

FEBRUARY 2008 NUMBER 762 - Part II



Solar-Geophysical Data comprehensive reports

Data for August 2007 and Miscellaneous

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

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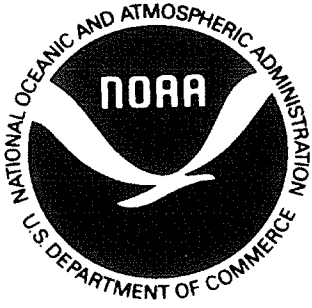
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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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FEBRUARY 2008 NUMBER 762 - Part II

Solar-Geophysical Data comprehensive reports

Data for August 2007

International Standard Serial Number: 0038-0911

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

NATIONAL GEOPHYSICAL DATA CENTER

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SOLAR-GEOPHYSICAL DATA

Number 762

(Issued in Two Parts)

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Solar-Terrestrial Physics Division

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INCLUDING:

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

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	JUN 07	JUL	AUG	SEP	OCT	NOV	DEC	Jan 08
A. SOLAR AND INTERPLANETARY									
A.1	Sunspot Drawings	756A 46	757A 40	758A 40	759A 40	760A 40	761A 44	762A 40	
A.2aa	International Sunspot Numbers	755A 23	756A 24	757A 24	758A 23	759A 24	760A 23	761A 24	762A 24
A.2c	American Sunspot Numbers	755A 23	756A 24	757A 24	758A 23	759A 24	760A 23	761A 24	762A 24
A.3a	Mt. Wilson Magnetograms	756A 46	757A 40	758A 40	759A 40	760A 40	761A 44	762A 40	
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A.3d	Mean Solar Mag Field (Stanford)	755A 33	756A 31	757A 31	758A 29	759A 31	760A 30	761A 34	762A 31
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A.4	H-alpha Filtergrams	756A 46	757A 40	758A 40	759A 40	760A 40	761A 44	762A 40	
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A.6c	Stanford Solar Mag Field Map	756A 36	757A 34	758A 34	759A 34	760A 34	761A 38	762A 34	
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A.6g	Sac Peak Coronal Line Maps	756A 38	757A 36	758A 36	759A 36	760A 36	761A 40	762A 37	
A.6h	Photometric WL SanFernando								
A.7h	Coronal Line Emission (Sac Peak)	756A 46	757A 40	758A 40	759A 40	760A 40	761A 44	762A 40	
A.7j	Coronal Hole Daily Maps (NSO/KP)								
A.7k	Coronal Index (Slovak Academy)								
A.7m	Coronal Mass Ejections (CSPSW)	760B 24	761B 24	762B 21					
A.8aa	2800 MHz- Solar Flux (Penticton)	755A 23	756A 24	757A 24	758A 23	759A 24	760A 23	761A 24	762A 24
A.8ac	2800 MHz Adj Solar Flux (Pent.)	755A 23	756A 24	757A 24	758A 23	759A 24	760A 23	761A 24	762A 24
A.8g	Adjusted Daily Solar Flux SGMR	755A 23	756A 24	757A 24	758A 23	759A 24	760A 23	761A 24	762A 24
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A.10h	Nobeyama Radioheliogr 17 GHz	756A 76	757A 71	758A 71	759A 70	760A 71	761A 74	762A 71	
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A.11g	Solar X-ray GOES (event table)	755A 28	756A 28	757A 28	758A 27	759A 28	760A 27	761A 29	762A 28
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A.11l	Solar UV NIMBUS7								
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A.11o	Solar UV SUSIM (UARS)								
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C.1h	H-alpha Flare Index (ImpxDur)								
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The entry "748A 48" under Oct, for example, means the sunspot drawings for Oct appear in SOLAR-GEOPHYSICAL DATA No 748, Part I, and that they begin on page 48, "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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H α SOLAR FLARES

5
Aug 07

AUGUST 2007

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
								USAF Region	CMP Mo Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0006		24	0750	0754	0808	S05	E42	10969	08	27.5	18	SN				87		FH		
	LEAR	24	0750	0754	0810	S06	E41	10969	08	27.4	20	SN	3	E		87		FH		
	KANZ	24	0750	0755	0807	S04	E44	10969	08	27.6	17	SN	2	E						
0007		24	1149	1153	1200	S04	E43	10969	08	27.7	11	SF				12		F		
	KANZ	24	1149	1154	1202	S04	E41	10969	08	27.5	13	SF	2	E						
	SVTO	24	1153	1153	1157	S03	E45	10969	08	27.8	4	SF	3	E		12		F		
		24	1645		1707															
		24	1930		1935															
		24	2000		2005															
		24	2012		2058															
0008	LEAR	24	2329	2331	2334	S04	E36	10969	08	27.7	5	SF	3	E		13				
		25	1953		2254															
		26	2013		2044															
		26	2127		2251															
		27	0201		0425															
		27	2009		2047															
		27	2059		2302															
		28	1928		1941															
		28	2013		2025															
		28	2113		2125															
		28	2148		2259															
		29	1935		2254															
		30	1631		1741															
		30	1827		2252															
	0009	LEAR	31	0536	0537	0539	S07	W49	10969	08	27.6	3	SF	3	E		35			
			31	1255		1256														
			31	1905		1917														
		31	1926		1933															
		31	1950		2001															
		31	2018		2304															

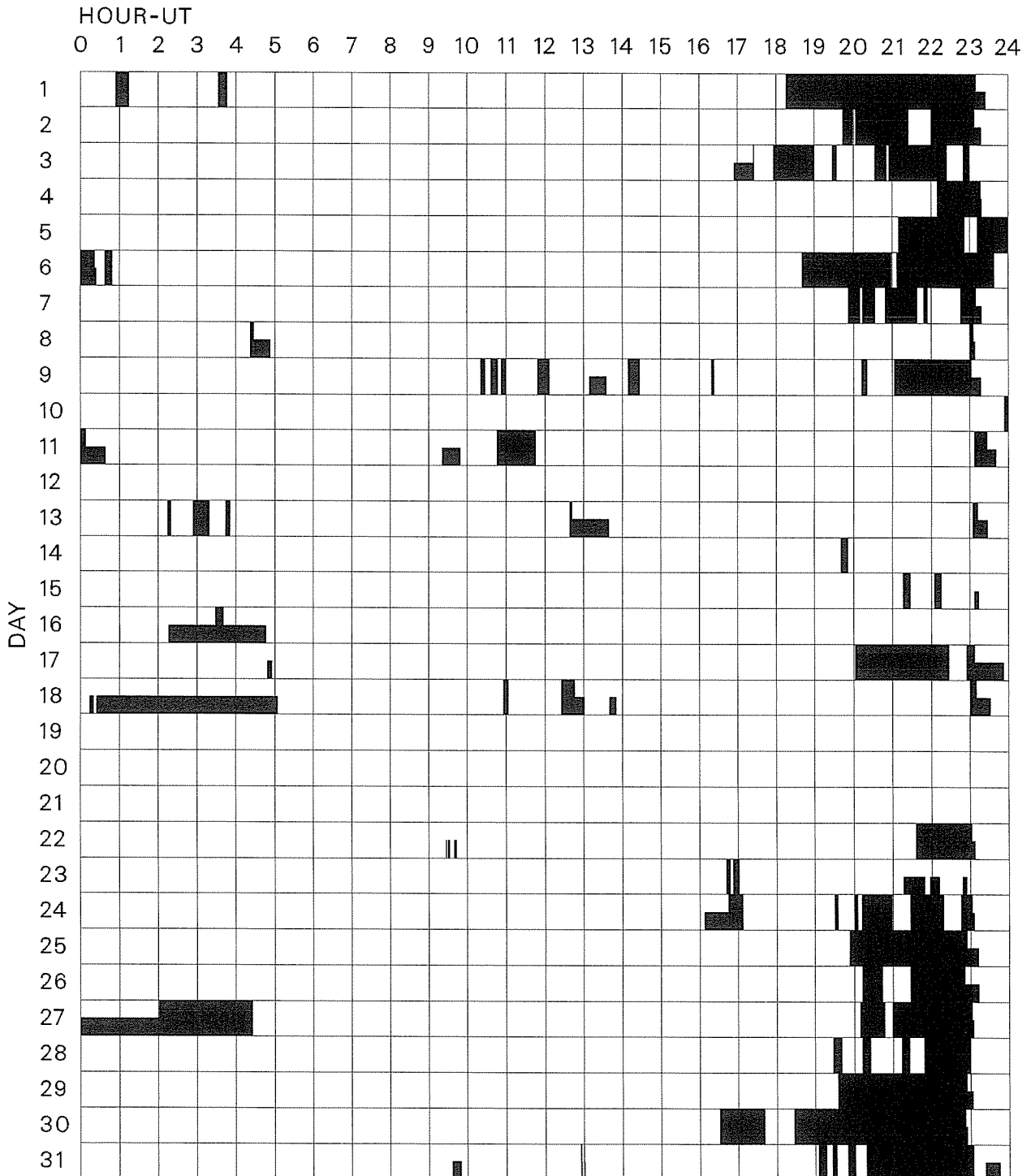
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

AUGUST 2007



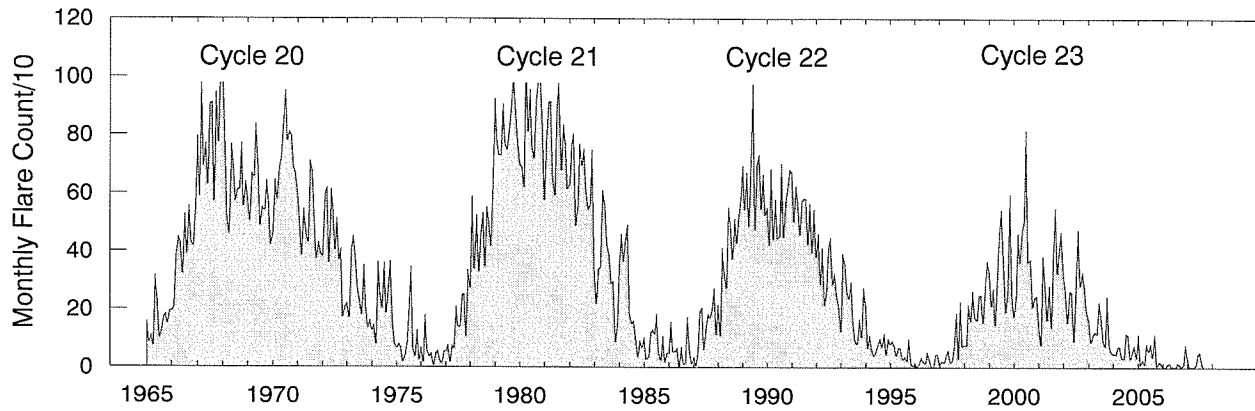
Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual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

Holloman
Kanzelhoehe

Learmonth

San Vito

Monthly Counts of Grouped Solar Flares Jan 1965 - Aug 2007



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	16	4	2	1	17	11	3	12	78	159
2007	29	2	1	2	9	47	53	9					152

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

8
Aug 07

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

AUGUST 2007

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
05	410 LEAR	8 S	0906.0	0906.0	2.0	160.0			QL=4 ST=2 TYP=3
	410 LEAR	48 C	0913.0	0924.0	13.0	300.0			QL=4 ST=2 TYP=8
	33 UPIC	8 S	1402.5	1403.0	1.5				
06	33 UPIC	8 S	0917.0	0917.5	1.5				
	245 SGMR	4 S/F	1529.0	1530.0	4.0	63.0			QL=4 ST=3 TYP=3
	245 SGMR	4 S/F	1529.0	1530.0	511.0	51.0			QL=4 ST=3 TYP=3
	610 SGMR	8 S	1530.0	1530.0	2.0	26.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	1530.0	1530.0	2.0	26.0			QL=4 ST=3 TYP=3
	410 SGMR	4 S/F	1530.0	1532.0	3.0	67.0			QL=4 ST=2 TYP=3
	410 SGMR	4 S/F	1530.0	1532.0	3.0	67.0			QL=4 ST=3 TYP=3
07	245 SGMR	49 GB	1944.0	1944.0	U	560.0			QL=4 ST=2 TYP=6
08	2804 VORO	40 F	0005.6	0006.0	1.3	4.0			
10	33 UPIC	4 S/F	1657.5	1658.0	2.5				
14	245 SGMR	8 S	1745.0	1746.0	1.0	120.0			QL=4 ST=2 TYP=3
15	2804 VORO	2 S/F	0056.6	0057.6	1.6	4.8			
	2804 VORO	2 S/F	0202.8	0203.2	1.2	3.5			
20	245 SGMR	48 C	1815.0	1818.0	11.0	520.0			QL=4 ST=2 TYP=8
	245 SGMR	4 S/F	1815.0	1818.0	345.0	180.0			QL=4 ST=1 TYP=3
	245 SGMR	48 C	1832.0	1835.0	10.0	240.0			QL=4 ST=2 TYP=8
	245 SGMR	48 C	1851.0	1853.0	5.0	110.0			QL=4 ST=2 TYP=8
	245 SGMR	8 S	1851.0	1853.0	2.0	110.0			QL=4 ST=2 TYP=3
	245 SGMR	48 C	1905.0	1909.0	7.0	100.0			QL=4 ST=2 TYP=8
21	33 UPIC	3 S	1613.0	1613.5	1.0				
24	245 SGMR	8 S	1217.0	1217.0	U	360.0			QL=4 ST=2 TYP=3
28	33 UPIC	3 S	1057.0	1057.5	1.5				
29	245 SGMR	8 S	1138.0	1138.0	1.0	110.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	1138.0	1139.0	1.0	200.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

CUBA = Havana	LEAR = Learmonth	SGMR = Sagamore Hill
GORK = Gorky	PEKG = Peking	SVTO = San Vito
HIRA = Hiraiso	PALE = Palehua	TORN = Torun
IZMI = IZMIRAN	PENT = Penticton	UPIC = Upice

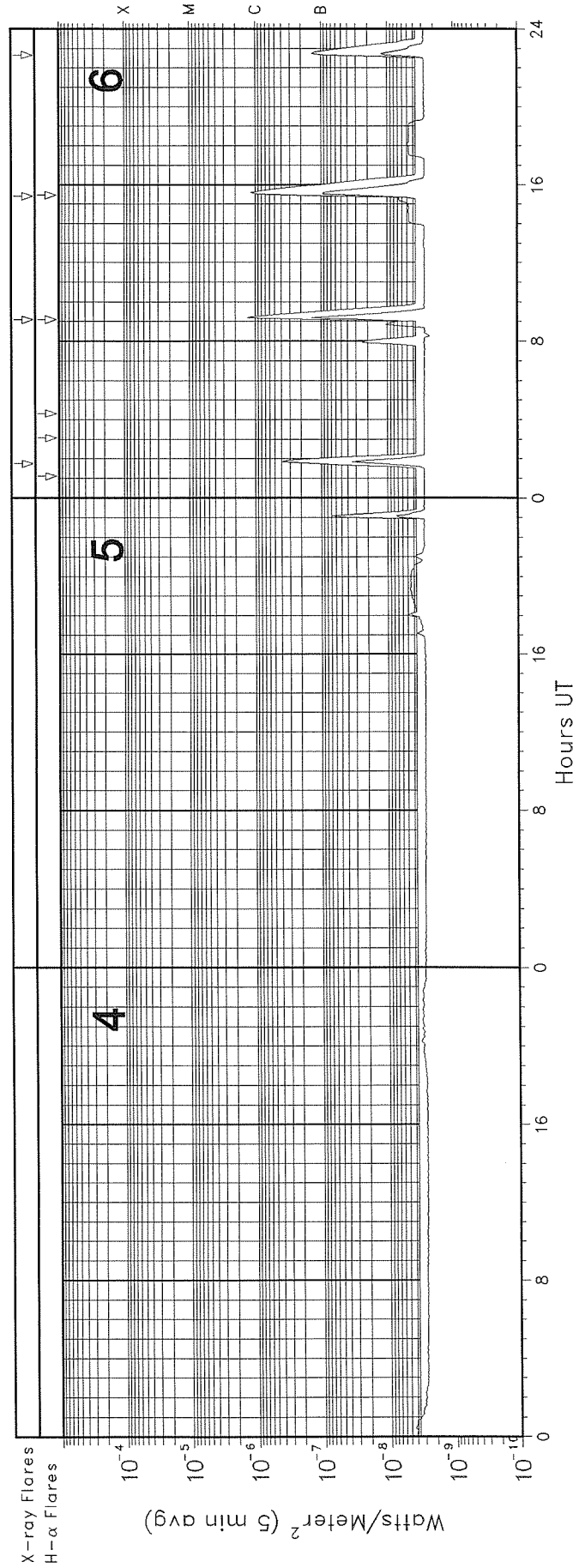
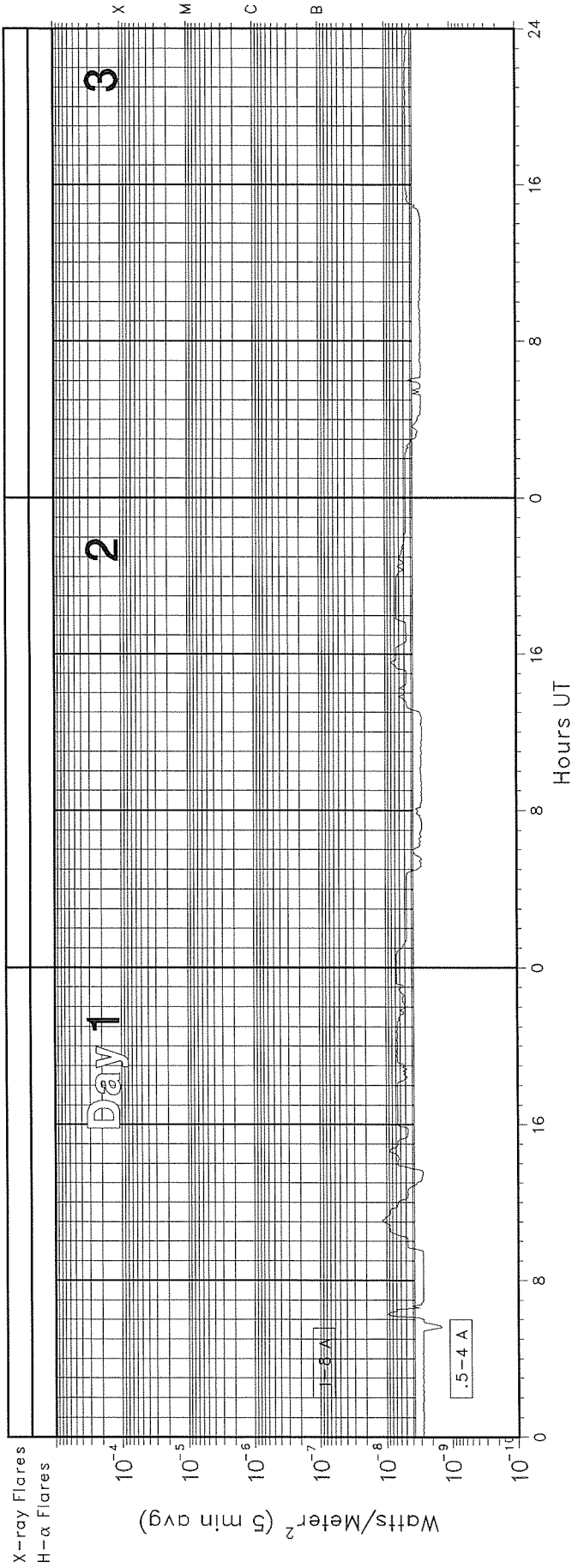
Explanation of Type Code:

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	26O 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 Hiraiso, Japan 500 and 200 MHz.

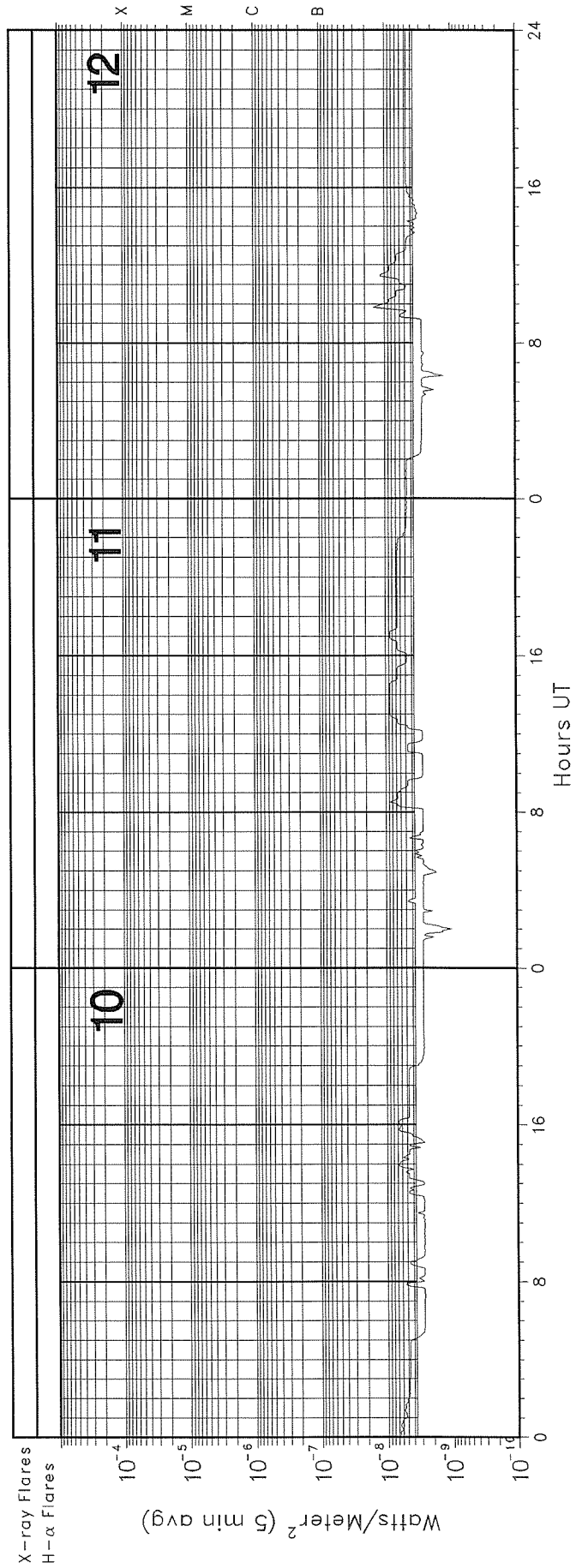
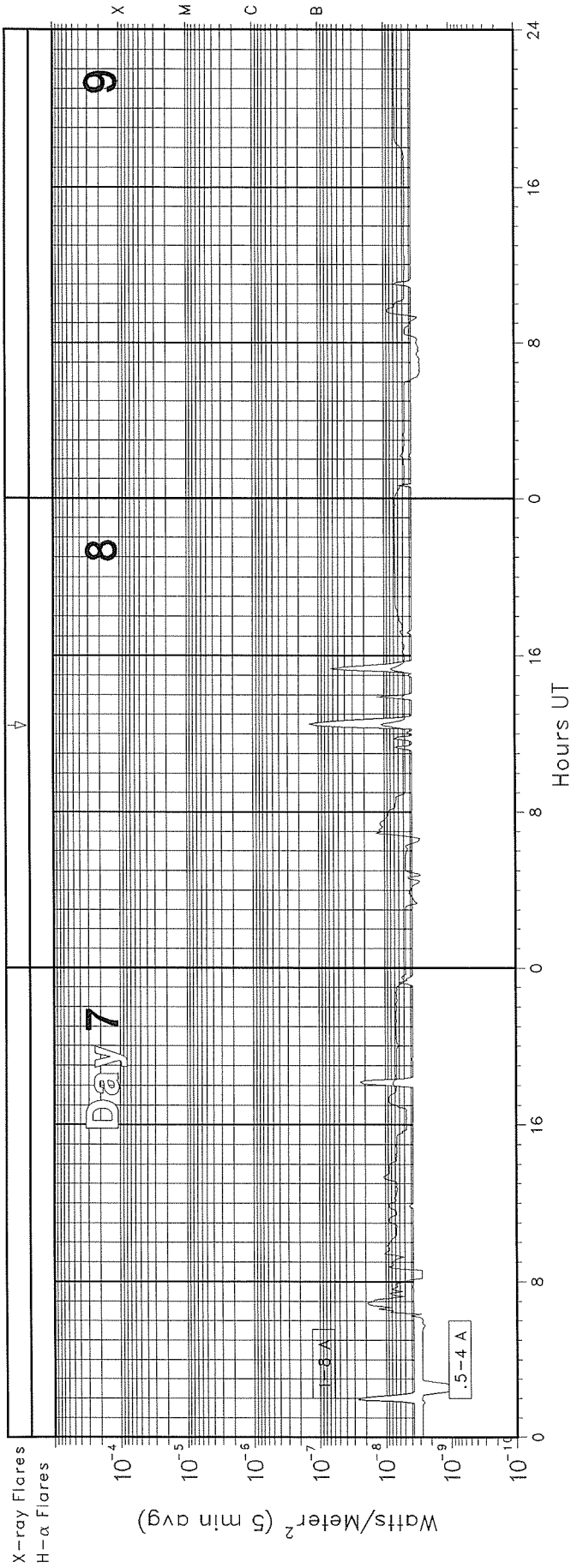
GOES X-RAY DETECTOR

August 2007

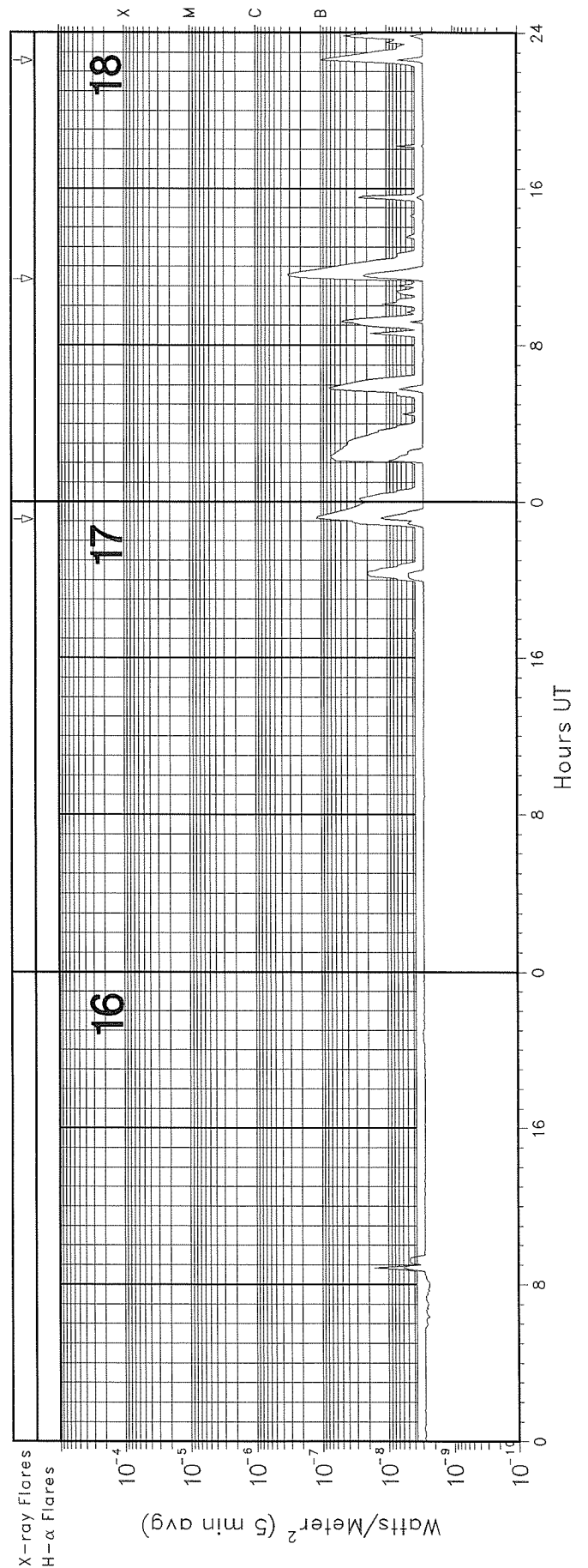
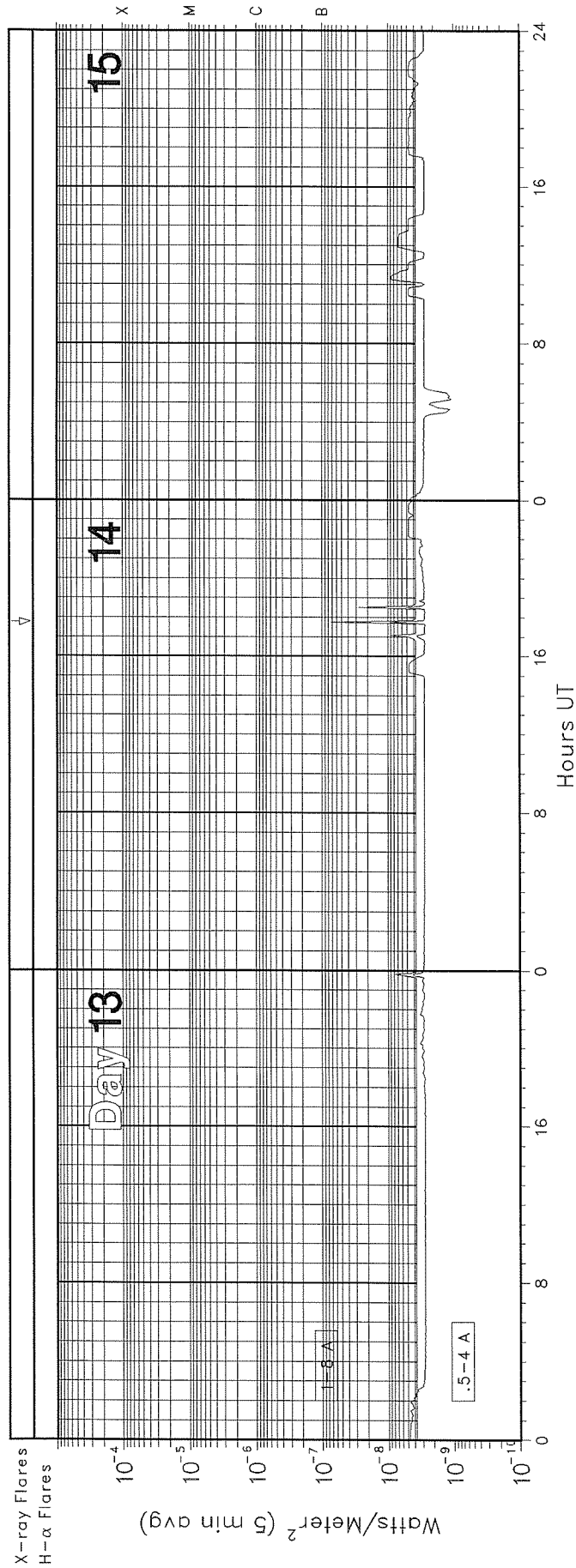


GOES X-RAY DETECTOR

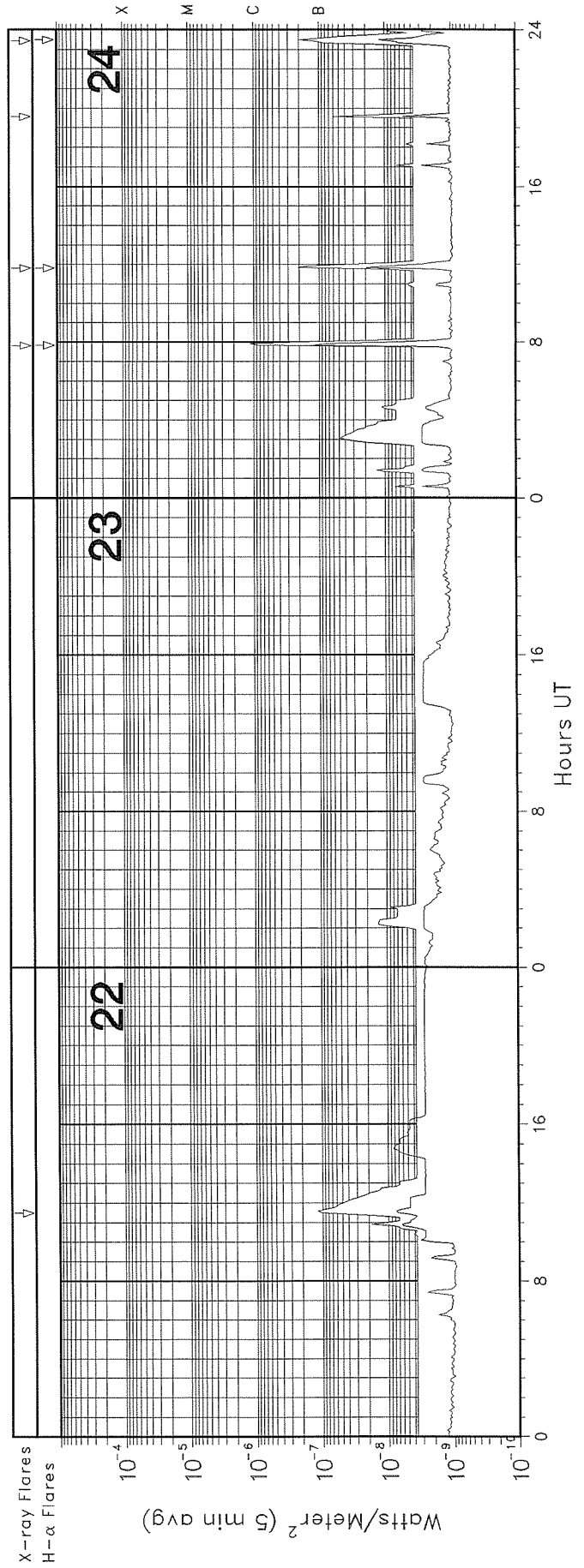
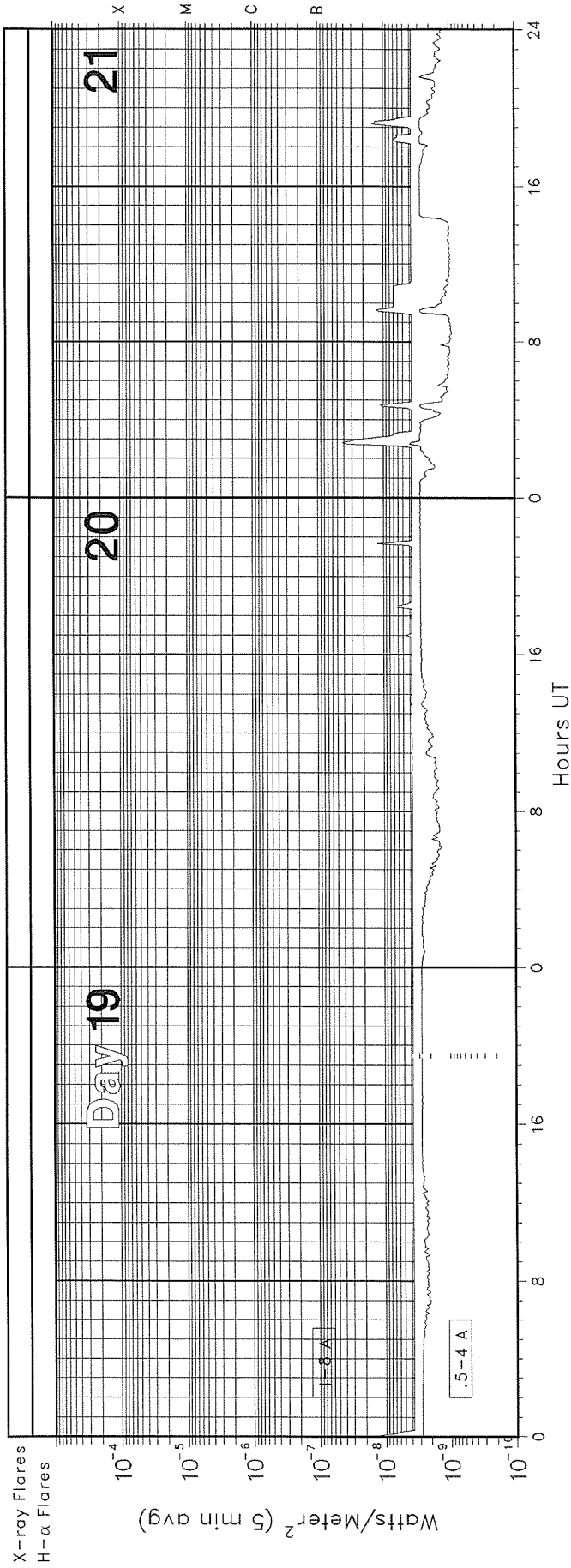
August 2007



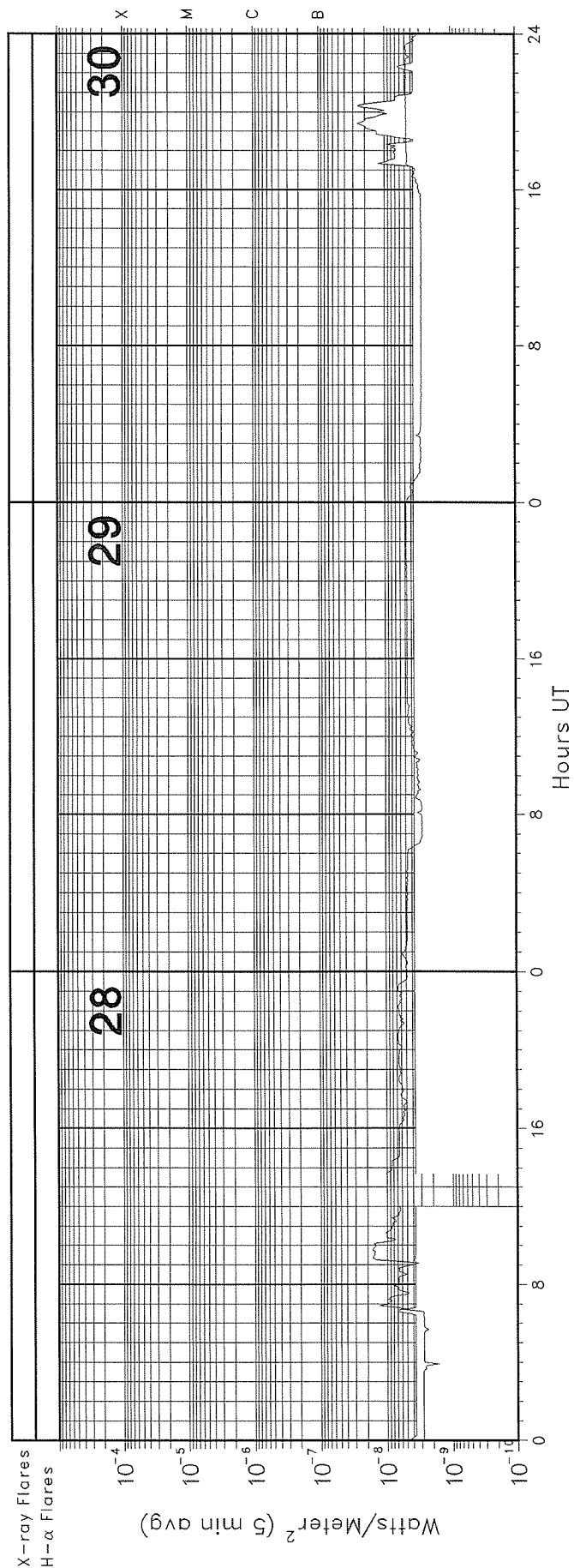
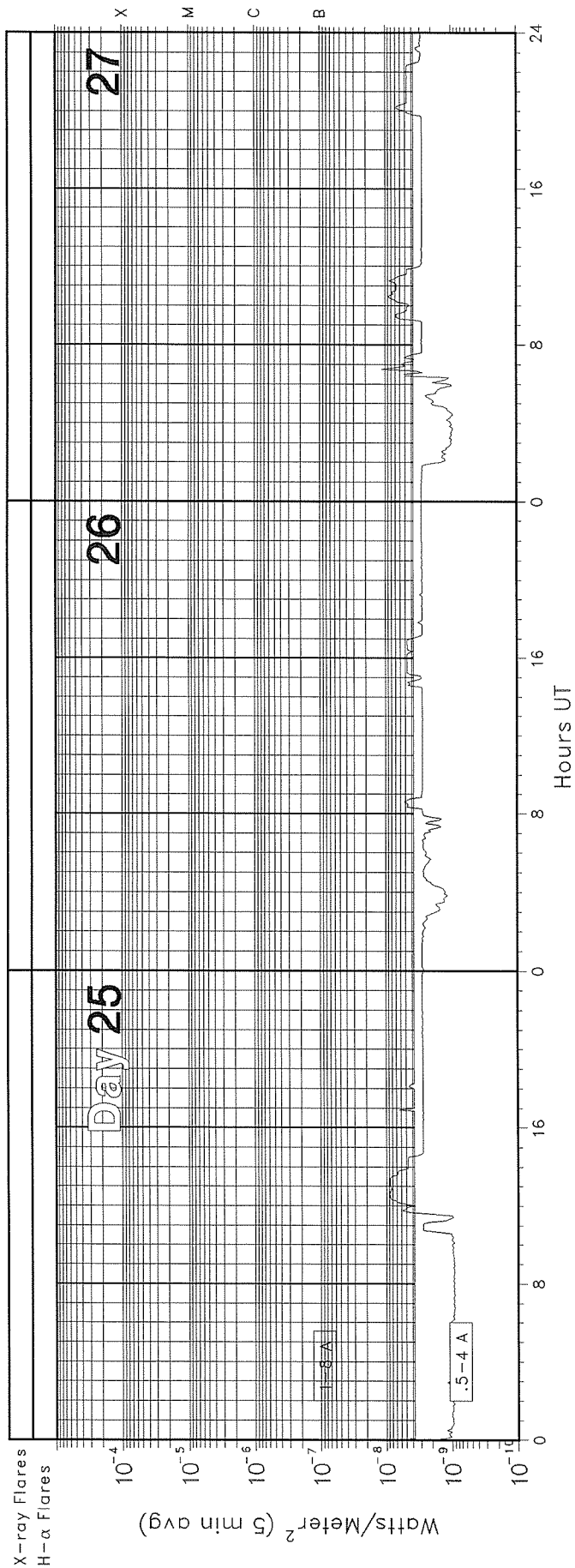
GOES X-RAY DETECTOR August 2007



GOES X-RAY DETECTOR August 2007

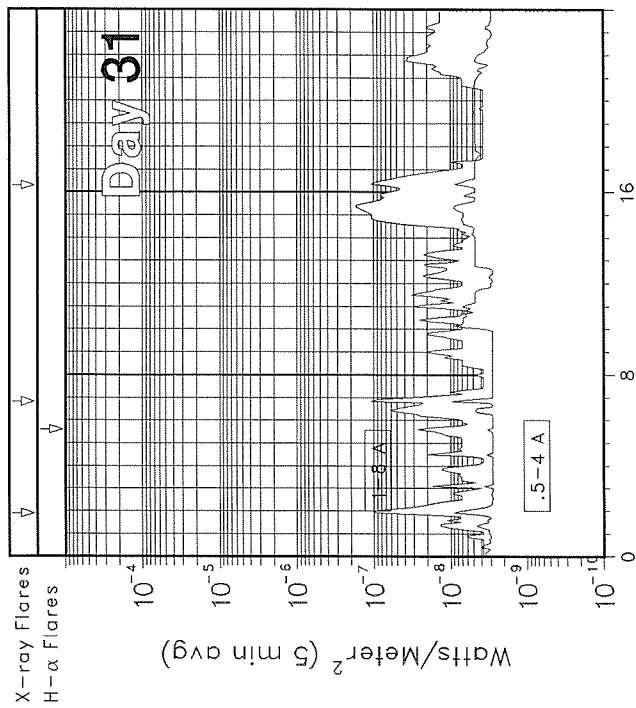


GOES X-RAY DETECTOR August 2007

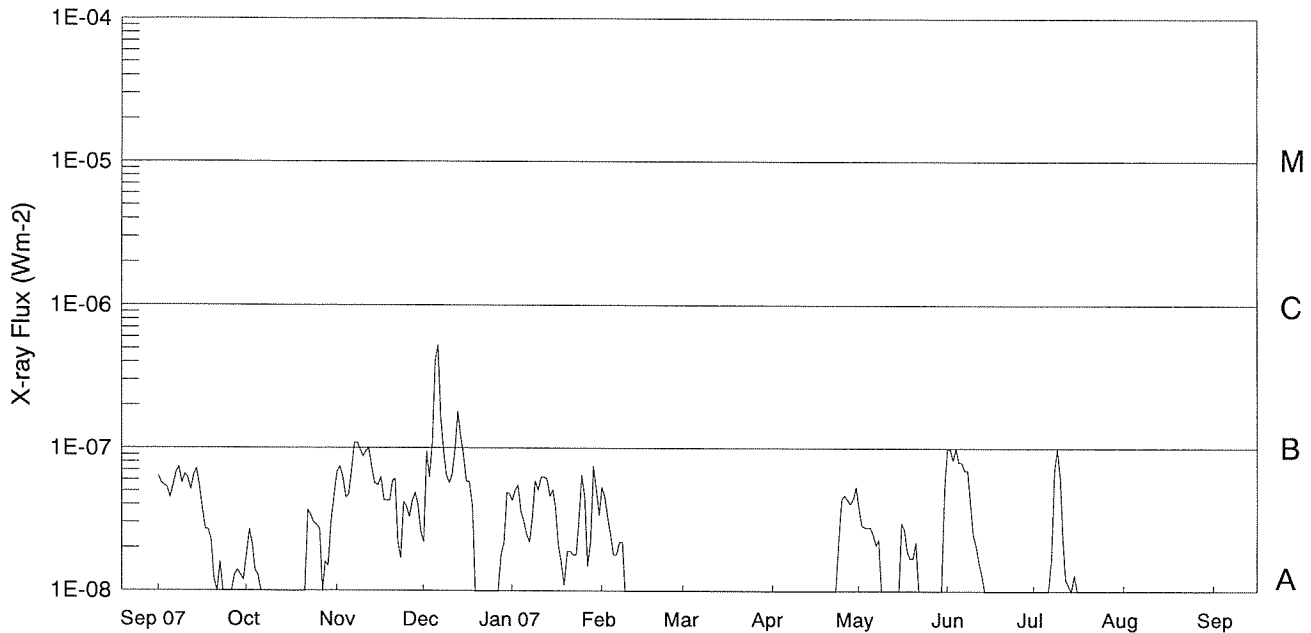


GOES X-RAY DETECTOR

August 2007



Preliminary GOES Satellite Daily X-Ray Background Sep 2006 - Aug 2007



Day	Sep 06	Oct	Nov	Dec	Jan 07	Feb	Mar	Apr	May	Jun	Jul	Aug
1	A6.4	A1.8	A6.8	A2.2	A4.3	A5.3	<A1.0	<A1.0	A3.8	B1.0	<A1.0	<A1.0
2	A5.7	A2.7	A7.5	A9.5	A5.1	A4.6	<A1.0	<A1.0	A2.9	A9.9	<A1.0	<A1.0
3	A5.5	A2.1	A6.2	A6.3	A5.5	A3.3	<A1.0	<A1.0	A2.8	A8.3	<A1.0	<A1.0
4	A5.3	A1.4	A4.5	B1.1	A3.6	A2.5	<A1.0	<A1.0	A2.8	B1.0	<A1.0	<A1.0
5	A4.5	A1.3	A4.7	B4.1	A3.1	A1.8	<A1.0	<A1.0	A2.8	A8.0	<A1.0	<A1.0
6	A5.5	<A1.0	A7.0	B5.3	A2.5	A1.8	<A1.0	<A1.0	A2.5	A8.0	<A1.0	<A1.0
7	A6.8	<A1.0	B1.1	B1.7	A2.2	A2.2	<A1.0	<A1.0	A2.1	A7.0	A1.7	<A1.0
8	A7.4	<A1.0	B1.1	A9.7	A3.2	A2.2	<A1.0	<A1.0	A2.3	A7.0	A6.9	<A1.0
9	A5.7	<A1.0	A9.8	A6.5	A5.9	<A1.0	<A1.0	<A1.0	<A1.0	A4.2	B1.0	<A1.0
10	A6.6	<A1.0	A8.8	A5.7	A5.1	<A1.0	<A1.0	<A1.0	<A1.0	A2.5	A6.3	<A1.0
11	A6.2	<A1.0	A9.6	A6.6	A6.3	<A1.0	<A1.0	<A1.0	<A1.0	A2.1	A2.4	<A1.0
12	A5.1	<A1.0	B1.0	A9.8	A6.3	<A1.0	<A1.0	<A1.0	<A1.0	A1.6	A1.2	<A1.0
13	A6.5	<A1.0	A7.5	B1.8	A6.1	<A1.0	<A1.0	<A1.0	<A1.0	A1.3	A1.1	<A1.0
14	A7.2	<A1.0	A5.7	B1.2	A4.6	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
15	A5.4	<A1.0	A5.5	A9.2	A5.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A1.3	<A1.0
16	A3.7	<A1.0	A6.3	A5.9	A3.8	<A1.0	<A1.0	<A1.0	A3.0	<A1.0	<A1.0	<A1.0
17	A2.7	<A1.0	A4.3	A5.8	A2.1	<A1.0	<A1.0	<A1.0	A2.7	<A1.0	<A1.0	<A1.0
18	A2.7	<A1.0	A4.3	A3.9	A1.6	<A1.0	<A1.0	<A1.0	A1.9	<A1.0	<A1.0	<A1.0
19	A2.3	<A1.0	A4.3	<A1.0	A1.1	<A1.0	<A1.0	<A1.0	A1.7	<A1.0	<A1.0	<A1.0
20	A1.2	<A1.0	A5.9	<A1.0	A1.9	<A1.0	<A1.0	<A1.0	A1.7	<A1.0	<A1.0	<A1.0
21	<A1.0	<A1.0	A6.1	<A1.0	A1.9	<A1.0	<A1.0	<A1.0	A2.2	<A1.0	<A1.0	<A1.0
22	A1.6	A3.7	A2.2	<A1.0	A1.8	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
23	<A1.0	A3.4	A1.7	<A1.0	A1.8	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
24	<A1.0	A3.0	A4.2	<A1.0	A3.1	<A1.0	<A1.0	A2.2	<A1.0	<A1.0	<A1.0	<A1.0
25	<A1.0	A2.9	A3.9	<A1.0	A6.5	<A1.0	<A1.0	A4.4	<A1.0	<A1.0	<A1.0	<A1.0
26	<A1.0	A2.7	A3.3	<A1.0	A4.6	<A1.0	<A1.0	A4.7	<A1.0	<A1.0	<A1.0	<A1.0
27	A1.3	<A1.0	A4.3	<A1.0	A1.5	<A1.0	<A1.0	A4.4	<A1.0	<A1.0	<A1.0	<A1.0
28	A1.4	A1.6	A4.9	A1.8	A2.2	<A1.0	<A1.0	A4.1	<A1.0	<A1.0	<A1.0	<A1.0
29	A1.3	A1.5	A4.0	A2.2	A7.5		<A1.0	A4.5	<A1.0	A1.0	<A1.0	<A1.0
30	A1.2	A3.1	A2.6	A4.9	A5.1		<A1.0	A5.4	<A1.0	<A1.0	<A1.0	<A1.0
31		A4.7		A4.8	A3.4		<A1.0		A5.1		<A1.0	<A1.0

Levels below B1.0 are unreliable.

16
Aug 07

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 2007

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	DSF	0009U	1333U	S05	W55	08	9.9	3	05	0	0	E	HOLL	0966	
14	DSF	1316	1336	S07	W65	08	9.7	2	05	0	0	E	SVTO	0966	

ADF = Active Dark Filament BSL = Bright Surge on Limb EPL = Eruptive Prominence on Limb
AFS = Arch Filament System CAP = CAP Prominence (Tandberg-Hanssen) LPS = Loops
APR = Active Prominence CRN = Coronal Rain MDP = Mound Prominence
ASR = Active Surge Region DSD = Dark Surge on Disk SDF/DSF = Sudden Disappearing Filament
BSD = Bright Surge on Disk DSF = Disappearing Solar 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.

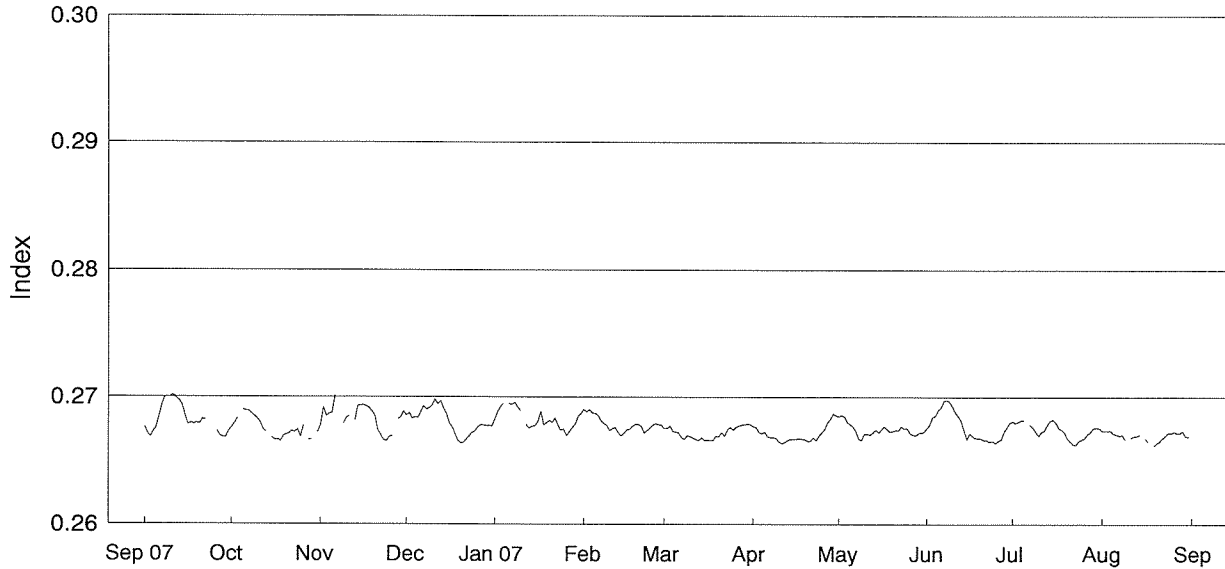
The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani HOLL = Holloman RAMY = Ramey
ATHN = Athens KHAR = Kharkov SVTO = San Vito
BUCA = Bucharest LEAR = Learmonth VORO = Voroshilov
CATA = Catania PALE = Palehua 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.

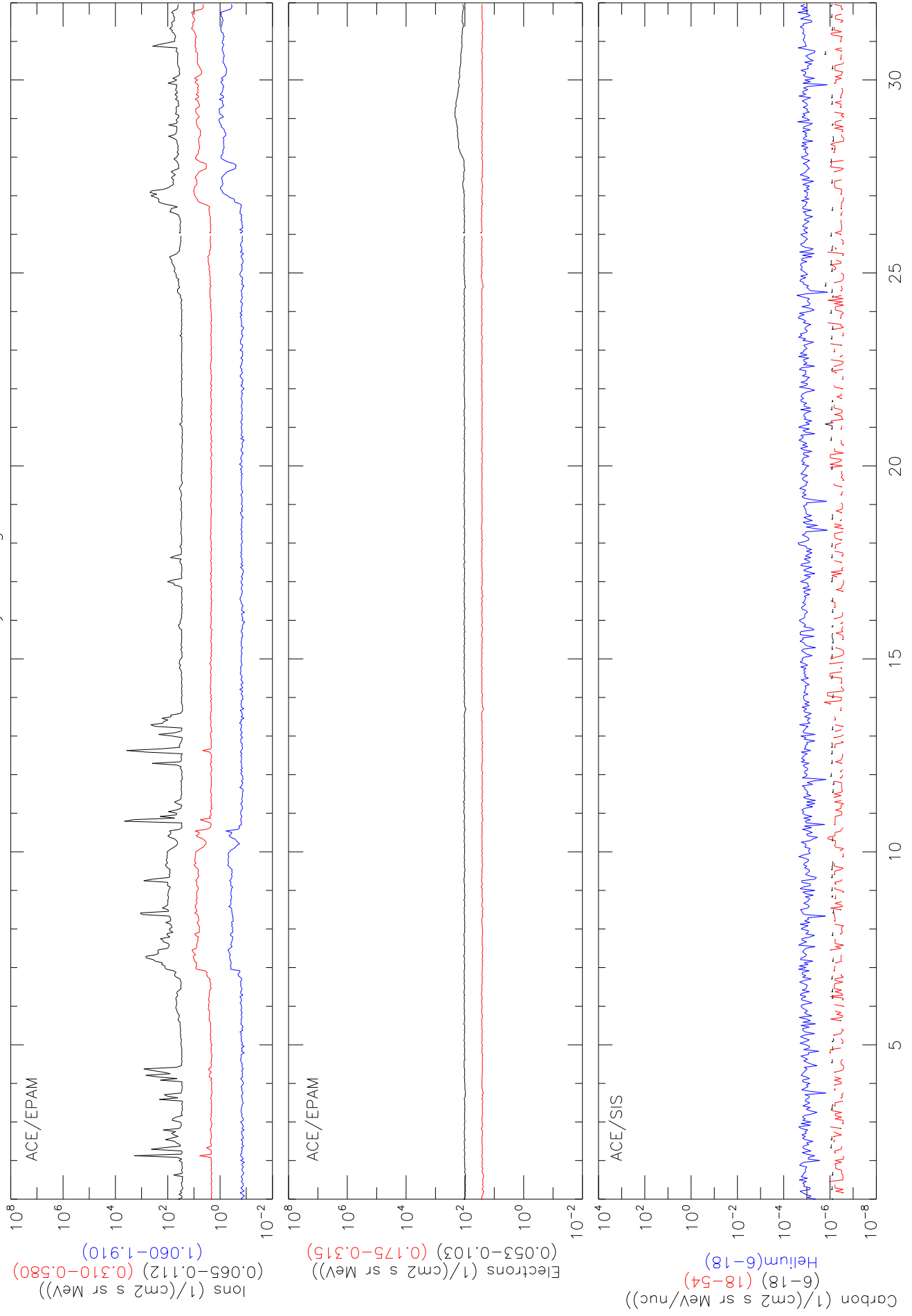
NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index Sep 2006 - Aug 2007 Version 9.1



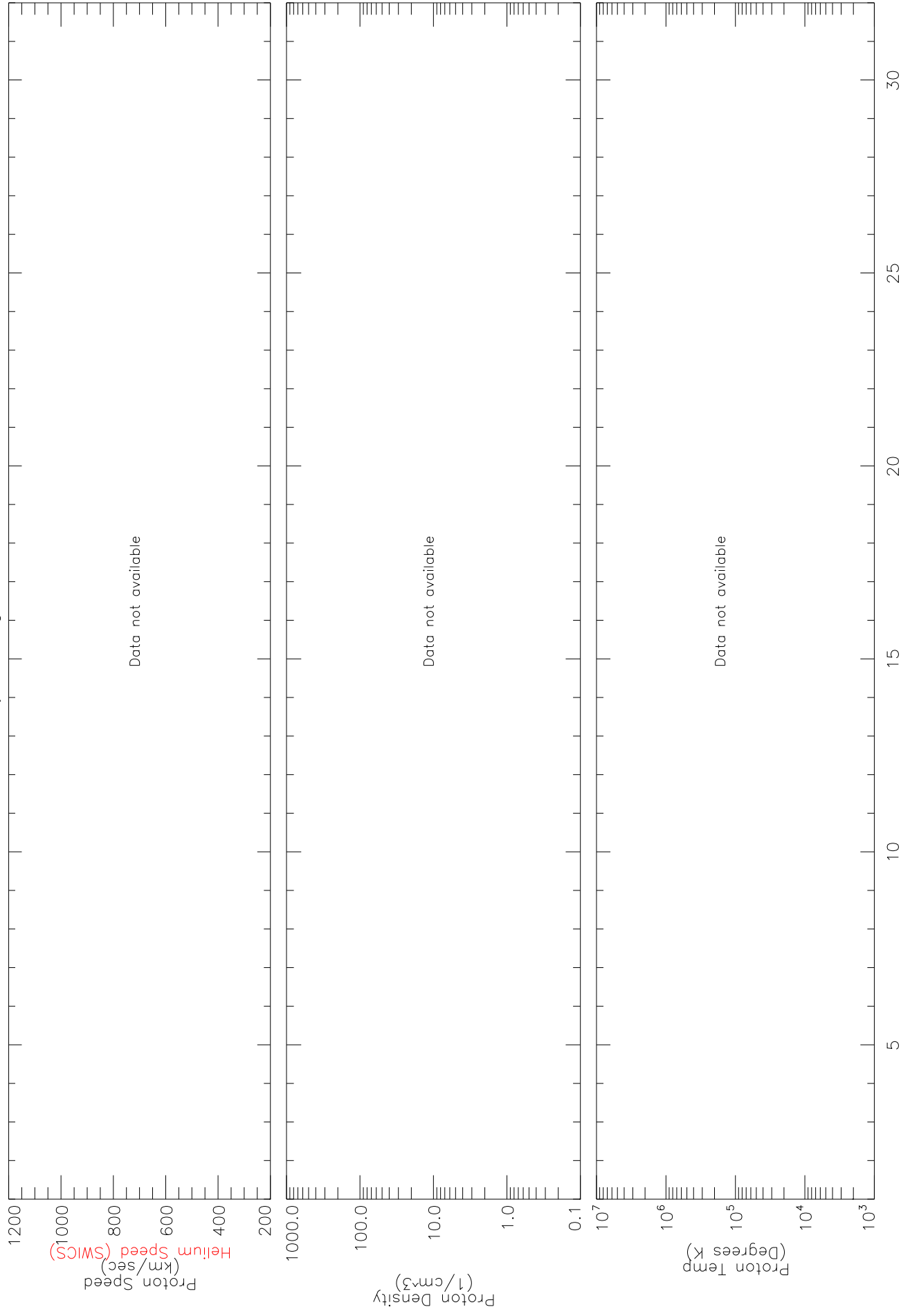
Day	Sep 06	Oct	Nov	Dec	Jan 07	Feb	Mar	Apr	May	Jun	Jul	Aug
1	0.2676	0.2676	0.2678	0.2685	0.2682	0.2691	0.2675	0.2677	0.2685	0.2676	0.2681	0.2674
2	0.2671	0.2680	0.2692	0.2687	0.2689	0.2688	0.2675	0.2676	0.2686	0.2678	0.2680	0.2674
3	0.2669	0.2683	0.2685	0.2683	0.2692	0.2690	0.2677	0.2672	0.2685	0.2684	0.2681	0.2674
4	0.2673	---	0.2687	0.2684	0.2695	0.2687	0.2673	0.2671	0.2680	0.2685	0.2682	0.2674
5	0.2676	0.2690	0.2688	0.2684	---	0.2687	0.2673	0.2673	0.2679	0.2690	0.2682	0.2672
6	0.2685	0.2689	0.2701	0.2689	0.2695	0.2685	0.2672	0.2669	0.2677	0.2692	---	0.2671
7	0.2694	0.2689	---	0.2693	0.2694	0.2681	0.2669	0.2669	0.2673	0.2697	0.2678	0.2670
8	0.2700	0.2687	---	0.2690	0.2696	0.2679	0.2667	0.2668	0.2667	0.2698	0.2677	0.2671
9	---	0.2685	0.2680	0.2691	0.2692	0.2678	0.2670	0.2668	0.2666	0.2697	0.2673	0.2667
10	0.2701	0.2683	0.2684	0.2693	0.2689	0.2674	0.2669	0.2665	0.2671	0.2693	0.2670	---
11	0.2701	0.2680	0.2685	0.2698	---	0.2675	0.2668	0.2664	0.2671	0.2688	0.2673	0.2668
12	0.2699	0.2675	---	0.2694	0.2678	0.2676	0.2667	0.2665	0.2671	0.2685	0.2674	0.2669
13	0.2697	0.2672	0.2682	0.2697	0.2676	0.2672	0.2666	0.2666	0.2672	0.2682	0.2678	0.2670
14	0.2693	---	0.2693	0.2691	0.2677	0.2670	0.2668	0.2667	0.2674	0.2674	0.2681	0.2671
15	0.2685	0.2668	0.2694	0.2686	0.2677	0.2672	0.2666	0.2667	0.2672	0.2667	0.2683	---
16	0.2678	0.2666	0.2694	0.2679	0.2681	0.2674	0.2666	0.2667	0.2675	0.2672	0.2680	0.2668
17	0.2680	0.2667	0.2693	0.2676	0.2689	0.2675	0.2666	0.2668	0.2677	0.2670	0.2676	0.2665
18	0.2679	0.2665	0.2691	0.2671	0.2678	0.2677	0.2666	0.2667	0.2675	0.2668	0.2674	---
19	0.2680	0.2669	0.2688	0.2666	0.2680	0.2679	0.2669	0.2667	0.2673	0.2668	0.2672	0.2662
20	0.2679	0.2671	0.2685	0.2664	0.2682	0.2679	0.2669	0.2666	0.2673	0.2668	0.2667	0.2664
21	0.2683	0.2671	0.2674	0.2664	0.2680	0.2677	0.2672	0.2666	0.2674	0.2666	0.2665	0.2666
22	0.2682	0.2673	0.2670	0.2667	0.2683	0.2672	0.2669	0.2668	0.2674	0.2667	0.2663	0.2668
23	---	0.2672	0.2666	0.2669	0.2678	0.2674	0.2675	0.2666	0.2677	0.2665	0.2663	0.2670
24	0.2677	0.2675	0.2665	0.2672	0.2674	0.2676	0.2676	0.2670	0.2675	0.2666	0.2666	0.2672
25	---	0.2669	0.2669	0.2673	0.2675	0.2678	0.2674	0.2672	0.2676	0.2664	0.2667	0.2672
26	0.2673	0.2678	0.2669	0.2676	0.2670	0.2679	0.2677	0.2675	0.2672	0.2666	0.2668	0.2673
27	0.2670	---	---	0.2678	0.2673	0.2678	0.2677	0.2680	0.2671	0.2667	0.2671	0.2672
28	0.2669	0.2667	0.2683	0.2678	0.2676	0.2678	0.2678	0.2683	0.2670	0.2673	0.2673	0.2672
29	0.2668	0.2667	0.2684	0.2677	0.2679		0.2678	0.2687	0.2672	0.2677	0.2676	0.2673
30	0.2673	---	0.2689	0.2678	0.2685		0.2679	0.2686	0.2672	0.2680	0.2676	0.2669
31		0.2672		0.2677	0.2687		0.2679		0.2673		0.2676	0.2669
Mean	0.2681	0.2675	0.2683	0.2681	0.2683	0.2679	0.2672	0.2671	0.2674	0.2677	0.2674	0.2670

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

Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for AUGUST 2007

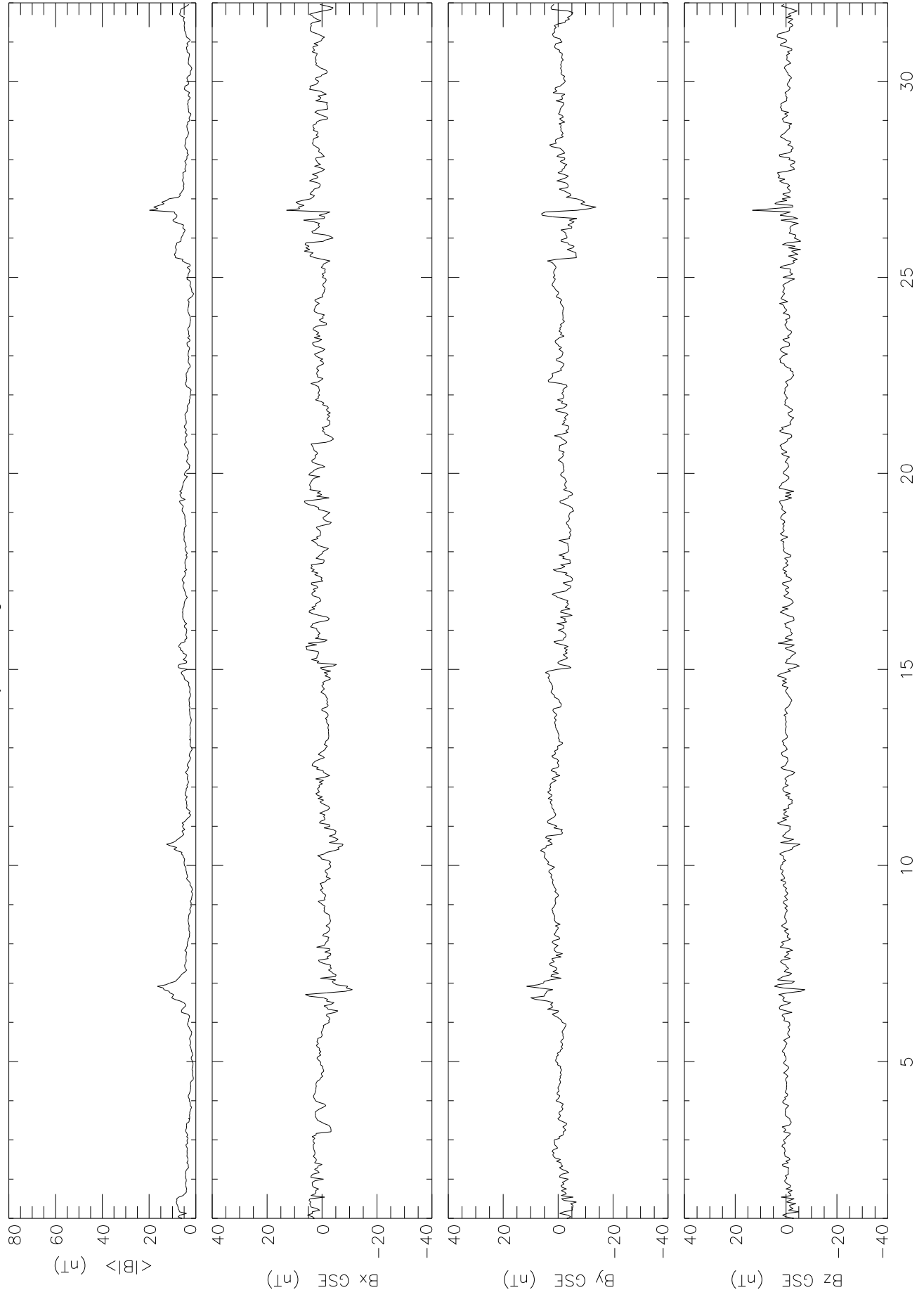


ACE LEVEL2 DATA Hourly Averages for AUGUST 2007, from SWEPAM



DAYS OF AUGUST 2007

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for AUGUST 2007, from MAG



DAYS OF AUGUST 2007

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
AUGUST 2007

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	----2nd order speed---- Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2007/08/02	03:06:05	79	62	175	0	332	384	6.4*	78	
2007/08/02	19:05:17	85	51	263	0	445	437	8.3*	83	Poor Event
2007/08/03	07:31:41	84	19	232	203	262	397	5.5*	89	Very Poor Event
2007/08/03	18:54:04	93	10	231	180	284	337	3.9*	92	Very Poor Event
2007/08/03	20:54:04	253	34	150	0	282	335	4.8*	258	Poor Event
2007/08/03	22:30:04	66	20	153	39	274	1216	65.3*	67	Very Poor; Only C2 Only 3 points
2007/08/03	23:06:04	27	76	112	56	173	232	2.1*	19	Poor Event
2007/08/04	06:54:04	272	15	113	72	152	354	5.3*	270	Very Poor Event
2007/08/04	17:30:04	259	97	230	123	346	366	4.9*	258	
2007/08/04	18:06:04	158	10	94	130	59	0	-14.2*	158	Very Poor; Only C2
2007/08/04	21:30:09	2	7	342	156	548	2067	181.6*	3	Very Poor; Only C2 Only 3 points
2007/08/05	16:54:27	159	5	559	----	----	----	-----	154	Very Poor; Only C2 Only 3 points
2007/08/05	20:58:39	0	6	434	472	395	0	-23.1*	1	Very Poor; Only C2 Only 3 points
2007/08/06	03:30:04	91	40	210	222	197	0	-2.7*	84	Very Poor; Only C2
2007/08/06	10:06:04	95	66	234	242	225	197	-0.8*	95	Poor Event
2007/08/06	16:54:04	97	54	207	219	196	152	-1.0*	94	Poor Event
2007/08/07	00:30:04	303	23	302	187	418	442	7.1*	302	Poor Event
2007/08/07	00:54:05	85	34	176	143	212	625	15.4*	90	Very Poor; Only C2
2007/08/07	11:06:06	118	20	46	36	55	228	2.1*	115	Very Poor; Only C2
2007/08/07	17:30:04	285	13	151	73	237	358	5.4*	291	Poor Event
2007/08/07	22:30:04	225	15	276	128	441	1220	62.1*	228	Very Poor; Only C2 Only 3 points
2007/08/08	03:30:17	289	19	310	38	573	744	24.6*	290	
2007/08/08	04:54:28	274	31	405	663	124	0	-51.4*	272	
2007/08/08	05:30:17	94	50	168	0	333	292	3.6*	89	Poor Event
2007/08/09	05:06:16	224	6	342	439	244	0	-67.3*	227	Very Poor; Only C2 Only 3 points
2007/08/09	06:18:17	121	16	180	182	177	172	-0.2*	116	Very Poor Event
2007/08/09	12:54:31	227	12	199	118	287	1061	46.8*	232	Very Poor; Only C2 Only 3 points;
2007/08/09	16:54:31	74	14	173	112	236	317	3.6*	78	Very Poor Event
2007/08/09	18:55:41	61	9	177	194	157	11	-1.5*	62	Very Poor Event
2007/08/10	04:30:16	119	23	148	174	116	0	-1.4*	117	Poor Event
2007/08/10	06:30:17	289	13	222	133	314	525	12.4*	291	Poor Event
2007/08/10	15:54:28	125	16	193	154	232	452	7.6*	116	Very Poor Event
2007/08/11	02:06:18	108	12	155	158	151	82	-0.9*	100	Very Poor Event
2007/08/11	04:30:17	128	12	203	164	243	490	9.1*	129	Very Poor; Only C2
2007/08/11	06:06:17	124	17	384	322	446	515	6.8*	119	
2007/08/11	12:30:16	128	13	307	219	393	533	10.5*	124	Very Poor Event
2007/08/11	13:31:54	96	17	420	494	348	0	-30.1*	100	Poor Event; Only C2
2007/08/11	17:31:26	134	12	319	183	446	722	22.0*	125	Very Poor Event
2007/08/11	18:31:26	110	16	150	152	149	117	-0.4*	107	Very Poor; Only C2
2007/08/11	23:07:13	111	20	191	54	328	461	8.6*	107	

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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
AUGUST 2007

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	---2nd order speed--- Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2007/08/12	06:30:18	122	10	297	189	404	484	9.6*	116	Very Poor Event
2007/08/12	21:22:46	116	12	232	193	272	462	8.8*	108	Very Poor Event
2007/08/13	01:31:58	346	8	439	464	414	0	-14.8*	345	Poor Event; Only C2
2007/08/13	01:54:43	109	22	184	139	232	346	4.7*	103	Very Poor Event
2007/08/13	02:30:16	246	7	294	335	253	0	-16.5*	251	Very Poor; Only C2
2007/08/13	08:06:16	116	11	199	161	239	388	5.8*	107	Very Poor Event
2007/08/13	11:54:34	35	10	673	----	----	----	-----	42	Very Poor; Only C2 Only 2 points
2007/08/13	16:30:18	243	14	214	192	236	417	5.9*	251	Very Poor; Only C2
2007/08/13	17:31:26	109	8	99	81	117	274	3.0*	108	Very Poor; Only C2
2007/08/13	17:55:45	55	11	225	312	138	0	-50.4*	61	Very Poor; Only C2
2007/08/13	21:00:10	14	5	252	308	193	0	-33.2*	18	Very Poor; Only C2 Only 3 points
2007/08/14	07:31:58	247	5	260	287	232	0	-11.3*	252	Very Poor; Only C2
2007/08/14	13:31:54	54	10	165	173	157	0	-4.7*	60	Very Poor Only C2
2007/08/14	16:30:16	272	40	309	321	296	284	-0.9*	273	Poor Event
2007/08/14	19:33:19	58	9	223	350	100	0	-48.5*	61	Very Poor; Only C2
2007/08/15	04:30:17	33	9	455	----	----	----	-----	37	Very Poor; Only C2 Only 2 points
2007/08/15	06:30:18	240	8	184	305	72	0	-63.0*	246	Very Poor; Only C2 Only 3 points
2007/08/15	12:30:17	106	15	181	175	187	288	2.2*	106	Very Poor; Only C2
2007/08/15	21:34:28	102	26	129	0	302	425	7.7*	105	Poor Event
2007/08/16	01:31:54	101	24	140	150	130	0	-1.7*	106	Poor Event; Only C2
2007/08/16	03:30:17	103	27	281	325	235	127	-3.7*	100	
2007/08/16	16:54:29	107	21	175	208	139	0	-9.2*	105	Very Poor; Only C2
2007/08/16	20:31:25	269	9	311	334	289	0	-8.9*	269	Very Poor; Only C2
2007/08/16	20:31:25	104	28	143	147	139	0	-1.0*	105	Very Poor; Only C2
2007/08/16	23:07:10	271	11	270	243	298	511	8.5*	272	Poor Event; Only C2
2007/08/17	03:30:17	84	6	220	----	----	----	-----	86	Very Poor ; Only C2 Only 2 points
2007/08/17	03:54:29	107	25	111	169	54	0	-15.9*	106	Very Poor ; Only C2
2007/08/17	05:30:18	102	33	172	217	123	0	-8.3*	98	Very Poor ; Only C2
2007/08/17	10:31:18	106	31	226	343	103	0	-11.7*	105	Poor Event
2007/08/17	12:30:17	281	17	211	150	276	614	14.9*	282	Very Poor ; Only C2
2007/08/17	15:30:16	283	13	173	202	144	0	-11.4*	282	Very Poor ; Only C2
2007/08/17	15:54:29	98	8	184	226	143	0	-18.2*	102	Very Poor ; Only C2
2007/08/17	17:31:47	108	41	364	522	207	0	-22.8*	100	
2007/08/17	20:31:26	107	37	492	613	377	0	-15.7	98	
2007/08/17	23:54:28	103	43	384	439	327	0	-9.4*	99	
2007/08/18	02:54:30	104	44	272	319	221	0	-7.7*	96	
2007/08/18	10:31:12	48	7	565	783	348	0	-123.3*	54	Poor Event; Only C2
2007/08/18	11:06:17	198	7	250	242	258	434	5.3*	201	Very Poor; Only C2 Only 3 points
2007/08/18	11:54:30	105	46	516	739	303	0	-52.0*	91	
2007/08/18	14:30:16	359	136	95	53	136	203	1.6*	13	Very Poor; Partial Halo
2007/08/18	15:54:30	93	13	93	138	42	0	-18.1*	93	Very Poor; Only C2
2007/08/19	02:54:04	50	55	292	298	285	283	-0.4*	43	Very Poor Event
2007/08/19	03:06:04	114	27	173	235	113	0	-12.9*	115	Very Poor; Only C2
2007/08/19	10:54:04	62	5	218	170	267	599	13.6*	65	Very Poor; Only C2

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
AUGUST 2007

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	
2007/08/19	12:54:04	112	24	136	72	203	326	4.9*	115	Very Poor Event
2007/08/19	16:30:06	63	12	369	352	384	513	5.8*	65	Poor Event; Only C2
2007/08/19	21:30:09	252	12	230	282	177	0	-5.1*	252	Very Poor Event
2007/08/20	10:54:04	273	21	120	105	136	266	2.6*	268	Very Poor Event;
Only C2										
2007/08/21	04:30:05	10	8	314	11	647	2664	294.5*	11	Very Poor; Only C2
Only 3 points										
2007/08/21	16:42:05	268	113	567	738	391	734	-29.9*	254	Poor Event; Only C3
the end of an event after data gap										
2007/08/21	19:54:04	258	15	284	264	306	433	5.0*	263	Poor Event
2007/08/21	20:06:04	307	65	303	143	477	688	19.2*	304	Poor Event
2007/08/21	20:58:40	247	10	353	383	322	262	-3.5*	252	Very Poor Event
2007/08/22	00:30:04	270	22	248	229	267	320	2.2*	264	Very Poor Event
2007/08/22	00:54:05	248	18	273	248	302	427	5.3*	252	Very Poor Event
2007/08/22	09:30:04	249	17	290	284	296	304	0.5*	253	Very Poor Event
2007/08/23	03:06:04	253	13	289	247	332	452	7.4*	256	Very Poor Event
2007/08/23	03:06:04	134	15	118	152	84	0	-23.5*	133	Very Poor; Only C2
Only 3 points;										
2007/08/23	03:54:05	248	18	272	244	301	382	3.6*	254	Poor Event
2007/08/23	08:42:05	250	25	192	196	188	127	-1.1*	255	Very Poor Event
2007/08/23	11:30:04	92	14	315	187	446	1334	73.8*	91	Very Poor; Only C2
2007/08/23	13:54:04	244	14	260	132	376	752	25.4*	252	Very Poor Event
2007/08/23	21:33:09	141	16	564	716	416	0	-90.2*	141	Very Poor; Only C2
2007/08/24	03:30:04	120	118	183	207	159	0	-4.5*	143	Only C2
2007/08/24	05:54:05	105	80	235	256	213	38	-2.7*	106	
2007/08/24	12:06:04	242	20	131	151	111	0	-2.1*	253	Very Poor Event
2007/08/24	15:06:05	61	9	199	148	246	368	5.3*	64	Very Poor Event
2007/08/24	19:32:13	65	13	293	292	295	321	0.9*	65	Very Poor Event
2007/08/25	00:30:04	249	19	139	137	142	153	0.2*	255	Very Poor Event
2007/08/25	00:30:04	67	40	362	302	422	480	5.8*	65	
2007/08/25	06:06:04	279	24	215	215	215	216	0.0*	280	Poor Event
2007/08/25	11:30:04	274	9	102	80	123	268	2.9*	277	Very Poor Event
2007/08/25	20:06:26	255	11	178	154	202	253	1.8*	255	Very Poor Event
2007/08/26	09:30:06	279	13	122	86	160	233	2.1*	277	Very Poor Event
2007/08/26	21:12:07	338	6	610	----	----	----	-----	336	Very Poor; Only C2
Only 2 points;										
2007/08/27	04:12:06	75	44	120	0	287	303	3.9*	70	
2007/08/27	04:36:04	253	13	273	188	368	387	4.9*	252	Very Poor Event

* Acceleration is uncertain due to either poor height measurement or a small number of height-time measurements.

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