

SEPTEMBER 2002 NUMBER 697 - Part II



Solar-Geophysical Data comprehensive reports

Data for March 2002 and Miscellaneous

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

COMING ATTRACTIONS:

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

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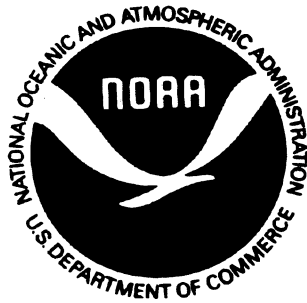
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NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
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Data for March 2002 and Late Data

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Michael S. Loughridge, Director

Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 697

(Issued in Two Parts)

Editor: Helen E. Coffey

Chief: Herbert W. Kroehl
Solar-Terrestrial Physics Division

Staff: Edward H. Erwin

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-- COMING ATTRACTIONS --

ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES

-- MONTHLY PLOTS

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	JAN 02	FEB	MAR	APR	MAY	JUN	JUL	AUG
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A.2c	American Sunspot Numbers	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27
A.3a	Mt. Wilson Magnetograms	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	
A.3b	Sunspot Mag Class and Regions	691A 90	692A 86	693A 91	694A 91	695A 86	696A100	697A 98	
A.3c	Kitt Peak Magnetograms	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	
A.3d	Mean Solar Magnetic Field (Stanford)	690A 43	691A 41	692A 39	693A 41	694A 41	695A 35	696A 43	697A 49
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A.4	H-alpha Filtergrams	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	
A.5d	Photometric Ca II Faculae (San Fernando)	Jan 92-Dec 96 in 631B 22; 1997-1998 in 663B 66							
A.6c	Stanford Solar Mag Field Synoptic Maps	691A 44	692A 44	693A 44	694A 46	695A 38	696A 48	697A 52	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps								
A.6f	Active Prominences and Filaments	695B 39	696B 41	697B 41					
A.6g	Sac Peak Coronal Line Synoptic Maps	691A 46	692A 46	693A 46	694A 48	695A 40	696A 50	697A 54	
A.6h	Photometric White Light (San Fernando)	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	
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A.7k	Coronal Index (Slovak Academy)	1939-1996 in 644B 28							
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A.8aa	2800 MHz- Solar Flux (Penticton)	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27
A.10g	Nancay Radioheliograph - 164&327 MHz	691A130	692A137	693A137	694A147	695A143	696A152	697A153	
A.10h	Nobeyama Radioheliograph Maps - 17 GHz	691A 84	692A 81	693A 85	694A 86	695A 80	696A 95	697A 92	
A.11g	Solar X-ray GOES (graphs/event table)	695B 30	696B 33	697B 32					
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A.11l	Solar UV NIMBUS7	Nov 78-Oct 84 in 542B 82							
A.11m	Solar UV SOLSTICE (UARS)	Oct 91-Sep 94 in 607B 46							
A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
A.11p	Solar UV Mg II Daily Index	694B 82	695B 40	696B 42	697A 42				
A.12g	Solar Particles (GOES-7)	690A 4	691A 4	692A 4	693A 4	694A 4	695A 4	696A 4	697A 4
A.12h	Interplanetary Particles (SAMPEX)	Jul 95-Dec 96 in 632B 22; Jan-Dec 97 in 647B 33							
A.13e	Solar Plasma (IMP-8)								
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A.16d	UARS Solar Irradiance	Oct 91-May 2001 684B 26 - Complete Mission							
A.16e	VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
A.17c	Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989-Jan 94 in 611A118							
A.17	IMP-8 Interplanetary Mag Field								
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C.1ba	H-alpha Flare Groups	695B 4	696B 4	697B 4					
C.1d	Flare Patrol Observations	695B 18	696B 16	697B 12					
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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The entry "691A 50" under Jan 02, for example, means that the sunspot drawings for Jan 02 appear in SOLAR-GEOPHYSICAL DATA No. 691, Part I, and that they begin on page 50. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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Mar 02

H α S O L A R F L A R E S

MARCH 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region	Mo Day							Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	VORO	01	0005	0010	0106	N17	E16	9845	03	2.2	61	1B	3	C	0010	188	2.2	
0002	VORO	01	0040	0042	0050	S21	W07	9848	02	28.5	10	SN	3	C	0042	72	0.8	
			01 0234		0248													No Flare Patrol
			01 0312		0323													No Flare Patrol
0003	LEAR	01	0528	0530	0538	S20	W09	9848	02	28.5	10	SF	2	E		89		FH
			01 0838		0841													No Flare Patrol
			01 1019		1022													No Flare Patrol
			01 1031		1435													No Flare Patrol
0004	HOLL	01	1437	1437	1451	S07	E65	9851	03	6.5	14	SF	3	E		27		F
0005	RAMY	01	1600	1600	1608	N16	E04	9845	03	2.0	8	SF	3	E		14		
0006	HOLL	01	1621	1630	1649	S08	E62	9851	03	6.3	28	SF	3	E		57		F
0007	RAMY	01	1637	1642	1650	S08	E61	9851	03	6.3	13	1F	3	E		110		F
			01 2142		2210													No Flare Patrol
			01 2218		2222													No Flare Patrol
			01 2240		2400													No Flare Patrol
			02 0000		0008													No Flare Patrol
			02 0211		0433													No Flare Patrol
			02 0540		0604													No Flare Patrol
0008	SVTO	02	0759	0759	0803	N13	W21	9845	02	28.7	4	SF	3	E		19		F
0009		02	0923	0923	0927	N23	W54	9844	02	26.3	4	SF				17		F
	LEAR	02	0923	0923	0927	N22	W54	9844	02	26.3	4	SF	3	E		16		F
	SVTO	02	0923	0924	0927	N24	W53	9844	02	26.4	4	SF	3	E		18		F
0010		02	11383	11411	1150	S13	W26	9847	02	28.5	12	SF				37		F
	SVTO	02	1138	1142	1152	S13	W25	9847	02	28.6	14	SF	3	E		47		F
	RAMY	02	1141	1141	1149	S13	W26	9847	02	28.5	8	SF	3	E		27		F
0011	SVTO	02	1156	1157	1201	S13	W26	9847	02	28.5	5	SF	3	E		18		F
			02 1726		1732													No Flare Patrol
0012	HOLL	02	2013	2016	2028	N14	W23	9845	03	1.1	15	SF	3	E		17		F
			03 0059		0235													No Flare Patrol
			03 0246		1248													No Flare Patrol
			03 1313		1349													No Flare Patrol
0013	LEAR	04	0608	0609	0613	N13	W45	9845	02	28.9	5	SF	2	E		15		F
0014	MITK	04	0733	0733	0736	N11	W52	9845	02	28.4	3	SB		C	0733	47	0.8	H
			04 1023		1119													No Flare Patrol
0015	RAMY	04	1403	1406	1409	N19	W50	9845	02	28.8	6	SF	3	E		14		
			06 1016		1042													No Flare Patrol
			06 1051		1115													No Flare Patrol
			06 1124		1217													No Flare Patrol
			06 2254		2310													No Flare Patrol
			06 2334		2336													No Flare Patrol
			07 0440		0641													No Flare Patrol
			07 0926		1249													No Flare Patrol
0016	RAMY	07	1250	1250	1254	N06	W67	9862	03	2.5	4	SF	3	E		14		F
			07 1303		1335													No Flare Patrol
			07 2032		2340													No Flare Patrol

H α SOLAR FLARES

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Mar 02

MARCH 2002

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)
0017	LEAR	08	0141	0142	0144	S10	E04	9859	03	8.4	3	SF		3	E		19	F	
			08 1033		1104	No Flare Patrol													
0018	RAMY	08	1217	1217	1227	S10	E00	9859	03	8.5	10	SF		3	E		63	F	
			08 1300		1339	No Flare Patrol													
			08 1428		1450	No Flare Patrol													
			08 1653		1750	No Flare Patrol													
			08 1801		1814	No Flare Patrol													
			08 1824		2320	No Flare Patrol													
0019	LEAR	09	0503	0511	0537	N23	E52	9864	03	13.2	34	SF		4	E		39	F	
0020	LEAR	09	0908	0909	0914	S06	E82	9866	03	15.5	6	SF		3	E		33		
			09 1021		1035	No Flare Patrol													
			09 1122		1126	No Flare Patrol													
0021	RAMY	09	1401	1410	1436	N19	E45	9864	03	13.0	35	1F		3	E		107	FH	
0022	HOLL	09	1413	1417	1439	N20	E48	9864	03	13.3	26	1F		3	E		130	FH	
0023		09	14321	1434	1437	S10	E78	9866	03	15.5	5	SF					20	F	
	HOLL	09	1432	1434	1438	S09	E80	9866	03	15.6	6	SF		3	E		26	F	
	RAMY	09	1433	1434	1436	S10	E77	9866	03	15.4	3	SF		3	E		14		
0024		09	1616	16172	1627	N18	E45	9864	03	13.1	11	SF					18		
	HOLL	09	1616	1617	1627	N19	E46	9864	03	13.2	11	SF		3	E		18		
	RAMY	09	1616	1619	1627	N18	E44	9864	03	13.0	11	SF		3	E		19		
0025	HOLL	09	1837	1839	1905	S09	E79	9866	03	15.7	28	1F		3	E		201	F	
0026	HOLL	09	1909	1911	1920	S09	E72	9866	03	15.2	11	SF		3	E		16	F	
0027	HOLL	09	2143	2206	2340	S09	E66	9866	03	14.8	117	1F		3	E		144	F	
0028	LEAR	10	0323	0329	0342	N23	E35	9864	03	12.8	19	SF		4	E		27	F	
0029	LEAR	10	0504	0504	0511	S06	E76	9866	03	15.9	7	SF		3	E		11		
			10 1009		1347	No Flare Patrol													
			10 2145		2158	No Flare Patrol													
0030	HOLL	10	2159	2200	2205	S08	E58	9866	03	15.3	6	SF		3	E		14	F	
			10 2207		2254	No Flare Patrol													
			11 1022		1106	No Flare Patrol													
0031		12	0834	0837	0855	S12	E41	9866	03	15.4	21	1F					92	F	
	LEAR	12	0834	0837	0855	S13	E41	9866	03	15.4	21	1F		3	E		121	F	
	SVTO	12	0835E	0837U	0854D	S11	E41	9866	03	15.4	19D	SF		3	E		64	F	
0032	RAMY	12	1315	1316	1320	S11	E46	9866	03	16.0	5	SF		3	E		13		
0033		12	1907	19081	1916	S12	E38	9866	03	15.6	9	SF					26	FH	
	RAMY	12	1907	1908	1916	S12	E37	9866	03	15.6	9	SF		3	E		28	F	
	HOLL	12	1907	1909	1915	S12	E38	9866	03	15.6	8	SF		3	E		25	FH	
0034	HOLL	12	2305	2305	2311	S22	E93	9871	03	20.1	6	SF		3	E		37		
0035		13	0550	05502	0602	S12	E32	9866	03	15.6	12	SF					18	F	
	LEAR	13	0550	0550	0602	S12	E31	9866	03	15.6	12	SF		3	E		18	F	
	SVTO	13	0552E	0552	0601	S11	E32	9866	03	15.6	9D	SF		3	E		18	F	
0036	HOLL	13	2207	2209	2217	S10	W67	9859	03	8.9	10	SF		3	E		42	F	
0037	HOLL	13	2302	2318	2403	S22	E75	9871	03	19.7	61	SF		3	E		55	F	

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Mar 02

H α S O L A R F L A R E S

MARCH 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
0038	LEAR	13	2331E	2331U	2348	S22	E73	9871	03	19.6	17D	SF	3	E	10		F	
0039	14	01374	01431	0228	S10	E24	9866	03	15.9	51	2B				434	4.4	EFH	
	LEAR	14	0137	0144	0242	S12	E23	9866	03	15.8	65	2B	3	E	476		FE	
	MITK	14	0141	0143	0215	S09	E24	9866	03	15.9	34	1B		C	0143	391	4.4	HF
0040	LEAR	14	0732	0733	0738	N20	W03	9868	03	14.1	6	SF	3	E	17		F	
0041	LEAR	14	0748	0753	0758	N20	W03	9868	03	14.1	10	SF	3	E	12		F	
	14	0913		0917	No Flare Patrol													
	14	0951		1019	No Flare Patrol													
0042	RAMY	14	1646	1648	1710	S23	E57	9871	03	19.1	24	1F	3	E	159		FH	
0043	HOLL	14	1650E	1656U	1714D	S22	E56	9871	03	19.0	24D	SF	2	E	83			
0044	RAMY	14	2135	2135	2139	N19	W16	9864	03	13.7	4	SF	3	E	34		F	
	15	0132		0153	No Flare Patrol													
	15	0202		0220	No Flare Patrol													
	15	0230		0255	No Flare Patrol													
	15	0525		0538	No Flare Patrol													
	15	0542		0555	No Flare Patrol													
0045	LEAR	15	0704	0705U	0722D	S22	E54	9871	03	19.4	18D	SF	3	E	19			
0046	LEAR	15	0723E	0724U	0740D	S10	W03	9866	03	15.1	17D	SF	3	E	24		H	
0047	LEAR	15	0857	0901	0912	S06	W05	9866	03	15.0	15	SF	3	E	28		F	
	15	0918		0951	No Flare Patrol													
	15	1010		1053	No Flare Patrol													
0048	HOLL	15	2220	2238	2441	S08	W03	9866	03	15.7	141	1F	3	E	203		FZ	
0049	LEAR	16	0054E	0054U	0138	S10	W12	9866	03	15.1	44D	SF	2	E	81		F	
0050	16	01193	01242	0148	N20	W30	9864	03	13.8	29	1N				190	4.6	FH	
	VORO	16	0119	0124	0155	N21	W29	9864	03	13.8	36	1N	3	C	0124	340	4.6	FH
	LEAR	16	0122	0126	0142	N19	W32	9864	03	13.6	20	SF	2	E	41		FH	
16	0433		0454	No Flare Patrol														
16	0959		1057	No Flare Patrol														
0051	RAMY	16	1127	1127	1132	S20	E33	9871	03	19.0	5	SF	3	E	57		H	
0052	16	14481	14522	1508	N18	W38	9864	03	13.7	20	SF				62		FH	
	RAMY	16	1448	1452	1507	N19	W40	9864	03	13.6	19	SF	3	E	64		FH	
	HOLL	16	1449	1454	1508	N18	W37	9864	03	13.8	19	SF	3	E	61		F	
16	2020		2035	No Flare Patrol														
16	2122		2127	No Flare Patrol														
16	2150		2323	No Flare Patrol														
17	0008		0152	No Flare Patrol														
0053	LEAR	17	0221	0223	0225	S17	E02	9873	03	17.2	4	SF	2	E	19			
0054	LEAR	17	0455	0456	0504	S20	E24	9871	03	19.0	9	SF	2	E	35		F	
0055	LEAR	17	0458	0459	0509	S17	E01	9873	03	17.3	11	SF	2	E	22		F	
	17	0926		1101	No Flare Patrol													
	17	1110		1136	No Flare Patrol													
0056	17	14383	14394	1446	S09	W27	9866	03	15.6	8	SF				30		F	
	RAMY	17	1438	1439	1443	S09	W27	9866	03	15.6	5	SF	3	E	21		F	
	SVTO	17	1441	1443	1449	S09	W27	9866	03	15.6	8	SF	3	E	40		F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0057	RAMY	17	1536	1537	1557	S09	W27	9866	03	15.6	21	SF		3	E		68		FH	
0058		17	1704	1705	1712	S22	E20	9871	03	19.2	8	SF					64		F	
	RAMY	17	1704	1705	1712	S22	E20	9871	03	19.2	8	SF		3	E		88		F	
	HOLL	17	1705E	1706U	1712	S21	E21	9871	03	19.3	7D	SF		3	E		40			
0059	RAMY	17	1713	1713	1717	N17	E53	9874	03	21.7	4	SF		3	E		11			
0060	RAMY	17	1938E	1938U	1948	S22	E16	9871	03	19.0	10D	SF		3	E		68			
		17	2054		2135	No Flare Patrol														
		17	2142		2307	No Flare Patrol														
0061	VORO	18	0012E	0013	0018	S19	E13	9871	03	19.0	6D	SF		3	C	0013	99	1.1		
0062	MITK	18	0222	0224	0233	S16	E27	9871	03	20.1	11	SN			C	0224	54	0.6	E	
0063	LEAR	18	0323E	0323U	0328	S15	W22	9870	03	16.5	5D	SF		1	E		17		F	
0064	MITK	18	0427	0429	0431	S10	W39	9866	03	15.2	4	SN			C	0429	27	0.4	D	
0065	MITK	18	0432	0434	0436	S09	W37	9866	03	15.4	4	SN			C	0434	47	0.6	D	
		18	0739		1105	No Flare Patrol														
0066	SVTO	18	1144E	1146U	1204	S19	W28	9870	03	16.3	20D	1N		3	E		180		F	
0067	RAMY	18	1311	1313	1319	S23	W28	9870	03	16.4	8	SF		3	E		11		F	
0068		18	1624	1625	1633	S19	E04	9871	03	19.0	9	SF					54		FH	
	RAMY	18	1624	1625	1633	S19	E04	9871	03	19.0	9	SF		3	E		47		FH	
	HOLL	18	1626E	1626U	1633	S19	E05	9871	03	19.1	7D	SF		3	E		62		FH	
0069		18	16481	16501	1704	S20	W32	9870	03	16.2	16	SF					78		FH	
	HOLL	18	1648	1651	1704	S19	W32	9870	03	16.2	16	SF		3	E		77		F	
	RAMY	18	1649	1650	1704	S20	W32	9870	03	16.2	15	SF		3	E		79		FH	
0070	HOLL	18	1723	1725	1729	S18	W29	9870	03	16.5	6	SF		3	E		15			
0071		18	1910	19152	1929	S22	E02	9871	03	18.9	19	1F					106		FH	
	RAMY	18	1910	1915	1930	S22	E02	9871	03	18.9	20	1F		3	E		108		FH	
	HOLL	18	1910	1917	1928	S21	E02	9871	03	18.9	18	1F		3	E		105		FH	
0072	RAMY	18	1951	1951	1954	S21	E03	9871	03	19.0	3	SF		3	E		13			
		18	2108		2118	No Flare Patrol														
		18	2130		2157	No Flare Patrol														
0073	HOLL	18	2156	2156	2202	S19	E01	9871	03	19.0	6	SF		3	E		42		F	
		18	2223		2246	No Flare Patrol														
0074	LEAR	19	0122	0124	0135	S11	W41	9866	03	16.0	13	SF		3	E		20		F	
0075	LEAR	19	0520	0522	0532	S16	E09	9871	03	19.9	12	SF		3	E		16			
0076	SVTO	19	1109E	1119U	1321	S13	W47	9866	03	15.9	132D	1N		2	E		187		F	
		19	1141		1205	No Flare Patrol														
0077	RAMY	19	1144	1144	1313	S10	W58	9866	03	15.1	89	1F		3	E		247		F	
		19	1219		1241	No Flare Patrol														
		19	1347		1353	No Flare Patrol														
		19	1955		1957	No Flare Patrol														
		19	2143		2150	No Flare Patrol														
		19	2216		2256	No Flare Patrol														
0078	LEAR	20	0353	0356	0408	S18	E61	9875	03	24.8	15	SF		3	E		18			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks																				
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)																					
0079	LEAR	20	0411	0412	0422	S18	E61	9875	03	24.8	11	SF		3	E		17																						
0080	LEAR	20	0627	0633	0657	S17	E59	9875	03	24.7	30	SF		3	E		51		FH																				
0081	SVTO	20	0823	0824	0827	S19	W41	9873	03	17.2	4	SF		3	E		10																						
0082	LEAR	20	0833	0834	0836	S18	E58	9875	03	24.8	3	SF		3	E		21		F																				
0083		20	16061	16061	1612	S17	W20	9871	03	19.1	6	SF					13		FH																				
	HOLL	20	1606	1606	1612	S17	W20	9871	03	19.1	6	SF		3	E		16		FH																				
	RAMY	20	1607	1607	1611	S17	W21	9871	03	19.1	4	SF		3	E		10																						
0084	RAMY	20	1805	1810	1820	S08	W68	9866	03	15.6	15	SF		3	E		33																						
0085	HOLL	20	2359	2419	2455	S19	W60	9870	03	16.4	56	SF		3	E		43		F																				
0086	LEAR	21	0008	0016	0040	S15	W60	9870	03	16.5	32	SF		1	E		36		F																				
0087	LEAR	21	0136	0141	0150	S19	W52	9873	03	17.1	14	SF		2	E		26		F																				
0088	LEAR	21	0431	0434	0437	N09	E81	9878	03	27.3	6	SF		2	E		35																						
0089	LEAR	21	0437	0440	0444	S20	W56	9873	03	16.9	7	SF		2	E		37		F																				
0090		21	0629	06291	0632	N10	E81	9878	03	27.3	3	SF					18																						
	SVTO	21	0629	0629	0633	N09	E80	9878	03	27.3	4	SF		3	E		20																						
	LEAR	21	0629	0630	0632	N10	E82	9878	03	27.4	3	SF		3	E		15																						
0091		21	0748*	0811	0829	S10	W75	9866	03	15.7	41	SF					53		F																				
	SVTO	21	0748	0811	0831	S09	W74	9866	03	15.8	43	SF		3	E		53		F																				
	LEAR	21	0758	0811	0827	S10	W76	9866	03	15.6	29	SF		3	E		53		F																				
0092	SVTO	21	0750	0750	0754	S14	W74	9866	03	15.7	4	SF		3	E		12																						
0093	RAMY	21	1808	1811	1813	S24	W25	9871	03	19.8	5	SF		3	E		10		F																				
																				22 0110	0115	No Flare Patrol																	
																				22 0123	0134	No Flare Patrol																	
																				22 0146	0317	No Flare Patrol																	
																				22 0341	0348	No Flare Patrol																	
																				22 0539	0613	No Flare Patrol																	
																				22 0621	0747	No Flare Patrol																	
																				22 0902	1253	No Flare Patrol																	
																				22 1604	1611	No Flare Patrol																	
																				22 1620	1642	No Flare Patrol																	
																				0094	HOLL	22	1818	1820	1824	S14	E47	9876	03	26.3	6	SF		3	E		32		
																				0095	HOLL	22	2353	2357	2406	S18	W39	9871	03	20.0	13	SF		3	E		20		
																				0096	LEAR	23	0147	0148	0155	S14	E45	9876	03	26.5	8	SF		3	E		19		F
																				0097	LEAR	23	0322	0330	0342	N08	E55	9878	03	27.3	20	SF		3	E		35		FH
0098	LEAR	23	0407	0408	0417	S13	E43	9876	03	26.4	10	SF		3	E		12		FH																				
0099	LEAR	23	0418	0426	0434	S18	E30	9876	03	25.5	16	SF		3	E		20		FH																				
0100	LEAR	23	0436	0442	0455	S16	E45	9876	03	26.6	19	SF		2	E		47		F																				
																				23 0853	0945	No Flare Patrol																	
																				23 0953	1105	No Flare Patrol																	
0101		23	1430	1437	1450	S15	E36	9876	03	26.3	20	SF					51		FH																				
	RAMY	23	1430	1437	1449	S15	E35	9876	03	26.2	19	SF		3	E		66		FH																				
	SVTO	23	1437E	1439U	1450	S15	E37	9876	03	26.4	13D	SF		3	E		36		F																				
0102	HOLL	23	1549	1551	1555	S13	E36	9876	03	26.4	6	SF		3	E		14		F																				

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MARCH 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
						Region	Lat								Time (UT)	Apparent (10-6 Disk)	
0103	HOLL	23	1916	1916	1931	S15	E34	9876	03	26.4	15	SF	3	E	10		F
		23	2237		2305	No Flare Patrol											
		24	0926		0945	No Flare Patrol											
		24	0954		1104	No Flare Patrol											
		24	1140		1222	No Flare Patrol											
0104		24	1732	17543	1826	S14	E22	9876	03	26.4	54	SF			54		FH
	RAMY	24	1732	1754	1827	S15	E22	9876	03	26.4	55	SF	3	E	50		FH
	HOLL	24	1732	1757	1824	S13	E23	9876	03	26.5	52	SF	3	E	57		FH
0105	HOLL	24	2034	2035	2048D	S04	W34	9881	03	22.3	14D	SF	3	E	36		F
		24	2037		2046	No Flare Patrol											
		24	2106		2116	No Flare Patrol											
		24	2300		2308	No Flare Patrol											
		24	2324		2335	No Flare Patrol											
		24	2343		2351	No Flare Patrol											
		25	0217		0346	No Flare Patrol											
0106	SVTO	25	1034E	1038	1053	N09	E26	9878	03	27.4	19D	SF	3	E	91		FH
0107	RAMY	25	1555	1555	1610	N08	E21	9878	03	27.2	15	SF	3	E	11		F
0108	RAMY	25	1810	1811	1814	S01	W44	9881	03	22.5	4	SF	3	E	16		
		25	2020		2059	No Flare Patrol											
		25	2124		2400	No Flare Patrol											
		26	0000		0653	No Flare Patrol											
		26	0722		0819	No Flare Patrol											
		26	0830		0842	No Flare Patrol											
		26	0951		0957	No Flare Patrol											
0109	SVTO	26	1117	1118	1125	S03	W56	9881	03	22.3	8	SF	3	E	25		
		26	1206		1210	No Flare Patrol											
0110		26	15063	1516	1544	N08	E06	9878	03	27.1	38	SF			58		FH
	SVTO	26	1506	1513U	1546	N07	E05	9878	03	27.0	40	SF	3	E	64		F
	RAMY	26	1509	1516	1543	N08	E06	9878	03	27.1	34	SF	3	E	52		FH
0111	RAMY	26	2000	2002	2011	S02	W58	9881	03	22.5	11	SF	3	E	53		F
0112	RAMY	26	2027	2030	2034	S01	W61	9881	03	22.3	7	SF	3	E	59		FH
		26	2130		2133	No Flare Patrol											
		26	2207		2400	No Flare Patrol											
		27	0000		0526	No Flare Patrol											
		27	0606		0613	No Flare Patrol											
		27	0717		0848	No Flare Patrol											
		27	0900		0927	No Flare Patrol											
		27	0933		0948	No Flare Patrol											
		27	1005		1033	No Flare Patrol											
		27	1053		1104	No Flare Patrol											
		27	1707		2329	No Flare Patrol											
		27	2345		2400	No Flare Patrol											
		28	0000		0001	No Flare Patrol											
		28	0010		0047	No Flare Patrol											
0113	SVTO	28	0951	0953U	1004	N17	W01	9882	03	28.3	13	SF	3	E	19		F
0114	SVTO	28	1548	1549	1552	N10	E61	9885	04	2.2	4	SF	3	E	20		
		28	1642		1906	No Flare Patrol											
		28	1934		1949	No Flare Patrol											
		28	2005		2010	No Flare Patrol											
		28	2048		2400	No Flare Patrol											
		29	0000		0252	No Flare Patrol											

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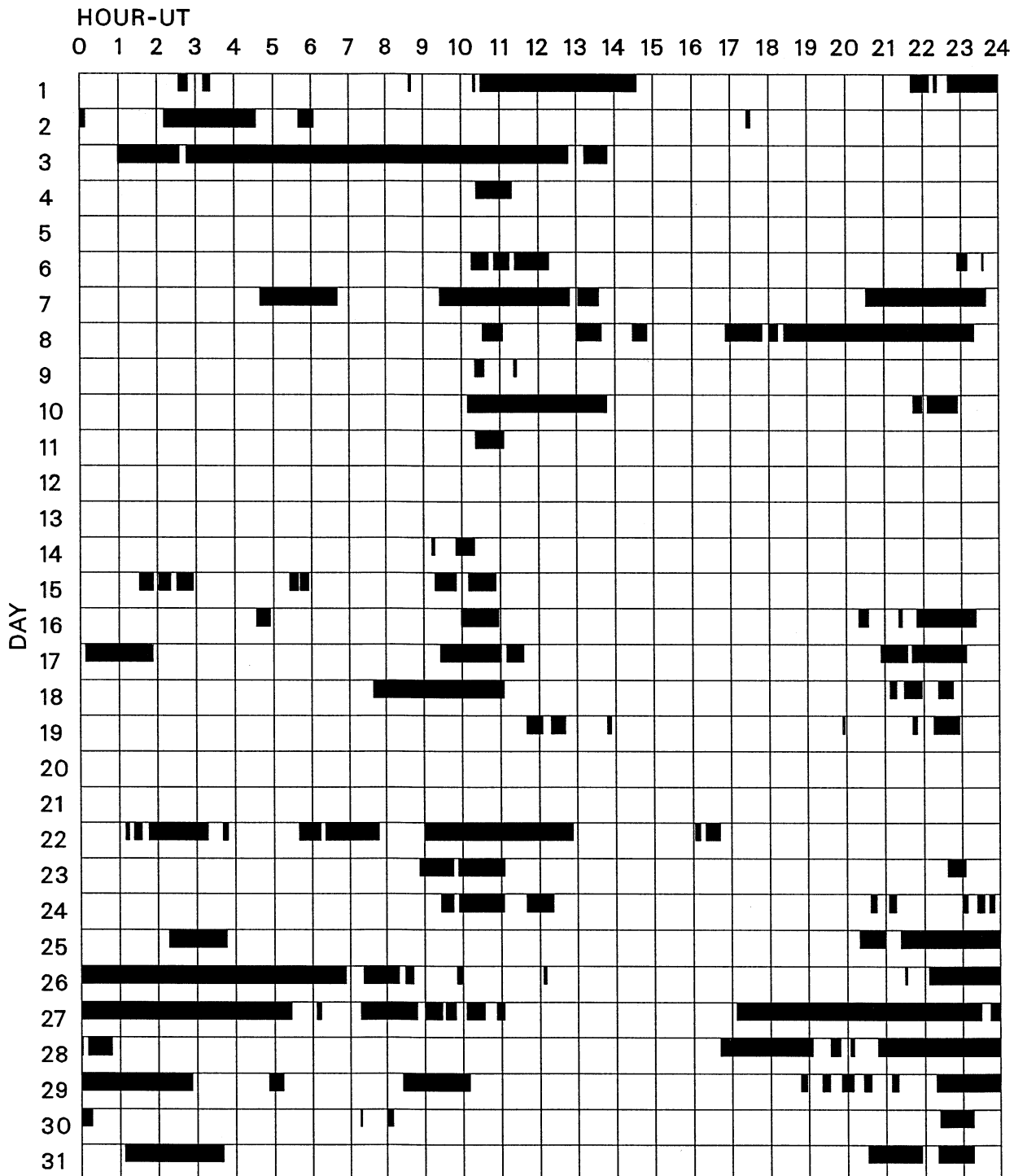
H α S O L A R F L A R E S

MARCH 2002

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)	
0115	LEAR	29	0353	0358	0413	N11	E55	9885	04	2.3	20	SF		3	E		37		F
		29	0451		0513	No Flare Patrol													
0116	SVTO	29	0735	0745U	0750	N09	W71	9880	03	24.0	15	SF		3	E		38		
		29	0826		1009	No Flare Patrol													
0117	SVTO	29	1011	1014	1017	N06	W65	9880	03	24.5	6	SF		3	E		11		
0118	SVTO	29	1041	1041	1045	N13	W67	9880	03	24.4	4	SF		3	E		11		
0119	SVTO	29	1132	1139	1142	N10	W70	9880	03	24.2	10	SF		3	E		44		F
0120		29	1149	1149	1159	N09	W74	9880	03	23.9	10	SF					30		
	SVTO	29	1149	1149	1158	N09	W74	9880	03	23.9	9	SF		3	E		31		
	RAMY	29	1151E	1151U	1200	N09	W73	9880	03	24.0	9D	SF		2	E		29		
0121		29	12042	1209	1228	N08	W73	9880	03	24.0	24	SF					24		F
	SVTO	29	1204	1209	1228	N09	W74	9880	03	23.9	24	SF		3	E		25		
	RAMY	29	1206	1209	1228	N08	W72	9880	03	24.1	22	SF		3	E		24		F
0122		29	12412	12511	1326	S19	E18	9884	03	30.9	45	SF					52		F
	SVTO	29	1241	1252	1334	S19	E19	9884	03	31.0	53	SF		3	E		59		F
	RAMY	29	1243	1251	1319	S19	E18	9884	03	30.9	36	SF		3	E		46		F
0123	SVTO	29	1321	1321	1330	N10	W74	9880	03	24.0	9	SF		3	E		18		
0124	SVTO	29	1416	1418	1421	N10	E49	9885	04	2.3	5	SF		3	E		22		
		29	1848		1857	No Flare Patrol													
0125	RAMY	29	1855	1909	1933	N00	E68	9887	04	3.9	38	SF		3	E		21		
		29	1921		1933	No Flare Patrol													
0126	RAMY	29	1941	2005	2016	N10	E44	9885	04	2.1	35	SF		3	E		13		F
		29	1951		2009	No Flare Patrol													
		29	2026		2037	No Flare Patrol													
		29	2109		2119	No Flare Patrol													
		29	2218		2400	No Flare Patrol													
		30	0000		0016	No Flare Patrol													
0127	VORO	30	0037	0039	0046	N11	W76	9880	03	24.3	9	SN		3	C	0039	72	2.9	
0128	VORO	30	0123E	0126	0138	N11	W76	9880	03	24.3	15D	SN		3	C	0126	45	1.9	
0129	LEAR	30	0649	0652	0659	N11	E37	9885	04	2.1	10	SF		3	E		21		FH
		30	0716		0718	No Flare Patrol													
		30	0800		0809	No Flare Patrol													
0130	SVTO	30	0851	0851	0854	N11	E39	9885	04	2.3	3	SF		3	E		23		
0131	SVTO	30	1141	1142	1148	N10	E31	9885	04	1.8	7	SF		3	E		11		
0132		30	1159	1200	1218	N10	E34	9885	04	2.0	19	SF					22		F
	RAMY	30	1159E	1159U	1219	N10	E34	9885	04	2.0	20D	SF		3	E		15		F
	SVTO	30	1159	1200	1216	N11	E35	9885	04	2.1	17	SF		3	E		30		
0133	SVTO	30	1217	1218	1222	N10	E33	9885	04	2.0	5	SF		3	E		10		
0134	RAMY	30	1235	1238	1240	N11	E33	9885	04	2.0	5	SF		3	E		25		
0135		30	12475	12584	1410	N10	E32	9885	04	1.9	83	1N					118		FH
	RAMY	30	1247	1302	1410	N11	E33	9885	04	2.0	83	1N		3	E		145		FH
	SVTO	30	1252	1258	1410	N10	E32	9885	04	1.9	78	SN		3	E		90		FH

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 2002

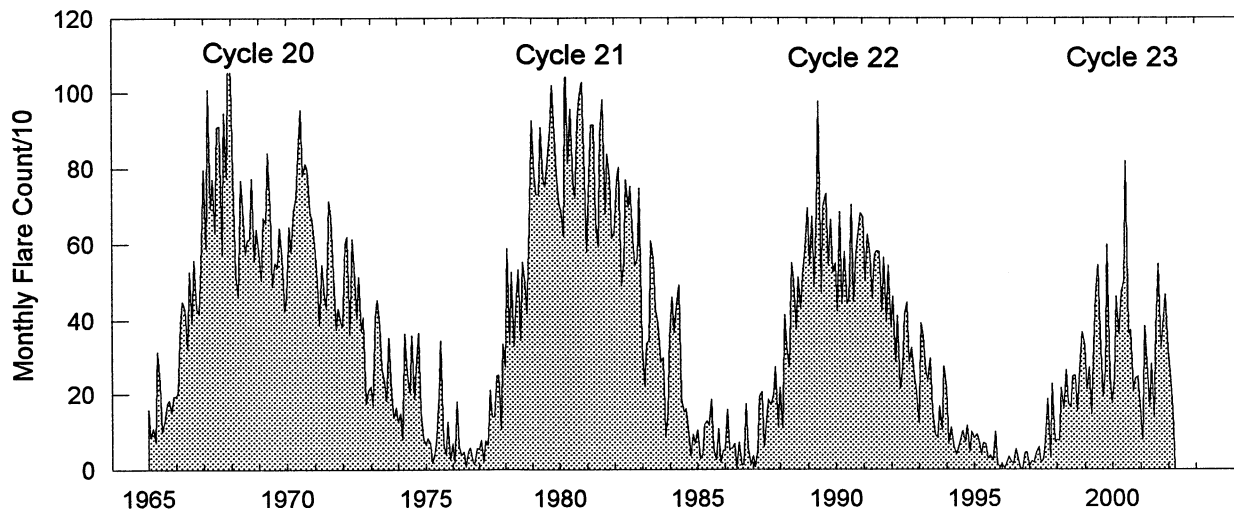


Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual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

Holloman	Learmonth	Ramey	San Vito
Mitaka	Voroshilov		

Monthly Counts of Grouped Solar Flares

Jan 1965 - Mar 2002



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										734

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

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MARCH 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
01	127	TORN	44 NS	0900.0E		360.0D		17.0		V=1	
	235	CUBA	44 NS	1315.0E		515.0D		5.0			
	280	CUBA	44 NS	1315.0E		515.0D		11.0			
	2804	VORO	4 S/F	0004.4	0010.9	8.1	61.4				
	2840	PEKG	3 S	0005.0	0011.1	16.0	59.1				
	2800	HIRA	4 S/F	0006.0	0011.0	7.0	70.0				0
	2695	LEAR	4 S/F	0007.0	0010.0	5.0	66.0				QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0008.0	0011.0	3.0	23.0				QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0008.0	0010.0	3.0	45.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	0010.0	0010.0	1.0	60.0				QL=4 ST=2 TYP=3
	2804	VORO	29 PBI	0012.5	0012.5	50.0	9.7				
	245	LEAR	8 S	0116.0	0116.0		U	72.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0117.0	0117.0	3.0	30.0				0
	200	HIRA	8 S	0122.0	0122.0	1.0	15.0				0
	2840	PEKG	3 S	0522.0	0529.6	13.0	31.7				
	200	HIRA	47 GB	0528.0	0529.0	2.0	2310.0				0
	245	LEAR	49 GB	0528.0	0529.0	1.0	1100.0				QL=4 ST=3 TYP=6
	4995	LEAR	8 S	0529.0	0529.0		U	73.0			QL=4 ST=3 TYP=3
	900	GORK	41 F	0754.5	0754.6	4.2	11.0				
	900	GORK	41 F	0754.5	0754.8			12.0			
	900	GORK	2 S/F	0816.5	0817.3	2.0	8.9				
	900	GORK	4 S/F	0845.7	0845.8	0.5	16.0				
	204	IZMI	42 SER	0916.7	0916.9	17.3	38.0				
	900	GORK	41 F	1126.9	1131.0			15.0			
	900	GORK	41 F	1126.9	1127.6	5.5	6.8				
	410	SVTO	8 S	1231.0	1231.0		U	69.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2130.0	2130.0		U	87.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2334.0	2334.0		U	63.0			QL=4 ST=2 TYP=3	
02	127	TORN	43 NS	0902.0		358.0		17.0		V=0	
	235	CUBA	44 NS	1405.0E		150.0D		5.0			
	280	CUBA	44 NS	1405.0E		150.0D		14.0			
	200	HIRA	8 S	0016.0	0016.0	1.0	50.0				0
	245	LEAR	8 S	0016.0	0016.0		U	93.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0016.0	0017.0	1.0	150.0				QL=4 ST=2 TYP=3
	2804	VORO	8 S	0400.0	0400.1	0.4	2.3				
	2804	VORO	1 S	0451.1	0451.7	1.3	2.3				
	900	GORK	2 S/F	0634.0	0634.4	0.5	6.8				
	900	GORK	8 S	0708.0	0708.1	0.2	10.0				
	3000	IZMI	20 GRF	0758.5	0800.2	2.7	8.0	5.0			
	2950	GORK	45 C	0922.5	0923.0	2.6	6.6				
	2950	GORK	45 C	0922.5	0924.1			7.7			
	3000	IZMI	7 C	0922.6	0924.0	2.2	11.0	4.0			
	8800	SGMR	8 S	1531.0	1531.0	1.0	58.0				QL=4 ST=2 TYP=3
	245	SGMR	48 C	2015.0	2018.0	3.0	120.0				QL=4 ST=2 TYP=8
	410	SGMR	8 S	2017.0	2018.0	1.0	91.0				QL=4 ST=2 TYP=3
03	127	TORN	44 NS	0700.0E		480.0D		12.0		V=1	
	235	CUBA	44 NS	1300.0E		120.0D		4.0			
	280	CUBA	44 NS	1300.0E		120.0D		14.0			
	200	HIRA	8 S	0102.0	0102.0	1.0	20.0				0
	2840	PEKG	5 S	0201.0	0204.2	8.0	24.2				
	2695	LEAR	8 S	0203.0	0203.0	1.0	20.0				QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0203.0	0203.0	1.0	17.0				QL=4 ST=2 TYP=3
	2804	VORO	42 SER	0203.1	0205.1	5.3	8.1				
	2804	VORO	42 SER	0203.1	0203.4	2.5	14.2				
	2804	VORO	42 SER	0203.1	0203.8	6.2	25.5				
	200	HIRA	8 S	0227.0	0227.0	1.0	15.0				0
	2840	PEKG	5 S	0227.0	0230.4	8.0	22.6				
	2804	VORO	2 S/F	0437.1	0438.1	1.1	5.1				
	200	HIRA	8 S	0513.0	0513.0	1.0	10.0				0
	200	HIRA	7 C	0535.0	0541.0	7.0	65.0				0
	200	HIRA	8 S	0656.0	0656.0	1.0	10.0				0
	204	IZMI	42 SER	0656.1	0656.2	0.3	34.0				
	204	IZMI	7 C	0751.9	0751.9	0.2	8.0				
	204	IZMI	42 SER	0823.6	0823.8	1.3	13.0				
	245	LEAR	8 S	0857.0	0857.0		U	61.0			QL=4 ST=2 TYP=3
04	127	TORN	43 NS	0930.0		290.0		11.0		V=0	

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MARCH 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
04	2804	VORO	8 S	0248.6	0249.1	0.8	2.3			
	2804	VORO	1 S	0337.3	0338.0	1.9	1.9			
	245	LEAR	8 S	0629.0	0629.0	U	170.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0730.0	0730.0	1.0	360.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0730.0	0730.0	1.0	33.0			QL=2 ST=2 TYP=3
	245	SVTO	48 C	0731.0	0731.0	3.0	350.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0731.2	0732.7	4.4	25.0			
	245	LEAR	8 S	0733.0	0733.0	U	39.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0733.0	0733.0	U	45.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0733.0	0733.0	U	31.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0734.0	0734.0	U	70.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0734.0	0734.0	U	29.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0837.4	0838.9	1.6	12.0			
	204	IZMI	7 C	0839.1	0839.2	0.3	59.0			
	410	SVTO	8 S	0852.0	0853.0	1.0	81.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1059.3	1059.4	0.3	31.0			
410	SGMR	8 S	1338.0	1338.0	U	65.0			QL=4 ST=2 TYP=3	
05	127	TORN	43 NS	0810.0		410.0		9.0		V=0
	235	CUBA	44 NS	1305.0E		115.0D		5.0		
	280	CUBA	44 NS	1305.0E		115.0D		13.0		
	245	PALE	48 C	0320.0	0320.0	2.0	160.0			QL=4 ST=2 TYP=8
	900	GORK	46 C	0951.5	0951.6	1.0	50.0			
	900	GORK	46 C	0951.5	0951.7		42.0			
	410	SGMR	8 S	1337.0	1337.0	U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1337.0	1337.0	U	93.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2314.0	2315.0	1.0	165.0			
	245	LEAR	8 S	2314.0	2314.0	1.0	430.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2314.0	2314.0	U	31.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2314.0	2314.0	1.0	410.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	2340.0	2340.0	1.0	20.0				
200	HIRA	8 S	2345.0	2345.0	1.0	20.0				
06	127	TORN	43 NS	0902.0		298.0		9.0		V=0
	235	CUBA	44 NS	1305.0E		85.0D		5.0		
	280	CUBA	44 NS	1305.0E		85.0D		13.0		
	245	LEAR	43 NS	2355.0	0013.0	40.0	190.0			QL=4 ST=2 TYP=1
	200	HIRA	8 S	0117.0	0117.0	1.0	10.0			0
	200	HIRA	8 S	0218.0	0218.0	1.0	10.0			0
	33	UPIC	45 C	0656.0	0656.5	1.0				
	33	UPIC	45 C	0725.0	0726.0	2.5				
	204	IZMI	42 SER	0820.2	0820.4	0.3	38.0			
	245	SGMR	8 S	1222.0	1222.0	U	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1452.0	1452.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1606.0	1607.0	1.0	340.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1914.0	1914.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1914.0	1914.0	U	78.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1917.0	1917.0	2.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1917.0	1918.0	2.0	270.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1917.0	1918.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1918.0	1918.0	1.0	280.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1918.0	1918.0	U	50.0			QL=4 ST=2 TYP=3
610	SGMR	8 S	1918.0	1918.0	U	41.0			QL=4 ST=2 TYP=3	
07	127	TORN	43 NS	0735.0		445.0		10.0		V=1, DISRURBED
	235	CUBA	44 NS	1340.0E		80.0D		6.0		
	280	CUBA	44 NS	1340.0E		80.0D		14.0		
	200	HIRA	8 S	0033.0	0034.0	1.0	15.0			0
	3000	IZMI	20 GRF	0826.2	0830.2	11.5	6.0			
	2800	PENT	40 F	1746.0	1749.0	13.0	7.0			
	245	PALE	8 S	1750.0	1750.0	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1750.0	1750.0	U	160.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2047.0	2047.0	U	150.0			QL=4 ST=2 TYP=3	
08	127	TORN	43 NS	0819.0		308.0		13.0		V=0
	235	CUBA	44 NS	1330.0E		90.0D		6.0		
	280	CUBA	44 NS	1330.0E		90.0D		14.0		
	2804	VORO	40 F	0011.4	0011.9	2.5	11.6			
	245	LEAR	8 S	0047.0	0047.0	U	72.0			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 (10 ⁻²² W/m ² Hz)	Mean		
08	2804	VORO	1 S	0047.8	0048.4	1.2	2.0			
		204 IZMI	7 C	0945.2	0945.2	0.1	10.0			
	9100	GORK	46 C	0954.6	0954.7	1.3	35.0			
		GORK	46 C	0954.6	0954.9		86.0			
	9500	CUBA	1 S	1506.9	1507.8	2.1	10.0	5.0		
09	127	TORN	43 NS	0930.0		330.0		12.0		V=0
	235	CUBA	44 NS	1300.0E		80.0D		7.0		
	280	CUBA	44 NS	1300.0E		80.0D		16.0		
	900	GORK	46 C	0609.0	0612.1		13.0			
	900	GORK	46 C	0609.0	0610.8	3.7	20.0			
	900	GORK	28 PRE	0620.8	0626.4	10.3	7.4			
	900	GORK	4 S/F	0631.1	0633.0	6.1	53.0			
	900	GORK	2 S/F	0639.5	0640.3	1.3	4.9			
	900	GORK	42 SER	1032.5	1032.6	22.2	15.0			
	900	GORK	42 SER	1032.5	1049.7		9.8			
	9100	GORK	1 S	1054.3	1054.4	2.2	6.4			
	9500	CUBA	1 S	1338.2	1341.1	5.7	15.0	7.0		
	6700	CUBA	1 S	1339.0	1341.0	4.8	8.0	4.0		12L
	2695	PALE	46 C	1400.0	1842.0	600.0	30.0			QL=4 ST=1 TYP=8
	9500	CUBA	1 S	1735.7	1736.3	2.9	11.0	5.0		
	2800	PENT	45 C	1825.0	1843.0	189.0	39.0U			
	9500	CUBA	1 S	1829.3	1830.0	1.5	19.0	9.0		
	6700	CUBA	1 S	1829.4	1830.0	1.4	12.0	6.0		7L
	8800	SGMR	4 S/F	1833.0	1836.0	45.0	280.0			QL=4 ST=3 TYP=3
	6700	CUBA	4 S/F	1833.3	1836.8	21.7	209.0	104.0		3R C.POL
	9500	CUBA	4 S/F	1833.5	1836.7	20.7	240.0	120.0		
	8800	PALE	48 C	1834.0	1836.0	25.0	280.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1834.0	1837.0	32.0	130.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1834.0	1837.0	44.0	130.0			QL=4 ST=3 TYP=3
	15400	SGMR	4 S/F	1834.0	1836.0	44.0	98.0			QL=4 ST=3 TYP=3
	2695	PALE	46 C	1834.0E	1842.0U	8.0D	30.0			QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1841.0	1842.0	37.0	40.0			QL=4 ST=3 TYP=3
	1415	PALE	48 C	1842.0	1842.0	1.0	54.0			QL=4 ST=2 TYP=8
	2695	SGMR	4 S/F	1842.0	1843.0	36.0	34.0			QL=4 ST=3 TYP=3
	15400	PALE	8 S	1853.0	1853.0	U	160.0			QL=4 ST=2 TYP=3
	9500	CUBA	29 PBI	1854.2	1854.2	167.8	58.0	29.0		
	6700	CUBA	29 PBI	1855.0	1855.0	11.0	57.0	23.0		00L
	1415	PALE	8 S	1927.0	1927.0	U	210.0			QL=4 ST=2 TYP=3
1415	SGMR	8 S	1927.0	1927.0	U	120.0			QL=4 ST=2 TYP=3	
2800	PENT	45 C	2228.0	2250.0	128.0	32.0U				
500	HIRA	7 C	2257.0	2300.0	4.0	30.0			0	
2804	VORO	2 S/F	2330.6	2331.2	1.3	4.0				
10	127	TORN	44 NS	0700.0E		480.0D		13.0		V=1
	235	CUBA	44 NS	1400.0E		60.0D		6.0		
	280	CUBA	44 NS	1400.0E		60.0D		19.0		
	245	SGMR	43 NS	1445.0	1507.0	94.0	87.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1839.0	1839.0	28.0	71.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0108.0	0108.0	U	53.0			QL=2 ST=2 TYP=3
	2840	PEKG	3 S	0130.0	0135.3	17.0	224.0			
	410	PALE	4 S/F	0132.0	0134.0	5.0	260.0			QL=4 ST=2 TYP=3
	500	HIRA	3 S	0134.0	0135.0	8.0	30.0			0
	245	LEAR	8 S	0134.0	0135.0	2.0	860.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0134.0	0134.0	1.0	110.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0134.0	0135.0	2.0	44.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0134.0	0135.0	1.0	300.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0134.0	0135.0	1.0	450.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0134.0	0135.0	7.0	120.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0134.0	0135.0	5.0	190.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0134.0	0135.0	5.0	280.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0134.0	0135.0	1.0	110.0			QL=4 ST=1 TYP=3
	4995	PALE	8 S	0134.0	0135.0	2.0	270.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0134.0	0135.0	1.0	330.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0134.0	0135.0	1.0	370.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0134.0	0135.0	1419.0	170.0			QL=4 ST=1 TYP=3
	2804	VORO	3 S	0134.4	0135.3	26.6	192.7			
200	HIRA	8 S	0135.0	0135.0	1.0	325.0			0	
245	PALE	8 S	0135.0	0135.0	1.0	950.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
10	610	PALE	8 S	0135.0	0135.0	U	34.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0135.0	0135.0	16.0	210.0			ML
	410	PALE	48 C	0347.0	0357.0	12.0	180.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0357.0	0357.0	1.0	240.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0357.0	0357.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0357.0	0358.0	1.0	230.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0357.7	0358.0	2.4	6.5			
	2840	PEKG	45 C	0500.0	0503.9	12.0	115.9			
	2800	HIRA	4 S/F	0503.0	0503.0	5.0	90.0			ML
	500	HIRA	4 S/F	0503.0	0503.0	5.0	330.0			0
	200	HIRA	7 C	0503.0	0504.0	3.0	410.0			0
	410	LEAR	49 GB	0503.0	0503.0	1.0	1900.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0503.0	0503.0	2.0	98.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0503.0	0504.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0503.0	0503.0	2.0	88.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0503.0	0504.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0503.0	0504.0	1.0	110.0			QL=4 ST=2 TYP=3
	2804	VORO	45 C	0503.2	0503.9	11.2	103.7			
	245	LEAR	49 GB	0504.0	0504.0	1.0	4400.0			QL=4 ST=2 TYP=6
	600	GORK	4 S/F	0616.5	0620.3	9.1	35.0			
	600	GORK	47 GB	0637.5	0649.1	61.5	750.0			
	900	GORK	40 F	0801.2	0801.8	0.9	7.8			
	600	GORK	46 C	0919.8	0920.2	1.1	3.6			
	600	GORK	46 C	0919.8	0920.4		12.0			
	2950	GORK	21 GRF	0930.0U	1005.0	120.0D	9.1			
	9100	GORK	21 GRF	0938.0	1019.5	112.0D	15.0			
	600	GORK	40 F	0939.2	0941.2	2.6	13.0			
	9100	GORK	2 S/F	0945.6	0946.2	1.0	8.2			
	600	GORK	42 SER	0953.4	1005.4		22.0			
	600	GORK	42 SER	0953.4	0953.5	12.5	12.0			
	9100	GORK	46 C	0957.6	0958.5	2.9	50.0			
	9100	GORK	46 C	0957.6	0959.9		18.0			
	3000	IZMI	22 GRF	0959.3	1001.2	4.5	28.0	9.0		
	8800	LEAR	8 S	1000.0	1001.0	1.0	55.0			QL=4 ST=2 TYP=3
	900	GORK	46 C	1000.6	1005.0		58.0			
	900	GORK	46 C	1000.6	1004.8	4.7	120.0			
	2950	GORK	46 C	1000.7	1001.2U	2.5	5.7U			
	2950	GORK	46 C	1000.7	1002.6U		10.0U			
	1415	LEAR	8 S	1001.0	1001.0	1.0	76.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	1001.0	1001.0	U	23.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	1001.0	1001.0	U	40.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1001.0	1001.0	U	75.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	1003.2U	1003.4	1.8D	33.0			
	127	TORN	7 C	1005.0U	1005.3	1.3U		30.0		
	204	IZMI	42 SER	1005.4	1005.9	0.6	15.0			
	245	SVTO	8 S	1058.0	1059.0	1.0	90.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1058.0	1059.0	1.0	140.0			QL=4 ST=2 TYP=3
	600	GORK	46 C	1058.6	1059.3		160.0U			
	600	GORK	46 C	1058.6	1058.9	4.6	150.0			
	204	IZMI	46 C	1058.9	1059.0	1.8	156.0			
900	GORK	2 S/F	1058.9	1059.5	4.5	4.5				
3000	IZMI	5 S	1059.0	1059.4	1.4	8.0	4.0			
33	UPIC	46 C	1059.0	1059.5	1.5					
9100	GORK	2 S/F	1059.2	1059.7	0.8	9.8				
900	GORK	4 S/F	1102.7	1103.0	0.6	60.0				
3000	IZMI	7 C	1102.7	1103.0	1.7	15.0	4.0			
2950	GORK	1 S	1102.8U	1103.1	1.0D	10.0				
245	SGMR	8 S	1200.0	1200.0	1.0	86.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1200.0	1200.0	U	210.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1200.0	1200.0	U	56.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1200.0	1200.0	1.0	64.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1200.0	1200.0	U	280.0			QL=4 ST=2 TYP=3	
204	IZMI	46 C	1200.3	1200.8	0.7	189.0				
245	SGMR	8 S	1400.0	1400.0	U	86.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1412.0	1413.0	1.0	270.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1412.0	1412.0	U	100.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1413.0	1413.0	U	290.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1506.0	1506.0	U	52.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1559.0	1559.0	U	56.0			QL=4 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N
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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		
10	245	SVTO	8 S	1618.0	1618.0	U	56.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1824.0	1825.0	1.0	50.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1824.0	1825.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1839.0	1839.0	U	63.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2057.0	2058.0	1.0	280.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2057.0	2057.0	U	250.0			QL=4 ST=2 TYP=3
11	127	TORN	43 NS	0900.0		420.0		30.0		V=2
	204	IZMI	43 NS	0948.0		132.00		20.0		
	235	CUBA	44 NS	1305.0E		55.00		12.0		
	280	CUBA	44 NS	1305.0E		55.00		21.0		
	245	LEAR	43 NS	2322.0	0118.0	191.0	220.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2354.0	2354.0	6.0	82.0			QL=4 ST=3 TYP=1
	200	HIRA	8 S	0139.0	0139.0	1.0	30.0			0
	900	GORK	42 SER	0919.8	0920.1	9.2	14.0			
	900	GORK	42 SER	0919.8	0928.6		10.0			
	33	UPIC	45 C	1308.0	1309.0	2.0				
	33	UPIC	45 C	1319.5	1320.0	1.5				
	245	SGMR	8 S	1819.0	1819.0	U	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1819.0	1819.0	U	37.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1905.0	1905.0	U	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1905.0	1905.0	U	200.0			QL=4 ST=2 TYP=3
	2804	VORO	27 RF	2320.0U	2439.0	240.00	33.0			
	245	PALE	8 S	2322.0	2322.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2327.0	2328.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2343.0	2343.0	1.0	1500.0			QL=4 ST=2 TYP=6
1415	PALE	48 C	2344.0	2344.0	2.0	57.0			QL=4 ST=2 TYP=8	
610	PALE	4 S/F	2344.0	2347.0	3.0	37.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2346.0	2346.0	1.0	20.0			0	
12	245	LEAR	43 NS	0311.0	0310.0	66.0	92.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0436.0	0437.0	44.0	110.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0700.0E		400.00		14.0		V=1
	235	CUBA	44 NS	1305.0E		355.00		6.0		
	280	CUBA	44 NS	1305.0E		355.00		15.0		
	245	PALE	48 C	0015.0	0020.0	110.0	2600.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0016.0	0135.0	109.0	1200.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0016.0	0136.0	110.0	1400.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0018.0	0047.0	109.0	430.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0018.0	0047.0	108.0	350.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0019.0	0036.0	37.0	260.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	0019.0	0025.0	1421.0	180.0			QL=4 ST=1 TYP=8
	4995	LEAR	8 S	0020.0	0021.0	1.0	25.0			QL=4 ST=2 TYP=3
	1415	PALE	48 C	0143.0	0143.0	1.0	180.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0256.0	0256.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0306.0	0309.0	5.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0723.3	0734.5	32.2	104.0			
	2840	PEKG	3 S	0830.0	0834.2	12.0	15.5			
	610	LEAR	8 S	0833.0	0833.0	1.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0833.0	0833.0	1.0	300.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0833.3	0834.0	1.7	12.0			
	9100	GORK	4 S/F	0833.4	0834.0	7.4	25.0			
	600	GORK	46 C	0833.4	0834.0	1.5	36.0			
	3000	IZMI	22 GRF	0833.4	0834.0	6.6	17.0	5.0		
	600	GORK	46 C	0833.4	0834.1		23.0			
	9100	GORK	46 C	0940.7	0941.0	1.2	36.0			
	9100	GORK	46 C	0940.7	0941.2		50.0			
	9100	GORK	2 S/F	0958.9	0959.3	2.0	10.0			
	204	IZMI	41 F	1011.1	1011.1	0.1	31.0			
6700	CUBA	2 S/F	1633.2	1634.8	3.8	24.0	12.0		6R	
9500	CUBA	2 S/F	1633.2	1634.8	3.1	22.0	11.0			
2800	PENT	1 S	1901.0	1907.0	24.0	35.0				
245	SGMR	49 GB	1906.0	1907.0	2.0	650.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	1907.0	1907.0	U	97.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1907.0	1907.0	U	31.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1907.0	1907.0	U	73.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1907.0	1907.0	U	120.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1907.0	1907.0	U	29.0			QL=4 ST=2 TYP=3	
6700	CUBA	8 S	1907.0	1907.2	1.0	11.0	5.0		42R	

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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		
12	9500	CUBA	8 S	1907.0	1907.3	1.0	111.0	55.0		
	610	LEAR	49 GB	2305.0	2305.0	1.0	580.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	2305.0	2306.0	1.0	750.0			QL=4 ST=2 TYP=6
	2800	PENT	4 S/F	2340.0	2346.0	19.0	7.0			
	2804	VORO	40 F	2345.0	2348.2	5.0	4.2			
	610	LEAR	48 C	2346.0	2348.0	2.0	180.0			QL=4 ST=2 TYP=8
	610	PALE	8 S	2346.0	2348.0	2.0	290.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2347.0	2347.0	1.0	66.0			QL=4 ST=2 TYP=3
13	280	CUBA	44 NS	1305.0E		60.0D		20.0		
	235	CUBA	44 NS	1305.0E		525.0D		8.0		
	2800	PENT	1 S	0038.0	0042.0	13.0	43.0			
	2840	PEKG	5 S	0039.0	0041.8	9.0	47.1			
	2800	HIRA	1 S	0041.0	0042.0	7.0	45.0			0
	200	HIRA	8 S	0041.0	0041.0	1.0	60.0			0
	610	LEAR	49 GB	0041.0	0041.0	1.0	1900.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0041.0	0041.0		U	61.0		QL=4 ST=2 TYP=3
	410	LEAR	8 S	0041.0	0041.0		U	150.0		QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0041.0	0041.0	1.0	62.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0041.0	0041.0	1.0	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0041.0	0041.0	1.0	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0041.0	0041.0		U	59.0		QL=4 ST=2 TYP=3
	1415	PALE	48 C	0041.0	0041.0	2.0	65.0			QL=4 ST=3 TYP=8
	8800	PALE	46 C	0041.0	0041.0		U	49.0		QL=4 ST=3 TYP=8
	610	PALE	49 GB	0041.0	0041.0	1.0	2200.0			QL=4 ST=3 TYP=6
	410	PALE	8 S	0041.0	0041.0		U	130.0		QL=4 ST=3 TYP=3
	2804	VORO	3 S	0041.1	0041.8	7.2	225.7			
	15400	PALE	46 C	0042.0	0042.0		U	49.0		QL=4 ST=3 TYP=8
	610	LEAR	8 S	0407.0	0407.0	2.0	70.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0407.0	0408.0	2.0	70.0			QL=4 ST=3 TYP=3
	900	GORK	2 S/F	0731.1	0731.3	0.5	9.0			
	900	GORK	42 SER	0842.2	0843.0	12.9	5.6			
	900	GORK	42 SER	0842.2	0848.6		4.5			
	410	LEAR	8 S	0848.0	0848.0		U	380.0		QL=4 ST=2 TYP=3
	410	SVTO	8 S	0848.0	0848.0		U	210.0		QL=4 ST=2 TYP=3
	9100	GORK	40 F	0934.0	0934.1	0.8	93.0			
	9100	GORK	40 F	0934.0	0934.4		165.0			
	9100	GORK	40 F	0934.0	0934.6		35.0			
	600	GORK	41 F	0946.7	0948.4		50.0			
	600	GORK	41 F	0946.7	0946.9	2.6	28.0			
	9100	GORK	4 S/F	1024.3U	1024.6	5.7D	35.0			
	900	GORK	2 S/F	1025.6	1026.0	0.9	7.4			
	600	GORK	1 S	1026.8	1027.0	0.4	6.1			
	204	IZMI	46 C	1113.9	1115.3	1.9	2660.0			
	245	SGMR	8 S	1114.0	1115.0	1.0	340.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1114.0	1114.0	1.0	71.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1114.0	1115.0	1.0	380.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1114.0	1115.0	1.0	230.0			QL=4 ST=2 TYP=3
	3000	IZMI	5 S	1114.8	1115.2	1.3	40.0	19.0		
	610	SVTO	8 S	1115.0	1115.0		U	38.0		QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1115.0	1115.0		U	52.0		QL=4 ST=2 TYP=3
2695	SVTO	8 S	1115.0	1115.0		U	32.0		QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1115.0	1115.0		U	43.0		QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1115.0	1115.0		U	34.0		QL=4 ST=2 TYP=3	
33	UPIC	4 S/F	1115.0	1115.0	1.0					
245	SGMR	8 S	1358.0	1358.0		U	59.0		QL=4 ST=2 TYP=3	
410	SVTO	8 S	1401.0	1401.0		U	55.0		QL=4 ST=3 TYP=3	
245	SGMR	8 S	1431.0	1431.0		U	50.0		QL=4 ST=2 TYP=3	
410	SGMR	8 S	1432.0	1432.0		U	150.0		QL=4 ST=2 TYP=3	
33	UPIC	45 C	1452.5	1453.0	1.5				UNCERTN	
245	SGMR	8 S	1553.0	1553.0		U	250.0		QL=4 ST=2 TYP=3	
410	SGMR	8 S	1553.0	1553.0		U	140.0		QL=4 ST=2 TYP=3	
245	SVTO	8 S	1553.0	1553.0		U	150.0		QL=4 ST=2 TYP=3	
410	SVTO	8 S	1553.0	1553.0		U	57.0		QL=4 ST=2 TYP=3	
245	SGMR	8 S	1604.0	1604.0	1.0	310.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1604.0	1604.0	1.0	180.0			QL=4 ST=2 TYP=3	
2804	VORO	46 C	2313.8	2319.9	50.0	44.2				
200	HIRA	7 C	2324.0	2328.0	12.0	25.0			0	

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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		
14	204	IZMI	43 NS	0700.0		300.0D		15.0		
	235	CUBA	44 NS	1300.0E		60.0D		11.0		
	280	CUBA	44 NS	1300.0E		60.0D		19.0		
	2800	PENT	45 C	0019.0	0020.0	3.0U				
	2840	PEKG	47 GB	0135.0	0144.1	40.0	885.2			
	2804	VORO	47 GB	0139.6	0143.0U	29.5D	662.1			
	8800	LEAR	49 GB	0140.0	0143.0	59.0	1500.0			QL=4 ST=2 TYP=6
	2695	LEAR	48 C	0141.0	0144.0	29.0	1100.0			QL=4 ST=2 TYP=8
	1415	LEAR	49 GB	0141.0	0145.0	26.0	500.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0141.0	0143.0	37.0	970.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0141.0	0143.0	37.0	950.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0152.0	0153.0	2.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0204.0	0205.0	1.0	100.0			QL=4 ST=2 TYP=3
	2804	VORO	29 PBI	0209.1	0257.5	170.0	24.9			
	245	LEAR	8 S	0221.0	0221.0	1.0	29.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1010.1	1010.4	0.8	118.0			
	245	SGMR	49 GB	1639.0	1639.0	1.0	580.0			QL=4 ST=2 TYP=6
	9500	CUBA	1 S	1646.0	1647.0	3.7	15.0	7.0		
	1415	SGMR	8 S	1647.0	1648.0	2.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1647.0	1648.0	2.0	60.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1647.0	1648.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1647.0	1648.0	2.0	37.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1754.0	1754.0	U	82.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1936.0	1936.0	U	52.0			QL=4 ST=2 TYP=3	
15	2804	VORO	8 S	0246.6	0246.7	0.6	2.0			
	600	GORK	42 SER	0703.0	0728.5		9.2			
	600	GORK	42 SER	0703.0	0703.6	25.8	29.0			
	900	GORK	46 C	0703.3	0703.5	0.9	11.0			
	900	GORK	46 C	0703.3	0703.8		16.0			
	900	GORK	41 F	0706.2	0706.3	0.4	5.1			
	900	GORK	41 F	0706.2	0706.5		15.0			
	900	GORK	46 C	0728.3	0728.5	0.7	15.0			
	900	GORK	46 C	0728.3	0728.7		14.0			
	900	GORK	42 SER	0900.7	0920.5		9.8			
	900	GORK	42 SER	0900.7	0900.8	64.9	60.0			
	900	GORK	42 SER	0900.7	1003.9		13.0			
	900	GORK	2 S/F	1020.0	1020.2	1.2	8.9			
	900	GORK	2 S/F	1039.8	1040.0	0.6	10.0			
	3000	IZMI	45 C	1128.2	1128.7	4.7	71.0	24.0		
	2800	PENT	45 C	2138.0	2232.0	204.0U	172.0			
	245	PALE	48 C	2211.0	2211.0	109.0	380.0			QL=4 ST=1 TYP=8
	2800	HIRA	7 C	2219.0	2234.0	29.0	175.0			0
	410	PALE	48 C	2220.0	2236.0	46.0	220.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	2220.0	2236.0	43.0	190.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	2220.0	2234.0	40.0	240.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	2220.0	2234.0	43.0	190.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	2222.0	2234.0	42.0	160.0			QL=4 ST=2 TYP=8
15400	PALE	48 C	2223.0	2223.0	U	62.0			QL=4 ST=2 TYP=8	
8800	PALE	48 C	2223.0	2234.0	41.0	120.0			QL=4 ST=2 TYP=8	
2695	LEAR	4 S/F	2241.0E	2258.0	19.0D	58.0			QL=4 ST=3 TYP=3	
1415	LEAR	46 C	2241.0E	2249.0U	8.0D	33.0			QL=4 ST=3 TYP=8	
610	LEAR	48 C	2241.0E	2257.0U	16.0D	51.0			QL=4 ST=3 TYP=8	
4995	LEAR	48 C	2241.0E	2254.0U	13.0D	52.0			QL=4 ST=3 TYP=8	
245	LEAR	4 S/F	2241.0E	2258.0U	18.0D	60.0			QL=4 ST=3 TYP=3	
410	LEAR	48 C	2241.0E	2248.0U	25.0D	150.0			QL=4 ST=3 TYP=8	
245	PALE	49 GB	2306.0	2306.0	U	500.0			QL=4 ST=2 TYP=6	
16	204	IZMI	44 NS	0700.0E		300.0D				
	127	TORN	44 NS	0920.0E		340.0D		110.0		V=1
	245	SGMR	43 NS	1147.0	1148.0	53.0	420.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1405.0E		235.0D		3.0		
	245	SGMR	43 NS	1544.0	1544.0	53.0	77.0			QL=4 ST=3 TYP=1
	245	SGMR	43 NS	1544.0	1544.0	496.0	77.0			QL=4 ST=3 TYP=1
	2804	VORO	1 S	0118.9	0120.4	3.2	7.5			
	245	LEAR	8 S	0119.0	0119.0	U	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0400.0	0400.0	U	130.0			QL=4 ST=2 TYP=3
	2804	VORO	8 S	0454.1	0454.3	0.6	2.9			
245	LEAR	48 C	0512.0	0512.0	1.0	140.0			QL=4 ST=2 TYP=8	

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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		
16	204	IZMI	7 C	0728.8	0728.8	0.1	15.0			
	600	GORK	42 SER	0841.8	0909.1		7.3			
	600	GORK	42 SER	0841.8	0842.1	39.2	5.8			
	600	GORK	42 SER	0841.8	0920.9		8.8			
	900	GORK	2 S/F	0857.1	0858.0	1.1	20.0			
	204	IZMI	41 F	0908.7	0908.8	0.6	10.0			
	9100	GORK	41 F	1033.7	1034.0	1.3	27.0			
	9100	GORK	41 F	1033.7	1034.8		47.0U			
	9100	GORK	20 GRF	1039.2	1040.9	14.0	7.9			
	1415	SGMR	49 GB	1121.0	1123.0	3.0	1500.0			QL=4 ST=2 TYP=6
	2695	SGMR	4 S/F	1121.0	1122.0	3.0	96.0			QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	1121.0	1123.0	4.0	1600.0			QL=4 ST=2 TYP=6
	2695	SVTO	4 S/F	1121.0	1122.0	3.0	110.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	1121.8	1122.5	3.0	77.0	24.9		
	245	SGMR	49 GB	1122.0	1122.0	U	1300.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1122.0	1122.0	1.0	170.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1122.0	1122.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1122.0	1122.0	U	1900.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1122.0	1122.0	1.0	490.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1122.0	1122.0	2.0	150.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1122.0	1122.0	1.0	29.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1122.0	1122.5	2.0				
	204	IZMI	46 C	1122.2	1122.4	3.0	256.0			
	245	SVTO	8 S	1356.0	1357.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1357.0	1357.0	U	72.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1845.0	1847.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1847.0	1847.0	U	88.0			QL=4 ST=3 TYP=3
	410	SGMR	48 C	1856.0	1901.0	8.0	62.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1857.0	1901.0	7.0	67.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	2121.0	2121.0	U	77.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2122.0	2122.0	U	110.0			QL=4 ST=2 TYP=3	
200	HIRA	7 C	2315.0	2316.0	5.0	30.0			0	
17	245	LEAR	43 NS	0530.0	0530.0	52.0	89.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0700.0E		480.0D		14.0		V=1
	235	CUBA	44 NS	1400.0E		360.0D		7.0		
	280	CUBA	44 NS	1400.0E		360.0D		11.0		
	2804	VORO	41 F	0030.0	0038.2	8.2	1.3			
	2804	VORO	41 F	0030.0	0034.3	4.3	3.0			
	2804	VORO	41 F	0030.0	0031.8	2.5	2.3			
	410	LEAR	8 S	0033.0	0034.0	2.0	60.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0033.0	0034.0	2.0	72.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0034.0	0034.0	1.0	30.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0034.0	0034.0	U	110.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0034.0	0034.0	U	71.0			QL=4 ST=2 TYP=3
	2804	VORO	23 GRF	0110.0	0118.6	36.9	2.7			
	2804	VORO	1 S	0114.1	0115.6	2.3	2.7			
	2804	VORO	1 S	0137.5	0139.2	1.7	2.7			
	200	HIRA	8 S	0138.0	0139.0	1.0	175.0			0
	610	LEAR	8 S	0245.0	0245.0	1.0	98.0			QL=4 ST=2 TYP=3
	2804	VORO	42 SER	0334.9	0347.1	12.2	14.0			
	2804	VORO	42 SER	0334.9	0335.8	2.2	6.5			
	2840	PEKG	3 S	0344.0	0349.2	10.0	17.2			
	4995	LEAR	4 S/F	0349.0	0349.0	3.0	21.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0355.0	0355.0	1.0	75.0			0
	2840	PEKG	3 S	0452.0	0455.7	10.0	16.0			
	200	HIRA	8 S	0454.0	0455.0	1.0	90.0			0
	245	LEAR	8 S	0454.0	0454.0	1.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0454.0	0454.0	U	24.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0454.4	0455.6	2.2	14.8			
	410	LEAR	8 S	0455.0	0455.0	U	28.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0455.0	0455.0	1.0	42.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0455.0	0455.0	U	23.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	0522.0	0522.0	U	99.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0525.0	0525.0	U	67.0			QL=4 ST=2 TYP=3	
2840	PEKG	3 S	0533.0	0537.9	13.0	18.5				
2804	VORO	46 C	0535.2	0537.9	13.2	12.5				
9100	GORK	4 S/F	0636.6	0637.0	0.8	80.0				
2840	PEKG	3 S	0723.0	0728.1	9.0	11.2				

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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		
17	900	GORK	46 C	0723.1	0743.2		23.0			
	900	GORK	46 C	0723.1	0726.4	23.4	44.0			
	900	GORK	46 C	0723.1	0727.9		38.0			
	600	GORK	46 C	0724.0	0728.0		28.0			
	600	GORK	46 C	0724.0	0724.7	6.0	15.0			
	610	LEAR	8 S	0727.0	0727.0	1.0	30.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0727.0	0727.0	U	24.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0727.2	0727.9	1.9	9.7	4.3		
	2950	GORK	1 S	0727.3	0728.0	1.6	20.0			
	204	IZMI	7 C	0731.7	0731.7	0.1	8.0			
	204	IZMI	41 F	0750.7	0750.9	0.4	13.0			
	204	IZMI	42 SER	0840.9	0844.2	5.6	27.0			
	900	GORK	40 F	0854.3	0900.0	5.7	20.0			
	204	IZMI	42 SER	0956.4	0957.3	1.4	28.0			
	600	GORK	46 C	1008.4	1016.1		28.0			
	204	IZMI	41 F	1008.4	1009.4	1.1	40.0			
	900	GORK	40 F	1008.4	1011.7		34.0			
	900	GORK	40 F	1008.4	1014.7		54.0			
	600	GORK	46 C	1008.4	1013.7	23.9	120.0			
	900	GORK	40 F	1008.4	1008.8	18.8	29.0			
	33	UPIC	46 C	1012.5	1015.5	16.5				
	2950	GORK	46 C	1012.9	1016.3		130.0			
	2950	GORK	46 C	1012.9	1019.3		43.0			
	2950	GORK	46 C	1012.9	1015.6	20.1	115.0			
	610	LEAR	46 C	1013.0	1013.0	U	23.0			QL=2 ST=2 TYP=8
	9100	GORK	47 GB	1013.0	1015.9	17.0	720.0			
	3000	IZMI	45 C	1013.1	1015.6	13.3	100.0	20.0		
	204	IZMI	42 SER	1013.8	1015.9	3.0	282.0	4.0		
	2695	LEAR	48 C	1014.0	1015.0	8.0	85.0			QL=2 ST=2 TYP=8
	4995	LEAR	48 C	1014.0	1015.0	8.0	260.0			QL=2 ST=2 TYP=8
	8800	LEAR	48 C	1014.0	1015.0	8.0	470.0			QL=2 ST=2 TYP=8
	15400	LEAR	48 C	1014.0	1015.0	8.0	580.0			QL=2 ST=2 TYP=8
	204	IZMI	42 SER	1022.6	1024.3	18.9	55.0			
	410	SVTO	8 S	1034.0	1035.0	2.0	55.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1035.0	1035.0	1.0	42.0			QL=4 ST=2 TYP=3
	600	GORK	40 F	1035.0	1035.2	1.0	10.0			
	3000	IZMI	22 GRF	1122.6	1123.4	2.0	11.0	4.2		
	204	IZMI	42 SER	1156.3	1156.7	0.4	11.0			
	610	SVTO	8 S	1238.0	1239.0	2.0	73.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1431.9	1432.6	1.3	4600.0	1300.0		
	245	SVTO	8 S	1434.0	1435.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1435.0	1435.0	U	65.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1435.0	1436.2	5.0	16.0	8.0		10L
	9500	CUBA	1 S	1435.2	1435.8	1.7	6.0	3.0		
	6700	CUBA	2 S/F	1514.5	1519.0	4.5	14.0	7.0		41R
	9500	CUBA	2 S/F	1515.2	1518.5	4.5	11.0	5.0		
	9500	CUBA	2 S/F	1536.0	1536.9	1.5	17.0	8.0		
	6700	CUBA	1 S	1536.1	1537.0	2.9	12.0	6.0		21L
	245	SGMR	8 S	1628.0	1628.0	U	52.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1703.2	1703.5	1.8	11.0	5.0		25R
245	PALE	8 S	1704.0	1704.0	U	91.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	1708.0	1709.0	1.0	74.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	1709.0	1709.0	U	39.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1848.0	1849.0	1.0	350.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	1849.0	1849.0	U	600.0			QL=4 ST=2 TYP=6	
410	PALE	8 S	1849.0	1849.0	U	32.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1917.0	1917.0	U	78.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1917.0	1917.0	U	60.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	1923.0	1929.0	10.0U	349.0				
8800	SGMR	49 GB	1926.0	1928.0	8.0	1000.0			QL=4 ST=2 TYP=6	
6700	CUBA	49 GB	1926.2	1928.5	13.2	856.0	428.0		3R C.POL	
235	CUBA	7 C	1926.6	1929.2	4.5	101.0	51.0			
280	CUBA	7 C	1926.6	1929.2	4.5	152.0	76.0			
9500	CUBA	47 GB	1926.7	1933.2	11.1	603.0	301.0			
8800	PALE	49 GB	1927.0	1929.0	9.0	1000.0			QL=4 ST=2 TYP=6	
4995	PALE	4 S/F	1927.0	1928.0	8.0	790.0			QL=4 ST=2 TYP=3	
4995	SGMR	49 GB	1927.0	1928.0	7.0	780.0			QL=4 ST=2 TYP=6	
15400	SGMR	49 GB	1927.0	1928.0	7.0	950.0			QL=4 ST=2 TYP=6	
245	SGMR	4 S/F	1927.0	1928.0	7.0	270.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
17	610	SGMR	4 S/F	1927.0	1928.0	7.0	290.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1927.0	1928.0	7.0	94.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1927.0	1928.0	7.0	240.0			QL=4 ST=2 TYP=3
	15400	PALE	49 GB	1928.0	1929.0	4.0	930.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	1928.0	1928.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1928.0	1929.0	1.0	180.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1928.0	1928.0	1.0	290.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1928.0	1929.0	1.0	79.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1928.0	1929.0	2.0	280.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1928.0	1929.0	4.0	280.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1928.0	1928.0	5.0	170.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1935.0	1935.0	U	31.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2230.0	2231.0	1.0	40.0			0
2804	VORO	1 S	2353.2	2353.8	1.7	2.9				
18	127	TORN	44 NS	0730.0E		300.0D		16.0		V=1
	235	CUBA	44 NS	1400.0E		270.0D		4.0		
	280	CUBA	44 NS	1400.0E		270.0D		16.0		
	245	SGMR	43 NS	1705.0	1716.0	11.0	66.0			QL=4 ST=2 TYP=1
	2804	VORO	20 GRF	0020.0	0028.7	30.0	4.6			
	245	LEAR	8 S	0045.0	0045.0	U	300.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0045.0	0045.0	U	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0046.0	0046.0	1.0	155.0			WR
	200	HIRA	7 C	0133.0	0144.0	14.0	355.0			WR
	245	PALE	4 S/F	0134.0	0136.0	4.0	300.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0135.0	0137.0	4.0	160.0			QL=4 ST=2 TYP=3
	2804	VORO	42 SER	0135.6	0144.2	9.0	6.2			
	2804	VORO	42 SER	0135.6	0136.9	4.3	9.9			
	245	LEAR	8 S	0136.0	0136.0	1.0	240.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0137.0	0137.0	U	95.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0143.0	0144.0	2.0	920.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0144.0	0144.0	1.0	950.0			QL=4 ST=3 TYP=6
	410	PALE	48 C	0145.0	0145.0	1.0	61.0			QL=4 ST=3 TYP=8
	410	LEAR	8 S	0146.0	0146.0	2.0	79.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0155.0	0156.0	1.0	40.0			0
	245	LEAR	8 S	0155.0	0155.0	U	86.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0156.0	0156.0	U	25.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0202.0	0208.2	11.0	12.5			
	2804	VORO	28 PRE	0202.6	0208.3	10.0	8.6			
	610	LEAR	48 C	0211.0	0217.0	26.0	2900.0			QL=4 ST=2 TYP=8
	2804	VORO	46 C	0212.6	0307.8	58.6	126.5			
	410	PALE	48 C	0213.0	0233.0	54.0	670.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0213.0	0217.0	1307.0	2200.0			QL=4 ST=1 TYP=8
	2840	PEKG	3 S	0215.0	0219.3	10.0	29.7			
	200	HIRA	27 RF	0224.0	0244.0	60.0	50.0			0
	1415	LEAR	46 C	0228.0	0230.0	9.0	23.0			QL=4 ST=2 TYP=8
	4995	LEAR	46 C	0228.0	0235.0	9.0	27.0			QL=4 ST=2 TYP=8
	410	LEAR	49 GB	0230.0	0233.0	7.0	520.0			QL=4 ST=2 TYP=6
	245	LEAR	46 C	0236.0	0236.0	U	46.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0241.0	0258.0	17.0	69.0			QL=4 ST=2 TYP=8
	4995	PALE	46 C	0241.0	0254.0	17.0	40.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	0241.0	0241.0	26.0	77.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	0241.0	0241.0	33.0	77.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0242.0	0307.0	49.0	25000.0			QL=4 ST=2 TYP=8
	2840	PEKG	3 S	0243.0	0253.7	15.0	83.3			
2695	LEAR	48 C	0248.0	0307.0	41.0	110.0			QL=4 ST=2 TYP=8	
1415	PALE	48 C	0258.0	0307.0	1262.0	27000.0			QL=4 ST=1 TYP=8	
2840	PEKG	3 S	0259.0	0307.9	19.0	89.3				
610	LEAR	48 C	0300.0	0307.0	11.0	84.0			QL=4 ST=2 TYP=8	
245	LEAR	46 C	0302.0	0302.0	15.0	14.0			QL=4 ST=2 TYP=8	
610	PALE	4 S/F	0303.0	0307.0	6.0	75.0			QL=4 ST=2 TYP=3	
4995	LEAR	20 GRF	0303.0	0316.0	26.0	38.0			QL=4 ST=2 TYP=2	
2695	PALE	48 C	0304.0	0308.0	6.0	100.0			QL=4 ST=2 TYP=8	
2804	VORO	29 PBI	0311.2	0311.4	130.0					
1415	PALE	8 S	0319.0	0319.0	U	130.0			QL=4 ST=2 TYP=3	
410	PALE	46 C	0321.0	0321.0	U	32.0			QL=4 ST=2 TYP=8	
245	PALE	8 S	0321.0	0322.0	1.0	61.0			QL=4 ST=2 TYP=3	
410	LEAR	45 C	0328.0	0328.0	U				QL=4 ST=2 TYP=8	
8800	LEAR	46 C	0331.0	0331.0	U	21.0			QL=4 ST=2 TYP=8	

S O L A R R A D I O E M I S S I O N
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MARCH 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
18	200	HIRA	8 S	0341.0	0341.0	1.0	65.0		0	
	200	HIRA	7 C	0403.0	0404.0	2.0	25.0		0	
	200	HIRA	8 S	0429.0	0429.0	1.0	125.0		0	
	245	LEAR	8 S	0429.0	0429.0	U	110.0		0	QL=4 ST=2 TYP=3
	200	HIRA	7 C	0517.0	0519.0	4.0	35.0		0	
	3000	IZMI	5 S	0706.6	0706.9	0.9	8.0	3.7		
	600	GORK	40 F	0716.5	0724.3	10.1	29.0			
	900	GORK	41 F	0720.5	0721.2	5.3	17.0			
	900	GORK	41 F	0720.5	0724.2		50.0			
	204	IZMI	42 SER	0721.6	0722.6	4.0	40.0			
	204	IZMI	7 C	0758.1	0758.2	0.2	15.0			
	204	IZMI	42 SER	0810.8	0812.1	1.4	32.0			
	600	GORK	40 F	0837.8	0840.5	3.1	30.0			
	900	GORK	7 C	0839.3	0840.0		11.0			
	900	GORK	7 C	0839.3	0839.5	0.9	3.7			
	245	LEAR	8 S	0923.0	0923.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0923.0	0923.0	U	150.0			QL=4 ST=2 TYP=3
	600	GORK	7 C	0923.4	0926.2		15.0			
	900	GORK	41 F	0923.4	0926.3		7.4			
	900	GORK	41 F	0923.4	0923.6	5.6	8.6			
	600	GORK	7 C	0923.4	0923.6	3.3	16.0			
	204	IZMI	7 C	0924.5	0924.5	0.1	15.0			
	33	UPIC	4 S/F	0926.0	0926.5	1.5				
	204	IZMI	7 C	0926.2	0926.6	0.4	23.0			
	127	TORN	48 C	0926.6	0926.6	1.2	650.0	150.0		
	245	SVTO	8 S	0933.0	0933.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1030.4	1030.4	5.1	41.0			
	204	IZMI	46 C	1044.9	1045.1	0.8	114.0			
	245	SVTO	8 S	1045.0	1045.0	U	71.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1045.0	1045.0	U	26.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1045.0U	1045.3	1.0U	560.0	280.0		DISTURBED
	900	GORK	46 C	1100.3	1101.2		80.0			
	900	GORK	46 C	1100.3	1100.5	2.7	15.0			
	204	IZMI	41 F	1102.7	1102.8	0.2	14.0			
	900	GORK	40 F	1117.5	1118.6	1.4	16.0			
	3000	IZMI	22 GRF	1142.3	1144.8	5.5	40.0	15.0		
	245	SGMR	8 S	1144.0	1144.0	U	46.0			QL=2 ST=2 TYP=3
	2695	SGMR	8 S	1144.0	1145.0	2.0	36.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1144.0	1144.0	1.0	71.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	1144.0	1145.0	2.0	64.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1144.0	1145.0	2.0	61.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1144.0	1145.0	3.0	77.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1144.0	1145.0	4.0	35.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1144.6	1144.7	0.2	206.0			
	15400	SGMR	46 C	1145.0	1145.0	U	22.0			QL=2 ST=2 TYP=8
	245	SGMR	49 GB	1247.0	1247.0	U	550.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1247.0	1247.0	U	340.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1313.0	1313.0	1.0	190.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1313.0	1313.0	1.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1551.0	1551.0	U	60.0			QL=4 ST=2 TYP=3
1415	SGMR	8 S	1601.0	1601.0	U	290.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1604.0	1604.0	U	74.0			QL=4 ST=2 TYP=3	
245	SVTO	48 C	1604.0	1604.0	U	54.0			QL=4 ST=2 TYP=8	
2800	PENT	1 S	1620.0	1624.0	10.0	37.0				
610	SGMR	8 S	1623.0	1624.0	2.0	75.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1623.0	1624.0	2.0	280.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1623.0	1624.0	2.0	59.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1623.0	1624.0	2.0	46.0			QL=2 ST=2 TYP=3	
610	SVTO	8 S	1623.0	1624.0	2.0	46.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1623.0	1624.0	2.0	280.0			QL=2 ST=2 TYP=3	
1415	SVTO	8 S	1623.0	1624.0	2.0	280.0			QL=4 ST=2 TYP=3	
9500	CUBA	1 S	1623.5	1624.0	1.3	11.0	5.0			
410	SGMR	8 S	1624.0	1624.0	1.0	110.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1624.0	1624.0	1.0	230.0			QL=2 ST=2 TYP=3	
410	SVTO	8 S	1624.0	1624.0	1.0	230.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1631.0	1631.0	U	53.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1633.0	1633.0	U	53.0			QL=2 ST=2 TYP=3	
410	SVTO	8 S	1633.0	1633.0	U	58.0			QL=2 ST=2 TYP=3	
2800	PENT	4 S/F	1902.0	1912.0	25.0	80.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks	
18	410	PALE	48 C	1911.0	1911.0	U	53.0			QL=4 ST=2 TYP=8	
	245	SGMR	8 S	1911.0	1911.0	U	150.0			QL=4 ST=2 TYP=3	
	2695	SGMR	8 S	1911.0	1911.0	2.0	69.0			QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1911.0	1911.0	2.0	88.0			QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	1911.0	1911.0	2.0	31.0			QL=4 ST=2 TYP=3	
	4995	PALE	48 C	1912.0	1913.0	1.0	63.0			QL=4 ST=2 TYP=8	
	15400	PALE	46 C	1912.0	1912.0	2.0	39.0			QL=4 ST=2 TYP=8	
	245	SGMR	8 S	1915.0	1916.0	1.0	110.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	1916.0	1916.0	U	140.0			QL=4 ST=2 TYP=3	
	610	PALE	8 S	1916.0	1916.0	U	65.0			QL=4 ST=2 TYP=3	
	2800	PENT	4 S/F	2148.0	2151.0	10.0	15.0				
	1415	SGMR	8 S	2149.0	2150.0	2.0	180.0			QL=2 ST=2 TYP=3	
	610	PALE	8 S	2150.0	2151.0	1.0	330.0			QL=4 ST=2 TYP=3	
	1415	PALE	8 S	2150.0	2150.0	2.0	180.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2150.0	2150.0	1.0	99.0			QL=2 ST=2 TYP=3	
	610	SGMR	8 S	2150.0	2151.0	1.0	120.0			QL=2 ST=2 TYP=3	
	245	PALE	8 S	2151.0	2151.0	U	140.0			QL=4 ST=2 TYP=3	
	200	HIRA	7 C	2159.0	2200.0	6.0	160.0			0	
19	204	IZMI	44 NS	0700.0E		320.0D		15.0			
	127	TORN	43 NS	0830.0		390.0		27.0		V=1	
	245	SGMR	43 NS	1218.0	1323.0	65.0	74.0			QL=4 ST=2 TYP=1	
	2840	PEKG	1 S	0120.0	0122.8	6.0	4.7				
	2804	VORO	1 S	0120.8	0122.8	4.0	5.8				
	2804	VORO	1 S	0353.8	0354.4	1.8	3.8				
	2950	GORK	23 GRF	0721.0	0730.6	22.7	4.4				
	2950	GORK	23 GRF	0721.0	0741.8		3.3				
	9100	GORK	41 F	0737.4	0738.5	2.6	105.0				
	9100	GORK	41 F	0737.4	0738.7		145.0				
	600	GORK	40 F	0902.2	0909.6	26.6	9.3				
	9100	GORK	46 C	0906.4	0907.7	2.9	170.0				
	9100	GORK	46 C	0906.4	0908.8		75.0				
	2950	GORK	40 F	0908.3	0911.5	21.4	7.8				
	900	GORK	46 C	0915.8	0918.1	6.9	4.9				
	900	GORK	46 C	0915.8	0919.1		9.8				
	900	GORK	46 C	1011.2	1013.0	2.2	37.0				
	900	GORK	46 C	1011.2	1013.2		25.0				
	900	GORK	4 S/F	1014.5	1014.8	1.4	25.0				
	900	GORK	40 F	1020.6	1029.8	9.9	60.0				
	204	IZMI	42 SER	1023.8	1025.8	2.8	83.0				
	33	UPIC	46 C	1024.0	1029.5	6.5					
	600	GORK	46 C	1024.7	1028.0	5.6	60.0				
	600	GORK	46 C	1024.7	1029.3		100.0				
	127	TORN	48 C	1024.8	1026.4	5.2	690.0	240.0			DISTURBED
	245	SVTO	8 S	1027.0	1028.0	2.0	92.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1027.7	1029.7	2.3	94.0				
	410	SVTO	8 S	1028.0	1028.0	U	29.0				QL=4 ST=2 TYP=3
	900	GORK	4 S/F	1046.0	1046.2	1.0	65.0				
	2950	GORK	2 S/F	1047.1	1049.1	4.8	3.3				
	9100	GORK	46 C	1050.9	1052.0	2.3D	750.0				
	9100	GORK	46 C	1050.9	1052.8		370.0U				
	3000	IZMI	22 GRF	1107.7	1127.2	72.3D	34.0				
204	IZMI	25 R	1123.0		57.0D			20.0			
610	SGMR	48 C	1125.0	1128.0	8.0	140.0				QL=4 ST=2 TYP=8	
127	TORN	49 GB	1125.6	1128.0	55.6	470.0	60.0				
245	SGMR	48 C	1126.0	1126.0	U	89.0				QL=4 ST=2 TYP=8	
245	SVTO	8 S	1126.0	1126.0	U	76.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1218.0	1218.0	2.0	57.0				QL=4 ST=2 TYP=3	
204	IZMI	42 SER	1218.1	1218.4	0.8	165.0					
245	SGMR	48 C	1845.0	1845.0	U	50.0				QL=4 ST=2 TYP=8	
500	HIRA	8 S	2333.0	2334.0	2.0	30.0				WR	
200	HIRA	8 S	2333.0	2335.0	2.0	60.0					
20	204	IZMI	44 NS	0700.0E		139.0D		30.0			
	127	TORN	44 NS	0700.0E		480.0D		30.0		V=2	
	245	SGMR	43 NS	1545.0	1555.0	10.0	200.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1838.0	1838.0	40.0	54.0			QL=4 ST=2 TYP=1	
	200	HIRA	8 S	0001.0	0001.0	1.0	15.0				
	245	LEAR	8 S	0402.0	0402.0	1.0	230.0				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		
20	245	LEAR	48 C	0411.0	0414.0	3.0	150.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0600.0	0600.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0600.0	0600.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0655.0	0657.0	2.0	140.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0657.0	0658.0	1.0	30.0			WR
	200	HIRA	8 S	0657.0	0657.0	1.0	50.0			
	245	LEAR	8 S	0657.0	0657.0	U	75.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0657.0	0657.0	U	71.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0657.0	0657.0	U	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0808.0	0808.0	U	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0808.0	0808.0	U	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0837.0	0838.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0837.0	0838.0	1.0	300.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0837.8	0837.9	0.7	40.0			
	204	IZMI	42 SER	0907.9	0910.2	2.3	59.0			
	204	IZMI	42 SER	0914.8	0914.8	3.5	88.0			
	245	LEAR	8 S	0936.0	0936.0	U	500.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0936.0	0937.0	1.0	470.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0936.8	0937.2	1.5	352.0			
	204	IZMI	45 C	0949.3	0949.6	0.4	123.0			
	204	IZMI	42 SER	1023.5	1024.3	1.0	20.0			
	3000	IZMI	1 S	1154.2	1154.3	0.4	6.0	4.0		
	245	SGMR	49 GB	1225.0	1225.0	1.0	1300.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1225.0	1225.0	1.0	1100.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1323.0	1323.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1323.0	1323.0	U	60.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	1404.7	1405.3	3.4	230.0	70.0		
	245	SGMR	8 S	1408.0	1408.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1408.0	1408.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1554.0	1555.0	5.0	110.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1705.0	1705.0	U	73.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1705.0	1705.0	U	220.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1705.0	1705.0	1.0	320.0			QL=4 ST=2 TYP=8
	4995	PALE	8 S	1705.0	1705.0	U	170.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	1707.0	1708.0	8.0	170.0			QL=4 ST=2 TYP=8
610	PALE	48 C	1707.0	1708.0	8.0	100.0			QL=4 ST=2 TYP=8	
1415	PALE	48 C	1707.0	1711.0	7.0	100.0			QL=4 ST=2 TYP=8	
245	SGMR	48 C	1733.0	1733.0	2.0	93.0			QL=4 ST=3 TYP=8	
245	SGMR	8 S	1838.0	1838.0	U	54.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2143.0	2143.0	1.0	310.0			0	
245	PALE	48 C	2143.0	2143.0	U	730.0			QL=4 ST=2 TYP=8	
245	SGMR	8 S	2143.0	2143.0	U	330.0			QL=4 ST=2 TYP=3	
200	HIRA	47 GB	2338.0	2338.0	1.0	870.0			0	
245	LEAR	8 S	2338.0	2338.0	U	310.0			QL=2 ST=2 TYP=3	
410	LEAR	8 S	2338.0	2338.0	U	29.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	2338.0	2338.0	U	440.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2338.0	2338.0	U	88.0			QL=4 ST=2 TYP=3	
500	HIRA	7 C	2347.0	0001.0	19.0	35.0			0	
2800	PENT	4 S/F	2353.0	2416.0	60.0	77.0				
21	245	LEAR	43 NS	0243.0	0245.0	28.0	100.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0700.0E		300.0D		10.0		
	127	TORN	44 NS	0700.0E		460.0D		44.0		V=2
	2840	PEKG	3 S	0004.0	0016.2	34.0	57.8			
	200	HIRA	7 C	0005.0	0008.0	7.0	150.0			WL
	2800	HIRA	3 S	0007.0	0016.0	27.0	75.0			0
	2695	LEAR	48 C	0007.0	0015.0	23.0	83.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0007.0	0016.0	44.0	67.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0008.0	0016.0	15.0	65.0			QL=4 ST=2 TYP=8
	1415	PALE	4 S/F	0011.0	0016.0	9.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0011.0	0016.0	11.0	72.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0011.0	0024.0	13.0	150.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	0012.0	0020.0	16.0	15.0			0
	610	LEAR	48 C	0029.0	0033.0	4.0	71.0			QL=2 ST=2 TYP=8
	200	HIRA	8 S	0040.0	0040.0	1.0	35.0			0
	245	LEAR	48 C	0040.0	0040.0	U	76.0			QL=2 ST=2 TYP=8
	245	LEAR	8 S	0135.0	0135.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0152.0	0153.0	1.0	64.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	0156.0	0156.0	U	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 Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
21	245	LEAR	8 S	0230.0	0230.0	U	200.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0233.0	0234.0	3.0	60.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	0240.0	0240.0	U	58.0			QL=4 ST=2 TYP=8
	2950	GORK	21 GRF	0746.1	0810.1	109.9	9.3			
	9100	GORK	20 GRF	0746.6	0801.0	40.4	10.0			
	2950	GORK	2 S/F	0751.7	0752.2	1.1	5.3			
	33	UPIC	46 C	1013.5	1021.5	9.0				UNCERTN
	245	SVTO	8 S	1017.0	1017.0	1.0	310.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1807.0	1807.0	U	99.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1807.0	1807.0	U	96.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1927.0	1927.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2155.0	2156.0	1.0	61.0			QL=4 ST=2 TYP=3
500	HIRA	8 S	2207.0	2208.0	1.0	20.0			WR	
200	HIRA	8 S	2207.0	2208.0	1.0	50.0			0	
22	127	TORN	44 NS	0640.0E		460.0D		23.0		V=2
	500	HIRA	8 S	0247.0	0247.0	1.0	10.0			ML
	200	HIRA	8 S	0247.0	0247.0	1.0	15.0			0
	2840	PEKG	3 S	0610.0	0613.4	10.0	11.1			
	127	TORN	4 S/F	0638.4	0639.0	1.4	1500.0	530.0		
	900	GORK	41 F	0940.8	0942.2		28.0			
	900	GORK	41 F	0940.8	0941.3	2.2	83.0			
	900	GORK	41 F	0940.8	0941.5		172.0			
	204	IZMI	42 SER	1010.7	1010.9	2.5	73.0	9.0		
	204	IZMI	42 SER	1047.0	1047.2	2.5	54.0			
	9100	GORK	24 R	1047.2	1118.0	48.8D	25.0			
	3000	IZMI	22 GRF	1047.5	1100.0U	65.0	59.0			
900	GORK	20 GRF	1100.5	1105.1	8.7	6.1				
2950	GORK	20 GRF	1100.8	1103.8	12.7	27.0				
600	GORK	20 GRF	1101.5	1108.5	11.7	18.0				
9500	CUBA	20 GRF	1342.0E	1342.0	44.0D	21.0	10.0			
23	127	TORN	43 NS	0700.0		480.0		13.0		V=1
	2950	GORK	20 GRF	0637.5	0642.0	11.1	19.0			
	900	GORK	5 S	0647.3U	0651.0	6.9D	6.1			
	204	IZMI	42 SER	0742.4	0742.9	1.5	49.0			
	204	IZMI	7 C	0926.5	0926.5	0.1	6.0			
	245	LEAR	8 S	0953.0	0953.0	U	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0953.0	0953.0	U	99.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0953.0	0953.3	1.0	151.0			
	600	GORK	46 C	1116.8	1117.3	1.0	17.0			
	600	GORK	46 C	1116.8	1117.4		20.0			
	245	SVTO	8 S	1202.0	1202.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1421.0	1421.0	U	62.0			QL=4 ST=2 TYP=3
410	PALE	8 S	2112.0	2112.0	U	62.0			QL=4 ST=2 TYP=3	
24	127	TORN	44 NS	0640.0E		500.0D		14.0		V=0
	410	SGMR	43 NS	1251.0	1251.0	22.0	62.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1400.0E		300.0D		2.0		
	200	HIRA	8 S	0750.0	0750.0	1.0	75.0			WL
	900	GORK	46 C	0829.3	0831.0	2.2	24.0			
	900	GORK	46 C	0829.3	0831.3		12.0			
	2840	PEKG	1 S	0911.0	0915.3	9.0	6.3			
	2950	GORK	1 S	0915.0	0915.3	1.0	6.0			
	3000	IZMI	5 S	0915.1	0915.2	0.8	9.0	6.0		
	900	GORK	3 S	0928.8	0929.0	0.4	270.0			
	204	IZMI	42 SER	1048.9	1049.0	0.7	6.0			
	245	PALE	8 S	1841.0	1841.0	1.0	1000.0			QL=4 ST=3 TYP=3
	245	PALE	49 GB	1944.0	1945.0	1.0	1600.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1944.0	1945.0	1.0	2500.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1944.0	1945.0	1.0	2500.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2018.0	2018.0	1.0	140.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2018.0	2018.0	1.0	120.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	2033.0	2035.0	9.0	15.0				
25	127	TORN	44 NS	0640.0E		500.0D		9.0		V=0
	200	HIRA	8 S	0034.0	0035.0	3.0	25.0			0
	900	GORK	4 S/F	0637.4	0637.6	0.4	17.0			
	900	GORK	2 S/F	0722.2	0722.4	0.5	6.8			

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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 2 Hz)			
25	600	GORK	2 S/F	0722.2	0722.5	0.5	13.0			
	2950	GORK	2 S/F	0900.3	0901.4	2.5	4.6			
	900	GORK	7 C	0919.8	0920.2	7.2	4.5			
	900	GORK	7 C	0919.8	0920.6		11.0			
	900	GORK	42 SER	1012.3	1042.5	30.2	16.0			
	900	GORK	42 SER	1012.3	1054.7		7.9			
	600	GORK	46 C	1031.7	1036.0	8.1	16.0			
	600	GORK	46 C	1031.7	1036.7		30.0			
	2950	GORK	46 C	1032.7	1035.2	7.3D	30.0			
	2950	GORK	46 C	1032.7	1036.7		40.0			
	900	GORK	46 C	1033.7	1035.1	9.3	42.0			
	900	GORK	46 C	1033.7	1036.8		39.0			
	3000	IZMI	22 GRF	1033.8	1036.8	7.7	42.0	8.7		
	9100	GORK	20 GRF	1034.4	1040.7	12.3	9.7			
	2695	SVTO	8 S	1035.0	1036.0	2.0	57.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1036.0	1036.0	1.0	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1036.0	1036.0	1.0	29.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	1126.3	1126.5	1.1	14.0			
	2950	GORK	2 S/F	1126.4	1126.6	1.2	8.0			
	3000	IZMI	5 S	1126.4	1126.6	0.6	9.0	4.4		
245	SGMR	8 S	1322.0	1322.0	U	68.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1322.0	1322.0	U	68.0			QL=4 ST=3 TYP=3	
26	127	TORN	44 NS	0640.0E		500.0D		12.0		V=1
	245	LEAR	8 S	0417.0	0417.0	U	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0424.0	0424.0	U	87.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0613.0	0613.0	U	41.0			QL=4 ST=2 TYP=3
	9100	GORK	8 S	0809.3	0809.5	0.4	28.0			
	9100	GORK	8 S	0838.5	0838.6	0.2	65.0			
	245	LEAR	8 S	0919.0	0919.0	U	600.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0919.0	0919.0	U	360.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0919.2	0919.3	0.3	747.0			
	204	IZMI	7 C	0924.8	0924.8	0.1	8.0			
	410	SVTO	4 S/F	1513.0	1516.0	4.0	55.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1514.0	1516.0	4.0	60.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1517.0	1517.0	U	22.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2115.0	2120.0	10.0	11.0			
27	127	TORN	43 NS	0830.0		360.0		15.0		V=1
	235	CUBA	44 NS	1600.0E		300.0D		6.0		
	280	CUBA	44 NS	1600.0E		300.0D		15.0		
	410	SGMR	43 NS	2109.0	2114.0	171.0	140.0			QL=4 ST=1 TYP=1
	2840	PEKG	1 S	0617.0	0620.2	8.0	6.8			
	2950	GORK	2 S/F	0619.6	0620.0	1.2	4.6			
	9100	GORK	7 C	0619.7	0620.2		4.8			
	9100	GORK	7 C	0619.7	0619.9	0.8	8.0			
	2804	VORO	1 S	0619.8	0620.1	1.3	4.6			
	900	GORK	8 S	0619.9	0620.0	0.3	18.0			
	600	GORK	3 S	0620.6	0620.8	0.5	15.0			
	900	GORK	41 F	0748.0	0749.4	2.9	8.6			
	900	GORK	41 F	0748.0	0751.5		6.1			
	204	IZMI	7 C	0838.0	0838.1	0.2	16.0			
	9100	GORK	2 S/F	0839.8	0840.3	0.9	11.0			
	2950	GORK	23 GRF	0842.0	0913.2		10.0			
	2950	GORK	23 GRF	0842.0	0846.4	96.0	8.1			
	900	GORK	40 F	0845.9	0846.9	2.1	15.0			
	600	GORK	1 S	0848.2	0848.4	0.5	5.3			
	900	GORK	46 C	0858.3	0859.1	4.2	16.0			
	900	GORK	46 C	0858.3	0901.2		17.0			
	900	GORK	42 SER	1021.1	1028.5		7.4			
	900	GORK	42 SER	1021.1	1021.5	47.9	3.7			
	9100	GORK	41 F	1022.7	1023.2	8.2	145.0			
	9100	GORK	41 F	1022.7	1025.3		160.0			
	9100	GORK	41 F	1022.7	1024.4		24.0			
	9100	GORK	46 C	1043.3	1043.4	0.5	160.0			
9100	GORK	46 C	1043.3	1043.5		230.0				
245	SGMR	8 S	1256.0	1256.0	U	63.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1256.0	1256.0	1.0	55.0			QL=4 ST=2 TYP=3	
33	UPIC	45 C	1256.0	1256.5	2.0					

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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		
27	127	TORN	45 C	1330.2	1331.6	2.2	220.0	60.0		
28	127	TORN	44 NS	0640.0E		430.0D		10.0		V=0
	245	SVTO	43 NS	0643.0	0707.0	44.0	120.0			QL=2 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		300.0D		30.0		
	245	LEAR	43 NS	0710.0	0710.0	6.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0836.0	0836.0	31.0	54.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	0836.0	0836.0	30.0	55.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1315.0E		515.0D		5.0		
	280	CUBA	44 NS	1315.0E		515.0D		18.0		
	245	SGMR	43 NS	1743.0	1750.0	7.0	84.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1808.0	1808.0	352.0	67.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2304.0	2337.0	100.0	140.0			QL=4 ST=2 TYP=1
	2804	VORO	1 S	0022.0	0023.2	2.0	3.2			
	2840	PEKG	1 S	0503.0	0506.6	7.0	5.5			
	2804	VORO	1 S	0506.2	0506.4	1.8	4.6			
	245	LEAR	8 S	0539.0	0539.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0634.0	0635.0	3.0	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0635.0	0635.0	U	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0657.0	0657.0	U	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0707.0	0707.0	U	120.0			QL=4 ST=2 TYP=3
	9100	GORK	40 F	0735.6	0735.9	2.0	95.0			
	9100	GORK	1 S	0743.4	0743.5	0.3	9.4			
	245	LEAR	8 S	0831.0	0831.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0831.0	0831.0	1.0	71.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0923.0	0923.3	1.0	17.0			
	245	SVTO	8 S	0955.0	0956.0	1.0	58.0			QL=4 ST=2 TYP=3
	3000	IZMI	7 C	1137.1	1138.2	1.5	14.0	5.0		
	245	SGMR	8 S	1517.0	1517.0	U	71.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1517.0	1518.0	1.0	56.0			QL=4 ST=3 TYP=3
245	SGMR	8 S	1523.0	1524.0	1.0	61.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1701.0	1701.0	2.0	92.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1750.0	1752.0	2.0	73.0			QL=4 ST=3 TYP=3	
2800	PENT	3 S	1752.0	1758.0	13.0	10.0				
6700	CUBA	2 S/F	1755.5	1757.5	4.5	13.0	6.0		3R	
9500	CUBA	2 S/F	1755.5	1757.5	4.5	11.0	5.0			
245	SGMR	8 S	1931.0	1931.0	U	76.0			QL=4 ST=2 TYP=3	
29	127	TORN	44 NS	0640.0E		500.0D		15.0		V=1
	204	IZMI	44 NS	0720.0E		280.0D		15.0		
	245	SVTO	43 NS	1002.0	1004.0	31.0	110.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	1004.0	1004.0	7.0	100.0			QL=2 ST=3 TYP=1
	245	SVTO	43 NS	1247.0	1249.0	32.0	160.0			QL=2 ST=2 TYP=1
	245	SGMR	43 NS	1334.0	1245.0	1409.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1410.0E		460.0D		11.0		
	280	CUBA	44 NS	1410.0E		460.0D		18.0		
	245	SGMR	43 NS	1431.0	1439.0	14.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1700.0	1700.0	59.0	69.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1808.0	2119.0	390.0	230.0			QL=4 ST=3 TYP=1
	2804	VORO	42 SER	0145.6	0146.1	1.8	3.8			
	2804	VORO	42 SER	0145.6	0149.3	3.7	2.7			
	410	SVTO	8 S	0802.0	0803.0	1.0	44.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0803.0	0803.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0821.0	0821.0	U	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0821.0	0821.0	U	27.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1234.0	1234.0	1.0	110.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1244.0	1244.5	2.0				UNCERTN
	245	SGMR	8 S	1400.0	1401.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1439.0	1439.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1539.0	1539.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1614.0	1614.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1642.0	1643.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1745.0	1745.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1756.0	1756.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2000.0	2000.0	U	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2000.0	2000.0	U	61.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2043.0	2045.0	13.0	46.0			
	1415	SGMR	8 S	2044.0	2045.0	1.0	39.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2044.0	2045.0	1.0	49.0			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			
29	4995	SGMR	8 S	2044.0	2045.0	1.0	37.0			QL=4 ST=2 TYP=3	
	9500	CUBA	1 S	2045.4	2045.5	0.3	20.0	10.0			
	200	HIRA	8 S	2312.0	2313.0	2.0	245.0			0	
	245	LEAR	8 S	2312.0	2312.0	U	140.0			QL=4 ST=2 TYP=3	
	2804	VORO	40 F	2318.1	2318.5	1.6	3.9				
30	204	IZMI	44 NS	0700.0E		300.0D		20.0			
	127	TORN	43 NS	0750.0		370.0		20.0		V=1	
	500	HIRA	8 S	0248.0	0248.0	1.0	20.0			0	
	200	HIRA	8 S	0248.0	0248.0	1.0	60.0			0	
	245	LEAR	8 S	0248.0	0248.0	U	64.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	0248.0	0248.0	U	73.0			QL=4 ST=2 TYP=3	
	2840	PEKG	1 S	0646.0	0649.8	6.0	7.4				
	9100	GORK	1 S	0649.4	0649.7	0.7	9.7				
	2950	GORK	1 S	0649.5	0649.7	0.6	4.4				
	9100	GORK	2 S/F	0757.3	0757.6	0.5	24.0				
	900	GORK	41 F	0837.5	0840.5	5.5	11.0				
	900	GORK	41 F	0837.5	0842.7		13.0				
	900	GORK	41 F	0955.0	1011.4		68.0				
	900	GORK	41 F	0955.0	1005.5	16.6	150.0				
	900	GORK	40 F	1042.3	1100.2	18.5	9.0				
	4995	SVTO	4 S/F	1256.0	1258.0	3.0	50.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1256.0	1257.0	19.0	97.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1256.0	1257.0	24.0	120.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1256.0	1257.0	24.0	80.0				QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	1256.0	1257.0	27.0	98.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1257.0	1258.0	23.0	54.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1258.0	1258.0	U	24.0				QL=4 ST=2 TYP=3
	9500	CUBA	20 GRF	1346.0E	1346.0	129.0D	30.6	18.0			
	245	SGMR	8 S	1402.0	1402.0	U	280.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1402.0	1402.0	2.0	220.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1442.0	1442.0	U	69.0				QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1455.0E	1455.0	120.0D	17.0	8.0			16R
	245	SGMR	49 GB	1538.0	1539.0	1.0	710.0				QL=4 ST=2 TYP=6
	245	SVTO	8 S	1538.0	1539.0	1.0	430.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1538.0	1539.0	1.0	110.0				QL=4 ST=2 TYP=3
410	SGMR	8 S	1539.0	1539.0	U	40.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1551.0	1551.0	1.0	66.0				QL=4 ST=2 TYP=3	
610	SGMR	8 S	1551.0	1551.0	1.0	66.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	1551.0	1551.0	2.0	55.0				QL=4 ST=2 TYP=3	
610	SVTO	8 S	1551.0	1551.0	1.0	45.0				QL=4 ST=2 TYP=3	
6700	CUBA	1 S	2118.6	2119.0	1.4	5.0	2.0			80L	
200	HIRA	8 S	2332.0	2333.0	1.0	40.0				0	
31	127	TORN	43 NS	0828.0		392.0		16.0		V=0	
	235	CUBA	44 NS	1400.0E		60.0D		5.0			
	280	CUBA	44 NS	1400.0E		60.0D		16.0			
	2804	VORO	2 S/F	0418.2	0419.7	2.8	12.1				
	2840	PEKG	1 S	0540.0	0542.8	9.0	8.0				
	204	IZMI	41 F	0630.9	0631.5	0.7	21.0				
	204	IZMI	7 C	0636.9	0637.0	0.2	16.0				
	204	IZMI	7 C	0714.0	0714.1	0.2	35.0				
	900	GORK	41 F	0727.4	0742.4		35.0				
	900	GORK	41 F	0727.4	0734.8	15.6	25.0				
	9100	GORK	46 C	0838.1	0839.1	11.9	92.0				
	9100	GORK	46 C	0838.1	0839.4U		82.0U				
	2840	PEKG	1 S	0845.0	0849.1	9.0	7.9				
	3000	IZMI	40 F	0847.5	0848.9	6.4	10.0	4.0			
	2950	GORK	2 S/F	0850.0	0852.0	6.5	8.3				
	2950	GORK	21 GRF	1039.8	1101.5	44.2D	17.0				
	9100	GORK	20 GRF	1039.9	1052.9	44.1D	35.0				
	3000	IZMI	20 GRF	1040.4	1100.4	79.6D	19.0				
	2950	GORK	46 C	1044.8	1051.8		6.3				
	2950	GORK	46 C	1044.8	1046.9	9.4	9.5				
33	UPIC	45 C	1212.0	1213.5	2.0						
9500	CUBA	21 GRF	1234.0E	1234.0	169.0D	41.0	20.0				
6700	CUBA	21 GRF	1241.0E	1241.0	149.0D	19.0	9.0			19R	
245	SGMR	8 S	1302.0	1302.0	U	99.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1302.0	1302.0	U	67.0				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 02

MARCH 2002

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
31	6700 CUBA	2 S/F	1450.4	1452.1	3.8	14.0	7.0		53R
	1415 SGMR	48 C	1451.0	1452.0	3.0	84.0			QL=4 ST=2 TYP=8
	1415 SVTO	8 S	1451.0	1452.0	1.0	81.0			QL=4 ST=2 TYP=3
	9500 CUBA	2 S/F	1451.5	1453.2	3.5	24.0	12.0		
	610 SVTO	8 S	1453.0	1453.0	U	45.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

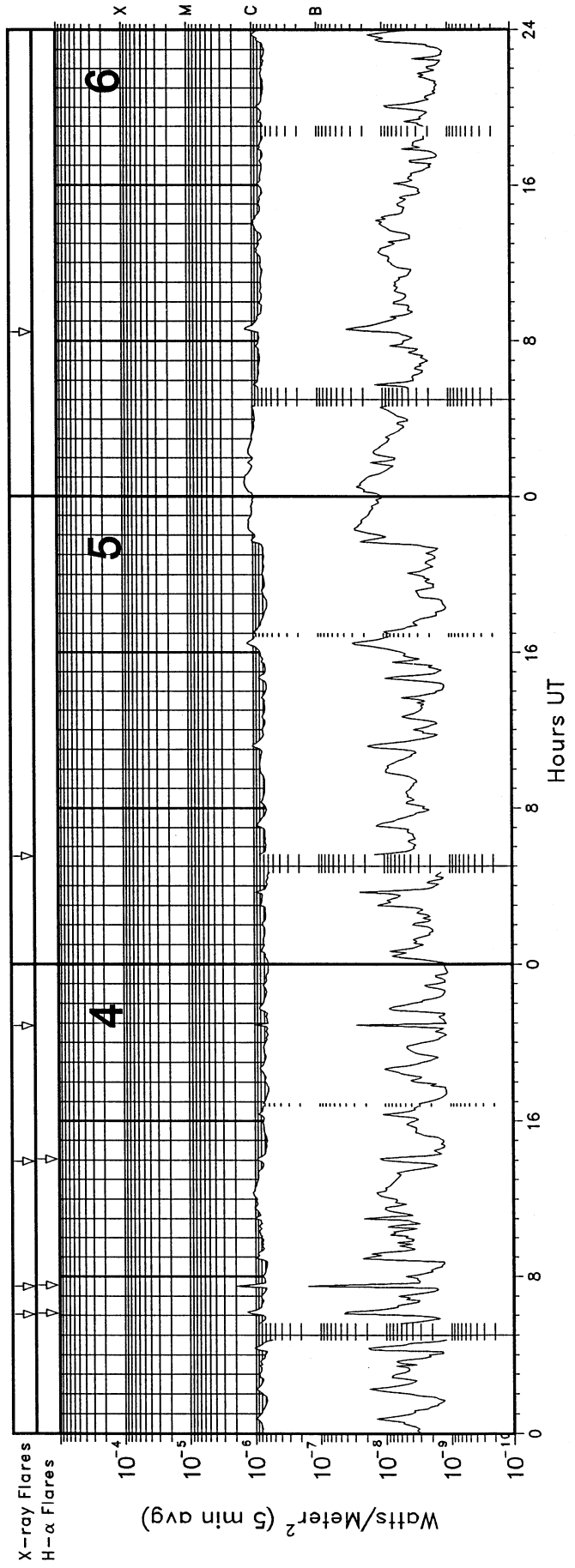
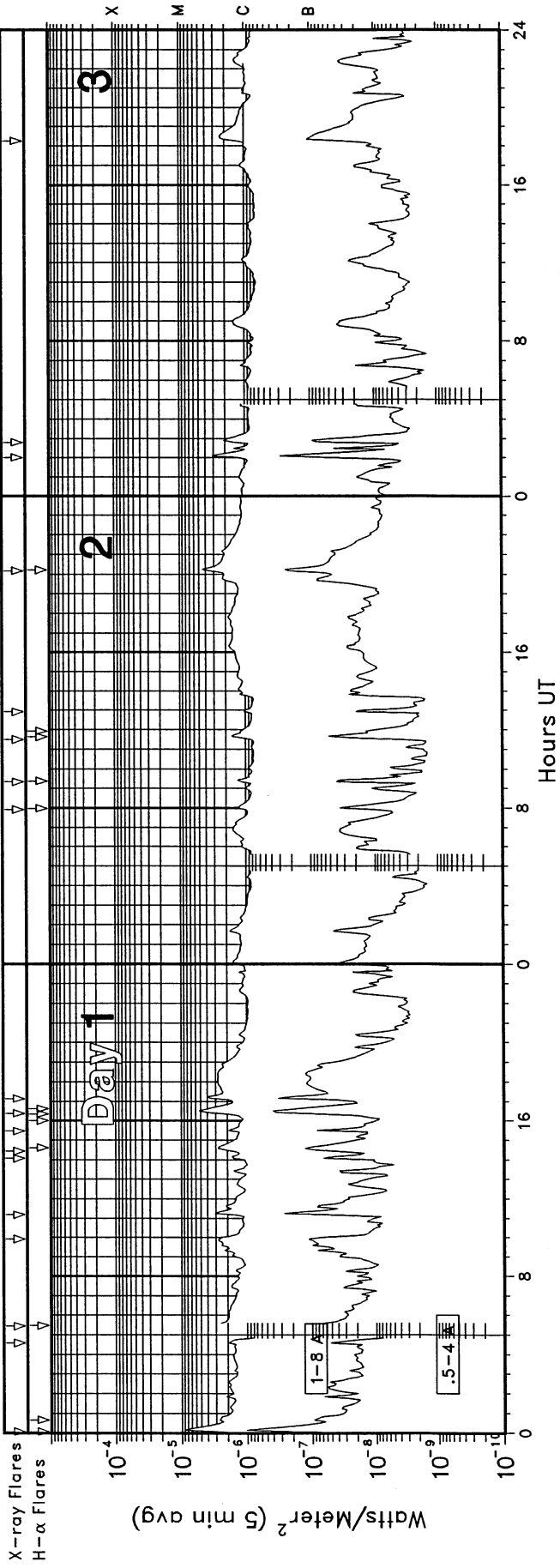
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN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

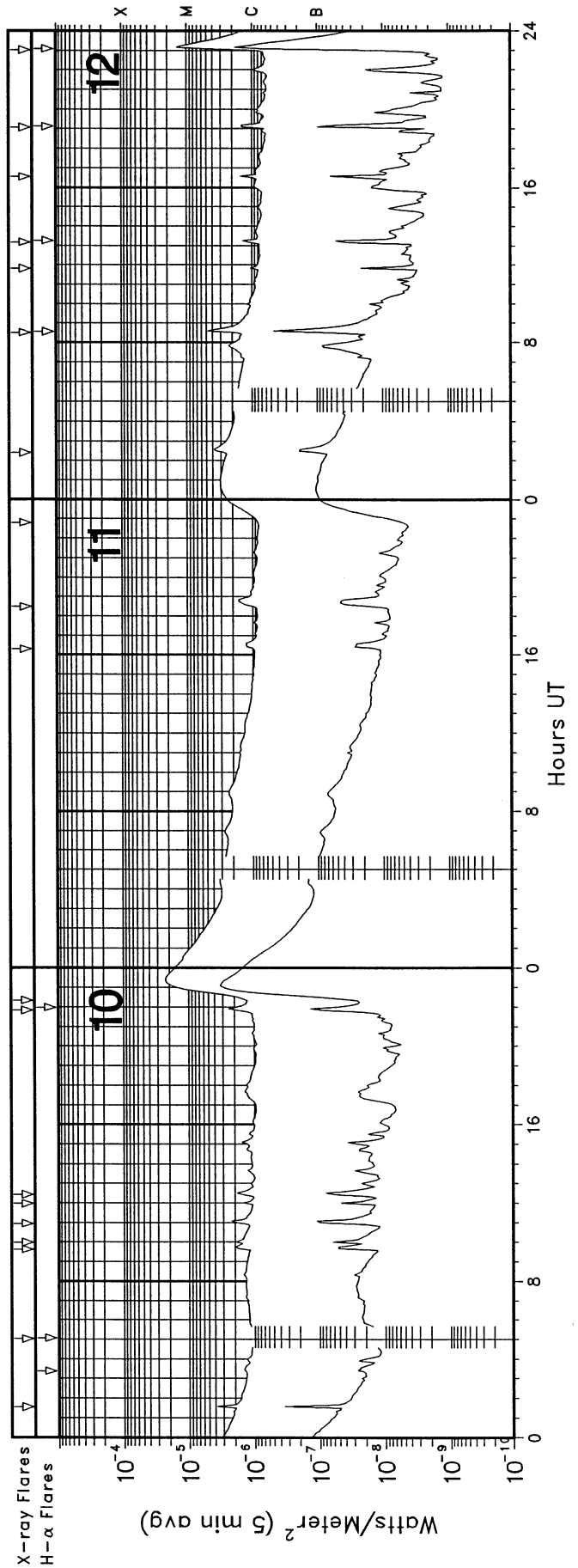
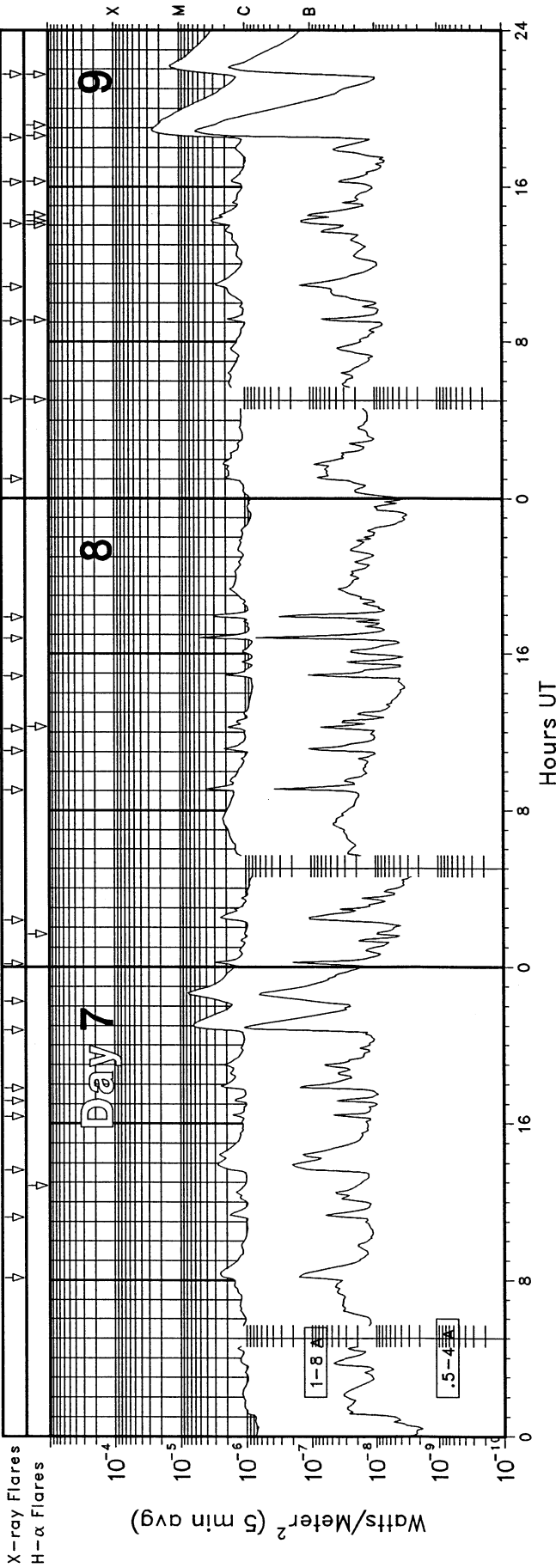
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500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

GOES X-RAY DETECTOR March 2002



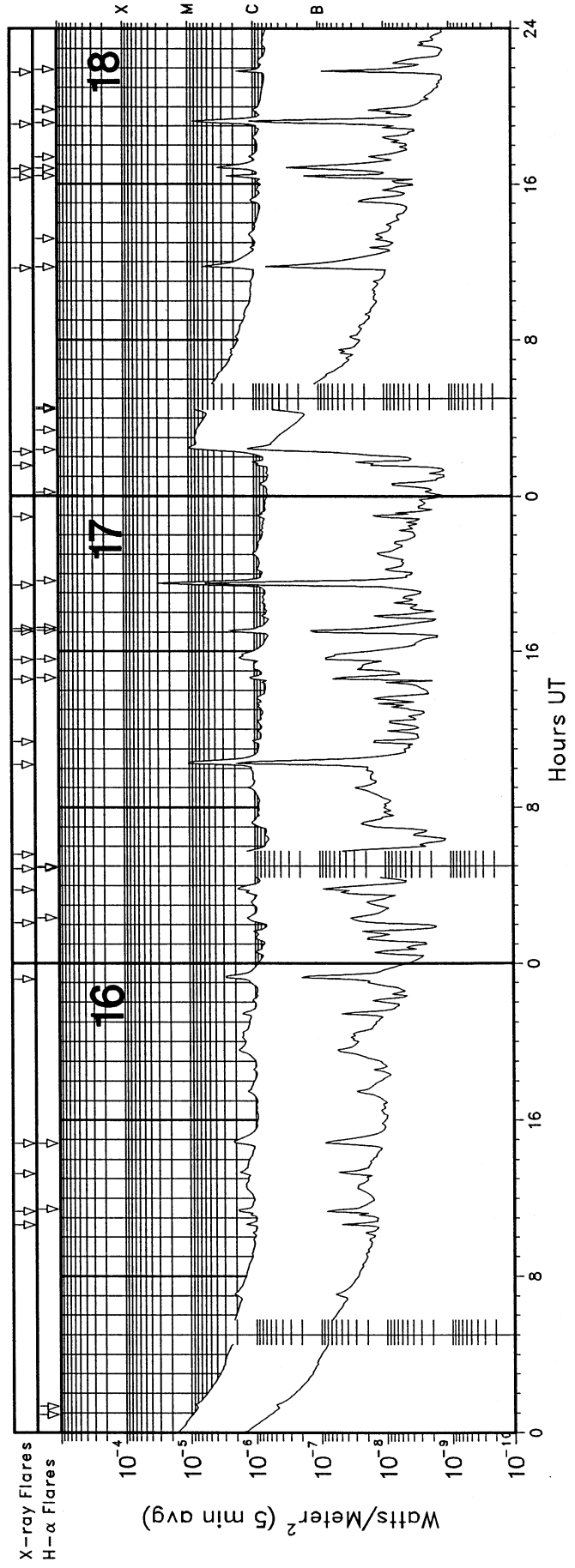
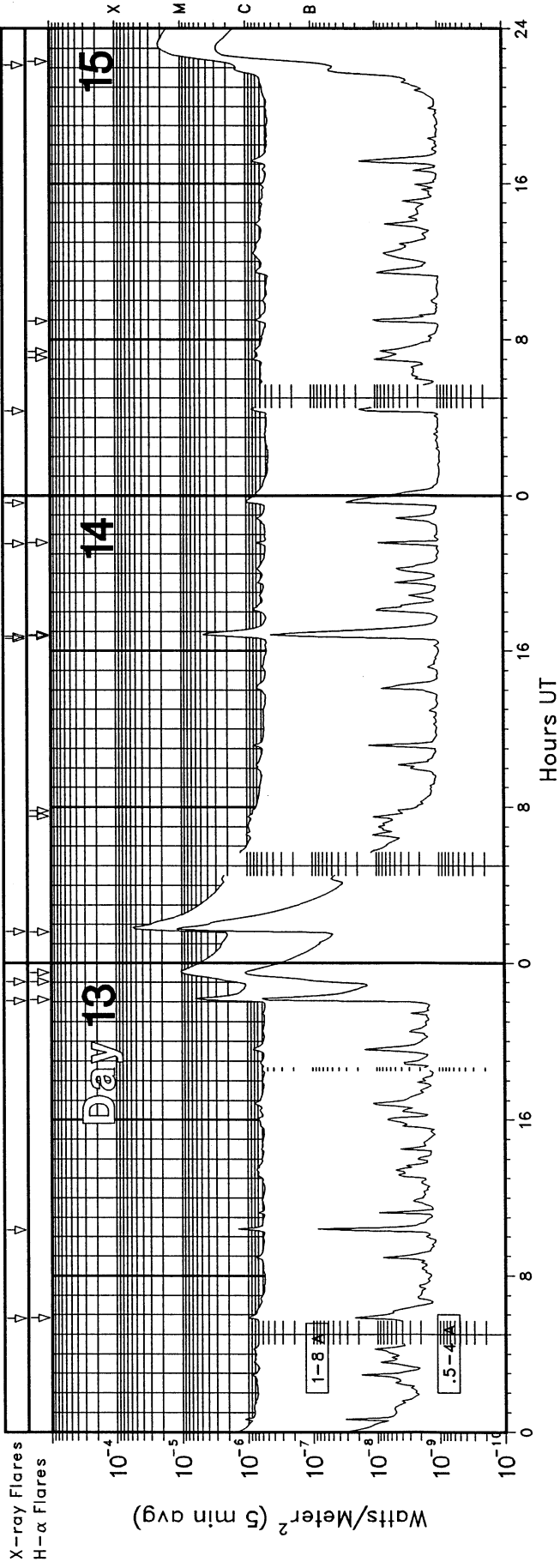
GOES X-RAY DETECTOR

March 2002



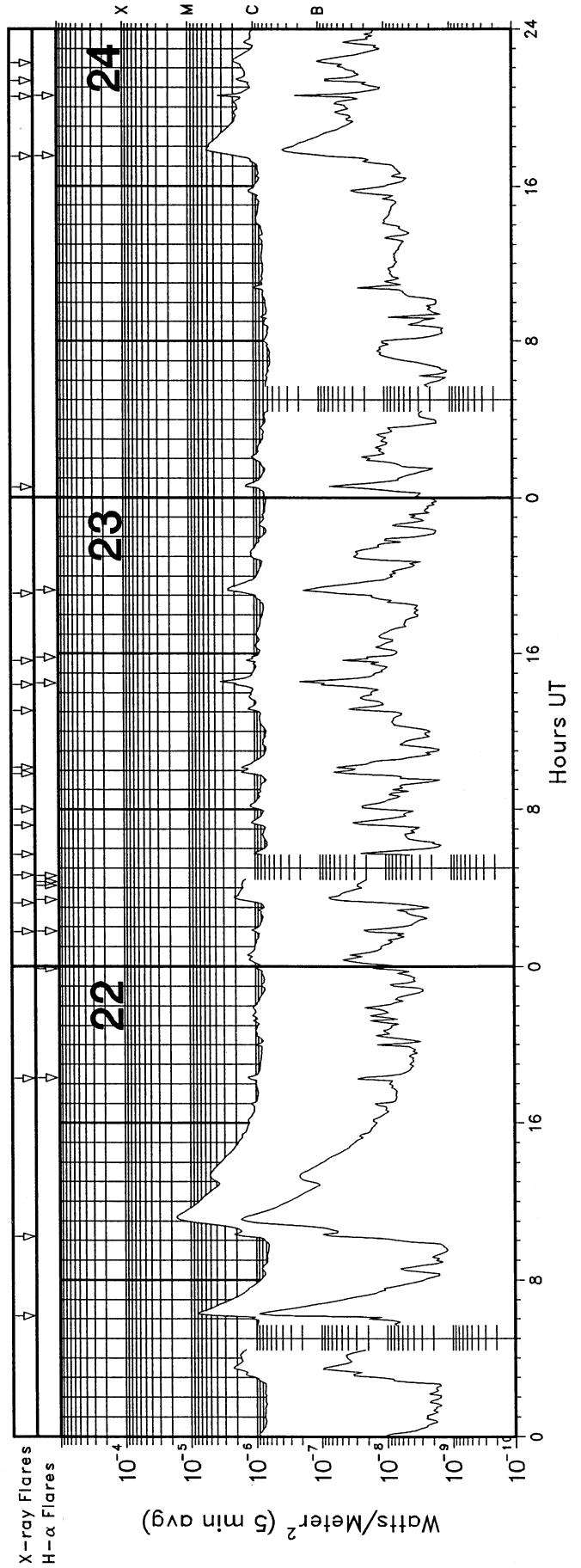
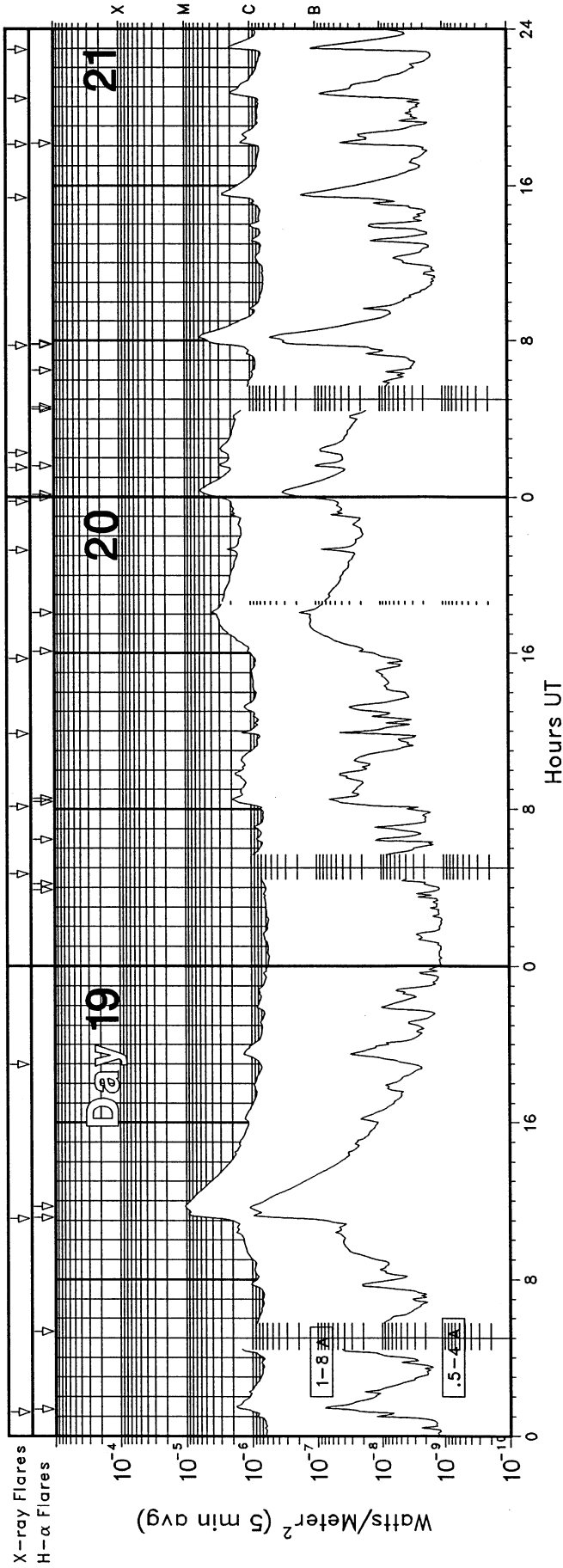
GOES X-RAY DETECTOR

March 2002

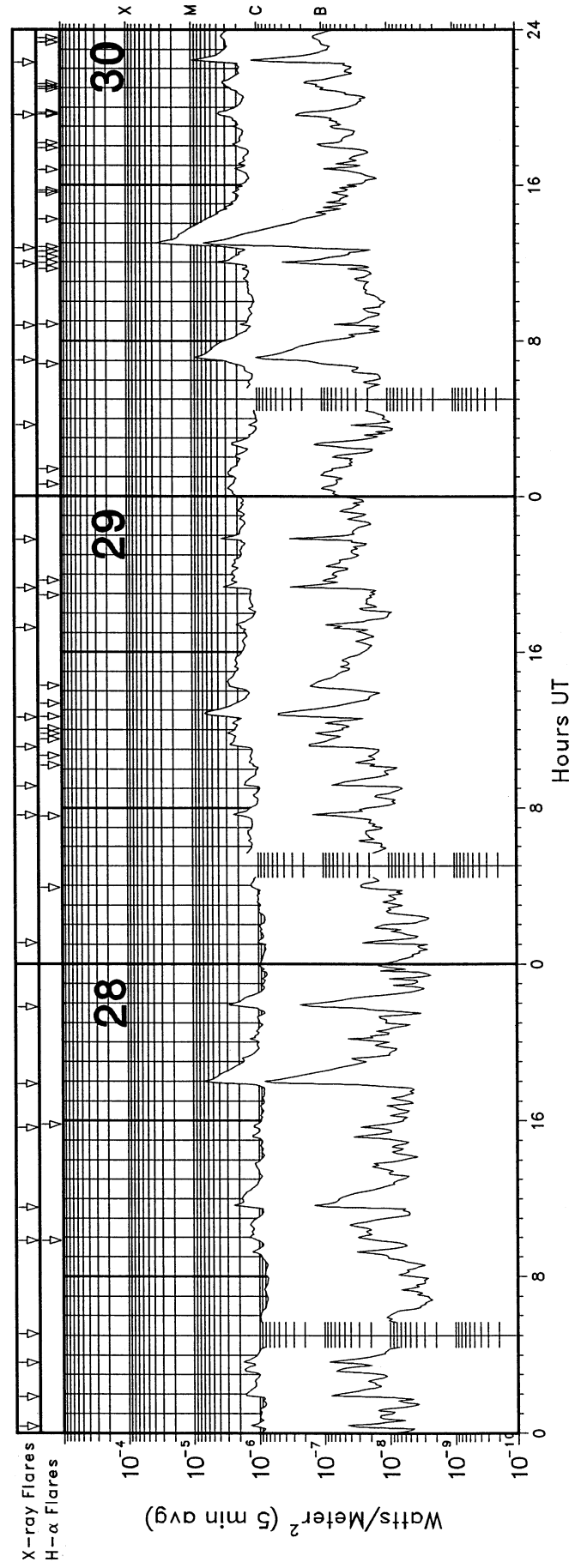
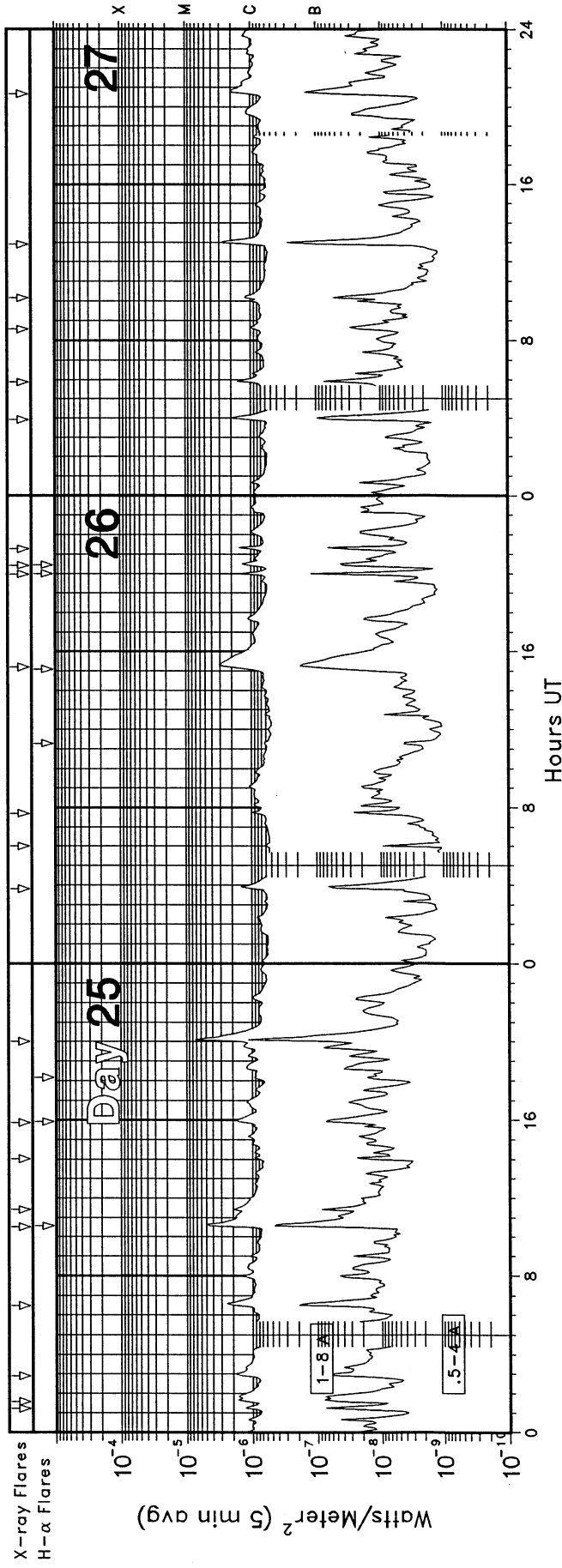


GOES X-RAY DETECTOR

March 2002

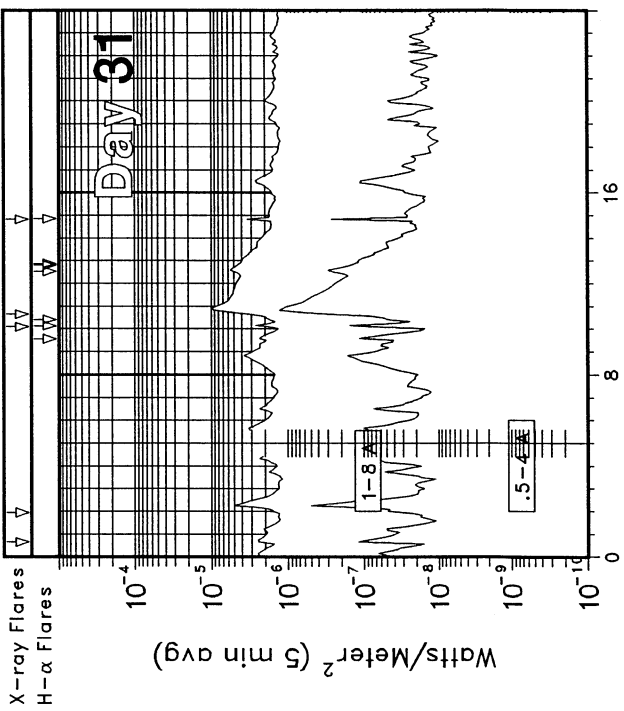


GOES X-RAY DETECTOR March 2002



GOES X-RAY DETECTOR

March 2002



GOES SOLAR X-RAY FLARES
Preliminary Listing

March 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0005	0012	0020				C9.7	9845	5.9E-03
01	0435	0439	0441				C2.1		6.9E-04
01	0526	0531	0534	S20	W09	SF	C7.2	9848	2.3E-03
01	0956	0959	1001				C3.2		8.7E-04
01	1111	1117	1127				C3.1		2.4E-03
01	1404	1409	1415				C1.8		1.1E-03
01	1426	1437	1450	S07	E65	SF	C2.8	9851	3.3E-03
01	1528	1532	1536				C2.0		8.4E-04
01	1623	1630	1639	S08	E62	SF	C5.6	9851	4.2E-03
01	1708	1714	1719				C4.7		2.4E-03
02	0755	0803	0813	N13	W21	SF	C1.3	9845	1.3E-03
02	0920	0924	0929	N24	W53	SF	C1.6	9844	6.9E-04
02	1130	1143	1151	S13	W25	SF	C1.7	9847	1.6E-03
02	1255	1259	1303				C1.1		5.2E-04
02	2010	2016	2022	N14	W23	SF	C4.4	9845	2.8E-03
03	0201	0207	0214				C3.2		1.9E-03
03	0248	0256	0306				C2.0		1.9E-03
03	1816	1833	1851				C2.3		4.3E-03
04	0604	0610	0616	N13	W45	SF	C1.4	9845	8.8E-04
04	0729	0733	0735				C3.2		6.8E-04
04	1356	1406	1411	N19	W50	SF	B9.5	9845	7.9E-04
04	2052	2055	2057				C1.4		2.9E-04
05	0531	0534	0540				B9.0		4.4E-04
06	0827	0839	0853				C1.3		1.7E-03
07	0807	0822	0838				C2.5		4.3E-03
07	1113	1122	1135				C1.8		1.9E-03
07	1338	1359	1440				C2.7		8.5E-03
07	1621	1625	1629				C1.8		7.2E-04
07	1709	1714	1718				C1.6		7.8E-04
07	1748	1755	1808				C2.5		2.4E-03
07	2046	2104	2129				C6.3		1.3E-02
07	2216	2240	2255				C7.8		1.2E-02
08	0010	0017	0020				C3.5		1.5E-03
08	0222	0231	0245				C2.4		2.8E-03
08	0902	0907	0911				C4.3		1.7E-03
08	1103	1111	1117				C2.2		1.4E-03
08	1211	1217	1222	S10	E00	SF	C1.9	9859	1.1E-03
08	1451	1456	1501				C2.0		9.6E-04
08	1647	1653	1655				C8.6		1.8E-03
08	1753	1758	1803				C4.4		1.7E-03
09	0100	0149	0203				C2.1		7.0E-03
09	0505	0520	0533	N23	E52	SF	C1.8	9864	2.8E-03
09	0904	0912	0917	S06	E82	SF	C1.8	9866	1.2E-03
09	1050	1058	1106				C2.8		2.4E-03
09	1405	1418	1424	N20	E46	1F	C3.3	9864	3.3E-03
09	1614	1619	1627	N18	E44	SF	C1.6	9864	1.2E-03
09	1831	1856	1939	S09	E79	1F	M2.6	9866	7.5E-02
09	2144	2210	2243	S09	E66	1F	M1.3	9866	3.3E-02
10	0133	0136	0138				C5.1		1.1E-03
10	0501	0505	0508	S06	E76	SF	C6.0	9866	1.5E-03
10	0938	0945	0954				C2.0		1.7E-03
10	0959	1003	1005				C2.2		6.7E-04
10	1057	1105	1108				C2.7		1.3E-03
10	1158	1202	1204				C1.6		4.9E-04
10	1225	1229	1235				C2.0		1.0E-03
10	2150	2155	2201	S08	E58	SF	C2.6	9866	1.4E-03
10	2221	2325	0029				M2.3		1.1E-01

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
11	1617	1637	1642				C1.3		1.7E-03
11	1828	1850	1859				C1.6		2.6E-03
11	2248	0109	0404				C3.0		4.6E-02
12	0224	0236	0245				C3.9		4.2E-03
12	0831	0837	0843	S13	E41	1F	C5.3	9866	2.6E-03
12	1149	1152	1155				C1.1		3.7E-04
12	1310	1315	1317	S11	E46	SF	C2.0	9866	5.6E-04
12	1632	1635	1637				C2.1		4.6E-04
12	1904	1909	1912	S12	E38	SF	C2.2	9866	7.2E-04
12	2301	2313	2324	S22	E93	SF	M1.5	9871	1.2E-02
13	0548	0551	0558	S12	E31	SF	C1.0	9866	5.7E-04
13	1021	1025	1029				C1.6		5.6E-04
13	2203	2209	2215	S10	W67	SF	C7.8	9859	3.2E-03
13	2302	2335	0000	S22	E75	SF	M1.0	9871	2.3E-02
14	0138	0150	0202	S12	E23	2B	M5.7	9866	5.3E-02
14	1638	1641	1643				B8.4		1.9E-04
14	1644	1653	1701	S23	E57	1F	C4.9	9871	3.4E-03
14	2132	2135	2137	N19	W16	SF	B8.7	9864	2.2E-04
14	2337	2344	0000				C1.0		1.2E-03
15	0420	0429	0449				B8.2		1.3E-03
15	2209	2310	0042	S08	W03	1F	M2.2	9866	1.3E-01
16	1038	1042	1047				C1.4		7.0E-04
16	1120	1124	1127	S20	E33	SF	C2.9	9871	8.5E-04
16	1316	1320	1326				C1.8		1.0E-03
16	1448	1454	1503	N18	W37	SF	C2.3	9864	1.8E-03
16	2311	2320	2325				C3.0		2.1E-03
17	0205	0223	0237	S17	E02	SF	C1.3		2.1E-03
17	0347	0352	0400				C1.9		1.3E-03
17	0452	0458	0501				C3.1	9871	1.1E-03
17	0535	0542	0550				C1.5		1.1E-03
17	1011	1019	1024				M1.3		6.4E-03
17	1121	1125	1127				C1.2		4.0E-04
17	1433	1439	1445	S09	W27	SF	C1.3	9866	7.7E-04
17	1533	1539	1557	S09	W27	SF	C1.8	9866	2.1E-03
17	1701	1705	1707	S22	E20	SF	C4.5	9871	9.7E-04
17	1710	1714	1716	N17	E53	SF	C1.1		3.7E-04
17	1924	1931	1934	S22	E16	SF	M4.0	9871	1.1E-02
17	2256	2259	2304				B9.6		4.2E-04
18	0133	0145	0150				C1.1		9.2E-04
18	0216	0231	0400				M1.0		4.5E-02
18	1140	1147	1153	S19	W28	1N	C6.2	9870	3.1E-03
18	1620	1625	1628	S19	E04	SF	C3.5	9871	9.7E-04
18	1646	1652	1658	S19	W32	SF	C3.6	9870	1.9E-03
18	1906	1918	1922	S21	E02	1F	C8.9	9871	5.0E-03
18	2147	2152	2155	S19	E01	SF	C2.1	9871	6.9E-04
19	0113	0129	0152	S11	W41	SF	C1.8	9866	3.3E-03
19	1106	1144	1231	S10	W58	1F	M1.0	9866	4.2E-02
19	1859	1934	1945				C1.3		2.8E-03
20	0441	0504	0513				C1.2		0.0E+00
20	0808	0833	0845				C1.9	9875	3.1E-03
20	1152	1156	1200				C1.5		5.8E-04
20	1544	1808	1919				C4.0	9866	2.8E-02
20	2117	2120	2124				C2.4		8.9E-04
20	2346	0023	0046	S19	W60	SF	C5.7	9870	1.5E-02
21	0131	0139	0145	S19	W52	SF	C3.0	9873	2.2E-03
21	0215	0230	0243				C2.8		4.5E-03

GOES SOLAR X-RAY FLARES
 Preliminary Listing

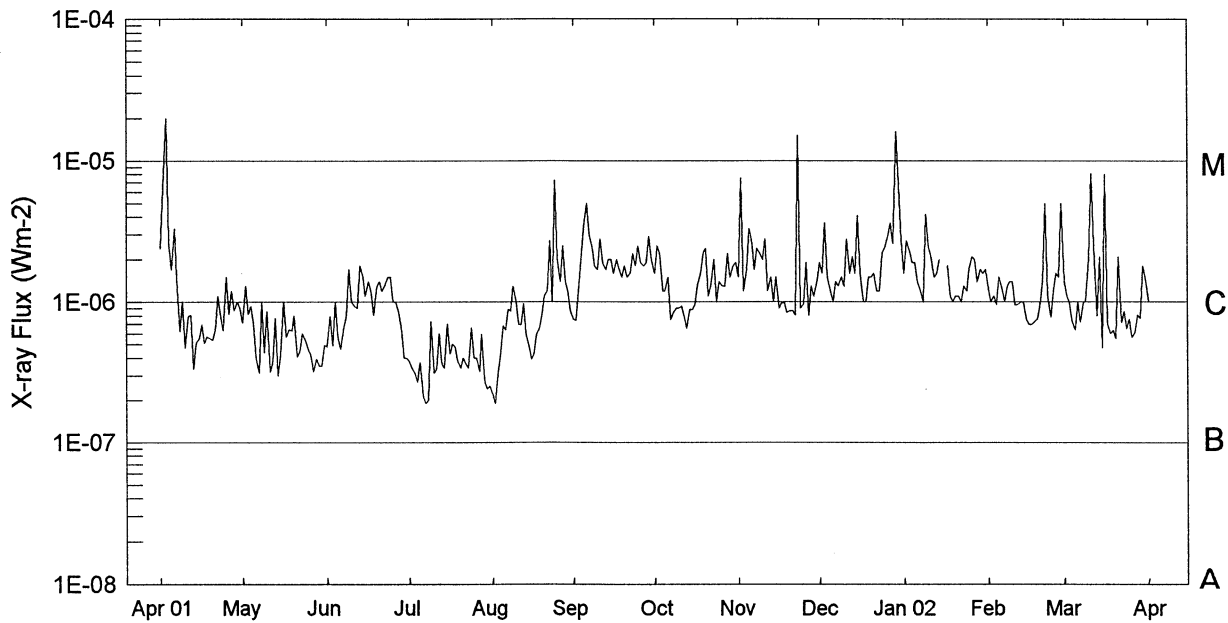
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 Mar 02

March 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
21	0745	0812	0831	S10	W76	SF	C5.9	9866	1.2E-02
21	1523	1534	1552				C2.6		3.8E-03
21	1806	1813	1824	S24	W25	SF	C1.3	9871	1.3E-03
21	2024	2045	2109				C2.0		3.8E-03
21	2256	2304	2318				C2.2		2.3E-03
22	0609	0618	0638				C8.0		1.1E-02
22	1012	1114	1152				M1.6		4.9E-02
22	1816	1819	1822	S14	E47	SF	C1.5	9876	5.0E-04
23	0146	0149	0156	S14	E45	SF	C1.1	9876	6.5E-04
23	0313	0330	0428	N08	E55	SF	C2.1	9878	7.2E-03
23	0438	0444	0451	S16	E45	SF	C3.2	9876	2.2E-03
23	0543	0546	0553				C1.0		5.7E-04
23	0711	0723	0733				C1.1		1.3E-03
23	0800	0813	0826				C1.1		1.6E-03
23	0950	0957	1009				C1.6		1.5E-03
23	1009	1012	1016				C1.7		6.4E-04
23	1304	1313	1322				C1.2		1.2E-03
23	1425	1436	1441	S15	E35	SF	C3.5	9876	2.3E-03
23	1538	1543	1545				C1.5		5.1E-04
23	1905	1918	1934	S15	E34	SF	C2.6	9876	3.5E-03
24	0032	0038	0047				C1.3		1.1E-03
24	1730	1754	1839	S15	E22	SF	C5.1	9876	1.6E-02
24	2032	2036	2038	S04	W34	SF	C4.5	9881	1.1E-03
24	2120	2125	2131				C1.8		1.1E-03
24	2215	2223	2232				C2.0		1.9E-03
25	0113	0118	0123				C1.3		7.2E-04
25	0135	0140	0144				C2.0		8.0E-04
25	0254	0300	0306				C2.0		1.2E-03
25	0629	0634	0641				C2.8		1.6E-03
25	1031	1039	1045	N09	E26	SF	C6.0	9878	3.2E-03
25	1124	1127	1131				C2.1		7.8E-04
25	1401	1405	1410				B9.9		4.8E-04
25	1552	1600	1609	N08	E21	SF	C1.8	9878	1.6E-03
25	2001	2008	2012				C9.8	9878	3.6E-03
26	0348	0355	0401				C1.5		9.5E-04
26	0600	0603	0605				B7.6		1.9E-04
26	0742	0745	0748				C1.0		3.3E-04
26	1512	1521	1533	N08	E06	SF	C3.0	9878	3.4E-03
26	1958	2002	2004	S02	W58	SF	C2.1	9881	5.0E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
26	2025	2030	2036	S01	W61	SF	C1.5	9881	8.2E-04
26	2116	2120	2123				C2.1		5.8E-04
27	0355	0400	0407				C2.3		1.2E-03
27	0552	0557	0602				C1.6		8.3E-04
27	0835	0840	0842				C1.2		4.1E-04
27	1009	1013	1019				C1.3		7.1E-04
27	1254	1302	1309				C3.0		1.8E-03
27	2040	2050	2104				C2.0		2.4E-03
28	0021	0025	0030				C1.4		6.9E-04
28	0152	0158	0221				C1.6		2.5E-03
28	0337	0342	0348				C1.8		1.1E-03
28	0505	0509	0523				C1.3		1.3E-03
28	0951	1002	1012	N17	W01	SF	C1.4	9882	1.6E-03
28	1134	1141	1213				C2.5		4.3E-03
28	1538	1543	1551	N10	E61	SF	C1.6	9885	8.9E-04
28	1752	1800	1816				C7.6		7.1E-03
28	2149	2156	2205				C2.9		2.2E-03
29	0105	0109	0111				C1.4		3.8E-04
29	0738	0742	0747	N09	W71	SF	C2.5	9880	1.2E-03
29	0908	0912	0925				C1.9		1.5E-03
29	1107	1149	1202	N10	W70	SF	C3.1	9880	7.7E-03
29	1239	1251	1304	S19	E18	SF	C6.5	9884	7.4E-03
29	1715	1718	1721				C2.2		6.7E-04
29	1917	1922	1929	N00	E68	SF	C3.7	9887	2.0E-03
29	2147	2151	2156				C4.2		1.6E-03
30	0340	0343	0345				C1.5		4.0E-04
30	0702	0711	0724				C9.1		8.9E-03
30	0848	0852	0855	N11	E39	SF	C1.9	9885	7.0E-04
30	1155	1200	1204	N10	E34	SF	C5.1	9885	1.8E-03
30	1245	1301	1314	N11	E33	1N	M3.4	9885	3.0E-02
30	1936	1939	1941	N11	E32	SF	C4.5	9885	1.2E-03
30	2219	2226	2234				M1.0		6.3E-03
31	0039	0043	0053				C2.8		2.0E-03
31	0157	0217	0228				C5.7		5.5E-03
31	1005	1010	1015	N10	E23	SF	C2.9	9885	1.3E-03
31	1039	1055	1115	N10	E21	1F	M1.0	9885	1.6E-02
31	1449	1453	1455	N12	E32	SF	C5.2	9886	1.1E-03

Preliminary GOES Satellite Daily X-Ray Background Apr 2001 - Mar 2002



Day	Apr 02	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02	Feb	Mar
1	C2.4	B7.1	B4.8	B3.8	B2.2	B7.5	C1.6	C1.5	C1.9	C1.6	C1.3	C1.4
2	C6.5	C1.3	B7.9	B3.4	B1.9	B7.4	C2.5	C7.5	C1.6	C2.7	C1.0	C1.1
3	M2.0	B8.2	B4.9	B3.1	B3.0	C1.2	C2.2	C1.2	C3.6	C2.3	C1.1	B9.8
4	C2.6	B9.3	C1.0	B2.7	B4.1	C2.0	C1.2	C1.7	C1.5	C1.9	B9.6	B7.3
5	C1.7	B7.1	B5.6	B3.7	B6.8	C3.7	C1.2	C3.3	C1.2	C1.9	C1.5	B6.4
6	C3.3	B4.0	B4.6	B2.1	B6.4	C5.0	C1.5	C2.7	C1.0	C1.4	C1.3	B9.9
7	C1.5	B3.1	B6.6	B1.9	B8.9	C3.0	B7.5	C1.7	C1.4	C1.2	C1.0	B7.2
8	B6.2	C1.0	B7.9	B2.0	B8.7	C2.4	B8.4	C2.4	C1.3	C1.0	C1.3	C1.0
9	C1.0	B4.4	C1.7	B7.3	C1.3	C1.8	B9.1	C2.2	C1.5	C4.2	C1.4	C1.0
10	B4.7	B8.6	C1.0	B3.1	C1.0	C1.7	B9.0	C2.0	C1.3	C2.5	C1.4	C2.0
11	B7.9	B3.2	B9.3	B3.3	B6.9	C2.8	B9.3	C2.8	C2.8	C2.1	B9.5	C8.1
12	B8.1	B3.7	B9.0	B6.0	B6.9	C1.9	B8.0	C1.2	C1.6	C1.5	B9.6	C2.5
13	B3.3	B7.7	C1.8	B3.6	B9.7	C1.7	B6.5	C1.5	C2.1	C1.6	C1.0	B8.0
14	B5.1	B3.0	C1.5	B3.4	B5.9	C2.0	B8.9	C1.0	C1.6	C2.0	C1.0	C2.1
15	B5.5	B4.2	C1.1	B7.0	B4.8	C2.0	B8.9	C1.5	C4.1	*	B7.4	B4.7
16	B6.9	C1.0	C1.4	B4.3	B3.9	C1.6	B9.5	B9.1	C1.6	*	B6.9	C8.0
17	B5.1	B5.7	C1.2	B5.0	B4.3	C2.0	C1.3	B9.8	C1.0	C1.8	B6.9	B7.0
18	B5.7	B6.4	B8.1	B4.8	B5.9	C1.7	C1.6	B9.9	C1.0	C1.1	B7.2	B6.0
19	B5.5	B6.3	C1.3	B3.8	B6.5	C1.5	C2.2	B8.4	C1.5	C1.0	B7.6	B6.3
20	B5.4	B8.0	C1.4	B3.4	B8.1	C1.8	C2.4	B8.7	C1.5	C1.1	B9.5	B5.5
21	B6.4	B4.1	C1.2	B4.0	C1.1	C1.5	C1.1	B8.7	C1.6	C1.1	C1.4	C2.1
22	C1.1	B4.5	C1.3	B3.6	C1.2	C1.6	C1.3	B8.1	C1.2	C1.0	C5.0	B7.1
23	B8.1	B6.0	C1.5	B3.4	C2.7	C2.2	C2.0	M1.5	C1.2	C1.3	C1.1	B8.6
24	B6.3	B5.3	C1.5	B6.6	C1.0	C1.8	C1.0	B9.0	C2.2	C1.2	B7.8	B6.5
25	C1.5	B4.6	C1.0	B4.0	C7.2	C2.5	C1.4	B9.6	C2.4	C1.7	C1.2	B7.5
26	B8.2	B4.2	C1.0	B4.0	C2.0	C1.9	C1.3	C1.9	C2.9	C2.1	C1.6	B5.6
27	C1.2	B3.2	B8.8	B3.2	C1.4	C1.8	C1.3	B8.1	C3.6	C2.0	C1.5	B6.1
28	B8.8	B3.9	B6.5	B5.9	C2.5	C1.9	C2.2	C1.3	C2.6	C1.4	C5.0	B8.1
29	C1.0	B3.5	B4.0	B2.7	C1.4	C2.9	C1.5	C1.1	M1.6	C1.7		B7.7
30	B9.0	B3.5	B4.0	B2.4	C1.2	C2.0	C1.8	C1.4	C8.4	C1.6		C1.8
31		B4.9		B2.5	B8.7		C1.9		C2.7	C1.7		C1.4

NOTE: * = Data not available.

ACTIVE PROMINENCES AND FILAMENTS

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Mar 02

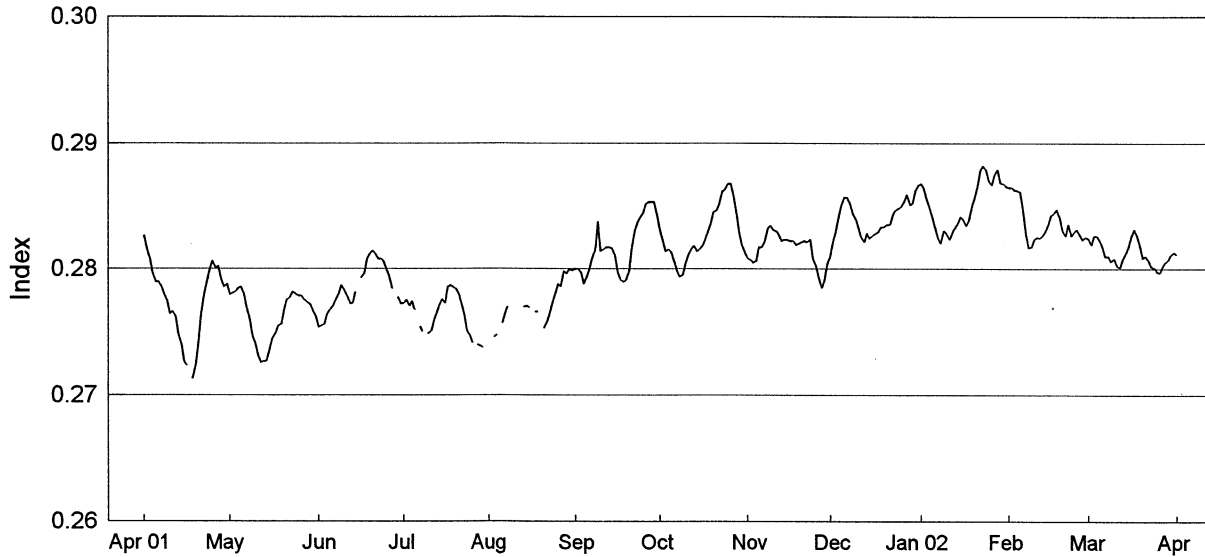
MARCH 2002

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
01	DSF	0959U	0140U	S35	W17	02	28.0		06	0	0	E	LEAR		
01	DSF	1754U	1139U	S34	W25	02	27.8		07	0	0	E	RAMY		
01	DSF	2345U	1436U	N37	W07	03	1.4			0	0	E	HOLL		
02	EPL	1417E	0000	S43	E90	03	10.0	3		1	3	E	RAMY		
02	EPL	1421	1521D	S42	E90	03	10.0	3		0	0	E	SVTO		
02	EPL	1430E	0000	S43	E90	03	10.0	3		1	3	E	HOLL		
05	DSF	1037U	2302U	S46	W15	03	4.2		14	0	0	E	LEAR		
05	DSF	1559U	1043U	S41	W38	03	2.5		14	0	0	E	SVTO		
09	DSF	1845U	1350U	N26	E50	03	13.7		11	0	0	E	RAMY		
10	APR	0133	1008	S10	E90	03	16.8	1		6	7	E	LEAR	9866	
11	LPS	0100	1005	S11	E90	03	17.8			9	9	E	LEAR		
13	DSF	0042U	1442U	N15	W51	03	9.2			0	0	E	HOLL		
13	DSF	0042U	1442U	N15	W51	03	9.2		08	0	0	E	HOLL		
13	DSF	0042U	1442U	S26	E67	03	18.2			0	0	E	HOLL		
13	DSF	0042U	1442U	S26	E67	03	18.2		13	0	0	E	HOLL		
14	DSF	0032U	1407U	S26	W34	03	11.4		12	0	0	E	HOLL		
14	DSF	0032U	1407U	S28	E09	03	14.7		07	0	0	E	HOLL		
14	DSF	0939U	2324U	N07	W35	03	11.8		06	0	0	E	LEAR		
14	DSF	1525U	1145U	N08	W36	03	11.9		05	0	0	E	SVTO		
15	DSF	1546U	1333U	N15	E14	03	16.7		16	0	0	E	SVTO		
15	DSF	2001U	1135U	N11	W02	03	15.7		11	0	0	E	RAMY	9865	
16	DSF	0024U	1434U	N10	W05	03	15.6		19	0	0	E	HOLL		
16	DSF	1333U	1243U	S24	W02	03	16.4		09	0	0	E	SVTO		
16	DSF	2055U	1145U	S26	W07	03	16.3		11	0	0	E	RAMY		
16	DSF	2341U	1648U	S28	W03	03	16.7		06	0	0	E	HOLL		
18	DSF	2119U	1144U	N27	W46	03	15.3		21	0	0	E	RAMY		
21	BSL	0407	0552	S14	W90	03	14.4			9	9	E	LEAR	9866	
21	BSL	0748	0955	S14	W90	03	14.5			9	9	E	LEAR	9866	Flare Associated
21	BSL	0803	0959	S13	W90	03	14.5			9	9	E	SVTO	9866	Flare Associated
22	DSF	0853U	2315U	S33	W50	03	18.4		05	0	0	E	LEAR		
26	DSF	0921U	0645U	N41	W25	03	24.3		20	0	0	E	LEAR		
29	DSF	1607U	0721U	S31	W12	03	28.7		07	0	0	E	SVTO		
29	DSF	2059U	1127U	S29	W13	03	28.8		08	0	0	E	RAMY		

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

Apr 2001 - Mar 2002

Version 9.1



Day	Apr 01	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02	Feb	Mar
1	0.2826	0.2780	0.2754	0.2773	0.2738	0.2800	0.2831	0.2809	0.2821	0.2868	0.2865	0.2824
2	0.2816	0.2781	0.2755	0.2775	---	0.2800	0.2822	0.2807	0.2828	0.2865	0.2865	0.2819
3	0.2808	0.2782	0.2756	0.2771	0.2746	0.2797	0.2814	0.2805	0.2841	0.2855	0.2863	0.2826
4	0.2797	0.2785	0.2764	0.2774	0.2748	0.2788	0.2815	0.2806	0.2850	0.2849	0.2863	0.2826
5	0.2790	0.2786	0.2767	0.2767	---	0.2794	0.2813	0.2817	0.2857	0.2841	0.2861	0.2822
6	0.2790	0.2780	0.2770	---	0.2757	0.2800	0.2805	0.2817	0.2857	0.2833	0.2849	0.2817
7	0.2786	0.2769	0.2775	0.2754	0.2764	0.2808	0.2798	0.2821	0.2851	0.2824	0.2828	0.2810
8	0.2780	0.2760	0.2780	0.2750	0.2770	0.2815	0.2794	0.2832	0.2844	0.2820	0.2817	0.2810
9	0.2774	0.2747	0.2787	---	---	0.2837	0.2795	0.2834	0.2839	0.2830	0.2817	0.2806
10	0.2764	0.2740	0.2783	0.2749	---	0.2814	0.2804	0.2831	0.2832	0.2828	0.2823	0.2808
11	0.2766	0.2731	0.2779	0.2751	---	0.2815	0.2810	0.2830	0.2825	0.2823	0.2825	0.2803
12	0.2762	0.2726	0.2773	0.2759	---	0.2817	0.2815	0.2827	0.2821	0.2828	0.2824	0.2801
13	0.2748	0.2727	0.2773	0.2766	---	0.2817	0.2818	0.2822	0.2828	0.2832	0.2826	0.2807
14	0.2740	0.2727	0.2782	0.2772	0.2770	0.2816	0.2814	0.2823	0.2824	0.2836	0.2830	0.2812
15	0.2726	0.2737	---	0.2776	0.2771	0.2810	0.2815	0.2823	0.2826	0.2841	0.2835	0.2817
16	0.2723	0.2745	0.2793	0.2773	0.2769	0.2797	0.2818	0.2822	0.2828	0.2839	0.2842	0.2826
17	---	0.2749	0.2796	0.2786	---	0.2792	0.2823	0.2822	0.2829	0.2834	0.2844	0.2831
18	0.2713	0.2755	0.2807	0.2787	0.2766	0.2790	0.2830	0.2819	0.2833	0.2838	0.2847	0.2827
19	0.2724	0.2756	0.2812	0.2786	0.2766	0.2791	0.2836	0.2820	0.2833	0.2850	0.2840	0.2818
20	0.2741	0.2767	0.2814	0.2784	---	0.2798	0.2845	0.2821	0.2835	0.2856	0.2830	0.2809
21	0.2763	0.2775	0.2812	0.2780	0.2753	0.2816	0.2846	0.2822	0.2835	0.2867	0.2826	0.2810
22	0.2780	0.2777	0.2808	0.2771	0.2758	0.2830	0.2851	0.2821	0.2842	0.2879	0.2835	0.2807
23	0.2789	0.2782	0.2808	0.2763	0.2765	0.2836	0.2862	0.2823	0.2846	0.2882	0.2826	0.2802
24	0.2800	0.2781	0.2806	0.2751	0.2773	0.2841	0.2863	0.2808	0.2848	0.2879	0.2829	0.2801
25	0.2806	0.2779	0.2799	0.2747	0.2781	0.2844	0.2868	0.2802	0.2849	0.2870	0.2831	0.2798
26	0.2801	0.2779	0.2794	0.2741	0.2788	0.2851	0.2868	0.2793	0.2853	0.2867	0.2827	0.2797
27	0.2802	0.2776	0.2784	---	0.2786	0.2853	0.2859	0.2785	0.2859	0.2875	0.2823	0.2802
28	0.2791	0.2774	---	0.2740	0.2798	0.2853	0.2844	0.2791	0.2851	0.2879	0.2825	0.2805
29	0.2786	0.2772	0.2777	0.2739	0.2796	0.2853	0.2829	0.2803	0.2852	0.2869		0.2807
30	0.2788	0.2767	0.2773	0.2738	0.2800	0.2842	0.2819	0.2810	0.2861	0.2868		0.2811
31		0.2762		---	0.2799		0.2813		0.2867	0.2866		0.2813
Mean	0.2775	0.2763	0.2785	0.2764	0.2771	0.2817	0.2827	0.2816	0.2841	0.2851	0.2836	0.2812

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