

JULY 2006 NUMBER 743 - Part II



Solar-Geophysical Data comprehensive reports

Data for January 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**

NGDC On-Line Addresses:

World-Wide Web <http://www.ngdc.noaa.gov>
Anonymous FTP: <ftp.ngdc.noaa.gov>

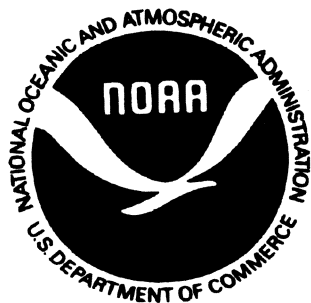
noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



U.S. DEPARTMENT OF COMMERCE

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JULY 2006 NUMBER 743 - Part II

Solar-Geophysical Data comprehensive reports

Data for January 2006 and Late Data

International Standard Serial Number: 0038-0911

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

NATIONAL GEOPHYSICAL DATA CENTER

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Boulder, Colorado

Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 743
(Issued in Two Parts)

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ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES	
-- MONTHLY PLOTS	

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	NOV 05	DEC	JAN 06	FEB	MAR	APR	MAY	JUN
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A.7k	Coronal Index (Slovak Academy)	1939-1996 -644B 28							
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A.10h	Nobeyama Radioheliograph -17 GHz	737A 74	738A 79	739A 67	740A 68	741A 73	742A 70	743A 71	
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The entry "737A 44" under Nov, for example, means that the sunspot drawings for Nov appear in SOLAR-GEOPHYSICAL DATA No. 737 Part I, and that they begin on page 44 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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Number 743 Part II

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H α SOLAR FLARES

JANUARY 2006

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region									(10-6 Disk)	Corr (Sq Deg)	
			01 0559		0617	No	Flare	Patrol											
			01 0708		0727	No	Flare	Patrol											
			01 0749		0804	No	Flare	Patrol											
			01 0827		1010	No	Flare	Patrol											
			01 1015		1605	No	Flare	Patrol											
			01 2311		2400	No	Flare	Patrol											
			02 0000		0219	No	Flare	Patrol											
			02 0225		0254	No	Flare	Patrol											
			02 0258		0425	No	Flare	Patrol											
			02 0940		0943	No	Flare	Patrol											
			02 1633		1643	No	Flare	Patrol											
			02 1736		1822	No	Flare	Patrol											
			03 0040		0135	No	Flare	Patrol											
			03 0405		0437	No	Flare	Patrol											
			03 0553		0706	No	Flare	Patrol											
			03 0720		0801	No	Flare	Patrol											
			03 1101		1349	No	Flare	Patrol											
			03 1353		1420	No	Flare	Patrol											
			03 1440		1621	No	Flare	Patrol											
			03 1645		1736	No	Flare	Patrol											
			03 1746		2038	No	Flare	Patrol											
			03 2113		2226	No	Flare	Patrol											
			03 2254		2301	No	Flare	Patrol											
			04 0053		0322	No	Flare	Patrol											
			04 1127		1140	No	Flare	Patrol											
			04 1155		1221	No	Flare	Patrol											
			04 1241		1251	No	Flare	Patrol											
			04 1256		1304	No	Flare	Patrol											
			04 1441		1529	No	Flare	Patrol											
			04 2114		2237	No	Flare	Patrol											
0001	LEAR	05	0921	0921	0931	N14	W57	10843	01	1.1	10	SF		3	E		56		EF
			05 1133		1421	No	Flare	Patrol											
			05 1601		1759	No	Flare	Patrol											
			06 0003		0106	No	Flare	Patrol											
			07 1102		1152	No	Flare	Patrol											
			07 2125		2144	No	Flare	Patrol											
			07 2206		2221	No	Flare	Patrol											
			08 0006		0012	No	Flare	Patrol											
			08 0317		0323	No	Flare	Patrol											
			08 0332		0419	No	Flare	Patrol											
			08 0431		0708	No	Flare	Patrol											
			08 0810		1005	No	Flare	Patrol											
			08 1209		1213	No	Flare	Patrol											
			08 1444		1459	No	Flare	Patrol											
			09 0110		0130	No	Flare	Patrol											
			09 0150		0710	No	Flare	Patrol											
			10 0006		0741	No	Flare	Patrol											
			10 0746		0757	No	Flare	Patrol											
			10 1402		1420	No	Flare	Patrol											
			11 0152		0330	No	Flare	Patrol											
			11 1155		1200	No	Flare	Patrol											
			11 1222		1223	No	Flare	Patrol											
			11 1355		1421	No	Flare	Patrol											
			11 2215		2300	No	Flare	Patrol											
			12 0731		0733	No	Flare	Patrol											
			12 1553		1611	No	Flare	Patrol											
			12 1628		1729	No	Flare	Patrol											
			14 1406		1414	No	Flare	Patrol											
			14 1432		1809	No	Flare	Patrol											
			14 1821		2242	No	Flare	Patrol											
			14 2314		2323	No	Flare	Patrol											
			15 0006		0109	No	Flare	Patrol											
			15 1406		1410	No	Flare	Patrol											
			15 1412		1418	No	Flare	Patrol											
			15 1428		1432	No	Flare	Patrol											
			15 1436		1453	No	Flare	Patrol											
			16 1143		1207	No	Flare	Patrol											
			16 1418		1421	No	Flare	Patrol											

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								USAF Region	CMP Mo Day							Apparent (10-6 Disk)	Corr (Sq Deg)	
			16 1727		1735	No	Flare Patrol											
			16 1759		1944	No	Flare Patrol											
			17 0354		0356	No	Flare Patrol											
			17 0540		0545	No	Flare Patrol											
			17 1305		1316	No	Flare Patrol											
			17 1332		1349	No	Flare Patrol											
			18 0013		0128	No	Flare Patrol											
			18 0150		0209	No	Flare Patrol											
			18 0407		0416	No	Flare Patrol											
			18 0618		0651	No	Flare Patrol											
			18 0805		0816	No	Flare Patrol											
			18 1153		1207	No	Flare Patrol											
			18 1219		1308	No	Flare Patrol											
			18 1349		1350	No	Flare Patrol											
			18 1352		1353	No	Flare Patrol											
			18 1355		1356	No	Flare Patrol											
			18 1858		2029	No	Flare Patrol											
			18 2034		2227	No	Flare Patrol											
			18 2233		2400	No	Flare Patrol											
			19 0000		0315	No	Flare Patrol											
			19 0335		0343	No	Flare Patrol											
			19 0414		0428	No	Flare Patrol											
			19 0656		0756	No	Flare Patrol											
			19 1525		1759	No	Flare Patrol											
			19 1913		2125	No	Flare Patrol											
			19 2129		2400	No	Flare Patrol											
			20 0000		0208	No	Flare Patrol											
			20 0217		0236	No	Flare Patrol											
			20 0527		0531	No	Flare Patrol											
			20 0549		0708	No	Flare Patrol											
			21 0015		0144	No	Flare Patrol											
			21 0150		0204	No	Flare Patrol											
			21 0303		0344	No	Flare Patrol											
			21 0406		0443	No	Flare Patrol											
			21 0448		0718	No	Flare Patrol											
			21 0724		0741	No	Flare Patrol											
			21 0746		0759	No	Flare Patrol											
			21 0804		0805	No	Flare Patrol											
			21 1242		1244	No	Flare Patrol											

6
Jan 06

H α SOLAR FLARES

JANUARY 2006

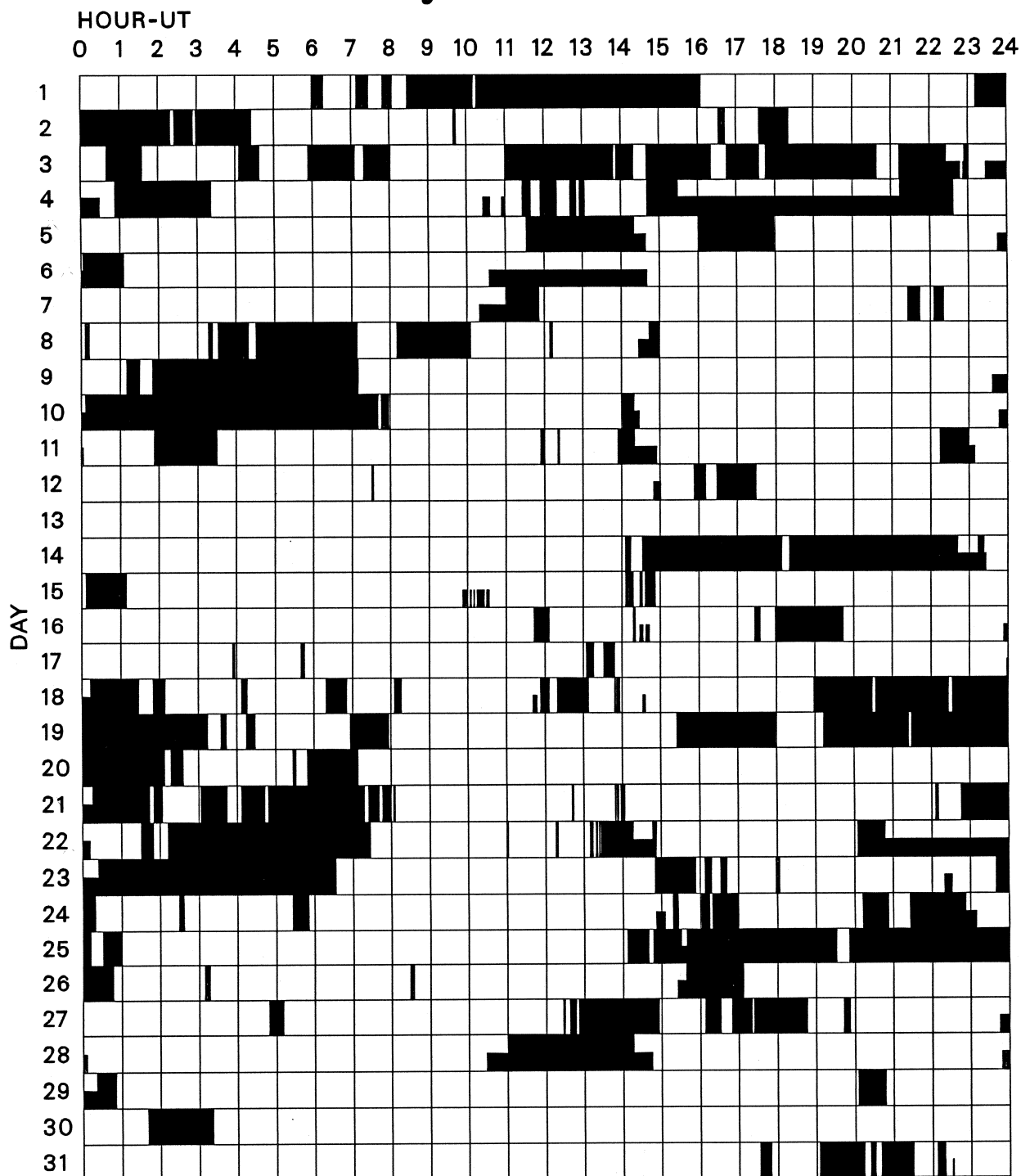
Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			24 0525		0551			No Flare Patrol											
0004	LEAR	24	0718	0718	0723	S19	W30	10848	01	22.0	5	SF		3	E		11		EH
			24 1518		1526			No Flare Patrol											
			24 1602		1615			No Flare Patrol											
			24 1619		1659			No Flare Patrol											
			24 2013		2053			No Flare Patrol											
			24 2126		2253			No Flare Patrol											
			24 2400		2400			No Flare Patrol											
			25 0000		0012			No Flare Patrol											
			25 0031		0059			No Flare Patrol											
			25 1407		1440			No Flare Patrol											
			25 1447		1531			No Flare Patrol											
			25 1539		1932			No Flare Patrol											
			25 1951		2400			No Flare Patrol											
			26 0000		0047			No Flare Patrol											
			26 0309		0316			No Flare Patrol											
			26 0829		0830			No Flare Patrol											
			26 0832		0834			No Flare Patrol											
			26 1538		1707			No Flare Patrol											
			27 0449		0511			No Flare Patrol											
			27 1227		1229			No Flare Patrol											
			27 1237		1247			No Flare Patrol											
			27 1251		1456			No Flare Patrol											
			27 1608		1632			No Flare Patrol											
			27 1649		1720			No Flare Patrol											
			27 1724		1846			No Flare Patrol											
			27 1943		1952			No Flare Patrol											
			28 1101		1417			No Flare Patrol											
			29 0021		0051			No Flare Patrol											
			29 2005		2048			No Flare Patrol											
			30 0140		0321			No Flare Patrol											
			31 1733		1750			No Flare Patrol											
			31 1905		2014			No Flare Patrol											
			31 2024		2031			No Flare Patrol											
			31 2040		2130			No Flare Patrol											
			31 2208		2219			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****JANUARY 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.

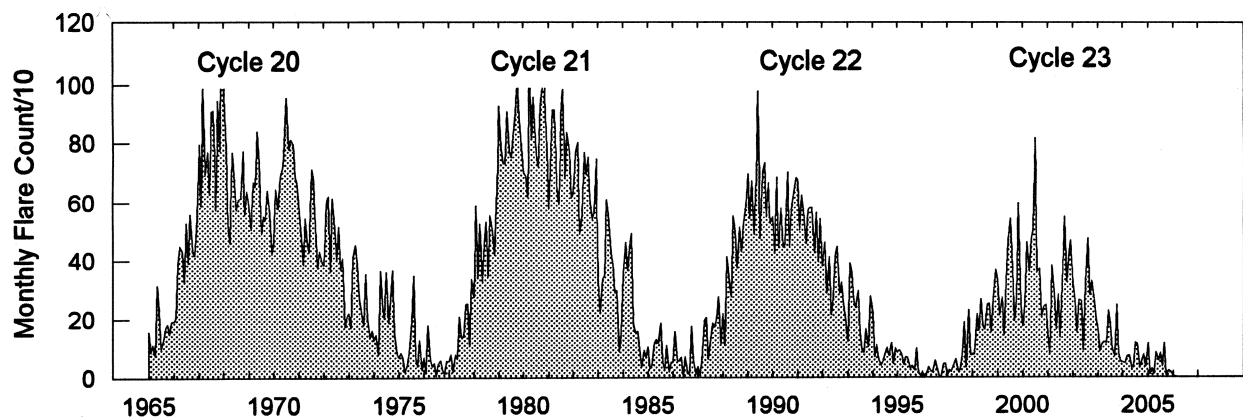
Holloman
Kanzelhoehe

Learmonth

San Vito

Monthly Counts of Grouped Solar Flares

Jan 1965 - Jan 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												4

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

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

Outstanding Occurrences

9
Jan 06

JANUARY 2006

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
01	33 UPIC	8 S	1421.3	1421.5	0.7				
02	15400 SGMR	8 S	1944.0	1945.0	2.0	29.0			QL=4 ST=2 TYP=3
03	127 TORN	49 GB	0919.3	0924.4	11.0	920.0	260.0		
	245 SGMR	8 S	1514.0	1514.0	U	59.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1536.0	1536.0	U	88.0			QL=4 ST=2 TYP=3
05	127 TORN	43 NS	0950.0		225.0		2.0		V=0
	2950 GORK	4 S/F	0919.7	0920.5	8.3	82.0			
	9100 GORK	4 S/F	0919.7	0920.6	1.7	43.0			
	2695 LEAR	8 S	0920.0	0920.0	1.0	69.0			QL=4 ST=2 TYP=3
	4995 LEAR	8 S	0920.0	0920.0	1.0	92.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0920.0	0920.0	1.0	71.0			QL=4 ST=2 TYP=3
	4995 SVTO	8 S	0920.0	0920.0	1.0	94.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	0920.0	0920.0	U	38.0			QL=4 ST=2 TYP=3
	245 SVTO	4 S/F	0920.0	0922.0	3.0	110.0			QL=4 ST=2 TYP=3
	900 GORK	28 PRE	0920.2	0920.5	0.8	12.0			
	33 UPIC	46 C	0920.5	0921.0	3.0				
	610 SVTO	8 S	0921.0	0921.0	U	58.0			QL=2 ST=2 TYP=3
	900 GORK	4 S/F	0921.0	0921.6	4.0	184.0			
	9100 GORK	29 PBI	0921.4	0921.4	5.1	12.0			
	245 LEAR	8 S	0922.0	0923.0	1.0	86.0			QL=4 ST=2 TYP=3
07	245 LEAR	8 S	0603.0	0603.0	U	60.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0644.0	0644.0	U	52.0			QL=4 ST=2 TYP=3
10	245 LEAR	4 S/F	0554.0	0555.0	3.0	51.0			QL=2 ST=2 TYP=3
	8800 SGMR	49 GB	1255.0	1256.0	1.0	1800.0			QL=4 ST=2 TYP=6
20	127 TORN	43 NS	0840.0		340.0		2.0		V=1
21	245 LEAR	8 S	0444.0	0444.0	U	67.0			QL=4 ST=2 TYP=3
22	8800 SGMR	8 S	2010.0	2010.0	U	21.0			QL=4 ST=2 TYP=3
23	127 TORN	44 NS	1100.0E		200.0D		2.0		V=0
24	245 LEAR	49 GB	0401.0	0401.0	1.0	800.0			QL=4 ST=2 TYP=6
	9100 GORK	40 F	0849.3	0850.6	2.3	30.0			
25	127 TORN	43 NS	1200.0		150.0		2.0		V=1
29	127 TORN	43 NS	1300.0		90.0		3.0		V=0

Reports are received routinely from the following observatories:

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

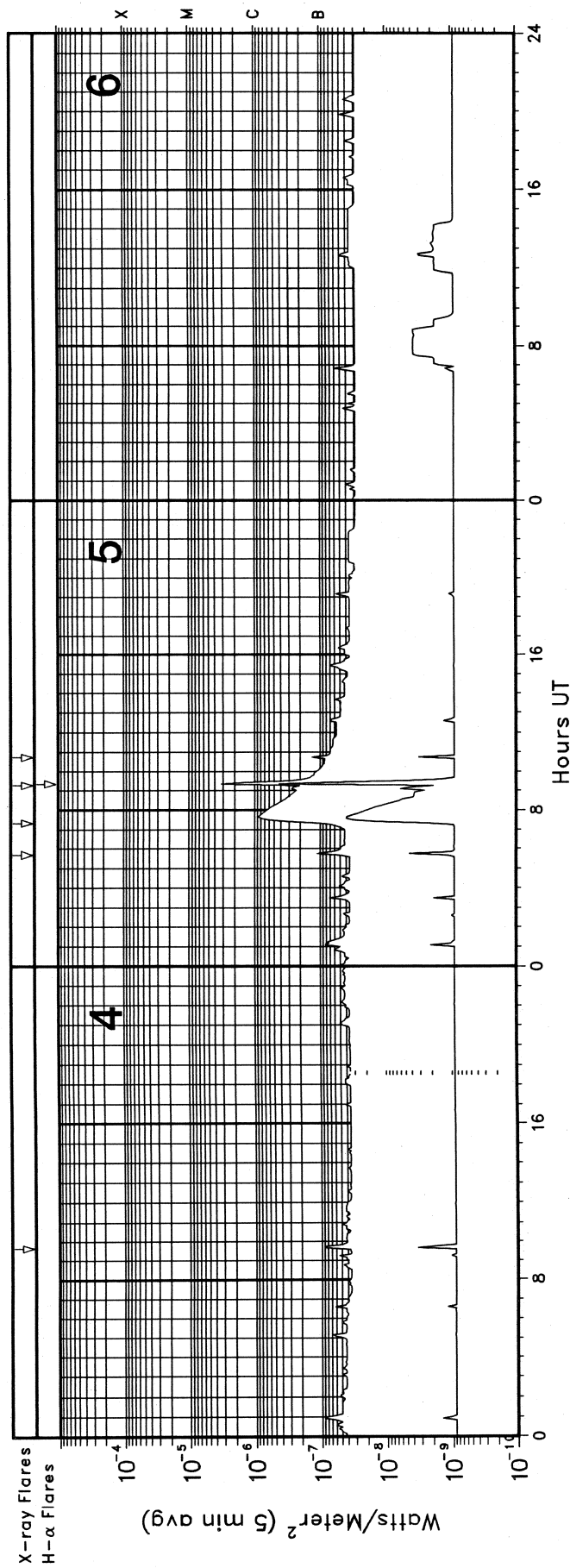
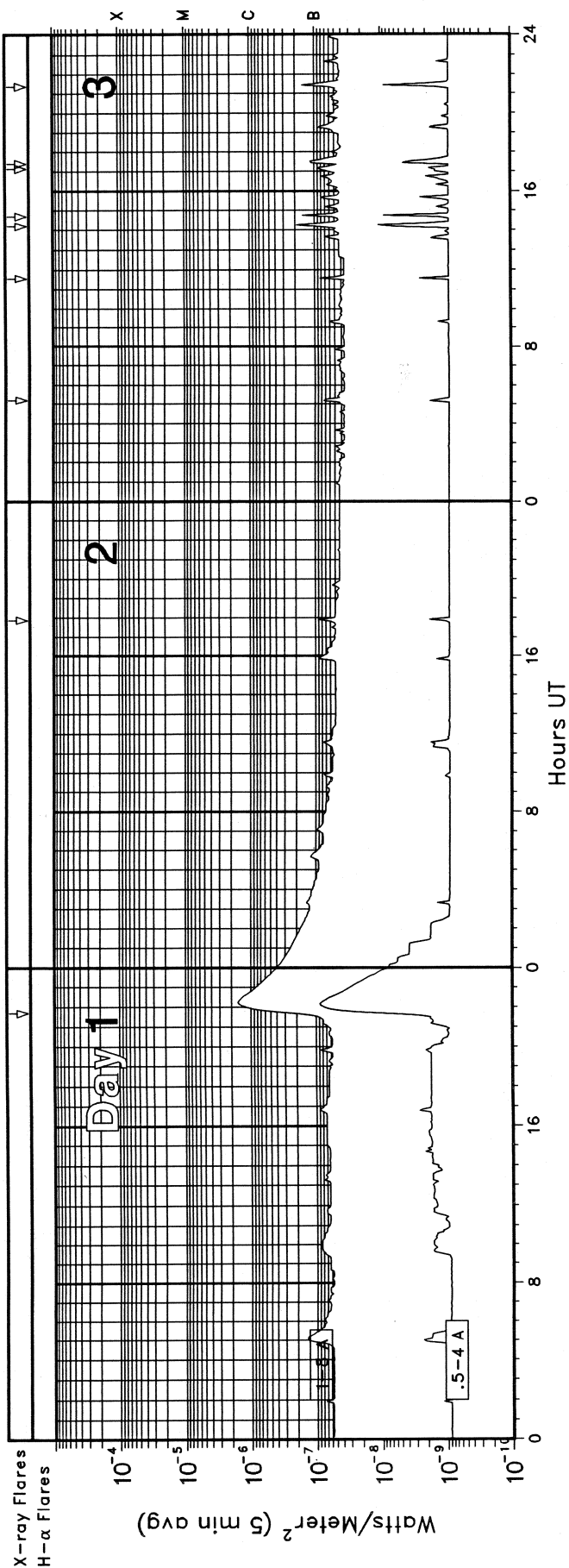
Explanation of Type Code:

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

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

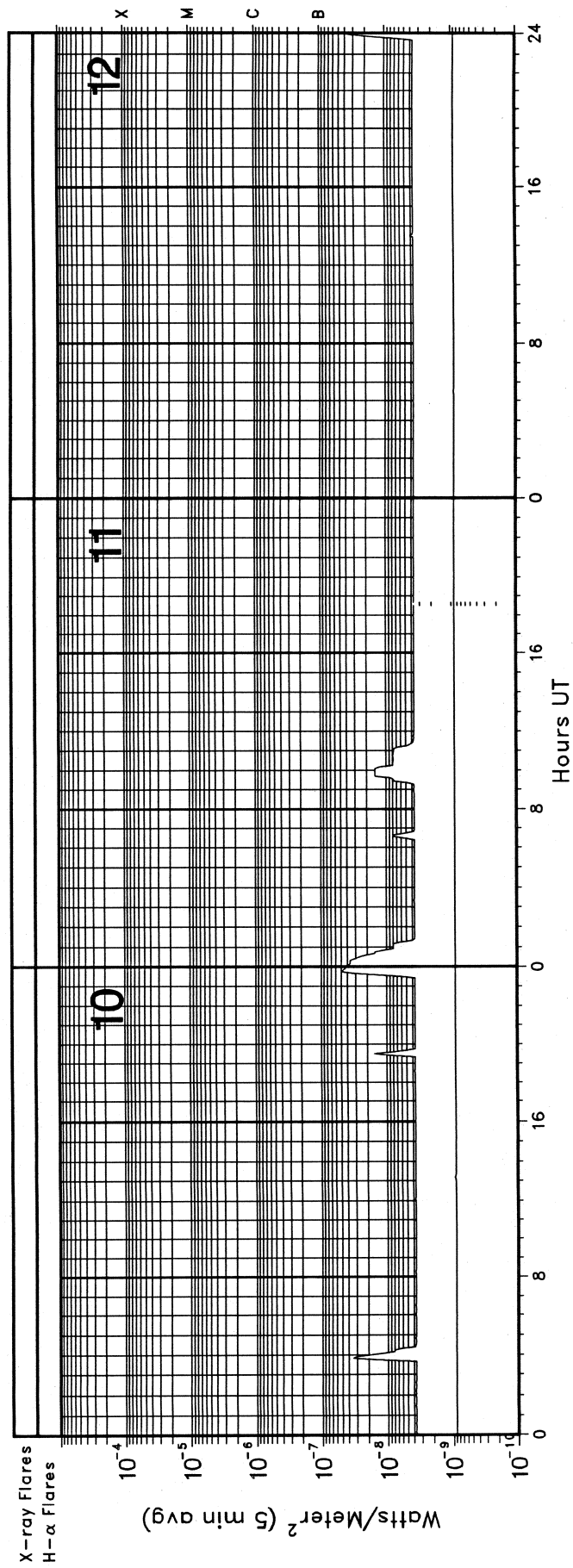
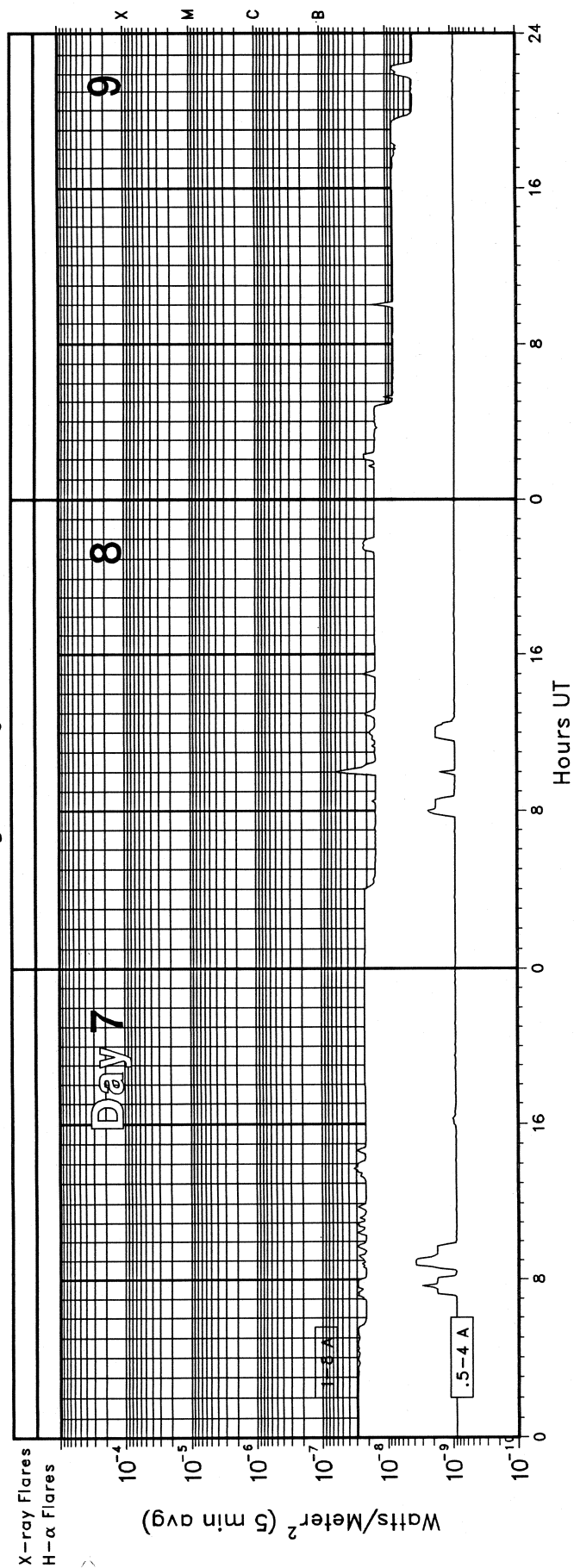
GOES X-RAY DETECTOR

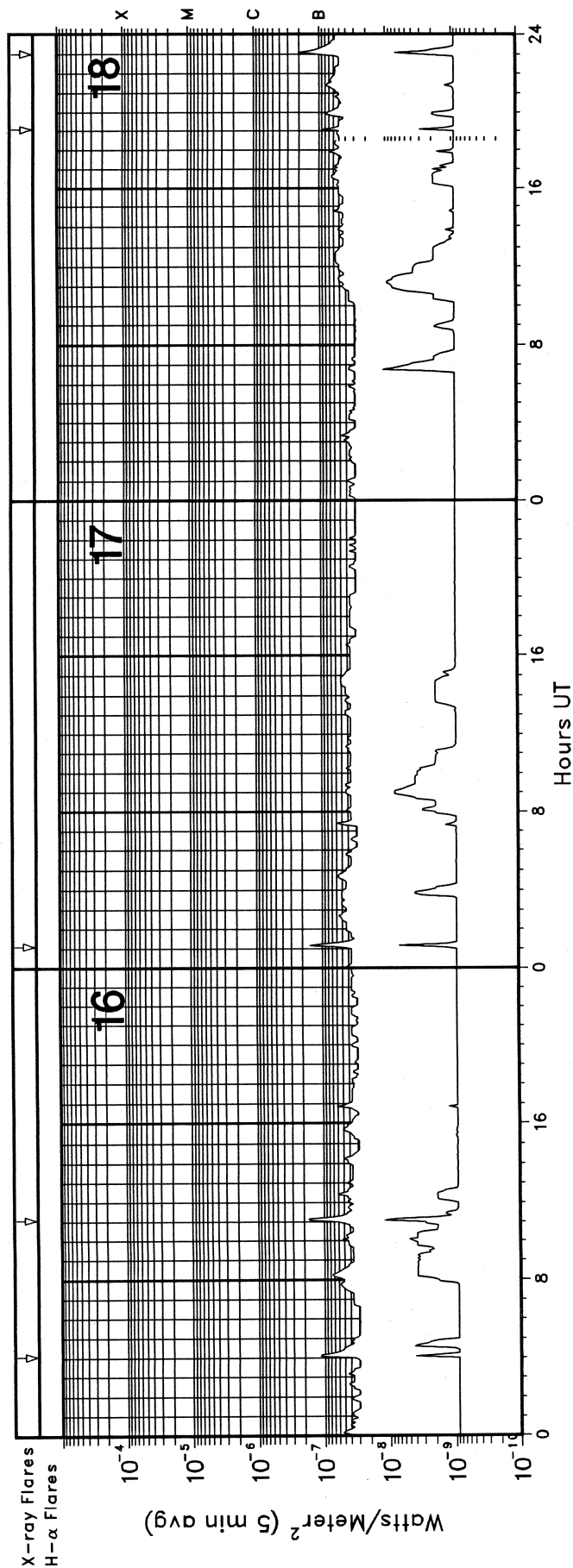
January 2006



GOES X-RAY DETECTOR

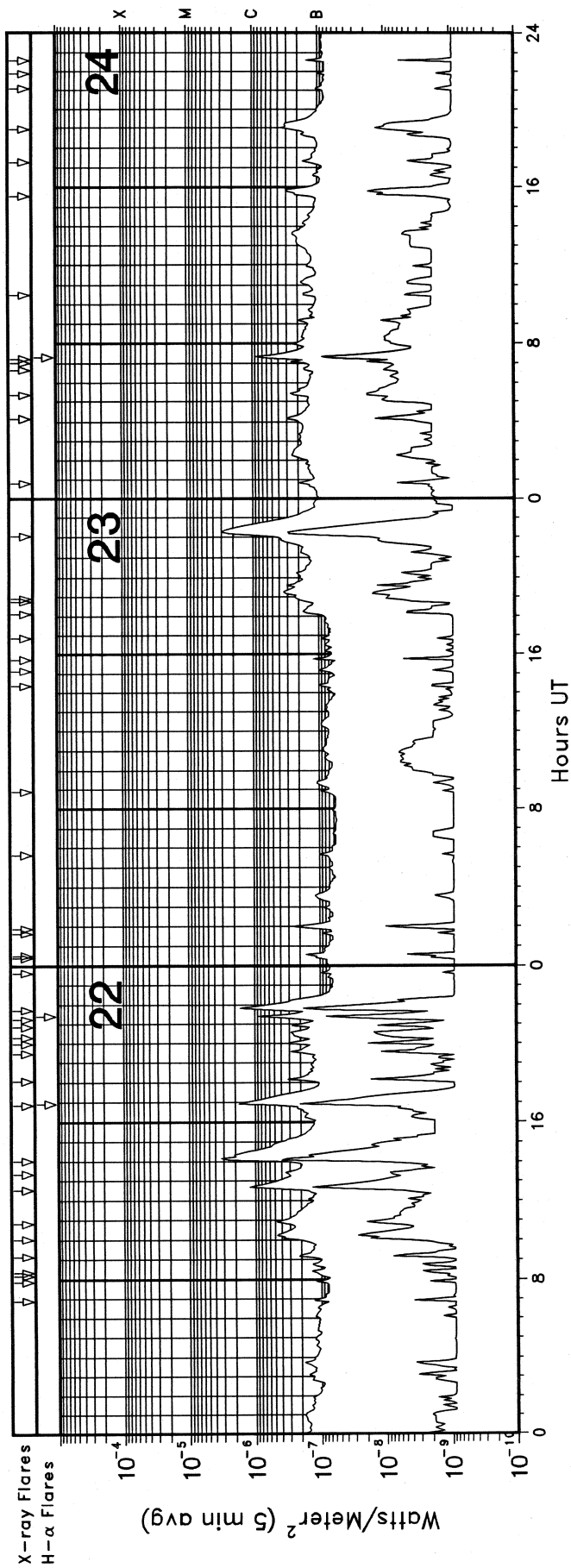
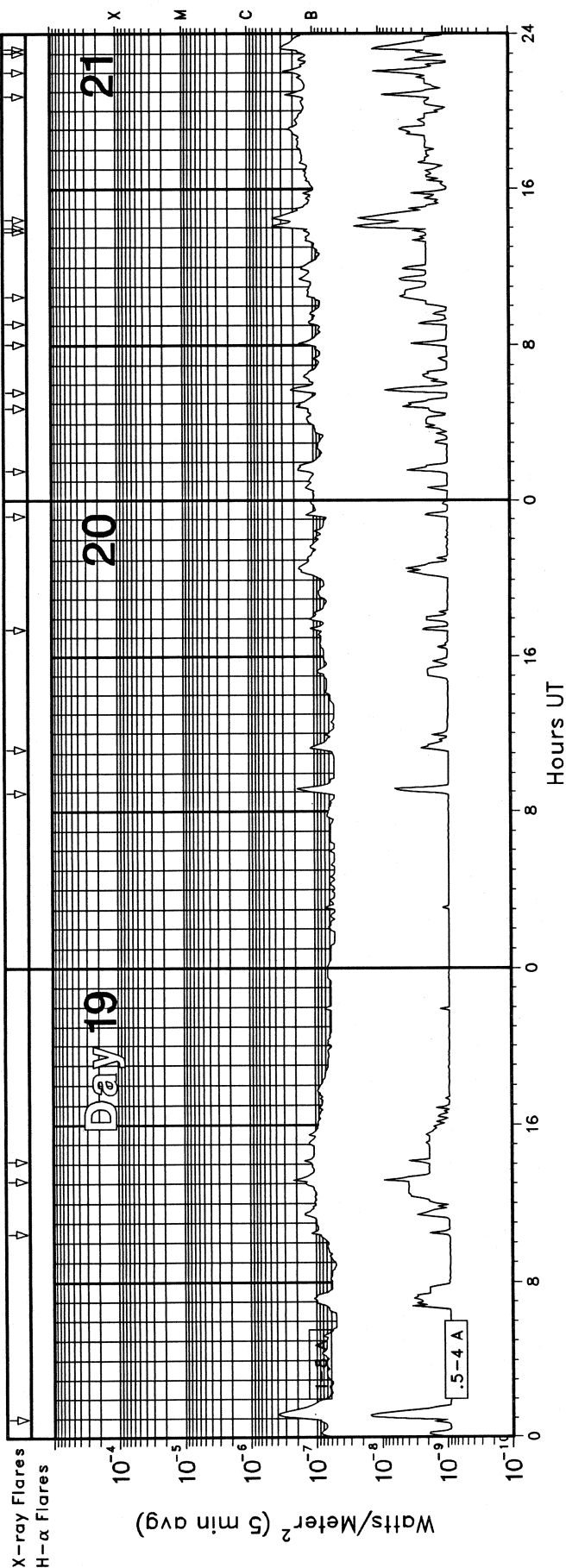
January 2006

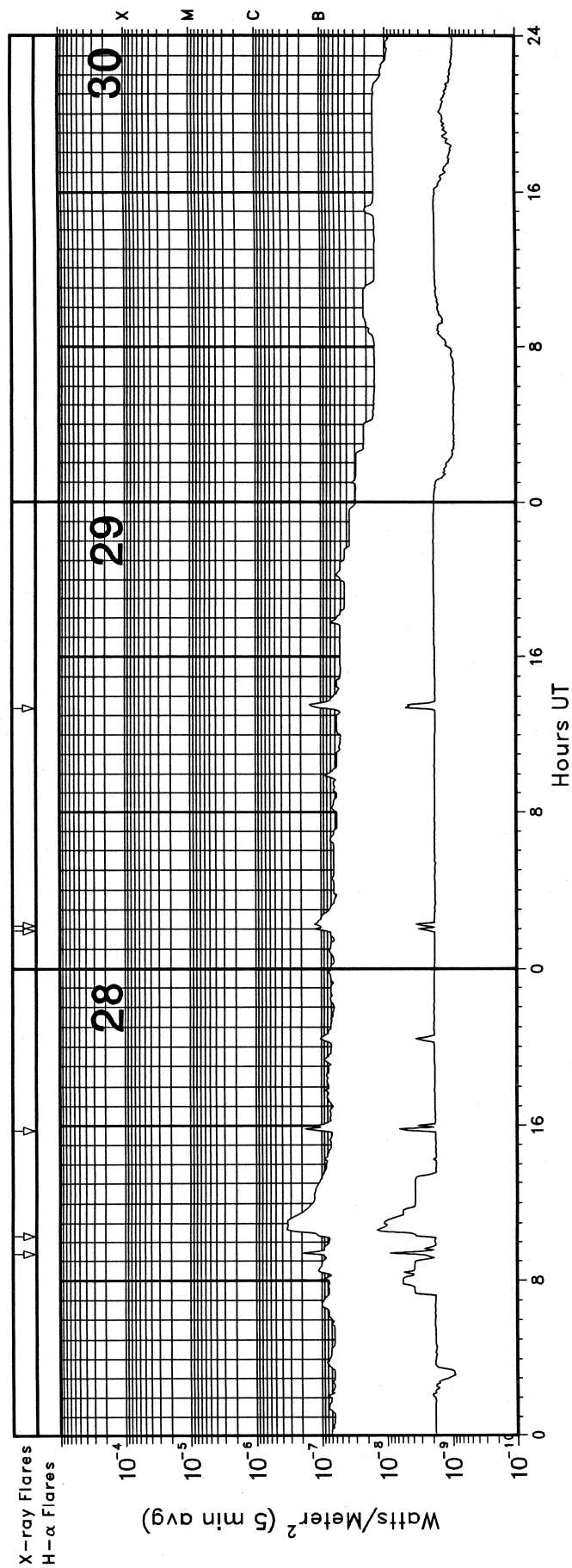




GOES X-RAY DETECTOR

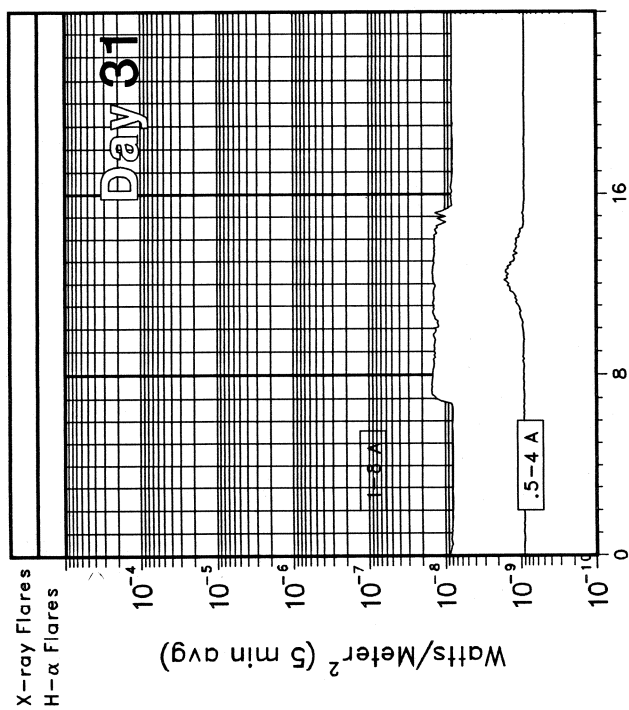
January 2006



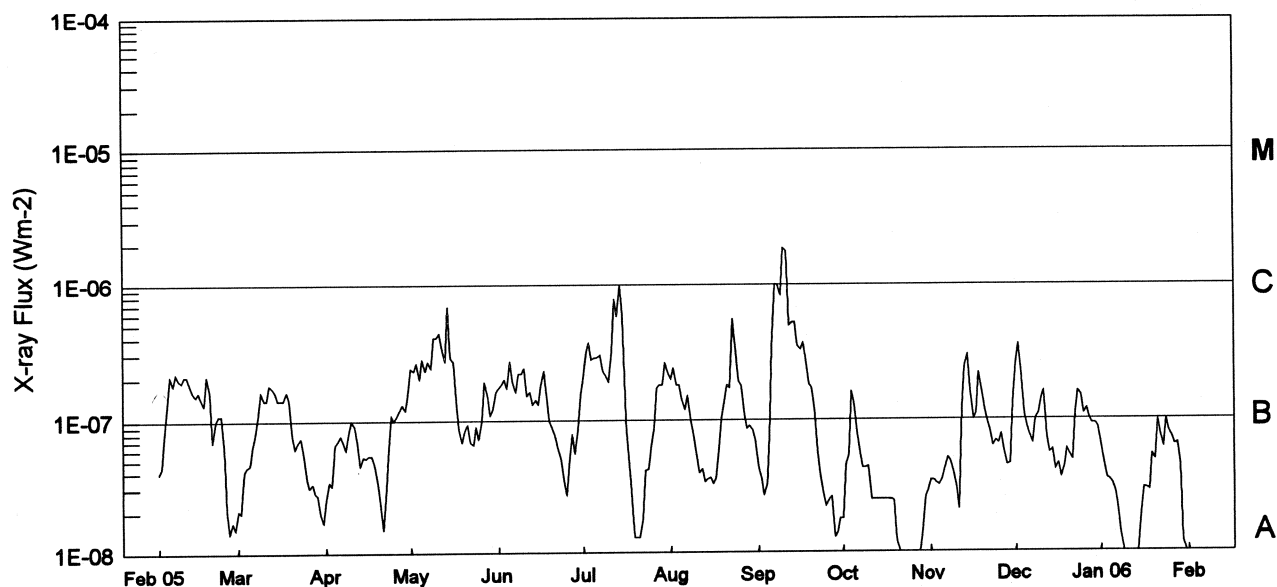


GOES X-RAY DETECTOR

January 2006



Preliminary GOES Satellite Daily X-Ray Background Feb 2005 - Jan 2006



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

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

17
Jan 06

JANUARY 2006

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
08	DSF	1423U	0713U	N53	W67	01	2.8		16	0	0	E	SVTO		
10	DSF	2034	2213	S46	E11	01	11.8	3	07	0	0	E	HOLL		
12	DSF	1445U	0726U	S05	W19	01	11.2		09	0	0	E	SVTO		
12	DSF	2337U	1440U	N24	W39	01	10.0	3	09	0	0	E	HOLL		
12	DSF	2337U	1440U	S02	W25	01	11.1	3	15	0	0	E	HOLL		
13	DSF	1506U	1039U	S02	W02	01	13.5		05	0	0	E	SVTO		
13	DSF	2337U	1440U	N24	W39	01	11.0	3	09	0	0	E	HOLL		
13	DSF	2337U	1440U	S02	W25	01	12.1	3	15	0	0	E	HOLL		
13	DSF	2351U	0141	S05	W18	01	12.6	2	05	0	0	E	LEAR		Normal Emission 1/3
18	DSF	1428U	0922U	N29	E56	01	23.0		14	0	0	E	SVTO		
18	DSF	1428U	0922U	S35	E60	01	23.4		14	0	0	E	SVTO		
19	APR	0917	1016	S31	E86	01	26.2	1		4	9	E	LEAR		
27	DSF	2351U	1458U	N11	E50	01	31.7	3	08	0	0	E	HOLL		
31	DSF	2341U	1439U	S25	W02	01	31.8	3	22	0	0	E	HOLL		

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

BSL = Bright Surge on Limb
 CAP = CAP Prominence (Tandberg-Hanssen)
 CRN = Coronal Rain
 DSD = Dark Surge on Disk
 DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
 LPS = Loops
 MDP = Mound Prominence
 SDF/DSF = Sudden Disappearing Filament
 SPY = Spray
 SSB = Solar Sector Boundary

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

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

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

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

ABST = Abastumani
 ATHN = Athens
 BUCA = Bucharest
 CATA = Catania

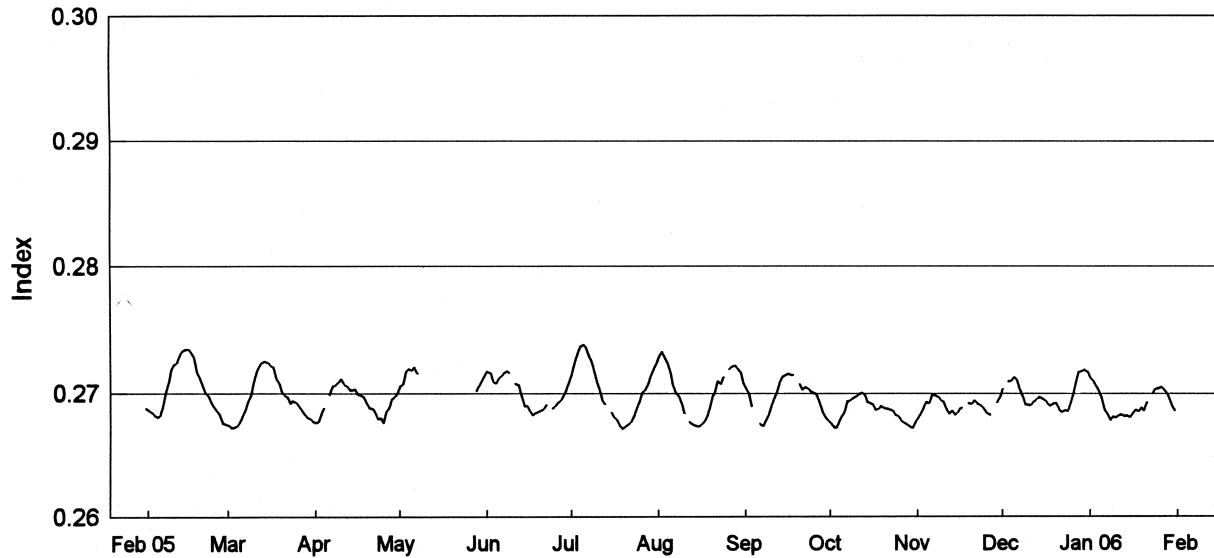
HOLL = Holloman
 KHAR = Kharkov
 LEAR = Learmonth
 PALE = Palehua

RAMY = Ramey
 SVTO = San Vito
 VORO = Voroshilov
 VALA = Valasske Mezirici
 WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

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

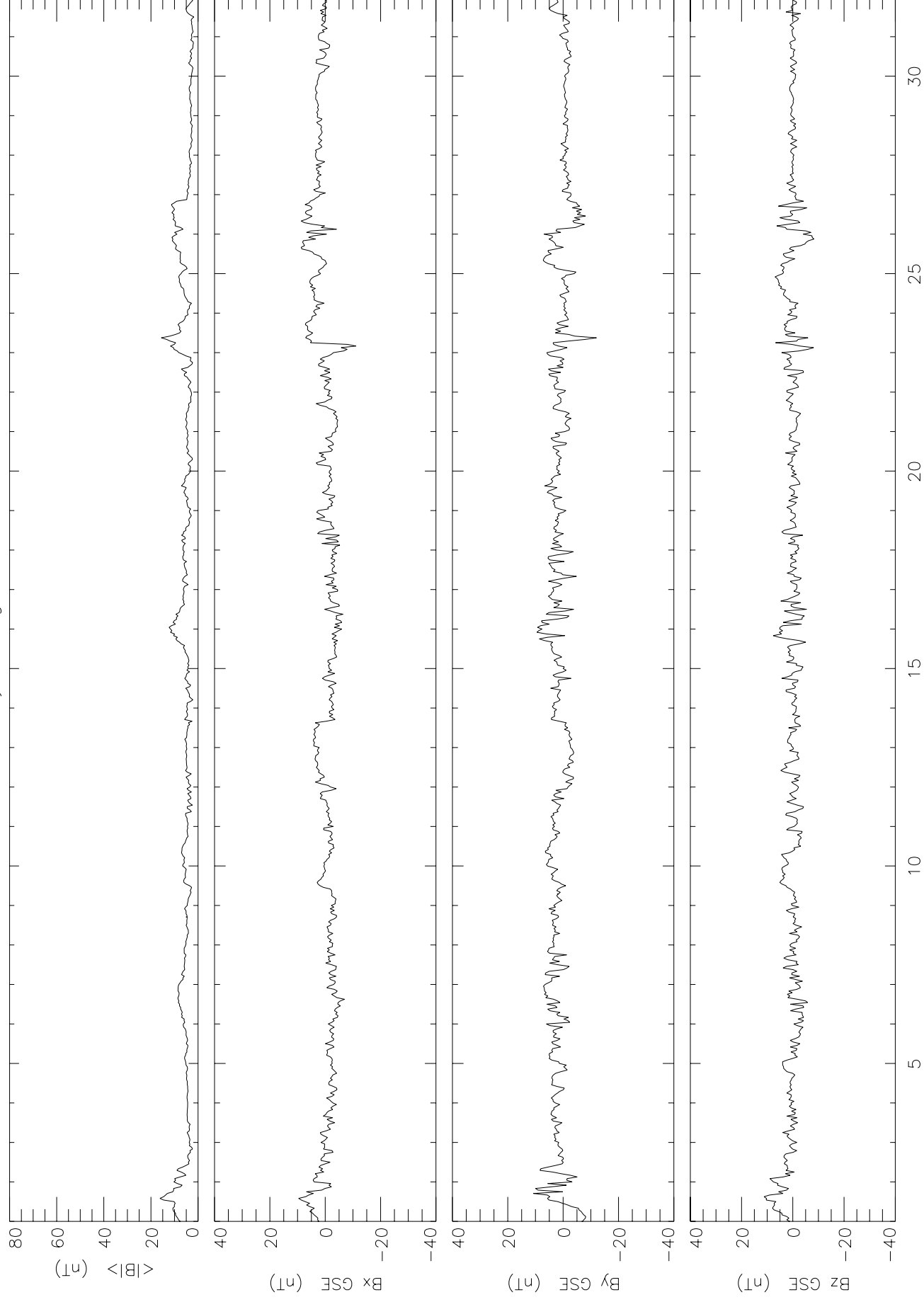
Feb 2005 - Jan 2006
Version 9.1



Day	Feb 05	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 06
1	0.2687	0.2675	0.2677	0.2706	0.2718	0.2715	0.2729	0.2704	0.2677	0.2680	0.2704	0.2713
2	0.2685	0.2673	0.2678	0.2707	0.2716	0.2726	0.2733	0.2699	0.2674	0.2684	—	0.2710
3	0.2683	0.2673	0.2685	0.2718	0.2710	0.2732	0.2729	0.2689	0.2673	0.2689	0.2710	0.2706
4	0.2682	0.2674	0.2689	0.2720	0.2708	0.2738	0.2725	—	0.2677	0.2694	0.2710	0.2702
5	0.2683	0.2677	—	0.2719	0.2712	0.2739	0.2717	—	0.2683	0.2692	0.2713	0.2695
6	0.2691	0.2681	0.2699	0.2721	0.2715	0.2737	0.2706	0.2676	0.2686	0.2699	0.2711	0.2687
7	0.2701	0.2687	0.2706	0.2715	0.2717	0.2730	0.2700	0.2674	0.2694	0.2699	0.2704	0.2683
8	0.2709	0.2693	0.2706	—	0.2718	0.2726	0.2698	0.2678	0.2694	0.2697	0.2697	0.2679
9	0.2719	0.2698	0.2709	—	0.2716	0.2718	0.2691	0.2684	0.2696	0.2695	0.2692	0.2682
10	0.2724	0.2708	0.2712	—	—	0.2708	0.2684	0.2690	0.2697	0.2693	0.2691	0.2681
11	0.2725	0.2718	0.2708	—	0.2708	0.2702	—	0.2697	0.2699	0.2688	0.2691	0.2683
12	0.2732	0.2722	0.2706	—	0.2707	0.2694	0.2678	0.2702	0.2701	0.2684	0.2693	0.2684
13	0.2734	0.2725	0.2703	—	0.2699	0.2691	0.2676	0.2709	0.2699	0.2686	0.2695	0.2682
14	0.2736	0.2726	0.2703	—	0.2690	—	0.2675	0.2714	0.2693	0.2683	0.2697	0.2683
15	0.2736	0.2725	0.2703	—	0.2690	0.2685	0.2674	0.2715	0.2693	0.2685	0.2696	0.2681
16	0.2732	0.2723	0.2700	—	0.2686	0.2681	0.2675	0.2716	0.2691	0.2688	0.2695	0.2684
17	0.2728	0.2721	0.2699	—	0.2683	0.2679	0.2678	0.2715	0.2687	0.2689	0.2692	0.2687
18	0.2717	0.2712	0.2697	—	0.2685	0.2674	0.2681	0.2715	0.2688	—	0.2690	0.2686
19	0.2712	0.2708	0.2692	—	0.2685	0.2672	0.2689	—	0.2690	0.2692	0.2692	0.2689
20	0.2706	0.2701	0.2689	—	0.2687	0.2674	0.2697	0.2708	0.2688	0.2692	0.2692	0.2686
21	0.2701	0.2699	0.2689	—	0.2688	0.2676	0.2702	0.2703	0.2688	0.2694	0.2687	0.2694
22	0.2698	0.2697	0.2685	—	0.2691	0.2677	0.2710	0.2705	0.2687	0.2692	0.2685	—
23	0.2693	0.2692	0.2680	—	—	0.2682	0.2707	0.2704	0.2686	0.2691	0.2687	0.2700
24	0.2689	0.2694	0.2681	—	0.2688	0.2688	0.2714	0.2702	0.2683	0.2689	0.2686	0.2704
25	0.2686	0.2693	0.2677	—	0.2690	0.2694	—	0.2701	0.2682	0.2685	0.2693	0.2704
26	0.2684	0.2690	0.2685	—	0.2692	0.2701	0.2720	0.2699	0.2679	0.2684	0.2700	0.2705
27	0.2677	0.2687	0.2689	—	0.2694	0.2702	0.2722	0.2692	0.2677	0.2683	0.2710	0.2703
28	0.2676	0.2684	0.2695	0.2702	0.2698	0.2707	0.2723	0.2686	0.2676	—	0.2717	0.2700
29		0.2682	0.2697	0.2706	0.2702	0.2714	0.2720	0.2682	0.2674	0.2693	0.2718	0.2696
30		0.2680	0.2700	0.2710	0.2709	0.2720	0.2717	0.2679	0.2673	0.2697	0.2719	0.2690
31		0.2678		0.2715		0.2724	0.2708		0.2677		0.2717	0.2686
Mean	0.2707	0.2697	0.2694	0.2712	0.2700	0.2703	0.2703	0.2698	0.2686	0.2690	0.2699	0.2692

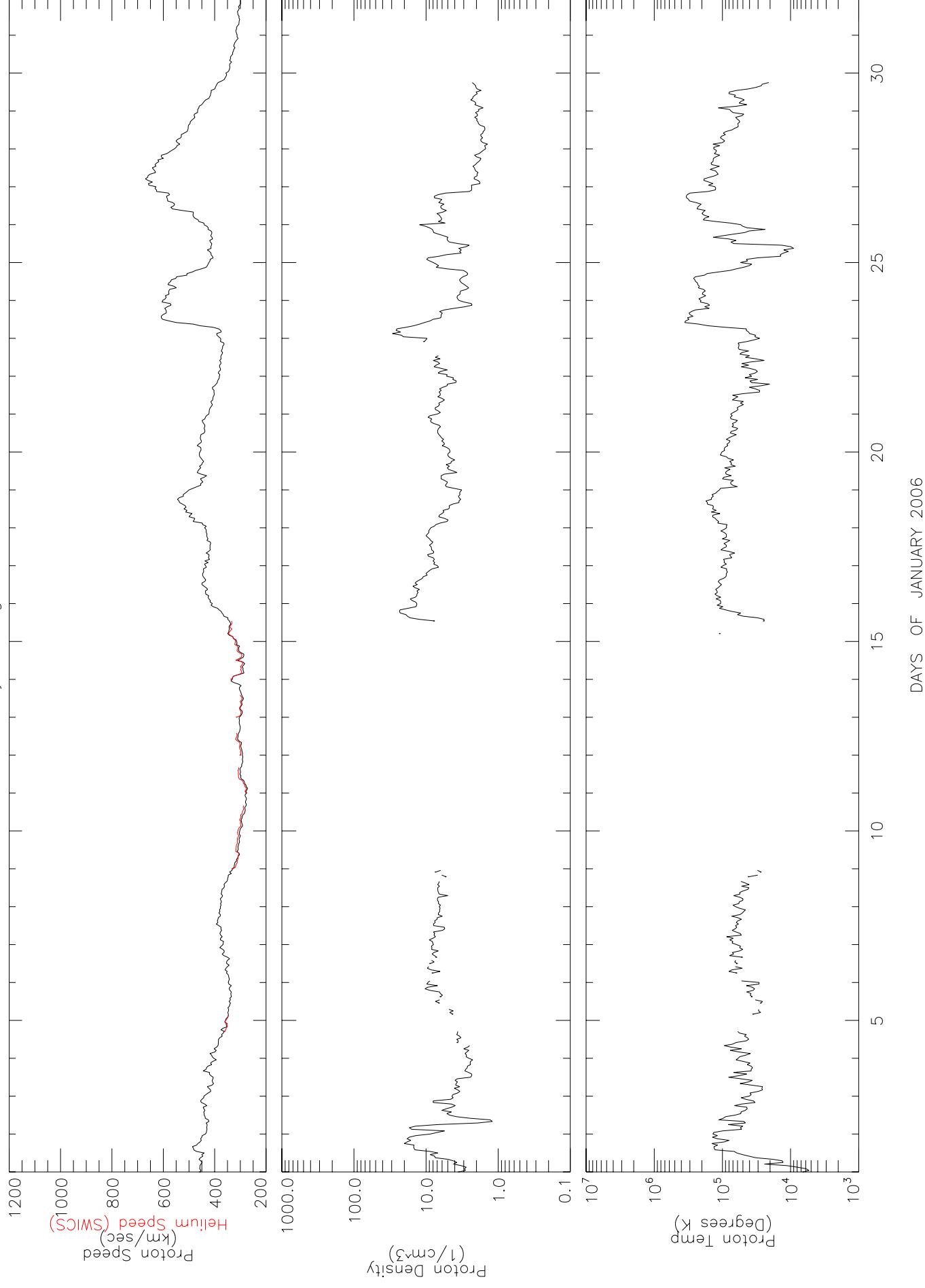
Data at: <http://www.sec.noaa.gov/ftpmenu/sbuw.html>

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

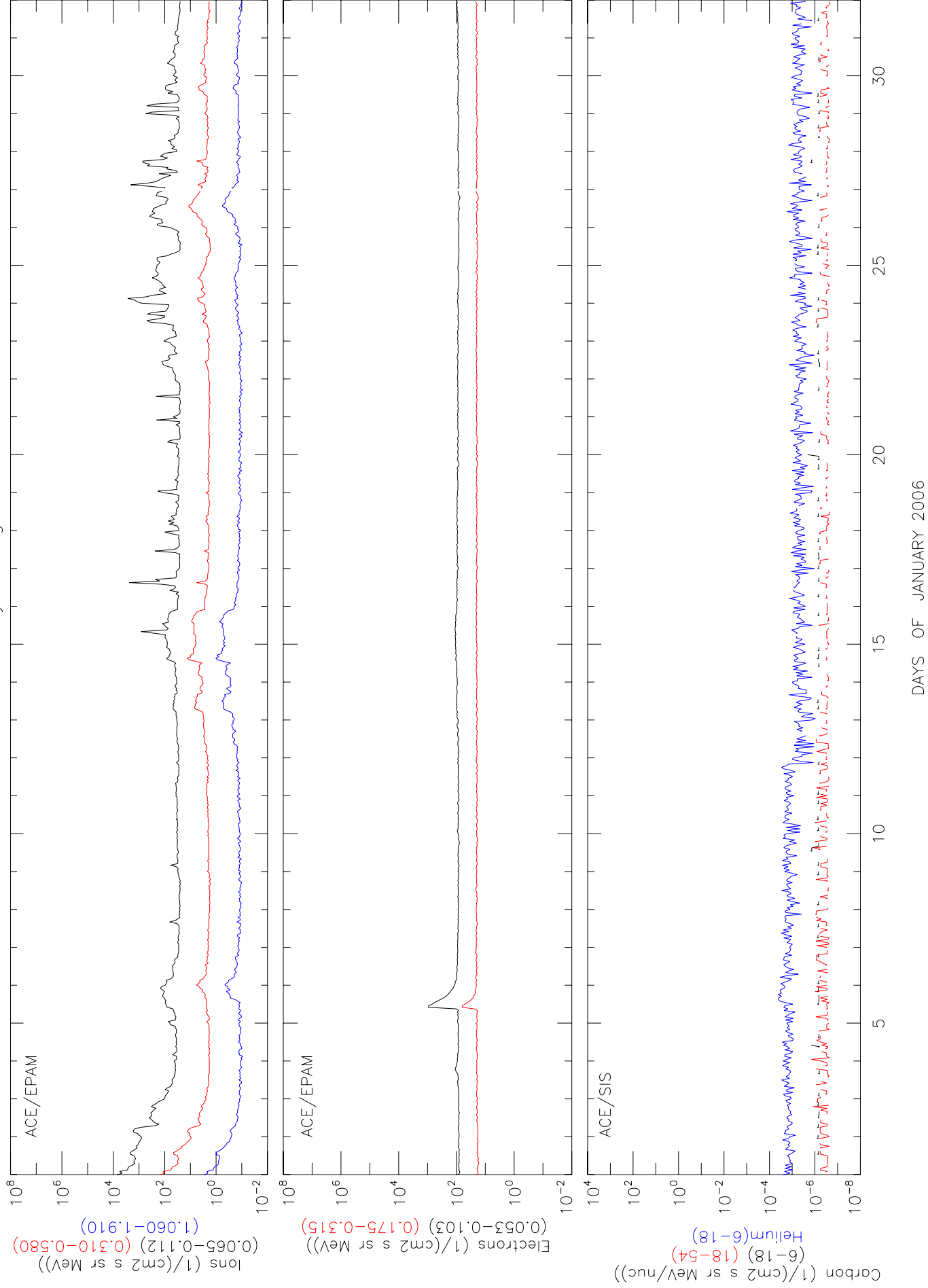


DAYS OF JANUARY 2006

ACE LEVEL2 DATA Solar Wind Plasma Hourly Averages for JANUARY 2006, from SWEPM



Solar Energetic Particles
ACE LEVEL2 DATA Hourly Averages for JANUARY 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
JANUARY 2006

First C2 Appearance		Central Width			Linear Fit			2nd order speed-----		Accel	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s			m/s ²	Position Angle degree	
2006/01/01	02:30:04	204	29	180	----	----	----	-----			209	Very Poor Event Only 3 points;C2
2006/01/01	03:54:04	155	3	273	----	----	----	-----			150	
2006/01/01	21:54:05	265	94	943	823	1076	1034	15.9			300	
2006/01/02	03:30:04	291	28	378	303	454	740	19.3			291	
2006/01/02	08:30:04	293	18	268	253	283	295	0.9			284	
2006/01/02	12:30:04	22	9	274	----	----	----	-----			24	Very Poor Event; Only 3 points;C2
2006/01/02	17:30:04	125	8	280	321	240	0	-16.3*			126	
2006/01/02	17:30:04	286	26	225	----	----	----	-----			283	Very Poor Event Only 3 points;C2
2006/01/02	23:30:04	278	9	400	290	522	1636	107.4*			280	
2006/01/03	00:54:05	252	17	290	----	----	----	-----			252	Very Poor Event Poor;3 points;C2
2006/01/03	05:06:04	278	9	278	234	321	887	30.2*			280	
2006/01/03	11:06:04	242	34	196	102	296	542	12.0*			246	Poor Event Very Poor; C2
2006/01/03	14:30:04	244	29	231	----	----	----	-----			249	
2006/01/03	18:06:04	291	40	129	----	----	----	-----			295	Very Poor; C2 Poor;3 points;C2
2006/01/03	20:33:40	295	26	173	143	202	657	17.3*			294	
2006/01/03	21:30:09	88	67	99	95	104	121	0.2*			94	Poor Event
2006/01/04	01:54:04	233	33	252	----	----	----	-----			234	Very Poor; C2 Poor Event; Only 2 points; C2
2006/01/04	05:54:04	286	34	503	----	----	----	-----			277	
2006/01/04	07:54:04	88	52	248	----	----	----	-----			93	Very Poor; C2 Very Poor; C2
2006/01/04	21:54:04	242	36	382	274	495	954	34.7*			244	
2006/01/04	21:54:04	296	46	160	----	----	----	-----			294	Very Poor; C2
2006/01/05	03:30:04	249	28	444	356	537	723	16.4*			246	Poor Event 3 points;Only C2
2006/01/05	09:54:04	290	41	311	275	348	403	3.6			293	
2006/01/05	09:54:04	99	42	362	317	407	452	4.4			94	Poor Event 3 points;Only C2
2006/01/05	12:30:04	98	47	464	392	538	601	9.1*			100	
2006/01/05	16:06:04	289	26	309	270	348	853	27.2*			295	
2006/01/06	07:31:49	290	24	326	349	301	0	-23.7*			296	Poor Event; Only 3 points; C2 Poor Event; Only 3 points; C2
2006/01/06	22:30:04	116	9	307	347	264	0	-23.3*			113	
2006/01/07	06:30:04	232	37	176	----	----	----	-----			246	Very Poor Event Poor Event
2006/01/07	10:34:04	115	13	447	578	318	0	-42.7*			106	
2006/01/07	19:54:04	225	65	193	----	----	----	-----			240	Very Poor Event 3 points;Only C2
2006/01/07	22:06:04	216	85	326	272	384	387	3.2*			244	
2006/01/08	01:31:44	83	28	176	----	----	----	-----			80	Very Poor Event; 3 points;Only C2 Very Poor Event
2006/01/08	06:30:04	231	13	399	----	----	----	-----			235	
2006/01/08	20:30:04	86	50	216	----	----	----	-----			77	Very Poor; C2 Poor Event
2006/01/09	02:30:04	81	34	186	289	77	0	-10.6*			82	
2006/01/10	12:30:04	134	45	311	294	327	379	2.4*			134	
2006/01/11	01:31:44	256	14	308	418	202	0	-44.1*			258	Poor Event; C2
2006/01/11	01:54:04	71	63	573	565	582	579	0.7			84	

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JANUARY 2006

First C2 Appearance		Central Width			Linear Fit ----2nd order speed-----			Accel	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree	
2006/01/12	07:31:43	127	18	358	----	----	----	-----	127	Very Poor Event; 3 points;Only C2
2006/01/12	15:30:04	224	298	480	310	654	596	10.9	153	Partial Halo
2006/01/13	00:54:04	281	126	433	465	400	418	-1.7	267	Partial Halo
2006/01/13	03:06:04	181	28	197	176	216	265	1.6*	184	Poor Event
2006/01/13	08:30:04	173	17	225	213	238	253	0.8*	172	
2006/01/13	13:54:05	266	19	292	316	266	0	-5.6*	266	Poor Event
2006/01/13	14:30:04	161	41	235	228	242	258	0.6*	171	
2006/01/13	17:54:04	114	23	660	552	765	888	20.7*	117	
2006/01/13	23:54:04	306	52	330	----	----	----	-----	298	Very Poor Event
2006/01/14	00:30:04	77	29	639	576	705	678	5.2	75	
2006/01/14	02:30:05	155	23	170	166	174	182	0.2*	151	Poor Event
2006/01/14	08:30:04	155	21	278	315	244	150	-3.2*	156	
2006/01/15	05:30:04	240	12	435	----	----	----	-----	248	Very Poor; C2
2006/01/15	06:06:04	133	16	259	----	----	----	-----	130	Very Poor Event
2006/01/15	16:30:04	64	16	305	----	----	----	-----	67	Very Poor Event
2006/01/16	12:00:04	84	24	467	----	----	----	-----	81	Very Poor;OnlyC2
2006/01/17	03:30:04	248	35	419	302	541	576	10.2	257	
2006/01/17	05:54:04	122	38	333	230	446	711	19.0*	120	
2006/01/18	12:59:41	125	32	152	141	162	240	1.6*	123	Poor Event; C2
2006/01/18	12:59:41	72	39	98	0	182	244	2.6*	76	Poor Event
2006/01/18	23:54:05	246	120	368	0	686	614	15.8	251	
2006/01/19	01:31:44	106	14	426	----	----	----	-----	110	Very Poor; C2
2006/01/19	09:30:04	128	87	691	436	977	849	21.9	137	
2006/01/19	09:54:04	46	38	578	438	720	783	17.9*	41	
2006/01/20	07:31:45	146	63	120	0	287	285	3.7*	131	
2006/01/20	09:54:06	196	188	405	436	372	368	-2.3*	122	Partial Halo
2006/01/20	21:08:05	116	19	488	616	348	409	-10.9*	120	Poor Event
2006/01/21	08:06:04	68	17	241	148	337	406	6.4*	68	Poor Event
2006/01/21	11:06:30	119	18	361	----	----	----	-----	111	Very Poor Event
2006/01/22	00:30:04	113	15	255	----	----	----	-----	112	Very Poor Event
2006/01/22	05:30:04	124	25	427	323	546	500	6.1*	117	Poor Event
2006/01/22	14:30:04	251	16	343	----	----	----	-----	252	Very Poor Event
2006/01/23	00:06:04	248	18	287	----	----	----	-----	253	Very Poor Event
2006/01/23	10:54:04	271	52	251	249	254	287	0.8*	281	Poor Event; Only C2
2006/01/23	20:30:04	232	11	688	----	----	----	-----	238	Very Poor; 3 points;Only C2
2006/01/24	00:54:04	242	15	423	----	----	----	-----	245	Very Poor Event; 3 points;Only C2
2006/01/24	20:58:39	262	17	308	----	----	----	-----	264	Very Poor Event; 3 points;Only C2
2006/01/25	06:54:05	329	9	258	----	----	----	-----	327	Very Poor; C2
2006/01/25	23:30:04	91	66	191	0	436	418	7.5*	86	

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JANUARY 2006

First C2 Appearance		Central Width		Linear Fit	----2nd order speed-----			Accel	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree	
2006/01/26	03:54:04	278	21	613	----	----	----	-----	274	Very Poor Event; 3 points;Only C2
2006/01/26	06:30:04	305	11	318	----	----	----	-----	302	Very Poor; C2
2006/01/26	09:06:06	275	23	677	802	558	448	-20.0*	271	Poor Event
2006/01/26	17:06:04	275	19	435	----	----	----	-----	274	Very Poor Event; 3 points;Only C2
2006/01/27	06:06:04	129	9	379	----	----	----	-----	123	Very Poor; C2
2006/01/27	21:30:04	272	15	696	----	----	----	-----	272	Very Poor Event; 3 points;Only C2
2006/01/27	22:30:04	242	31	309	----	----	----	-----	240	Very Poor; C2
2006/01/28	02:30:04	298	20	385	256	505	541	9.6*	294	Poor Event
2006/01/28	11:30:04	240	29	353	278	427	542	9.0*	243	Poor Event
2006/01/28	14:30:05	301	48	85	----	----	----	-----	303	Very Poor; C2
2006/01/28	23:06:50	239	35	299	----	----	----	-----	243	Very Poor; C2
2006/01/29	01:31:44	308	55	176	72	297	605	15.2*	311	Poor Event; C2
2006/01/29	03:54:05	243	33	301	381	219	0	-8.3*	244	Poor Event
2006/01/29	05:30:04	294	23	261	----	----	----	-----	300	Very Poor Event
2006/01/29	18:30:04	63	58	123	0	330	296	3.7*	70	Poor Event
2006/01/30	03:54:04	104	28	334	288	383	407	3.5*	101	Poor Event
2006/01/30	07:31:43	241	26	248	----	----	----	-----	240	Very Poor;OnlyC2
2006/01/30	08:54:04	100	26	298	----	----	----	-----	109	Very Poor Event
2006/01/30	16:06:04	65	35	379	194	581	513	10.0*	74	Poor Event
2006/01/30	17:30:04	238	26	206	----	----	----	-----	237	Very Poor;OnlyC2
2006/01/31	10:30:53	236	35	370	461	273	0	-16.9*	233	Poor Event
2006/01/31	16:54:05	233	37	328	282	377	405	3.6*	236	Poor Event
2006/01/31	20:58:39	231	40	418	261	579	1196	58.0*	233	Poor; Only C2
2006/01/31	23:30:04	239	48	479	----	----	----	-----	239	Very 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.