



Solar-Geophysical Data comprehensive reports

Data for March 2003 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:

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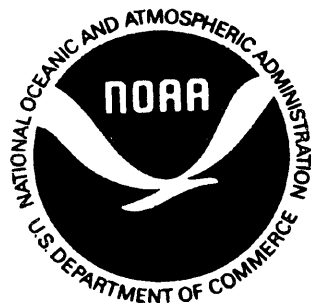
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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
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Data for March 2003 and Late Data

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Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 709

(Issued in Two Parts)

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

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A.6f	Active Prominences and Filaments	707B 33	708B 25	709B 33					
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C.1h	H-alpha Flare Index (ImpxDur)	Jan 76-Dec 85 in 639B 26; Jan 86-Oct 96 in 635B 24; Jan 96-Dec 98 in 665B 63							
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Mar 03

H α SOLAR FLARES

MARCH 2003

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)	
			01 0351		0402			No Flare Patrol											
0001	KANZ	01	1040	1045	1055	S15	W10		02	28.7	15	SF		2	E				
0002	RAMY	01	1717E	1717U	1723	N11	E62	10296	03	6.4	6D	SF		3	E		15		
0003	RAMY	01	1907E		1912	N13	E78	10299	03	7.7	5D	SF		3	E		63		
			01 2201		2209			No Flare Patrol											
0004	LEAR	02	0444	0445	0452	N12	E60	10296	03	6.7	8	SF		3	E		21		H
0005	LEAR	02	0631	0631	0633	S09	W72	10292	02	25.0	2	SF		3	E		17		
0006	LEAR	02	0717	0720	0728	S09	W73	10292	02	24.9	11	SF		3	E		31		F
0007	LEAR	02	0743	0749	0814	S09	W73	10292	02	24.9	31	SF		3	E		53		F
			02 1108		1133			No Flare Patrol											
			02 1145		1237			No Flare Patrol											
0008	RAMY	02	1425	1426	1433	N08	E57	10296	03	6.9	8	SF		3	E		18		F
			02 2014		2040			No Flare Patrol											
			02 2120		2247			No Flare Patrol											
			03 0339		0428			No Flare Patrol											
			03 1012		1214			No Flare Patrol											
			03 1321		1327			No Flare Patrol											
			03 1803		1808			No Flare Patrol											
			03 2131		2218			No Flare Patrol											
			03 2245		2254			No Flare Patrol											
			04 1809		1827			No Flare Patrol											
			04 1833		1846			No Flare Patrol											
0009	LEAR	05	0259	0259	0319	N15	E21	10296	03	6.7	20	SF		4	E		64		
0010	LEAR	05	0445	0446	0452	N18	E57	10302	03	9.5	7	SF		3	E		19		F
0011	KANZ	05	0724	0725	0726	N22	E31	10301	03	7.7	2	SF		2	E				
			05 1602		1921			No Flare Patrol											
			05 1925		1953			No Flare Patrol											
			05 2008		2023			No Flare Patrol											
			07 0032		0341			No Flare Patrol											
			07 0358		0622			No Flare Patrol											
			07 0639		0721			No Flare Patrol											
			07 0844		0901			No Flare Patrol											
			07 0919		0928			No Flare Patrol											
			07 0954		1037			No Flare Patrol											
0012	KANZ	07	1154	1156	1204	N19	W01	10301	03	7.4	10	SF		2	E				
			07 2154		2400			No Flare Patrol											
			08 0000		0120			No Flare Patrol											
0013	KANZ	08	0843	0845	0848	S13	W21	10304	03	6.8	5	SF		2	E				
0014		08	0923*	09336	0959	N08	E68	10306	03	13.5	36	SF					17		F
	KANZ	08	0923	0933	1013	N10	E67	10306	03	13.4	50	SF		2	E				
	SVTO	08	0938	0939	0945	N06	E69	10306	03	13.6	7	SF		3	E		17		F
0015	KANZ	08	1154	1156	1200	S13	W22	10304	03	6.8	6	SF		2	E				
0016	HOLL	08	2321	2322	2328	S14	W28	10304	03	6.8	7	SF		3	E		29		
0017		09	0005	0007	0014	S15	W31	10304	03	6.6	9	SF					31		F
	LEAR	09	0005	0007U	0014	S15	W31	10304	03	6.6	9	SF		3	E		38		F
	HOLL	09	0005	0007	0014	S15	W31	10304	03	6.6	9	SF		3	E		24		

H α SOLAR FLARES5
Mar 03

MARCH 2003

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)	
0018	LEAR	09	0015	0015	0019	N03	E59	10306	03	13.4	4	SF		3	E		14		
			09 0101		0122														
			09 0141		0147														
																			No Flare Patrol
																			No Flare Patrol
0019	LEAR	09	0205	0207	0212	N06	E64	10306	03	13.9	7	SF		3	E		14		F
0020	LEAR	09	0344	0344	0348	N03	E61	10306	03	13.7	4	SF		3	E		34		
			09 0429		0503														
			09 0531		0550														
																			No Flare Patrol
																			No Flare Patrol
0021	LEAR	09	0646E	0646	0654	S18	W38	10310	03	6.4	8D	SF		3	E		50		F
0022	RAMY	09	1752	1753	1757	S16	W46	10310	03	6.2	5	SF		3	E		16		F
			10 0111		0251														
																			No Flare Patrol
0023	LEAR	10	0540	0540	0545	S18	W54	10295	03	6.1	5	SF		4	E		10		
0024	LEAR	10	0844	0852	0858	N03	E45	10306	03	13.7	14	SF		3	E		60		
			10 1041		1100														
			10 1121		1205														
			11 0101		0148														
			11 0154		0209														
																			No Flare Patrol
																			No Flare Patrol
																			No Flare Patrol
																			No Flare Patrol
0025		11	12242	12263	1232	S14	W64	10304	03	6.7	8	SF					22		FH
	KANZ	11	1224	1229	1233	S15	W66	10304	03	6.5	9	SF		2	E				
	RAMY	11	1226	1226	1231	S14	W62	10304	03	6.8	5	SF		3	E		22		FH
0026	KANZ	11	1417	1426	1538D	S12	E23	10311	03	13.3	81D	SF		2	E				
			11 1944		1958														
			11 2009		2145														
																			No Flare Patrol
																			No Flare Patrol
0027		12	09381	09402	0946	N08	E13	10306	03	13.4	8	SF					16		H
	KANZ	12	0938	0942	0951D	N08	E13	10306	03	13.4	13D	SF		2	E				
	LEAR	12	0939	0940	0946	N08	E13	10306	03	13.4	7	SF		3	E		16		H
0028	LEAR	12	0947	0950	0954	N09	E13	10306	03	13.4	7	SF		3	E		12		
0029	KANZ	12	1141E	1142	1155	N08	E13	10306	03	13.5	14D	SF		2	E				
			12 2131		2253														
																			No Flare Patrol
0030	LEAR	13	0205	0207	0214	N16	W53	10312	03	9.1	9	SF		3	E		16		F
0031	LEAR	13	0209	0213	0233	S12	E09	10311	03	13.8	24	SF		3	E		68		F
0032	LEAR	13	0602	0610	0621	S29	E64		03	18.3	19	SF		3	E		21		
0033	KANZ	13	1322	1324	1326	N07	E00	10306	03	13.5	4	SF		2	E				
0034		13	1327	1335	1342	S26	W54	10307	03	9.4	15	SF					11		F
	KANZ	13	1327	1335	1342	S25	W53	10307	03	9.4	15	SF		2	E				
	RAMY	13	1334E	1334U	1341	S26	W54	10307	03	9.4	7D	SF		3	E		11		F
0035	KANZ	13	1349	1406	1412	N33	E04	10313	03	13.9	23	SF		2	E				
0036	KANZ	13	1442	1452	1456	N33	E04	10313	03	13.9	14	SF		2	E				
0037	KANZ	13	1533	1535	1541	N33	E03	10313	03	13.9	8	SF		2	E				
			14 1129		1216														
			14 2212		2241														
			14 2245		2253														
																			No Flare Patrol
																			No Flare Patrol
																			No Flare Patrol
0038	KANZ	15	0824E	0830	0833D	S15	W04	10314	03	15.0	9D	SF		2	E				

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Mar 03

H α S O L A R F L A R E S

MARCH 2003

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)	
			15 1001		1025			No Flare Patrol											
			15 1027		1029			No Flare Patrol											
			15 1103		1104			No Flare Patrol											
			15 1106		1108			No Flare Patrol											
0039	KANZ	15	1110	1118	1154	S15	W04	10314	03	15.2	44	SF		2	E				
			15 1111		1112			No Flare Patrol											
			15 1121		1124			No Flare Patrol											
0040	KANZ	15	1342	1347	1354	N08	W26	10306	03	13.6	12	SF		2	E				
0041	KANZ	15	1343	1350	1408	S15	W06	10314	03	15.1	25	SF		2	E				
			15 2012		2151			No Flare Patrol											
0042	HOLL	15	2043	2046	2049	S16	W11	10314	03	15.0	6	SF		3	E		21		
			15 2158		2258			No Flare Patrol											
0043	LEAR	16	0400	0408	0439	S15	W15	10314	03	15.0	39	SF		3	E		19		F
0044	KANZ	16	0808	0816	0822	S14	W17	10314	03	15.0	14	SF		2	E				
			16 1034		1115			No Flare Patrol											
			16 1123		1154			No Flare Patrol											
0045	KANZ	16	1231	1423	1518	S14	W18	10314	03	15.2	167	SF		2	E				
0046	KANZ	16	1232	1258	1330	S14	W18	10314	03	15.2	58	SF		2	E				
			16 1713		1720			No Flare Patrol											
			16 1750		1803			No Flare Patrol											
0047	HOLL	16	1910	1910	1915	S11	W29	10314	03	14.6	5	SF		3	E		40		
			16 2049		2135			No Flare Patrol											
			16 2144		2227			No Flare Patrol											
			17 0231		0348			No Flare Patrol											
0048	KANZ	17	1009	1014	1018	S16	W33	10314	03	14.9	9	SF		2	E				
0049	KANZ	17	1212	1223	1229	S12	W37	10314	03	14.7	17	SF		2	E				
0050	HOLL	17	1639	1658	1704	S14	W39	10314	03	14.7	25	SF		3	E		25		F
0051	RAMY	17	1640	1640	1647	S14	W39	10314	03	14.7	7	SF		3	E		13		F
0052	HOLL	17	1854	1913	2003D	S14	W38	10314	03	14.9	69D	1N		3	E		189		F
			17 2028		2221			No Flare Patrol											
0053	LEAR	17	2355	2358	2405	S16	W43	10314	03	14.7	10	SF		3	E		24		
			18 0002		0007			No Flare Patrol											
			18 0013		0526			No Flare Patrol											
0054	LEAR	18	0033	0035	0128	S15	W44	10314	03	14.7	55	1N		3	E		215		F
0055	LEAR	18	0141	0147	0324	S15	W45	10314	03	14.7	103	1F		3	E		106		F
0056	LEAR	18	0337	0348	0504	S15	W43	10314	03	14.9	87	SF		3	E		80		FH
0057	LEAR	18	0522	0523	0530	S16	W43	10314	03	15.0	8	SF		3	E		25		F
0058		18	05543	0600	0621	S12	W46	10314	03	14.8	27	1N					112		EFH
	LEAR	18	0554	0600	0631	S15	W46	10314	03	14.8	37	1B		3	E		158		FE
	SVTO	18	0557	0600	0611	S09	W46	10314	03	14.8	14	SF		3	E		66		H

H α SOLAR FLARES7
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MARCH 2003

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)	
0059	KANZ	18	0614E	0616	0704	S14	W43	10314	03	15.0	50D	SF		2	E				
0060	LEAR	18	0637	0639	0647	S15	W45	10314	03	14.9	10	SF		3	E		23		F
0061	LEAR	18	0649	0650	0702	S15	W45	10314	03	14.9	13	SF		3	E		35		F
0062	KANZ	18	0710	0713	0716	S15	W44	10314	03	15.0	6	SF		2	E				
0063	KANZ	18	0720	0726	0731	S14	W44	10314	03	15.0	11	SF		2	E				
0064	KANZ	18	0734	0736	0759	S14	W47	10314	03	14.8	25	SF		2	E				
0065	LEAR	18	0734	0743	0753	S15	W48	10314	03	14.7	19	SF		3	E		23		F
0066	KANZ	18	1012	1012	1013	S14	W44	10314	03	15.1	1	SF		2	E				
0067		18	11542	12072	1331	S13	W46	10314	03	15.0	97	1B					229		FHZ
	KANZ	18	1154	1207	1344	S14	W46	10314	03	15.0	110	1B		2	E				
	RAMY	18	1156	1207	1311	S15	W46	10314	03	15.0	75	1B		3	E		200		FH
	SVTO	18	1156	1209	1337	S09	W46	10314	03	15.0	101	2B		3	E		258		ZF
0068	KANZ	18	1315	1330	1418	N17	E40		03	21.6	63	SF		2	E				
0069	SVTO	18	1620	1620	1625D	S16	W48	10314	03	15.0	5D	SF		3	E		13		
			18 1848		2044														
			18 2056		2257														
0070	LEAR	18	2302E	2313	2437	S13	W55	10314	03	14.8	95D	2F		3	E		285		F
			19 0059		0123														
0071	LEAR	19	0159	0200	0204	S15	W54	10314	03	15.0	5	SF		3	E		34		
0072	LEAR	19	0211	0306	0518	S14	W56	10314	03	14.8	187	1N		3	E		155		EF
			19 0634		0700														
0073	LEAR	19	0701E	0701U	0704	S12	W60	10314	03	14.8	3D	2F		3	E		301		
0074	KANZ	19	0841	0842	0843	S15	W54	10314	03	15.3	2	SF		2	E				
0075		19	09384	0952	1035	S15	W56	10314	03	15.2	57	1N					131		EF
	KANZ	19	0938	0952	1035	S15	W56	10314	03	15.2	57	1N		2	E				
	LEAR	19	0942	0952	0957D	S15	W57	10314	03	15.1	15D	1N		2	E		131		FE
0076	LEAR	19	0956	0956	0957D	S15	W78	10311	03	13.5	1D	SF		2	E		11		
0077	KANZ	19	1101	1102	1107	S15	W57	10314	03	15.1	6	SF		2	E				
0078		19	1123	1128	1134	S16	W58	10314	03	15.1	11	SF					23		F
	KANZ	19	1123	1128	1134	S16	W57	10314	03	15.1	11	SF		2	E				
	RAMY	19	1124E	1124U	1135	S15	W58	10314	03	15.1	11D	SF		3	E		23		F
0079	KANZ	19	1328	1337	1354	S15	W59	10314	03	15.1	26	2F		2	E				
0080	SVTO	19	1330E	1331U	1354D	S07	W61	10314	03	15.0	24D	2F		3	E		414		F
			19 1404		1406														
0081	RAMY	19	1647E	1647U	1654	S11	W66	10314	03	14.7	7D	SF		3	E		11		
			19 1649		1715														
0082	HOLL	19	1819	1820	1834	S11	W66	10314	03	14.8	15	SF		3	E		63		F
0083		19	1848	1850	1920	S14	W64	10314	03	14.9	32	SF					80		F
	HOLL	19	1848	1850	1922	S14	W64	10314	03	14.9	34	SF		3	E		96		
	RAMY	19	1849E	1849U	1918	S13	W65	10314	03	14.9	29D	SF		3	E		63		F

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H α S O L A R F L A R E S

MARCH 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks
								USAF Region						(10-6 Disk)	Corr (Sq Deg)	
		19	2021		2255			No Flare Patrol								
0084	LEAR	20	0223	0225	0236	S13	W72	10314	03	14.7	13	SF	3	E	91	FH
0085	KANZ	20	1127	1128	1142	S14	W74	10314	03	14.9	15	1F	2	E		
0086	SVTO	20	1128	1128	1135	S04	W75	10314	03	14.9	7	1F	3	E	152	F
0087	KANZ	20	1454	1454	1459	S14	E01		03	20.7	5	SF	2	E		
		20	2157		2257			No Flare Patrol								
		21	0307		0333			No Flare Patrol								
0088	KANZ	21	0948	0958	1026	S25	E15		03	22.6	38	SF	2	E		
		21	2131		2303			No Flare Patrol								
		22	0102		0133			No Flare Patrol								
		22	0140		0220			No Flare Patrol								
		22	0227		0340			No Flare Patrol								
		22	0425		0513			No Flare Patrol								
		23	0111		0128			No Flare Patrol								
		23	0159		0214			No Flare Patrol								
		23	0232		0535			No Flare Patrol								
		23	0542		0605			No Flare Patrol								
		24	0129		0507			No Flare Patrol								
		24	1923		1955			No Flare Patrol								
		24	2049		2053			No Flare Patrol								
		24	2205		2218			No Flare Patrol								
		24	2243		2314			No Flare Patrol								
		24	2319		2400			No Flare Patrol								
		25	0000		0020			No Flare Patrol								
		25	0024		0510			No Flare Patrol								
0089		25	1246*	13001	1305	N12	E32	10319	03	27.9	19	SF			21	
	KANZ	25	1246	1300	1306	N13	E30	10319	03	27.8	20	SF	2	E		
	SVTO	25	1259	1301	1304	N10	E33	10319	03	28.0	5	SF	3	E	21	
0090	KANZ	25	1337	1338	1340	N06	E72	10321	03	30.9	3	SF	2	E		
0091	HOLL	25	1539	1540	1547	N07	E72	10321	03	31.0	8	SF	3	E	17	
0092	SVTO	25	1605	1605	1610	S01	E72	10321	03	31.0	5	SF	3	E	19	
0093		25	1627I	1636	1640	N03	E70	10321	03	30.9	13	SF			39	
	HOLL	25	1627	1636	1641	N05	E69	10321	03	30.8	14	SF	3	E	47	F
	SVTO	25	1628	1636	1643D	S01	E69	10321	03	30.8	15D	SF	3	E	58	
	RAMY	25	1634E	1634U	1640	N06	E71	10321	03	31.0	6D	SF	3	E	13	
		25	1733		1816			No Flare Patrol								
		25	1927		2000			No Flare Patrol								
		25	2133		2135			No Flare Patrol								
		25	2155		2201			No Flare Patrol								
		25	2221		2355			No Flare Patrol								
		26	0114		0503			No Flare Patrol								
0094		26	0753	0754	0800	N03	E62	10321	03	31.0	7	SF			29	
	SVTO	26	0753	0754	0757	N00	E65	10321	03	31.2	4	SF	3	E	29	
	KANZ	26	0756E	0756U	0802	N06	E59	10321	03	30.7	6D	SF	2	E		
0095	KANZ	26	0756	0800	0802	S07	E48	10323	03	29.9	6	SF	2	E		
0096	KANZ	26	0828	0829	0830	N06	E59	10321	03	30.8	2	SF	2	E		
0097	HOLL	26	1652	1652	1656	N06	E59	10321	03	31.1	4	SF	3	E	15	
0098	HOLL	26	1707	1708	1723	S01	E60	10321	03	31.2	16	SF	3	E	39	
0099	RAMY	26	1708E	1708U	1725	N07	E57	10321	03	31.0	17D	SF	3	E	52	F
		26	2255		2329			No Flare Patrol								

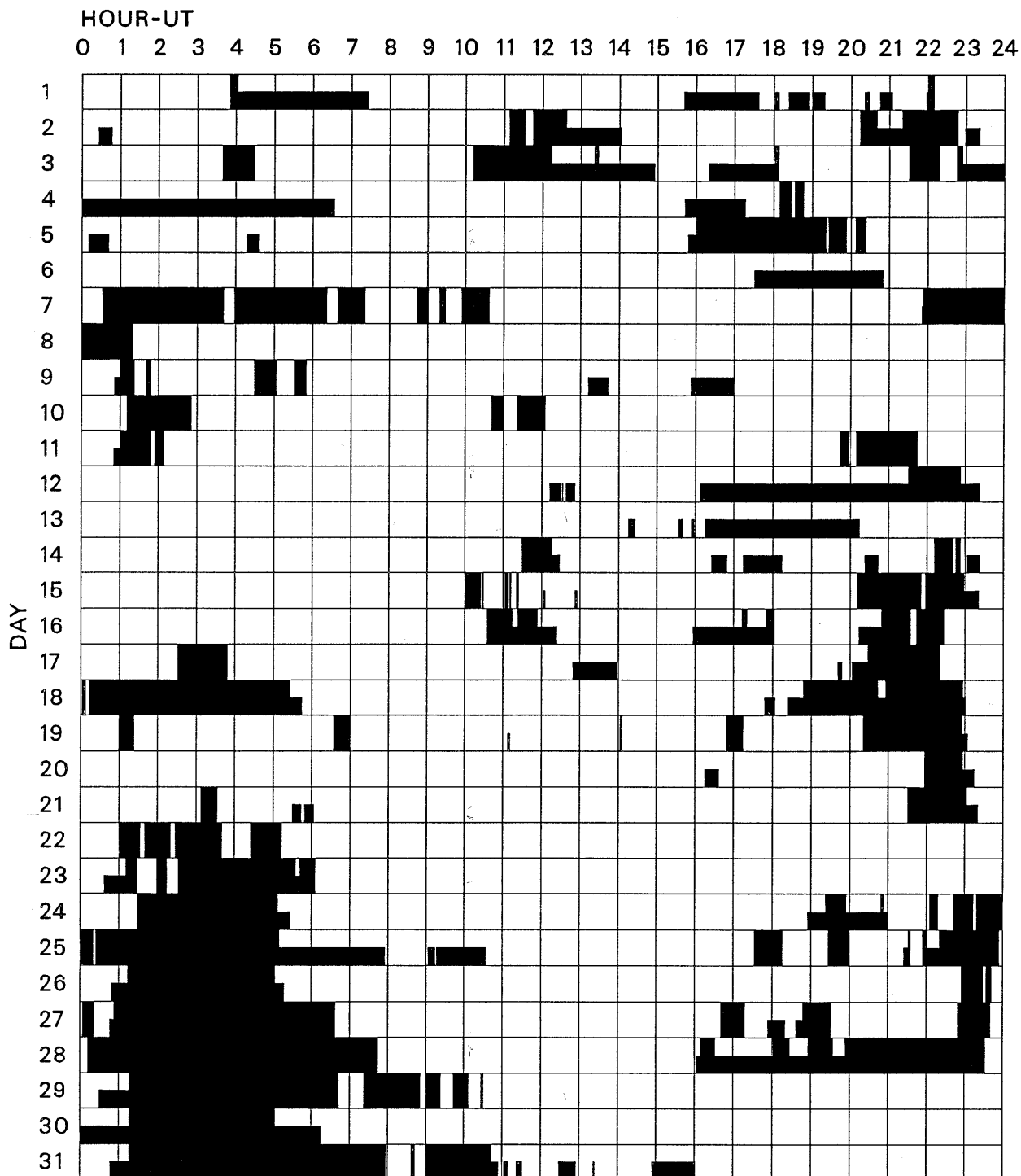
H α S O L A R F L A R E S9
Mar 03

MARCH 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			26 2334		2342	No	Flare	Patrol											
			27 0004		0021	No	Flare	Patrol											
			27 0053		0637	No	Flare	Patrol											
0100	KANZ	27	0649	0700	0748	N08	E50	10321	03	31.0	59	SF		2	E				
0101	KANZ	27	1127	1138	1153	N11	E04	10319	03	27.8	26	SF		2	E				
			27 1641		1718	No	Flare	Patrol											
			27 1848		1931	No	Flare	Patrol											
			27 2249		2341	No	Flare	Patrol											
			28 0012		0744	No	Flare	Patrol											
			28 1609		1632	No	Flare	Patrol											
			28 1802		1827	No	Flare	Patrol											
			28 1856		1934	No	Flare	Patrol											
			28 1954		2333	No	Flare	Patrol											
			29 0116		0643	No	Flare	Patrol											
			29 0722		0851	No	Flare	Patrol											
			29 0901		0923	No	Flare	Patrol											
			29 0943		1007	No	Flare	Patrol											
0102	SVTO	29	1015E	1019U	1034D	S12	W14	10318	03	28.4	19D	SF		3	E		62		F
			29 1027		1030	No	Flare	Patrol											
0103	SVTO	29	1229	1231U	1240	S09	E05	10323	03	29.9	11	SF		3	E		53		F
0104	HOLL	29	1351	1352	1357	S09	E06	10323	03	30.0	6	SF		3	E		17		
0105	HOLL	29	1451	1452	1457	S09	E06	10323	03	30.1	6	SF		3	E		17		
0106		29	15045	15151	1531	S12	W19	10318	03	28.2	27	SF					32		F
	HOLL	29	1504	1516	1537	S13	W18	10318	03	28.3	33	SF		3	E		44		
	RAMY	29	1506E	1506U	1531	S12	W19	10318	03	28.2	25D	SF		3	E		34		F
	SVTO	29	1509	1515	1524	S11	W19	10318	03	28.2	15	SF		3	E		17		F
0107	HOLL	29	1511	1511	1528	S08	E02	10323	03	29.8	17	SF		3	E		10		
0108	HOLL	29	1834	1838	1902	S11	W20	10318	03	28.3	28	1F		3	E		147		
0109	HOLL	29	2049	2050	2057	S11	W21	10318	03	28.3	8	SF		3	E		19		
			30 0116		0503	No	Flare	Patrol											
0110	HOLL	30	1803	1808	1816	N01	W02	10321	03	30.6	13	SF		3	E		16		F
			31 0116		0756	No	Flare	Patrol											
			31 0837		0842	No	Flare	Patrol											
			31 0901		1043	No	Flare	Patrol											
0111		31	1618	1619	1628	S07	W26	10323	03	29.7	10	SF					30		F
	HOLL	31	1618	1619	1630	S07	W26	10323	03	29.7	12	SF		3	E		36		F
	RAMY	31	1619E	1619U	1627	S07	W25	10323	03	29.8	8D	SF		3	E		23		F
0112		31	2123	2125	2139	S14	E38	10326	04	3.8	16	SF					36		F
	HOLL	31	2123	2125	2139	S12	E38	10326	04	3.7	16	SF		3	E		37		F
	RAMY	31	2125E	2125U	2144D	S17	E38	10326	04	3.8	19D	SF		3	E		36		F

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 2003



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

Holloman

Learmonth

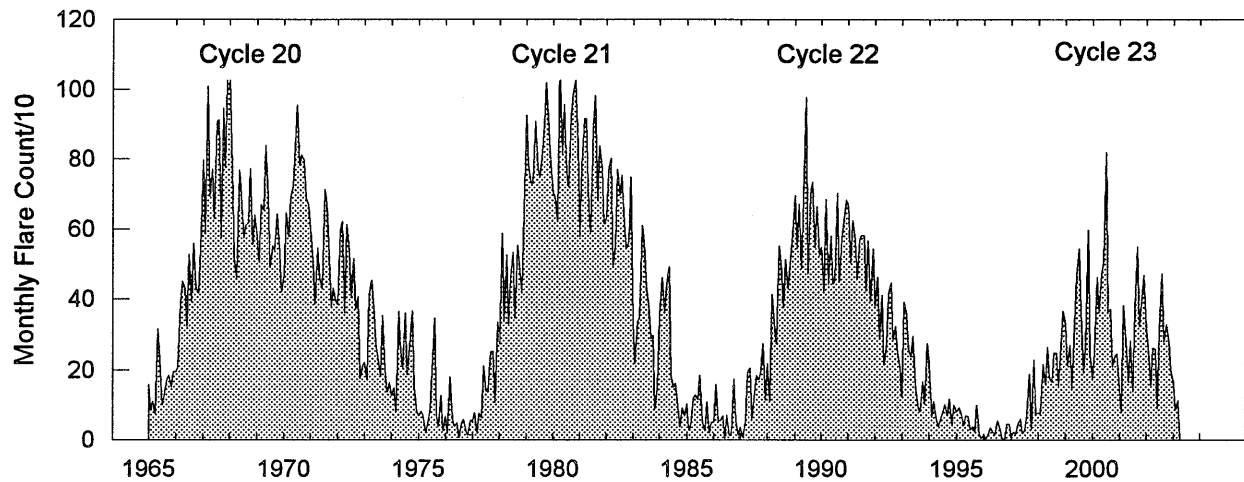
Ramey

San Vito

Kanzelhoehe

Monthly Counts of Grouped Solar Flares Jan 1965 - Mar 2003

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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										363

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

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Mar 03

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

Outstanding Occurrences

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m	Mean 2 Hz)		
01	245	SVTO	43 NS	0834.0	0853.0	223.0	110.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	0844.0	0853.0	14.0	140.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0910.0		350.0		12.0		V=0
	204	IZMI	43 NS	0956.0		78.3		70.0		
	245	SGMR	43 NS	1151.0	1151.0	26.0	73.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2212.0	0409.0	367.0	900.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2317.0	0334.0	442.0	350.0			QL=4 ST=2 TYP=1
	2840	PEKG	20 GRF	0110.0	0125.5	28.0	15.6			
	245	LEAR	8 S	0229.0	0229.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0252.0	0254.0	2.0	170.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0306.0	0306.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0400.0	0400.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0544.0	0545.0	2.0	65.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0545.0	0545.0	U	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0617.0	0617.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0617.0	0617.0	U	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0835.0	0835.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0840.0	0840.0	U	91.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0917.0	0917.0	U	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0917.0	0917.0	U	240.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0923.0	0923.0	1.0	510.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	0923.0	0923.0	1.0	460.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0948.0	0948.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0948.0	0948.0	2.0	270.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	1001.0	1001.0	U	56.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1118.0	1118.1	0.8	284.0			
	204	IZMI	42 SER	1119.0	1119.2	0.4	133.0			
	245	SGMR	8 S	1538.0	1538.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1538.0	1538.0	U	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1538.3	1538.6	1.2	10.0	5.0		
	245	SGMR	8 S	1624.0	1624.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1701.0	1701.0	U	75.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1707.0	1707.0	U	77.0			QL=4 ST=2 TYP=3
02	245	SVTO	43 NS	0544.0	0553.0	54.0	180.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		300.0D		15.0		
	127	TORN	44 NS	0700.0E		480.0D		14.0		V=0
	245	PALE	43 NS	1930.0	2006.0	83.0	360.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1938.0	2006.0	67.0	340.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2312.0	2319.0	8.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0737.0	0737.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0737.0	0737.0	U	67.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0818.0	0818.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0818.0	0818.0	U	80.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0908.9	0909.0	0.2	10.0			
	204	IZMI	42 SER	1027.2	1028.2	1.9	317.0			
	204	IZMI	42 SER	1101.9	1106.4	10.0	567.0			
	245	SVTO	8 S	1105.0	1106.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1256.0	1256.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1256.0	1256.0	U	87.0			QL=4 ST=2 TYP=3
	127	TORN	46 C	1415.7	1416.8	1.4	200.0	60.0		DISTURBED
	245	SGMR	8 S	1416.0	1416.0	U	52.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1445.0	1445.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1533.0	1534.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1534.0	1534.0	U	63.0			QL=2 ST=3 TYP=3
	245	SVTO	8 S	1539.0	1539.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1553.0	1553.0	U	71.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1559.0	1600.0	1.0	110.0			QL=2 ST=2 TYP=3
	4995	PALE	8 S	1718.0	1718.0	U	50.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1718.0	1718.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1837.0	1837.0	U	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1917.0	1919.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1919.0	1919.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2308.0	2308.0	U	82.0			QL=4 ST=2 TYP=3
03	245	LEAR	43 NS	0024.0	0028.0	11.0	91.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0211.0	0213.0	21.0	270.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0222.0	0222.0	10.0	60.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0945.0		105.0D		22.0		V=2

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

Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
03	245	SVTO	44 NS	0949.0E	0953.0	141.0D	210.0			QL=2 ST=2 TYP=1
	204	IZMI	43 NS	0952.0		128.0D		120.0		
	245	SGMR	43 NS	1138.0	1149.0	72.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1449.0	1606.0	116.0	300.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1519.0	1526.0	61.0	87.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0117.0	0117.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0200.0	0200.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0200.0	0200.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	0211.0	0213.0	6.0	320.0			QL=4 ST=2 TYP=8
	2840	PEKG	1 S	0521.0	0525.1	8.0	2.8			
	204	IZMI	7 C	0741.1	0741.2	0.5	21.0			
	245	LEAR	8 S	0942.0	0942.0	U	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0942.0	0943.0	1.0	74.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	0942.0U	0942.5	1.3D	420.0	130.0		
	204	IZMI	46 C	0942.4	0942.9	0.9	461.0			
	245	LEAR	8 S	0953.0	0953.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1444.0	1444.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1444.0	1445.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1448.0	1450.0	9.0	59.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1458.0	1503.0	10.0	140.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1551.0	1551.0	1.0	130.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1606.0	1606.0	U	250.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1750.0	1750.0	U	90.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1957.2	1958.0	1.8	14.0	7.0		
	245	SGMR	8 S	2030.0	2030.0	U	68.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2033.0	2044.0	103.0	11.0			
04	127	TORN	43 NS	0952.0		58.0		10.0		V=1
	245	SGMR	43 NS	2130.0	2132.0	7.0	270.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	2214.0	2214.0	106.0	61.0			QL=4 ST=1 TYP=1
	245	SGMR	8 S	1651.0	1651.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2111.0	2112.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2111.0	2111.0	U	93.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2116.0	2117.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2116.0	2117.0	1.0	250.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	2210.0	2211.0	17.0	25.0			0
	410	PALE	8 S	2312.0	2312.0	U	100.0			QL=4 ST=2 TYP=3
05	500	HIRA	8 S	2345.0	2345.0	1.0	30.0			WL
	245	SVTO	43 NS	0916.0	0918.0	24.0	170.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	0917.0	0928.0	53.0	230.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1514.0	1555.0	68.0	280.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1520.0	1652.0	180.0	280.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1814.0	1820.0	23.0	210.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1814.0	2026.0	132.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1814.0	2131.0	197.0	290.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2011.0	2013.0	89.0	180.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2321.0	2326.0	23.0	750.0			QL=4 ST=2 TYP=1
	2840	PEKG	47 GB	0257.0	0258.9	10.0	858.2			
	245	LEAR	49 GB	0258.0	0258.0	1.0	530.0			QL=4 ST=2 TYP=6
	1415	LEAR	8 S	0258.0	0259.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0258.0	0259.0	1.0	460.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0258.0	0258.0	1.0	98.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0258.0	0258.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0258.0	0259.0	1.0	440.0			QL=4 ST=3 TYP=3
	500	HIRA	8 S	0259.0	0259.0	1.0	55.0			0
	2695	PALE	49 GB	0259.0	0259.0	U	600.0			QL=4 ST=3 TYP=6
	1415	PALE	8 S	0259.0	0259.0	U	94.0			QL=4 ST=3 TYP=3
	4995	PALE	8 S	0259.0	0259.0	U	100.0			QL=4 ST=3 TYP=3
	8800	PALE	8 S	0259.0	0259.0	U	52.0			QL=4 ST=3 TYP=3
	15400	PALE	8 S	0259.0	0259.0	U	48.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0332.0	0332.0	U	160.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0757.0	0759.5	8.0	2.6			
	204	IZMI	41 F	0822.2	0822.5	0.8	35.0			
	410	SVTO	8 S	0913.0	0914.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	1736.0	1739.0	7.0	150.0			QL=4 ST=2 TYP=8
	410	PALE	8 S	1741.0	1741.0	1.0	77.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1940.0	1948.0	13.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1941.0	1948.0	9.0	140.0			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 (10 -22 W/m 2 Hz)	Mean		
05	245	SGMR	4 S/F	1948.0	1950.0	5.0	75.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2012.0	2013.0	2.0	270.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2017.0	2017.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2018.0	2018.0	U	72.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2357.0	2358.0	2.0	770.0			QL=4 ST=2 TYP=6
06	245	LEAR	43 NS	0229.0	0244.0	177.0	400.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0937.0		43.0		11.0		V=0
	245	LEAR	8 S	0124.0	0124.0	U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0147.0	0147.0	2.0	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0204.0	0204.0	U	93.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0224.0	0224.0	U	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0828.0	0828.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0828.0	0828.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0831.0	0832.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0832.0	0832.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1227.0	1227.0	U	73.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1733.0	1802.0	42.0	4.0			
	2800	PENT	20 GRF	2102.0	2119.0	35.0	3.0			
	245	PALE	8 S	2105.0	2105.0	U	79.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2111.0	2111.0	1.0	240.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2111.0	2111.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2323.0	2323.0	U	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2339.0	2344.0	30.0	45.0			
	500	HIRA	8 S	2343.0	2343.0	1.0	120.0			0
	245	LEAR	8 S	2343.0	2343.0	U	73.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2343.0	2343.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	2343.0	2343.0	U	70.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2343.0	2343.0	U	51.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2343.0	2344.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	HIRA	8 S	2344.0	2344.0	1.0	45.0			0
	4995	LEAR	8 S	2344.0	2344.0	U	81.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2344.0	2344.0	U	63.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2344.0	2344.0	U	47.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2344.0	2344.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	2344.0E	2344.3	9.0D	60.1			
07	127	TORN	43 NS	0835.0		145.0		4.0		V=1,DISTURBED
	204	IZMI	43 NS	1122.0		38.0D		20.0		
	2840	PEKG	1 S	0242.0	0244.5	5.0	4.1			
	500	HIRA	8 S	0244.0	0244.0	1.0	20.0			0
	245	LEAR	8 S	0244.0	0244.0	U	74.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0244.0	0244.0	U	56.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0244.0	0244.0	2.0	780.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0500.0	0500.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0601.0	0601.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0601.0	0601.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0659.0	0659.0	U	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0659.0	0659.0	U	51.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0719.4	0719.6	0.4	11.0			
	245	LEAR	49 GB	0729.0	0729.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0729.0	0729.0	1.0	820.0			QL=4 ST=3 TYP=6
	204	IZMI	45 C	0729.6	0729.8	0.6	142.0			
	127	TORN	42 SER	0808.0U	0812.0U	6.0D	470.0	30.0		
	204	IZMI	42 SER	0813.8	0815.7	4.3	102.0			
	204	IZMI	42 SER	0823.1	0823.3	2.5	7.0			
	245	SVTO	8 S	0906.0	0906.0	1.0	410.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1051.4	1055.0	6.7	144.0			
	245	SVTO	4 S/F	1151.0	1157.0	7.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1201.0	1201.0	1.0	70.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1201.0	1201.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1218.0	1218.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1225.0	1225.0	U	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1348.0	1348.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1348.0	1348.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1809.0	1809.0	U	79.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1953.0	1953.0	U	71.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1953.0	1953.0	U	78.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2047.0	2047.0	U	510.0			QL=4 ST=2 TYP=6

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
08	127	TORN	44 NS	1000.0E		180.0D		10.0		V=1
	2840	PEKG	20 GRF	0112.0	0114.2	9.0	7.4			
	500	HIRA	8 S	0114.0	0115.0	1.0	15.0			0
	2840	PEKG	20 GRF	0136.0	0140.2	9.0	2.7			
	2840	PEKG	1 S	0916.0	0921.0	8.0	9.0			
	3000	IZMI	45 C	0920.0	0932.7	15.9	49.0	11.5		
	15400	SVTO	4 S/F	0925.0	0932.0	10.0	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0926.0	0926.0	1.0	100.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0926.0	0926.0	1.0	87.0			QL=4 ST=2 TYP=3
	1415	SVTO	48 C	0926.0	0926.0	8.0	94.0			QL=4 ST=2 TYP=8
	2695	SVTO	4 S/F	0926.0	0932.0	8.0	54.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0926.0	0932.0	9.0	68.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0926.0	0932.0	9.0	71.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0926.0	0926.0	11.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0927.0	0930.0	5.0	190.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0928.5	0930.2	6.0	11.0			
	245	LEAR	8 S	0929.0	0929.0	1.0	200.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0932.0	0932.0	U	53.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0932.0	0932.0	U	59.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0932.0	0932.0	U	60.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0934.0	0934.0	U	31.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0946.0	0946.0	U	82.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0946.0	0946.0	U	96.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2313.0	2313.0	U	34.0			QL=4 ST=2 TYP=3
	2800	HIRA	8 S	2322.0	2322.0	1.0	30.0			0
	2800	PENT	29 PBI	2357.0	2405.0	33.0	28.0			
	2840	PEKG	3 S	2359.0	2404.9	10.0	22.4			
09	127	TORN	43 NS	0958.0		202.0		6.0		V=0
	2800	HIRA	1 S	0004.0	0005.0	2.0	25.0			0
	500	HIRA	7 C	0004.0	0007.0	4.0	20.0			0
	410	LEAR	49 GB	0004.0	0005.0	1.0	560.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0004.0	0005.0	1.0	32.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	0005.0	0005.0	3.0	650.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0016.0	0017.0	1.0	410.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0016.0	0017.0	1.0	24.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0017.0	0017.0	1.0	150.0			0
	245	LEAR	8 S	0017.0	0017.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0017.0	0017.0	U	130.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0017.0	0017.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0230.0	0230.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0231.0	0231.0	1.0	340.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0243.0	0243.0	U	45.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0247.0	0247.0	U	89.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0338.0	0339.0	2.0	91.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0339.0	0339.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0642.0	0645.8	10.0	31.0			
	2800	HIRA	1 S	0644.0	0646.0	4.0	25.0			0
	245	LEAR	8 S	0644.0	0644.0	2.0	120.0			QL=4 ST=2 TYP=3
	500	HIRA	3 S	0645.0	0646.0	4.0	10.0			0
	204	IZMI	7 C	0716.9	0716.9	0.1	10.0			
	204	IZMI	42 SER	0930.6	0930.7	1.1	18.0			
	204	IZMI	42 SER	1005.6	1005.7	0.5	72.0			
	2800	PENT	29 PBI	1728.0	1750.0	37.0	10.0			
	245	SGMR	8 S	1750.0	1750.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1751.0	1751.0	U	190.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	2046.0	2100.0	17.0	5.0			
	245	PALE	8 S	2053.0	2053.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2053.0	2053.0	1.0	89.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2053.0	2053.0	1.0	200.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	2056.8	2056.9	1.1	13.0	6.0		
	245	SGMR	8 S	2057.0	2057.0	U	52.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2057.0	2057.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2058.0	2058.0	U	60.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2058.0	2058.0	U	290.0			QL=4 ST=2 TYP=3
10	204	IZMI	43 NS	0700.0		300.0D		20.0		
	127	TORN	44 NS	1200.0E		113.0D		11.0		V=1
	410	PALE	8 S	0329.0	0329.0	1.0	53.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	245	LEAR	8 S	0352.0	0352.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0539.0	0539.0	U	430.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0845.1	0845.3	0.8	104.0			
	204	IZMI	7 C	0856.8	0856.9	0.3	9.0			
	245	LEAR	8 S	0925.0	0925.0	U	120.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	1002.3	1003.0	1.3	51.0	23.3		
	204	IZMI	45 C	1002.5	1002.5	0.1	137.0			
	245	LEAR	49 GB	1003.0	1003.0	U	1600.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	1003.0	1003.0	U	78.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	1003.0	1003.0	U	230.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	1003.0	1003.1	1.0	3212.0			
	204	IZMI	42 SER	1055.1	1055.4	0.5	238.0			
	245	SGMR	8 S	1252.0	1252.0	U	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1252.0	1252.0	U	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1558.0	1558.0	U	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1609.0	1609.0	U	77.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1622.0	1626.0	8.0	4.0			
	410	SGMR	8 S	1625.0	1626.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1626.0	1626.0	U	450.0			QL=4 ST=2 TYP=3
11	204	IZMI	44 NS	0700.0E		300.0D		20.0		
	127	TORN	44 NS	0700.0E		480.0D		32.0		V=1
	245	PALE	43 NS		1731.0	36.0	99.0			QL=4 ST=2 TYP=1
	204	IZMI	42 SER	0708.0	0708.9	1.3	58.0			
	204	IZMI	41 F	0808.1	0808.3	0.4	37.0			
	245	LEAR	8 S	0840.0	0841.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0840.0	0841.0	1.0	110.0			QL=2 ST=2 TYP=3
	204	IZMI	45 C	0907.7	0907.8	0.5	114.0			
	204	IZMI	42 SER	0929.0	0929.2	0.5	36.0			
	245	SVTO	49 GB	0959.0	0959.0	1.0	1500.0			QL=2 ST=2 TYP=6
	204	IZMI	46 C	0959.8	0959.9	0.7	5908.0			
	33	UPIC	4 S/F	1000.0	1000.5	1.5				
	245	SGMR	8 S	1211.0	1211.0	U	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1211.0	1211.0	U	66.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1222.0	1224.0	2.0	44.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1223.0	1223.0	1.0	66.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1559.0	1559.0	2.0	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1620.0	1620.0	U	67.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1859.0	1859.0	U	52.0			QL=4 ST=2 TYP=3
12	204	IZMI	44 NS	0700.0E		300.0D		35.0		
	127	TORN	44 NS	0700.0E		480.0D		50.0		V=1
	204	TORN	4 S/F		0832.6	1.8	690.0	190.0		
	204	IZMI	42 SER	0935.2	0935.8	0.8	21.0			
	3000	IZMI	22 GRF	0938.5	0939.0	1.2	17.0	6.6		
	204	IZMI	42 SER	0938.5	0938.8	1.4	137.0			
	204	IZMI	42 SER		1138.0	4.0	102.0			
	2800	PENT	24 R	2053.0	2115.0	99.0U	6.0			
13	204	IZMI	44 NS	0700.0E		300.0D		20.0		
	127	TORN	43 NS	0800.0		420.0		28.0		V=1
	245	PALE	43 NS	2150.0	2155.0	8.0	41.0			QL=4 ST=2 TYP=1
	2840	PEKG	3 S	0206.0	0211.3	12.0	12.3			
	245	LEAR	8 S	0211.0	0211.0	U	76.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0211.0	0211.0	1.0	96.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0211.0	0211.0	U	57.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1019.3	1019.6	0.6	23.0			
	204	IZMI	41 F	1046.5	1046.8	0.6	72.0			
	204	IZMI	42 SER	1149.4	1150.1	1.3	92.0			
	33	UPIC	2 S/F	1150.0	1151.0	1.5				
	204	IZMI	41 F	1157.8	1158.0	0.5	228.0			
	2695	PALE	8 S	1918.0	1919.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1918.0	1919.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1918.0	1918.0	2.0	240.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1918.0	1919.0	2.0	380.0			QL=4 ST=2 TYP=3
	1415	SGMR	49 GB	1955.0	1955.0	1.0	540.0			QL=4 ST=2 TYP=6
	245	SGMR	4 S/F	1955.0	1957.0	5.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1957.0	1957.0	1.0	470.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1958.0	1958.0	4.0	100.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

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Mar 03

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
13	245	PALE	8 S	2133.0	2133.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2133.0	2133.0	1.0	100.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2133.0	2133.0	1.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2133.0	2133.0	1.0	240.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2133.0	2133.0	1.0	370.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2134.0	2134.0	U	15.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2134.0	2134.0	U	19.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2134.0	2134.0	U	36.0			QL=4 ST=2 TYP=3
14	204	IZMI	44 NS	0700.0E		300.0D		25.0		
	127	TORN	44 NS	0700.0E		350.0D		41.0		V=2
	4995	PALE	4 S/F	0125.0	0125.0	1355.0	130.0			QL=4 ST=1 TYP=3
	204	IZMI	45 C	0919.9	0920.1	0.5	103.0			
	2840	PEKG	1 S	0925.0	0928.0	6.0	5.3			
	204	IZMI	42 SER	1149.4	1149.6	0.5	58.0			
	245	SGMR	8 S	1505.0	1505.0	U	78.0			QL=4 ST=2 TYP=3
15	204	IZMI	44 NS	0700.0E		300.0D		15.0		
	127	TORN	43 NS	0700.0		480.0D		21.0		V=1
	245	LEAR	8 S	0226.0	0226.0	U	71.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0226.0	0226.0	U	91.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0324.0	0325.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0324.0	0325.0	2.0	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0328.0	0329.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0329.0	0329.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0329.0	0329.0	U	21.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0521.0	0521.0	U	860.0			QL=4 ST=2 TYP=6
	204	IZMI	42 SER	1102.8	1103.8	1.6	24.0			
	245	SGMR	8 S	1324.0	1324.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1326.0	1326.0	1.0	78.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1519.0	1526.0	69.0	70.0			
	8800	SGMR	4 S/F	1521.0	1523.0	5.0	220.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1522.0	1523.0	3.0	75.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1522.0	1523.0	3.0	130.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1522.0	1523.0	3.0	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1522.8	1525.0	6.2	167.0	83.0		
	610	SGMR	8 S	1523.0	1524.0	2.0	160.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1523.0	1523.0	1.0	30.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1524.0	1524.0	2.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1524.0	1526.0	4.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1524.0	1526.0	4.0	200.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1525.0	1526.0	2.0	26.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1525.0	1526.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1525.0	1527.0	3.0	150.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1525.0	1526.0	3.0	63.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1526.0	1527.0	2.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1959.0	2000.0	1.0	34.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1959.0	2002.0	5.0	200.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1959.0	2000.0	3.0	92.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2000.0	2000.0	U	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2000.0	2000.0	2.0	65.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2000.0	2001.0	5.0	280.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2001.0	2001.0	U	29.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2002.0	2004.0	4.0	48.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	2002.0	2014.0	31.0	10.0	5.0		
	9500	CUBA	2 S/F	2002.0	2004.5	4.8	49.0	24.0		
	1415	PALE	8 S	2003.0	2004.0	1.0	24.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2003.0	2006.0	5.0	160.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2003.0	2004.0	3.0	93.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2004.0	2004.0	1.0	31.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2004.0	2004.0	2.0	67.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2004.0	2007.0	6.0	45.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2004.0	2005.0	6.0	330.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2004.0	2005.0	7.0	38.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2041.0	2042.0	2.0	77.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2042.0	2049.0	8.0	42.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2042.0	2046.0	9.0	97.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2046.0	2046.0	U	22.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	2140.0	2149.0	11.0	265.0			ML

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

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
15	L 410	SGMR	8 S	2144.0	2144.0	2.0	210.0			QL=4 ST=2 TYP=3
16	[204	IZMI	44 NS	0700.0E		300.0D		15.0		
	[127	TORN	44 NS	0700.0E		480.0D		20.0		V=2
	[2840	PEKG	1 S	0356.0	0358.0	8.0	6.0			
	[245	LEAR	8 S	0758.0	0758.0	U	70.0			QL=4 ST=2 TYP=3
	[245	SVTO	8 S	0758.0	0758.0	U	76.0			QL=4 ST=2 TYP=3
	[2840	PEKG	45 C	0804.0	0808.2	9.0	14.2			
	[204	IZMI	42 SER	0806.9	0808.3	4.7	246.0			
	[245	LEAR	8 S	0807.0	0808.0	2.0	340.0			QL=4 ST=2 TYP=3
	[245	SVTO	8 S	0807.0	0808.0	2.0	320.0			QL=4 ST=2 TYP=3
	[3000	IZMI	42 SER	0807.0	0808.3	1.9	11.0			
	[410	SVTO	8 S	0808.0	0808.0	U	49.0			QL=4 ST=2 TYP=3
	[245	SVTO	8 S	1558.0	1558.0	2.0	56.0			QL=2 ST=2 TYP=3
	[245	SVTO	8 S	1609.0	1609.0	2.0	75.0			QL=2 ST=2 TYP=3
	[245	SGMR	8 S	1640.0	1640.0	U	51.0			QL=4 ST=2 TYP=3
	[2800	PENT	24 R	2105.0	2130.0	87.0U	5.0			
	[2800	PENT	1 S	2345.0	2352.0	14.0	6.0			
	[2840	PEKG	1 S	2350.0	2352.5	6.0	6.6			
17	[204	IZMI	44 NS	0700.0E		300.0D		15.0		
	[127	TORN	44 NS	0850.0E		180.0D		13.0		V=1
	[2840	PEKG	3 S	0056.0	0100.3	11.0	13.7			
	[8800	LEAR	8 S	0059.0	0100.0	2.0	110.0			QL=4 ST=2 TYP=3
	[15400	LEAR	8 S	0059.0	0100.0	2.0	180.0			QL=4 ST=2 TYP=3
	[8800	PALE	8 S	0059.0	0100.0	2.0	110.0			QL=4 ST=2 TYP=3
	[4995	PALE	4 S/F	0059.0	0100.0	3.0	66.0			QL=4 ST=2 TYP=3
	[15400	PALE	4 S/F	0059.0	0100.0	3.0	210.0			QL=4 ST=2 TYP=3
	[2695	PALE	8 S	0100.0	0100.0	1.0	28.0			QL=4 ST=2 TYP=3
	[33	UPIC	4 S/F	1010.5	1011.0	1.0				
	[3000	IZMI	7 C	1010.6	1011.1	1.4	8.0	2.1		
	[204	IZMI	45 C	1010.7	1011.2	1.2	166.0			
	[410	SGMR	48 C	1149.0	1152.0	5.0	370.0			QL=4 ST=2 TYP=8
	[610	SGMR	8 S	1152.0	1153.0	2.0	330.0			QL=4 ST=2 TYP=3
	[410	SGMR	8 S	1638.0	1639.0	1.0	98.0			QL=4 ST=2 TYP=3
	[610	SGMR	8 S	1638.0	1639.0	2.0	160.0			QL=4 ST=2 TYP=3
	[1415	SGMR	8 S	1639.0	1639.0	U	29.0			QL=4 ST=2 TYP=3
	[2800	PENT	47 GB	1852.0	1901.0	40.0U	567.0			
	[9500	CUBA	1 S	1854.6	1854.8	1.4	7.0	3.0		
	[9500	CUBA	49 GB	1856.0	1858.0	10.0	917.0U	458.0U		
	[9500	CUBA	49 GB	1856.0	1902.0	10.0	917.0U	458.0U		
	[15400	SGMR	48 C	1856.0	1901.0	28.0	2500.0			QL=4 ST=2 TYP=8
	[8800	SGMR	48 C	1856.0	1901.0	71.0	1400.0			QL=4 ST=2 TYP=8
	[1415	PALE	8 S	1857.0	1857.0	U	22.0			QL=4 ST=2 TYP=3
	[245	SGMR	48 C	1857.0	1857.0	4.0	500.0			QL=4 ST=2 TYP=8
	[8800	PALE	48 C	1857.0	1901.0	16.0	1300.0			QL=4 ST=2 TYP=8
	[15400	PALE	48 C	1857.0	1901.0	28.0	2200.0			QL=4 ST=2 TYP=8
	[245	SGMR	48 C	1857.0	1857.0	59.0	500.0			QL=4 ST=2 TYP=8
	[245	PALE	48 C	1857.0	1857.0	61.0	680.0			QL=4 ST=2 TYP=8
	[410	PALE	48 C	1857.0	1906.0	68.0	560.0			QL=4 ST=2 TYP=8
	[4995	PALE	48 C	1857.0	1901.0	68.0	890.0			QL=4 ST=2 TYP=8
	[1415	PALE	48 C	1857.0	1902.0	71.0	320.0			QL=4 ST=2 TYP=8
	[2695	PALE	48 C	1857.0	1902.0	75.0	600.0			QL=4 ST=2 TYP=8
	[410	SGMR	48 C	1857.0	1906.0	72.0	510.0			QL=4 ST=2 TYP=8
	[2695	SGMR	48 C	1857.0	1901.0	73.0	520.0			QL=4 ST=2 TYP=8
	[4995	SGMR	48 C	1857.0	1901.0	70.0	880.0			QL=4 ST=2 TYP=8
	[610	SGMR	49 GB	1858.0	1901.0	66.0	8600.0			QL=4 ST=2 TYP=6
	[1415	SGMR	48 C	1858.0	1901.0	70.0	370.0			QL=4 ST=2 TYP=8
	[610	PALE	8 S	1859.0	1859.0	U	24.0			QL=4 ST=2 TYP=3
	[610	PALE	49 GB	1859.0	1902.0	66.0	7600.0			QL=4 ST=2 TYP=6
	[9500	CUBA	29 PBI	1906.0	1906.0	37.0	22.0	11.0		
	[9500	CUBA	21 GRF	1948.0	1955.0	42.0	15.0			
	[9500	CUBA	1 S	1948.8	1948.9	1.2	16.0	8.0		
	[245	PALE	8 S	2014.0	2014.0	1.0	240.0			QL=4 ST=2 TYP=3
	[245	SGMR	8 S	2014.0	2014.0	1.0	150.0			QL=4 ST=2 TYP=3
	[410	SGMR	8 S	2014.0	2015.0	2.0	100.0			QL=4 ST=2 TYP=3
	[610	SGMR	8 S	2014.0	2015.0	2.0	59.0			QL=4 ST=2 TYP=3
	[1415	SGMR	8 S	2014.0	2015.0	2.0	110.0			QL=4 ST=2 TYP=3
	[4995	SGMR	8 S	2014.0	2014.0	U	31.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

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MARCH 2003

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean (2 Hz)		
17	9500 CUBA	1 S	2014.6	2014.8	0.9	10.0	5.0		
	410 PALE	8 S	2015.0	2015.0	1.0	90.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	2015.0	2015.0	1.0	58.0			QL=4 ST=2 TYP=3
	1415 PALE	8 S	2015.0	2015.0	1.0	99.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	2015.0	2015.0	U	25.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2020.0	2021.0	1.0	170.0			QL=4 ST=3 TYP=3
	1415 SGMR	8 S	2020.0	2021.0	1.0	190.0			QL=4 ST=3 TYP=3
	9500 CUBA	1 S	2020.2	2021.0	1.8	38.0	19.0		
	245 PALE	48 C	2021.0	2024.0	4.0	380.0			QL=4 ST=2 TYP=8
	410 PALE	8 S	2021.0	2021.0	U	120.0			QL=4 ST=2 TYP=3
	1415 PALE	8 S	2021.0	2021.0	U	180.0			QL=4 ST=2 TYP=3
	15400 PALE	8 S	2021.0	2021.0	U	21.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	2021.0	2021.0	8.0	60.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	2021.0	2021.0	U	110.0			QL=4 ST=3 TYP=3
	610 SGMR	8 S	2021.0	2021.0	U	52.0			QL=4 ST=3 TYP=3
	8800 SGMR	8 S	2021.0	2021.0	U	46.0			QL=4 ST=3 TYP=3
	245 SGMR	8 S	2023.0	2023.0	2.0	240.0			QL=4 ST=2 TYP=3
	610 SGMR	4 S/F	2023.0	2024.0	3.0	44.0			QL=4 ST=2 TYP=3
	9500 CUBA	1 S	2023.6	2023.8	1.1	12.0	6.0		
	410 SGMR	8 S	2026.0	2026.0	U	28.0			QL=4 ST=2 TYP=3
	2800 PENT	20 GRF	2050.0	2119.0	53.0	6.0			
	245 SGMR	8 S	2133.0	2133.0	U	120.0			QL=4 ST=2 TYP=3
18	127 TORN	44 NS	0700.0E		420.0D		46.0		V=2
	2800 PENT	1 S	0030.0	0034.0	7.0	15.0			
	2840 PEKG	5 S	0031.0	0034.0	7.0	13.3			
	2800 HIRA	1 S	0033.0	0034.0	2.0	15.0			0
	410 LEAR	8 S	0033.0	0034.0	1.0	170.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0033.0	0034.0	1.0	170.0			QL=4 ST=2 TYP=3
	4995 PALE	4 S/F	0033.0	0034.0	3.0	61.0			QL=4 ST=2 TYP=3
	8800 PALE	4 S/F	0033.0	0034.0	7.0	80.0			QL=4 ST=2 TYP=3
	500 HIRA	8 S	0034.0	0034.0	1.0	40.0			WL
	245 LEAR	8 S	0034.0	0034.0	U	92.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0034.0	0034.0	U	91.0			QL=4 ST=2 TYP=3
	1415 PALE	8 S	0034.0	0034.0	U	57.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0320.0	0320.0	U	96.0			QL=4 ST=2 TYP=3
	2840 PEKG	5 S	0359.0	0403.0	9.0	14.4			
	2800 HIRA	1 S	0403.0	0403.0	2.0	15.0			0
	500 HIRA	7 C	0405.0	0406.0	4.0	20.0			0
	2840 PEKG	1 S	0450.0	0452.3	5.0	3.3			
	500 HIRA	8 S	0452.0	0452.0	1.0	35.0			0
	2840 PEKG	1 S	0532.0	0534.0	4.0	2.6			
	245 LEAR	49 GB	0535.0	0535.0	U	670.0			QL=4 ST=2 TYP=6
	245 SVTO	49 GB	0535.0	0535.0	U	550.0			QL=4 ST=3 TYP=6
	500 HIRA	42 SER	0551.0	0555.0	9.0	105.0			0
	2840 PEKG	45 C	0552.0	0600.0	12.0	37.6			
	610 LEAR	8 S	0553.0	0553.0	1.0	240.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	0553.0	0553.0	1.0	280.0			QL=4 ST=2 TYP=3
	15400 SVTO	8 S	0557.0	0559.0	2.0	62.0			QL=4 ST=2 TYP=3
	610 SVTO	4 S/F	0557.0	0557.0	3.0	80.0			QL=4 ST=2 TYP=3
	2800 HIRA	4 S/F	0558.0	0600.0	3.0	35.0			0
	245 LEAR	49 GB	0558.0	0600.0	3.0	3600.0			QL=4 ST=2 TYP=6
	245 SVTO	49 GB	0558.0	0600.0	3.0	2800.0			QL=4 ST=2 TYP=6
	410 SVTO	8 S	0558.0	0559.0	2.0	320.0			QL=4 ST=2 TYP=3
	1415 SVTO	8 S	0558.0	0600.0	2.0	35.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0558.0	0559.0	2.0	36.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	0558.0	0559.0	1.0	46.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0559.0	0559.0	1.0	130.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0802.0	0802.0	U	31.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0802.0	0802.0	U	38.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	0802.0	0802.0	U	160.0			QL=4 ST=2 TYP=3
	500 HIRA	47 GB	0803.0	0803.0	1.0	530.0			0
	410 SVTO	49 GB	0857.0	0857.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245 SVTO	8 S	0857.0	0857.0	U	160.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	0857.0	0857.0	1.0	340.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0857.0	0858.0	1.0	23.0			QL=4 ST=2 TYP=3
	204 IZMI	42 SER	0857.2	0858.3	1.2	62.0			
	3000 IZMI	42 SER	0857.7	0857.8	0.7	23.0			
	204 IZMI	42 SER	1031.3	1032.8	2.8	9.0			

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

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
18	410	SVTO	49 GB	1053.0	1053.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1054.0	1054.0	U	26.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1133.0	1133.0	1.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1133.0	1133.0	1.0	370.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1133.0	1133.0	3.0	230.0			QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	1133.0	1133.0	3.0	480.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1133.4	1133.5	0.8	42.0			
	245	SVTO	8 S	1140.0	1140.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1146.8	1146.9	0.3	24.0			
	3000	IZMI	46 C	1155.5	1225.6	78.3U	1602.0	510.7		
	8800	SGMR	8 S	1156.0	1156.0	2.0	55.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1156.0	1156.0	U	38.0			QL=4 ST=2 TYP=3
	8800	SGMR	48 C	1158.0	1214.0	95.0	2000.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1158.0	1214.0	95.0	1400.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1159.0	1215.0	90.0	1800.0			QL=4 ST=2 TYP=8
	2695	SGMR	49 GB	1159.0	1225.0	93.0	1500.0			QL=4 ST=2 TYP=6
	1415	SGMR	48 C	1202.0	1255.0	90.0	1500.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1203.0	1206.0	78.0	1200.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	1204.0	1212.0	67.0	450.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1204.0	1212.0	83.0	380.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1204.0	1211.0	84.0	710.0			QL=4 ST=2 TYP=8
	127	TORN	49 GB	1208.8	1214.2	47.0	1600.0	280.0		
	33	UPIC	47 GB	1211.5	1214.0	26.0				
	33	UPIC	4 S/F	1340.0	1340.2	1.5				
	410	SGMR	8 S	1554.0	1554.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1554.0	1554.0	1.0	250.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1609.0	1616.0	13.0	3.0			
	245	SGMR	8 S	1640.0	1640.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1641.0	1641.0	U	88.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1641.0	1641.0	U	36.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1644.0	1644.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1705.0	1705.0	U	140.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1707.0	1708.0	1.0	140.0			QL=4 ST=2 TYP=8
	2800	PENT	1 S	2100.0	2103.0	6.0	2.0			
19	127	TORN	43 NS	0844.0		256.0		7.0		V=0,DISTURBED
	245	PALE	8 S	0221.0	0221.0	U	140.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0301.0	0306.0	9.0	50.0			0
	2840	PEKG	3 S	0302.0	0306.1	13.0	41.3			
	4995	PALE	4 S/F	0304.0	0306.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0305.0	0306.0	1.0	100.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0305.0	0306.0	3.0	52.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0306.0	0306.0	U	64.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0643.0	0646.3	7.0	33.7			
	2800	HIRA	3 S	0645.0	0646.0	4.0	30.0			0
	204	IZMI	41 F	0843.8	0843.9	0.4	18.0			
	8800	SVTO	8 S	0950.0	0951.0	1.0	99.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0950.0	0951.0	4.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0950.0	0951.0	7.0	57.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	0950.9	0951.6	1.3	21.0	8.7		
	2695	SVTO	8 S	0951.0	0951.0	U	30.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	1123.8	1124.2	4.7	24.0	5.0		
	4995	SGMR	8 S	1329.0	1331.0	2.0	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1329.0	1331.0	2.0	39.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1329.0	1331.0	2.0	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1329.0	1331.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1329.0	1331.0	2.0	37.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1329.0	1331.0	2.0	32.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1331.0	1331.0	U	32.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1331.0	1331.0	U	33.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1553.0	1558.0	10.0	7.0			
	2800	PENT	20 GRF	1753.0	1818.0	48.0	4.0			
	2800	PENT	29 PBI	1845.0	1914.0	47.0U	40.0			
	9500	CUBA	2 S/F	1848.0	1848.5	1.6	26.0	13.0		
	9500	CUBA	1 S	1911.0	1911.5	1.0	11.0	5.0		
	245	SGMR	8 S	1918.0	1919.0	1.0	83.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2026.0E	2026.0	214.0D	390.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2026.0E	2026.0	214.0D	280.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2026.0E	2026.0	214.0D	38.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

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MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
19	610	PALE	8 S	2031.0E	2031.0	U	22.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	2035.0	2158.0	91.0	16.0			
	245	SGMR	8 S	2133.0	2133.0	U	40.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2133.0	2133.0	U	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2135.0	2135.0	1.0	15.0			0
	245	SGMR	8 S	2156.0	2156.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2157.0	2158.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2157.0	2159.0	2.0	74.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	2158.0	2158.0	2.0	15.0			0
	500	HIRA	8 S	2158.0	2158.0	2.0	80.0			ML
	2800	HIRA	8 S	2313.0	2313.0	1.0	55.0			0
	2695	PALE	8 S	2313.0	2313.0	1.0	57.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2313.0	2313.0	U	27.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2313.0	2313.0	U	22.0			QL=4 ST=2 TYP=3
20	204	IZMI	43 NS	0728.0		162.0U		20.0		
	127	TORN	43 NS	0856.0		279.0		15.0		V=1
	2840	PEKG	1 S	0152.0	0153.5	6.0	1.5			
	410	LEAR	8 S	0153.0	0153.0	U	180.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0154.0	0154.0	1.0	20.0			WL
	2840	PEKG	45 C	0221.0	0224.8	16.0	57.5			
	2800	HIRA	7 C	0224.0	0225.0	8.0	45.0			0
	2695	PALE	8 S	0224.0	0225.0	1.0	44.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	0337.0	0339.0	5.0	250.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0504.0	0504.0	U	51.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0506.0	0506.0	4.0	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0506.0	0508.2	3.0	29.9			
	500	HIRA	7 C	0507.0	0508.0	3.0	30.0			0
	2800	HIRA	8 S	0508.0	0508.0	1.0	35.0			MR
	410	LEAR	8 S	0728.0	0728.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0728.0	0728.0	1.0	300.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0851.3	0852.4	6.9	69.0			
	1415	SGMR	8 S	1127.0	1127.0	1.0	30.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1127.0	1127.0	1.0	210.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1127.0	1127.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1127.0	1127.0	1.0	83.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	1127.1	1127.7	3.3	234.0	59.5		
	245	SGMR	8 S	1245.0	1245.0	U	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1245.0	1245.0	U	270.0			QL=4 ST=2 TYP=3
21	127	TORN	43 NS	0856.0		216.0U		11.0		V=0, DISTURBED
	2840	PEKG	1 S	0859.0	0901.9	7.0	8.1			
	3000	IZMI	22 GRF	0901.4	0901.9	1.2	8.0	2.8		
22	127	TORN	43 NS	0830.0		282.0		8.0		V=0
	2840	PEKG	1 S	0656.0	0658.4	6.0	2.7			
23	127	TORN	43 NS	0913.0		217.0		17.0		V=1
	235	CUBA	44 NS	1315.0E		285.0D		6.0		
	280	CUBA	44 NS	1315.0E		285.0D		22.0		
	127	TORN	27 RF	1206.0	1215.5	21.4	50.0	46.0		
24	127	TORN	44 NS	1230.0E		90.0D		12.0		V=0
	245	PALE	48 C	0420.0	0424.0	1180.0	130.0			QL=4 ST=1 TYP=8
	410	PALE	4 S/F	0428.0	0428.0	1172.0	78.0			QL=4 ST=1 TYP=3
25	127	TORN	43 NS	0855.0		255.0		10.0		V=0
	235	CUBA	44 NS	1415.0E		245.0D		5.0		
	280	CUBA	44 NS	1415.0E		245.0D		16.0		
	127	TORN	27 RF	1100.7	1103.0	2.7	440.0	360.0		UNCERTAIN
	204	IZMI	42 SER	1143.4	1143.5	0.7	63.0			
26	127	TORN	43 NS	0912.0		270.0		11.0		V=0
	245	SVTO	4 S/F	1619.0	1623.0	5.0	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1623.0	1623.0	U	240.0			QL=4 ST=2 TYP=3
27	204	IZMI	43 NS	0725.0		28.0		10.0		
	127	TORN	43 NS	0830.0		250.0		11.0		V=0
	204	IZMI	43 NS	1115.5		44.5D		10.0		

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

MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (2 Hz)		
27	235	CUBA	44 NS	1425.0E		395.0D		6.0		
	280	CUBA	44 NS	1425.0E		395.0D		22.0		
	2840	PEKG	1 S	0142.0	0145.0	7.0	9.8			
	245	LEAR	8 S	0645.0	0645.0	U	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0645.0	0645.0	U	74.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0657.0	0700.0	12.0	9.5			
	204	IZMI	41 F	0744.2	0744.5	0.9	23.0			
	245	LEAR	8 S	0838.0	0838.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0838.0	0838.0	U	220.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0838.6	0838.8	0.6	141.0			
	204	IZMI	42 SER	1010.9	1011.2	1.5	30.0			
	204	IZMI	42 SER	1112.4	1112.9	0.9	119.0			
	204	IZMI	42 SER	1114.7	1114.8	0.2	22.0			
	245	SGMR	8 S	1238.0	1238.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1238.0	1238.0	U	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1344.0	1344.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1344.0	1344.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1455.0	1456.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1456.0	1456.0	U	71.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1555.0	1555.0	U	370.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1555.0	1555.0	U	490.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1811.0	1811.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1811.0	1811.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1927.0	1927.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1927.0	1927.0	U	98.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2147.0	2159.0	25.0	3.0			
	245	PALE	8 S	2348.0	2348.0	1.0	85.0			QL=4 ST=2 TYP=3
28	127	TORN	43 NS	0735.0		355.0		11.0		V=0
	2840	PEKG	20 GRF	0113.0	0116.5	10.0	2.7			
	204	IZMI	41 F	0735.9	0736.7	1.5	156.0			
	204	IZMI	7 C	0740.8	0740.8	0.3	33.0			
	204	IZMI	42 SER	0756.9	0757.8	1.0	47.0			
	204	IZMI	42 SER	0815.8	0817.9	2.8	17.0			
	204	IZMI	42 SER	0902.6	0902.7	1.5	30.0			
	204	IZMI	42 SER	1104.4	1105.0	2.2	10.0			
	204	IZMI	41 F	1127.9	1128.1	0.4	54.0			
	204	IZMI	7 C	1130.3	1130.4	0.1	7.0			
	204	IZMI	46 C	1130.9	1131.2	1.0	287.0			
	204	IZMI	42 SER	1148.8	1149.0	2.7	70.0			
	204	IZMI	42 SER	1156.2	1156.5	1.0	136.0			
	127	TORN	42 SER	1236.0	1236.8	5.3	280.0	15.0		
	127	TORN	4 S/F	1306.0U	1306.5	1.2D	210.0	70.0		DISTURBED
	8800	PALE	4 S/F	1809.0	1812.0	6.0	27.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1814.0	1816.0	3.0	970.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1815.0	1816.0	1.0	610.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1816.0	1816.0	U	21.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1840.0	1840.0	2.0	2900.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1842.0	1842.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1933.0	1933.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1933.0	1933.0	U	71.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1934.0	1935.0	1.0	260.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1934.0	1934.0	1.0	31.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1934.0	1934.0	1.0	200.0			QL=4 ST=2 TYP=3
29	204	IZMI	43 NS	0700.0		120.0U		10.0		
	127	TORN	43 NS	0810.0		360.0		15.0		V=1
	235	CUBA	44 NS	1700.0E		290.0D		7.0		
	280	CUBA	44 NS	1700.0E		290.0D		18.0		
	245	LEAR	8 S	0723.0	0723.0	U	81.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0927.8	0942.8	17.8	32.0			
	127	TORN	48 C	0928.7	0931.6	9.0	290.0	30.0		
	3000	IZMI	22 GRF	1014.5	1014.8	9.3	11.0	4.5		
	245	SVTO	4 S/F	1018.0	1021.0	3.0	54.0			QL=4 ST=2 TYP=3
	127	TORN	46 C	1018.0	1018.7	3.5	180.0	40.0		
	204	IZMI	42 SER	1018.4	1018.8	1.5	58.0			
	204	IZMI	42 SER	1020.8	1021.0	0.5	134.0			
	410	SVTO	8 S	1021.0	1021.0	U	33.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1304.3	1305.7	5.5	530.0U	140.0U		DISTURBED

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

Outstanding Occurrences

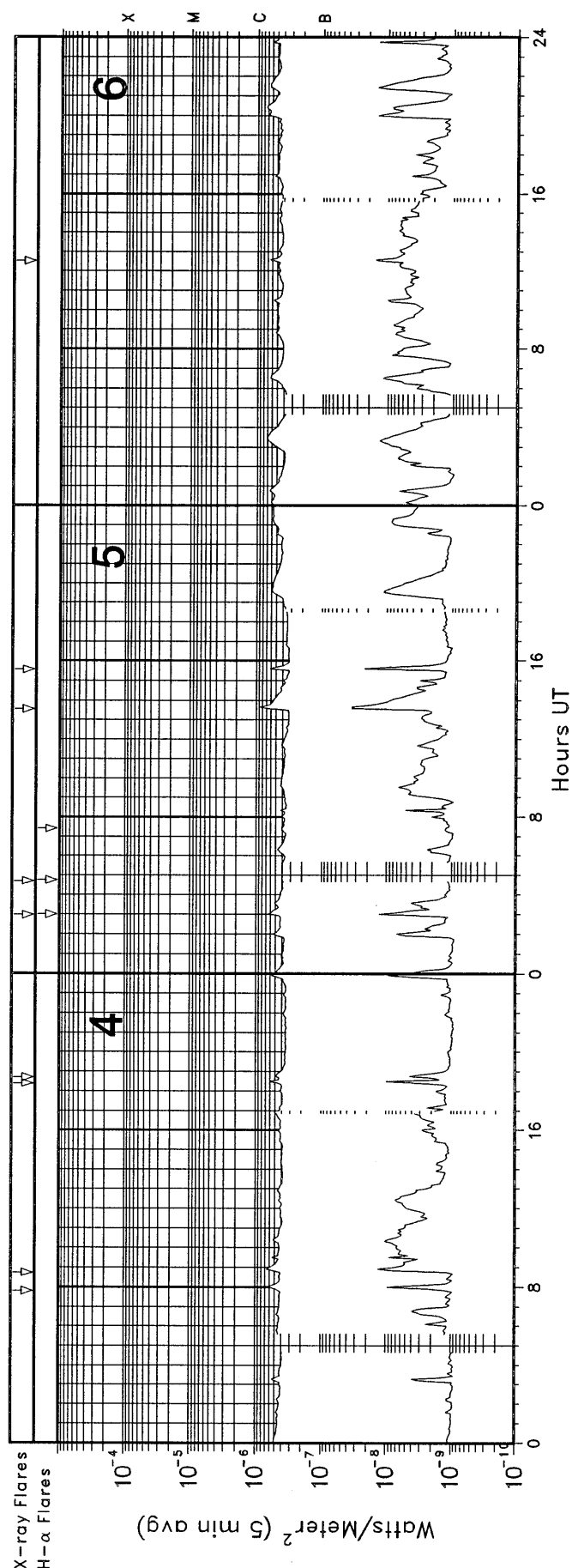
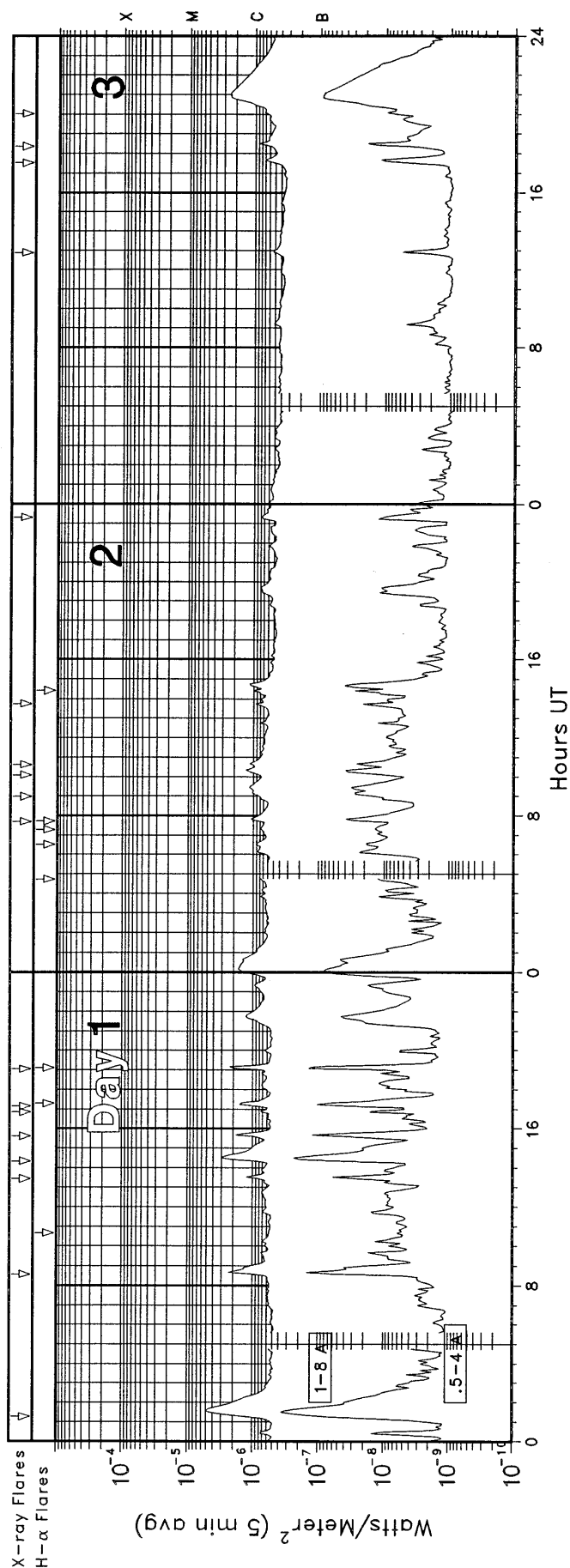
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MARCH 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	33	UPIC	46 C	1304.5	1305.5	4.5				UNCERTN
	2800	PENT	29 PBI	1456.0	1504.0	64.0	28.0			
	2695	PALE	4 S/F	1654.0	1657.0	4.0	100.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1655.0	1657.0	12.0	160.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1656.0	1657.0	2.0	80.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1656.0	1657.0	2.0	170.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1656.0	1657.0	2.0	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1656.0	1657.0	2.0	69.0			QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1656.0	1657.2	4.0	121.0	60.0		
	4995	PALE	8 S	1657.0	1657.0	1.0	130.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1700.0	1700.0		46.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1705.0	1705.0		52.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1755.0	1838.0	97.0U	32.0			
	610	SGMR	48 C	1835.0	1836.0	4.0	420.0			QL=4 ST=2 TYP=8
	410	PALE	4 S/F	1836.0	1839.0	4.0	120.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	1836.0	1836.0	3.0	380.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1836.0	1838.0	3.0	110.0			QL=4 ST=2 TYP=8
	9500	CUBA	20 GRF	1836.0	1839.0	13.0	12.0	6.0		
	245	SGMR	48 C	1837.0	1838.0	2.0	170.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	1838.0	1838.0	1.0	210.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1838.0	1838.0	1.0	41.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1838.0	1838.0	1.0	25.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1838.0	1838.0	1.0	59.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2045.0	2049.0	8.0	6.0			
	2800	PENT	21 GRF	2129.0	2144.0	63.0	5.0			
30	204	IZMI	43 NS	0600.0		360.0D		10.0		
	127	TORN	43 NS	0920.0		220.0		10.0		V=0
	235	CUBA	44 NS	1330.0E		330.0D		9.0		
	280	CUBA	44 NS	1330.0E		330.0D		23.0		
	2840	PEKG	45 C	0115.0	0125.6	28.0	89.7			
	2800	HIRA	7 C	0124.0	0125.0	6.0	70.0			0
	2695	LEAR	8 S	0124.0	0125.0	2.0	73.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0124.0	0125.0	4.0	71.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0124.0	0125.0	4.0	47.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0124.0	0125.0	2.0	79.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0125.0	0125.0		22.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0125.0	0125.0	1.0	68.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0125.0	0125.0		23.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0158.0	0158.0	1.0	40.0			0
	410	LEAR	8 S	0158.0	0158.0		150.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0158.0	0158.0		36.0			QL=4 ST=2 TYP=3
	2800	PENT	24 R	1733.0	1911.0	119.0U	6.0			
	500	HIRA	8 S	2146.0	2146.0	1.0	15.0			0
31	127	TORN	44 NS	0830.0E		240.0D		13.0		V=0
	235	CUBA	44 NS	1330.0E		500.0D		6.0		
	280	CUBA	44 NS	1330.0E		500.0D		23.0		
	2840	PEKG	45 C	0413.0	0417.2	10.0	5.6			
	2800	PENT	29 PBI	1601.0	1619.0	31.0U	9.0			
	2800	PENT	29 PBI	2110.0	2123.0	82.0U	9.0			

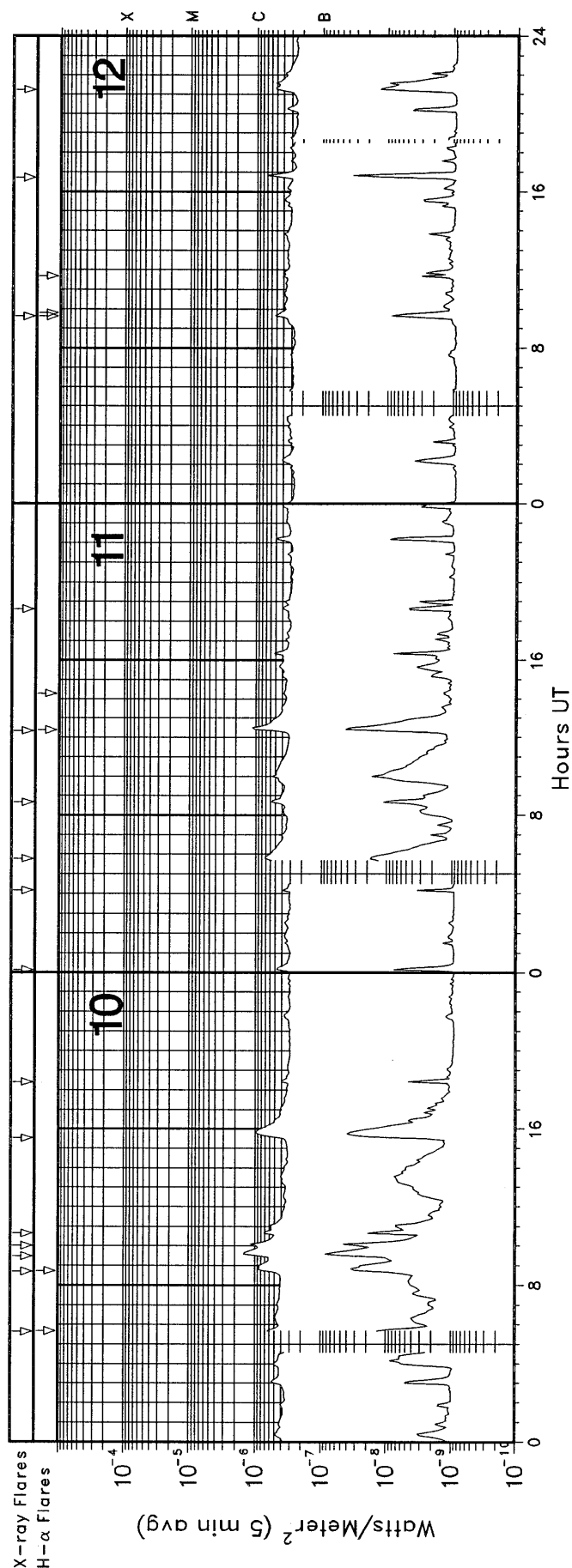
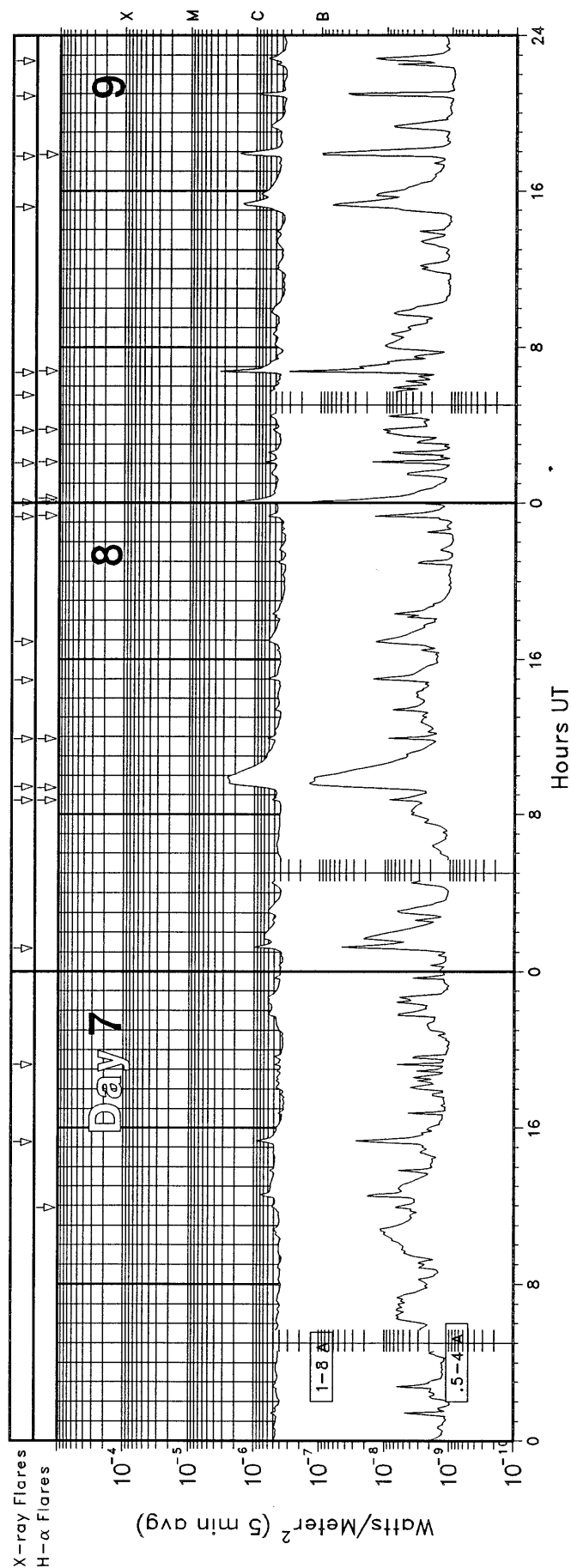
GOES X-RAY DETECTOR

March 2003

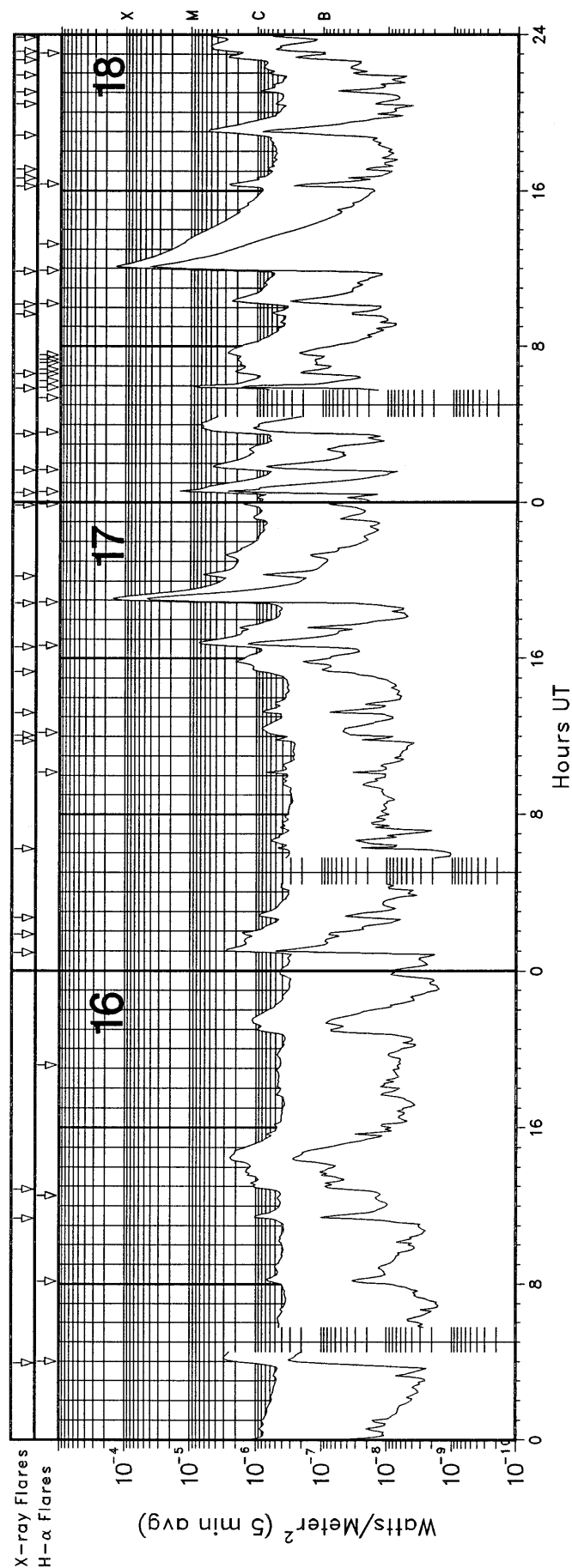
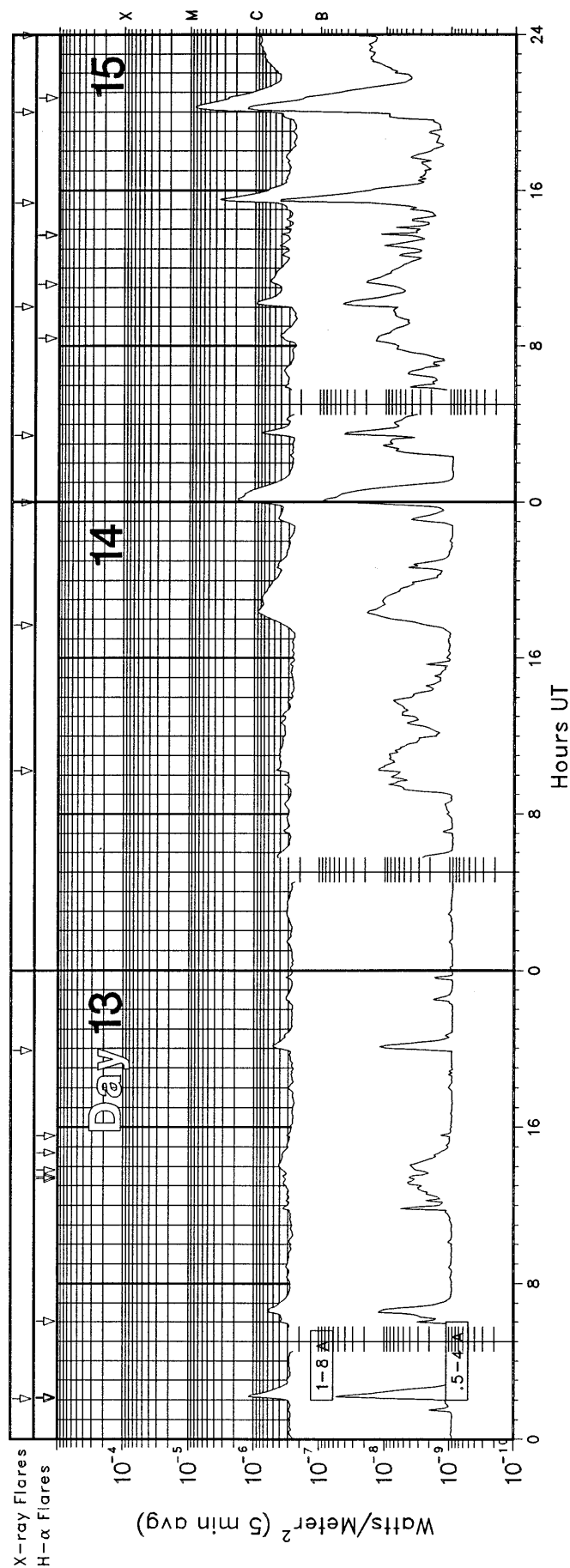


GOES X-RAY DETECTOR

March 2003

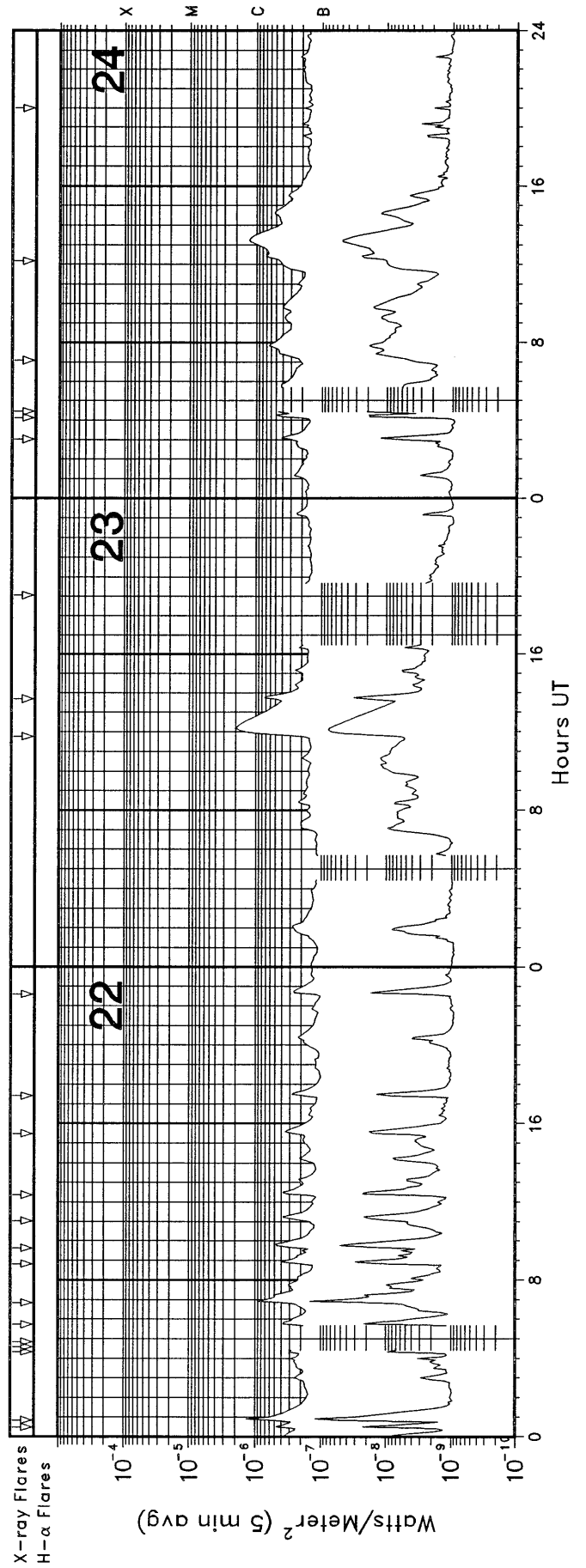
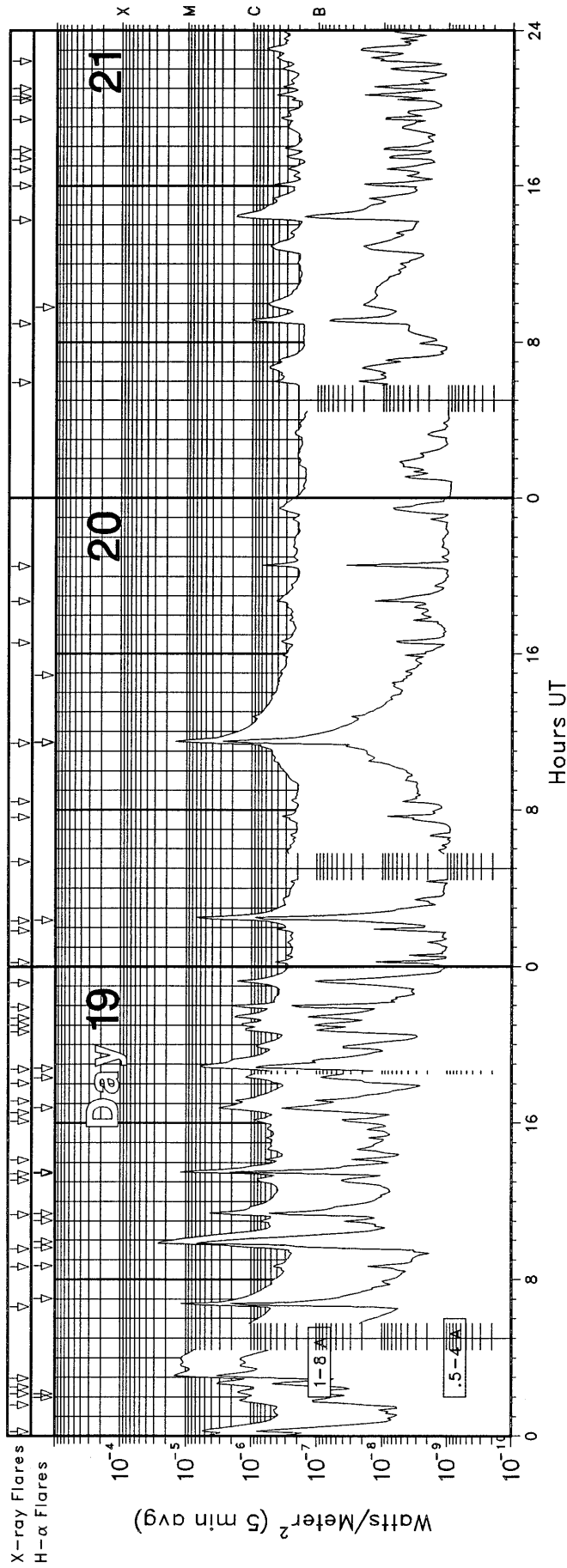


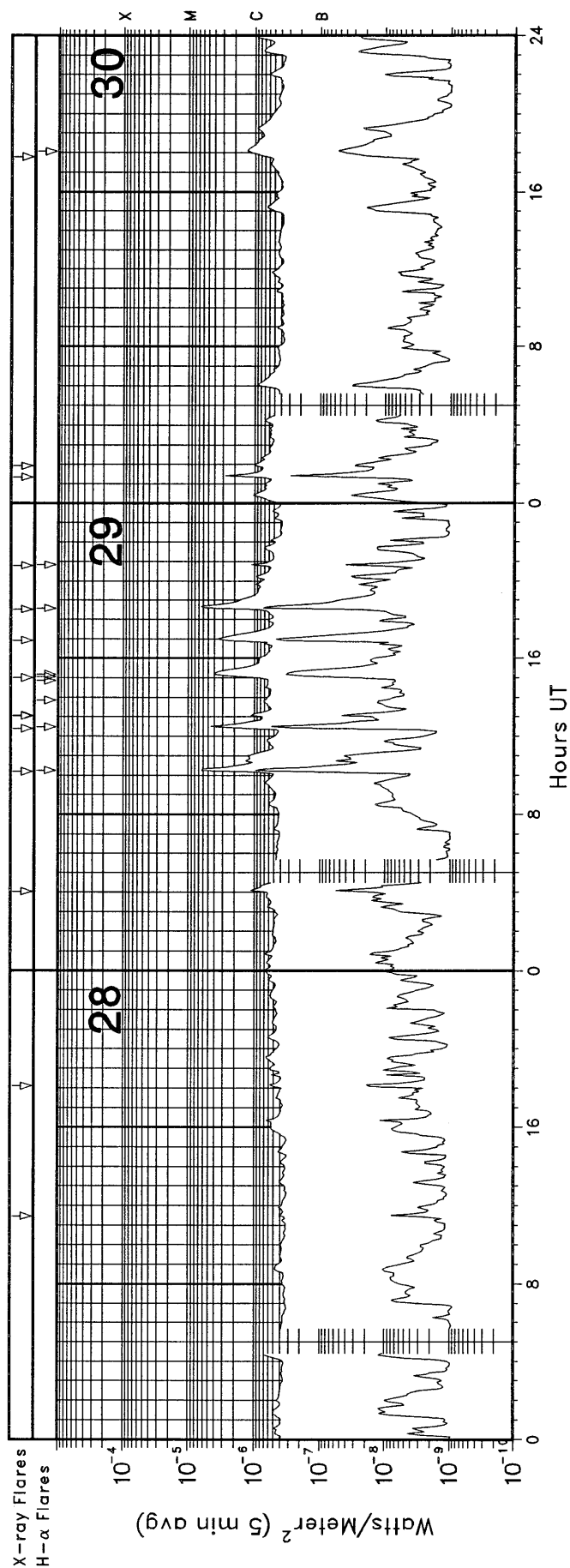
GOES X-RAY DETECTOR March 2003



GOES X-RAY DETECTOR

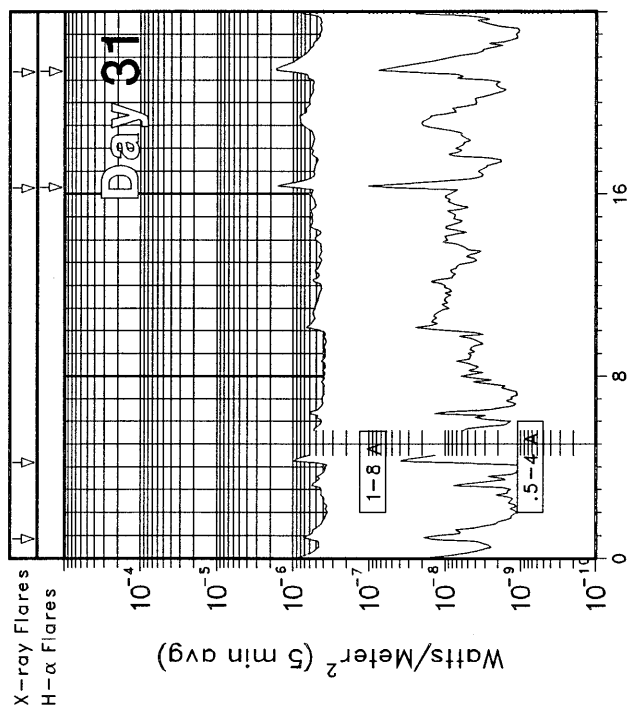
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GOES X-RAY DETECTOR

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GOES S O L A R X-RAY F L A R E S
Preliminary Listing

March 2003

NOAA/USAF									NOAA/USAF										
Start	Max	End				Imp			Start	Max	End				Imp				
Day (UT)	(UT)	(UT)	Lat	CMD	Opt	Xray	Region	Flux	Day (UT)	(UT)	(UT)	Lat	CMD	Opt	Xray	Region	Flux		
01	0116	0136	0152			C5.1		7.7E-03	11	0546	0550	0552			B7.3		2.6E-04		
01	0834	0842	0849			C2.4	10292	1.5E-03	11	0840	0845	0848			B6.2		2.7E-04		
01	1326	1332	1338			C1.2		7.8E-04	11	1221	1230	1238	S14	W62	SF	C1.2	10304	9.4E-04	
01	1420	1432	1444			C3.0	10292	3.1E-03	11	1837	1840	1842			B5.3		1.3E-04		
01	1537	1542	1547			C1.9	10296	9.3E-04											
01	1650	1654	1658			B8.4	10296	3.6E-04	12	0937	0940	0943	N08	E13	SF	B6.1	10306	1.8E-04	
01	1709	1719	1723	N11	E62	SF	C2.1	10296	1.1E-03	12	1643	1652	1656			B8.4	10306	4.3E-04	
01	1903	1909	1912	N13	E78	SF	C3.5	10296	1.1E-03	12	2114	2117	2126			B5.6	10306	3.7E-04	
02	0742	0752	0758	S09	W73	SF	C1.1	10292	9.0E-04	13	0204	0213	0221			C1.3	10311	9.3E-04	
02	0859	0927	0941			C1.1	10292	2.6E-03	13	1954	2010	2026			B5.1		8.4E-04		
02	1005	1021	1028			C1.3	10292	1.5E-03											
02	1037	1039	1044			C1.2	10292	4.7E-04	14	1013	1017	1035			B4.7		5.5E-04		
02	1345	1346	1348			C1.0	10296	1.7E-04	14	1741	1825	1847			B9.2		2.6E-03		
02	2320	2324	2327			B7.7		3.2E-04	14	2359	2409	2433			C1.8		3.0E-03		
03	1253	1257	1259			B5.3	10294	1.8E-04	15	0327	0336	0344			B8.1	10314	6.6E-04		
03	1731	1741	1747			B6.9		5.9E-04	15	1002	1015	1029			B9.6		1.2E-03		
03	1822	1830	1835			B9.5	10296	5.7E-04	15	1521	1530	1540			C3.7	10314	2.8E-03		
03	2002	2105	2144			C2.4		9.8E-03	15	2000	2016	2032			C8.4	10314	1.1E-02		
04	0748	0802	0809			B6.4		6.5E-04	15	2359	2403	2406			C1.3		5.0E-04		
04	0844	0856	0908			B6.7		7.9E-04	16	0355	0415	0432	S15	W15	SF	C3.0	10314	5.7E-03	
04	1824	1831	1835			B6.6		3.4E-04	16	1121	1129	1138			C1.0		9.1E-04		
04	1842	1848	1853			B5.0		3.1E-04	16	1251	1312	1323			C1.2		1.9E-03		
05	0257	0301	0313	N15	E21	SF	B6.5	10296	5.6E-04	17	0055	0103	0117			C3.1		2.7E-03	
05	0442	0448	0500	N18	E57	SF	B7.0	10302	6.5E-04	17	0150	0155	0158			C1.8		7.7E-04	
05	1333	1339	1348			B9.8	10301	6.5E-04	17	0240	0247	0302			B9.1		1.0E-03		
05	1533	1537	1542			B6.8	10296	3.0E-04	17	0613	0617	0620			B5.1		1.8E-04		
06	1231	1234	1238			B7.9		2.7E-04	17	1147	1152	1156			B5.7		2.5E-04		
07	1516	1521	1526			B9.5	10301	4.9E-04	17	1204	1226	1244			B8.3		1.7E-03		
07	1915	1918	1920			B5.6	10308	1.4E-04	17	1313	1318	1326			B8.7		5.6E-04		
08	0111	0116	0123			C1.0	10301	5.8E-04	17	1518	1551	1610			C2.1		4.2E-03		
08	0843	0846	0848			B5.9	10297	1.6E-04	17	1635	1650	1701	S14	W39	SF	C7.7	10314	7.8E-03	
08	0925	0957	1014	N06	E69	SF	C2.6	10306	6.3E-03	17	1850	1905	1916	S14	W39	1B	X1.5	10314	1.3E-01
08	1153	1156	1159			B6.9	10297	2.2E-04	17	2014	2021	2028			C6.9		4.5E-03		
08	1456	1503	1507			B6.4	10308	3.6E-04	17	2352	2356	0000	S16	W43	SF	C1.7	10314	7.3E-04	
08	1654	1700	1704			B6.1		3.6E-04	18	0030	0037	0042	S15	W44	1N	M1.6	10314	6.9E-03	
08	2318	2323	2327	S14	W28	SF	B7.3	10304	3.2E-04	18	0139	0153	0206	S15	W45	1F	C4.7	10314	5.3E-03
09	0002	0007	0010	S15	W31	SF	C2.6	10304	7.3E-04	18	0332	0405	0426	S15	W43	SF	C7.5	10314	1.7E-02
09	0202	0206	0209	N06	E64	SF	B7.8	10306	2.7E-04	18	0551	0600	0602	S15	W46	1B	M2.5	10314	4.9E-03
09	0342	0345	0347	N03	E61	SF	B6.4	10306	1.7E-04	18	0636	0645	0658	S15	W45	SF	C2.1	10314	2.4E-03
09	0531	0536	0542			B8.3		4.6E-04	18	0940	0944	0949			B6.9		3.1E-04		
09	0641	0647	0650	S18	W38	SF	C4.4	10304	1.3E-03	18	1009	1023	1039			C2.4		2.9E-03	
09	1510	1520	1528			C1.6	10304	1.4E-03	18	1151	1208	1220	S15	W46	1B	X1.5	10314	1.3E-01	
09	1747	1754	1802	S16	W46	SF	C2.0	10310	1.2E-03	18	1612	1620	1627	S16	W48	SF	C2.8	10314	2.0E-03
09	2053	2101	2103			C1.2	10304	5.0E-04	18	1638	1641	1643			C1.3		3.2E-04		
09	2242	2250	2254			B6.7	10297	4.0E-04	18	1705	1708	1710			B8.4		2.1E-04		
10	0538	0543	0546			B6.3		1.5E-04	18	1849	1903	1915			C5.9		5.6E-03		
10	0842	0853	0910	N03	E45	SF	B9.2	10306	1.4E-03	18	2024	2028	2031			B6.4		2.2E-04	
10	0929	0939	0949			C1.5	10297	1.5E-03	18	2101	2106	2114			B8.9		5.8E-04		
10	1001	1005	1009			C1.3	10306	5.4E-04	18	2154	2201	2209			B7.5	10314	5.4E-04		
10	1039	1044	1048			B8.2	10297	3.8E-04	18	2241	2254	2303			C2.9		2.8E-03		
10	1531	1553	1612			B9.7	10308	1.9E-03	18	2308	2328	2341	S13	W55	2F	C5.1	10314	8.4E-03	
10	1824	1828	1830			B4.1		1.4E-04	18	2351	2402	2408			C5.3		4.7E-03		
11	0008	0012	0022			B4.9	10304	3.8E-04	19	0013	0018	0023			C6.2		3.0E-03		
11	0409	0412	0415			B4.3		1.4E-04	19	0135	0150	0206	S15	W54	SF	C1.5	10314	2.0E-03	
									19	0210	0215	0223	S14	W56	1N	C1.7	10314	1.1E-03	
									19	0230	0244	0251			C3.4		2.9E-03		
									19	0258	0307	0421			M1.5		5.2E-02		
									19	0636	0646	0649	S12	W60	2F	M1.6	10314	5.2E-03	

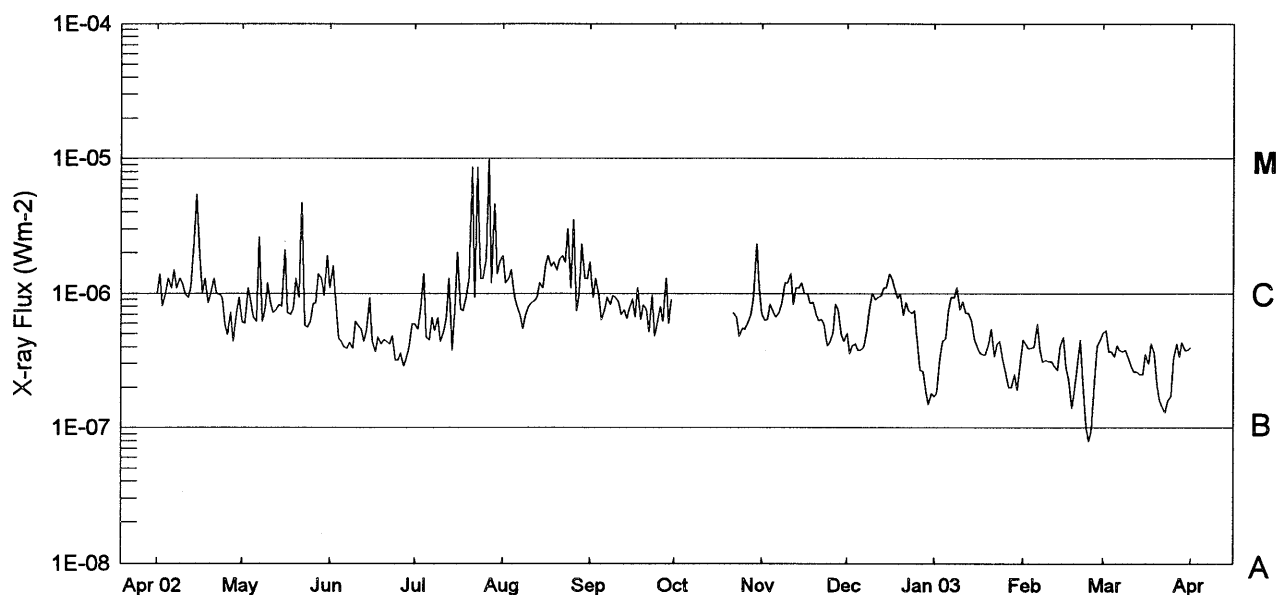
GOES S O L A R X-RAY F L A R E S
Preliminary Listing

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Mar 03

March 2003

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
19	0839	0842	0844			B5.3		1.4E-04
19	0934	0953	1000	S15	W57	1N	M3.7 10314	1.8E-02
19	1120	1125	1129	S15	W58	SF	C5.8 10314	1.7E-03
19	1305	1309	1311			C1.0		3.1E-04
19	1325	1332	1338	S07	W61	2F	M1.4 10314	5.8E-03
19	1407	1411	1414			B7.1		2.4E-04
19	1606	1610	1613			C1.1		3.9E-04
19	1632	1648	1658	S11	W66	SF	C3.2 10314	2.9E-03
19	1707	1711	1714			C1.9		6.9E-04
19	1802	1821	1834	S11	W66	SF	C1.3 10314	1.6E-03
19	1845	1854	1904	S14	W64	SF	C6.3 10314	5.0E-03
19	2039	2051	2055			C1.3		1.0E-03
19	2100	2104	2107			C1.8 10314		6.5E-04
19	2122	2128	2132			C2.2 10314		9.7E-04
19	2155	2200	2202			C3.5 10314		8.1E-04
19	2310	2315	2319			C2.0 10314		7.6E-04
20	0013	0016	0019			B5.1 10314		1.5E-04
20	0151	0157	0159			B4.9 10314		1.8E-04
20	0221	0231	0234	S13	W72	SF	C9.2 10314	3.5E-03
20	0520	0524	0529			B4.2		2.0E-04
20	0737	0741	0743			B3.8 10314		1.2E-04
20	0826	0829	0832			B3.0 10314		9.2E-05
20	1125	1131	1137	S04	W75	1F	M1.5 10314	7.9E-03
20	1635	1639	1644			B4.0 10314		1.9E-04
20	1844	1848	1852			B4.6 10314		2.0E-04
20	2031	2036	2039			B8.6 10314		2.5E-04
21	0556	0601	0605			B4.9		2.2E-04
21	0858	0910	0917			C1.1 10314		8.5E-04
21	1415	1429	1441			C1.8 10314		1.9E-03
21	1600	1604	1609			B5.2 10314		2.3E-04
21	1650	1654	1657			B3.5 10314		1.3E-04
21	1724	1728	1736			B3.3 10314		2.1E-04
21	1750	1755	1758			B4.1 10314		1.5E-04
21	1925	1930	1933			B4.7 10314		1.8E-04
21	2024	2028	2031			B2.8 10314		1.1E-04
21	2036	2042	2047			B4.6 10314		2.5E-04
21	2100	2106	2113			B3.7 10314		2.4E-04
21	2225	2238	2244			B4.9 10314		4.6E-04
22	0028	0031	0037			B5.5 10314		2.3E-04
22	0050	0055	0057			C2.3 10314		4.5E-04
22	0420	0424	0427			B4.0 10314		1.4E-04
22	0435	0442	0448			C1.0 10314		5.2E-04
22	0450	0453	0455			B8.0 10314		2.1E-04
22	0543	0549	0552			B5.2 10314		2.0E-04
22	0650	0658	0701			C1.3 10314		4.5E-04
22	0849	0857	0906			B4.0 10314		3.2E-04
22	0938	0949	0959			B5.1 10314		4.9E-04
22	1102	1116	1124			B4.0 10314		3.8E-04
22	1222	1230	1241			B3.8 10314		3.5E-04
22	1529	1537	1547			B3.5 10314		3.3E-04
22	1724	1732	1741			B2.9 10314		2.4E-04
22	2236	2245	2303			B2.6 10314		3.6E-04
23	1146	1214	1247			C1.9 10318		5.0E-03
23	1341	1347	1354			B7.3 10321		5.1E-04
23	1903	1910	1917			C1.1 10321		6.0E-04
Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
24	0301	0306	0313			B4.2 10321		2.7E-04
24	0407	0415	0421			B5.6 10321		3.3E-04
24	0426	0431	0435			C2.0 10321		6.9E-04
24	0705	0752	0815			B6.3 10321		1.9E-03
24	1210	1317	1330			C1.2 10321		4.0E-03
24	1959	2002	2004			B2.1 10318		5.4E-05
25	0011	0019	0022			B4.7 10321		1.8E-04
25	0100	0103	0106			B2.5		7.6E-05
25	0150	0154	0157			B4.9 10321		1.4E-04
25	0210	0216	0218			B7.3		1.9E-04
25	0538	0542	0544			B3.5		9.7E-05
25	1001	1005	1010			B3.4		1.5E-04
25	1245	1301	1304	N10	E33	SF	B3.8 10319	3.4E-04
25	1533	1536	1541	N07	E72	SF	B5.8 10321	2.3E-04
25	1602	1605	1609	S01	E72	SF	B4.9 10321	1.6E-04
25	1624	1628	1630	N05	E69	SF	B4.9 10321	1.3E-04
25	1631	1636	1639	N06	E71	SF	B9.1 10321	3.0E-04
26	0141	0149	0158			B9.5		7.1E-04
26	0426	0431	0436			B5.1		2.7E-04
26	0750	0754	0757	N00	E65	SF	B8.9 10321	3.0E-04
26	1705	1710	1717	S01	E60	SF	C2.2	1.2E-03
26	2138	2142	2144			C1.3 10321		3.2E-04
27	0105	0109	0111			B8.6 10322		2.1E-04
27	0156	0201	0214			C2.2 10325		1.7E-03
27	0412	0416	0418			C1.2 10319		3.3E-04
27	0531	0540	0551			C1.2 10319		1.3E-03
27	0656	0701	0715			C1.3 10321		1.1E-03
27	0940	0945	0949			C3.6 10322		1.1E-03
27	1449	1455	1505			C2.3 10322		1.6E-03
27	1938	1943	1951			C1.6 10320		9.1E-04
27	2307	2325	2333			C1.0		1.3E-03
28	1127	1130	1132			B4.6		1.2E-04
28	1806	1809	1811			B8.2		1.9E-04
29	0402	0407	0414			C1.1		7.1E-04
29	1011	1015	1025	S12	W14	SF	C7.2 10318	4.1E-03
29	1224	1230	1235	S09	E05	SF	C5.7 10323	2.1E-03
29	1303	1308	1313			C1.2		6.3E-04
29	1304	1308	1312			C1.1		5.2E-04
29	1500	1514	1528	S11	W19	SF	C4.2 10318	4.9E-03
29	1655	1658	1709			C4.7		2.6E-03
29	1831	1839	1846	S13	W21	1F	C8.2 10318	4.2E-03
29	2047	2051	2054	S11	W21	SF	C1.3 10318	4.2E-04
30	0121	0125	0129			C3.6 10323		1.0E-03
30	0155	0159	0202			C1.1		4.3E-04
30	1747	1807	1846	N01	W02	SF	C1.3 10321	3.5E-03
31	0051	0055	0104			B7.5		5.3E-04
31	0411	0418	0427			C1.2 10318		7.9E-04
31	1615	1622	1629	S07	W26	SF	C1.6 10323	1.1E-03
31	2121	2129	2141	S12	E38	SF	C1.8 10326	1.8E-03

Preliminary GOES Satellite Daily X-Ray Background Apr 2002 - Mar 2003



Day	Apr 02	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 03	Feb	Mar
1	C1.0	C1.9	C1.1	B5.9	C1.9	C1.7	*	B7.0	B5.0	B1.7	B4.5	B5.1
2	C1.4	C1.2	C1.6	B5.4	C1.2	B9.4	*	B6.3	B3.6	B1.8	B4.2	B5.3
3	B8.1	C1.3	B9.0	B7.5	C1.3	C1.3	*	B6.4	B4.1	B3.3	B3.9	B3.7
4	C1.0	C1.5	B4.6	C1.4	C1.5	B9.7	*	B8.3	B4.2	B4.4	B3.9	B3.7
5	C1.3	B9.5	B4.4	B4.7	B9.5	B6.4	*	B7.3	B3.8	B4.6	B4.0	B3.4
6	C1.1	B8.0	B4.0	B4.5	B8.0	B7.5	*	B6.7	B3.8	B7.4	B5.9	B4.1
7	C1.5	B6.8	B3.9	B6.6	B6.8	B9.4	*	B7.2	B4.0	B9.3	B3.8	B3.8
8	C1.1	B5.5	B4.3	B5.3	B5.5	B8.3	*	B8.4	B5.0	B9.4	B3.1	B3.7
9	C1.3	B6.8	B3.9	B6.5	B6.8	B9.6	*	C1.2	B7.7	C1.1	B3.2	B3.8
10	C1.2	B8.0	B6.2	B4.4	B8.0	B9.3	*	C1.2	C1.0	B7.6	B3.1	B3.3
11	C1.0	B8.5	B5.8	B5.2	B8.5	B8.7	*	C1.4	B9.1	B8.7	B3.1	B2.9
12	B9.3	B8.9	B5.4	B6.5	B8.9	B7.0	*	B8.3	B9.4	B7.1	B2.9	B2.6
13	C1.1	B9.3	B4.4	C1.3	B9.3	B7.5	*	C1.1	B9.7	B7.1	B2.7	B2.6
14	C2.4	C1.2	B5.2	B3.8	C1.2	B6.5	*	C1.1	C1.1	B6.2	B4.1	B2.5
15	C5.4	C1.1	B9.2	B7.3	C1.1	B7.7	*	C1.2	C1.1	B4.6	B4.7	B2.5
16	C1.9	C1.6	B4.4	C2.0	C1.6	B9.0	*	C1.0	C1.4	B4.1	B2.8	B3.5
17	C1.0	C1.9	B3.7	B7.6	C1.9	B6.7	*	C1.0	C1.3	B3.6	B2.3	B3.0
18	C1.3	C1.6	B4.7	B7.4	C1.6	C1.1	*	B8.5	C1.1	B3.5	B1.4	B4.2
19	B8.6	C1.7	B4.2	B9.7	C1.7	B6.4	*	B8.6	B9.2	B3.5	B1.9	B3.6
20	C1.0	C1.5	B4.5	C1.3	C1.5	B8.2	*	B7.1	C1.0	B4.2	B2.8	B2.1
21	C1.3	C1.8	B4.4	C8.6	C1.8	B7.6	*	B6.3	B6.9	B5.4	B4.5	B1.6
22	C1.0	C1.9	B4.2	B9.3	C1.9	B5.2	B7.1	B6.4	B8.6	B3.4	B2.2	B1.4
23	B9.9	C1.7	B4.8	C8.6	C1.7	B9.7	B6.7	B5.9	B7.4	B4.2	B1.0	B1.3
24	B9.2	C3.0	B3.2	C1.3	C3.0	B4.8	B4.8	B4.1	B7.1	B4.4	A8.0	B1.6
25	B5.9	C1.1	B3.2	C1.3	C1.1	B6.0	B5.5	B4.3	B7.4	B3.2	A9.4	B1.7
26	B4.9	C3.5	B3.6	C1.8	C3.5	B7.9	B5.4	B5.1	B4.2	B2.6	B2.2	B3.3
27	B7.2	B7.4	B2.9	C9.8	B7.4	B6.2	B6.0	B8.3	B2.7	B2.0	B4.1	B4.2
28	B4.4	C1.0	B3.3	C1.2	C1.0	C1.3	B6.9	B7.6	B2.6	B2.0	B4.5	B3.4
29	B7.1	C2.3	B3.9	C4.6	C2.3	B6.0	B9.4	B4.9	B1.9	B2.5		B4.3
30	B9.4	C1.3	B5.9	C1.4	C1.3	B9.0	C2.3	B4.4	B1.5	B1.9		B3.8
31		C1.3		C1.7	C1.3		C1.1		B1.8	B2.8		B3.8

NOTE: * = Data not available.

ACTIVE PROMINENCES AND FILAMENTS

33
Mar 03

MARCH 2003

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
13	DSF	0957U	2332U	N46	E37	03 16.5		09	0	0	E	LEAR		
13	DSF	1358U	0624U	N35	E53	03 17.8		13	0	0	E	SVTO		
13	DSF	1358U	0624U	S16	W27	03 11.5		10	0	0	E	SVTO		
15	DSF	0958U	2325U	S22	W62	03 10.6		30	0	0	E	LEAR		
18	DSF	0008U	1624U	S43	W62	03 12.9		30	0	0	E	HOLL		
18	DSF	1320	1403	N17	E38	03 21.4	3	12	9	9	E	RAMY		
18	DSF	1326	1401	N13	E40	03 21.6	3	10	9	9	E	SVTO		
19	DSF	1454U	0902	N09	E10	03 20.4		06	0	0	E	SVTO		
20	DSF	0954U	2325U	S14	E06	03 20.9		19	0	0	E	LEAR		
20	DSF	2314U	1434U	N06	E53	03 24.9		26	0	0	E	HOLL		
21	DSF	0706	2322U	N11	E56	03 25.5		07	0	0	E	LEAR		
21	DSF	0915	0955	N12	E59	03 25.8	3	13	9	9	E	SVTO		
21	DSF	0925	0955	S24	E12	03 22.3	3	13	9	9	E	SVTO		
24	DSF	0045U	1344U	S26	W09	03 23.3	2	08	0	0	E	HOLL		
25	DSF	1638U	0524U	N32	W05	03 25.3		12	0	0	E	SVTO		
25	DSF	1703	1812U	N38	W10	03 24.9	3	07	0	0	E	HOLL		
30	DSF	1625U	0757U	S41	E63	04 4.8		19	0	0	E	SVTO		

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
ATHN = Athens
BUCA = Bucharest
CATA = Catania

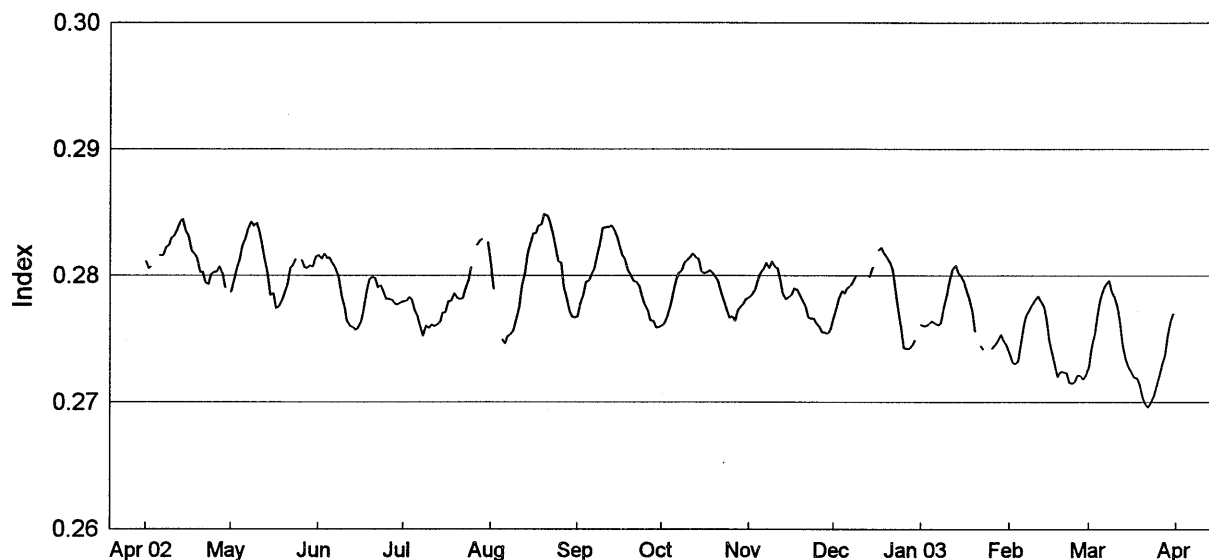
HOLL = Holloman
KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua

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

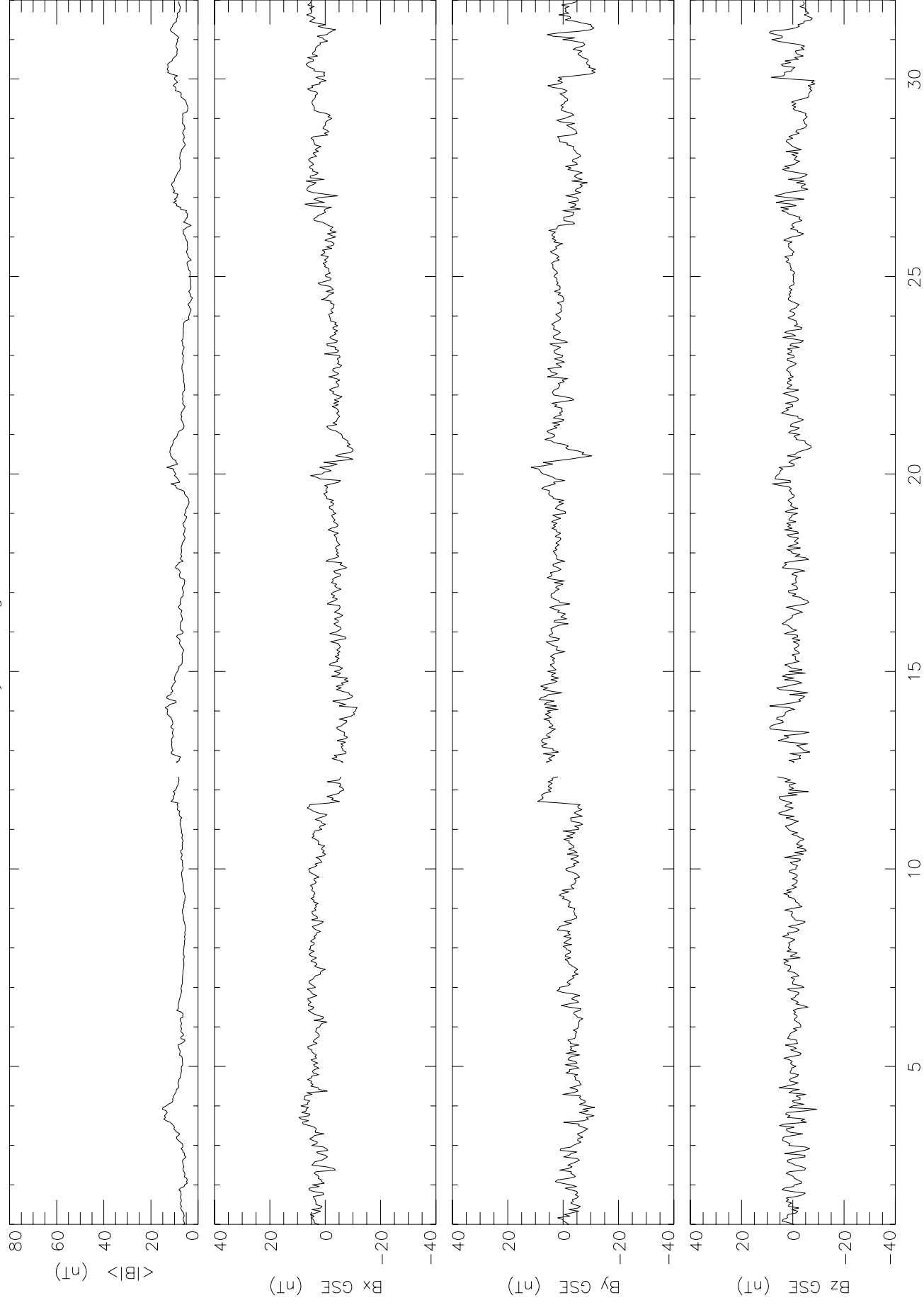
Apr 2002 - Mar 2003
Version 9.1



Day	Apr 02	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 03	Feb	Mar
1	0.2811	0.2787	0.2816	0.2780	0.2808	0.2768	0.2760	0.2783	0.2767	0.2761	0.2738	0.2728
2	0.2806	0.2795	0.2813	0.2780	0.2789	0.2778	0.2762	0.2785	0.2774	0.2760	0.2732	0.2743
3	0.2807	0.2806	0.2817	0.2783	---	0.2785	0.2767	0.2789	0.2782	0.2760	0.2730	0.2754
4	---	0.2812	0.2814	0.2781	---	0.2795	0.2775	0.2796	0.2788	0.2762	0.2732	0.2769
5	---	0.2823	0.2814	0.2773	0.2749	0.2796	0.2785	0.2802	0.2786	0.2764	0.2745	0.2781
6	0.2816	0.2829	0.2809	0.2767	0.2746	0.2801	0.2796	0.2805	0.2790	0.2762	0.2761	0.2789
7	0.2816	0.2836	0.2806	0.2759	0.2752	0.2805	0.2802	0.2810	0.2792	0.2761	0.2769	0.2793
8	0.2822	0.2842	0.2799	0.2752	0.2753	0.2817	0.2804	0.2806	0.2795	0.2762	0.2772	0.2796
9	0.2824	0.2839	0.2786	0.2760	0.2756	0.2825	0.2810	0.2811	0.2800	0.2775	0.2777	0.2788
10	0.2829	0.2841	0.2776	0.2758	0.2764	0.2837	0.2812	0.2807	---	0.2784	0.2781	0.2784
11	0.2831	0.2834	0.2764	0.2761	0.2774	0.2838	0.2814	0.2806	---	0.2797	0.2784	0.2776
12	0.2835	0.2824	0.2760	0.2760	0.2791	0.2838	0.2817	0.2797	0.2785	0.2805	0.2780	0.2763
13	0.2842	0.2813	0.2759	0.2761	0.2802	0.2839	0.2815	0.2786	---	0.2808	0.2775	0.2746
14	0.2844	0.2801	0.2757	0.2763	0.2817	0.2836	0.2813	0.2782	0.2799	0.2802	0.2765	0.2734
15	0.2834	0.2785	0.2758	0.2771	0.2826	0.2830	0.2804	0.2783	0.2807	0.2800	0.2749	0.2728
16	0.2831	0.2786	0.2763	0.2771	0.2833	0.2823	0.2802	0.2785	---	0.2796	0.2740	0.2724
17	0.2819	0.2774	0.2773	0.2780	0.2833	0.2816	0.2803	0.2790	0.2820	0.2788	0.2729	0.2720
18	0.2817	0.2776	0.2788	0.2780	0.2839	0.2813	0.2804	0.2789	0.2822	0.2782	0.2720	0.2719
19	0.2814	0.2780	0.2797	0.2786	0.2840	0.2804	0.2805	0.2785	0.2817	0.2771	0.2724	0.2714
20	0.2803	0.2786	0.2799	0.2783	0.2848	0.2801	0.2806	0.2781	0.2814	0.2755	0.2724	0.2705
21	0.2803	0.2793	0.2798	0.2782	0.2847	0.2796	0.2796	0.2775	0.2810	---	0.2723	0.2699
22	0.2795	0.2806	0.2791	0.2782	0.2842	0.2795	0.2787	0.2768	0.2804	0.2744	0.2716	0.2696
23	0.2793	0.2808	0.2792	0.2789	0.2832	0.2792	0.2781	0.2766	0.2789	0.2741	0.2715	0.2699
24	0.2801	0.2813	0.2787	0.2796	0.2822	0.2784	0.2773	0.2766	0.2774	---	0.2716	0.2705
25	0.2803	---	0.2782	0.2807	0.2812	0.2777	0.2767	0.2762	0.2758	---	0.2721	0.2712
26	0.2803	0.2812	0.2782	---	0.2810	0.2773	0.2768	0.2759	0.2743	0.2742	0.2721	0.2721
27	0.2807	0.2807	0.2781	0.2824	0.2791	0.2765	0.2764	0.2755	0.2742	0.2745	0.2718	0.2730
28	0.2801	0.2806	0.2778	0.2827	0.2784	0.2764	0.2772	0.2755	0.2742	0.2748	0.2721	0.2736
29	0.279	---	0.2777	0.2829	0.2772	0.2759	0.2776	0.2754	0.2745	0.2753		0.2754
30	0.2786	---	0.2779	---	0.2768	0.2759	0.2778	0.2757	0.2749	0.2748		0.2764
31	---	---		0.2826	0.2767		0.2782		---	0.2745		0.2770
Mean	0.2814	0.2808	0.2787	0.2782	0.2799	0.2800	0.2790	0.2783	0.2784	0.2768	0.2742	0.2743

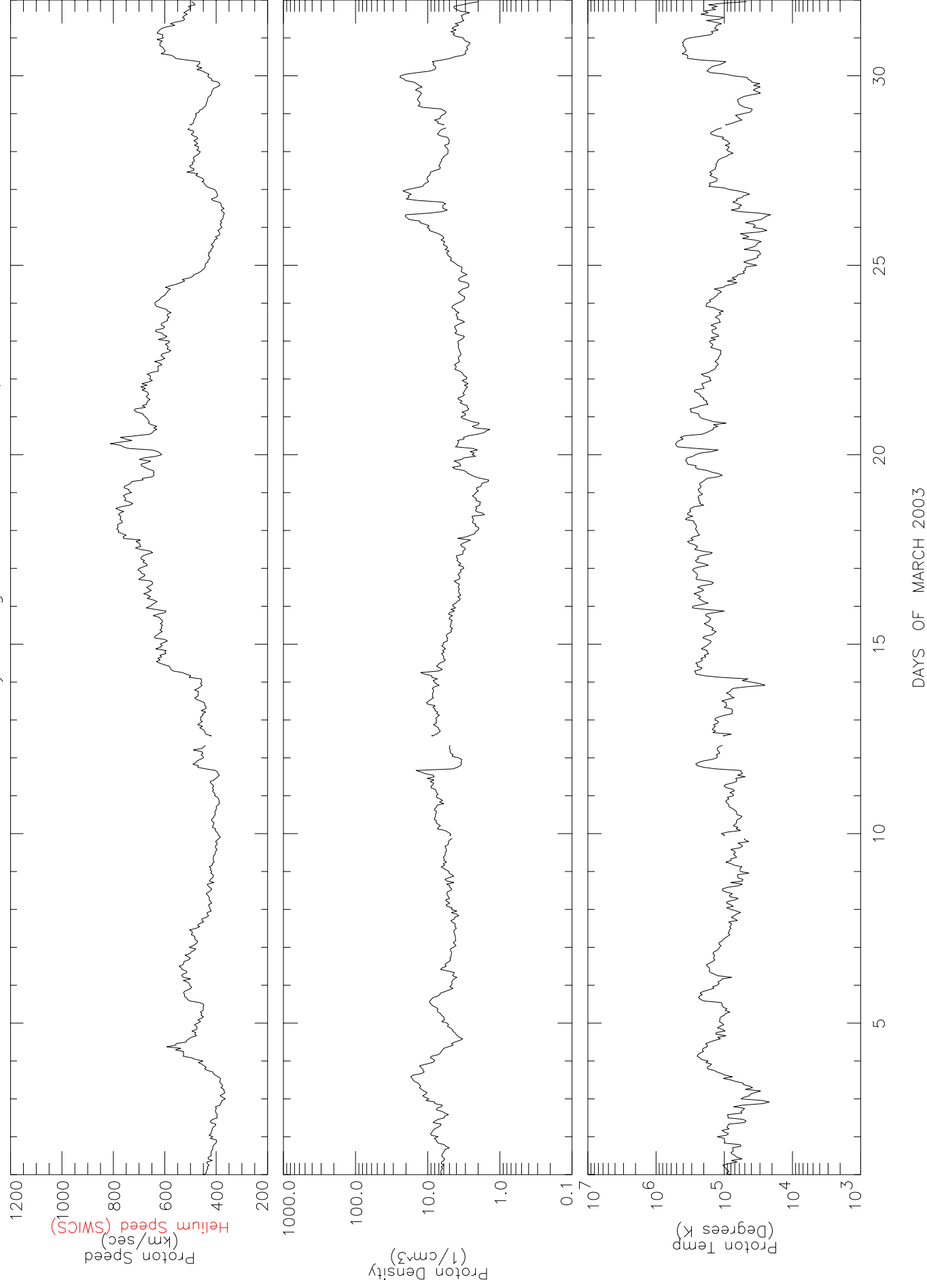
Data at: <http://www.sec.noaa.gov/ftpmenu/sbuw.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for MARCH 2003, from MAG



DAYS OF MARCH 2003

ACE LEVEL2 DATA Solar Wind Plasma Hourly Averages for MARCH 2003, from SWEPM



Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for MARCH 2003

