

MAY 2006 NUMBER 741 - Part II



# Solar-Geophysical Data comprehensive reports

Data for November 2005 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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MAY 2006 NUMBER 741 - Part II

# **Solar-Geophysical Data comprehensive reports**

Data for November 2005 and Late Data

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**NATIONAL GEOPHYSICAL DATA CENTER**

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Boulder, Colorado

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# SOLAR-GEOPHYSICAL DATA

Number 741  
(Issued in Two Parts)

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The entry "735A 37" under Sep, for example, means that the sunspot drawings for Sep appear in SOLAR-GEOPHYSICAL DATA No. 735 Part I, and that they begin on page 37 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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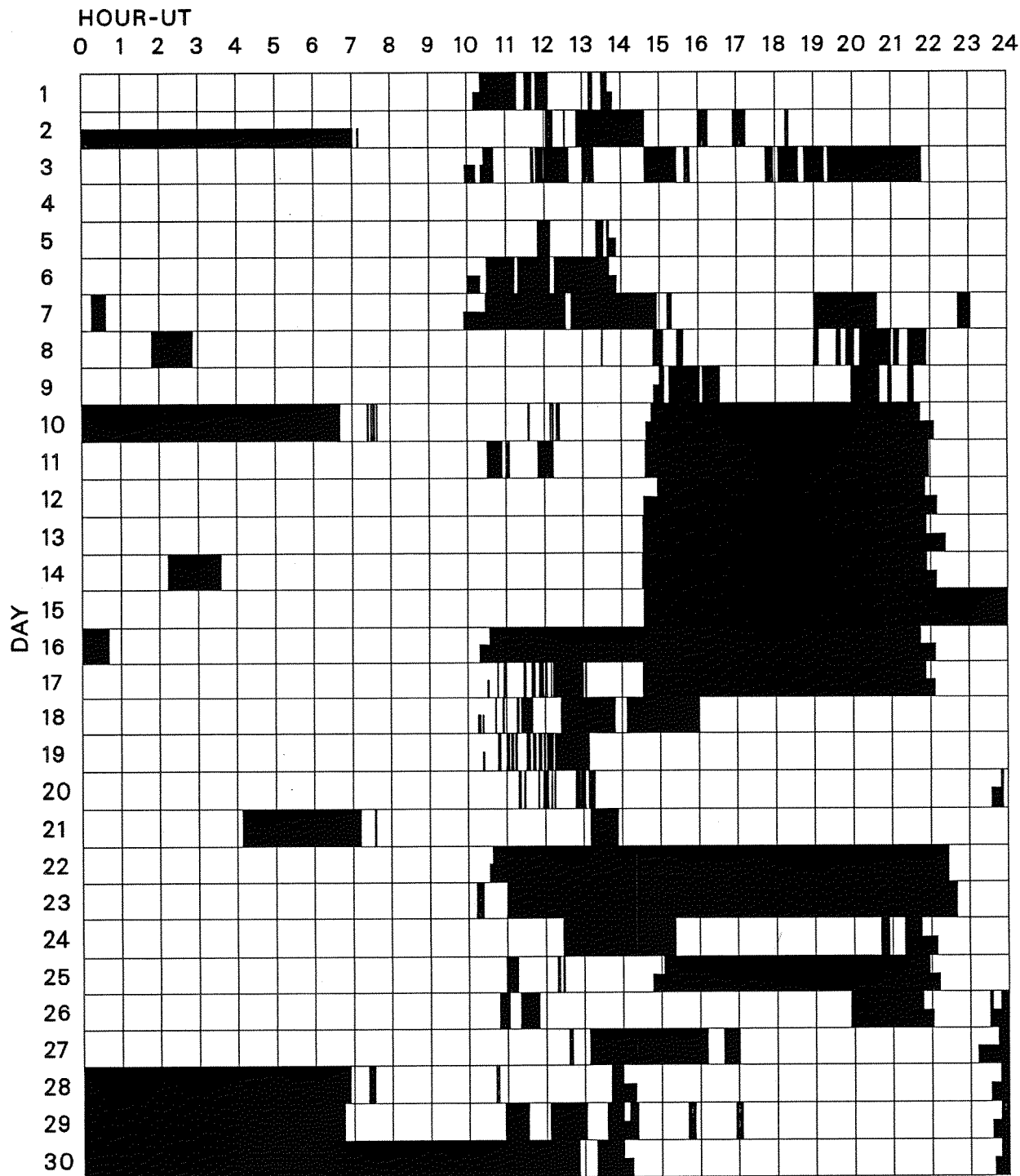






# INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 2005



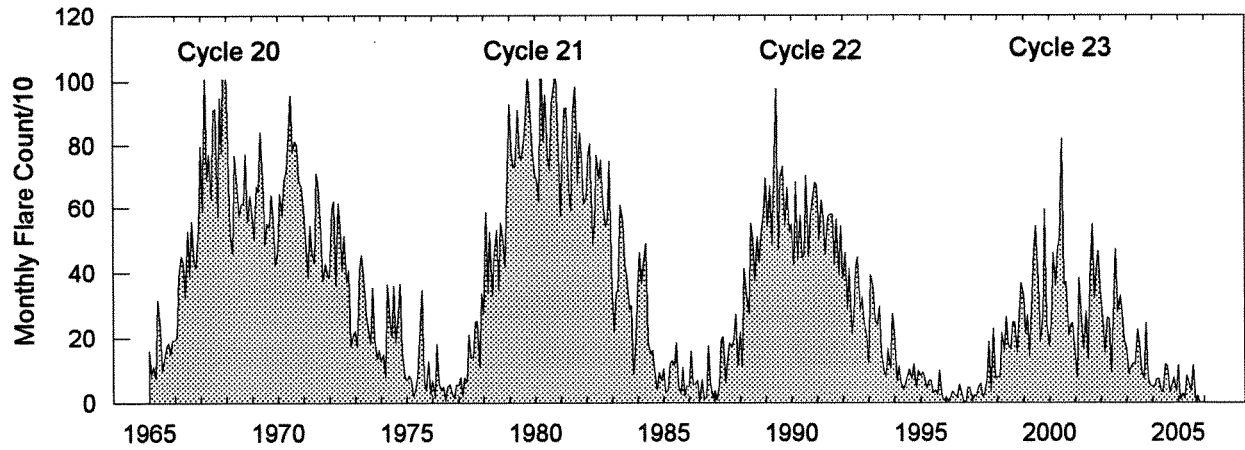
Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic); portions of a panel with only the bottom half shaded mark times of only visual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

Holloman  
Kanzelhoehe

Learmonth

San Vito

## Monthly Counts of Grouped Solar Flares Jan 1965 - Nov 2005



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		555

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  
Nov 05

NOVEMBER 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
01	33	UPIC	45 C	1125.0	1125.5	1.5				
	410	SGMR	4 S/F	2026.0	2029.0	6.0	28.0			QL=4 ST=2 TYP=3
03	15400	LEAR	8 S	0356.0E	0356.0	U	57.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	0711.0	0712.6	5.0	20.0	10.0		
06	127	TORN	27 RF	1431.3	1440.8	20.0	200.00	100.00		
07	410	LEAR	8 S	2323.0	2323.0	U	64.0			QL=4 ST=2 TYP=3
12	127	TORN	43 NS	0725.0		420.0		4.0		V=1
13	127	TORN	43 NS	0900.0		330.0		4.0		V=0
	2804	VORO	46 C	0022.8	0026.2	3.8	5.5			
	245	LEAR	8 S	0023.0	0023.0	U	69.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0023.0	0023.0	U	64.0			QL=4 ST=2 TYP=3
	2804	VORO	29 PBI	0027.8	0032.0	12.2	3.0			
	245	LEAR	8 S	0033.0	0033.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0041.0	0041.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0041.0	0041.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0102.0	0102.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0110.0	0110.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0116.0	0116.0	U	92.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0116.0	0116.0	U	74.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0127.0	0129.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0129.0	0129.0	U	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0143.0	0143.0	U	52.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0246.0	0246.0	1.0	160.0			QL=4 ST=2 TYP=3
	2804	VORO	22 GRF	0428.0	0443.7	21.4	8.1			
	127	TORN	45 C	1113.1	1114.2	3.0	90.0	20.0		
	9500	CUBA	21 GRF	1437.0E	1444.0	53.00	13.0	7.0		
	9500	CUBA	1 S	1448.7	1449.7	96.7	29.0	15.0		
8800	SGMR	8 S	1449.0	1449.0	2.0	72.0			QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1449.0	1449.0	5.0	72.0			QL=4 ST=2 TYP=3	
14	127	TORN	44 NS	0650.0E		460.00		13.0		V=1
	2804	VORO	42 SER	0356.9	0358.1	8.9	24.3			
	2804	VORO	42 SER	0356.9	0359.9	8.9	64.3			
	2800	HIRA	7 C	0357.0	0400.0	7.0	65.0			0
	1415	LEAR	8 S	0358.0	0400.0	2.0	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0359.0	0359.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0359.0	0359.0	1.0	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0359.0	0359.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0359.0	0359.0	1.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0359.0	0359.0	U	60.0			QL=4 ST=2 TYP=3
	2800	HIRA	8 S	0418.0	0420.0	8.0	170.0			0
	2804	VORO	3 S	0418.0	0419.9	5.5	156.8			
	8800	LEAR	49 GB	0419.0	0419.0	3.0	880.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0419.0	0419.0	2.0	880.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0419.0	0420.0	2.0	180.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0419.0	0419.0	2.0	480.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0658.0	0658.0	U	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0658.0	0658.0	U	210.0			QL=2 ST=2 TYP=3
	9100	GORK	4 S/F	0832.0	0834.8	7.6	21.0			
	610	SVTO	8 S	0833.0	0833.0	1.0	82.0			QL=2 ST=2 TYP=3
	900	GORK	41 F	0833.4	0835.2		16.0			
	900	GORK	41 F	0833.4	0833.8	2.5	29.0			
	2950	GORK	46 C	0833.6	0833.8	3.0	4.4			
	2950	GORK	46 C	0833.6	0834.8		8.8			
	245	SVTO	8 S	0906.0	0906.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1034.0	1047.0	16.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1202.0	1202.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1202.0	1202.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1202.0	1202.0	1.0	92.0			QL=4 ST=3 TYP=3
	245	SVTO	48 C	1414.0	1422.0	15.0	500.0			QL=4 ST=2 TYP=8
	8800	SVTO	4 S/F	1419.0	1420.0	4.0	240.0			QL=4 ST=2 TYP=3
	9500	CUBA	45 C	1419.1	1421.4		64.0	32.0		
9500	CUBA	45 C	1419.1	1420.6	5.1	163.0	81.0			
8800	SGMR	8 S	1420.0	1420.0	1.0	170.0			QL=4 ST=1 TYP=3	

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

NOVEMBER 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Int	Remarks	
14	15400	SGMR	8 S	1420.0	1420.0	1.0	220.0			QL=4 ST=1 TYP=3	
	1415	SVTO	4 S/F	1420.0	1422.0	3.0	38.0			QL=4 ST=2 TYP=3	
	2695	SVTO	4 S/F	1420.0	1422.0	4.0	85.0			QL=4 ST=2 TYP=3	
	4995	SVTO	4 S/F	1420.0	1420.0	4.0	160.0			QL=4 ST=2 TYP=3	
	15400	SVTO	4 S/F	1420.0	1420.0	3.0	180.0			QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	1420.0	1422.0	580.0	38.0			QL=4 ST=1 TYP=3	
	245	SGMR	49 GB	1422.0	1422.0	2.0	680.0			QL=4 ST=2 TYP=6	
	410	SGMR	49 GB	1422.0E	1422.0	2.0D	1500.0			QL=4 ST=2 TYP=6	
	610	SGMR	49 GB	1422.0	1422.0	U	7500.0			QL=4 ST=2 TYP=6	
	1415	SGMR	8 S	1422.0	1422.0	1.0	42.0			QL=4 ST=2 TYP=3	
	2695	SGMR	8 S	1422.0	1422.0	1.0	90.0			QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1422.0	1422.0	U	79.0			QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	1422.0	1422.0	U	64.0			QL=4 ST=2 TYP=3	
	15400	SGMR	8 S	1422.0	1422.0	U	78.0			QL=4 ST=2 TYP=3	
	410	SVTO	49 GB	1422.0	1422.0	2.0	860.0			QL=4 ST=2 TYP=6	
	610	SVTO	49 GB	1422.0	1422.0	U	6900.0			QL=4 ST=2 TYP=6	
	410	SVTO	49 GB	1422.0	1422.0	578.0	860.0			QL=4 ST=1 TYP=6	
	410	SVTO	4 S/F	1422.0	1422.0	578.0	25.0			QL=4 ST=1 TYP=3	
	245	SGMR	48 C	1610.0	1613.0	8.0	290.0			QL=4 ST=2 TYP=8	
	245	SGMR	8 S	1735.0	1735.0	U	52.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1805.0	1805.0	U	65.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1810.0	1810.0	U	61.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1836.0	1836.0	U	94.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1953.0	1953.0	U	55.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2101.0	2101.0	U	59.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2104.0	2104.0	U	98.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2109.0	2109.0	U	110.0			QL=4 ST=2 TYP=3	
	9500	CUBA	2 S/F	2155.7	2157.9	4.0D	103.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2157.0	2158.0	2.0	100.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	2157.0	2158.0	1.0	100.0				QL=4 ST=2 TYP=3
15400	PALE	8 S	2157.0	2158.0	1.0	120.0				QL=4 ST=2 TYP=3	
2695	PALE	8 S	2158.0	2158.0	U	64.0				QL=4 ST=2 TYP=3	
15	127	TORN	44 NS	0650.0E		460.0D		5.0		V=1	
	245	SVTO	43 NS	0851.0	1107.0	334.0	310.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0853.0	0853.0	907.0	85.0			QL=4 ST=3 TYP=1	
	245	SGMR	43 NS	1157.0	1206.0	723.0	150.0			QL=4 ST=1 TYP=1	
	2804	VORO	1 S	0255.2	0255.7	1.8	2.0				
	2804	VORO	41 F	0259.0	0305.5	6.5	4.2				
	2804	VORO	41 F	0259.0	0259.8	2.9	5.9				
	245	LEAR	8 S	0443.0	0443.0	U	51.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0806.0	0806.0	U	89.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0806.0	0806.0	U	100.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0831.0	0831.0	U	51.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1027.0	1027.0	U	59.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1159.0	1159.0	U	63.0			QL=4 ST=2 TYP=3	
	9500	CUBA	20 GRF	1717.0	1816.0	59.0	39.0	20.0			
	245	PALE	8 S	1746.0	1746.0	1.0	100.0			QL=4 ST=2 TYP=3	
	15400	PALE	8 S	1747.0	1747.0	U	85.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1818.0	1818.0	U	74.0			QL=4 ST=2 TYP=3		
16	127	TORN	44 NS	0650.0E		460.0D		5.0		V=2	
	245	SVTO	43 NS	0755.0	0826.0	78.0	200.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0755.0	0755.0	965.0	84.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0755.0	0826.0	965.0	200.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	1010.0	1018.0	18.0	270.0			QL=4 ST=2 TYP=1	
	900	GORK	22 GRF	0631.8	0655.3	61.2	29.0				
	900	GORK	22 GRF	0631.8	0725.4		15.0				
	245	LEAR	8 S	0655.0	0655.0	U	64.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0755.0	0755.0	U	72.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0804.0	0804.0	U	61.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0826.0	0826.0	U	220.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0908.0	0908.0	U	86.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	1010.0	1010.0	2.0	72.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	1018.0	1018.0	U	210.0			QL=4 ST=2 TYP=3	
	33	UPIC	8 S	1209.5	1209.7	0.5					
17	127	TORN	43 NS	0725.0		425.0		3.0		V=1	
	33	UPIC	8 S	1010.0	1010.2	0.5					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
17	33	UPIC	8 S	1147.5	1147.7	0.5				
	245	PALE	8 S	1745.0	1745.0	U	220.0			QL=4 ST=2 TYP=3
		SGMR	8 S	1745.0	1745.0	U	190.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	2332.0	2343.0	54.0	10.0			0
18	127	TORN	44 NS	0700.0E		440.0D		4.0		V=1
	2800	HIRA	4 S/F	0026.0	0031.0	58.0	10.0			0
		2804	VORO	23 GRF	0026.0	0030.5	160.0	14.4		
	2804	VORO	42 SER	0029.4	0034.4	5.1	7.0			
		VORO	42 SER	0029.4	0030.6	3.4	7.0			
	245	LEAR	8 S	0444.0	0444.0	U	80.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0514.0	0514.0	U	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0526.0	0526.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0618.0	0618.0	U	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0709.0	0709.0	1.0	250.0			QL=4 ST=2 TYP=3
		LEAR	8 S	0710.0	0710.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0714.0	0714.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0718.0	0718.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0725.0	0725.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0726.0	0726.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0727.0	0727.0	1.0	270.0			QL=4 ST=2 TYP=3
		LEAR	8 S	0728.0	0729.0	1.0	290.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0732.0	0733.0	1.0	73.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	0807.7	0809.7	3.0	360.0	80.0		DISTURBED
	245	SVTO	8 S	0815.0	0815.0	1.0	140.0			QL=4 ST=2 TYP=3
		LEAR	8 S	0816.0	0817.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0900.0	0900.0	U	82.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0901.0	0901.0	U	55.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1109.0	1111.0	3.0				
	245	SVTO	8 S	1129.0	1129.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1131.0	1131.0	U	79.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1137.0	1137.5	5.0				
	33	UPIC	45 C	1209.0	1210.0	2.5				
	245	SGMR	8 S	1216.0	1216.0	U	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1220.0	1220.0	U	65.0			QL=4 ST=2 TYP=3
		SVTO	8 S	1220.0	1220.0	U	84.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1232.0	1234.0	3.0	190.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1234.0	1235.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1240.0	1241.0	1.0	90.0			QL=4 ST=2 TYP=3
		SVTO	8 S	1240.0	1242.0	2.0	93.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1253.0	1253.0	U	53.0			QL=4 ST=2 TYP=3
SVTO		8 S	1253.0	1253.0	U	53.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1257.0	1257.0	U	54.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1338.0	1338.0	U	62.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1339.0	1339.0	U	63.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1351.0	1351.0	U	60.0			QL=4 ST=2 TYP=3	
	SVTO	8 S	1351.0	1351.0	U	68.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1415.0	1415.0	U	71.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1436.0	1436.0	U	52.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1439.0	1439.0	U	86.0			QL=4 ST=2 TYP=3	
	SVTO	8 S	1439.0	1439.0	U	100.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1450.0	1450.0	U	70.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1538.0	1538.0	U	51.0			QL=2 ST=2 TYP=3	
410	SGMR	8 S	1611.0	1611.0	U	54.0			QL=2 ST=2 TYP=3	
2804	VORO	2 S/F	2352.1	2354.8	12.6	10.4				
	2800	HIRA	3 S	2353.0	2355.0	15.0	10.0			0
19	245	SVTO	43 NS	0658.0	0719.0	35.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0658.0	0658.0	1022.0	74.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0658.0	0719.0	1022.0	100.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0700.0E		440.0D		9.0		V=2
	245	SGMR	43 NS	1226.0	1243.0	44.0	300.0			QL=4 ST=2 TYP=1
		SGMR	43 NS	1339.0	1449.0	621.0	1800.0			QL=4 ST=3 TYP=1
	245	PALE	8 S	0145.0	0145.0	U	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0146.0	0146.0	U	65.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0205.0	0205.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0242.0	0242.0	U	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0243.0	0243.0	U	220.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0309.0	0310.0	1.0	64.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak	Mean			
							(10 -22 W/m <sup>2</sup> Hz)				
19	245	LEAR	8 S	0311.0	0311.0	U	70.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0412.0	0412.0	U	52.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0457.0	0457.0	U	77.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0720.0	0720.0	2.0	78.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0728.0	0728.0	U	56.0			QL=4 ST=2 TYP=3	
	900	GORK	20 GRF	0737.2	0744.5	13.2	13.0				
	9100	GORK	3 S	0753.5	0754.3	1.2	24.0				
	245	SVTO	8 S	0813.0	0814.0	1.0	170.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0815.0	0815.0	U	130.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0828.0	0828.0	U	86.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0830.0	0830.0	U	55.0				QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0841.0	0841.0	U	1800.0				QL=4 ST=2 TYP=6
	410	SVTO	8 S	0841.0	0841.0	U	100.0				QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0842.0	0842.0	U	940.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0851.0	0851.0	U	600.0				QL=4 ST=2 TYP=6
	410	SVTO	8 S	0851.0	0851.0	U	60.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0852.0	0852.0	U	460.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1027.0	1027.0	U	96.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1213.0	1213.0	U	62.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1220.0	1220.0	U	64.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1226.0	1226.0	U	140.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	2031.0	2031.0	U	64.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2032.0	2032.0	U	73.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2123.0	2123.0	1.0	100.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2129.0	2129.0	2.0	380.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	2316.0	2318.0	2.0	440.0				QL=4 ST=2 TYP=3
2800	HIRA	7 C	2318.0	2318.0	1.0	15.0				0	
410	PALE	8 S	2318.0	2318.0	1.0	130.0				QL=4 ST=2 TYP=3	
20	127	TORN	44 NS	0700.0E		440.0D		9.0		V=2	
	245	SGMR	43 NS	1203.0	1335.0	512.0	350.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1203.0	1205.0	717.0	81.0			QL=4 ST=1 TYP=1	
	410	SGMR	43 NS	1850.0	1850.0	53.0	63.0			QL=4 ST=2 TYP=1	
	410	SGMR	43 NS	1850.0	1853.0	310.0	63.0			QL=4 ST=1 TYP=1	
	245	PALE	43 NS	2100.0	2101.0	392.0	130.0			QL=4 ST=2 TYP=1	
	410	PALE	48 C	0056.0	0057.0	3.0	170.0			QL=4 ST=2 TYP=8	
	9100	GORK	1 S	0726.2	0727.2	2.4	11.0				
	900	GORK	40 F	0726.5	0726.7	1.5	37.0				
21	127	TORN	44 NS	0700.0E		440.0D		8.0		V=1	
	245	SGMR	43 NS	1205.0	1246.0U	95.0	110.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1205.0	1218.0U	715.0	68.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1205.0	1227.0U	715.0	94.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1205.0	1246.0U	715.0	110.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	1218.0	1246.0	62.0	160.0			QL=4 ST=2 TYP=1	
	245	LEAR	8 S	0511.0	0511.0	U	79.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1026.0	1026.0	U	57.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1358.0	1359.0	1.0	250.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1359.0	1359.0	U	320.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	2227.0	2228.0	1.0	320.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2249.0	2249.0	U	54.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2321.0	2321.0	U	81.0			QL=4 ST=2 TYP=3	
22	127	TORN	43 NS	0720.0		420.0		3.0		V=1	
	245	PALE	43 NS	2326.0	0110.0	172.0	110.0			QL=4 ST=2 TYP=1	
	245	LEAR	8 S	0414.0	0414.0	U	100.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0422.0	0422.0	U	140.0			QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	1327.0	1328.0	4.0	89.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1348.0	1349.0	1.0	68.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1348.0	1348.0	U	68.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1654.0	1654.0	U	70.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1700.0	1700.0	U	90.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1736.0	1736.0	U	63.0			QL=4 ST=2 TYP=3	
	410	SGMR	48 C	1952.0	1955.0	3.0	78.0			QL=2 ST=3 TYP=8	
	410	SGMR	48 C	1952.0	1955.0	3.0	78.0			QL=4 ST=2 TYP=8	
	410	SGMR	8 S	1958.0	1959.0	2.0	170.0			QL=2 ST=2 TYP=3	
	410	SGMR	4 S/F	2003.0	2005.0	4.0	190.0			QL=2 ST=2 TYP=3	
410	SGMR	8 S	2014.0	2015.0	1.0	70.0			QL=2 ST=2 TYP=3		

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak	Mean		
23	127 TORN	44 NS	0710.0E		430.0D		6.0		V=2
	245 PALE	8 S	0055.0	0055.0	1.0	210.0			QL=4 ST=2 TYP=3
	2804 VORO	4 S/F	0322.6	0324.1	5.6	51.4			
	2800 HIRA	4 S/F	0323.0	0324.0	6.0	40.0			0
24	15400 LEAR	8 S	0355.0E	0355.0U	U	71.0			QL=4 ST=2 TYP=3
25	245 SVTO	43 NS	0814.0	0817.0	46.0	190.0			QL=4 ST=3 TYP=1
	245 LEAR	8 S	0638.0	0638.0	U	79.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0638.0	0638.0	1.0	95.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0709.0	0709.0	U	53.0			QL=4 ST=2 TYP=3
	245 LEAR	48 C	0814.0	0817.0	5.0	190.0			QL=4 ST=2 TYP=8
	245 LEAR	8 S	0823.0	0823.0	U	160.0			QL=4 ST=2 TYP=3
	610 SVTO	48 C	0851.0	0857.0	8.0	270.0			QL=4 ST=2 TYP=8
	245 SVTO	8 S	0859.0	0859.0	U	84.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1246.0	1246.0	U	54.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1246.0	1246.0	U	59.0			QL=4 ST=2 TYP=3
410 SGMR	8 S	1724.0	1724.0	U	60.0			QL=4 ST=2 TYP=3	
26	127 TORN	44 NS	0720.0E		420.0D		22.0		V=1
	245 SVTO	4 S/F	0657.0	0658.0	8.0	62.0			QL=4 ST=2 TYP=3
	410 SVTO	4 S/F	0657.0	0658.0	7.0	76.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0658.0	0658.0	U	51.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0710.0	0712.0	2.0	76.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0752.0	0752.0	U	78.0			QL=4 ST=2 TYP=3
28	127 TORN	43 NS	0830.0		280.0		2.0		V=0
	410 PALE	8 S	1727.0	1727.0	U	120.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	1731.0	1731.0	U	140.0			QL=4 ST=2 TYP=3
29	2800 PENT	46 C	1652.6	1656.0	26.0U	56.0			

Reports are received routinely from the following observatories:

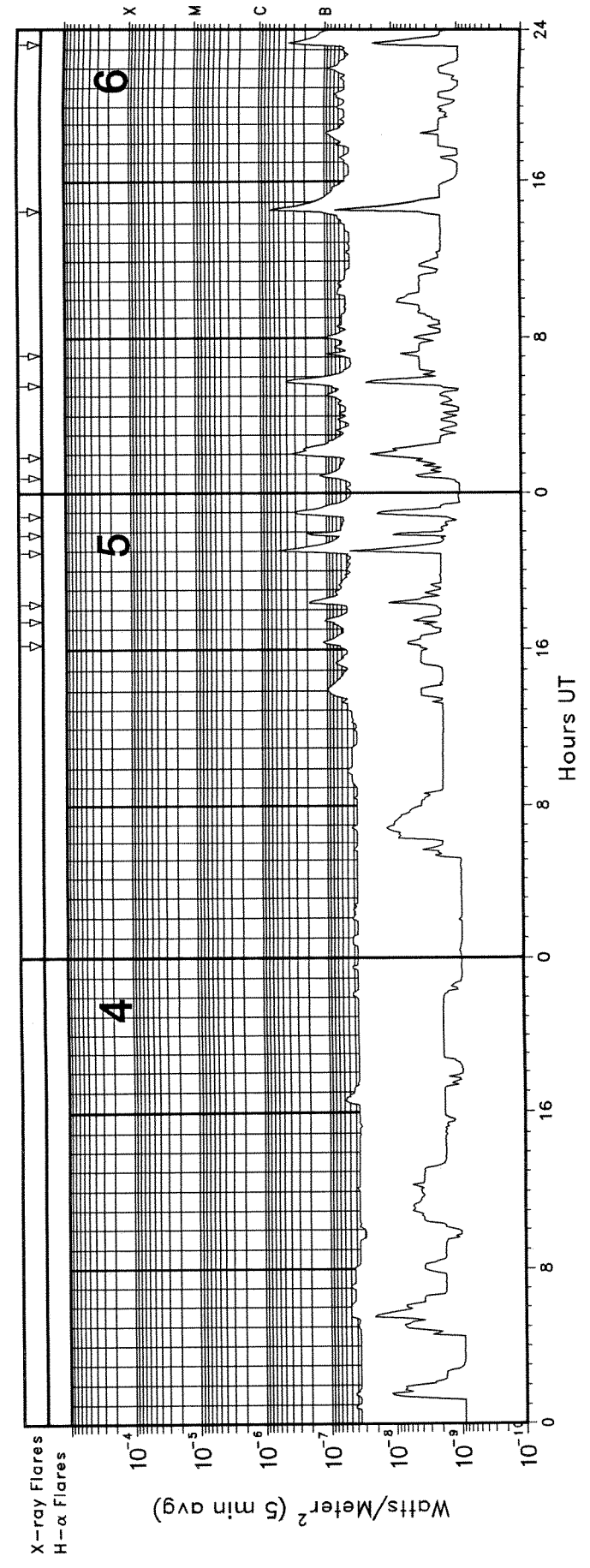
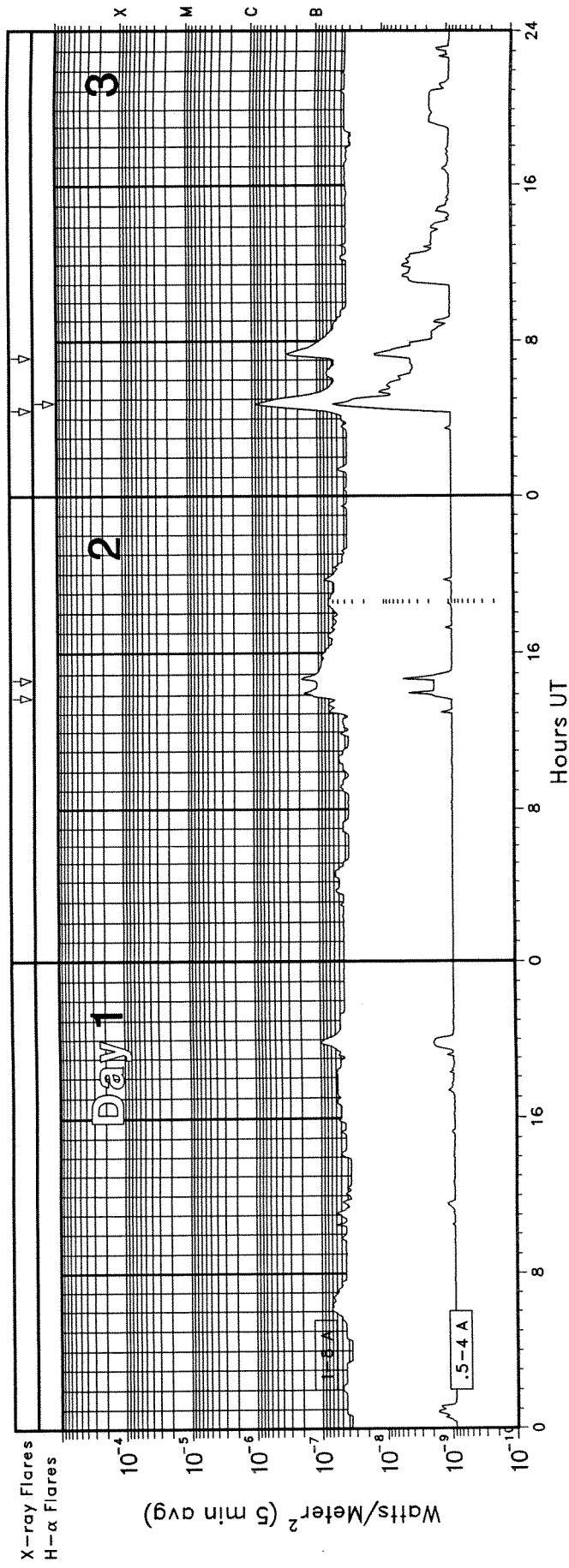
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraio	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN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

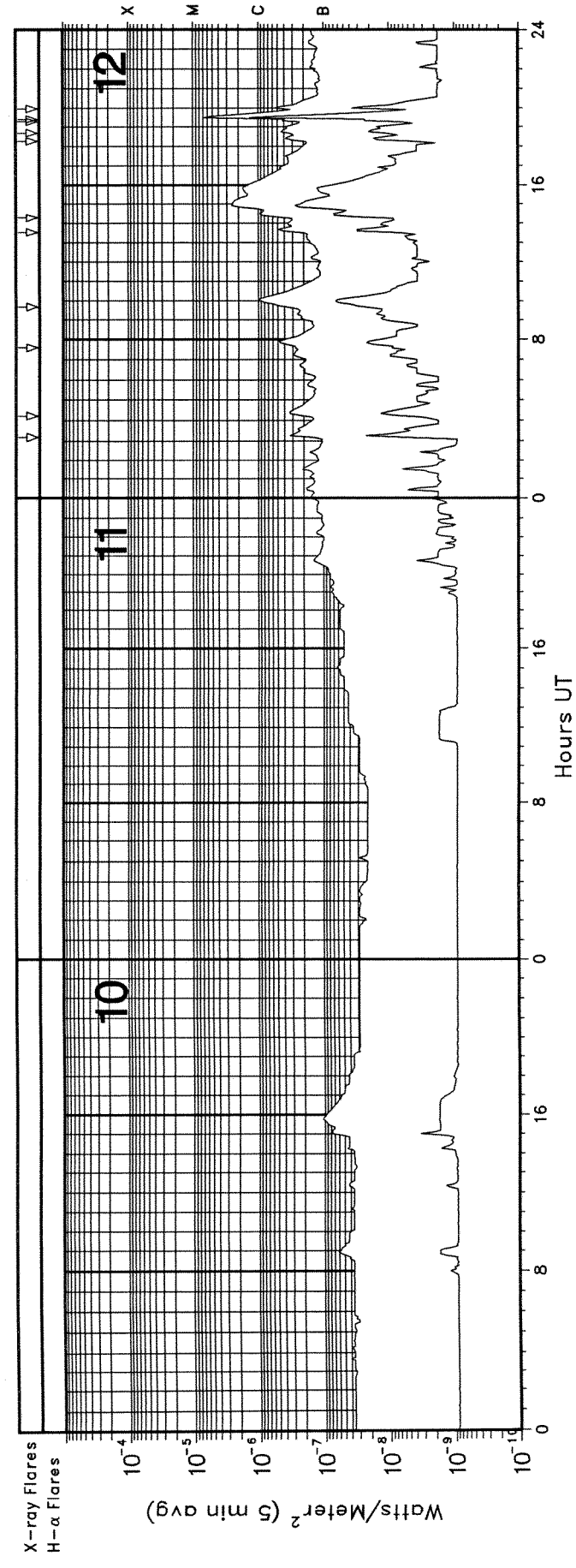
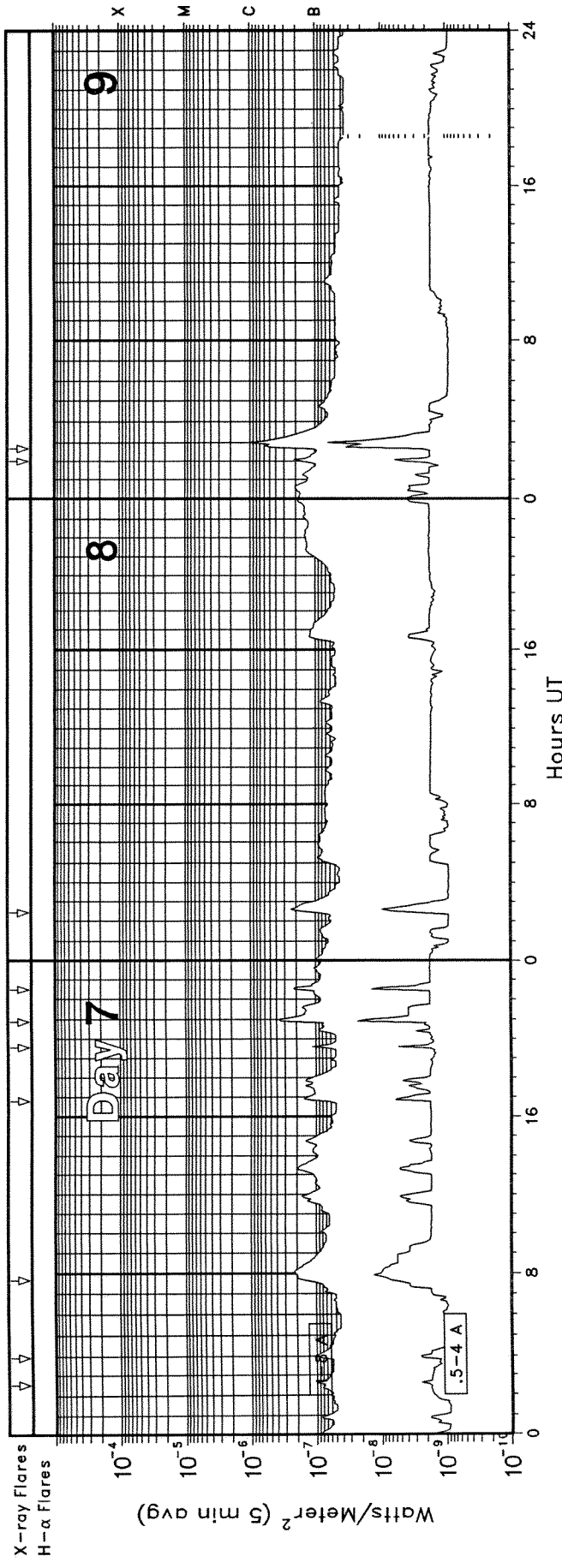
# GOES X-RAY DETECTOR November 2005



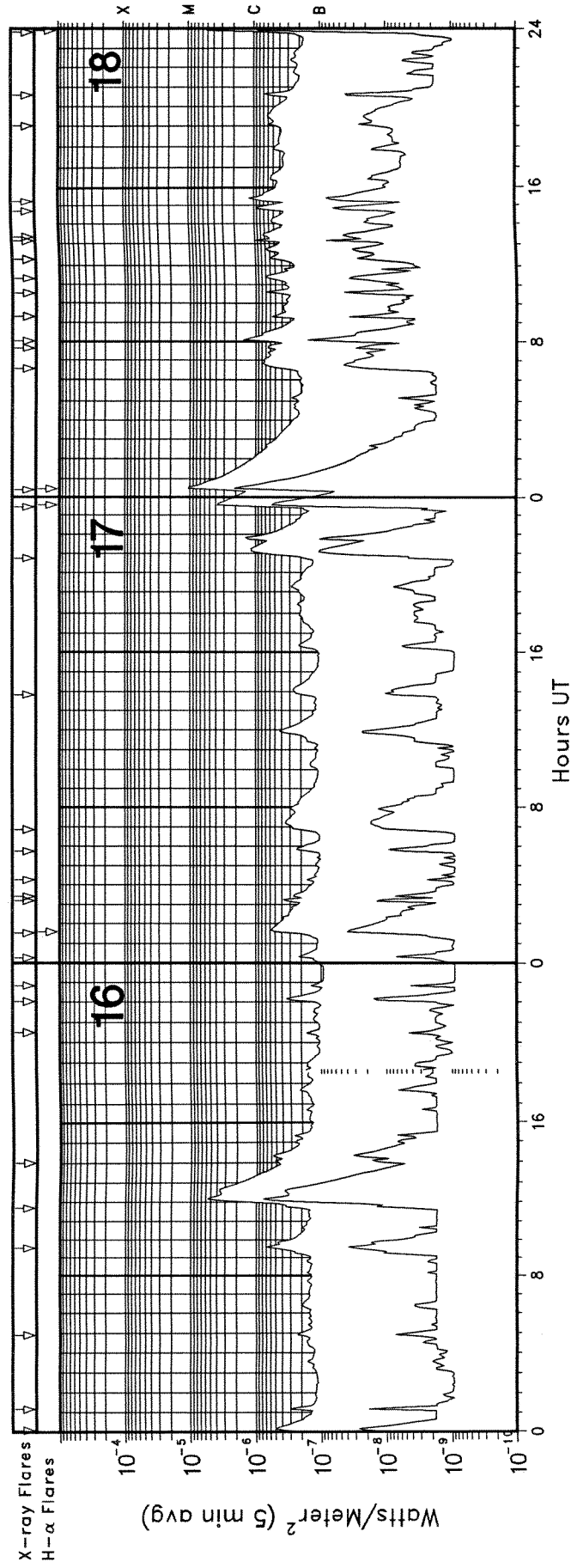
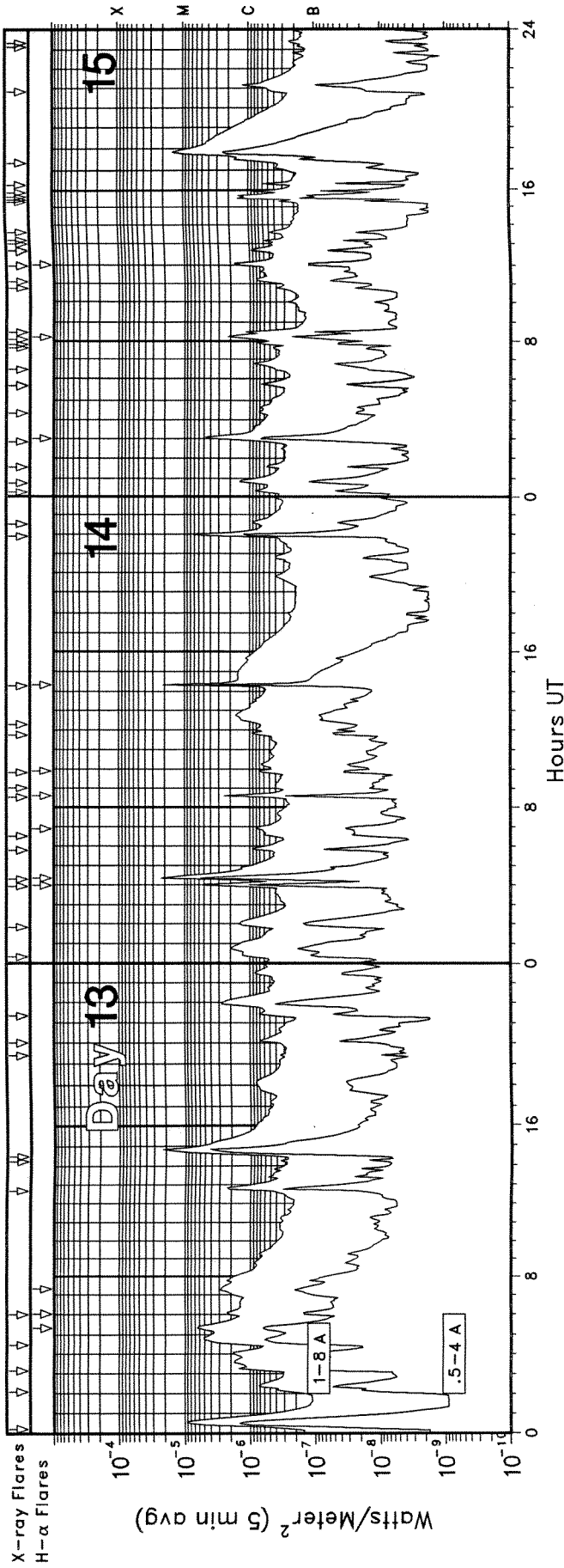


# GOES X-RAY DETECTOR

## November 2005

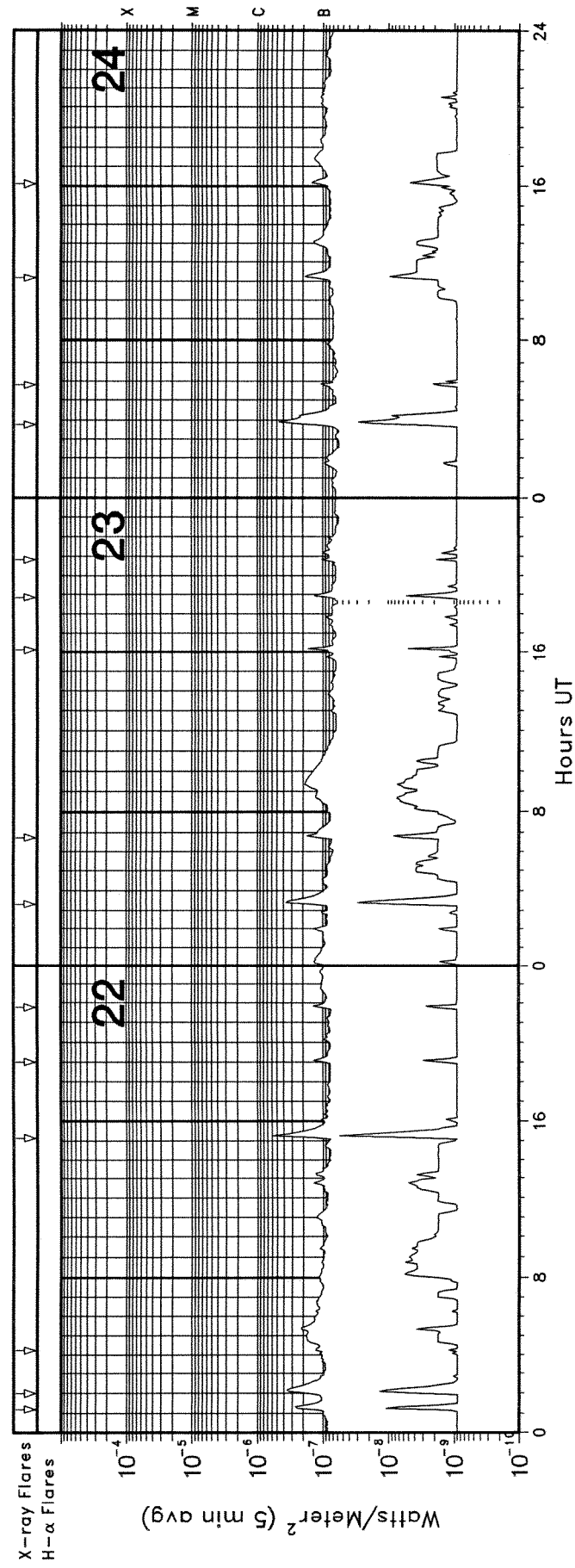
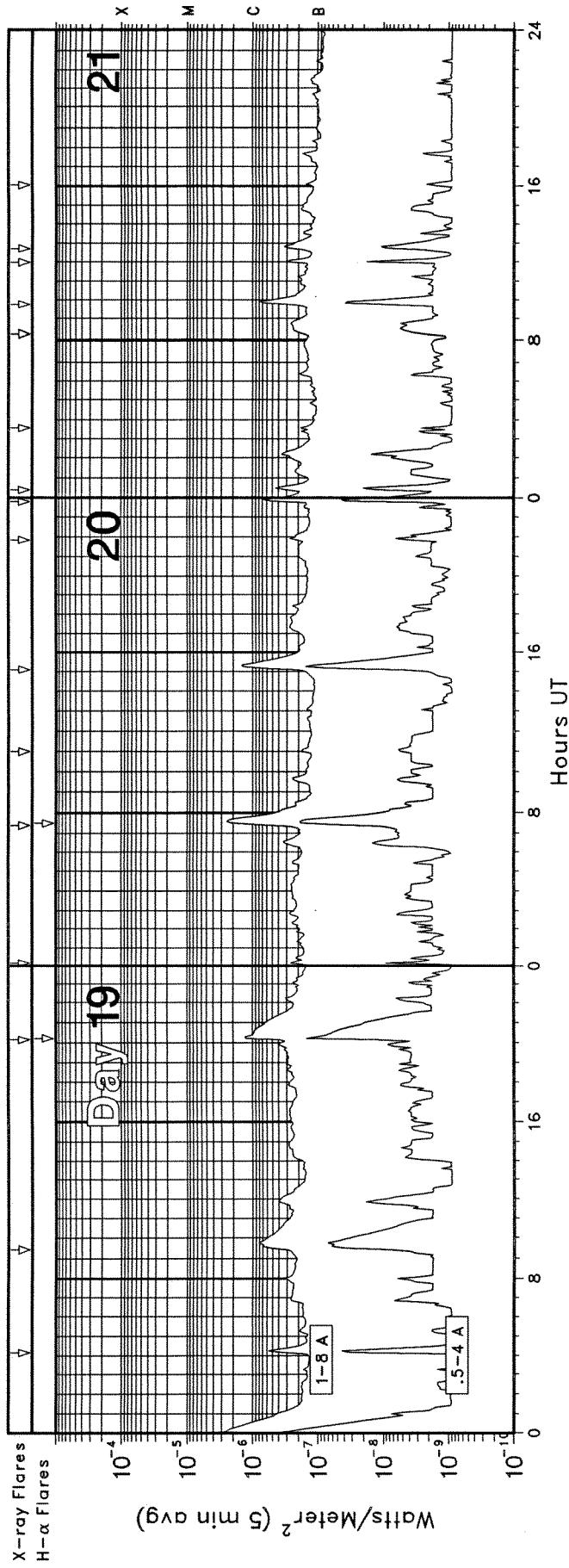


# GOES X-RAY DETECTOR November 2005

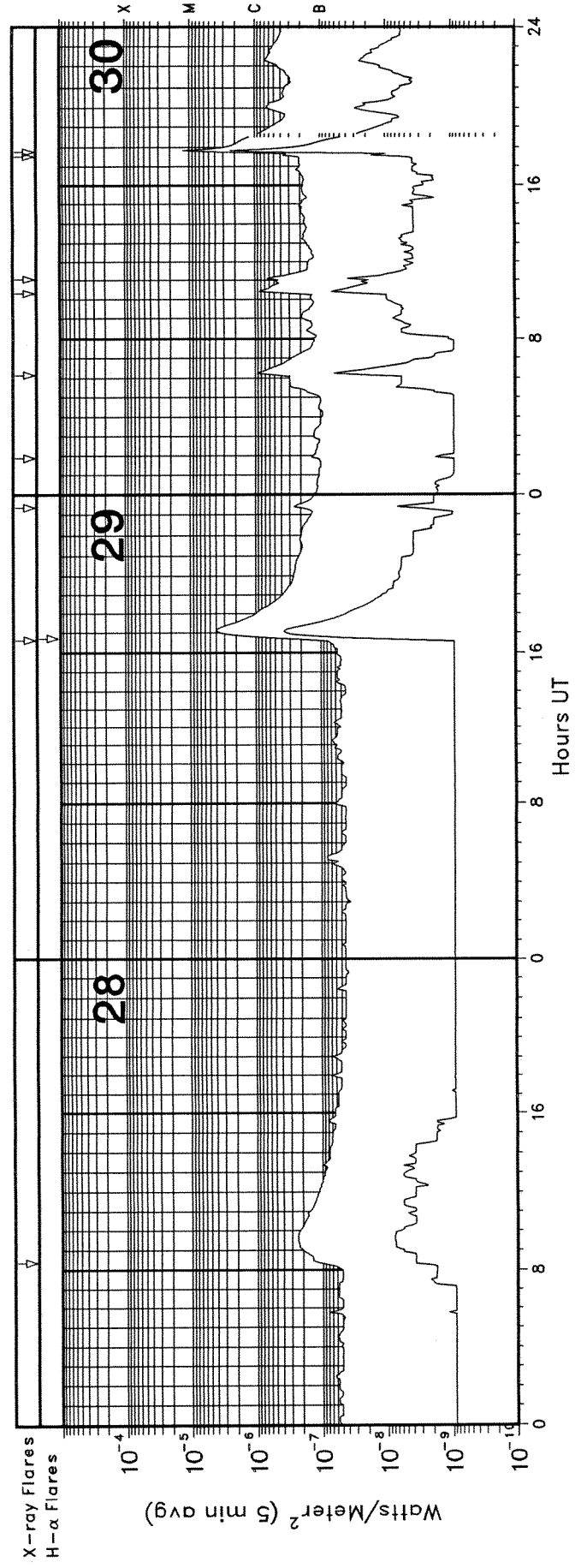
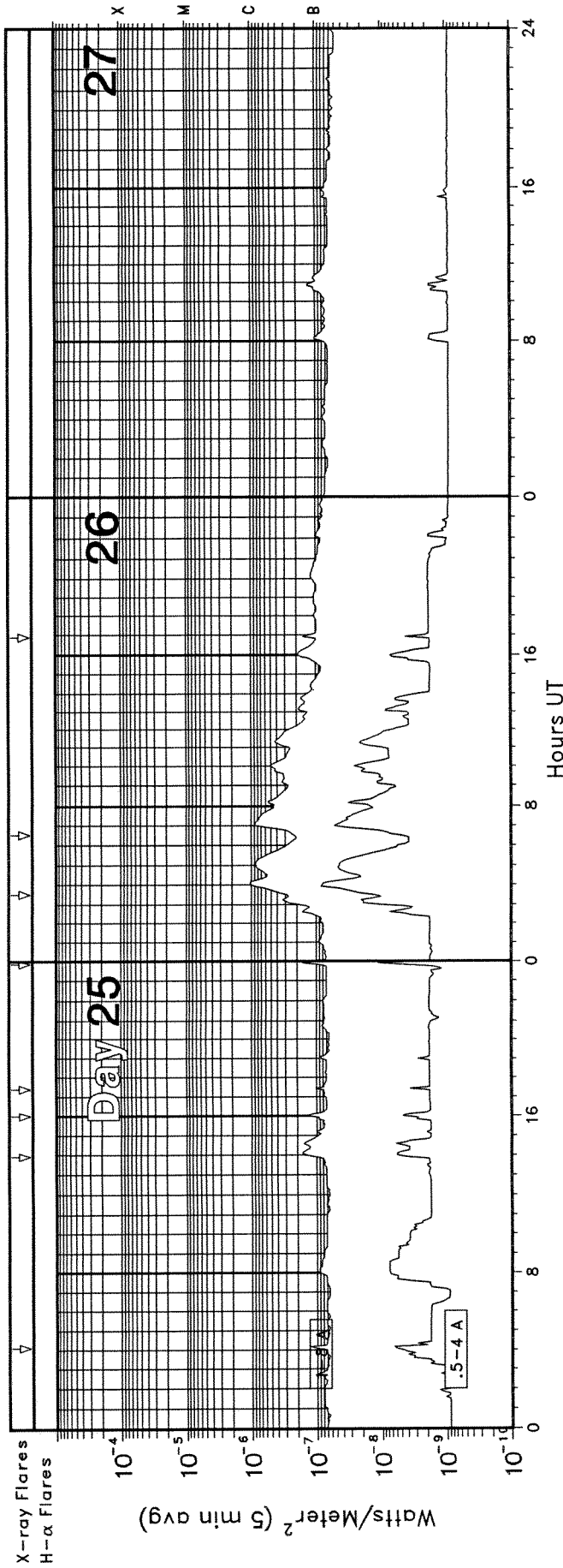


# GOES X-RAY DETECTOR

November 2005

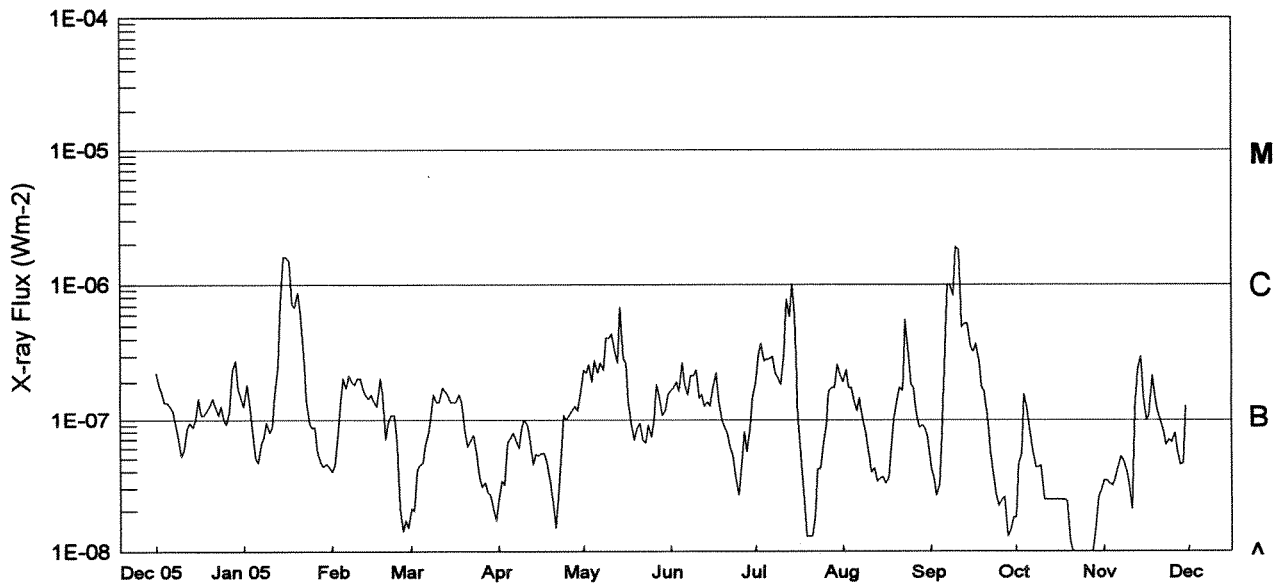


# GOES X-RAY DETECTOR November 2005



# Preliminary GOES Satellite Daily X-Ray Background Dec 2004 - Nov 2005

19  
Nov 05



Day	Dec 04	Jan 05	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	B2.3	B1.3	A4.0	A2.1	A2.5	B2.4	B1.7	B2.0	B2.0	A4.4	A1.8	A3.5
2	B1.9	B1.9	A4.5	A2.0	A3.4	B2.3	B1.8	B3.1	B2.4	A3.7	A4.6	A3.5
3	B1.7	B1.4	A7.6	A4.1	A3.2	B2.6	B2.0	B3.7	B1.8	A2.7	A5.5	A3.3
4	B1.4	A8.3	B1.3	A4.5	A6.6	B2.0	B1.7	B2.8	B1.8	A3.2	B1.6	A3.2
5	B1.4	A5.0	B2.1	A4.7	A7.1	B2.8	B2.7	B2.9	B1.4	A7.6	B1.3	A3.6
6	B1.3	A4.7	B1.8	A6.4	A7.8	B2.3	B1.9	B2.9	B1.2	B3.4	A8.0	A4.3
7	B1.2	A6.5	B2.2	A7.8	A6.9	B2.7	B1.6	B3.0	B1.5	C1.0	A5.9	A5.2
8	A9.2	A7.3	B2.0	B1.1	A6.1	B2.4	B2.2	B2.3	B1.0	C1.0	A4.4	A4.9
9	A6.8	A9.5	B1.9	B1.6	A8.5	B4.1	B2.2	B2.1	A8.1	B8.3	A4.4	A4.1
10	A5.2	A7.9	B2.1	B1.4	B1.0	B4.1	B2.4	B1.9	A5.5	C1.9	A4.5	A3.1
11	A5.8	A8.6	B2.1	B1.4	A9.2	B4.4	B1.5	B3.2	A4.0	C1.8	A2.5	A2.1
12	A8.5	B1.6	B1.8	B1.8	A6.9	B3.4	B1.6	B7.8	A4.3	B4.9	A2.5	B1.2
13	A9.5	B2.6	B1.6	B1.7	A4.6	B2.7	B1.3	B5.8	A3.4	B5.2	A2.5	B2.4
14	A8.7	B7.3	B1.5	B1.6	A5.4	B6.8	B1.4	C1.0	A3.6	B5.2	A2.5	B3.0
15	B1.0	C1.6	B1.6	B1.4	A5.3	B2.9	B1.3	B5.9	A3.7	B3.5	A2.5	B1.6
16	B1.5	C1.6	B1.4	B1.4	A5.5	B2.7	B1.8	B1.0	A3.3	B3.3	A2.5	B1.0
17	B1.1	C1.5	B1.3	B1.4	A5.5	B1.4	B2.3	A5.4	A3.6	B3.7	A2.5	B1.1
18	B1.1	B7.1	B2.1	B1.6	A4.8	A8.8	B1.5	A2.9	A6.1	B2.8	A2.5	B2.2
19	B1.2	B6.8	B1.6	B1.4	A3.5	A6.9	B1.0	A1.3	B1.0	B1.8	A2.4	B1.6
20	B1.3	B8.7	A7.0	A7.7	A2.5	A8.4	A8.8	A1.3	B1.4	B1.7	A1.2	B1.2
21	B1.5	B6.2	A9.9	A6.2	A1.5	A9.4	A7.8	A1.3	B1.8	B1.1	<A1.0	A9.8
22	B1.3	B3.0	B1.1	A6.9	A2.6	A6.9	A6.1	A1.8	B1.7	A5.9	<A1.0	A8.2
23	B1.1	B1.5	B1.1	A7.5	A5.5	A6.6	A5.3	A4.2	B5.5	A3.8	<A1.0	A6.4
24	B1.3	A9.3	A6.4	A5.8	B1.1	A9.1	A3.4	A4.3	B3.5	A2.7	<A1.0	A7.0
25	B1.0	A8.6	A2.1	A3.7	B1.0	A7.3	A2.7	A6.3	B1.9	A2.2	<A1.0	A6.7
26	A9.2	A8.7	A1.4	A3.1	B1.1	A9.9	A4.8	A8.9	B1.8	A2.5	<A1.0	A7.8
27	B1.2	A5.6	A1.7	A3.3	B1.2	B1.9	A8.0	B1.7	B1.1	A2.6	<A1.0	A5.7
28	B2.4	A4.7	A1.5	A2.8	B1.3	B1.5	A5.7	B1.8	A8.7	A1.3	<A1.0	A4.6
29	B2.8	A4.4		A2.7	B1.2	B1.1	A8.6	B1.8	A9.1	A1.4	A1.4	A4.7
30	B1.8	A4.6		A2.0	B1.6	B1.2	B1.5	B2.6	A8.5	A1.8	A2.6	B1.3
31	B1.5	A4.4		A1.7		B1.6		B2.2	A7.1		A2.9	

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

NOVEMBER 2005

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
02	DSF	2115U	1437U	N29	W90	10	26.9		32	0	0	E	HOLL		
06	DSF	1643	2247	S11	E00	11	6.7	3	06	0	0	E	HOLL		
16	DSF	1033U	2136U	N12	W25	11	14.5			0	0	E	LEAR		

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.

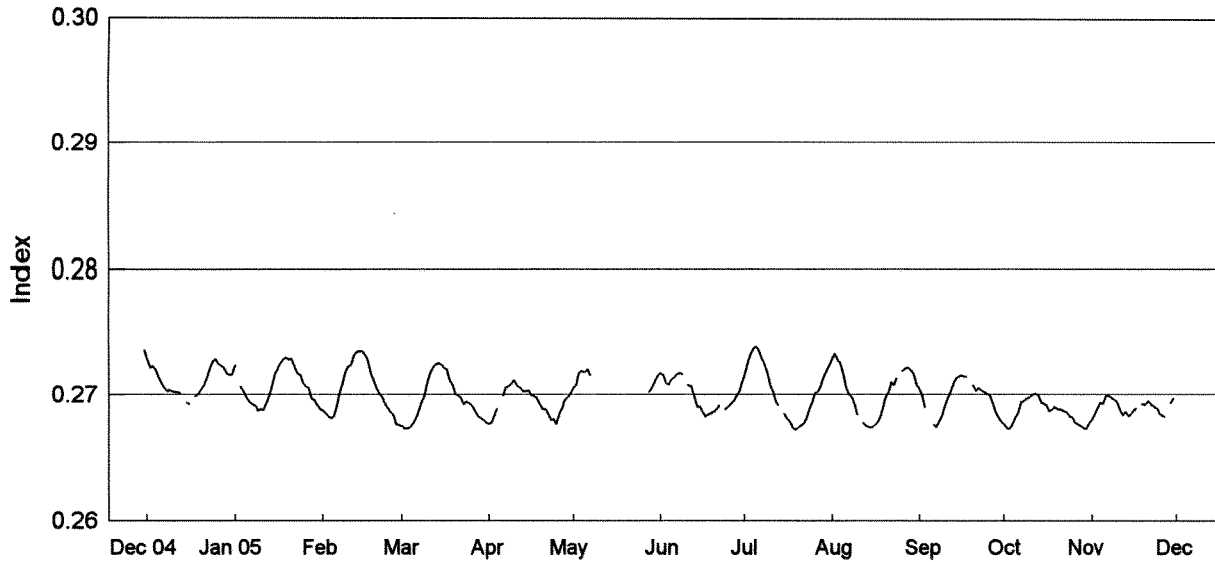
ABST = Abastumani	HOLL = Holloman	RAMY = Ramey
ATHN = Athens	KHAR = Kharkov	SVTO = San Vito
BUCA = Bucharest	LEAR = Learmonth	VORO = Voroshilov
CATA = Catania	PALE = Palehua	VALA = Valasske Mezirici
		WROC = Wroclaw

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

## Dec 2004 - Nov 2005

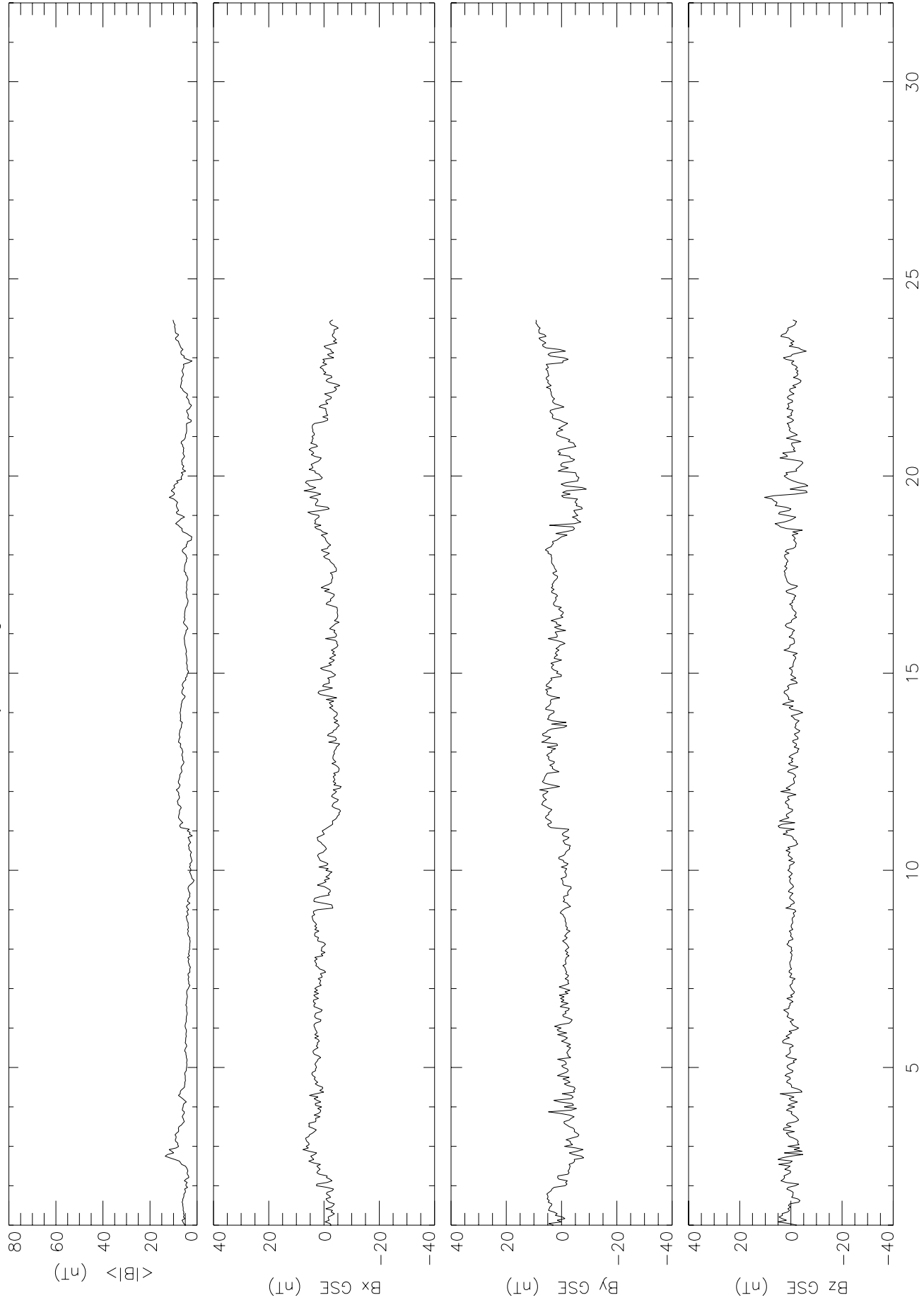
Version 9.1



Day	Dec 04	Jan 05	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0.2729	0.2724	0.2687	0.2675	0.2677	0.2706	0.2718	0.2715	0.2729	0.2704	0.2677	0.2680
2	0.2723	---	0.2685	0.2673	0.2678	0.2707	0.2716	0.2726	0.2733	0.2699	0.2674	0.2684
3	0.2724	0.2707	0.2683	0.2673	0.2685	0.2718	0.2710	0.2732	0.2729	0.2689	0.2673	0.2689
4	0.2720	0.2702	0.2682	0.2674	0.2689	0.2720	0.2708	0.2738	0.2725	---	0.2677	0.2694
5	0.2714	0.2697	0.2683	0.2677	---	0.2719	0.2712	0.2739	0.2717	---	0.2683	0.2692
6	0.2709	0.2694	0.2691	0.2681	0.2699	0.2721	0.2715	0.2737	0.2706	0.2676	0.2686	0.2699
7	0.2705	0.2693	0.2701	0.2687	0.2706	0.2715	0.2717	0.2730	0.2700	0.2674	0.2694	0.2699
8	0.2702	0.2691	0.2709	0.2693	0.2706	---	0.2718	0.2726	0.2698	0.2678	0.2694	0.2697
9	0.2704	0.2687	0.2719	0.2698	0.2709	---	0.2716	0.2718	0.2691	0.2684	0.2696	0.2695
10	0.2702	0.2689	0.2724	0.2708	0.2712	---	---	0.2708	0.2684	0.2690	0.2697	0.2693
11	0.2702	0.2687	0.2725	0.2718	0.2708	---	0.2708	0.2702	---	0.2697	0.2699	0.2688
12	0.2702	0.2692	0.2732	0.2722	0.2706	---	0.2707	0.2694	0.2678	0.2702	0.2701	0.2684
13	0.2701	0.2698	0.2734	0.2725	0.2703	---	0.2699	0.2691	0.2676	0.2709	0.2699	0.2686
14	---	0.2707	0.2736	0.2726	0.2703	---	0.2690	---	0.2675	0.2714	0.2693	0.2683
15	0.2693	0.2716	0.2736	0.2725	0.2703	---	0.2690	0.2685	0.2674	0.2715	0.2693	0.2685
16	0.2692	0.2722	0.2732	0.2723	0.2700	---	0.2686	0.2681	0.2675	0.2716	0.2691	0.2688
17	---	0.2726	0.2728	0.2721	0.2699	---	0.2683	0.2679	0.2678	0.2715	0.2687	0.2689
18	0.2698	0.2728	0.2717	0.2712	0.2697	---	0.2685	0.2674	0.2681	0.2715	0.2688	---
19	0.2700	0.2731	0.2712	0.2708	0.2692	---	0.2685	0.2672	0.2689	---	0.2690	0.2692
20	0.2704	0.2729	0.2706	0.2701	0.2689	---	0.2687	0.2674	0.2697	0.2708	0.2688	0.2692
21	0.2707	0.2729	0.2701	0.2699	0.2689	---	0.2688	0.2676	0.2702	0.2703	0.2688	0.2694
22	0.2714	0.2723	0.2698	0.2697	0.2685	---	0.2691	0.2677	0.2710	0.2705	0.2687	0.2692
23	0.2720	0.2718	0.2693	0.2692	0.2680	---	---	0.2682	0.2707	0.2704	0.2686	0.2691
24	0.2727	0.2716	0.2689	0.2694	0.2681	---	0.2688	0.2688	0.2714	0.2702	0.2683	0.2689
25	0.2729	0.2710	0.2686	0.2693	0.2677	---	0.2690	0.2694	---	0.2701	0.2682	0.2685
26	0.2726	0.2707	0.2684	0.2690	0.2685	---	0.2692	0.2701	0.2720	0.2699	0.2679	0.2684
27	0.2724	0.2705	0.2677	0.2687	0.2689	---	0.2694	0.2702	0.2722	0.2692	0.2677	0.2683
28	0.2723	0.2697	0.2676	0.2684	0.2695	0.2702	0.2698	0.2707	0.2723	0.2686	0.2676	---
29	0.2717	0.2695		0.2682	0.2697	0.2706	0.2702	0.2714	0.2720	0.2682	0.2674	0.2693
30	0.2716	0.2691		0.2680	0.2700	0.2710	0.2709	0.2720	0.2717	0.2679	0.2673	0.2697
31	0.2716	0.2689		0.2678		0.2715		0.2724	0.2708		0.2677	
Mean	0.2723	0.2707	0.2707	0.2697	0.2694	0.2712	0.2700	0.2703	0.2703	0.2698	0.2686	0.2690

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

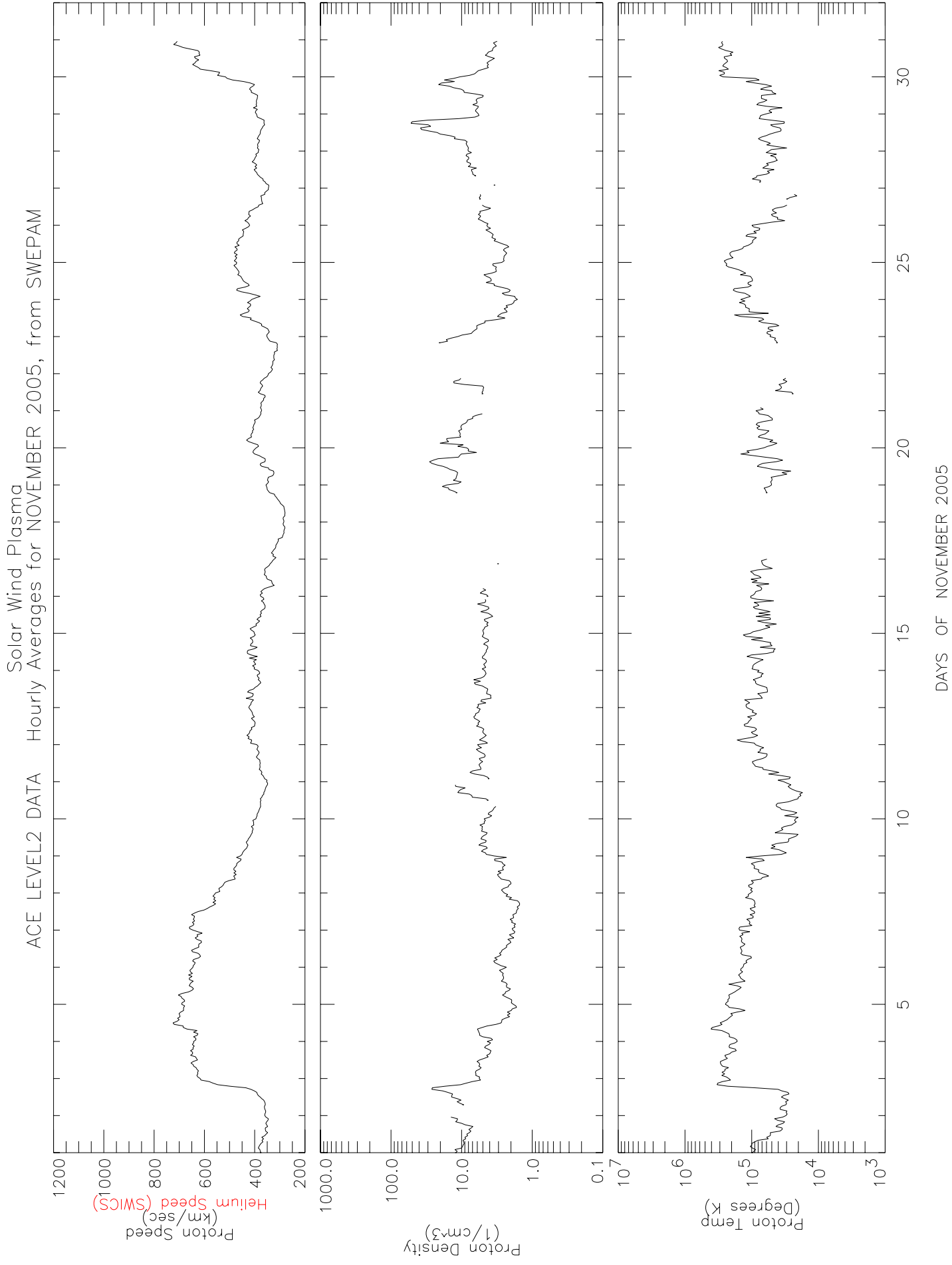
ACE LEVEL2 DATA Interplanetary Magnetic Field  
Hourly Averages for NOVEMBER 2005, from MAG



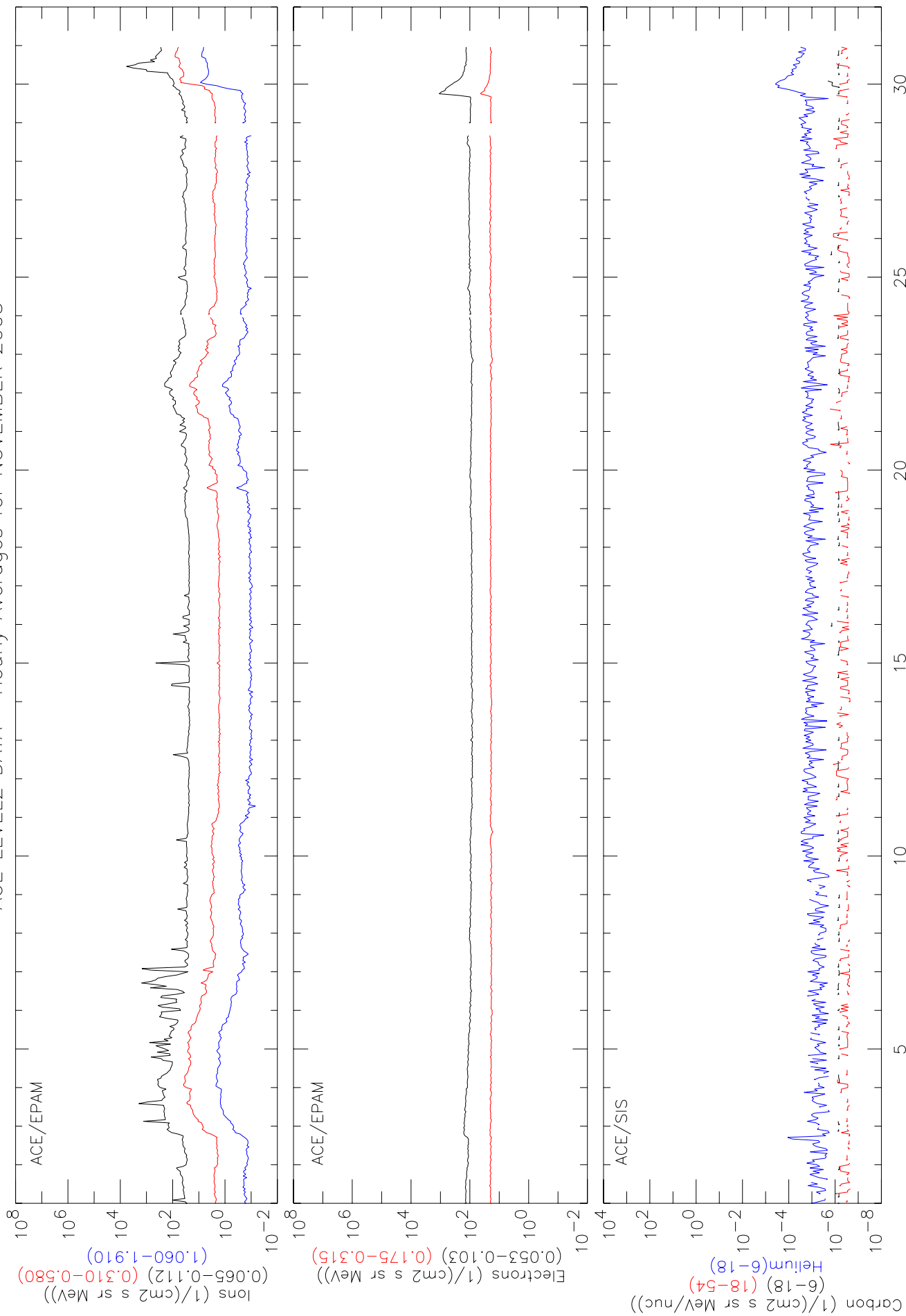
DAYS OF NOVEMBER 2005



ACE LEVEL2 DATA Hourly Averages for NOVEMBER 2005, from SWEPAM



# Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for NOVEMBER 2005



# 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  
NOVEMBER 2005

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 <sup>2</sup>	Position Angle degree		
2005/11/02	04:30:05	275	47	359	0	732	697	20.1	275		
2005/11/02	12:54:05	204	4	379	----	----	----	-----	205	2 points;Only C2	
2005/11/02	16:54:05	206	6	840	----	----	----	-----	206	2 points;Only C2	
2005/11/03	06:06:05	155	77	304	----	----	----	-----	140	Only C2	
2005/11/03	06:30:07	272	23	183	69	312	427	7.3*	275		
2005/11/03	22:30:05	276	24	117	----	----	----	-----	278	3 points;Only C2	
2005/11/04	14:54:05	95	10	362	299	419	874	27.7*	96	3 points;Only C2	
2005/11/07	00:30:05	237	20	227	219	234	339	2.8*	241	Only C2	
2005/11/07	02:30:07	21	5	687	----	----	----	-----	26	2 points;Only C2	
2005/11/07	08:30:05	226	55	330	127	515	654	17.0*	226		
2005/11/07	23:06:05	5	155	335	249	427	429	5.1	40	Partial Halo	
2005/11/08	05:54:05	241	43	207	99	312	833	28.1*	239	Only C2	
2005/11/08	11:30:05	298	51	219	79	356	574	13.3*	301		
2005/11/08	18:06:06	314	12	293	273	314	351	2.1*	312		
2005/11/08	23:54:05	238	43	285	179	391	815	26.1*	240		
2005/11/09	03:30:05	266	49	521	695	353	0	-53.0	258		
2005/11/09	07:31:46	101	5	525	644	407	0	-85.3*	96	Only 3 points	
2005/11/09	12:06:06	235	68	181	181	180	161	-0.3*	236	Only C2	
2005/11/10	00:06:06	59	10	219	200	236	277	1.6*	66		
2005/11/10	08:30:05	102	12	256	312	203	0	-11.0*	100		
2005/11/11	07:31:46	106	5	395	----	----	----	-----	103	2 points;Only C2	
2005/11/12	01:31:46	71	40	107	168	52	0	-13.8*	69	Only C2	
2005/11/12	10:56:10	14	4	----	----	----	----	-----	17	1 point; Only C2	
2005/11/12	16:30:05	126	14	604	668	537	402	-12.0*	119		
2005/11/12	17:54:05	204	3	446	856	72	0	-363.2*	205	3 points;Only C2	
2005/11/13	05:54:05	249	67	644	744	542	158	-22.0	254		
2005/11/14	04:54:28	119	28	327	297	355	635	13.3*	113	Only C2	
2005/11/14	08:30:05	187	102	176	132	222	257	2.0*	191		
2005/11/15	12:54:29	35	7	380	----	----	----	-----	40	2 points;Only C2	
2005/11/15	16:30:05	309	28	197	34	354	707	20.4*	304		
2005/11/16	13:31:46	174	27	198	----	----	----	-----	176	Only C2	
2005/11/16	16:30:29	239	190	292	216	370	437	6.0	270	Partial Halo	
2005/11/17	02:30:05	229	4	266	----	----	----	-----	230	2 points;Only C2	
2005/11/17	06:30:05	81	40	520	752	307	0	-106.5*	92		
2005/11/17	18:06:05	147	24	267	197	335	746	21.1*	146	Only C2	
2005/11/17	19:54:22	304	14	400	322	484	485	6.1	301		
2005/11/18	00:30:29	78	6	231	217	245	478	7.5*	80	3 points;Only C2	
2005/11/18	14:54:05	117	15	385	330	441	922	31.4*	114	Only C2	
2005/11/18	19:31:47	266	57	433	370	503	609	10.0*	279		

## 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  
NOVEMBER 2005

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 <sup>2</sup>	Position Angle degree		
2005/11/19	05:54:07	195	160	156	68	248	290	3.3	226	Partial Halo	
2005/11/19	14:54:05	188	186	332	264	400	474	6.3*	172	Partial Halo	
2005/11/19	15:06:05	114	76	425	460	388	288	-5.5	97		
2005/11/19	18:06:05	248	45	280	281	279	273	-0.2	242		
2005/11/20	02:06:06	60	7	386	573	219	0	-70.1*	63	3 points; Only C2	
2005/11/20	09:30:05	77	11	424	408	442	516	4.1*	83		
2005/11/20	17:30:05	101	80	255	0	531	430	7.9	113		
2005/11/20	17:54:05	205	73	249	303	191	0	-11.7*	189		
2005/11/20	21:54:05	166	210	320	196	453	586	12.4	206	Partial Halo	
2005/11/20	23:06:50	63	5	474	567	390	0	-41.3*	63	Only 3 points	
2005/11/21	19:31:43	164	34	117	152	85	0	-4.9*	165		
2005/11/22	03:30:06	82	50	157	168	145	78	-0.9*	88		
2005/11/22	07:54:05	156	16	173	222	118	0	-3.2*	161		
2005/11/23	10:30:19	297	43	265	227	299	575	11.6*	294		
2005/11/23	15:06:06	293	59	310	291	329	408	3.4*	298		
2005/11/23	23:54:05	340	169	395	415	375	307	-3.3*	332	Partial Halo	
2005/11/24	04:54:05	263	43	250	183	313	938	34.9*	268	Only C2	
2005/11/24	13:31:46	319	132	343	277	409	576	10.6*	336	Partial Halo	
2005/11/24	19:31:45	221	5	----	----	----	----	-----	221	1 point; Only C2	
2005/11/25	15:30:05	7	88	265	350	178	0	-10.5*	346		
2005/11/25	23:06:06	21	3	----	----	----	----	-----	22	1 point; Only C2	
2005/11/26	05:30:05	277	46	169	----	----	----	-----	274	2 points; Only C2	
2005/11/26	07:31:45	277	45	189	107	275	625	15.9*	278		
2005/11/26	09:30:13	114	20	391	479	309	0	-44.2*	114	3 points; Only C2	
2005/11/26	17:30:05	321	5	348	----	----	----	-----	317	2 points; Only C2	
2005/11/27	05:54:05	58	27	331	310	353	460	4.9*	60		
2005/11/27	09:30:05	278	54	191	18	333	641	16.9*	281		
2005/11/27	14:06:06	337	5	730	----	----	----	-----	334	2 points; Only C2	
2005/11/27	15:54:05	65	7	448	524	373	0	-43.0*	65	Only C2	
2005/11/28	09:30:05	268	73	338	296	384	402	3.0	273		
2005/11/29	01:31:45	147	17	190	178	203	336	3.4*	146	Only C2	
2005/11/29	17:30:07	181	255	692	679	705	707	1.6	277	Uncertain Width; Partial Halo	
2005/11/30	07:54:05	60	82	237	----	----	----	-----	43		
2005/11/30	16:54:05	71	15	272	286	258	131	-2.7*	75		

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

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.