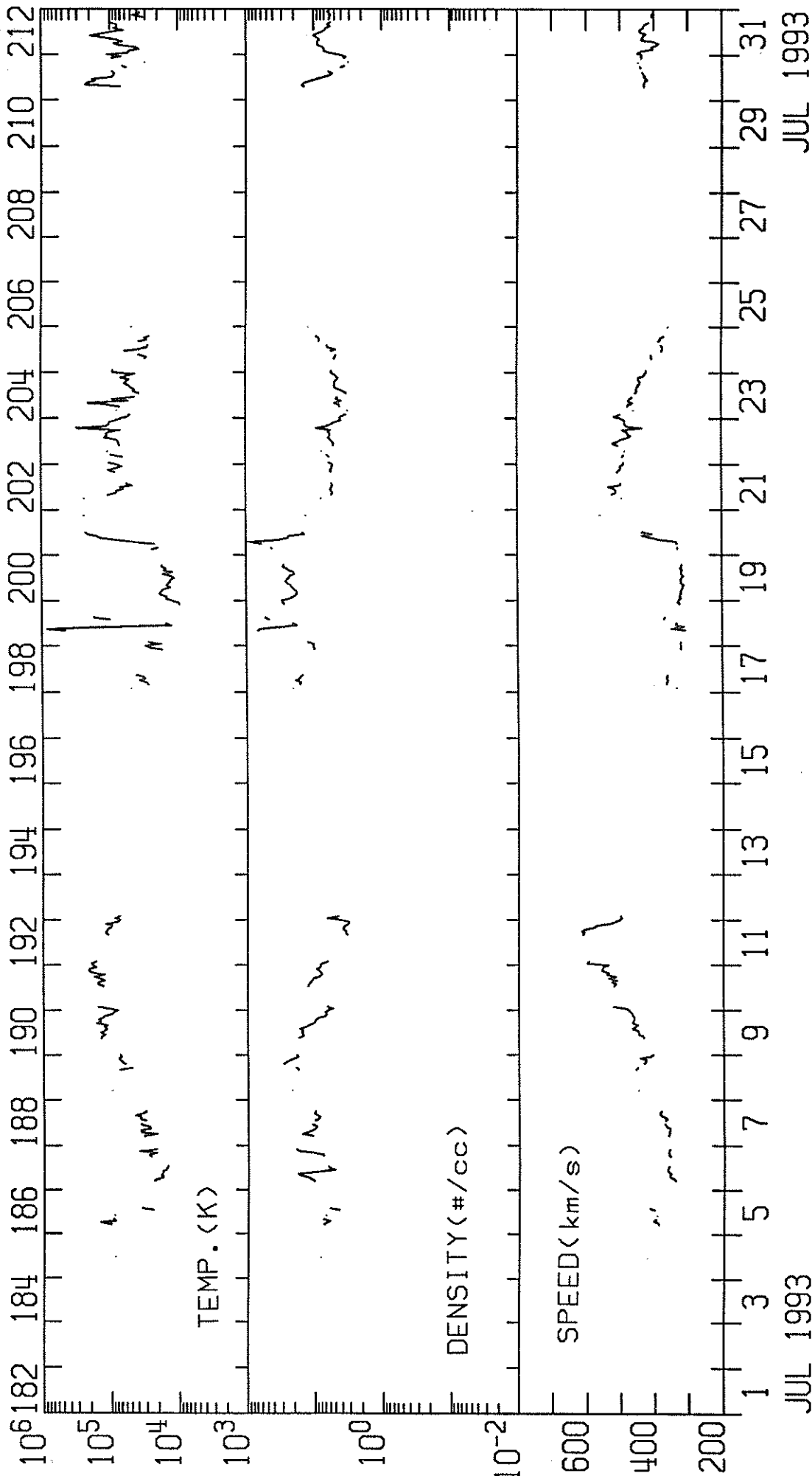
JUN 1993

IMP 8

MIT

ONE-HOUR AVERAGES

IMP 8 SOLAR WIND PLASMA
JULY 1993



JUL 1993

IMP 8

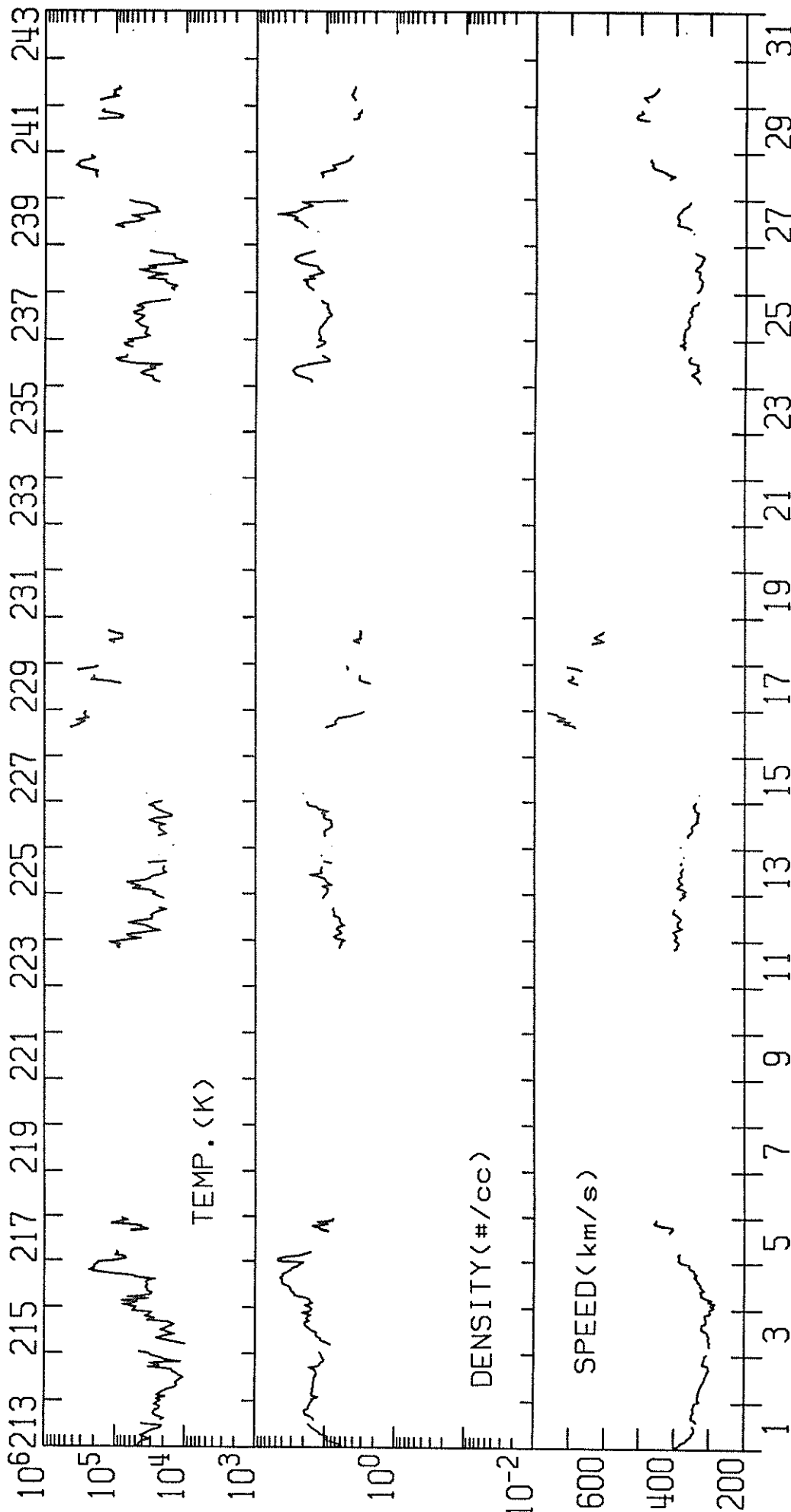
MIT

ONE-HOUR AVERAGES

JUL 1993

53
Late
Jul 93

IMP 8 SOLAR WIND PLASMA
AUGUST 1993



AUG 1993

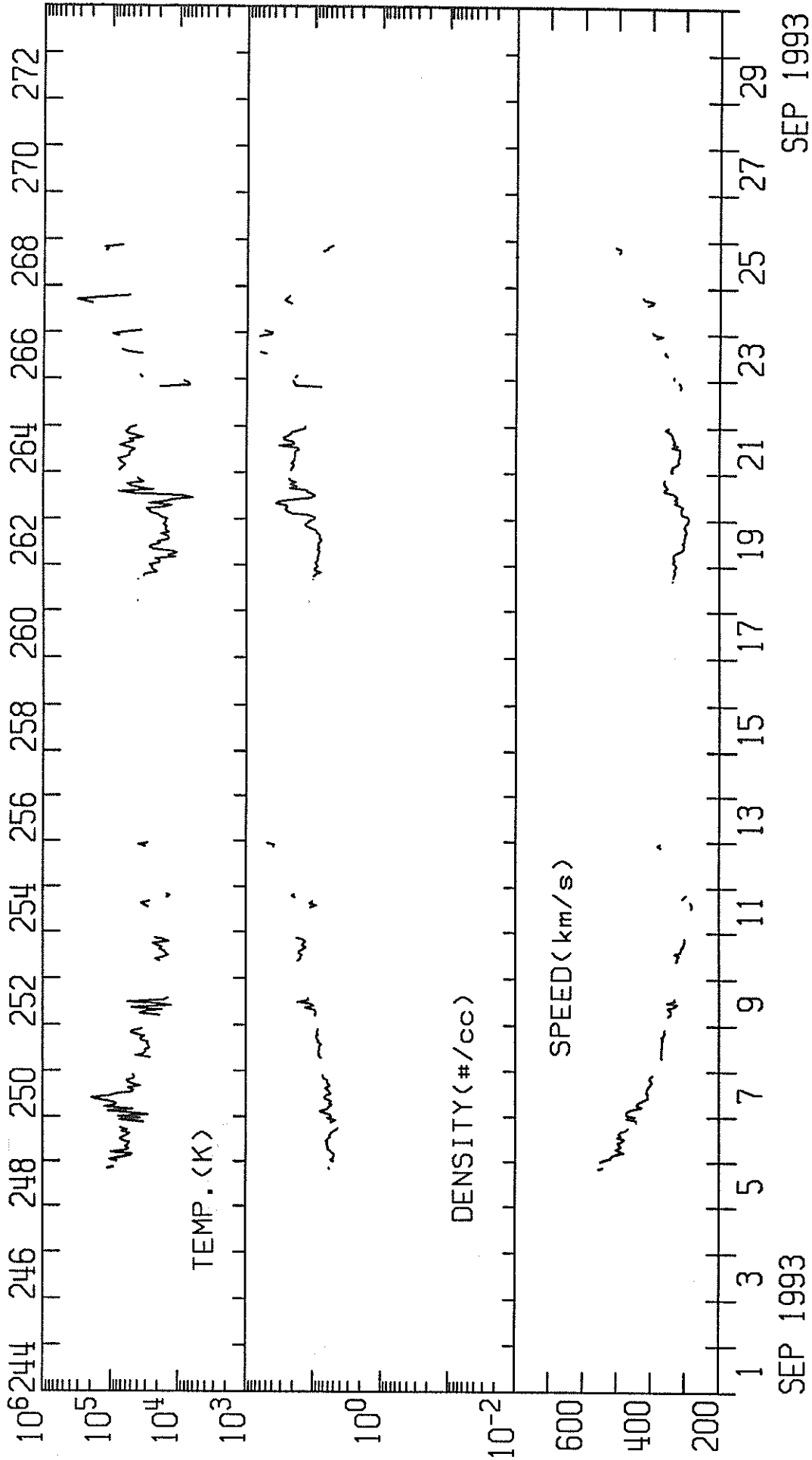
AUG 1993

IMP 8

MIT

ONE-HOUR AVERAGES

IMP 8 SOLAR WIND PLASMA
 SEPTEMBER 1993

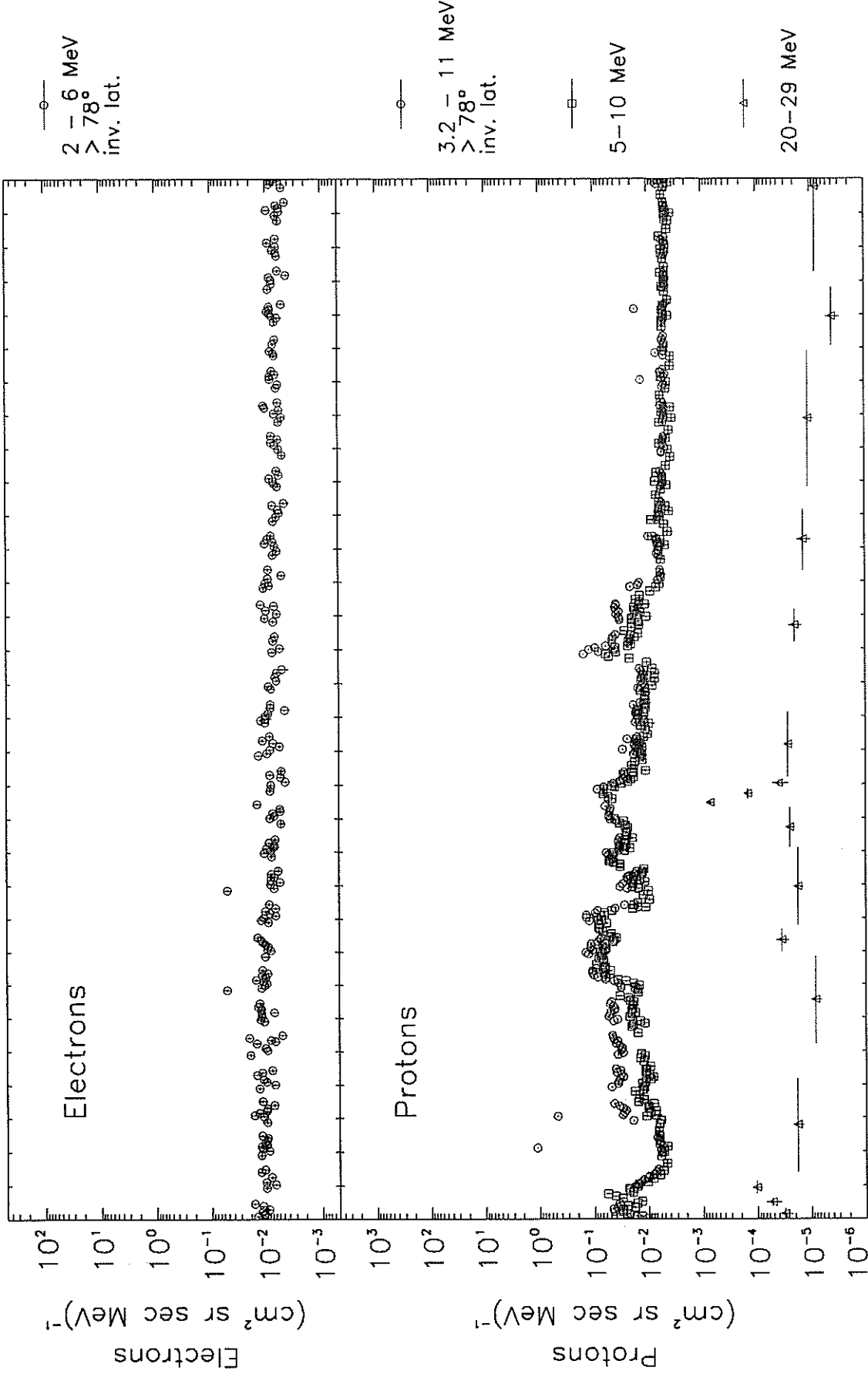


IMP 8

MIT

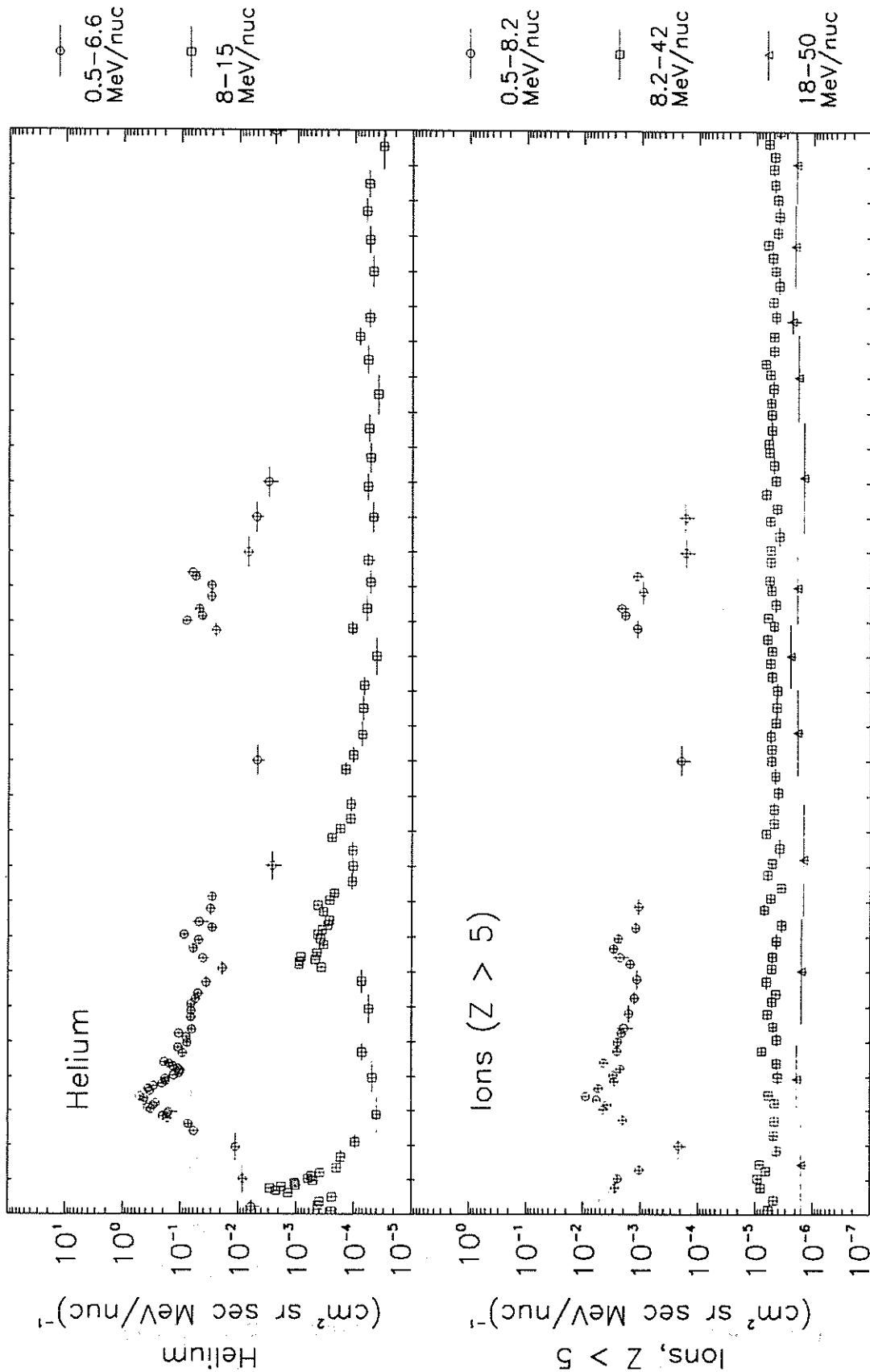
ONE-HOUR AVERAGES

Selected Particle Fluxes from SAMPEX
Polar averages ($> 70^\circ$ invariant latitude except where noted)



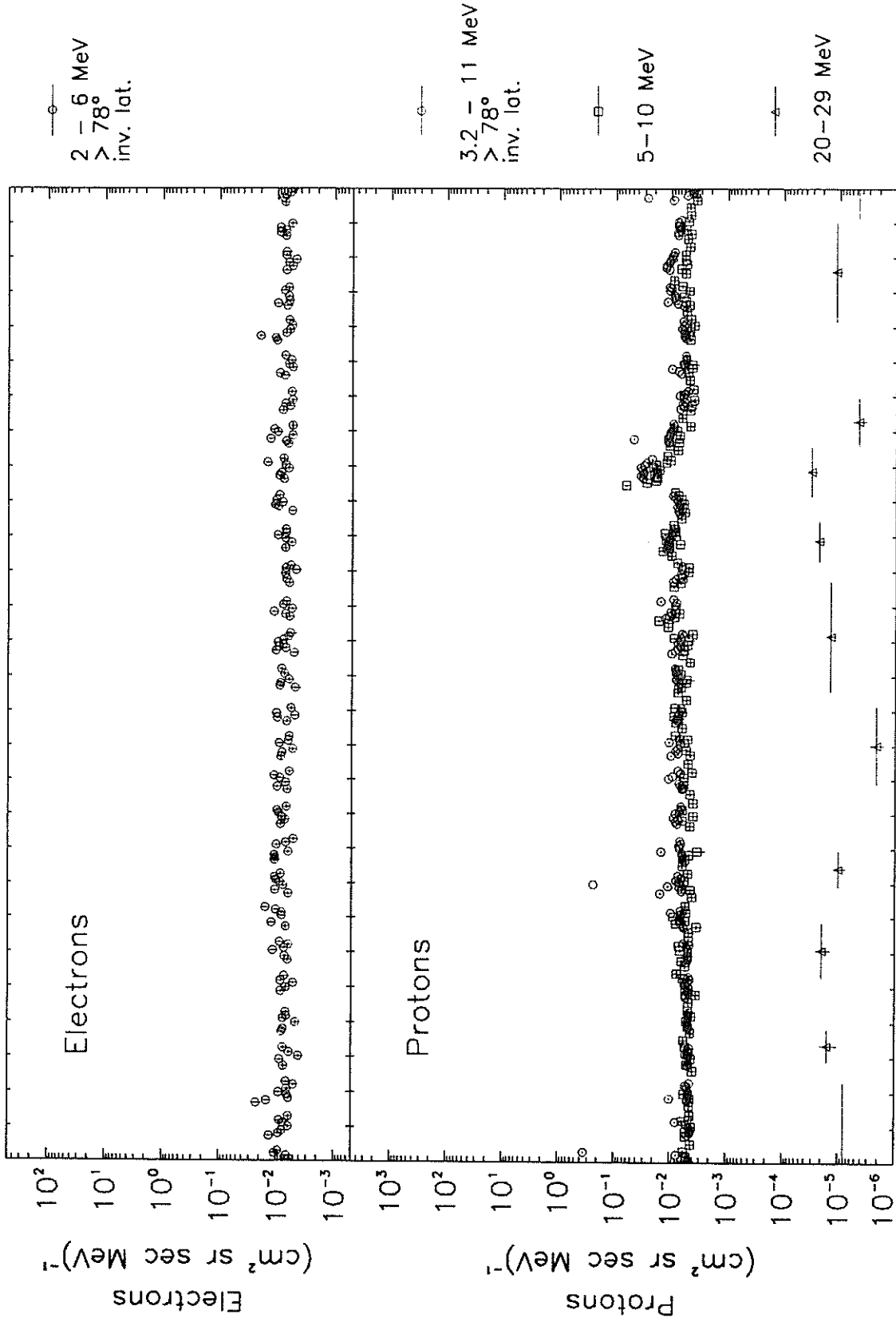
1993
day: 1 6 11 16 21 26 31
Jan 1 Jan 6 Jan 11 Jan 16 Jan 21 Jan 26 Jan 31

Selected Particle Fluxes from SAMPEX
 Polar averages ($> 70^\circ$ invariant latitude except where noted)



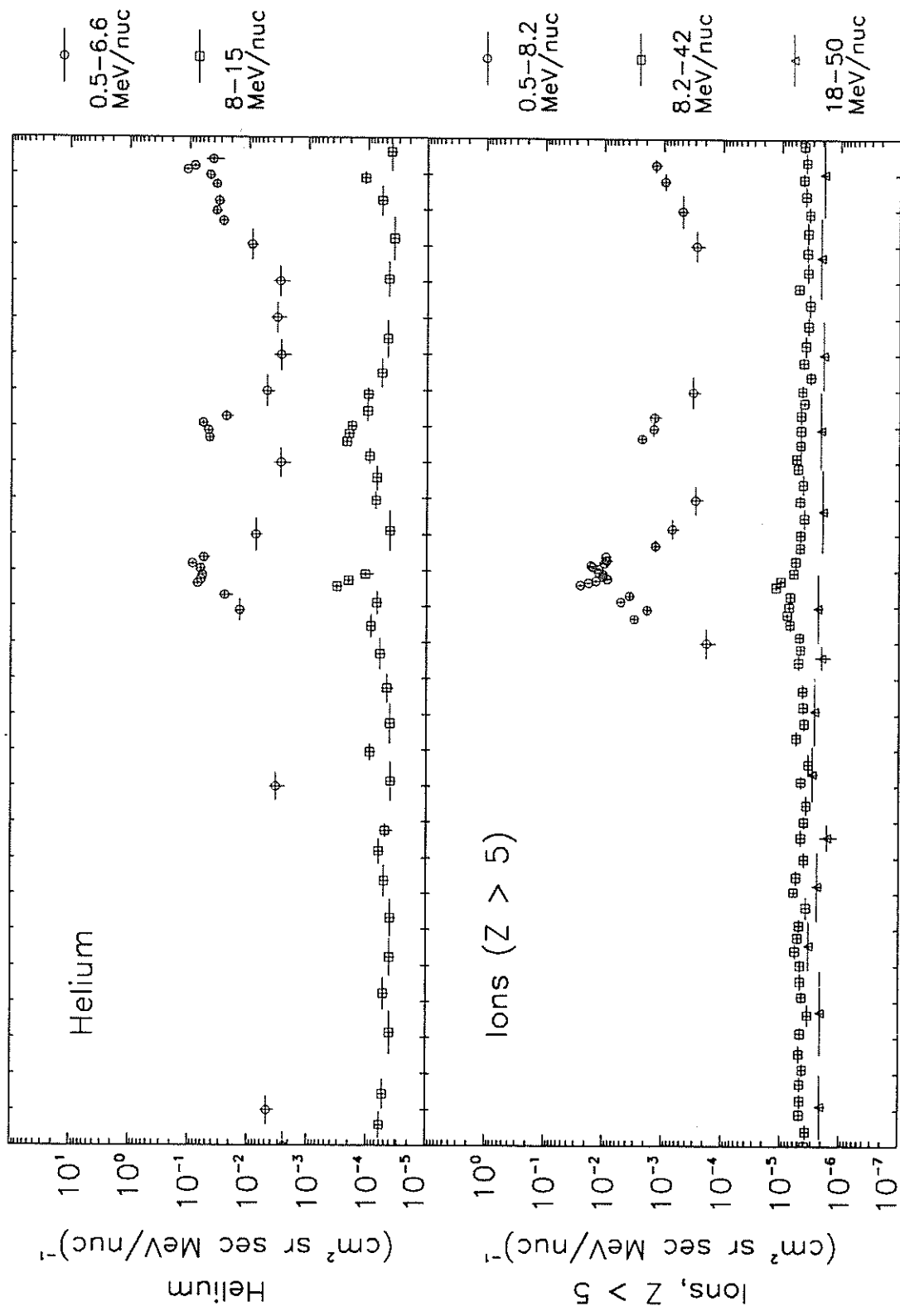
1993
 day: 1 6 11 16 21 26 31
 Jan 1 Jan 6 Jan 11 Jan 16 Jan 21 Jan 26 Jan 31

Selected Particle Fluxes from SAMPEX
Polar averages ($> 70^\circ$ invariant latitude except where noted)



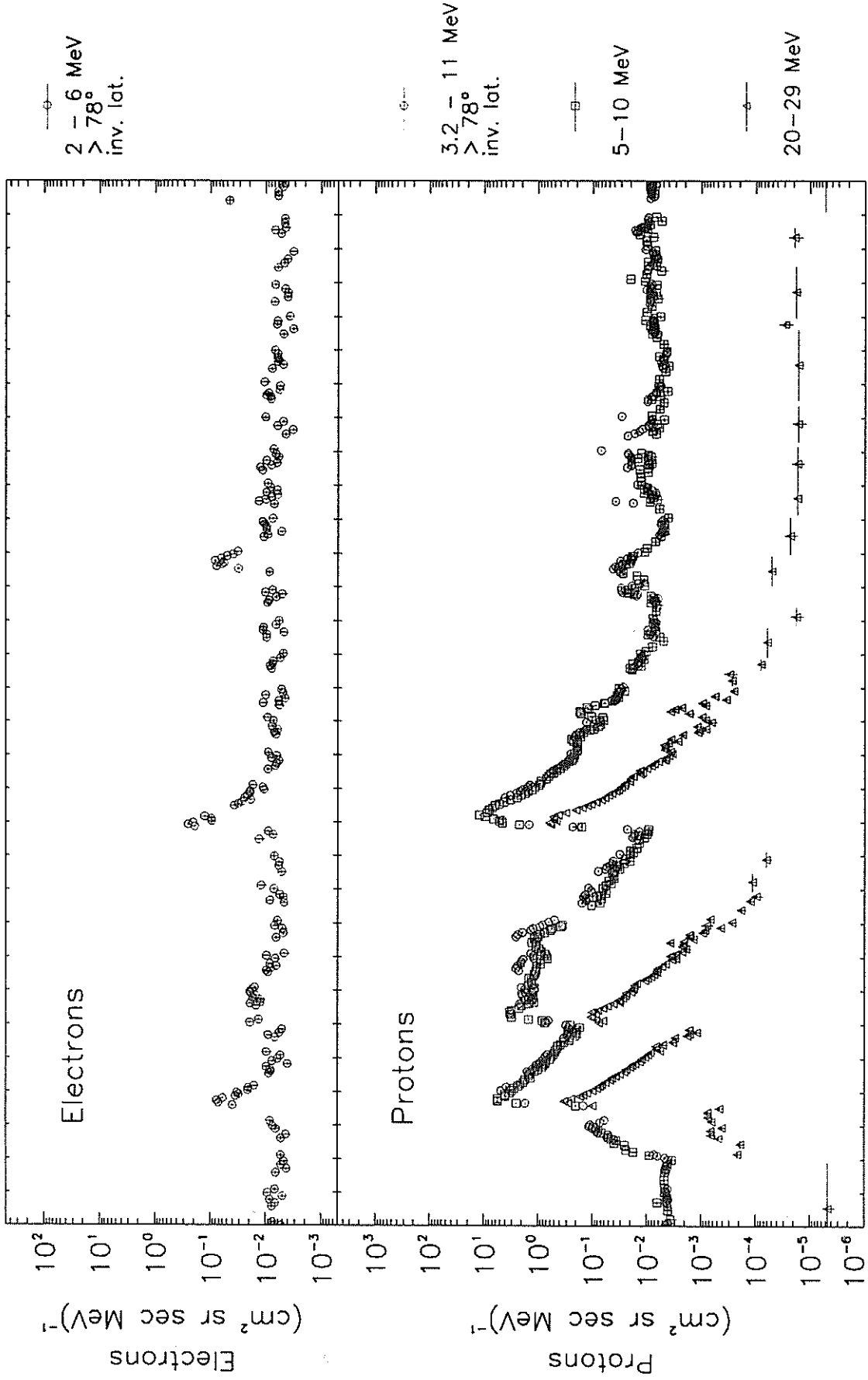
1993 32 37 42 47 52 57
day: Feb 1 Feb 6 Feb 11 Feb 16 Feb 21 Feb 26

Selected Particle Fluxes from SAMPEX
Polar averages (> 70° invariant latitude except where noted)



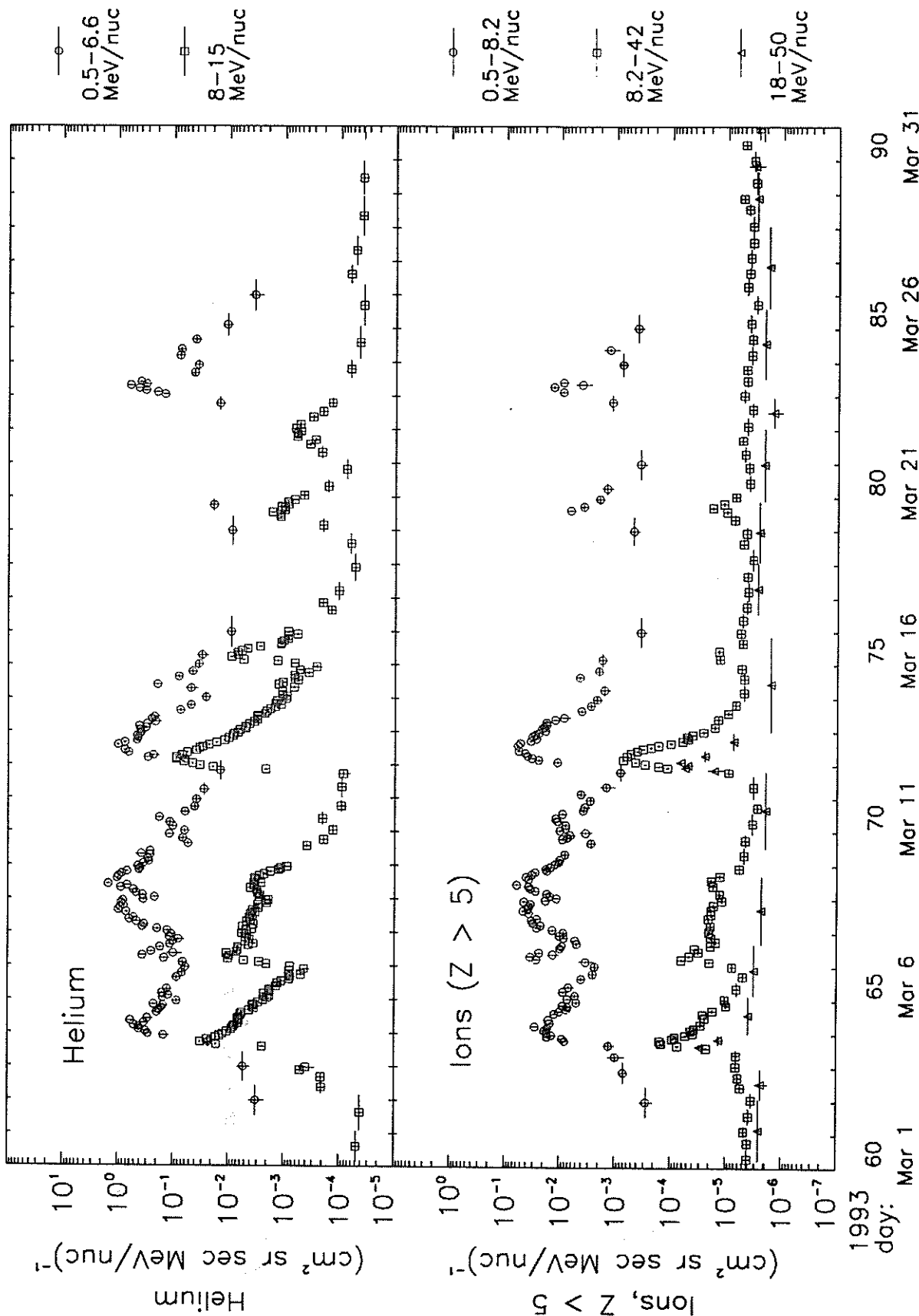
1993 day: Feb 1 Feb 6 Feb 11 Feb 16 Feb 21 Feb 26
 32 37 42 47 52 57

Selected Particle Fluxes from SAMPEX
Polar averages (> 70° invariant latitude except where noted)



1993 day: Mar 1 60 Mar 6 65 Mar 11 70 Mar 16 75 Mar 21 80 Mar 26 85 Mar 31 90

Selected Particle Fluxes from SAMPEX
Polar averages ($> 70^\circ$ invariant latitude except where noted)

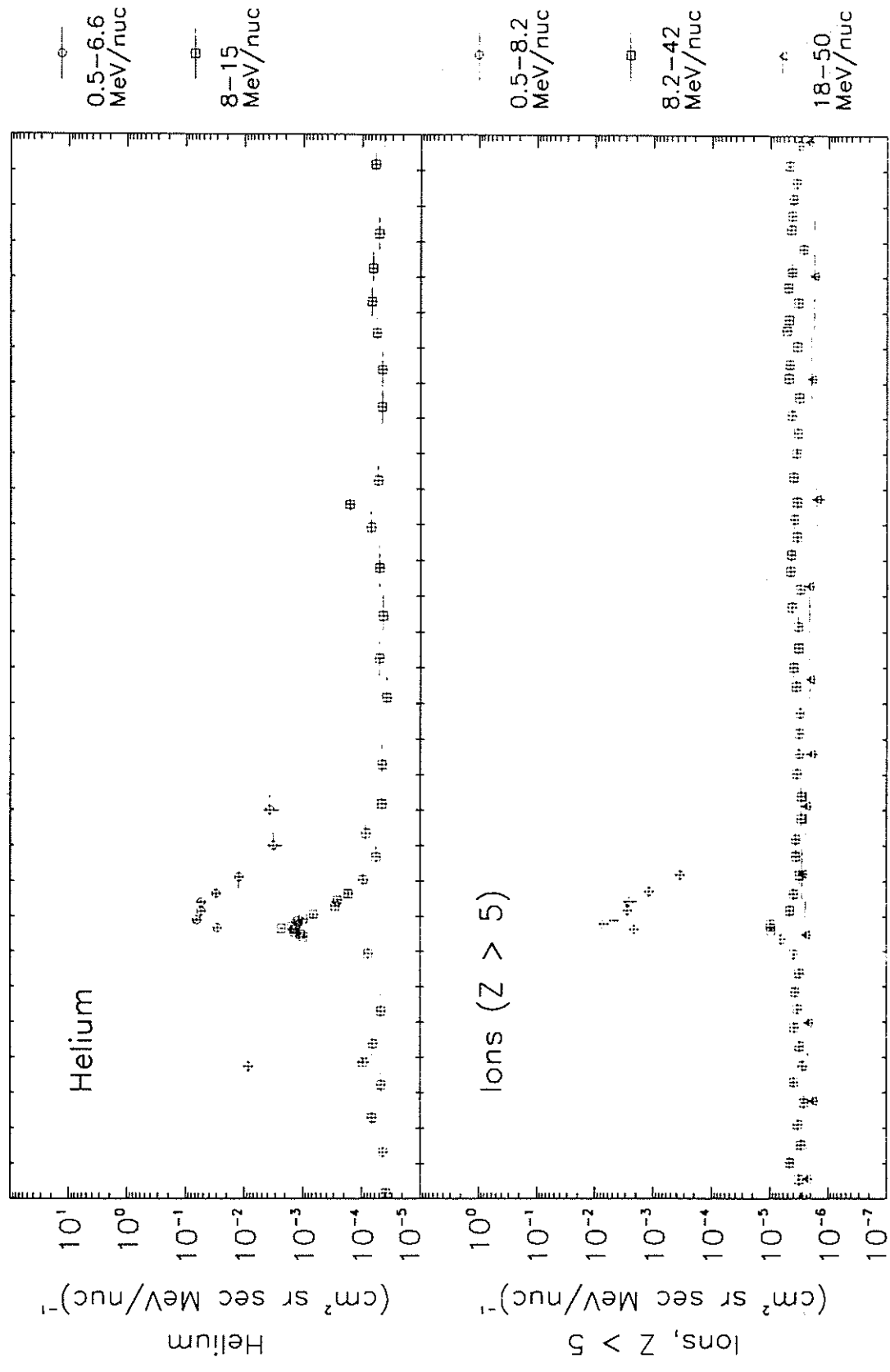


Selected Particle Fluxes from SAMPEX
Polar averages (> 70° invariant latitude except where noted)



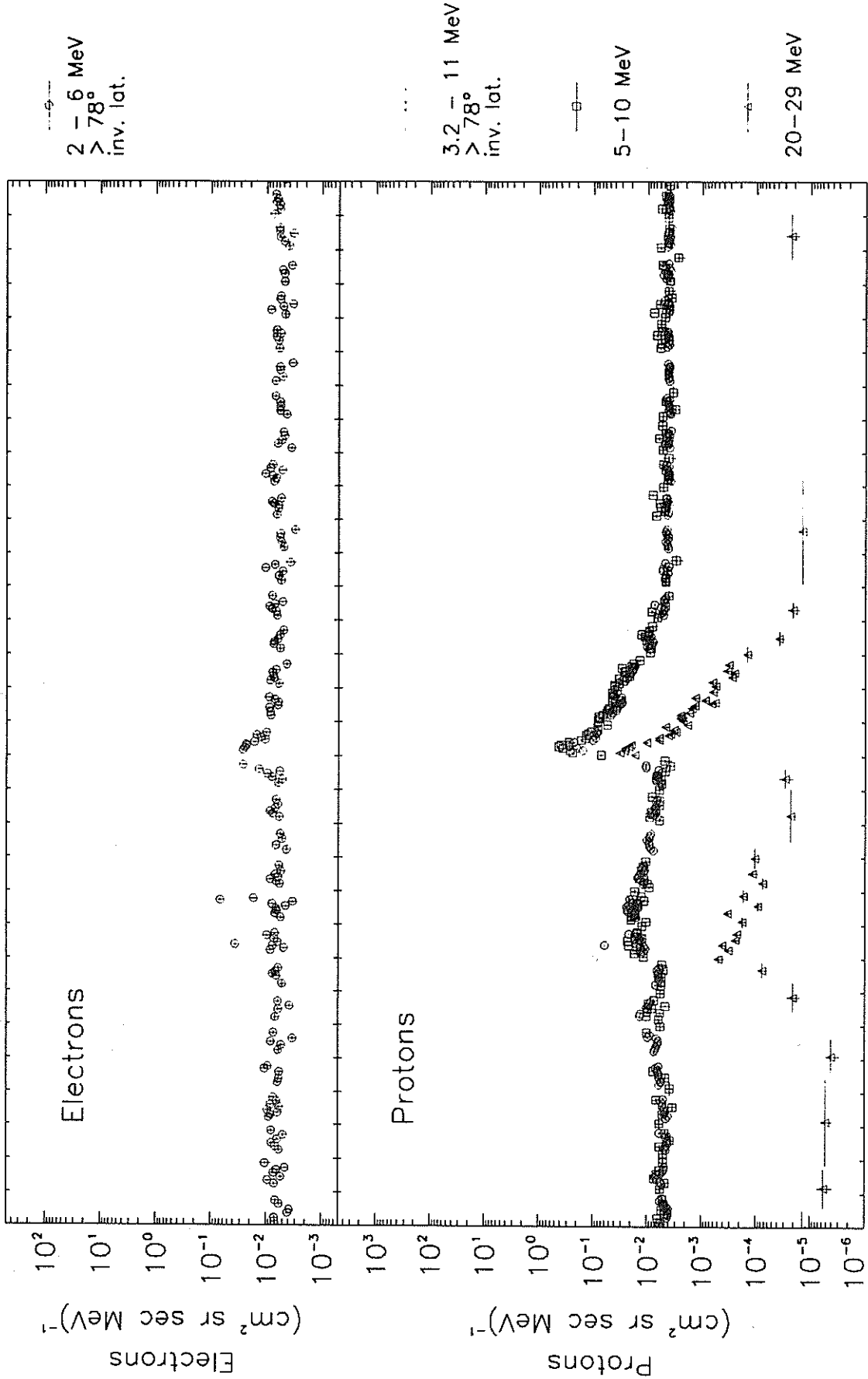
1993 day: 91 Apr 6 96 Apr 11 101 Apr 16 106 Apr 21 111 Apr 26 116

Selected Particle Fluxes from SAMPEX
 Polar averages (> 70° invariant latitude except where noted)



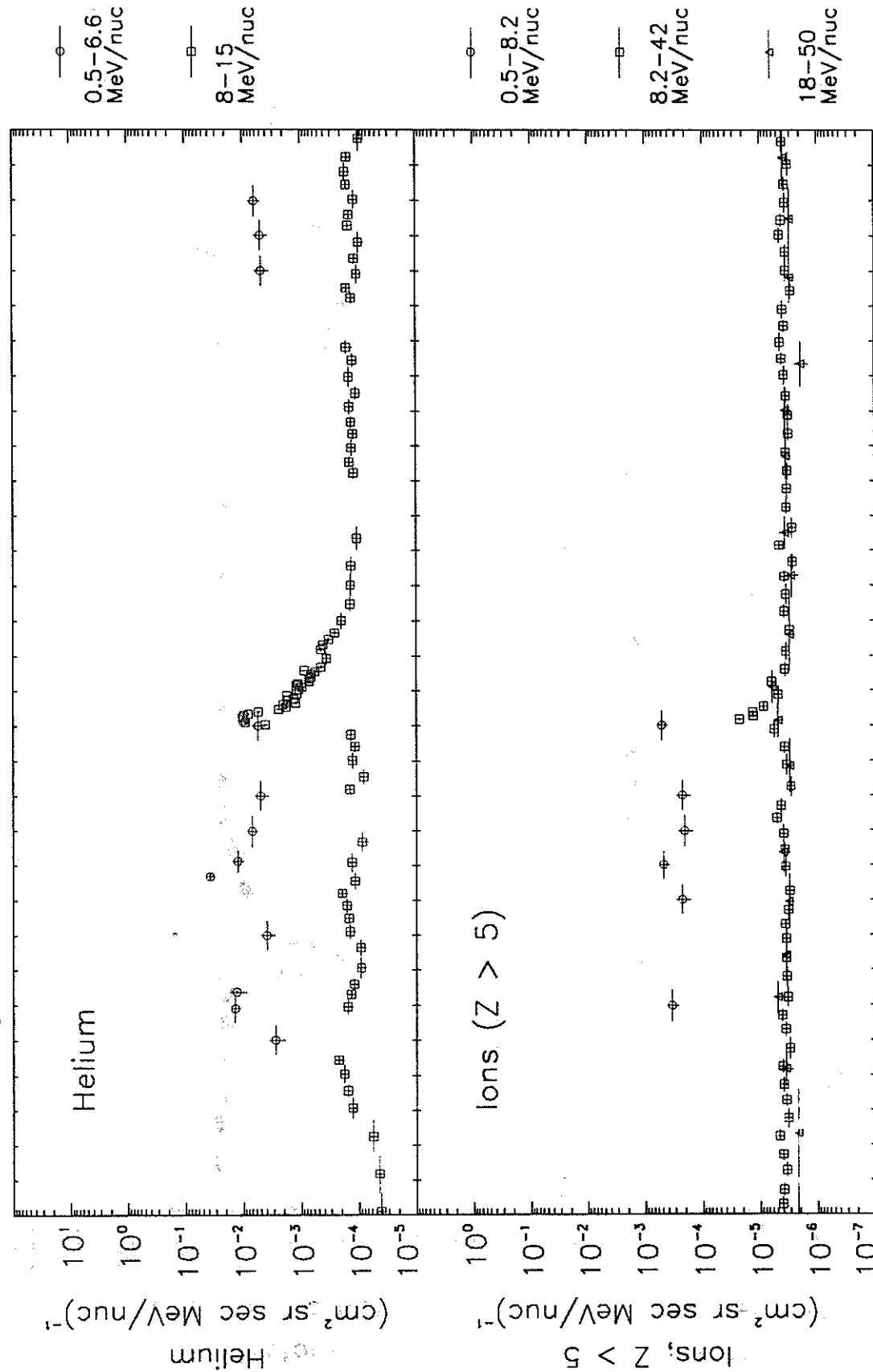
1993 91 96 101 106 111 116
 day: Apr 1 Apr 6 Apr 11 Apr 16 Apr 21 Apr 26

Selected Particle Fluxes from SAMPEX
Polar averages ($> 70^\circ$ invariant latitude except where noted)



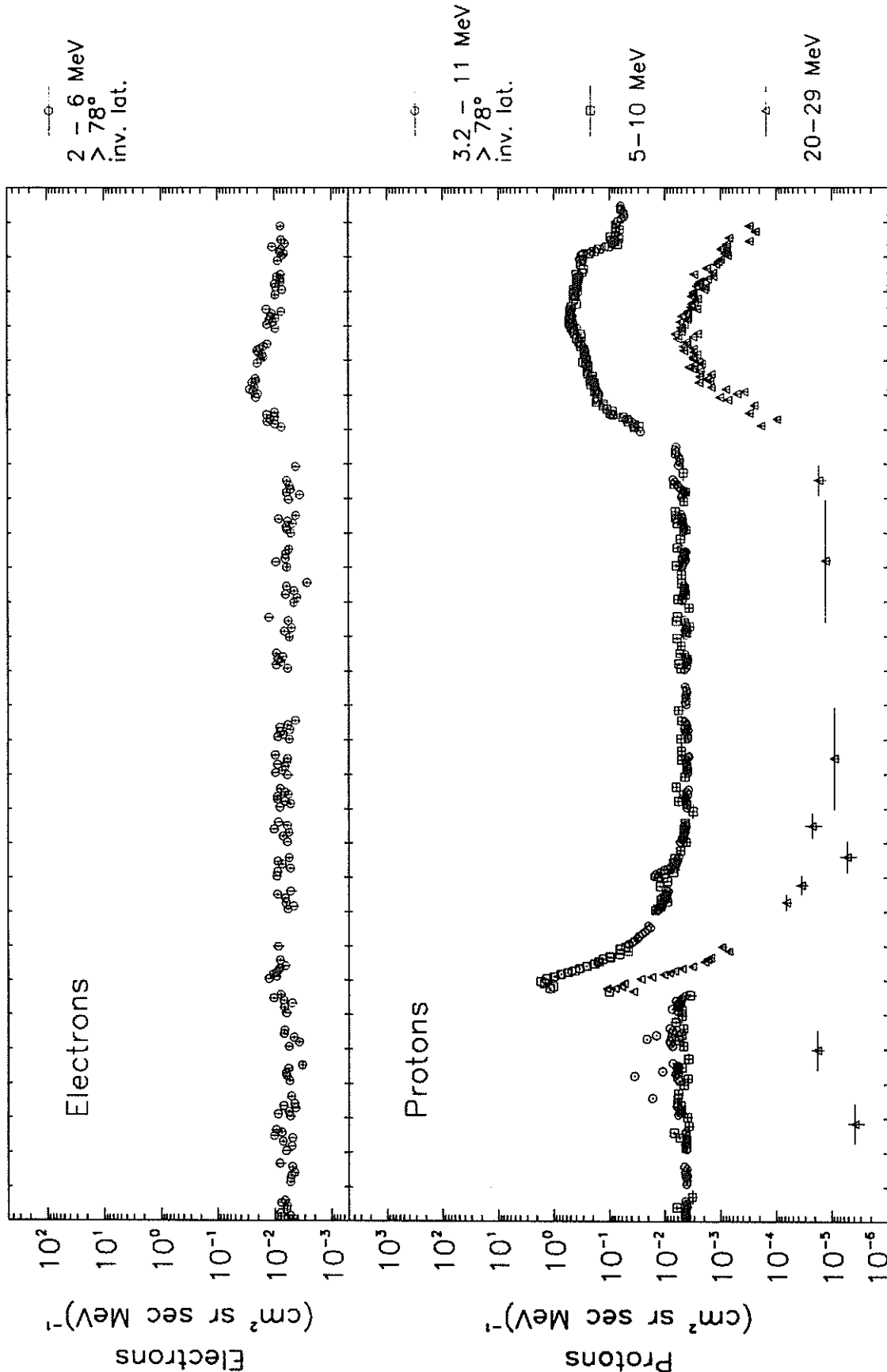
1993 121 126 131 136 141 146 151
day: May 1 May 6 May 11 May 16 May 21 May 26 May 31

Selected Particle Fluxes from SAMPEX
 Polar averages ($> 70^\circ$ invariant latitude except where noted)



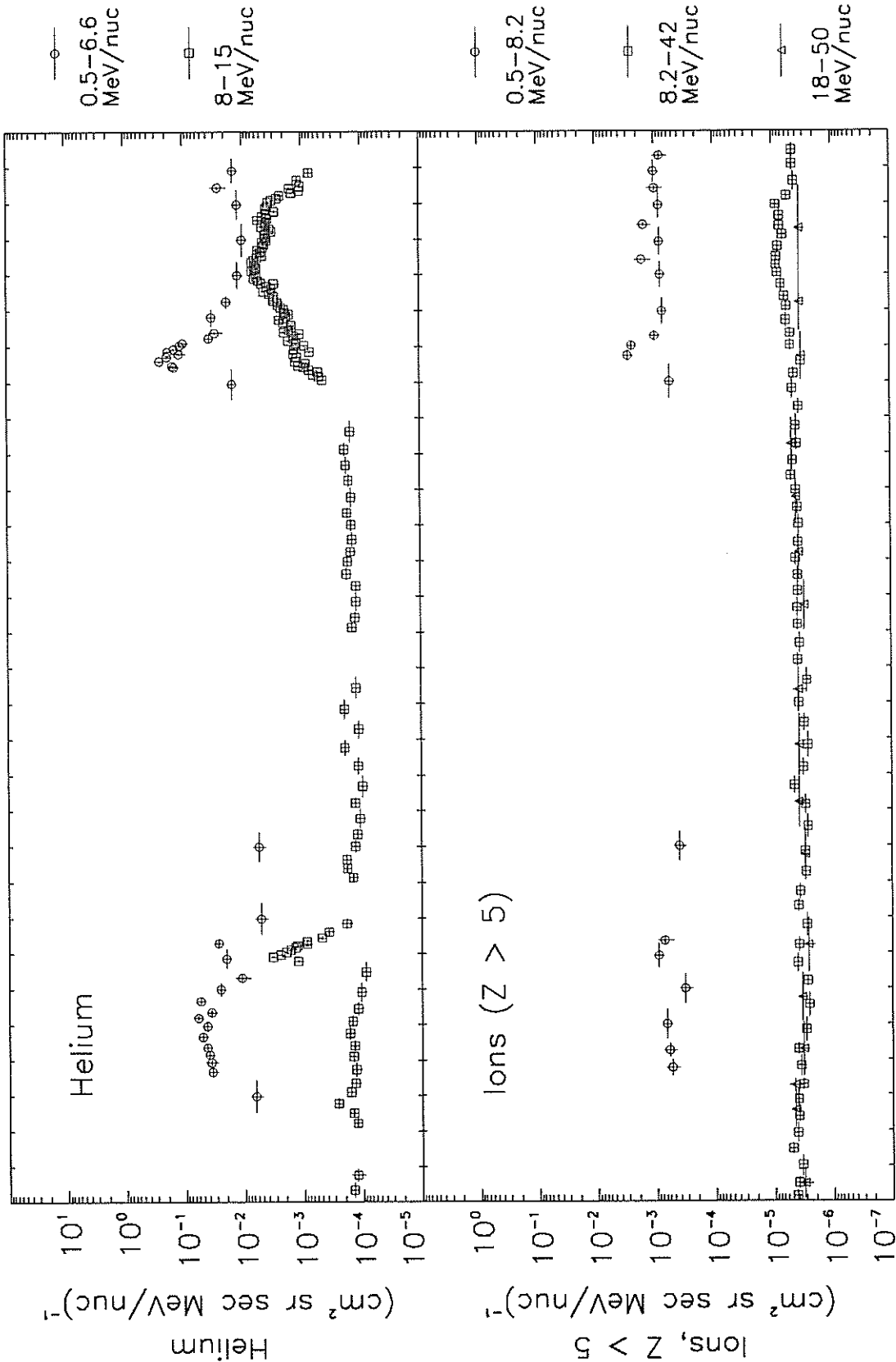
1993 day: 121 May 1 126 May 6 131 May 11 136 May 16 141 May 21 146 May 26 151 May 31

Selected Particle Fluxes from SAMPEX
Polar averages (> 70° invariant latitude except where noted)



1993 day: 152 Jun 1 157 Jun 6 162 Jun 11 167 Jun 16 172 Jun 21 177 Jun 26

Selected Particle Fluxes from SAMPEX
 Polar averages ($> 70^\circ$ invariant latitude except where noted)



1993 day: Jun 1 152 Jun 6 157 Jun 11 162 Jun 16 167 Jun 21 172 Jun 26 177



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."