

SEPTEMBER 2006 NUMBER 745 - Part II

Solar-Geophysical Data comprehensive reports



Data for March 2006 and Miscellaneous

Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

NEW DATA:

**ACE Solar Wind, Interplanetary Magnetic Field and
Particles -- Monthly Plots**

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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
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BOULDER,
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Data for March 2006 and Late Data

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SOLAR-GEOPHYSICAL DATA

Number 745
(Issued in Two Parts)

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MARCH 2006

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)			
			26 2126		2138	No	Flare	Patrol													
			26 2200		2231	No	Flare	Patrol													
			26 2246		2400	No	Flare	Patrol													
			27 0000		0507	No	Flare	Patrol													
			27 0512		0519	No	Flare	Patrol													
			27 1249		1304	No	Flare	Patrol													
			27 1603		1610	No	Flare	Patrol													
			27 1637		2323	No	Flare	Patrol													
			28 0016		0539	No	Flare	Patrol													
			28 0552		0715	No	Flare	Patrol													
			28 0815		0819	No	Flare	Patrol													
			28 1121		1149	No	Flare	Patrol													
			28 1220		1241	No	Flare	Patrol													
			28 1246		1315	No	Flare	Patrol													
			28 1535		1538	No	Flare	Patrol													
			28 1602		1611	No	Flare	Patrol													
			28 1626		1915	No	Flare	Patrol													
			28 1936		2400	No	Flare	Patrol													
			29 0000		0028	No	Flare	Patrol													
			29 0116		0317	No	Flare	Patrol													
			29 0343		0406	No	Flare	Patrol													
			29 1300		1313	No	Flare	Patrol													
			29 1432		1437	No	Flare	Patrol													
			29 1624		2400	No	Flare	Patrol													
			30 0000		0514	No	Flare	Patrol													
0009	HOLL	30	1514	1515	1522	S14	E39	10865	04	2.6	8	SF		3	E			26		F	
0010	HOLL	30	1525	1528	1533	S13	E40	10865	04	2.7	8	SF		3	E			10		F	
		30	1617		1807	No	Flare	Patrol													
0011	HOLL	30	1825	1825	1829	S12	E34	10865	04	2.3	4	SF		3	E			16		E	
			30 1927		2335	No	Flare	Patrol													
			31 0116		0352	No	Flare	Patrol													
			31 0358		0507	No	Flare	Patrol													
			31 1627		1640	No	Flare	Patrol													
			31 1651		1822	No	Flare	Patrol													
			31 2004		2400	No	Flare	Patrol													

"Remarks"

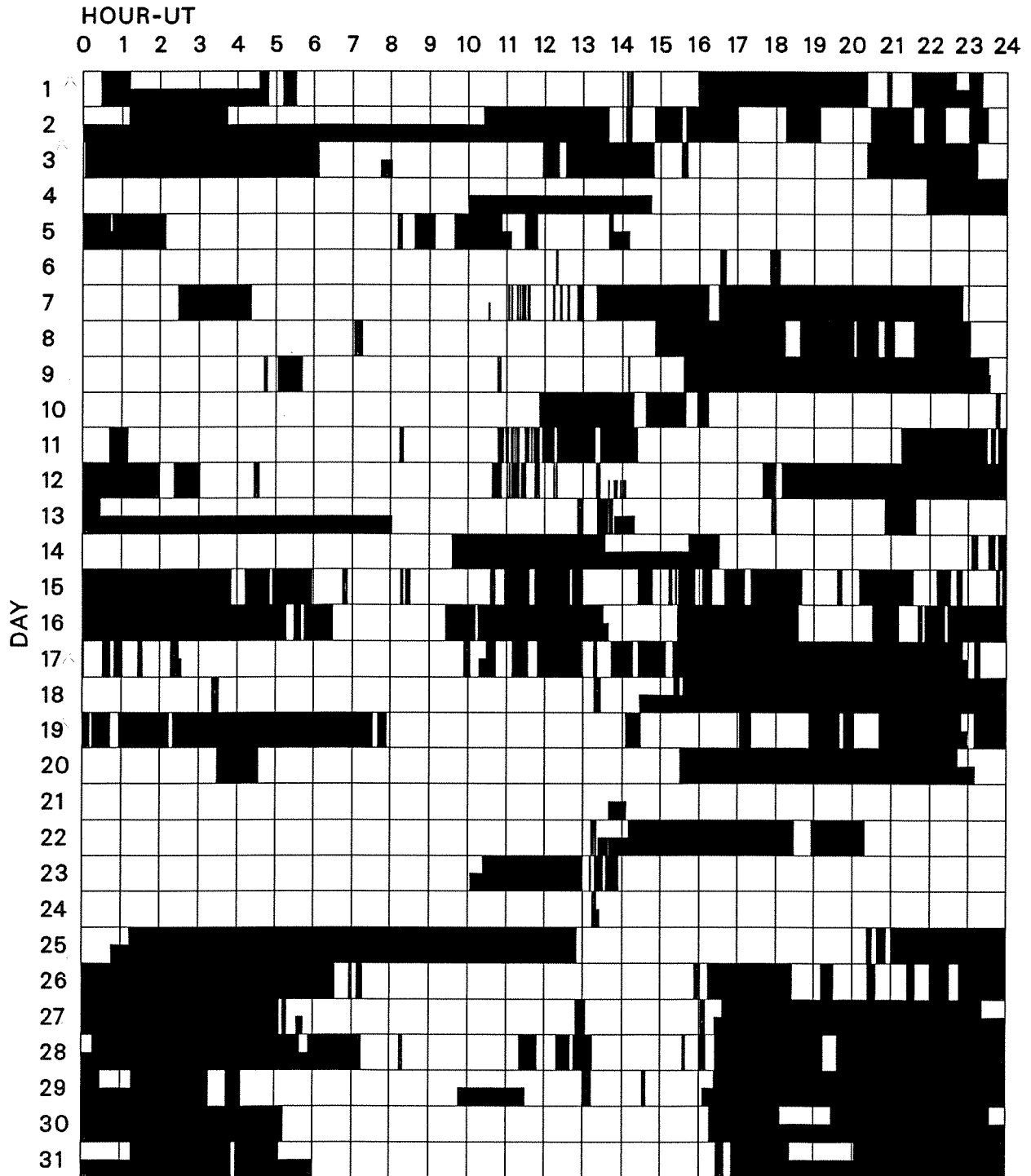
A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = 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.

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.

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 2006



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 or cinematographic); portions of a panel with only the bottom half shaded mark times of only visual patrol.

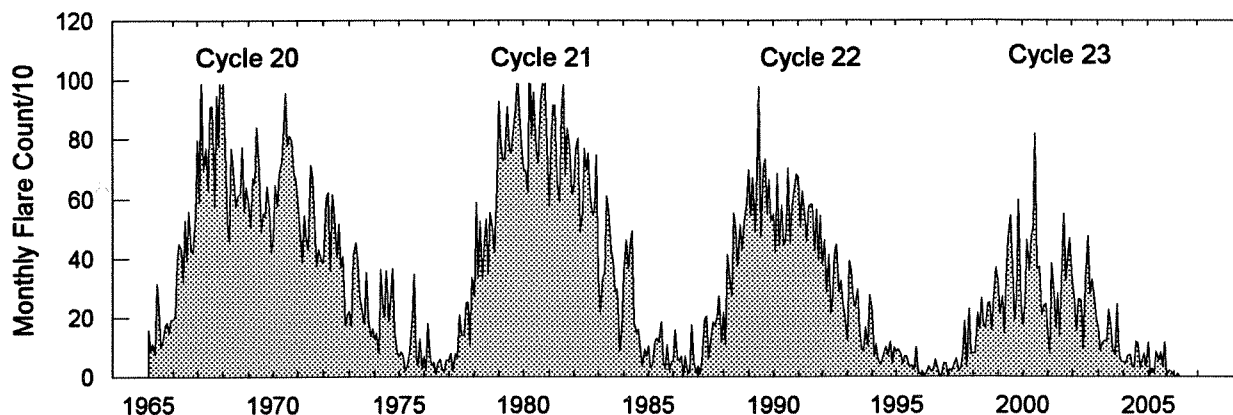
Holloman

Learmonth

San Vito

Monthly Counts of Grouped Solar Flares

Jan 1965 - Mar 2006



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	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245	78	53	1552
2004	49	47	71	72	32	33	118	112	30	54	76	34	728
2005	114	10	28	11	82	56	81	35	114	4	20	16	571
2006	4	0	11										15

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

10
Mar 06

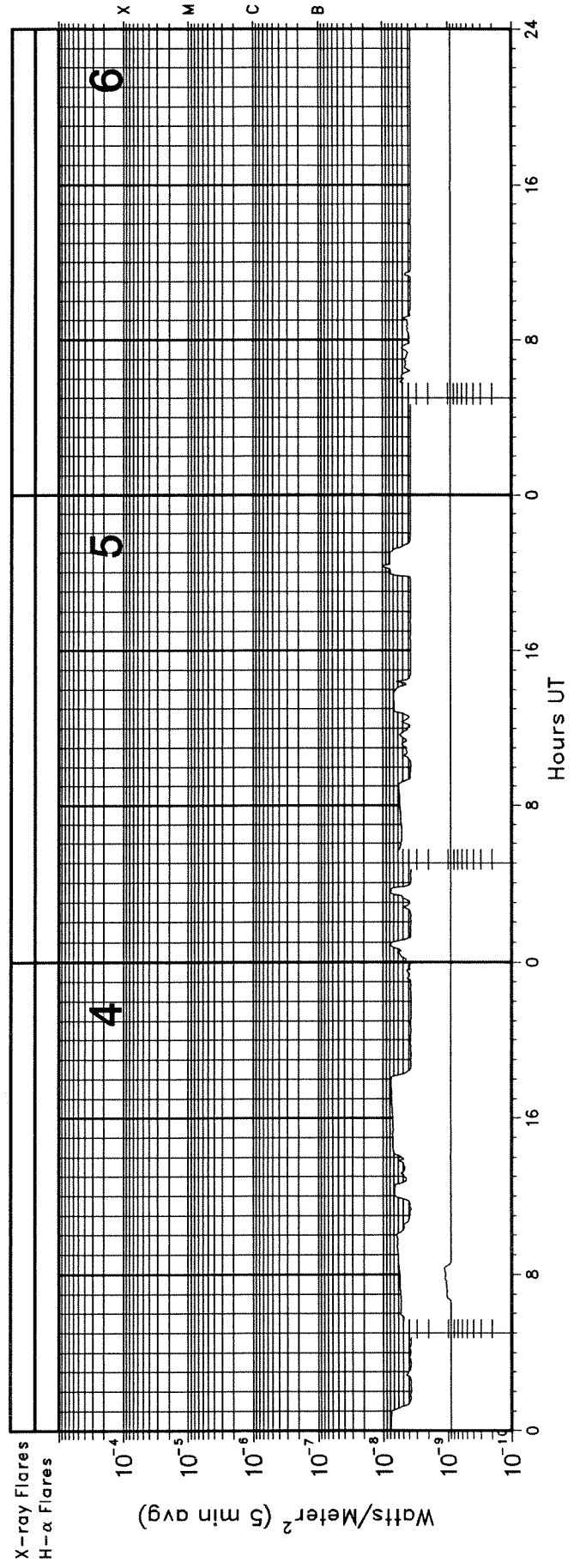
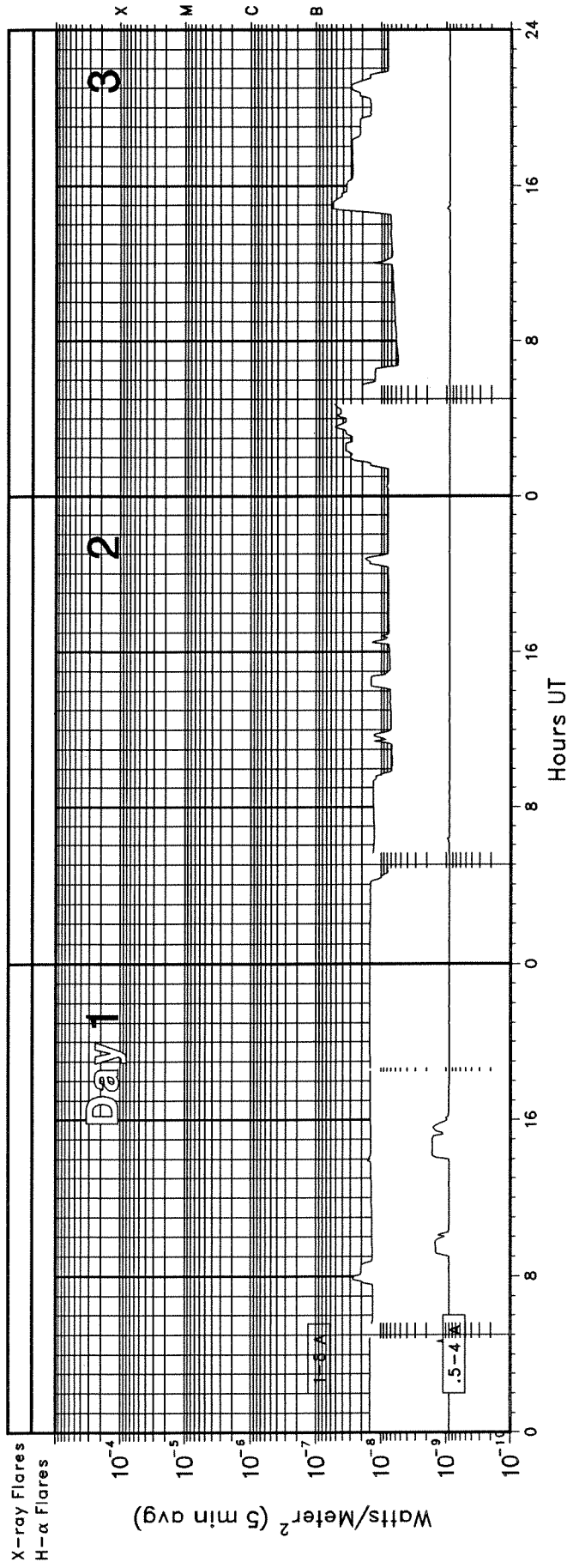
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

MARCH 2006

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	245	LEAR	8 S	0131.0	0131.0	U	54.0			QL=4 ST=2 TYP=3
		LEAR	8 S	0131.0	0131.0	U	54.0			QL=4 ST=4 TYP=3
12	127	TORN	43 NS	1100.0		140.0		3.0		V=0
	410	SGMR	43 NS	1326.0	1342.0	634.0	73.0			QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1326.0	1342.0	634.0	73.0			QL=4 ST=4 TYP=1
	410	SGMR	8 S	1326.0	1326.0	U	67.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1326.0	1326.0	U	67.0			QL=4 ST=4 TYP=3
14	33	UPIC	4 S/F	0958.2	0958.5	0.8				
15	33	UPIC	4 S/F	1029.0	1029.2	0.5				
16	33	UPIC	3 S	1159.0	1159.1	0.5				
18	33	UPIC	42 SER	0835.5	0846.0	12.0				
21	245	LEAR	8 S	0301.0	0302.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0627.0	0627.0	U	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0845.0	0845.0	U	51.0			QL=4 ST=2 TYP=3
	900	GORK	42 SER	0923.5	0925.2	21.5	16.0			
	900	GORK	42 SER	0923.5	0932.8		21.0			
	9100	GORK	46 C	0938.5	0942.0	3.5	13.0			
	9100	GORK	46 C	0938.5	0940.3		20.0			
	9100	GORK	29 PBI	0942.0	0942.0	4.8	4.4			
22	127	TORN	43 NS	1100.0		240.0		2.0		V=0
	245	LEAR	8 S	0408.0	0408.0	U	68.0			QL=4 ST=2 TYP=3
23	127	TORN	43 NS	1035.0		265.0		2.0		V=0
	15400	LEAR	8 S	0612.0	0612.0	U	88.0			QL=4 ST=2 TYP=3
25	127	TORN	43 NS	0950.0		270.0		2.0		V=0
26	127	TORN	43 NS	1030.0		190.0		2.0		V=0
	33	UPIC	4 S/F	0852.0	0852.5	0.8				
28	33	UPIC	4 S/F	0833.0	0833.5	1.0				
30	127	TORN	43 NS	1030.0		220.0		5.0		V=1
	610	PALE	8 S	1825.0	1825.0	U	94.0			QL=4 ST=2 TYP=3
31	127	TORN	43 NS	0920.0		205.0		2.0		V=0
	245	SVTO	43 NS	0921.0	0921.0	3.0	80.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0921.0	0921.0	3.0	80.0			QL=4 ST=4 TYP=1
	245	SVTO	43 NS	0921.0	0921.0	879.0	80.0			QL=4 ST=1 TYP=1
	245	SVTO	48 C	0917.0	0921.0	13.0	80.0			QL=4 ST=2 TYP=8
	33	UPIC	32 ABS	1100.0	1105.0	19.0				
	33	UPIC	45 C	1522.0	1522.8	2.0				

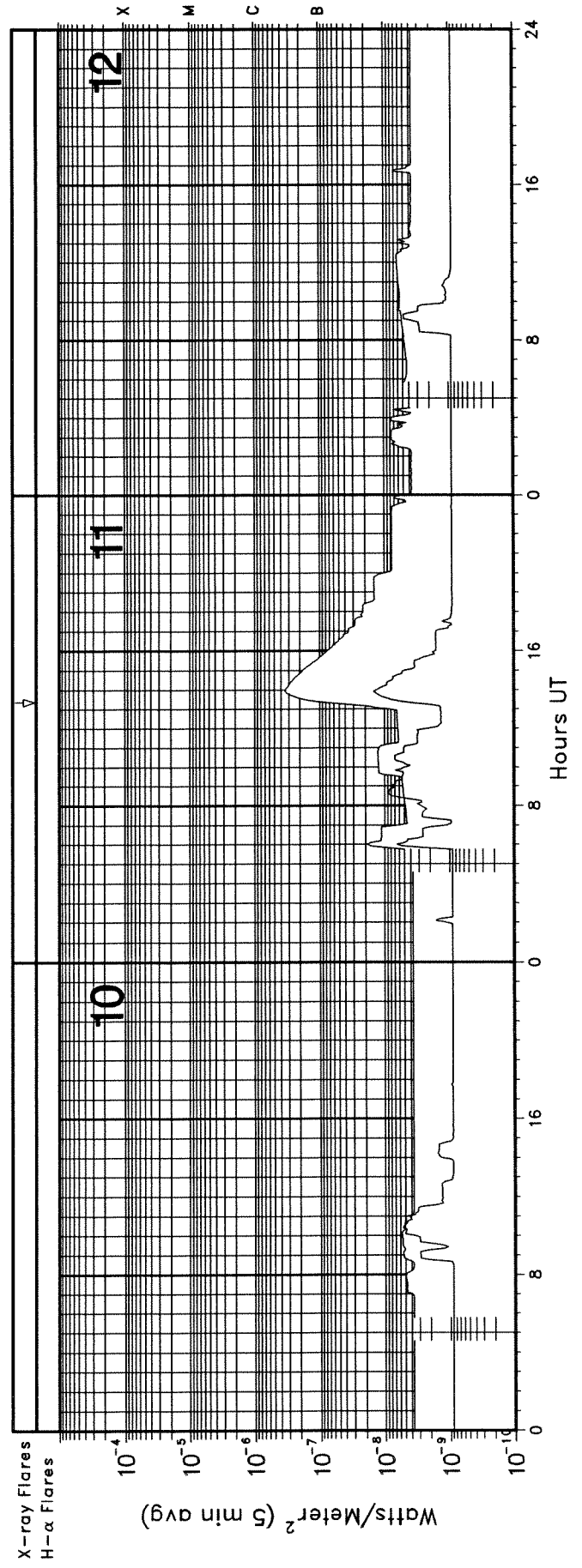
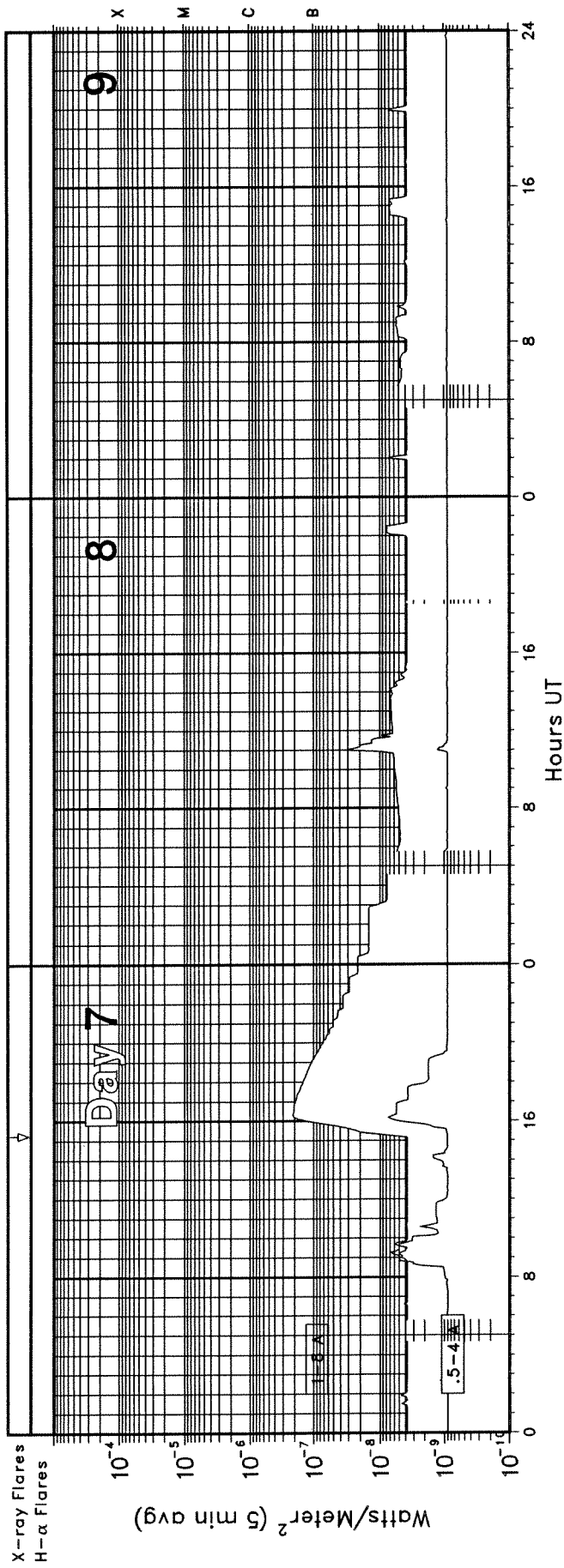
GOES X-RAY DETECTOR

March 2006



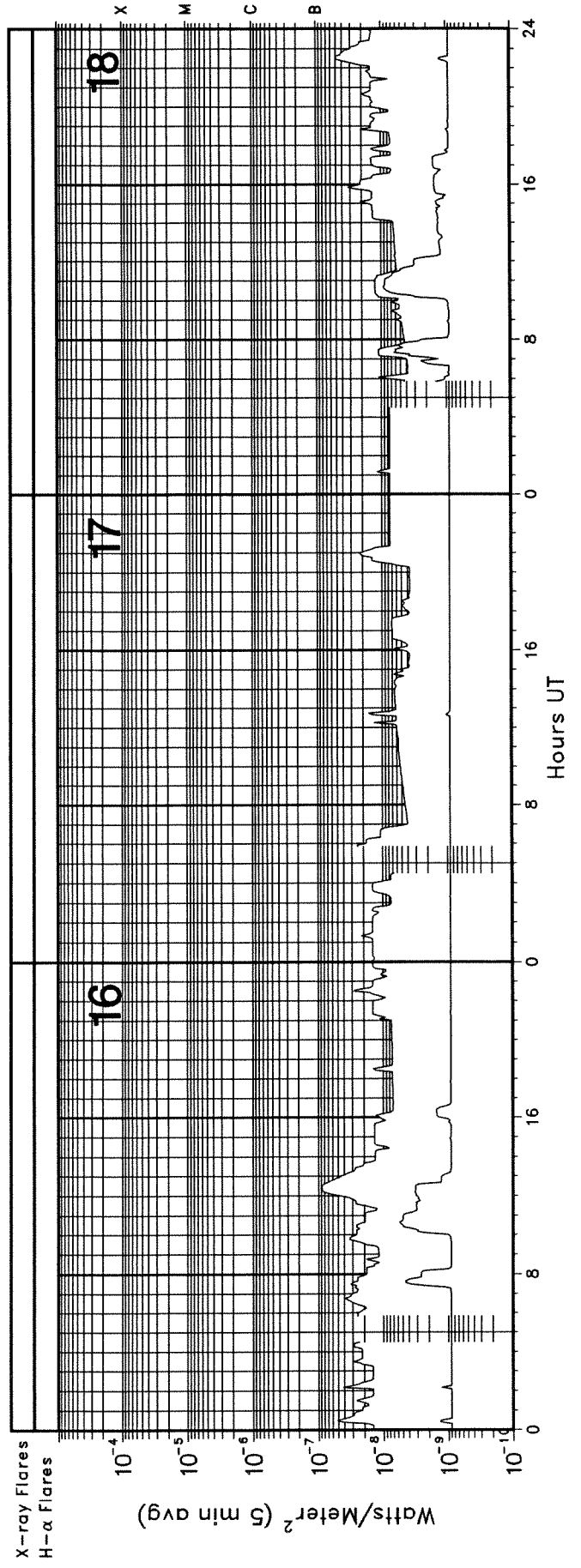
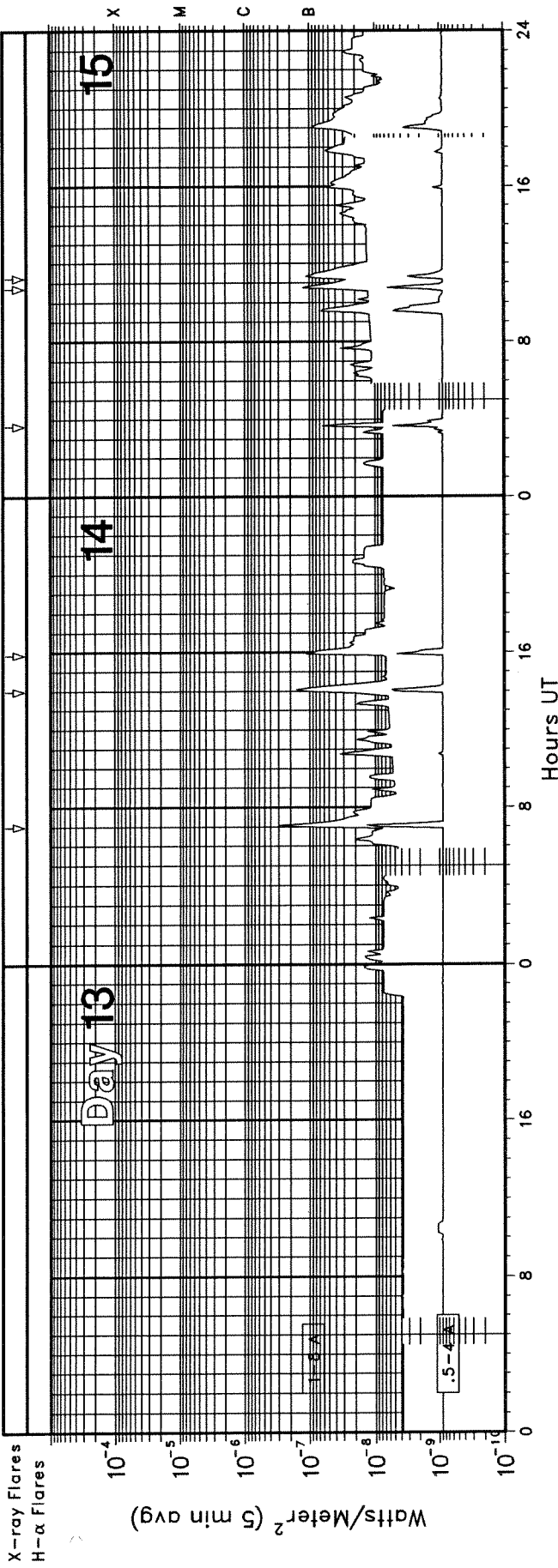
GOES X-RAY DETECTOR

March 2006



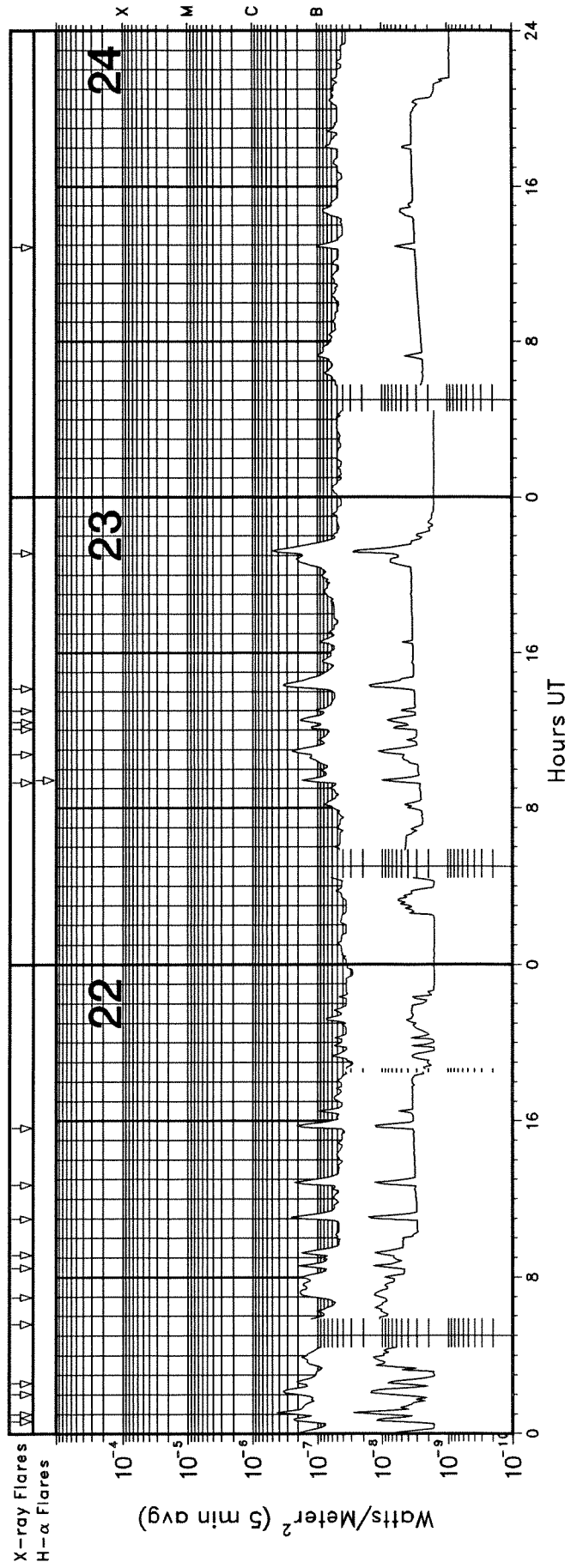
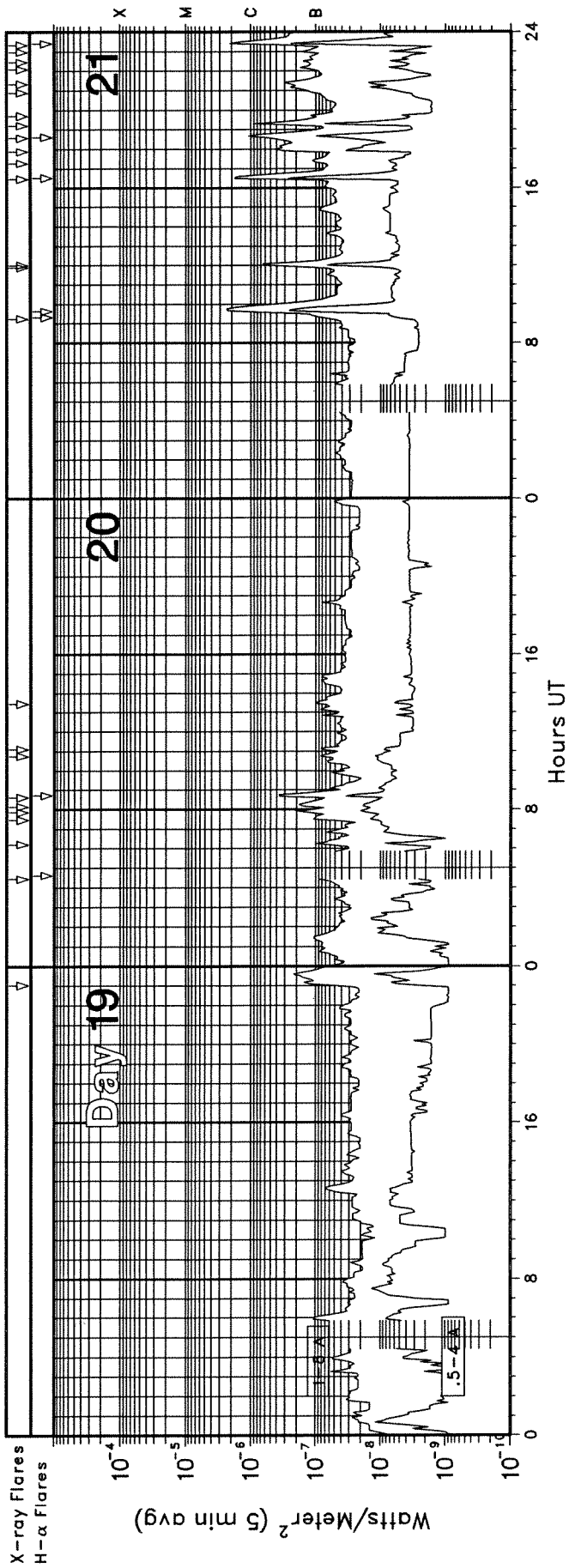
GOES X-RAY DETECTOR

March 2006



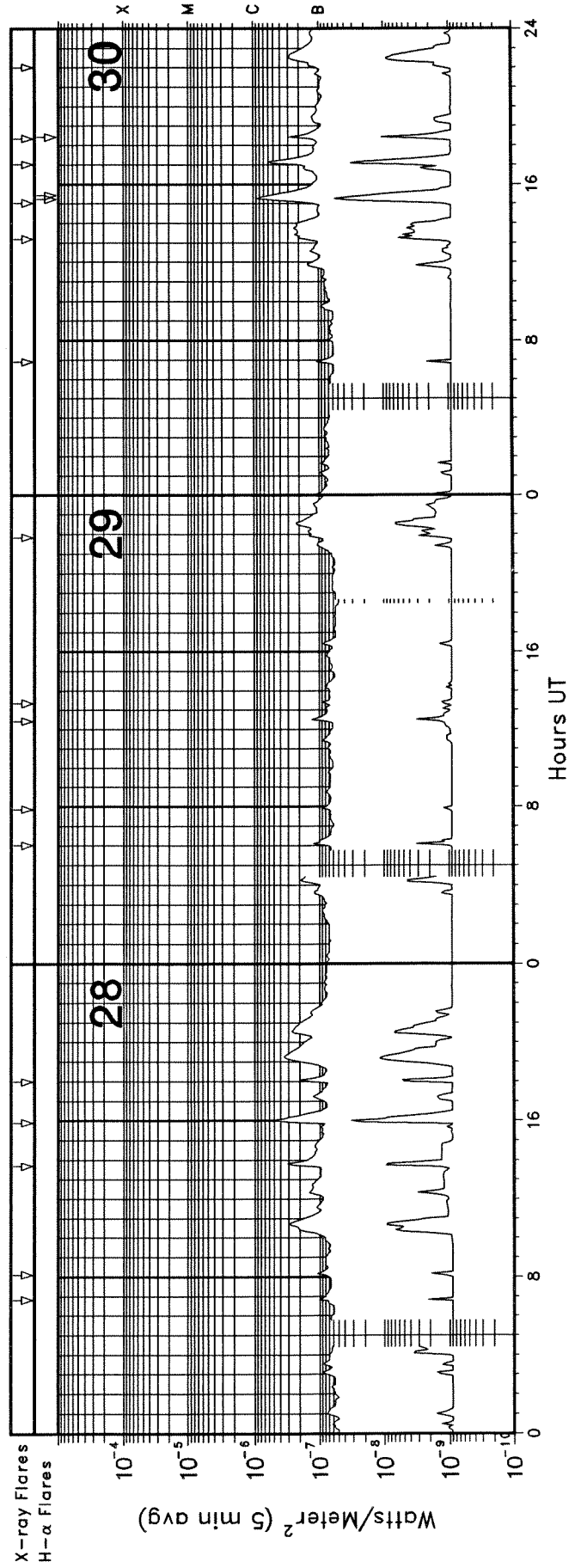
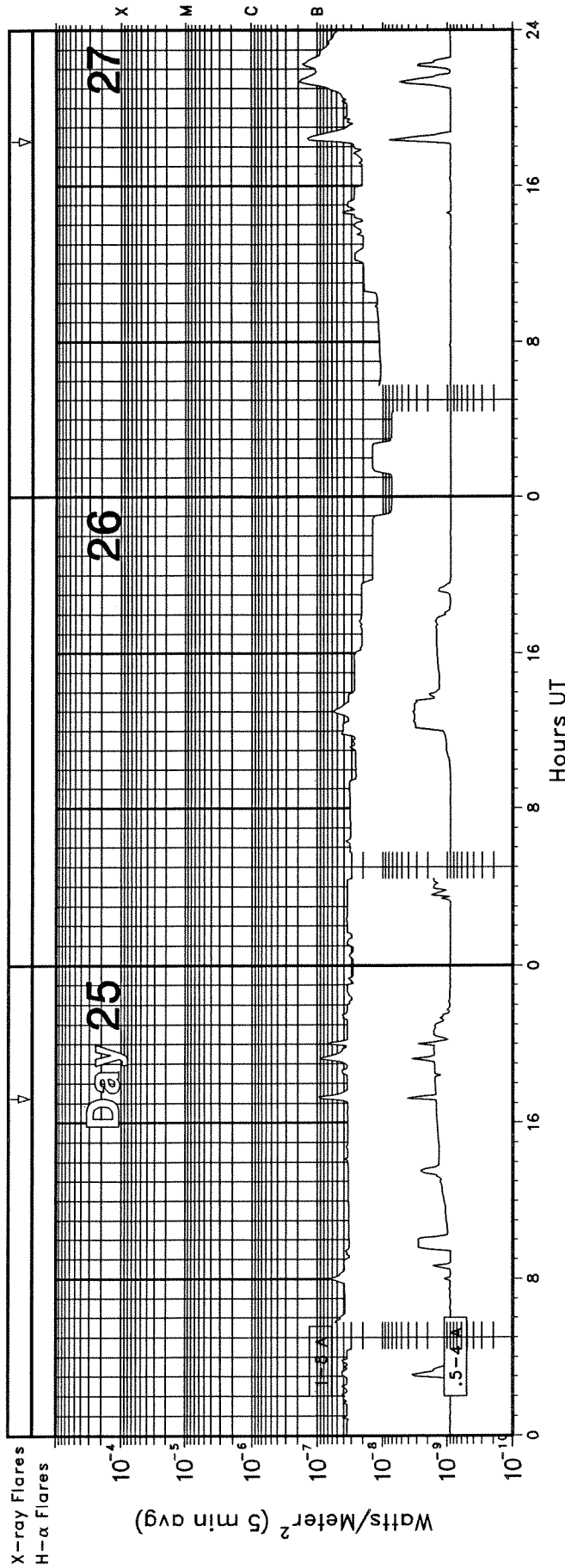
GOES X-RAY DETECTOR

March 2006



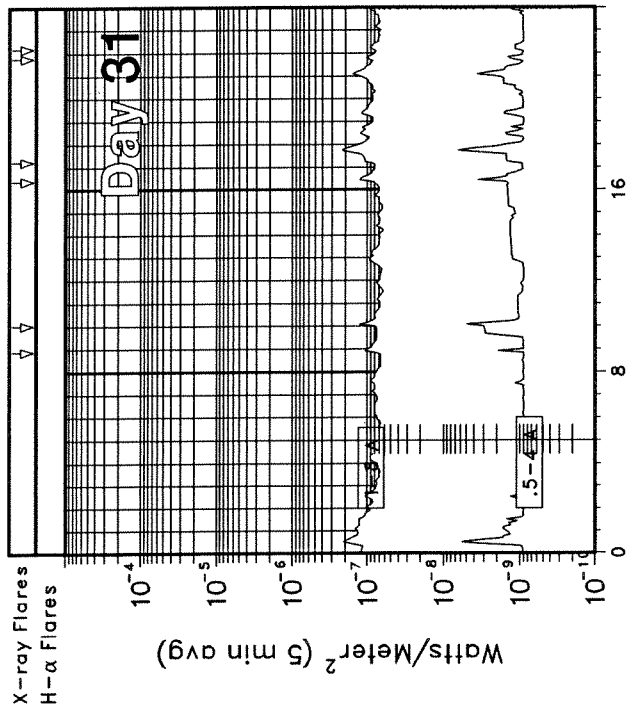
GOES X-RAY DETECTOR

March 2006



GOES X-RAY DETECTOR

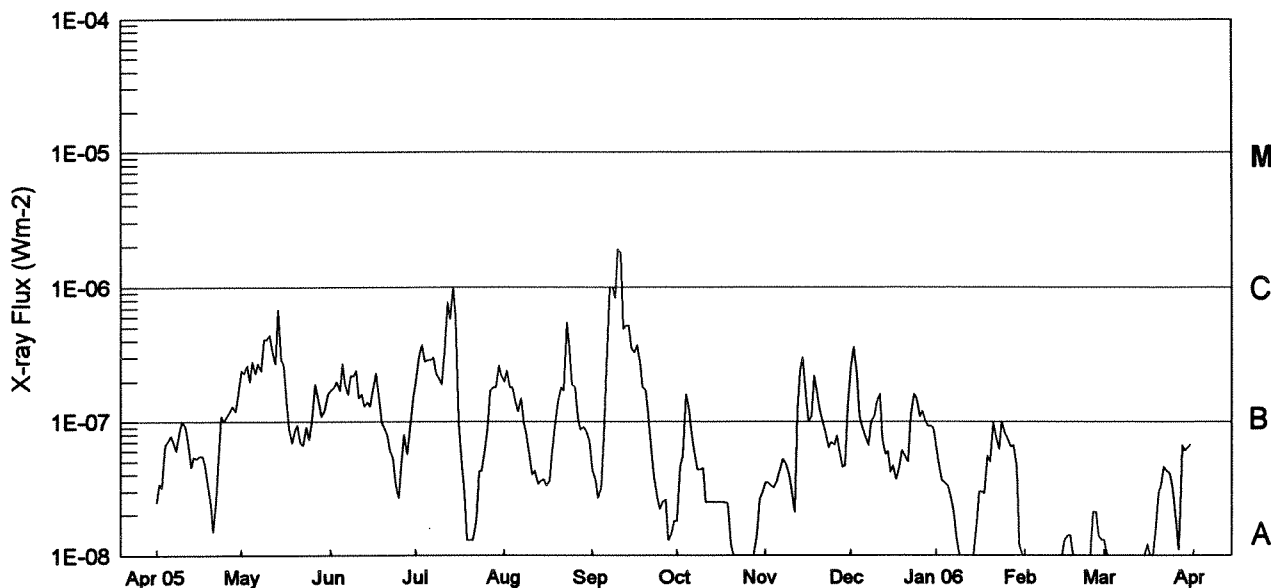
March 2006



Preliminary GOES Satellite Daily X-Ray Background

Apr 2005 - Mar 2006

17
Mar 06

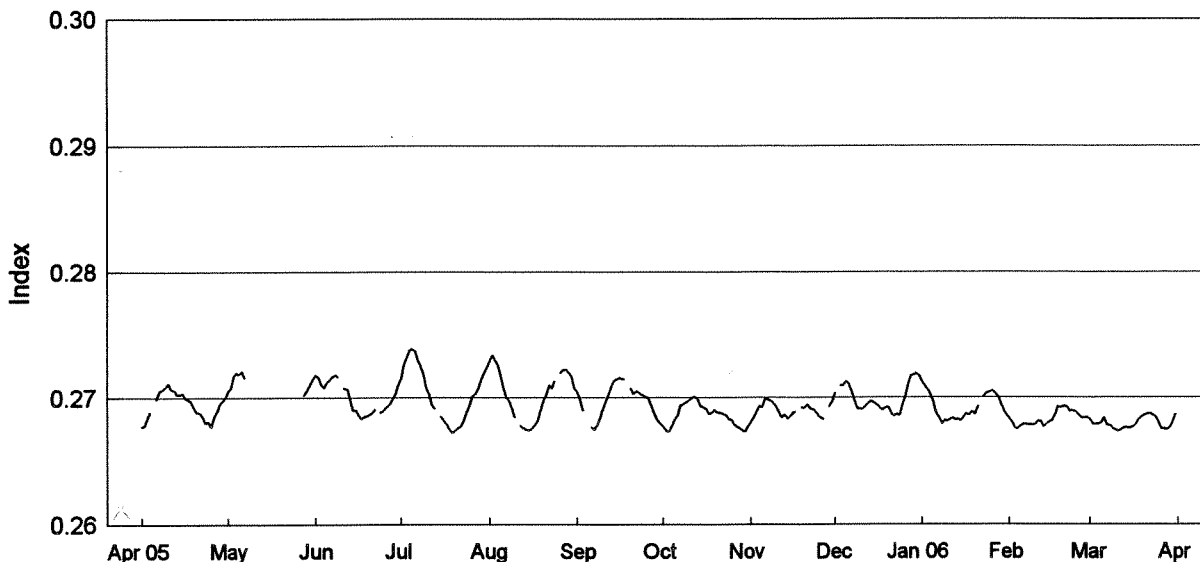


Day	Apr 05	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 06	Feb	Mar
1	A2.5	B2.4	B1.7	B2.0	B2.0	A4.4	A1.8	A3.5	B2.6	A5.8	<A1.0	A1.3
2	A3.4	B2.3	B1.8	B3.1	B2.4	A3.7	A4.6	A3.5	B3.6	A4.9	<A1.0	<A1.0
3	A3.2	B2.6	B2.0	B3.7	B1.8	A2.7	A5.5	A3.3	B2.3	A3.6	<A1.0	<A1.0
4	A6.6	B2.0	B1.7	B2.8	B1.8	A3.2	B1.6	A3.2	B1.1	A3.5	<A1.0	<A1.0
5	A7.1	B2.8	B2.7	B2.9	B1.4	A7.6	B1.3	A3.6	A8.9	A3.3	<A1.0	<A1.0
6	A7.8	B2.3	B1.9	B2.9	B1.2	B3.4	A8.0	A4.3	A7.7	A2.8	<A1.0	<A1.0
7	A6.9	B2.7	B1.6	B3.0	B1.5	C1.0	A5.9	A5.2	A6.7	A2.1	<A1.0	<A1.0
8	A6.1	B2.4	B2.2	B2.3	B1.0	C1.0	A4.4	A4.9	B1.0	A1.4	<A1.0	<A1.0
9	A8.5	B4.1	B2.2	B2.1	A8.1	B8.3	A4.4	A4.1	B1.1	<A1.0	<A1.0	<A1.0
10	B1.0	B4.1	B2.4	B1.9	A5.5	C1.9	A4.5	A3.1	B1.4	<A1.0	<A1.0	<A1.0
11	A9.2	B4.4	B1.5	B3.2	A4.0	C1.8	A2.5	A2.1	B1.6	<A1.0	<A1.0	<A1.0
12	A6.9	B3.4	B1.6	B7.8	A4.3	B4.9	A2.5	B1.2	A7.5	<A1.0	<A1.0	<A1.0
13	A4.6	B2.7	B1.3	B5.8	A3.4	B5.2	A2.5	B2.4	A5.7	<A1.0	<A1.0	<A1.0
14	A5.4	B6.8	B1.4	C1.0	A3.6	B5.2	A2.5	B3.0	A6.0	<A1.0	<A1.0	<A1.0
15	A5.3	B2.9	B1.3	B5.9	A3.7	B3.5	A2.5	B1.6	A4.2	A1.7	A1.3	<A1.0
16	A5.5	B2.7	B1.8	B1.0	A3.3	B3.3	A2.5	B1.0	A4.7	A3.0	A1.4	A1.2
17	A5.5	B1.4	B2.3	A5.4	A3.6	B3.7	A2.5	B1.1	A3.7	A3.0	A1.4	<A1.0
18	A4.8	A8.8	B1.5	A2.9	A6.1	B2.8	A2.5	B2.2	A4.4	A2.9	<A1.0	<A1.0
19	A3.5	A6.9	B1.0	A1.3	B1.0	B1.8	A2.4	B1.6	A6.1	A5.5	<A1.0	A1.5
20	A2.5	A8.4	A8.8	A1.3	B1.4	B1.7	A1.2	B1.2	A5.5	A5.0	<A1.0	A3.0
21	A1.5	A9.4	A7.8	A1.3	B1.8	B1.1	<A1.0	A9.8	A5.0	A9.8	<A1.0	A3.2
22	A2.6	A6.9	A6.1	A1.8	B1.7	A5.9	<A1.0	A8.2	B1.1	A7.8	<A1.0	A4.6
23	A5.5	A6.6	A5.3	A4.2	B5.5	A3.8	<A1.0	A6.4	B1.6	A6.2	<A1.0	A4.3
24	B1.1	A9.1	A3.4	A4.3	B3.5	A2.7	<A1.0	A7.0	B1.5	B1.0	<A1.0	A4.1
25	B1.0	A7.3	A2.7	A6.3	B1.9	A2.2	<A1.0	A6.7	B1.1	A8.2	A2.1	A3.2
26	B1.1	A9.9	A4.8	A8.9	B1.8	A2.5	<A1.0	A7.8	B1.2	A7.4	A2.1	A1.8
27	B1.2	B1.9	A8.0	B1.7	B1.1	A2.6	<A1.0	A5.7	B1.0	A6.5	A1.4	A1.1
28	B1.3	B1.5	A5.7	B1.8	A8.7	A1.3	<A1.0	A4.6	A9.3	A6.6	A1.3	A6.6
29	B1.2	B1.1	A8.6	B1.8	A9.1	A1.4	A1.4	A4.7	A9.3	A4.6		A6.1
30	B1.6	B1.2	B1.5	B2.6	A8.5	A1.8	A2.6	B1.3	A8.8	A1.2		A6.5
31		B1.6		B2.2	A7.1		A2.9		A6.5	<A1.0		A6.8

Levels below B1.0 are unreliable.

NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index

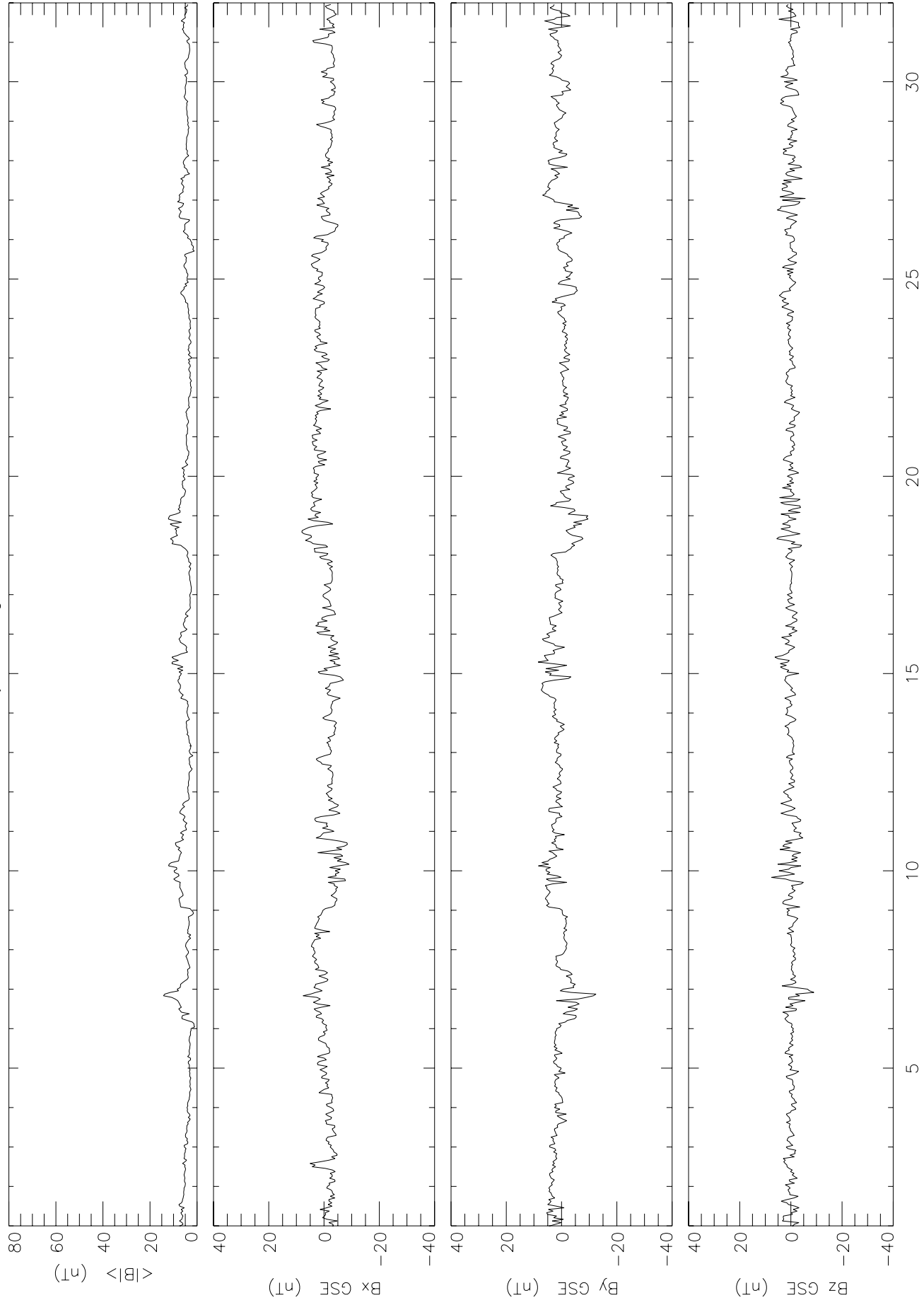
Apr 2005 - Mar 2006
Version 9.1



Day	Apr 05	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 06	Feb	Mar
1	0.2677	0.2706	0.2718	0.2715	0.2729	0.2704	0.2677	0.2680	0.2704	0.2713	0.2683	0.2683
2	0.2678	0.2707	0.2716	0.2726	0.2733	0.2699	0.2674	0.2684	—	0.2710	0.2680	0.2679
3	0.2685	0.2718	0.2710	0.2732	0.2729	0.2689	0.2673	0.2689	0.2710	0.2706	0.2676	0.2679
4	0.2689	0.2720	0.2708	0.2738	0.2725	—	0.2677	0.2694	0.2710	0.2702	0.2675	0.2679
5	—	0.2719	0.2712	0.2739	0.2717	—	0.2683	0.2692	0.2713	0.2695	0.2677	0.2680
6	0.2699	0.2721	0.2715	0.2737	0.2706	0.2676	0.2686	0.2699	0.2711	0.2687	0.2679	0.2684
7	0.2706	0.2715	0.2717	0.2730	0.2700	0.2674	0.2694	0.2699	0.2704	0.2683	0.2679	0.2678
8	0.2706	—	0.2718	0.2726	0.2698	0.2678	0.2694	0.2697	0.2697	0.2679	0.2678	0.2678
9	0.2709	—	0.2716	0.2718	0.2691	0.2684	0.2696	0.2695	0.2692	0.2682	0.2678	0.2676
10	0.2712	—	—	0.2708	0.2684	0.2690	0.2697	0.2693	0.2691	0.2681	0.2678	0.2674
11	0.2708	—	0.2708	0.2702	—	0.2697	0.2699	0.2688	0.2691	0.2683	0.2681	0.2673
12	0.2706	—	0.2707	0.2694	0.2678	0.2702	0.2701	0.2684	0.2693	0.2684	0.2681	0.2675
13	0.2703	—	0.2699	0.2691	0.2676	0.2709	0.2699	0.2686	0.2695	0.2682	0.2677	0.2676
14	0.2703	—	0.2690	—	0.2675	0.2714	0.2693	0.2683	0.2697	0.2683	0.2679	0.2676
15	0.2703	—	0.2690	0.2685	0.2674	0.2715	0.2693	0.2685	0.2696	0.2681	0.2681	0.2676
16	0.2700	—	0.2686	0.2681	0.2675	0.2716	0.2691	0.2688	0.2695	0.2684	0.2681	0.2677
17	0.2699	—	0.2683	0.2679	0.2678	0.2715	0.2687	0.2689	0.2692	0.2687	0.2686	0.2678
18	0.2697	—	0.2685	0.2674	0.2681	0.2715	0.2688	—	0.2690	0.2686	0.2693	0.2682
19	0.2692	—	0.2685	0.2672	0.2689	—	0.2690	0.2692	0.2692	0.2689	0.2693	0.2684
20	0.2689	—	0.2687	0.2674	0.2697	0.2708	0.2688	0.2692	0.2692	0.2686	0.2693	0.2686
21	0.2689	—	0.2688	0.2676	0.2702	0.2703	0.2688	0.2694	0.2687	0.2694	0.2693	0.2687
22	0.2685	—	0.2691	0.2677	0.2710	0.2705	0.2687	0.2692	0.2685	—	0.2689	0.2687
23	0.2680	—	—	0.2682	0.2707	0.2704	0.2686	0.2691	0.2687	0.2700	0.2690	0.2687
24	0.2681	—	0.2688	0.2688	0.2714	0.2702	0.2683	0.2689	0.2686	0.2704	0.2689	0.2685
25	0.2677	—	0.2690	0.2694	—	0.2701	0.2682	0.2685	0.2693	0.2704	0.2686	0.2681
26	0.2685	—	0.2692	0.2701	0.2720	0.2699	0.2679	0.2684	0.2700	0.2705	0.2684	0.2675
27	0.2689	—	0.2694	0.2702	0.2722	0.2692	0.2677	0.2683	0.2710	0.2703	0.2684	0.2675
28	0.2695	0.2702	0.2698	0.2707	0.2723	0.2686	0.2676	—	0.2717	0.2700	0.2684	0.2675
29	0.2697	0.2706	0.2702	0.2714	0.2720	0.2682	0.2674	0.2693	0.2718	0.2696		0.2676
30	0.2700	0.2710	0.2709	0.2720	0.2717	0.2679	0.2673	0.2697	0.2719	0.2690		0.2680
31		0.2715		0.2724	0.2708		0.2677		0.2717	0.2686		0.2687
Mean	0.2694	0.2712	0.2700	0.2703	0.2703	0.2698	0.2686	0.2690	0.2699	0.2692	0.2630	0.2679

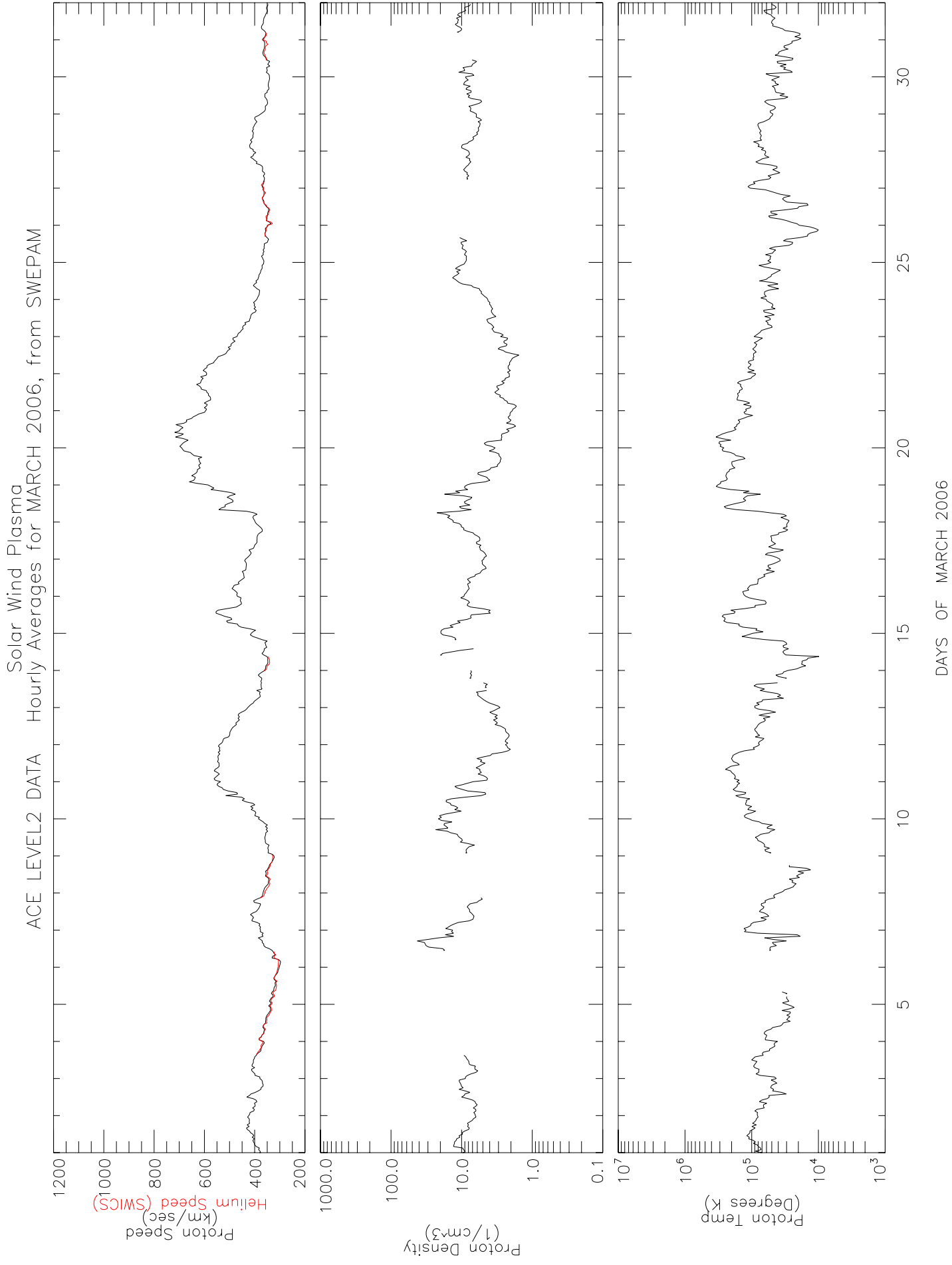
Data at: <http://www.sec.noaa.gov/ftpmenu/sbuv.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for MARCH 2006, from MAG

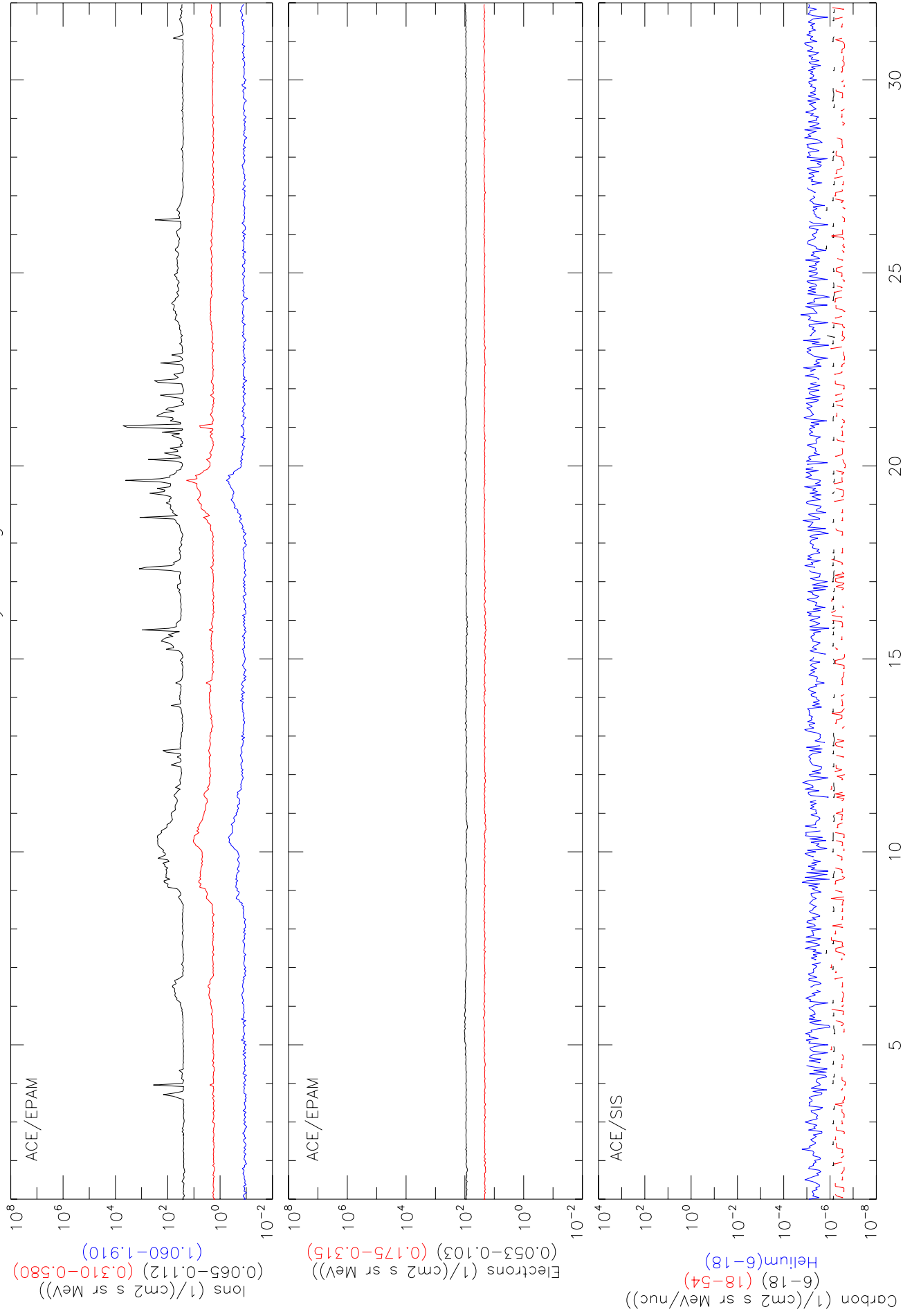


DAYS OF MARCH 2006

ACE LEVEL2 DATA Hourly Averages for MARCH 2006, from SWEPAM



Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for MARCH 2006



SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
MARCH 2006

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2006/03/01	02:05:04	299	41	275	183	367	495	9.0	296	
2006/03/02	00:05:04	105	27	51	30	70	252	2.6*	101	Poor Event; C2
2006/03/02	04:05:04	243	39	45	----	----	----	-----	244	Very Poor Event
2006/03/02	10:35:07	97	35	406	371	442	424	2.2*	96	Only C3
2006/03/03	09:05:04	248	43	377	450	302	267	-6.3*	251	Poor Event
2006/03/03	19:05:56	233	155	157	----	----	----	-----	243	Very Poor Event; Partial Halo
2006/03/05	04:05:04	139	50	169	86	254	314	4.0*	127	Poor Event
2006/03/05	13:05:05	59	22	199	103	304	315	4.0*	67	Poor Event
2006/03/06	12:05:04	53	26	143	----	----	----	-----	55	Very Poor; Only C2
2006/03/06	13:05:04	255	42	179	175	183	197	0.4*	261	Poor Event
2006/03/10	03:24:44	290	128	114	51	180	225	2.0*	296	Partial Halo
2006/03/10	10:05:04	95	16	173	----	----	----	-----	93	Very Poor Event; 3 points; Only C2
2006/03/10	15:05:04	303	35	314	84	564	476	9.3*	295	
2006/03/10	17:05:06	103	44	145	----	----	----	-----	103	Very Poor Event; 3 points; Only C2
2006/03/11	01:05:04	291	18	303	137	465	457	8.7*	285	Poor Event
2006/03/11	08:05:04	297	31	373	237	517	549	10.5*	296	
2006/03/11	14:05:05	267	95	536	527	546	541	0.6	259	
2006/03/12	02:05:04	32	22	165	----	----	----	-----	32	Very Poor Event; 3 points; Only C2
2006/03/12	04:05:04	254	37	224	201	249	257	1.1*	252	Poor Event
2006/03/12	11:05:04	251	33	352	265	442	412	4.4*	251	Poor Event
2006/03/16	16:48:04	258	47	65	----	----	----	-----	259	Very Poor; Only C2
2006/03/17	03:12:04	246	28	302	----	----	----	-----	244	Very Poor; Only C2
2006/03/17	09:00:05	115	36	646	410	912	844	22.6*	114	
2006/03/17	20:01:02	114	28	158	150	166	232	1.4*	113	Poor Event
2006/03/18	06:01:03	349	57	278	307	246	177	-2.6*	349	Poor Event
2006/03/18	23:54:33	292	28	277	----	----	----	-----	291	Very Poor Event
2006/03/19	06:30:18	100	29	267	252	282	341	2.2*	95	Poor Event
2006/03/19	15:30:18	296	22	435	----	----	----	-----	288	Very Poor Event
2006/03/20	04:54:31	113	13	245	----	----	----	-----	111	Very Poor; Only C2
2006/03/20	07:54:47	113	16	385	----	----	----	-----	112	Very Poor Event
2006/03/20	17:06:17	235	67	317	103	524	477	9.3*	236	
2006/03/21	03:06:20	26	68	306	209	410	400	5.2*	45	
2006/03/21	11:30:20	235	25	401	----	----	----	-----	236	Very Poor Event
2006/03/22	19:31:59	101	94	309	170	438	485	8.6	98	
2006/03/23	04:26:04	240	18	241	----	----	----	-----	241	Very Poor Event
2006/03/23	06:50:04	101	29	327	288	366	371	2.3	90	
2006/03/24	15:05:25	88	12	209	----	----	----	-----	84	Very Poor Event

SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
MARCH 2006

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2006/03/25	01:50:05	81	30	259	----	----	----	-----	80	Very Poor Event
2006/03/26	04:06:04	243	23	35	----	----	----	-----	247	Very Poor;OnlyC2
2006/03/26	12:26:04	81	37	384	445	322	303	-4.4*	89	
2006/03/26	23:26:04	89	82	470	547	395	255	-9.8*	71	
2006/03/27	02:50:04	93	65	336	275	403	613	12.7*	91	
2006/03/27	05:06:04	109	39	302	197	410	379	4.4	106	
2006/03/27	07:27:13	98	52	152	0	354	333	4.8*	100	
2006/03/27	20:26:04	302	76	418	102	728	710	20.4	305	
2006/03/30	13:27:14	121	13	116	----	----	----	-----	119	Very Poor;OnlyC2
2006/03/31	00:26:05	279	44	282	285	279	270	-0.4*	270	Poor Event

=====

CME heights are measured at the fastest segment of the leading edge

PA= Position Angle measured from Solar North in degrees (Counter clockwise)

ONLINE -- Click on date to view java script movies -- <http://cdaw.gsfc.nasa.gov/>

ONLINE -- Click on time to see height-time digital files

ONLINE -- Click on speed to view height-time plot

Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.