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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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FEBRUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0011	HOLL	11	1616	1616	1619	S27 E61	8156	02	16.4	3	SF		3	E		11		
			11 1741		1746	No Flare Patrol												
			11 1847		1908	No Flare Patrol												
			11 1923		2009	No Flare Patrol												
			11 2022		2040	No Flare Patrol												
			11 2053		2114	No Flare Patrol												
0012	LEAR	11	2341	2344	2346	S29 E51	8156	02	16.0	5	SF		3	E		15		
0013	LEAR	12	0407	0412	0416	S29 E49	8156	02	16.0	9	SF		3	E		14		
0014	LEAR	12	0416	0418	0421	S29 E49	8156	02	16.0	5	SF		3	E		19		
0015	URUM	12	0432	0435	0442	S25 E52	8156	02	16.2	10	SB			C		64	1.1	D
0016	URUM	12	0841	0917	0933	S25 E53	8156	02	16.5	52	SB			C		48	0.8	D
			12 1037		1050	No Flare Patrol												
			12 1247		1318	No Flare Patrol												
0017	HOLL	12	1449	1453	1459	S27 E46	8156	02	16.2	10	SF		3	E		14		
0018	RAMY	12	1828	1829	1834	S25 E47	8156	02	16.4	6	SF		4	E		22		
0019		12	1924	1925	1928	S26 E45	8156	02	16.3	4	SF					26		
	HOLL	12	1924	1925	1928	S26 E45	8156	02	16.3	4	SF		3	E		26		
	RAMY	12	1924	1925	1928	S25 E45	8156	02	16.3	4	SF		4	E		25		
0020	LEAR	13	0536	0536	0542	S22 E40	8156	02	16.3	6	SF		3	E		14		F
			13 0711		0717	No Flare Patrol												
			13 2028		2032	No Flare Patrol												
			13 2055		2400	No Flare Patrol												
			14 0000		0021	No Flare Patrol												
			14 0201		0211	No Flare Patrol												
			14 0620		0802	No Flare Patrol												
0021	LEAR	14	0931	0938	0944	S24 E23	8156	02	16.2	13	SF		3	E		61		
0022	KANZ	14	0935	0939	0951	S27 E24	8156	02	16.3	16	SF		2	C				
0023	LEAR	14	0945	0951	1001	S24 E25	8156	02	16.3	16	SF		3	E		81		F
0024	KANZ	14	0947	1003	1011	S31 E23	8156	02	16.2	24	SF		2	C				
0025	LEAR	14	1019	1026	1029D	S22 E26	8156	02	16.4	10D	SF		3	E		24		
0026	KANZ	14	1243	1243	1251	S25 E20	8156	02	16.1	8	SF		2	C				
			14 1413		1418	No Flare Patrol												
			14 1552		1656	No Flare Patrol												
			14 1840		1902	No Flare Patrol												
			14 1927		1940	No Flare Patrol												
			14 2134		2240	No Flare Patrol												
0027	LEAR	15	0418	0423	0440	S24 E14	8156	02	16.3	22	SF		3	E		60		
0028	LEAR	15	0538	0539	0601	S23 E12	8156	02	16.1	23	SF		3	E		21		F
0029		15	07092	07131	0726	S26 E12	8156	02	16.2	17	1F					64		
	SVTO	15	0709	0714	0729	S27 E11	8156	02	16.1	20	1F		3	E		101		
	LEAR	15	0711	0713	0724	S24 E14	8156	02	16.4	13	SF		3	E		26		
0030		15	07341	0736	0750	S24 E11	8156	02	16.2	16	SF					19		
	SVTO	15	0734	0736	0754	S26 E09	8156	02	16.0	20	SF		3	E		26		
	LEAR	15	0735	0736	0745	S23 E13	8156	02	16.3	10	SF		3	E		12		
0031	SVTO	15	0827	0830	0844	S27 E10	8156	02	16.1	17	SF		3	E		14		

H α SOLAR FLARES

FEBRUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0032	SVTO	15	0944	0944	0952	S27 E10	8156	02 16.2	8	SF		3	E		10		
0033		15	1030	1033	1101	S26 E10	8156	02 16.2	31	SF					31		
	SVTO	15	1030	1033	1059	S27 E09	8156	02 16.1	29	SF		3	E		31		
	KANZ	15	1035E	1035U	1103	S25 E12	8156	02 16.4	28D	SF		2	C				
0034		15	1137E	1145E	1208	S26 E08	8156	02 16.1	31	SF					53		
	SVTO	15	1137	1145	1209	S26 E08	8156	02 16.1	32	SF		3	E		53		
	KANZ	15	1139	1147	1207	S25 E08	8156	02 16.1	28	SF		2	C				
0035	KANZ	15	1139	1139	1211	S25 E13	8156	02 16.5	32	SF		2	C				
0036	KANZ	15	1431	1443	1455	S28 E06	8156	02 16.1	24	SF		2	C				
		15	1607		1944	No Flare Patrol											
		15	2012		2051	No Flare Patrol											
		15	2100		2119	No Flare Patrol											
		15	2130		2400	No Flare Patrol											
		16	0000		0022	No Flare Patrol											
		16	0412		0729	No Flare Patrol											
		16	1942		1955	No Flare Patrol											
		16	2123		2322	No Flare Patrol											
		17	0254		0353	No Flare Patrol											
0037		17	0923	0953	1016	S26 W16	8156	02 16.1	53	SF					73		
	LEAR	17	0923	0953	1016	S27 W16	8156	02 16.1	53	SF		3	E		73		
	KANZ	17	0954E	0954U	1003D	S25 W15	8156	02 16.2	9D	SF		2	C				
0038		17	1053E	1109	1149	S26 W16	8156	02 16.2	56D	SF					18		
	SVTO	17	1053E	1109	1153	S26 W16	8156	02 16.2	60D	SF		2	E		26		
	RAMY	17	1105E	1106U	1145	S26 W15	8156	02 16.3	40D	SF		2	E		10		
0039	KANZ	17	1103	1107	1129D	S26 W14	8156	02 16.4	26D	SF		2	C				
		17	1832		1836	No Flare Patrol											
		17	1932		2023	No Flare Patrol											
		17	2145		2238	No Flare Patrol											
0040	LEAR	18	0634	0638	0649	S24 W06	8158	02 17.8	15	SF		3	E		42		
0041		18	0921E	0924E	0945	S23 W23	8156	02 16.6	24	SF					54		F
	LEAR	18	0921	0924	0945	S23 W24	8156	02 16.5	24	SF		3	E		54		F
	SVTO	18	0921	0924	0947	S22 W23	8156	02 16.6	26	SF		3	E		54		
	KANZ	18	0923	0927	0943	S24 W22	8156	02 16.7	20	SF		2	C				
0042	SVTO	18	1123	1124	1130	S22 W25	8156	02 16.5	7	SF		3	E		13		
0043	KHAR	18	1139U	1142U	1210D	S24 W27	8156	02 16.4	31U	1N		2	P	1144	280	3.3	E
0044		18	1135E	1138*E	1243	S25 W30	8156	02 16.1	68	1F					163		FH
	SVTO	18	1135	1138	1244	S24 W30	8156	02 16.2	69	1F		3	E		146		F
	KANZ	18	1135	1139	1243	S24 W28	8156	02 16.3	68	1F		2	C				
	RAMY	18	1140	1149	1242	S27 W31	8156	02 16.1	62	1F		3	E		180		FH
0045		18	1508E	1508E	1519	S23 W26	8156	02 16.6	11	SF					34		F
	RAMY	18	1508	1508	1519	S23 W26	8156	02 16.6	11	SF		4	E		34		F
	KANZ	18	1511	1511	1519D	S23 W25	8156	02 16.7	8D	SF		2	C				
0046	SVTO	18	1508	1523	1543	S22 W27	8156	02 16.5	35	SF		3	E		42		
0047	RAMY	18	1526	1527	1534	S23 W26	8156	02 16.6	8	SF		4	E		29		
0048	RAMY	18	1642	1652	1707	S23 W27	8156	02 16.6	25	SF		3	E		35		FH
		18	1758		1815	No Flare Patrol											
		18	1823		1900	No Flare Patrol											
		18	1907		2115	No Flare Patrol											
		18	2211		2245	No Flare Patrol											

H α SOLAR FLARES

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Feb 98

FEBRUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0049		19	05194	0527*	0552	S24	W39	8156	02	16.2	33	SF			64	0.4	D		
	URUM	19	0519	0540	0553	S22	W38	8156	02	16.3	34	SF		C	32	0.4	D		
	LEAR	19	0523	0527	0552	S27	W40	8156	02	16.1	29	SF	3	E	97				
0050	LEAR	19	0630	0630	0632	S27	W40	8156	02	16.1	2	SF	3	E	18				
0051		19	0716	0717	0721	S26	W38	8156	02	16.3	5	SF			18				
	KANZ	19	0716E	0716U	0719	S24	W35	8156	02	16.6	3D	SF	2	C					
	SVTO	19	0716	0717	0723	S27	W41	8156	02	16.1	7	SF	3	E	18				
0052		19	12381	1239	1246	S27	W44	8156	02	16.1	8	SF			19				
	SVTO	19	1238	1239	1248	S27	W44	8156	02	16.1	10	SF	3	E	22				
	RAMY	19	1239	1239	1243	S27	W44	8156	02	16.1	4	SF	4	E	16				
0053		19	14531	14543	1514	S23	W41	8156	02	16.5	21	SF			39			F	
	SVTO	19	1453	1457	1518	S21	W40	8156	02	16.5	25	SF	3	E	48			F	
	RAMY	19	1454	1454	1512	S27	W45	8156	02	16.1	18	SF	4	E	37			F	
	HOLL	19	1454	1457	1511	S21	W39	8156	02	16.6	17	SF	3	E	33				
0054		19	1656	16574	1714	S22	W43	8156	02	16.4	18	SF			68			FH	
	HOLL	19	1656	1657	1713	S21	W43	8156	02	16.4	17	SF	4	E	65			FH	
	RAMY	19	1656	1701	1714	S23	W43	8156	02	16.4	18	SF	2	E	70			F	
0055	HOLL	19	2320	2321	2323	S21	W44	8156	02	16.6	3	SF	3	E	19				
0056	LEAR	20	0123	0124	0130	S27	W51	8156	02	16.1	7	SF	3	E	43				
0057	LEAR	20	0303	0323	0329	S25	W48	8156	02	16.4	26	SF	3	E	15				
0058	URUM	20	1000	1016	1017D	S23	W52	8156	02	16.4	17D	SB		P	64	1.1		D	
0059		20	10043	10071	1038	S26	W54	8156	02	16.2	34	SF			59			F	
	KANZ	20	1004	1008	1036	S24	W53	8156	02	16.3	32	SF	2	C					
	SVTO	20	1007	1007	1041	S27	W55	8156	02	16.1	34	SF	3	E	59			F	
0060	RAMY	20	1205	1211	1219	S25	W55	8156	02	16.2	14	SF	3	E	12				
0061		20	1234*	12463	1300	S23	W50	8156	02	16.7	26	SF			25			F	
	RAMY	20	1234	1246	1303	S22	W51	8156	02	16.6	29	SF	3	E	25			F	
	KANZ	20	1245	1249	1257	S24	W50	8156	02	16.7	12	SF	2	C					
0062	RAMY	20	1315	1318	1323	S21	W55	8156	02	16.3	8	SF	3	E	12			F	
		20	1522		1538	No Flare Patrol													
		20	1626		1949	No Flare Patrol													
0063	RAMY	20	1736	1739	1758	S22	W57	8156	02	16.3	22	SF	3	E	30			F	
		20	2110		2117	No Flare Patrol													
		20	2139		2141	No Flare Patrol													
		20	2155		2248	No Flare Patrol													
		21	2126		2138	No Flare Patrol													
0064		22	16032	16052	1616	S34	E36	8162	02	25.5	13	SF			16				
	HOLL	22	1603	1605	1615	S34	E36	8162	02	25.5	12	SF	3	E	16				
	RAMY	22	1605	1607	1618	S33	E37	8162	02	25.6	13	SF	4	E	15				
		23	1027		1108	No Flare Patrol													
0065	RAMY	23	1333	1333	1338	S18	W79	8158	02	17.5	5	SF	4	E	12				
0066		23	15451	15471	1550	S18	W81	8158	02	17.5	5	SF			14				
	RAMY	23	1545	1547	1552	S19	W80	8158	02	17.5	7	SF	4	E	15				
	HOLL	23	1546	1548	1549	S16	W82	8158	02	17.4	3	SF	3	E	12				
		24	0201		0223	No Flare Patrol													
0067		24	09273	0934	0942	N15	E08	8164	02	25.0	15	SF			43			F	
	SVTO	24	0927	0931U	0953D	N15	E08	8164	02	25.0	26D	SF	3	E	43			F	
	KANZ	24	0930	0934	0942	N15	E07	8164	02	24.9	12	SF	2	C					

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks	
													Type	Time (UT)	Apparent (10 ⁻⁶ Disk)		Corr (Sq Deg)
0068	24	10091	1010	1014	N15 E10	8164	02 25.2	5	SF						29		F
	SVTO	24	1009	1010U	1023D	N15 E09	8164	02 25.1	14D	SF		3	E		29		F
	KANZ	24	1010	1010	1014	N15 E10	8164	02 25.2	4	SF		2	C				
0069	KANZ	24	1042	1042	1050	N15 E10	8164	02 25.2	8	SF		2	C				
0070	SVTO	24	1043E	1045U	1123D	N15 E10	8164	02 25.2	40D	SF		3	E		28		F
0071	24	11422	11501	1201	N16 E09	8164	02 25.2	19	SF						30		FH
	KANZ	24	1142	1150	1202	N17 E08	8164	02 25.1	20	SF		2	C				
	RAMY	24	1144	1151	1200	N16 E10	8164	02 25.2	16	SF		3	E		30		HF
0072	RAMY	24	1238	1239	1246	N17 E08	8164	02 25.1	8	SF		4	E		24		H
0073	24	1338	13393	1346	N15 E06	8164	02 25.0	8	SF						22		F
	RAMY	24	1338	1339	1346	N15 E07	8164	02 25.1	8	SF		4	E		22		F
	KANZ	24	1338	1342	1346	N15 E05	8164	02 24.9	8	SF		2	C				
	24	2240		2337	No Flare Patrol												
	25	0101		0157	No Flare Patrol												
	25	0212		0349	No Flare Patrol												
	25	0508		0648	No Flare Patrol												
	25	0721		0747	No Flare Patrol												
	25	0929		0944	No Flare Patrol												
	25	0955		1007	No Flare Patrol												
	25	1009		1104	No Flare Patrol												
	25	2002		2037	No Flare Patrol												
	25	2046		2050	No Flare Patrol												
	25	2213		2244	No Flare Patrol												
	26	0101		0210	No Flare Patrol												
	26	0318		0444	No Flare Patrol												
	26	0545		0622	No Flare Patrol												
0074	26	1534*	1546*	1613	S26 W05	8167	02 26.3	39	SF						22		F
	KANZ	26	1534	1546	1610	S26 W05	8167	02 26.3	36	SF		2	C				
	RAMY	26	1547	1557	1613D	S26 W05	8167	02 26.3	26D	SF		3	E		13		F
	HOLL	26	1554E	1600	1616	S26 W05	8167	02 26.3	22D	SF		3	E		30		F
	26	2004		2018	No Flare Patrol												
	26	2147		2225	No Flare Patrol												
	26	2251		2303	No Flare Patrol												
	27	1640		1850	No Flare Patrol												
	27	2121		2129	No Flare Patrol												
0075	28	09261	09261	0932	S24 W02	8171	02 28.2	6	SF						12		
	SVTO	28	0926	0926	0933	S24 W02	8171	02 28.2	7	SF		3	E		12		
	KANZ	28	0927	0927	0931	S24 W01	8171	02 28.3	4	SF		2	C				
0076	HOLL	28	2339	2341U	2354	N16 W54	8164	02 24.9	15	SF		3	E		14		

"Remarks"

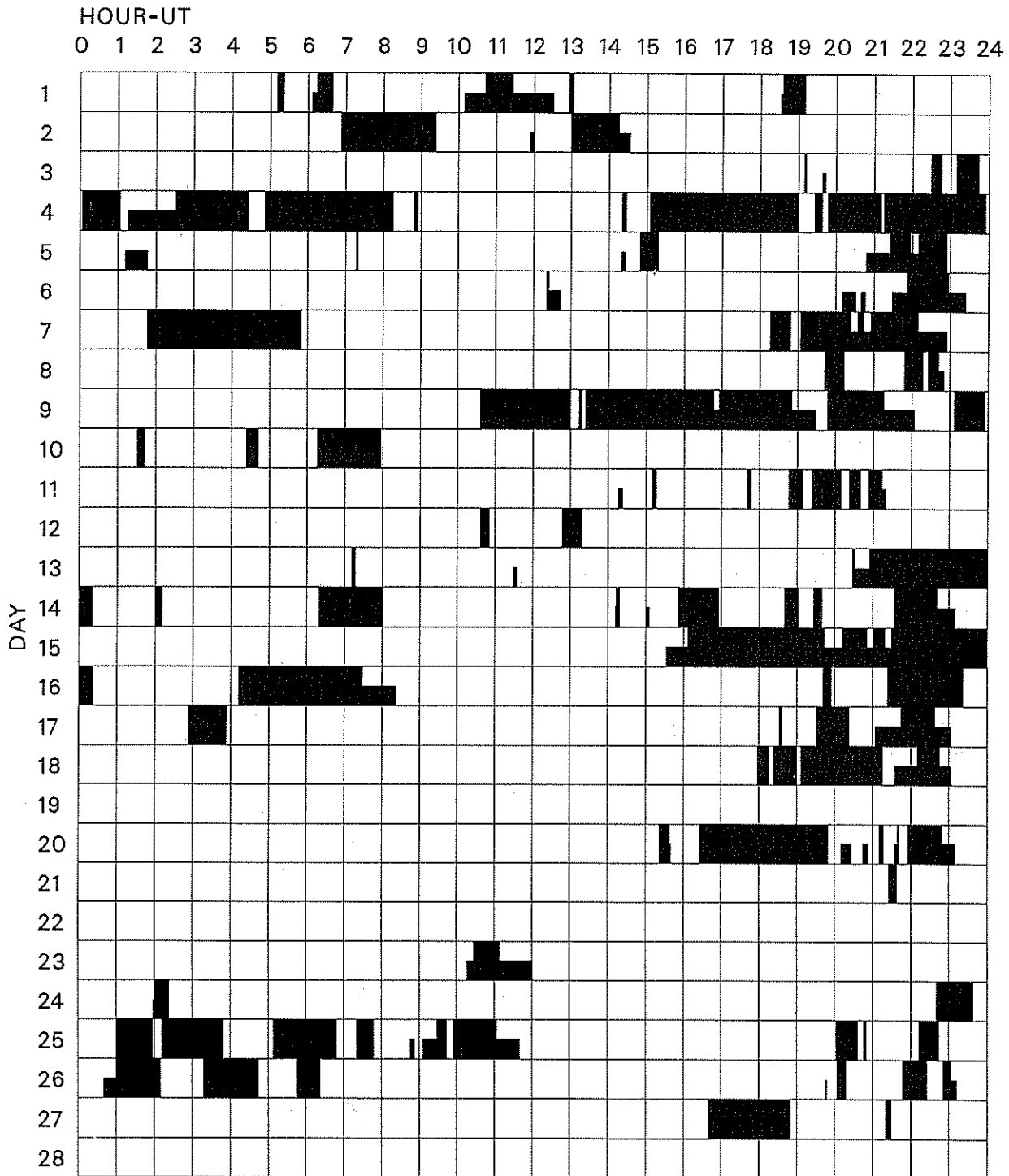
- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

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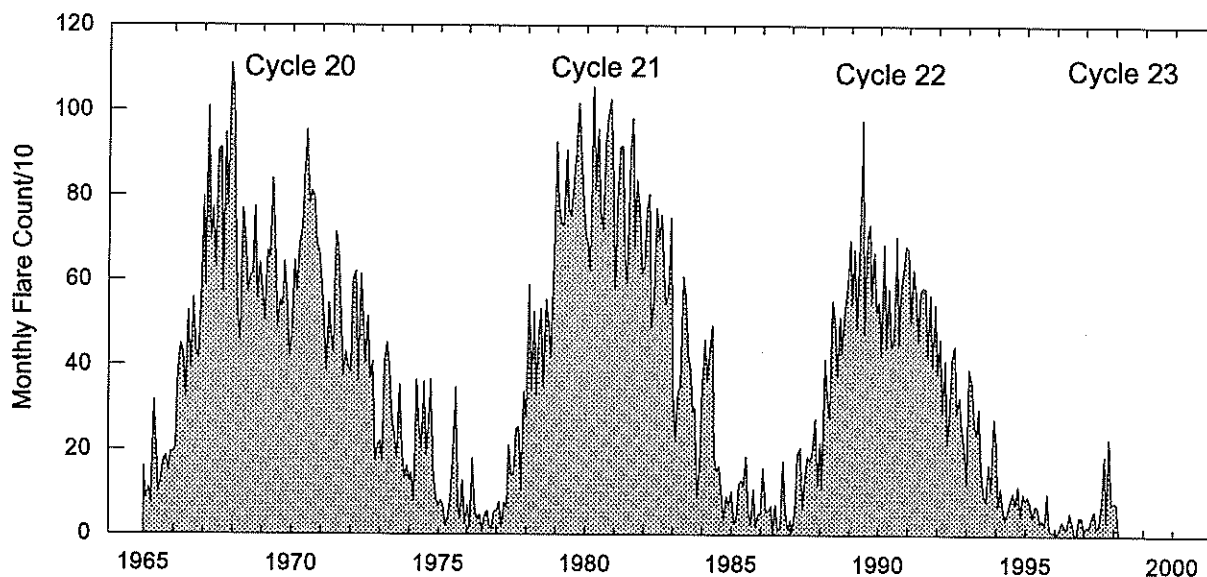
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Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual patrol.

Holloman	Kanzelhoehe	Learmonth	Ramey	Urumqi
Hurbanovo	Kharkov	Mitaka	San Vito	Voroshilov

Monthly Counts of Grouped Solar Flares Jan 1965 - Feb 1998



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76											154

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

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Outstanding Occurrences

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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	235	CUBA	44 NS	1600.0E		350.0D		7.0			
	280	CUBA	44 NS	1625.0E		325.0D		13.0			
	600	GORK	4 S/F	0747.0	0747.5	0.8	4.4				
02	610	SVTO	8 S	1119.0	1119.0	U	260.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	1744.0	1744.0	U	150.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1744.0	1744.0	U	120.0			QL=4 ST=2 TYP=3	
03	610	SVTO	8 S	1212.0	1212.0	1.0	39.0			QL=4 ST=3 TYP=3	
	410	SVTO	8 S	1212.0	1212.0	U	190.0			QL=4 ST=3 TYP=3	
04	9100	GORK	3 S	0906.1	0906.6	1.0	11.9				
07	280	CUBA	44 NS	1400.0E		480.0D		14.0			
	235	CUBA	44 NS	1400.0E		480.0D		6.0			
08	3000	IZMI	5 S	0719.1	0719.2	0.1	27.0	13.0			
09	235	CUBA	44 NS	1300.0E		530.0D		6.0			
	280	CUBA	44 NS	1300.0E		530.0D		13.0			
12	235	CUBA	44 NS	1300.0E		530.0D		8.0			
	280	CUBA	44 NS	1300.0E		530.0D		15.0			
13	235	CUBA	44 NS	1300.0E		530.0D		8.0			
	280	CUBA	44 NS	1300.0E		530.0D		15.0			
	5730	IRKU	20 GRF	0531.5	0537.0	20.3	2.0		U		
14	204	IZMI	43 NS	0700.0	1200.0D	300.0D		20.0			
	245	SVTO	43 NS	1043.0	1058.0	317.0	370.0			QL=2 ST=3 TYP=1	
	245	SGMR	43 NS	1203.0	1347.0U	203.0	170.0			QL=4 ST=2 TYP=1	
	280	CUBA	44 NS	1400.0E		440.0D		20.0			
	245	PALE	43 NS	2345.0	0039.0	215.0	210.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	2346.0	0018.0	194.0	140.0			QL=4 ST=2 TYP=1	
	245	SVTO	4 S/F	0608.0	0611.0	4.0	69.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0609.0	0611.0	2.0	69.0			QL=4 ST=2 TYP=3	
	33	UPIC	45 C	1012.0	1012.3	0.9					
	33	UPIC	45 C	1014.5	1014.9	1.0					
15	33	UPIC	45 C	1239.0	1239.8	1.0					
	245	LEAR	43 NS	0643.0	0650.0	80.0	62.0			QL=4 ST=2 TYP=1	
	127	TORN	44 NS	0700.0E		470.0D		3.0		V=1	
	204	IZMI	44 NS	0700.0E	1200.0D	300.0D		30.0			
	245	SVTO	43 NS	1316.0	1317.0	24.0	61.0			QL=2 ST=2 TYP=1	
	245	SGMR	43 NS	1452.0	1506.0	26.0	85.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	1452.0	1503.0	69.0	66.0			QL=2 ST=3 TYP=1	
	245	SGMR	43 NS	1641.0	1641.0	54.0	130.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	1814.0	1828.0	38.0	250.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1814.0	1828.0	36.0	210.0			QL=4 ST=2 TYP=1	
	280	CUBA	44 NS	1900.0E		170.0D		13.0			
	235	CUBA	44 NS	1900.0E		170.0D		13.0			
	245	SGMR	43 NS	2015.0	2021.0	25.0	76.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	2020.0	2021.0	20.0	72.0			QL=4 ST=2 TYP=1	
	500	HIRA	27 RF	0000.0	0022.0	70.0	9.0		3.0		WR
	2804	VORO	2 S/F	0101.6	0102.5	2.5	70.0				
	2695	LEAR	8 S	0102.0	0102.0	1.0	120.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	0102.0	0102.0	1.0	130.0				QL=4 ST=2 TYP=3
	2840	PEKG	46 C	0102.0	0102.4	3.0	179.0				
	2800	HIRA	46 C	0102.5	0102.6	1.0	160.0		40.0		ML
500	HIRA	42 SER	0102.7	0103.0	0.6	27.0				O	
5730	IRKU	3 S	0254.0	0255.6	22.3	10.0			U		
2840	PEKG	40 F	0300.0	0304.5	13.0	17.7					
2804	VORO	41 F	0420.5	0421.1	0.9	40.0					
2695	LEAR	4 S/F	0422.0	0424.0	3.0	190.0				QL=4 ST=2 TYP=3	
2840	PEKG	46 C	0422.0	0424.0	4.0	203.0					
5730	IRKU	45 C	0422.0	0424.8	23.0	8.0			U		
500	HIRA	42 SER	0422.5	0424.7	2.4	23.0				O	
2800	HIRA	42 SER	0422.7	0424.9	2.4	140.0				SL	
5730	IRKU	21 GRF	0533.5	0538.3	22.5	6.0			U		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
15	245	LEAR	4 S/F	0617.0	0618.0	4.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0618.0	0618.0	U	58.0			QL=4 ST=3 TYP=3
	2840	PEKG	23 GRF	0706.0	0713.0	51.0	26.7			
	5730	IRKU	45 C	0707.5	0713.3	22.0	31.0	U		
	8800	LEAR	4 S/F	0711.0	0713.0	4.0	15.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0711.0	0713.0	4.0	23.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0711.0	0713.0	4.0	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0711.0	0713.0	6.0	15.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0711.0	0713.0	8.0	48.0			QL=4 ST=3 TYP=3
	2695	SVTO	4 S/F	0711.0	0713.0	5.0	23.0			QL=4 ST=3 TYP=3
	2800	HIRA	3 S	0712.0	0713.5	3.2	22.0	6.0		0
	410	SVTO	8 S	0715.0	0715.0	U	24.0			QL=2 ST=3 TYP=3
	245	SVTO	8 S	0715.0	0715.0	U	47.0			QL=2 ST=3 TYP=3
	5730	IRKU	21 GRF	0732.5	0734.8	17.5	4.0	U		
245	SGMR	8 S	1316.0	1317.0	1.0	54.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2215.0	2215.0	U	82.0			QL=4 ST=2 TYP=3	
16	127	TORN	43 NS	1308.0		52.0D				V=2
	245	SGMR	43 NS	1339.0	1342.0	84.0	99.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1339.0	1340.0	84.0	140.0			QL=2 ST=2 TYP=1
	245	LEAR	4 S/F	0131.0	0135.0	6.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0136.0	0144.0	10.0	65.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0210.0	0210.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0210.0	0210.0	1.0	200.0			QL=4 ST=2 TYP=3
	5730	IRKU	21 GRF	0302.0	0338.7	88.0	13.0	U		
	2804	VORO	21 GRF	0302.5	0320.0	62.0	10.0			
	2804	VORO	46 C	0303.5	0305.1	5.8	11.0			
	2804	VORO	3 S	0313.1	0315.0	2.5	5.0			
	245	LEAR	8 S	0344.0	0344.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0344.0	0344.0	1.0	220.0			QL=4 ST=2 TYP=3
	204	IZMI	21 GRF	0922.9	1028.8	65.9	100.0			
	245	SVTO	4 S/F	1309.0	1312.0	3.0	85.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1311.0	1312.0	1.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1321.0	1323.0	3.0	48.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1323.0	1323.0	1.0	43.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	2308.0	2308.0	U	110.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2308.0	2308.0	U	130.0			QL=4 ST=2 TYP=3	
17	204	IZMI	43 NS	0903.0		177.0D		20.0		
	245	SVTO	43 NS	1340.0	1346.0	28.0	110.0			QL=2 ST=2 TYP=1
	245	SGMR	43 NS	1343.0	1346.0	5.0	67.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1410.0E		460.0D		17.0		
	235	CUBA	44 NS	1410.0E		460.0D		9.0		
	2804	VORO	21 GRF	0020.0	0043.3	140.0	5.0			
	5730	IRKU	20 GRF	0338.6	0340.1	36.4	5.0	U		
	2804	VORO	24 R	0348.8	0350.3		3.2			
	2840	PEKG	45 C	0415.0	0429.1	29.0	9.5			
	410	LEAR	8 S	0425.0	0425.0	1.0	49.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0425.0	0425.0	1.0	32.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0427.4	0428.7	9.0	16.0	U		
	2804	VORO	46 C	0427.5	0428.8	1.9	10.0			
	245	LEAR	8 S	0428.0	0428.0	1.0	370.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0428.0	0428.0	1.0	270.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0950.3	0950.5	0.5	7.4			
	245	SVTO	8 S	0951.0	0952.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1112.0	1114.0	2.0	76.0			QL=2 ST=2 TYP=3
	204	IZMI	41 F	1153.0	1153.6	0.7	332.0			
	33	UPIC	45 C	1158.0	1158.8	1.0				
	204	IZMI	41 F	1158.3	1158.6	0.4	60.0			
	33	UPIC	3 S	1234.2	1234.5	0.7				
245	SGMR	8 S	1331.0	1333.0	2.0	55.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1333.0	1333.0	U	51.0			QL=2 ST=2 TYP=3	
610	PALE	8 S	1935.0	1935.0	U	300.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	1935.0	1935.0	1.0	1000.0			QL=4 ST=2 TYP=6	
410	PALE	8 S	1935.0	1935.0	U	130.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1935.0	1935.0	U	270.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1935.0	1935.0	U	130.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1935.0	1935.0	1.0	960.0			QL=4 ST=2 TYP=6	
245	PALE	8 S	2155.0	2155.0	2.0	96.0			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

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FEBRUARY 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
17	610	PALE	8 S	2155.0	2155.0	2.0	43.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2155.0	2155.0	2.0	17.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2155.6	2155.7	0.2	45.0			O
	200	HIRA	8 S	2155.6	2155.9	0.6	7.0			ML
	245	PALE	8 S	2350.0	2351.0	1.0	150.0			QL=4 ST=3 TYP=3
	200	HIRA	8 S	2350.4	2350.7	0.6	13.0			O
18	245	LEAR	43 NS	0531.0	0853.0	313.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0559.0	1029.00	278.0	140.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		142.0D		20.0		
	204	IZMI	44 NS	0922.0E		157.0D		60.0		
	245	SGMR	43 NS	1157.0	1648.0U	442.0	270.0			QL=4 ST=3 TYP=1
	410	SGMR	43 NS	1220.0	1235.0	700.0	100.0			QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1221.0	1234.0	23.0	100.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1320.0E		510.0D		32.0		
	280	CUBA	44 NS	1320.0E		510.0D		42.0		
	245	SVTO	43 NS	1515.0	1519.0	50.0	120.0			QL=4 ST=2 TYP=1
	2840	PEKG	3 S	0219.0	0225.0	18.0	4.4			
	245	SVTO	8 S	0852.0	0853.0	2.0	140.0			QL=2 ST=2 TYP=3
	1415	SVTO	4 S/F	0922.0	0923.0	3.0	30.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0922.5	0923.2	2.2	500.0			
	610	LEAR	8 S	0923.0	0923.0	1.0	69.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0923.0	0923.0	1.0	31.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0923.0	0923.0	1.0	440.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0923.0	0924.0	1.0	20.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0923.0	0923.0	1.0	510.0			QL=2 ST=2 TYP=6
	610	SVTO	8 S	0923.0	0923.0	1.0	70.0			QL=2 ST=2 TYP=3
	33	UPIC	41 F	1208.5	1215.7	24.7				
	33	UPIC	47 GB	1233.2	1236.2	22.1				
	410	SGMR	4 S/F	1327.0	1328.0	3.0	85.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1542.0	1542.0	1.0	72.0			QL=4 ST=2 TYP=3
245	PALE	8 S	1835.0	1835.0	U	50.0			QL=4 ST=3 TYP=3	
245	PALE	8 S	1918.0	1918.0	U	54.0			QL=4 ST=2 TYP=3	
19	245	SVTO	43 NS	0601.0	0641.0	103.0	120.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		300.0D		25.0		
	245	SVTO	43 NS	0841.0	0849.0	189.0	210.0			QL=4 ST=3 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		11.0		
	280	CUBA	44 NS	1300.0E		530.0D		21.0		
	245	LEAR	8 S	0022.0	0022.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0135.0	0135.0	U	58.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0526.0	0527.2	2.0	2.0		U	
	5730	IRKU	20 GRF	0533.0	0534.0	6.5	2.0		U	
	5730	IRKU	3 S	0628.8	0629.0	9.2	6.0		U	
	500	HIRA	8 S	0630.5	0630.6	0.2	27.0			O
	245	LEAR	8 S	0841.0	0841.0	U	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0849.0	0849.0	U	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	1001.0	1002.0	1.0	22.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	1001.0	1002.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	1001.0	1002.0	1.0	60.0			QL=4 ST=2 TYP=3
	33	UPIC	2 S/F	1241.8	1242.0	0.8				
	33	UPIC	2 S/F	1246.8	1247.7	1.2				
	1415	SVTO	8 S	1453.0	1454.0	1.0	33.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1454.0	1454.0	U	19.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1454.0	1456.0	3.0	58.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1454.0	1455.0	8.0	35.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1455.0	1456.0	1.0	490.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1455.0	1456.0	1.0	460.0			QL=4 ST=2 TYP=3
20	245	SVTO	43 NS	0557.0	0557.0	78.0	120.0			QL=4 ST=3 TYP=1
	204	IZMI	44 NS	0700.0E		300.0D		5.0		
	245	SVTO	43 NS	1105.0	1247.0	208.0	250.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	600	GORK	21 GRF	1000.9	1009.7	14.1	1.2			
	600	GORK	4 S/F	1005.6	1007.8	3.4	6.7			
	9100	GORK	5 S	1006.0	1007.0	2.1	13.2			
	1415	LEAR	8 S	1006.0	1007.0	1.0	12.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	1006.0	1007.0	2.0	52.0			QL=4 ST=2 TYP=3

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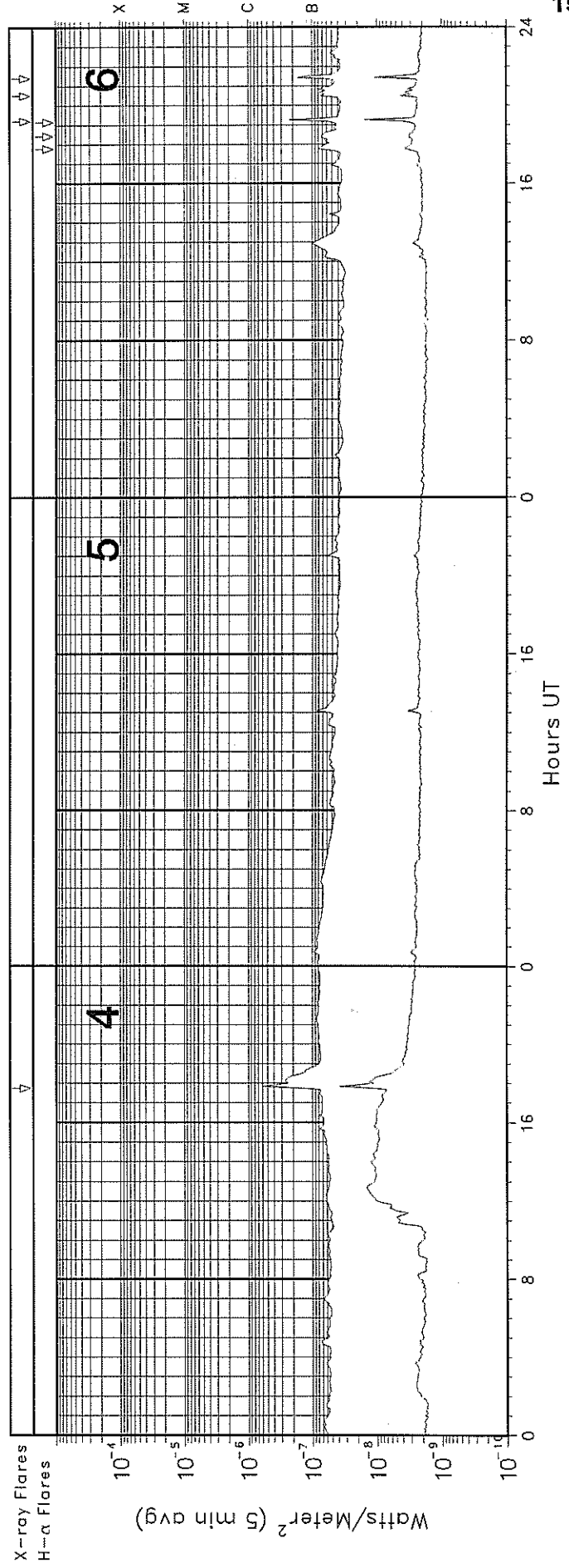
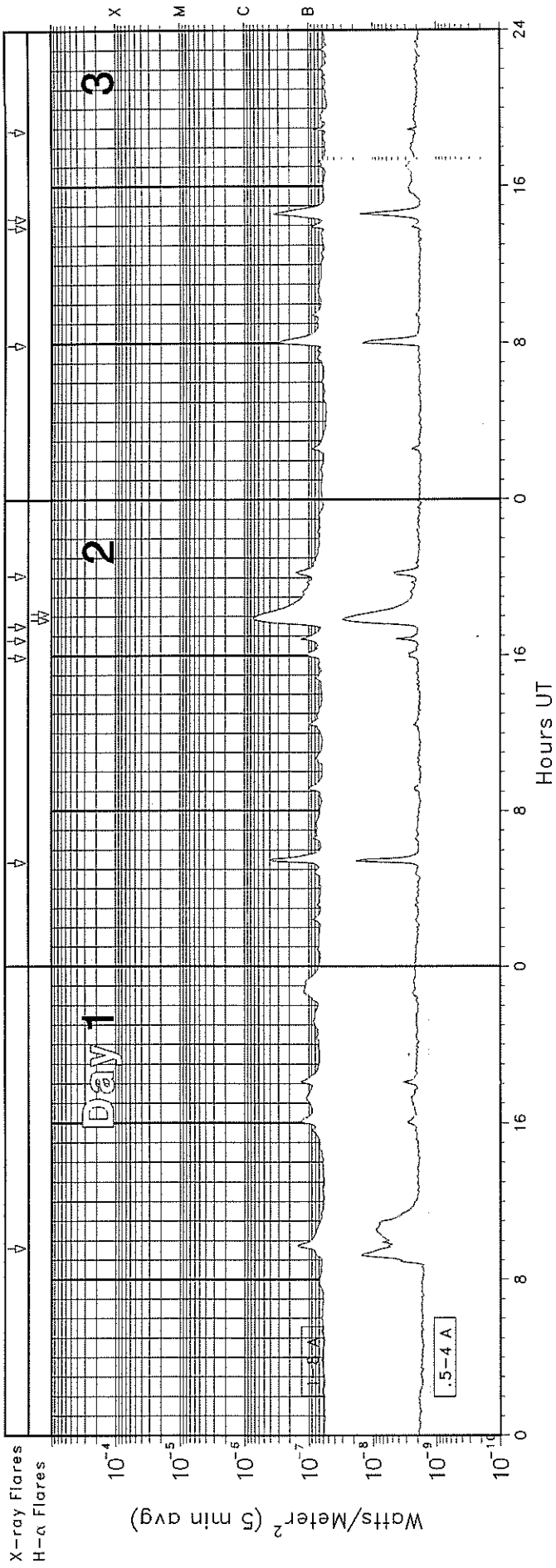
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

FEBRUARY 1998

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
20	4995 LEAR	8 S	1006.0	1007.0	2.0	25.0			QL=4 ST=2 TYP=3
	3000 IZMI	7 C	1006.0	1007.2	4.2	36.0	18.0		
	2695 SVTO	8 S	1007.0	1007.0	U	57.0			QL=4 ST=2 TYP=3
	4995 SVTO	8 S	1007.0	1007.0	U	29.0			QL=4 ST=2 TYP=3
	204 IZMI	41 F	1115.2	1115.6	0.7	90.0			
	245 PALE	8 S	1806.0	1806.0	1.0	110.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1806.0	1806.0	1.0	100.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	1845.0	1845.0	U	51.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	2356.0	2357.0	2.0	55.0			QL=4 ST=3 TYP=3
245 PALE	8 S	2357.0	2357.0	U	91.0			QL=4 ST=2 TYP=3	
21	204 IZMI	43 NS	0730.0		257.0		10.0		
	280 CUBA	44 NS	1330.0E		500.0D		19.0		
	235 CUBA	44 NS	1330.0E		500.0D		11.0		
	245 SGMR	43 NS	1602.0	1628.0	26.0	71.0			QL=4 ST=2 TYP=1
	245 PALE	4 S/F	0143.0	0146.0	3.0	85.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0145.0	0146.0	2.0	78.0			QL=4 ST=2 TYP=3
	2804 VORO	2 S/F	0155.3	0155.6	1.3	2.5			
	2840 PEKG	45 C	0502.0	0502.4	2.0	4.7			
	5730 IRKU	21 GRF	0502.0	0502.5	12.6	4.0		U	
	204 IZMI	25 R	0750.0		130.0		55.0		
	245 SVTO	8 S	0757.0	0758.0	1.0	57.0			QL=2 ST=2 TYP=3
	245 LEAR	8 S	0942.0	0944.0	2.0	75.0			QL=4 ST=2 TYP=3
245 SVTO	8 S	0942.0	0944.0	2.0	70.0			QL=2 ST=2 TYP=3	
22	235 CUBA	44 NS	1320.0E		510.0D		7.0		
	280 CUBA	44 NS	1320.0E		510.0D		13.0		
	5730 IRKU	20 GRF	0750.0	0752.2	10.0	5.0		U	
	245 SVTO	8 S	0949.0	0949.0	U	52.0			QL=4 ST=2 TYP=3
	204 IZMI	41 F	0949.3	0949.6	1.5	77.0			
	410 PALE	8 S	1825.0	1825.0	U	110.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	1825.0	1825.0	U	110.0			QL=4 ST=3 TYP=3
23	204 IZMI	43 NS	0700.0		160.0		10.0		
	280 CUBA	44 NS	1444.0E		294.0D		18.0		
	235 CUBA	44 NS	1444.0E		294.0D		11.0		
	5730 IRKU	1 S	0308.0	0309.0	5.0	3.0		U	
	610 SVTO	4 S/F	0604.0	0606.0	1076.0	91.0			QL=2 ST=1 TYP=3
	245 SGMR	8 S	1548.0	1548.0	U	80.0			QL=4 ST=2 TYP=3
24	235 CUBA	44 NS	1320.0E		510.0D		7.0		
	280 CUBA	44 NS	1325.0E		510.0D		14.0		
	204 IZMI	7 C	0834.7	0834.9	0.5	60.0			
25	2804 VORO	3 S	0201.2	0202.5	1.8	3.2			
	2804 VORO	29 PBI	0203.0		37.0	1.9			
26	245 SVTO	4 S/F	1030.0	1032.0	810.0	270.0			QL=4 ST=1 TYP=3
28	280 CUBA	44 NS	1330.0E		480.0D		13.0		
	235 CUBA	44 NS	1330.0E		480.0D		7.0		

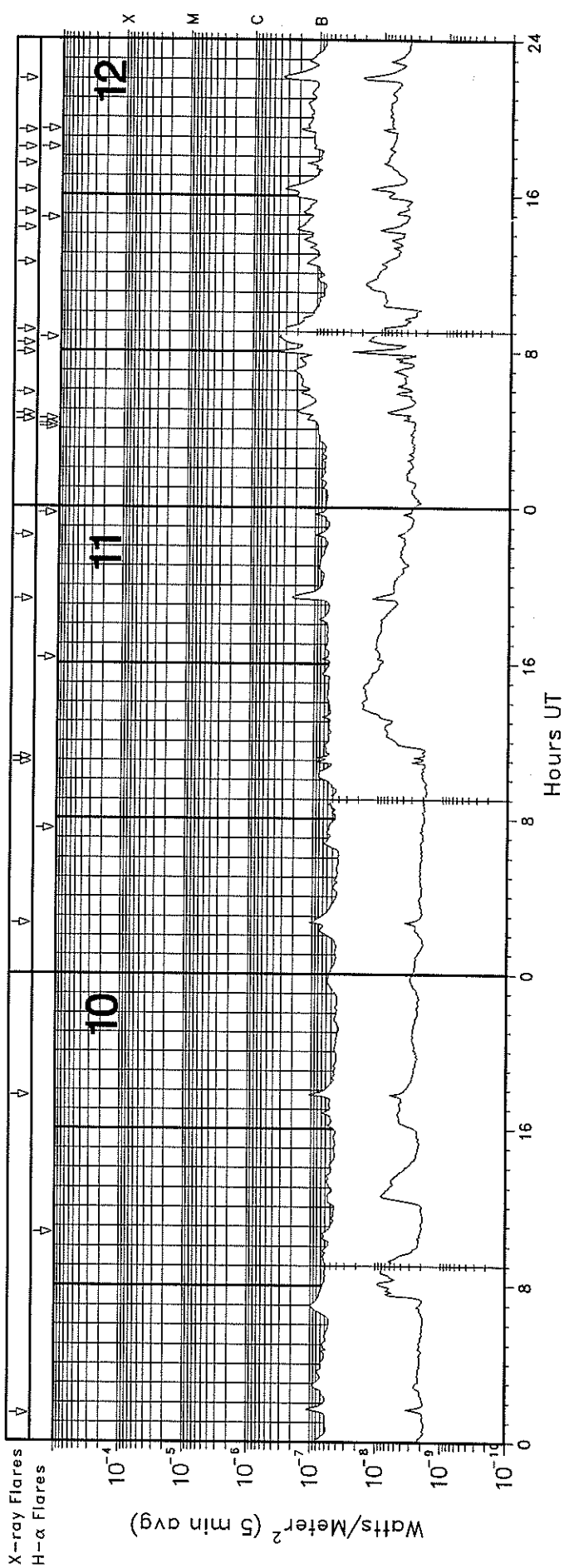
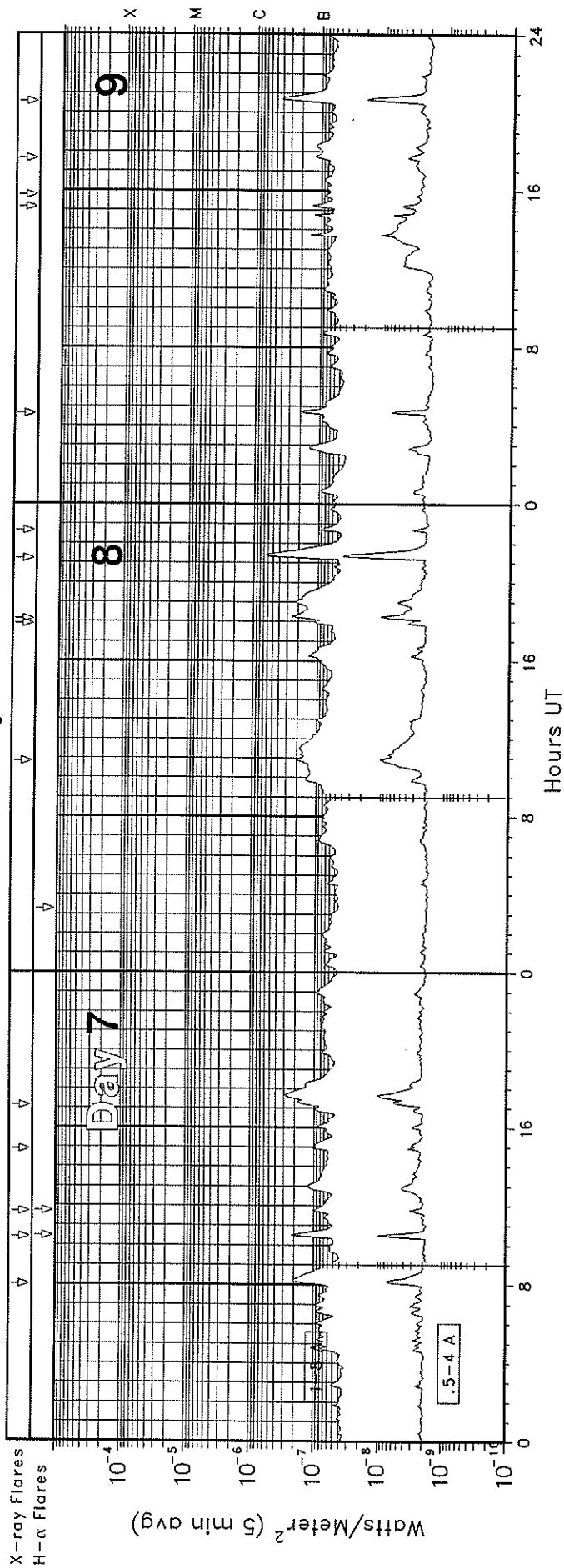
GOES X-RAY DETECTOR

February 1998



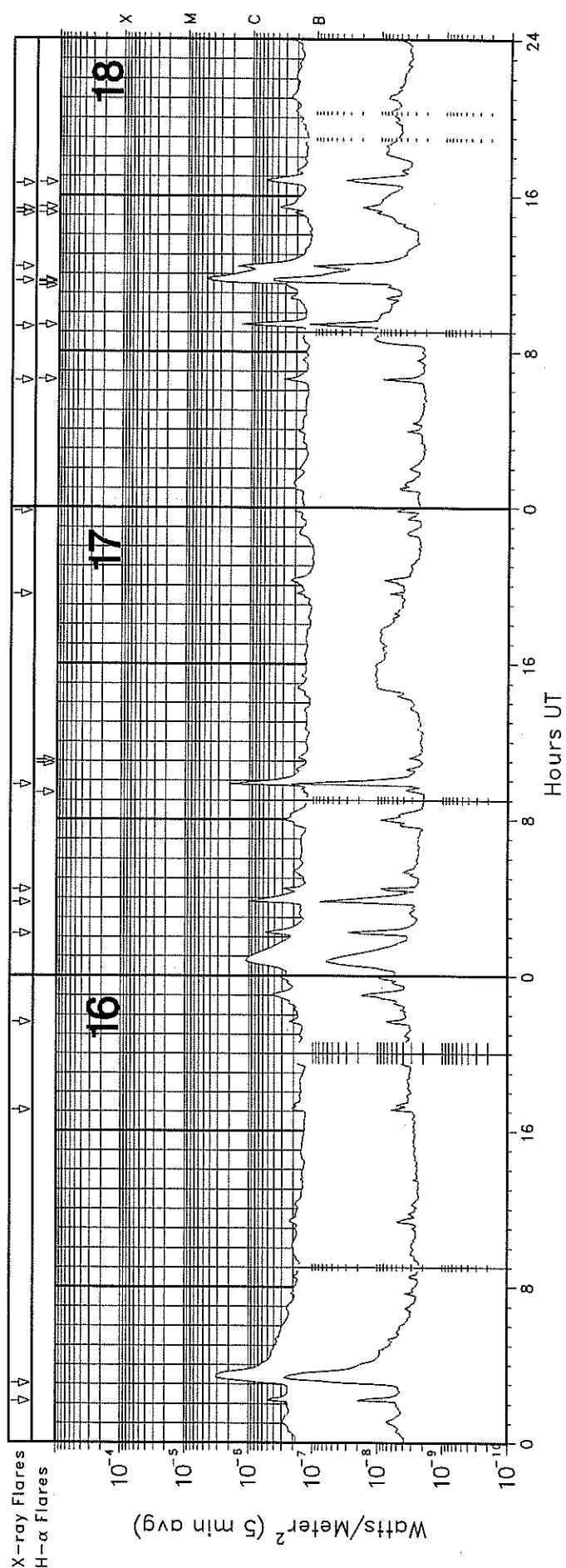
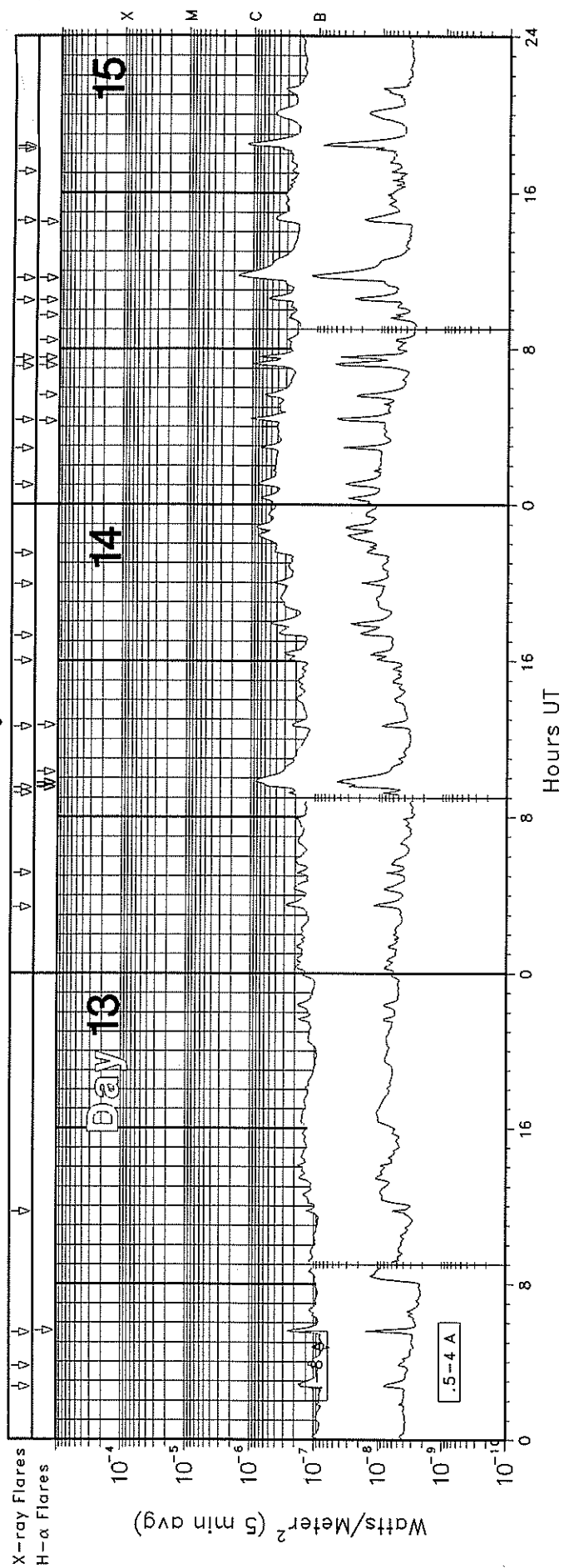
GOES X-RAY DETECTOR

February 1998



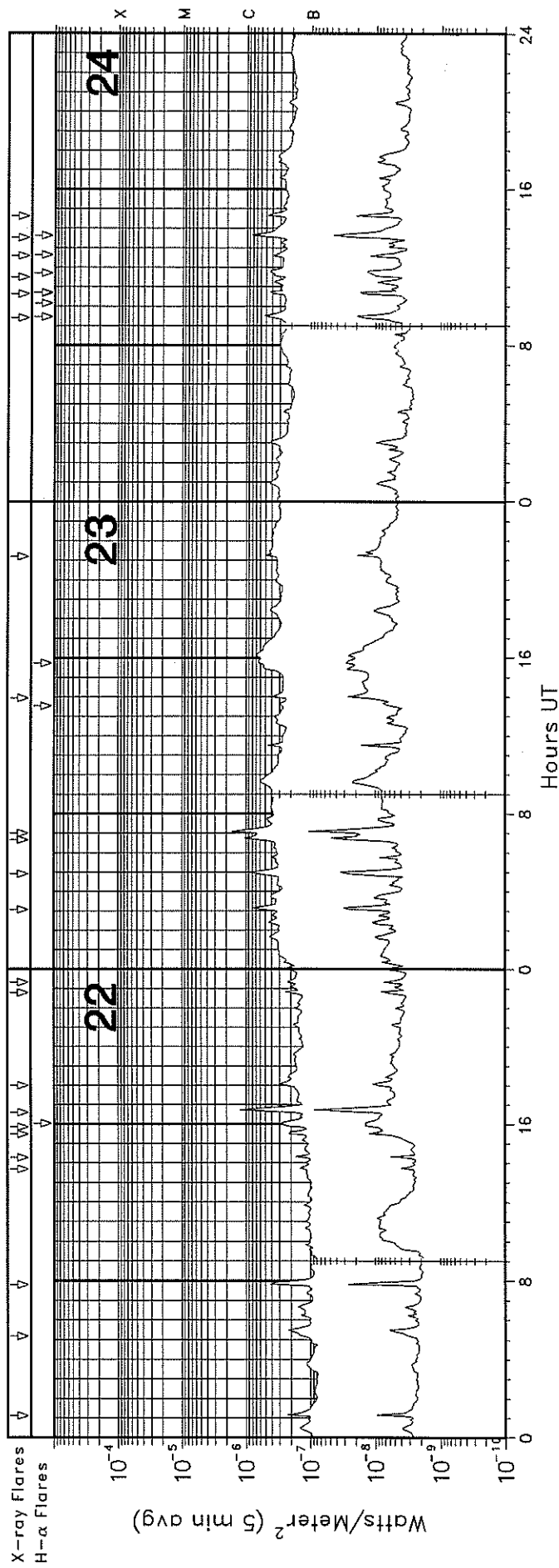
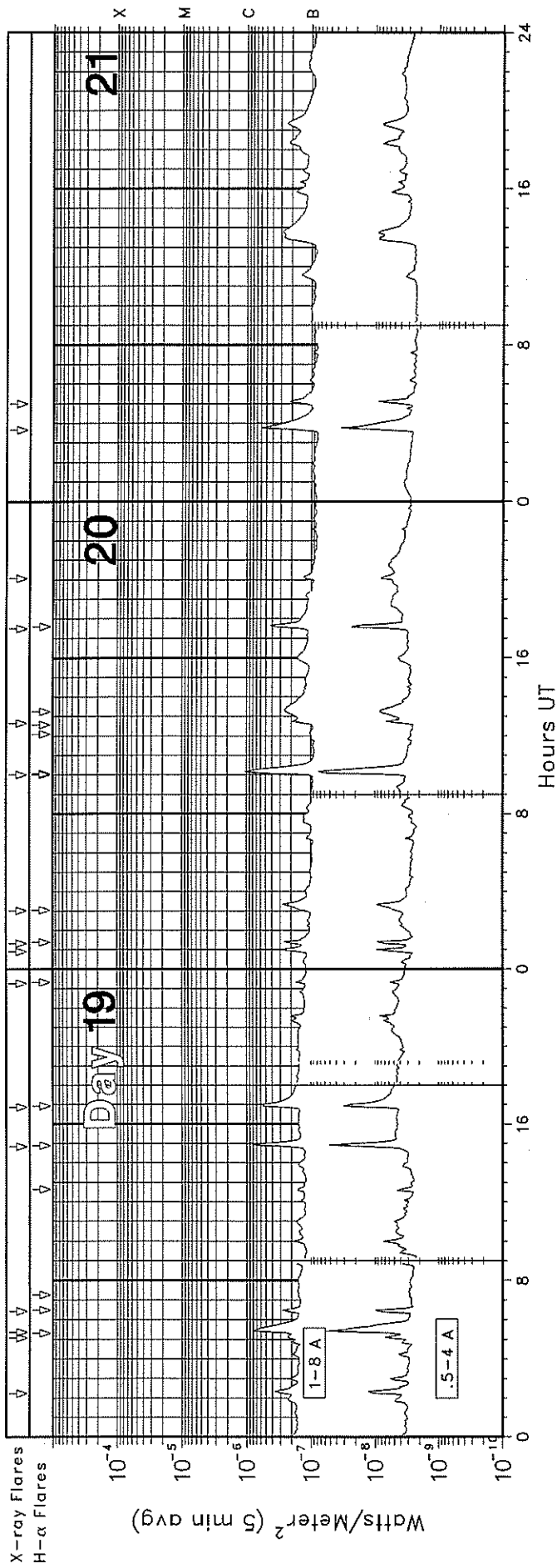
GOES X-RAY DETECTOR

February 1998



GOES X-RAY DETECTOR

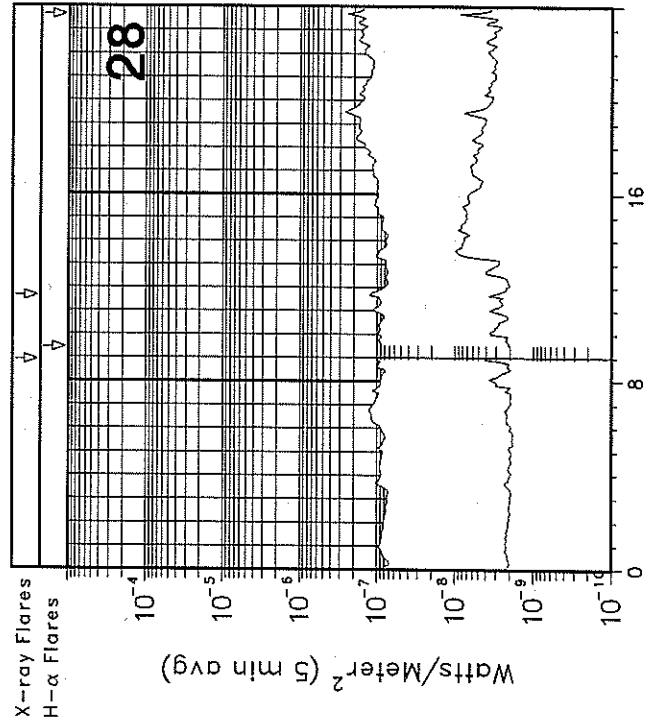
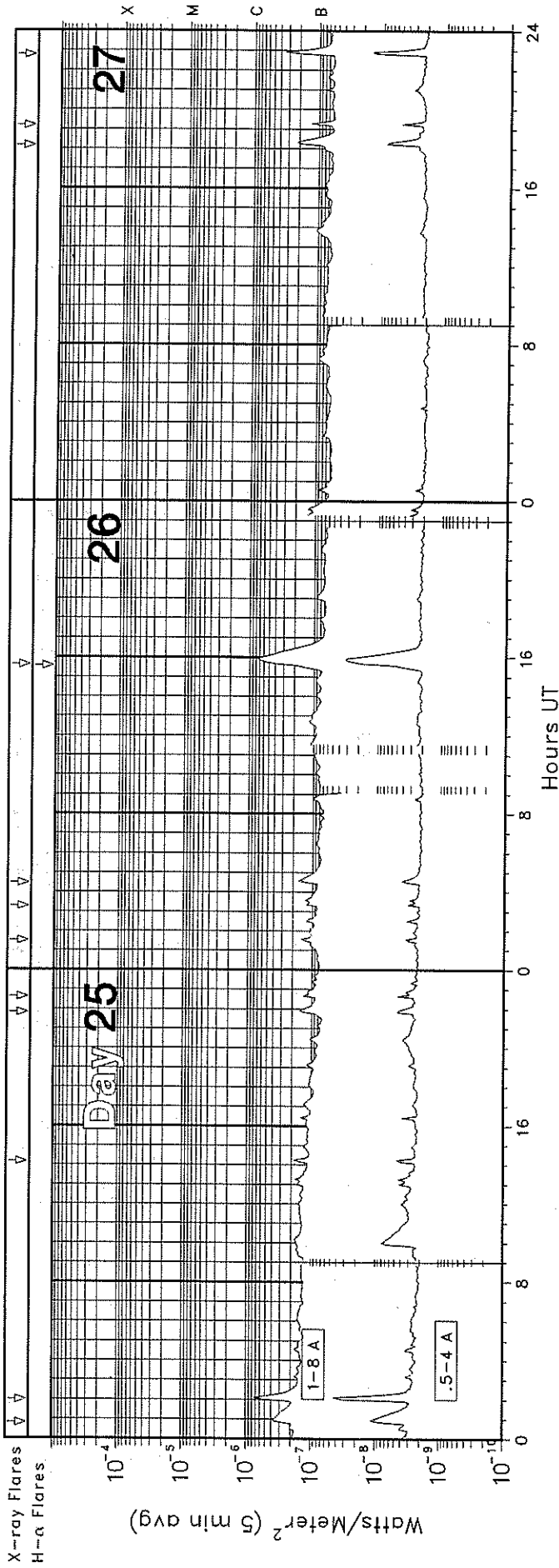
February 1998



GOES X-RAY DETECTOR

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GOES SOLAR X-RAY FLARES
Preliminary Listing

February 1998

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0937	0945	0953				B1.3		1.2E-04
02	0521	0529	0535				B4.6		2.6E-04
02	1554	1600	1603				B1.2		5.4E-05
02	1647	1650	1652				B1.6		3.9E-05
02	1731	1755	1816	N25	E74	SF	B7.7		1.3E-03
02	2006	2014	2023				B1.4		1.2E-04
03	0755	0803	0814				B3.0		2.6E-04
03	1355	1358	1402				B1.0		3.8E-05
03	1422	1437	1445				B3.7		3.1E-04
03	1852	1855	1859				B1.0		3.3E-05
04	1744	1751	1757				B6.6		3.1E-04
06	1912	1915	1918	S18	W56		B3.1	8152	6.3E-05
06	2031	2034	2036				B1.0		2.6E-05
06	2124	2129	2131				B3.1		7.1E-05
07	0801	0815	0833				B2.1		3.2E-04
07	1025	1032	1040				B2.2		1.6E-04
07	1142	1146	1155				B1.0		7.4E-05
07	1453	1457	1517				B1.0		1.4E-04
07	1709	1742	1757				B2.6		5.2E-04
08	1051	1055	1057				B2.5		7.3E-05
08	1754	1758	1807				B1.2		8.2E-05
08	1809	1816	1828				B2.6		2.4E-04
08	2114	2126	2136				B6.7		6.1E-04
08	2239	2243	2248				B1.0		4.8E-05
09	0437	0443	0446				B1.9		8.7E-05
09	1510	1515	1521				B1.5		8.1E-05
09	1546	1549	1551				B1.0		2.8E-05
09	1739	1747	1757				B1.2		1.2E-04
09	2034	2043	2054				B4.3		3.8E-04
10	0126	0141	0150				B1.1		1.2E-04
10	1742	1746	1752				B1.1		5.8E-05
11	0237	0241	0247				B1.1		6.1E-05
11	1054	1057	1100				B1.0		3.1E-05
11	1108	1111	1113				B1.0		2.6E-05
11	1917	1923	1935				B2.4		2.0E-04
11	2232	2236	2240				B1.0		4.6E-05
12	0429	0433	0436				B1.3		5.0E-05
12	0447	0500	0505				B1.8		1.7E-04
12	0550	0554	0557				B2.1		7.6E-05
12	0755	0802	0807				B4.8		2.5E-04
12	0823	0847	0854				B4.1		6.0E-04
12	0903	0907	0912				B3.6		1.7E-04
12	1230	1234	1237				B1.7		6.3E-05
12	1416	1419	1421				B2.7		6.9E-05
12	1505	1509	1514				B1.9		9.1E-05
12	1616	1624	1632				B3.3		2.9E-04
12	1736	1742	1745				B1.6		7.3E-05
12	1825	1829	1831	S25	E47	SF	B1.8	8156	4.6E-05
12	1919	1925	1927	S25	E45	SF	B2.2	8156	7.3E-05
12	2158	2206	2218				B3.7		3.6E-04
13	0242	0249	0301				B1.7		1.7E-04
13	0347	0357	0405				B1.2		1.2E-04
13	0530	0538	0543	S22	E40	SF	B2.9	8156	1.6E-04
13	1143	1146	1151				B1.4		5.9E-05

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
14	0326	0333	0341				B2.8		2.2E-04
14	0510	0513	0515				B2.2		5.9E-05
14	0915	0918	0920				B3.1		7.7E-05
14	0932	0952	1008	S24	E23		B8.5	8156	1.4E-03
14	1238	1243	1254				B2.5		2.1E-04
14	1600	1609	1617				B2.6		2.3E-04
14	1717	1726	1744				B3.8		5.1E-04
14	1955	2002	2007				B4.6		2.9E-04
14	2129	2226	2240				B8.3		2.2E-03
15	0100	0107	0114				B8.3		6.4E-04
15	0253	0257	0302				B8.3		3.7E-04
15	0420	0424	0429	S24	E14		C1.3	8156	5.3E-04
15	0707	0716	0722	S24	E14	SF	C1.0	8156	6.5E-04
15	0732	0738	0742	S23	E13	SF	B8.1	8156	3.9E-04
15	1028	1038	1045	S27	E09	SF	B5.8	8156	4.9E-04
15	1137	1148	1159	S26	E08	SF	C1.7	8156	1.8E-03
15	1434	1441	1456				B4.5		5.4E-04
15	1705	1709	1712				B2.9		1.1E-04
15	1814	1818	1823				B3.9		1.9E-04
15	1823	1829	1833				C1.8		6.8E-04
16	0208	0215	0218				B5.7		2.8E-04
16	0302	0326	0342				C3.2		5.1E-03
16	1704	1709	1715				B1.9		1.2E-04
16	2136	2140	2145				B2.4		1.2E-04
17	0210	0217	0222				B5.7		3.4E-04
17	0346	0351	0400				C1.0		5.9E-04
17	0426	0430	0432				B4.0		1.1E-04
17	0948	0953	0956	S27	W16		C2.9	8156	7.9E-04
17	1933	1936	1940				B2.1		7.5E-05
17	2350	2354	2357				B2.3		9.1E-05
18	0631	0636	0638	S24	W06	SF	B3.7	8158	1.1E-04
18	0917	0927	0931	S23	W24	SF	C1.5	8156	7.0E-04
18	1138	1147	1153	S24	W30		C5.2	8156	3.9E-03
18	1221	1226	1230				C1.8		7.9E-04
18	1506	1510	1513	S23	W26	SF	B2.5	8156	9.0E-05
18	1520	1528	1533	S23	W26	SF	B4.0	8156	2.5E-04
18	1638	1650	1657	S23	W27	SF	B6.8	8156	5.1E-04
19	0214	0221	0227				B3.8		2.6E-04
19	0504	0509	0513				B2.2		1.1E-04
19	0522	0528	0532	S27	W40	SF	C1.1	8156	4.1E-04
19	0626	0629	0632	S27	W40	SF	B4.1	8156	1.0E-04
19	1451	1457	1503	S27	W45	SF	B8.0	8156	4.2E-04
19	1652	1659	1704	S21	W43	SF	B7.7	8156	3.6E-04
19	2317	2321	2325	S21	W44	SF	B1.8	8156	7.5E-05
20	0055	0101	0104				B3.7		1.4E-04
20	0120	0125	0127	S27	W51	SF	B3.6	8156	1.1E-04
20	0301	0320	0328	S25	W48	SF	B2.8	8156	3.2E-04
20	1001	1011	1021	S27	W55	SF	C1.0	8156	8.1E-04
20	1240	1323	1344	S22	W51		B2.6	8156	7.8E-04
20	1731	1739	1746	S22	W57	SF	B4.9	8156	3.0E-04
20	2005	2009	2015				B1.4		7.8E-05
21	0339	0347	0355				B6.6		3.9E-04
21	0500	0508	0512				B2.7		1.3E-04
22	0107	0112	0116				B2.5		1.0E-04
22	0511	0531	0535				B2.3		2.5E-04
22	0748	0753	0757				B6.6		2.1E-04
22	1342	1345	1347				B1.6		4.1E-05

GOES SOLAR X-RAY FLARES
 Preliminary Listing

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 Feb 98

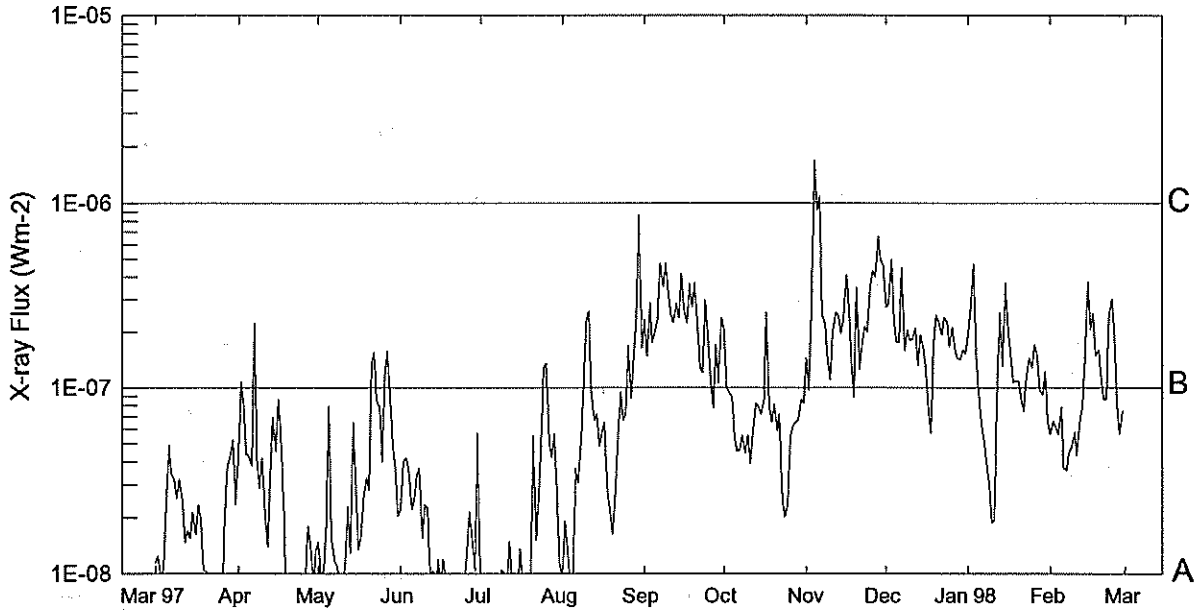
February 1998

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
22	1416	1421				B2.0		7.2E-05
22	1529	1533				B2.7		1.2E-04
22	1552	1606	S33	E37	SF	B3.0	8162	2.9E-04
22	1636	1646				C1.4		6.3E-04
22	1800	1806				B3.1		2.1E-04
22	2247	2251				B2.6		9.5E-05
22	2320	2323				B2.7		8.3E-05
23	0304	0310				B9.1		4.3E-04
23	0455	0501				B9.0		4.6E-04
23	0639	0646				C1.1		6.0E-04
23	0701	0707				C1.8		7.8E-04
23	1357	1401				B4.6		1.5E-04
23	2112	2116				B6.0		1.7E-04
24	0925	0931	N15	E08	SF	B5.4	8164	3.3E-04
24	1039	1046	N15	E10	SF	B5.9	8164	2.3E-04
24	1130	1151	N16	E10	SF	B4.2	8164	5.0E-04
24	1235	1239	N17	E08	SF	B4.9	8164	1.4E-04

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
24	1331	1340						
24	1438	1442						
24	1331	1340	N15	E07	SF	C1.0	8164	5.1E-04
24	1438	1442				B5.5		2.1E-04
25	0049	0059						
25	0200	0204				B3.7		6.4E-04
25	1411	1415				B8.6		4.6E-04
25	2149	2155				B2.3		6.7E-05
25	2238	2242				B1.6		1.3E-04
25	2238	2242				B1.5		6.0E-05
26	0131	0135						
26	0318	0322				B1.8		5.5E-05
26	0318	0322				B1.3		8.3E-05
26	0430	0435				B1.7		1.3E-04
26	1538	1556	S26	W05	SF	B7.6	8167	1.1E-03
27	1812	1820						
27	1812	1820				B2.3		1.7E-04
27	1912	1917				B1.5		6.1E-05
27	2248	2255				B4.3		1.9E-04
28	0854	0901						
28	0854	0901				B1.2		1.3E-04
28	1138	1143				B1.1		6.9E-05

*****EDITOR'S NOTE: Only GOES X-ray times now appear in this table, beginning with the July 1997 data. These data are from the NOAA Space Environment Center on-line archives (see <http://www.sec.noaa.gov>).

Preliminary GOES Satellite Daily X-Ray Background Mar 97 - Feb 98



Day	Mar 97	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 98	Feb
1	A4.6	A1.4	A2.2	<A1.0	<A1.0	B2.3	B2.0	B1.4	B1.4	B2.7	B1.9	A5.6
2	B1.0	<A1.0	A4.0	<A1.0	A1.9	B1.4	B1.0	A9.7	A9.7	B2.8	B2.6	A6.6
3	A7.9	A1.0	A4.2	<A1.0	A1.3	B2.8	A9.4	B2.6	B2.6	B4.9	B4.7	A6.1
4	A4.3	A1.8	A3.6	<A1.0	<A1.0	B1.7	A8.9	C1.6	C1.6	B2.2	B1.4	A5.5
5	A4.3	A7.9	A2.2	<A1.0	<A1.0	B2.0	A5.3	B9.1	B9.1	B1.7	A9.4	A7.9
6	A3.8	A1.5	A2.5	<A1.0	A3.6	B2.3	A4.5	C1.0	C1.0	B1.7	A6.5	A3.6
7	B2.2	A1.1	A3.3	<A1.0	A3.0	B4.7	A4.6	B2.4	B2.4	B4.4	A5.0	A3.5
8	A4.1	A1.1	A3.6	<A1.0	A5.2	B3.5	A5.5	B2.2	B2.2	B1.5	A3.8	A4.5
9	A2.8	<A1.0	A1.5	A1.0	A8.8	B4.8	A4.4	B1.4	B1.4	B2.0	A2.9	A4.7
10	A4.1	<A1.0	A2.3	A1.0	B2.3	B3.3	A5.5	B1.1	B1.1	B1.8	A1.8	A5.7
11	A2.0	A1.1	A2.2	<A1.0	B2.5	B2.4	A3.9	B2.0	B2.0	B1.8	A1.9	A4.3
12	A1.4	A2.2	<A1.0	A1.4	A9.5	B2.2	A5.8	B2.5	B2.5	B2.1	B1.1	A6.6
13	A3.2	A1.2	A1.0	<A1.0	A6.6	B2.8	A8.2	B2.4	B2.4	B1.3	B2.5	A7.9
14	A6.9	A6.4	<A1.0	<A1.0	A7.2	B2.4	A7.9	B1.9	B1.9	B1.9	B1.3	B1.4
15	A4.5	A3.3	A1.2	<A1.0	A4.7	B4.1	A7.1	B2.3	B2.3	B1.6	B3.6	B3.7
16	A8.6	A1.3	<A1.0	A1.3	A5.7	B2.6	A8.6	B4.1	B4.1	B1.3	B2.0	B2.0
17	A5.5	A1.5	A1.1	<A1.0	A6.5	B2.2	B2.5	B2.6	B2.6	A7.5	B1.5	B2.5
18	A1.9	A2.5	<A1.0	<A1.0	A2.7	B3.6	A8.0	B1.3	B1.3	A5.7	B1.0	B1.4
19	<A1.0	A3.2	<A1.0	A1.0	A2.1	B2.7	A6.5	A8.9	A8.9	B1.7	B1.0	B1.6
20	<A1.0	A2.7	<A1.0	<A1.0	A1.6	B3.7	A8.1	B3.5	B3.5	B2.4	B1.0	B1.1
21	<A1.0	B1.3	<A1.0	A5.5	A2.4	B2.3	A5.8	B1.2	B1.2	B2.2	A8.6	A8.6
22	<A1.0	B1.5	<A1.0	A1.5	A5.5	B1.2	A7.2	B1.7	B1.7	B1.9	A7.4	A8.6
23	<A1.0	A8.5	<A1.0	A2.6	A9.5	B1.2	A2.4	B2.1	B2.1	B2.4	B1.1	B2.4
24	<A1.0	A7.8	<A1.0	A5.0	A6.6	B2.9	A2.0	B2.0	B2.0	B2.2	B1.4	B3.0
25	<A1.0	A3.9	<A1.0	B1.2	A7.2	B1.7	A2.3	B3.6	B3.6	B1.6	B1.2	B1.8
26	<A1.0	B1.1	A1.4	B1.3	B1.6	B1.0	A5.5	B4.3	B4.3	B2.1	B1.7	A8.0
27	A1.8	B1.5	A2.1	A5.0	A8.7	A7.8	A6.3	B3.9	B3.9	B1.6	B1.5	A5.6
28	A1.4	A8.4	A1.4	A4.2	B1.4	B1.7	A6.5	B6.6	B6.6	B1.4	A9.9	A7.5
29	<A1.0	A4.8	A1.0	A5.6	B2.3	B1.0	A6.7	B5.0	B5.0	B1.4	A9.1	
30	A1.3	A3.6	A5.7	A2.7	B8.6	B2.4	A8.6	B4.6	B4.6	B1.6	B1.2	
31	A2.3	A2.0		A1.1	B1.6		A8.2			B1.5	A6.6	

ACTIVE PROMINENCES AND FILAMENTS

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FEBRUARY 1998

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
01	AFS	1248E	1834	N29	W34	01 30.0		01	7	9	E	RAMY	8145	
01	DSF	1834U	1132U	N24	W41	01 29.7	2	08	0	0	E	RAMY		
02	DSF	0002U	1416U	N20	E29	02 4.2	2	18	0	0	E	HOLL		
02	AFS	0845E	1043	N15	W50	01 29.7		01	5	6	E	LEAR	8146	
02	DSF	1015U	2239U	N29	E15	02 3.6	2	19	0	0	E	LEAR		
02	ASR	1725	1801D	S37	W90	01 26.6			8	9	E	RAMY		
02	DSD	1730E	2051D	S30	E13	02 3.7		02	7	7	E	RAMY	8148	
03	AFS	1129E	2155	N25	W19	02 2.0		02	9	9	E	RAMY	8150	
03	DSD	1323E	1715D	N25	W23	02 1.8		01	9	9	E	RAMY	8150	
03	DSD	1907E	2155	N27	W27	02 1.7		02	9	9	E	RAMY	8150	
04	AFS	1151E	1946	N26	W34	02 1.8		02	9	9	E	RAMY	8150	
05	AFS	1308E	2210	S19	W39	02 2.6		01	9	9	E	RAMY	8152	
05	AFS	1525E	0012	S17	W41	02 2.5		01	9	9	E	HOLL	8152	
06	AFS	1203E	2151	S17	W53	02 2.5		01	9	9	E	RAMY	8152	
06	DSD	1603E	1844D	S23	E44	02 10.0		01	9	9	E	RAMY	8151	
06	DSD	1827E	1852D	S18	W55	02 2.6		04	9	9	E	RAMY	8152	Flare Associated
07	AFS	0551E	1043	S19	W60	02 2.7		02	5	9	E	LEAR	8152	
07	AFS	1202E	2054	S19	W66	02 2.5		02	9	9	E	RAMY	8152	
07	AFS	1411E	0032	S17	W67	02 2.5		02	9	9	E	HOLL	8152	
08	DSD	1321E	1352	S16	W81	02 2.4		02	9	9	E	RAMY	8152	
08	ADF	1326E	1352	S35	E19	02 10.1	1	13	9	9	E	RAMY	8151	
08	AFS	2343E	1035	S37	E40	02 12.2		02	9	9	E	LEAR	8153	
09	DSD	0715	0749	N23	W13	02 8.3		02	0	0	E	LEAR	8149	
09	DSD	0723	0808	S39	E37	02 12.3		01	0	0	E	LEAR	8153	
09	DSD	0736	0802	S22	E08	02 9.9		03	0	0	E	LEAR	8151	
09	AFS	1855E	2207	N06	E35	02 12.4		01	7	6	E	RAMY		
10	DSF	0948U	0005U	N28	W16	02 9.1	2	06	0	0	E	LEAR		
10	AFS	1150E	2213	S24	E22	02 12.2		01	9	9	E	RAMY	8154	
10	AFS	1415E	0034	S24	E18	02 12.0		01	7	6	E	HOLL	8154	
10	AFS	1600E	2213	S13	E07	02 11.2		01	4	3	E	RAMY	8155	
10	DSD	1610E	2010D	S28	E66	02 15.8		01	4	4	E	RAMY	8156	
10	BSD	1743E	2010D	S28	E67	02 16.0		01	4	5	E	RAMY	8156	
10	DSF	2130U	1532U	N26	W03	02 10.7		08	0	0	E	RAMY		
11	DSF	0011U	1433U	N22	E01	02 11.1		09	0	0	E	HOLL		
11	ASR	0130E	1023	S13	E90	02 17.8			9	9	E	LEAR		
11	APR	0155E	1023	S38	E90	02 18.3			5	8	E	LEAR		
11	ADF	0335E	1023	N34	W20	02 9.5	1	05	6	5	E	LEAR		
11	AFS	1210E	2119	S13	W04	02 11.2		01	8	7	E	RAMY	8155	
11	AFS	1224E	2119	S26	E62	02 16.3		01	7	7	E	RAMY	8156	
11	DSF	2042U	1217U	S29	W07	02 11.3		05	0	0	E	RAMY		
11	AFS	2318E	0934	S23	E53	02 16.0		03	9	9	E	LEAR	8156	
12	DSF	0232U	0457U	S24	E01	02 12.2	1	10	0	0	E	LEAR	8154	
12	ADF	0430E	0934	S15	W13	02 11.2	1	04	5	8	E	LEAR	8155	
12	DSD	0510E	0637D	N05	E02	02 12.4		04	4	6	E	LEAR		
12	AFS	1205E	2213	S27	E47	02 16.2		01	9	9	E	RAMY	8156	
12	AFS	1429E	0009	S27	E43	02 15.9		03	9	9	E	HOLL	8156	
12	DSD	1706E	2213	S26	E44	02 16.1		02	9	9	E	RAMY	8156	
12	AFS	2330E	0919	S24	E42	02 16.2		03	7	6	E	LEAR	8156	
13	AFS	0330E	0919	S17	E62	02 17.8		03	7	8	E	LEAR	8158	
13	AFS	1148E	2054	S23	E35	02 16.2		01	9	9	E	RAMY	8156	
13	DSD	1352	2054	S25	E35	02 16.3		01	9	9	E	RAMY	8156	
13	DSD	1409E	2027	S25	E33	02 16.1		03	9	9	E	HOLL	8156	
13	DSD	1409E	2027	S28	E35	02 16.3		02	9	9	E	HOLL	8156	
13	AFS	1701E	2054	S22	E54	02 17.8		01	6	5	E	RAMY	8158	
13	DSF	2054U	1130U	S27	W17	02 12.5	2	05	0	0	E	RAMY	8154	
14	AFS	1138E	1412	S26	E21	02 16.1		02	9	9	E	RAMY	8156	
14	AFS	1141E	1412	N32	E49	02 18.4		01	9	9	E	RAMY	8159	

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ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
14	DSD	1338E	1412	S24	E23	02	16.3		01	9	9	E	RAMY	8156	
14	AFS	1610E	2133	N31	E47	02	18.4		01	8	7	E	HOLL	8159	
14	ADF	2338E	0350D	N29	E22	02	16.7	1	05	5	5	E	LEAR	8157	
15	AFS	0115E	1040	N36	E39	02	18.2		02	6	6	E	LEAR	8159	
15	DSD	0146E	0230D	S25	E17	02	16.4		03	9	9	E	LEAR	8156	
15	DSF	0350U	0735U	N33	E23	02	17.0	2	05	9	9	E	LEAR	8157	
15	DSD	0515E	1040	S26	E16	02	16.5		02	9	9	E	LEAR	8156	
15	AFS	0845E	1040	N26	E44	02	18.8		01	9	9	E	LEAR		
15	ADF	0845E	1040	N37	E34	02	18.1	1	05	9	9	E	LEAR	8159	
15	AFS	0905E	1520	S24	E10	02	16.1		03	9	9	E	SVTO	8156	
15	ADF	0906E	1520	S28	E10	02	16.2	1	05	9	9	E	SVTO	8156	
15	DSD	0907E	1520	S23	E08	02	16.0		03	9	9	E	SVTO	8156	
15	AFS	1355E	2129	S24	E07	02	16.1		03	4	6	E	RAMY	8156	
15	DSF	1458U	0750U	S51	W53	02	11.1		14	0	0	E	SVTO		
15	AFS	1555E	2129	N23	E40	02	18.7		01	9	9	E	RAMY		
16	DSD	0735E	0920D	S28	E02	02	16.5		04	9	9	E	SVTO	8156	
16	DSD	0735E	0930D	S21	E04	02	16.6		02	9	9	E	SVTO	8156	
16	AFS	1158E	2002D	N21	E29	02	18.7		01	6	7	E	RAMY	8160	
16	DSD	1404	1436	N81	E22	02	18.6		02	9	9	E	RAMY	8160	
16	AFS	1405E	2007	S27	E08	02	17.2		02	9	9	E	HOLL	8156	
17	DSD	0630E	1505	S28	W08	02	16.6		02	9	9	E	SVTO	8156	
17	AFS	0635E	1005D	N20	E20	02	18.8		02	9	9	E	SVTO	8160	
17	DSD	1122E	1157	S26	W09	02	16.8		04	9	9	E	RAMY	8156	
17	DSD	1305E	1915D	S23	W21	02	15.9		06	9	9	E	RAMY	8156	
17	DSD	1405E	2038	S22	W26	02	15.6		05	9	9	E	HOLL	8156	
17	AFS	1921E	2144	N25	E44	02	21.2		01	4	7	E	RAMY	8161	
18	BSD	0920	0927	S24	W26	02	16.4		02	9	9	E	LEAR	8156	Flare Associated
18	ADF	0936E	1604	N25	E29	02	20.6	1	04	9	9	E	SVTO	8156	
18	ADF	0936E	1604	S22	W24	02	16.5	1	04	9	9	E	SVTO	8156	
18	DSD	1042	1053U	S23	W24	02	16.6	1	01		9	V	KHAR		
18	DSD	1228E	1254D	S22	W23	02	16.7		05	0	0	E	RAMY	8156	Flare Associated
18	DSD	1511	1523	S23	W26	02	16.6		02	6	7	E	RAMY	8156	
18	DSD	1643E	1657D	S22	W27	02	16.6		02	0	0	E	RAMY	8156	Flare Associated
18	AFS	1645E	2210	S21	W12	02	17.8		01	9	9	E	RAMY	8158	
18	ADF	1645E	2210	S21	W26	02	16.7	1	02	9	9	E	RAMY	8156	
18	DSD	2108E	2134	S22	W41	02	15.7		08	9	5	E	HOLL	8156	
19	DSD	1343E	1613D	S24	W43	02	16.2		04	9	9	E	RAMY	8156	
19	BSD	1446	1452	S24	W39	02	16.6		04	0	0	E	HOLL	8156	
19	DSD	1656	2354	S21	W42	02	16.5		07	9	9	E	HOLL	8156	Flare Associated
20	DSD	0551	0846	N28	W41	02	17.0		03	0	0	E	LEAR	8157	
20	ADF	0629E	1547	S22	W49	02	16.5	1	04	9	9	E	SVTO	8156	
20	DSD	0811	0838	S26	W49	02	16.5		01	8	7	E	LEAR	8156	
20	AFS	1312E	1610D	S22	E03	02	20.8		01	4	4	E	RAMY		
20	AFS	1612E	2138	S34	E62	02	25.6		01	5	7	E	RAMY		
20	AFS	1950E	2154	S35	E58	02	25.5		01	8	9	E	HOLL		
21	AFS	0011	0509	S33	E56	02	25.4		02	9	9	E	LEAR		
21	DSD	0729	0754	S28	W65	02	16.2		02	0	0	E	LEAR	8156	
21	AFS	1225E	1548	S23	W11	02	20.7		03	9	9	E	SVTO		
22	ADF	0143E	1003	S20	E10	02	22.8	1	05	9	8	E	LEAR		
22	AFS	0910E	1540	S22	W21	02	20.8		02	9	9	E	SVTO		
22	ASR	1006E	1019D	S20	W90	02	15.5			9	9	E	SVTO	8156	
22	AFS	1053E	1431D	S18	W64	02	17.6		01	9	9	E	SVTO	8158	
22	AFS	1127E	2206	S21	W21	02	20.9		01	9	9	E	RAMY	8163	
22	AFS	1150E	2206	S18	W65	02	17.5		01	5	3	E	RAMY	8158	
22	ASR	1320	1710D	S21	W86	02	16.0			6	6	E	RAMY	8156	
22	AFS	1508E	0019	S22	W25	02	20.7		02	9	9	E	HOLL	8163	
22	AFS	1508E	1900D	S17	W67	02	17.5		01	7	8	E	HOLL	8158	
23	AFS	0011E	1026	S22	W29	02	20.8		02	9	9	E	LEAR	8163	
23	AFS	0848E	1435	S22	W35	02	20.7		02	9	9	E	SVTO	8163	
23	DSF	1026	2320	N25	E13	02	24.4	2	17	9	9	E	LEAR		
23	AFS	1354E	1435	N15	E21	02	25.2		02	9	9	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

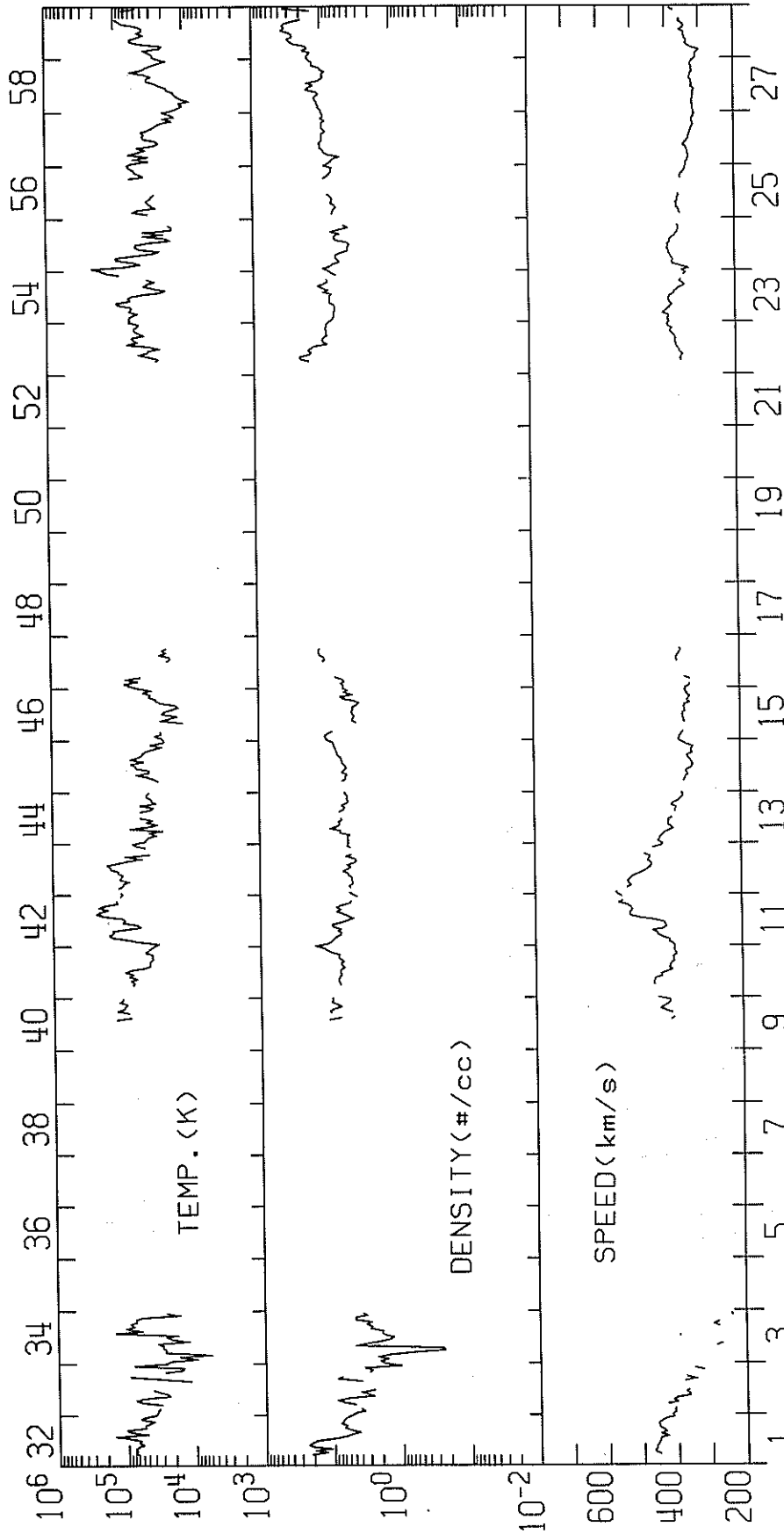
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FEBRUARY 1998

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/ USAF Reg#	Remarks
23	AFS	1358E	0004	N15	E20	02 25.1		02	9	9	E	HOLL 8164	
23	AFS	1358E	0004	S21	W38	02 20.7		02	8	9	E	HOLL 8163	
23	ADF	1415E	2058	N27	E10	02 24.4	1	12	9	9	E	HOLL	
23	DSF	1422U	0709U	N26	E12	02 24.5		18	0	0	E	SVTO	
23	DSF	2058	2155	N28	E11	02 24.7	3	19	9	9	E	HOLL	
23	DSF	2219U	1108U	N22	W06	02 23.5		19	0	0	E	RAMY	
23	AFS	2335E	1014	N15	E13	02 25.0		02	7	8	E	LEAR 8164	
23	AFS	2335E	1014	S22	W44	02 20.6		03	6	5	E	LEAR 8163	
24	ASR	0526	0800	S22	W90	02 17.3			9	8	E	LEAR 8158	
24	AFS	0639E	1550	N16	E10	02 25.0		02	9	9	E	SVTO 8164	
24	AFS	0932E	1550	S27	E23	02 26.2		01	9	9	E	SVTO	
24	AFS	1110E	2220	N16	E11	02 25.3		02	9	9	E	RAMY 8164	
24	DSD	1150	1155	N16	E09	02 25.2		02	9	9	E	RAMY 8164	Flare Associated
24	DSD	1238	1250	N17	E08	02 25.1		02	9	7	E	RAMY 8164	Flare Associated
24	DSD	1328E	1610D	N23	W22	02 22.9		02	5	6	E	RAMY 8166	
24	AFS	1557E	2239	S27	E20	02 26.2		02	9	9	E	HOLL 8167	
24	AFS	1608E	2220	S27	E20	02 26.2		01	9	9	E	RAMY 8167	
24	ASR	1813E	1920D	S20	W90	02 17.9			9	9	E	RAMY 8158	
24	DSD	2010E	2239	N17	E05	02 25.2		04	7	8	E	HOLL 8164	
24	ASR	2019E	2239	S18	W90	02 18.0			9	9	E	HOLL 8158	
24	ASR	2034	2220	S20	W90	02 18.0			9	9	E	RAMY 8158	
25	AFS	0350	0928	N15	W01	02 25.1		02	8	9	E	LEAR 8164	
25	AFS	0350E	0928	S27	E14	02 26.2		01	8	8	E	LEAR	
25	AFS	1115E	2135	N16	W05	02 25.1		01	9	9	E	RAMY 8164	
25	AFS	1116E	2135	S22	E10	02 26.2		01	5	4	E	RAMY 8167	
25	AFS	1118E	1600D	S23	W30	02 23.1		01	5	4	E	RAMY 8166	
25	DSD	1120E	1220D	N26	W34	02 22.8		02	6	7	E	RAMY	
25	ADF	1230E	1605D	N25	W25	02 23.6	1	04	4	5	E	RAMY	
25	DSD	1410E	1605D	N17	W07	02 25.0		01	6	6	E	RAMY 8164	
25	ASR	2110E	0034	N23	W90	02 18.9			9	9	E	HOLL 8160	
26	AFS	0623E	1025	N16	W16	02 25.0		02	8	9	E	LEAR 8164	
26	AFS	0814E	1529	N17	W17	02 25.0		03	9	9	E	SVTO 8164	
26	AFS	1435E	0051	N18	W18	02 25.2		01	7	6	E	HOLL 8164	
26	ASR	1605E	1724D	S17	W90	02 19.8			8	7	E	HOLL 8163	
27	AFS	0355E	1026	N16	W27	02 25.1		02	5	6	E	LEAR 8164	
27	AFS	0439	1026	N15	W61	02 22.6		02	9	7	E	LEAR 8168	
27	AFS	0730E	1454	S19	W36	02 24.6		02	9	9	E	SVTO 8169	
27	AFS	1140E	1629	S25	W16	02 26.2		02	7	8	E	RAMY 8167	
27	AFS	1142E	1629	S16	W33	02 25.0		02	9	9	E	RAMY	
27	AFS	1233E	1629	S24	E07	02 28.1		01	9	9	E	RAMY 8171	
27	DSD	1421	1515D	S24	E07	02 28.1		01	9	9	E	RAMY 8171	
28	AFS	0019E	1013	N16	W39	02 25.0		01	9	6	E	LEAR 8164	
28	AFS	0019E	1013	S21	W46	02 24.5		01	9	9	E	LEAR 8169	
28	AFS	0019E	1013	S25	E03	02 28.2		01	9	9	E	LEAR 8171	
28	AFS	0651E	1613	S24	W02	02 28.1		03	9	9	E	SVTO 8171	
28	AFS	0925E	1613	N18	W44	02 25.0		03	9	9	E	SVTO 8164	
28	AFS	1146E	2208	S23	W05	02 28.1		01	9	9	E	RAMY 8171	
28	AFS	1148E	1325D	S25	W29	02 26.2		01	4	5	E	RAMY 8167	
28	DSD	1243	1610D	S24	W06	02 28.1		02	9	9	E	RAMY 8171	
28	DSD	1314	2208	S18	W58	02 24.1		01	9	9	E	RAMY 8169	
28	BSD	1316	1328	S17	W58	02 24.1		01	7	8	E	RAMY 8169	
28	AFS	1353E	0052	S18	W54	02 24.5		01	9	9	E	HOLL 8169	
28	AFS	1353E	0052	S24	W07	02 28.0		02	9	9	E	HOLL 8171	
28	AFS	1605E	2208	S18	W57	02 24.3		01	9	9	E	RAMY 8169	
28	ADF	1658E	2208	N18	W51	02 24.8	1	03	9	9	E	RAMY 8164	
28	AFS	2225E	1028	N15	W54	02 24.8		01	9	9	E	LEAR 8164	
28	AFS	2225E	1028	S21	W56	02 24.6		01	9	9	E	LEAR 8169	
28	AFS	2225E	1028	S24	W12	02 28.0		02	9	9	E	LEAR 8171	

IMP 8 SOLAR WIND PLASMA
FEBRUARY 1998

MIT/CSR IMP 8 PLASMA PARAMETERS



FEB 1998

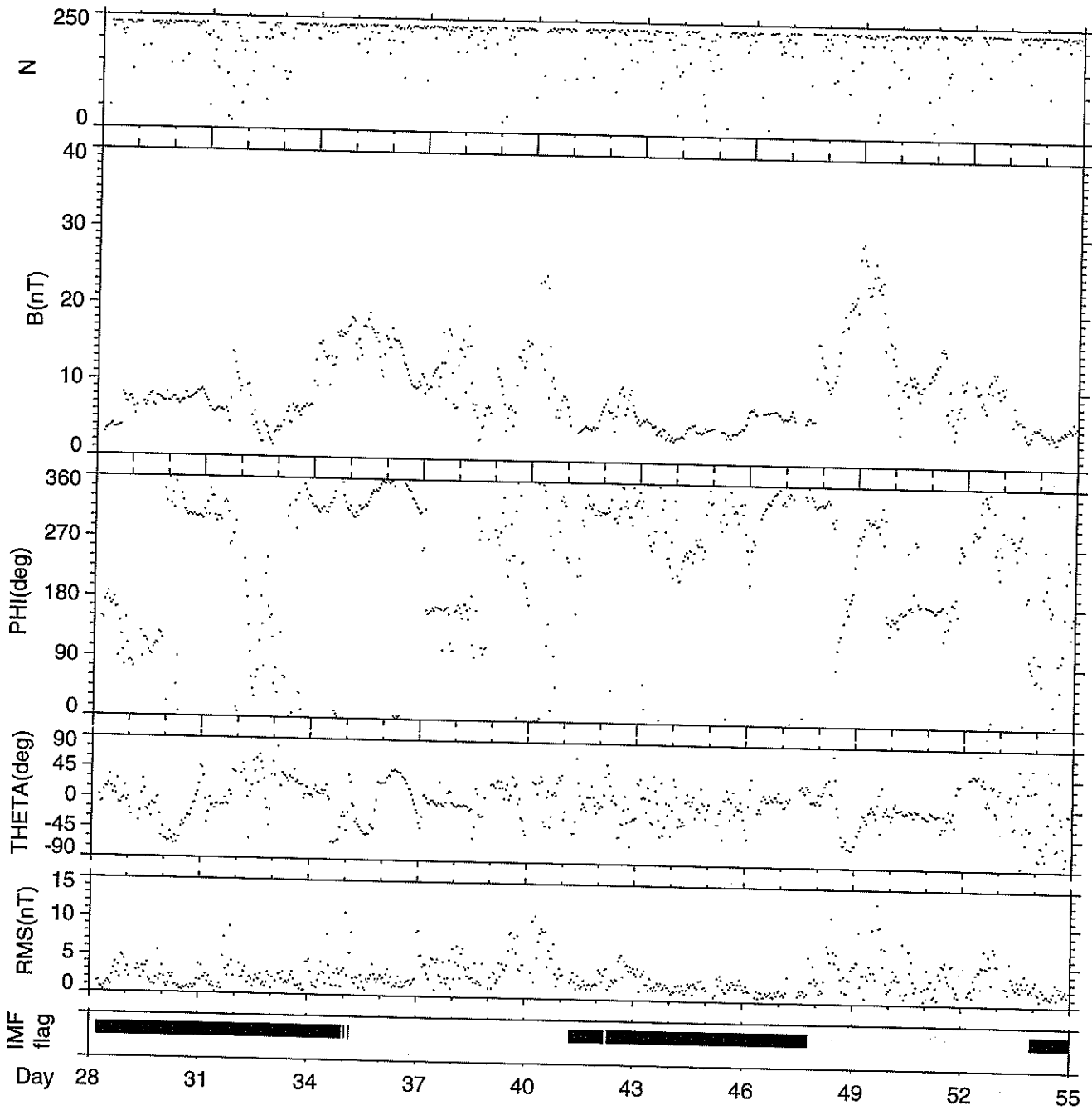
IMP 8 MIT ONE-HOUR AVERAGES

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 28 - 55

January 28 1998 - February 24 1998



Generation Date : Mon May 11 12:48:41 1998

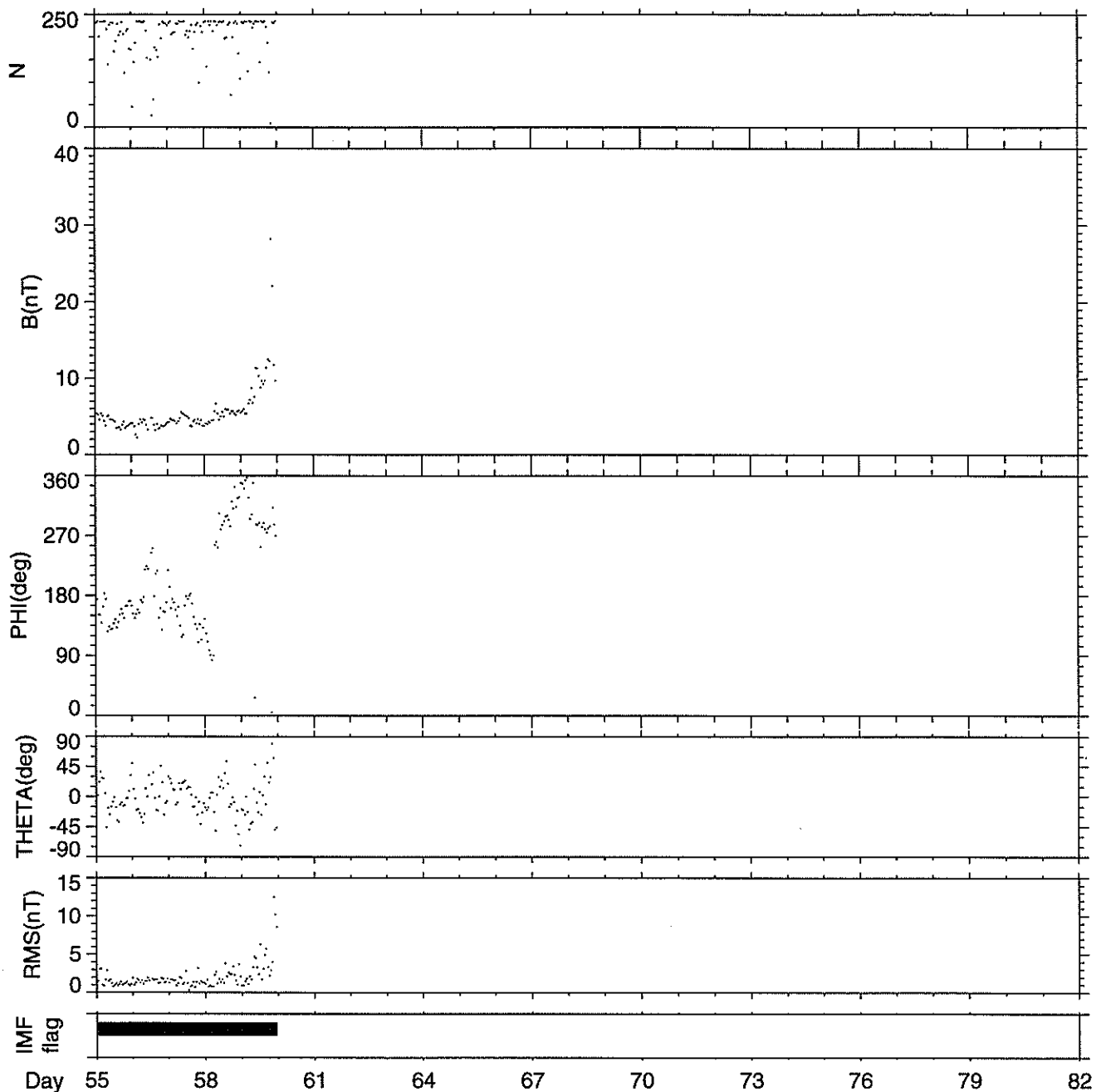
NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 55 - 59

February 24 1998 - February 28 1998



Generation Date : Mon May 11 12:48:44 1998

NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.



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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."