

OCTOBER 2002 NUMBER 698 - Part II



Solar-Geophysical Data comprehensive reports

Data for April 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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NATIONAL ENVIRONMENTAL SATELLITE,
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Data for April 2002 and Late Data

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Number 698

(Issued in Two Parts)

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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	FEB 02	MAR	APR	MAY	JUN	JUL	AUG	SEP
A. SOLAR AND INTERPLANETARY									
A.1	Sunspot Drawings	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
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A.2c	American Sunspot Numbers	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27	698A 27
A.3a	Mt. Wilson Magnetograms	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
A.3b	Sunspot Mag Class and Regions	692A 86	693A 91	694A 91	695A 86	696A100	697A 98	698A 91	
A.3c	Kitt Peak Magnetograms	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
A.3d	Mean Solar Magnetic Field (Stanford)	691A 41	692A 39	693A 41	694A 41	695A 35	696A 43	697A 49	698A 41
A.3e	Stanford Magnetograms	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
A.4	H-alpha Filtergrams	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
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	692A 44	693A 44	694A 46	695A 38	696A 48	697A 52	698A 44	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps								
A.6f	Active Prominences and Filaments	696B 41	697B 41	698B 48					
A.6g	Sac Peak Coronal Line Synoptic Maps	692A 46	693A 46	694A 48	695A 40	696A 50	697A 54	698A 46	
A.6h	Photometric White Light (San Fernando)	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	692A 50	693A 50	694A 52	695A 44	696A 60	697A 58	698A 50	
A.7j	Coronal Hole Daily Maps (NSO/KP)	692A 78	693A 81	694A 82	695A 75	696A 90	697A 89	698A 81	
A.7k	Coronal Index (Slovak Academy)	1939-1996 in 644B 28							
A.7m	Coronal Mass Ejections (CSPSW)								
A.8aa	2800 MHz- Solar Flux (Penticton)	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27	698A 27
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27	698A 27
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27	697A 27	698A 27
A.10g	Nancay Radioheliograph - 164&327 MHz	692A137	693A137	694A147	695A143	696A152	697A153	698A151	
A.10h	Nobeyama Radioheliograph Maps-17 GHz	692A 81	693A 85	694A 86	695A 80	696A 95	697A 92	698A 85	
A.11g	Solar X-ray GOES (graphs/event table)	696B 33	697B 32	698B 40					
A.11k	Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
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	695B 40	696B 42	697B 42	698B 49				
A.12g	Solar Particles (GOES-7)	691A 4	692A 4	693A 4	694A 4	695A 4	696A 4	697A 4	698A 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)								
A.16c	ERBS, NOAA-9 & -10 Solar Irradiance	ERBS Oct 84-Jun 00 in 671B 36							
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.1d	Flare Patrol Observations	696B 16	697B 12	698B 16					
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 "692A 50" under Feb 02, for example, means that the sunspot drawings for Feb 02 appear in SOLAR-GEOPHYSICAL DATA No. 692, 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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Apr 02

H α SOLAR FLARES

APRIL 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)		
0001	LEAR	01	0237	0239	0242	N14	E16	9885	04	2.3	5	SF		3	E		14		F	
0002		01	0810	0810	0814	N00	E32	9887	04	3.7	4	SF					15		F	
	LEAR	01	0810	0810	0814	N00	E32	9887	04	3.7	4	SF		3	E		15		F	
	SVTO	01	0810	0810	0814	N00	E31	9887	04	3.6	4	SF		3	E		15			
	KANZ	01	0810	0810	0814	N00	E32	9887	04	3.7	4	SF		2	E					
0003	KANZ	01	1105	1106	1109	N12	W01	9885	04	1.4	4	SF		2	E					
0004	KANZ	01	1138	1139	1140	N10	E04	9885	04	1.8	2	SF		2	E					
0005		01	13131	1314	1317	N02	E29	9887	04	3.7	4	SF					14			
	SVTO	01	1313	1314	1317	N01	E29	9887	04	3.7	4	SF		3	E		14			
	KANZ	01	1314	1314	1317	N02	E29	9887	04	3.7	3	SF		2	E					
0006		01	13589	1408	1412	N01	E29	9887	04	3.7	14	SF					20			
	KANZ	01	1358	1408	1412	N01	E30	9887	04	3.8	14	SF		2	E					
	SVTO	01	1359	1408	1413	N01	E29	9887	04	3.7	14	SF		3	E		22			
	RAMY	01	1407	1408	1412	N00	E29	9887	04	3.7	5	SF		3	E		17			
0007		01	1420	1424	1432	S00	E28	9887	04	3.7	12	SF					15		F	
	KANZ	01	1420	1424	1430	N00	E28	9887	04	3.7	10	SF		2	E					
	SVTO	01	1420	1424	1433	S01	E28	9887	04	3.7	13	SF		3	E		15		F	
0008		01	1444	1445	1454	N11	E07	9885	04	2.1	10	SF					44		FH	
	KANZ	01	1444	1445	1453	N12	E07	9885	04	2.1	9	SF		2	E					
	SVTO	01	1444	1445	1454	N11	E07	9885	04	2.1	10	SF		3	E		43		FH	
	RAMY	01	1444	1445	1454	N11	E08	9885	04	2.2	10	SF		3	E		44		FH	
0009		01	15311	15331	1549	N10	E21	9886	04	3.2	18	SF					34		F	
	KANZ	01	1531	1533	1548	N10	E22	9886	04	3.3	17	SF		2	E					
	SVTO	01	1531	1533	1552	N11	E20	9886	04	3.1	21	SF		3	E		38		F	
	RAMY	01	1532	1534	1547	N10	E21	9886	04	3.2	15	SF		3	E		30		F	
0010	RAMY	01	1713	1713	1718	S01	E28	9887	04	3.8	5	SF		3	E		14			
0011	RAMY	01	1720	1722	1730	S01	E28	9887	04	3.8	10	SF		3	E		12		F	
		01	1913		1929	No Flare Patrol														
		01	1953		2352	No Flare Patrol														
0012	MITK	02	0049	0050	0052	N03	E22	9887	04	3.7	3	SN			C	0050	81	0.9	H	
		02	0305		0317	No Flare Patrol														
		02	0325		0330	No Flare Patrol														
0013	LEAR	02	0352	0355	0358	N03	E20	9887	04	3.6	6	SF		2	E		19		F	
0014	LEAR	02	0402	0406	0413	N03	E21	9887	04	3.7	11	SF		2	E		28		F	
		02	0422		0454	No Flare Patrol														
0015	SVTO	02	1032	1036	1049	N01	E19	9887	04	3.8	17	SF		3	E		28		F	
0016		02	13171	13211	1347	S01	E18	9887	04	3.9	30	SF					67		FH	
	SVTO	02	1317	1321	1345	S01	E19	9887	04	4.0	28	SF		3	E		75		F	
	KANZ	02	1317	1321	1351	N00	E18	9887	04	3.9	34	SF		2	E					
	RAMY	02	1318	1322	1346	S01	E18	9887	04	3.9	28	SF		3	E		59		FH	
0017		02	1407	14071	1425	N02	E17	9887	04	3.8	18	SF					40		F	
	RAMY	02	1407	1407	1425	N01	E16	9887	04	3.8	18	SF		3	E		35		F	
	SVTO	02	1407	1407	1428	N02	E17	9887	04	3.8	21	SF		3	E		45		F	
	KANZ	02	1407	1408	1423	N02	E17	9887	04	3.8	16	SF		2	E					
0018		02	1444	14441	1450	N02	E16	9887	04	3.8	6	SF					17		F	
	SVTO	02	1444	1444	1450	N02	E17	9887	04	3.9	6	SF		3	E		17		F	
	KANZ	02	1444	1445	1450	N02	E16	9887	04	3.8	6	SF		2	E					

H α SOLAR FLARES

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Apr 02

APRIL 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)	
0019	02	1544	1545	1551	N02	E16	9887	04	3.8	7	SF						20		FH
	SVTO	02	1544	1545	1549	N02	E16	9887	04	3.8	5	SF		3	E		18		F
	RAMY	02	1544	1545	1552	N01	E16	9887	04	3.8	8	SF		3	E		23		H
	KANZ	02	1544	1545	1552	N02	E16	9887	04	3.8	8	SF		2	E				
0020	02	16281	16291	1632	N02	E16	9887	04	3.9	4	SF						23		F
	KANZ	02	1628	1629	1635D	N02	E15	9887	04	3.8	7D	SF		2	E				
	RAMY	02	1629	1630	1632	N01	E16	9887	04	3.9	3	SF		3	E		23		F
0021	RAMY	02	1659	1701	1710	N01	E15	9887	04	3.8	11	SF		3	E		58		F
	02	1857		2331	No Flare Patrol														
0022	LEAR	03	0531	0533	0542	N01	E10	9887	04	4.0	11	SF		3	E		48		F
	03	0836		1057	No Flare Patrol														
0023	RAMY	03	1133	1134	1137	S11	E10	9888	04	4.2	4	SF		3	E		17		F
	03	1647		1725	No Flare Patrol														
	03	1734		2254	No Flare Patrol														
0024	LEAR	04	0336	0337	0344	N18	E77	9893	04	10.0	8	SF		3	E		37		H
0025	LEAR	04	0345	0350	0353	N18	E77	9893	04	10.0	8	SF		3	E		17		
0026	LEAR	04	0427	0430	0442	N18	E77	9893	04	10.0	15	SF		3	E		43		F
0027	04	06522	0655	0659	S10	W02	9888	04	4.1	7	SN						64	0.6	DF
	LEAR	04	0652	0655	0702	S10	W02	9888	04	4.1	10	SF		3	E		67		F
	MITK	04	0654	0655	0656	S10	W01	9888	04	4.2	2	SN			C	0655	61	0.6	D
	04	1053		1109	No Flare Patrol														
	04	1111		1117	No Flare Patrol														
0028	KANZ	04	1435	1436	1440D	N14	W26	9886	04	2.6	5D	SF		2	E				
0029	RAMY	04	1435	1437	1447	N14	W25	9885	04	2.7	12	SF		3	E		95		F
	04	1635		1645	No Flare Patrol														
	04	1734		1804	No Flare Patrol														
	04	1812		2045	No Flare Patrol														
0030	HOLL	04	2156	2158	2200	N18	E69	9893	04	10.2	4	SF		3	E		19		
0031	HOLL	04	2252	2255	2303	N08	E75	9895	04	10.6	11	SF		3	E		37		
0032	HOLL	04	2304	2305	2308	N08	E73	9895	04	10.4	4	SF		3	E		26		
0033	LEAR	05	0414	0418	0425	N14	W40	9885	04	2.1	11	SF		3	E		44		F
0034	KANZ	05	0759	0801	0803	N01	W25	9887	04	3.5	4	SF		2	E				
0035	KANZ	05	1037	1038	1040	N00	W25	9887	04	3.6	3	SF		2	E				
	05	1102		1106	No Flare Patrol														
	05	1108		1131	No Flare Patrol														
	05	1414		1430	No Flare Patrol														
0036	HOLL	05	1443	1447	1454	N00	W24	9887	04	3.8	11	SF		3	E		26		
0037	HOLL	05	1447	1451	1455	N14	W36	9885	04	2.9	8	SF		3	E		22		F
0038	05	15181	15181	1534	N18	E60	9893	04	10.2	16	SF						21		
	HOLL	05	1518	1518	1543	N18	E60	9893	04	10.2	25	SF		3	E		26		
	RAMY	05	1519	1519	1524	N17	E59	9893	04	10.1	5	SF		3	E		16		
0039	RAMY	05	1718	1720	1723	N15	W36	9886	04	3.0	5	SF		3	E		21		F

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Apr 02

H α SOLAR FLARES

APRIL 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	Obs Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0040	RAMY	05	1755	1800	1807	S14	W17	9888	04	4.5	12	SF		3	E		17		F
0041	HOLL	05	1949	1951	2012	N13	W38	9885	04	2.9	23	SF		3	E		83		F
0042	HOLL	05	2017	2018	2021	N13	W38	9885	04	3.0	4	SF		3	E		13		
0043	HOLL	05	1953	1953	2005	N18	E58	9893	04	10.2	12	SF		3	E		10		F
		05	2104		2145	No Flare Patrol													
0044	HOLL	05	2242	2242	2249	N13	W39	9885	04	3.0	7	SF		3	E		39		
		05	2324		2327	No Flare Patrol													
0045	LEAR	06	0139E	0139U	0146	S17	E48		04	9.7	7D	SF		2	E		16		
0046	LEAR	06	0312	0318	0329	N18	E55	9893	04	10.3	17	SF		2	E		24		F
0047	LEAR	06	0603	0610	0642	N18	E52	9893	04	10.2	39	SF		4	E		58		F
0048	LEAR	06	0612	0616	0652	S20	E85	9898	04	12.7	40	1F		4	E		114		EF
0049	SVTO	06	0614	0618	0631	S20	E74	9898	04	11.9	17	SF		3	E		17		
0050		06	14061	14061	1410	N00	W36	9887	04	3.9	4	SF					31		F
	HOLL	06	1406	1406	1410	N01	W36	9887	04	3.9	4	SF		3	E		36		F
	SVTO	06	1407	1407	1411	N00	W37	9887	04	3.8	4	SF		3	E		26		
0051	HOLL	06	1614	1616	1624	N18	E46	9893	04	10.2	10	SF		3	E		13		F
		06	1900		1906	No Flare Patrol													
		06	1919		1923	No Flare Patrol													
0052	HOLL	06	1947	1947	2004D	N17	E45	9893	04	10.2	17D	SF		3	E		22		
0053	RAMY	06	1955	1956	1959	N15	W64	9885	04	2.0	4	SF		3	E		33		
		06	2010		2020	No Flare Patrol													
		06	2108		2118	No Flare Patrol													
		06	2122		2257	No Flare Patrol													
0054	LEAR	07	0225	0228	0244	N19	E79	9899	04	13.1	19	1F		3	E		121		
0055	LEAR	07	0231	0243	0308	N15	E32	9893	04	9.5	37	SF		3	E		82		
0056	LEAR	07	0444	0444	0455	N18	E41	9893	04	10.3	11	SF		3	E		13		H
0057	LEAR	07	0521	0522	0527	N18	E37	9893	04	10.0	6	SF		3	E		43		F
0058	KANZ	07	0751	0751	0755	S19	E14	9904	04	8.4	4	SF		2	E				
0059		07	08162	08215	0842	N18	E33	9893	04	9.8	26	SF					52		F
	LEAR	07	0816	0826	0842	N18	E32	9893	04	9.8	26	SF		2	E		52		F
	KANZ	07	0817	0821	0851	N18	E33	9893	04	9.8	34	SF		2	E				
	SVTO	07	0818	0821	0833	N17	E34	9893	04	9.9	15	SF		3	E		53		F
0060		07	1428	14245	1439	S19	E55	9898	04	11.8	11	SF					35		F
	SVTO	07	1421E	1424	1438	S20	E56	9898	04	11.9	17D	SF		3	E		21		F
	HOLL	07	1428	1429	1440	S18	E54	9898	04	11.7	12	SF		3	E		49		F
0061	HOLL	07	1509	1511	1528	N20	E41	9901	04	10.8	19	SF		3	E		21		
0062	SVTO	07	1522	1522	1528	N18	E42	9901	04	10.8	6	SF		3	E		10		
		07	1618		1631	No Flare Patrol													
		07	1641		1748	No Flare Patrol													
		07	1756		1832	No Flare Patrol													
		07	1919		1925	No Flare Patrol													
		07	2349		2400	No Flare Patrol													
		08	0000		0007	No Flare Patrol													

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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	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0063	LEAR	08	0300	0304	0320	N20	E56	9899	04	12.4	20	SF		3	E		92		EF	
0064	LEAR	08	0329	0331	0334	N19	E34	9901	04	10.7	5	SF		3	E		19		F	
0065	LEAR	08	0346	0350	0405	N20	E33	9901	04	10.7	19	SF		3	E		23		F	
0066	LEAR	08	0523	0523	0534	S20	E49	9898	04	12.0	11	SF		3	E		22			
0067	SVTO	08	1120	1122	1130	N18	E54	9899	04	12.6	10	SF		3	E		15		F	
0068	SVTO	08	1202	1203	1207	N02	W63	9887	04	3.8	5	SF		3	E		16			
0069		08	1344	13452	1359	S13	W54	9888	04	4.5	15	SF					14		F	
	RAMY	08	1344	1345	1357	S12	W56	9888	04	4.3	13	SF		3	E		13			
	HOLL	08	1344	1347	1401	S14	W53	9888	04	4.6	17	SF		3	E		16		F	
0070	HOLL	08	1724	1727	1735	S18	E41	9898	04	11.8	11	SF		3	E		31		FU	
0071	HOLL	08	2041	2044	2103	N21	E49	9899	04	12.6	22	SF		3	E		90		F	
0072	HOLL	08	2320	2323	2331	N20	E46	9899	04	12.5	11	SF		3	E		17			
0073		09	00392	0040	0104	N19	E46	9899	04	12.5	25	2N					254		FH	
	LEAR	09	0039	0040	0104	N19	E46	9899	04	12.5	25	2B		3	E		341		FH	
	HOLL	09	0041	0044U	0105D	N19	E45	9899	04	12.5	24D	1F		3	E		167			
0074	LEAR	09	0536	0548	0624	N20	E50	9899	04	13.0	48	1F		3	E		179		FH	
0075	LEAR	09	0602	0607	0620	N17	E70	9903	04	14.6	18	1F		3	E		205		F	
		09	0959		1310	No Flare Patrol														
0076	HOLL	09	1731	1734	1742	S16	W04	9904	04	9.4	11	SF		3	E		14		F	
0077	HOLL	09	1906	1921	1939	S15	W05	9904	04	9.4	33	SF		3	E		36		F	
		09	2308		2310	No Flare Patrol														
0078	LEAR	10	0044	0059	0117	N19	E33	9899	04	12.5	33	SF		3	E		70		F	
0079	LEAR	10	0300	0302	0308	S30	W21	9900	04	8.5	8	SF		3	E		13		F	
0080	LEAR	10	0353	0355	0414	N21	E39	9899	04	13.1	21	SF		3	E		53		F	
0081	LEAR	10	0418	0426	0440	N20	E31	9899	04	12.5	22	SF		2	E		76		FH	
0082	LEAR	10	0642	0649	0708	N20	E31	9899	04	12.6	26	1F		2	E		126		FH	
0083	LEAR	10	0743	0744	0749	N18	E63	9903	04	15.1	6	SF		2	E		45		FH	
0084		10	11142	1117	1130	N17	E26	9899	04	12.4	16	SF					28		F	
	RAMY	10	1114	1117	1135	N18	E26	9899	04	12.4	21	SF		3	E		39		F	
	SVTO	10	1116	1117	1125	N16	E27	9899	04	12.5	9	SF		3	E		16			
0085	RAMY	10	1124	1124	1131	N18	W10	9893	04	9.7	7	SF		3	E		57			
0086	RAMY	10	1229	1230	1233	N19	E04	9901	04	10.8	4	SF		3	E		19			
0087	HOLL	10	1331	1335	1414	N20	E03	9901	04	10.8	43	SF		3	E		55		F	
0088	HOLL	10	1540	1541	1544	N19	W11	9893	04	9.8	4	SF		3	E		33		F	
0089	RAMY	10	1639	1640	1643	N21	W05	9893	04	10.3	4	SF		3	E		15			
0090	HOLL	10	1851	1858	1915	S16	W20	9904	04	9.3	24	SF		3	E		22		F	
0091	HOLL	10	1902	1904	1933	N17	E23	9899	04	12.5	31	1N		3	E		172		FH	
0092	HOLL	10	2228E	2242U	2259D	S29	W29	9900	04	8.7	31D	SF		3	E		16		F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
						Region	Mo							Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
			10 2231		2250	No Flare Patrol											
0093	LEAR	11	0047	0047	0053	N20	E27	9899	04	13.1	6	SF	2	E	11	F	
0094	LEAR	11	0147	0153	0211	N20	W10	9893	04	10.3	24	1N	2	E	117	UZ	
0095	LEAR	11	0153	0154	0203	N16	E45	9902	04	14.5	10	SF	2	E	16	F	
0096	LEAR	11	0157	0158	0201	N18	E47	9903	04	14.7	4	SF	2	E	15		
0097	LEAR	11	0307	0310U	0314	S19	E09	9898	04	11.8	7	SF	2	E	20	F	
0098	LEAR	11	0346	0346	0354	N21	W17	9893	04	9.8	8	SF	2	E	14	F	
0099	LEAR	11	0347	0347	0352	N21	W03	9901	04	10.9	5	SF	2	E	14		
0100	LEAR	11	0406	0406	0411	S28	W32	9900	04	8.7	5	SF	2	E	19	F	
0101	LEAR	11	0601	0606	0641	S29	W31	9900	04	8.8	40	SF	2	E	77	F	
			11 0732		0742	No Flare Patrol											
			11 0941		0951	No Flare Patrol											
0102	KHAR	11	0952E		0958	N18	E14	9899	04	12.5	6D	SF	2	P	0956	180	EO
			11 1031		1258	No Flare Patrol											
0103		11	1619	1625	1705	S15	W33	9904	04	9.2	46	1F			142	FU	
	HOLL	11	1619	1624U		S15	W33	9904	04	9.2		1F	3	E	123		
	RAMY	11	1619	1625	1705	S15	W33	9904	04	9.2	46	1F	3	E	161	UF	
0104	HOLL	11	2259	2300	2307	N18	W28	9893	04	9.8	8	SF	3	E	24	F	
0105	LEAR	12	0146	0147	0153	S12	E36	9906	04	14.8	7	SF	3	E	14	FH	
0106	LEAR	12	0306	0307	0317	S03	E76	9907	04	17.8	11	SF	2	E	25	F	
0107	LEAR	12	0450	0455	0514	N16	E05	9899	04	12.6	24	SF	3	E	58	F	
0108	LEAR	12	0510	0513	0515	S04	E80	9907	04	18.2	5	SF	3	E	29		
0109	LEAR	12	0842	0842	0846	S15	E33	9906	04	14.9	4	SF	2	E	30		
0110	KHAR	12	0940E		0949	N03	E68	9907	04	17.5	9D	SF	2	P	0945	30	D
0111	KHAR	12	0952	0956	1015	N19	W29	9893	04	10.2	23	SN	2	P	1006	220	EO
0112	KHAR	12	1027	1029	1042	N23	E26	9903	04	14.4	15	SN	2	P	1032	95	O
0113	KHAR	12	1105		1121	N17	W30	9893	04	10.2	16	SF	2	P	1111	55	DO
			12 1139		1249	No Flare Patrol											
0114	KHAR	12	1309U	1311	1340	N16	W38	9893	04	9.7	31U	1N	2	V			E
			12 1341		1356	No Flare Patrol											
0115	HOLL	12	1409	1436	1453	N18	W31	9893	04	10.2	44	SF	3	E	17		
			12 1438		1442	No Flare Patrol											
0116	RAMY	12	1510	1514	1518	N12	E23	9902	04	14.4	8	SF	3	E	66		
0117	HOLL	12	1454	1457	1514	N18	W31	9893	04	10.3	20	SF	3	E	10		
0118		12	15123	15151	1522	N19	W32	9893	04	10.2	10	SF			22		
	RAMY	12	1512	1515	1517	N19	W34	9893	04	10.0	5	SF	3	E	22		
	HOLL	12	1515	1516	1527	N19	W30	9893	04	10.3	12	SF	3	E	21		

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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)		
0119	HOLL	12	1528	1531	1535	N18	W31	9893	04	10.3	7	SF	3	E		18			
0120	RAMY	12	1600	1601	1609	S04	E66	9907	04	17.6	9	SF	3	E		57			F
		12	1611		1734	No Flare Patrol													
0121	HOLL	12	1737	1756	1850	N21	W26	9901	04	10.7	73	1F	3	E		106			FU
		12	1933		2116	No Flare Patrol													
		12	2207		2259	No Flare Patrol													
		13	0031		0200	No Flare Patrol													
		13	0953		1030	No Flare Patrol													
0122	RAMY	13	1031E	1031U	1043	S28	W64	9900	04	8.4	12D	SF	3	E		55			
0123	RAMY	13	1148	1149	1158	N20	W43	9893	04	10.2	10	SF	3	E		20			
0124	RAMY	13	1212	1213	1222	S03	E57	9907	04	17.8	10	SF	3	E		41			F
		13	1308		1321	No Flare Patrol													
0125		13	1437I	1438I	1443	N20	W56	9893	04	9.3	6	SF				36			
	HOLL	13	1437	1438	1443	N18	W55	9893	04	9.4	6	SF	3	E		34			
	RAMY	13	1438	1440	1443	N22	W58	9893	04	9.1	5	SF	3	E		37			
0126		13	1522	1523I	1537	S16	E17	9906	04	14.9	15	SF				21			F
	RAMY	13	1522	1523	1538	S15	E16	9906	04	14.8	16	SF	3	E		22			F
	HOLL	13	1522	1524	1536	S16	E18	9906	04	15.0	14	SF	3	E		20			F
0127	RAMY	13	1633	1633	1646	S03	E55	9907	04	17.8	13	SF	3	E		10			F
0128	RAMY	13	1728	1729	1739	N19	W38	9901	04	10.8	11	SF	3	E		23			F
0129	HOLL	13	1731	1735	1738	N18	W39	9901	04	10.8	7	SF	3	E		14			F
		13	2026		2036	No Flare Patrol													
0130	RAMY	13	2034	2035	2044	S16	E14	9906	04	14.9	10	SF	3	E		19			F
		13	2225		2229	No Flare Patrol													
		13	2300		2309	No Flare Patrol													
0131	LEAR	14	0105	0105	0112	S04	E45	9907	04	17.4	7	SF	3	E		21			
0132	LEAR	14	0144	0146	0154	N19	W54	9893	04	9.9	10	SF	3	E		43			
0133	LEAR	14	0227	0230	0302	N19	W54	9893	04	10.0	35	SF	3	E		31			
0134	LEAR	14	0303	0342	0514	N22	W45	9893	04	10.7	131	1F	3	E		136			F
0135	MITK	14	0342	0352	0359	N19	W48	9901	04	10.5	17	SN			C	0352	41	0.7	D
0136	LEAR	14	0402	0403	0440	N21	W42	9901	04	10.9	38	SF	3	E		16			
0137	LEAR	14	0324	0325	0345	S04	E47	9907	04	17.6	21	SF	3	E		36			E
0138		14	0450I	0451I	0459	S02	E44	9907	04	17.5	9	SN				46		0.4	EF
	LEAR	14	0450	0451	0506	S04	E42	9907	04	17.3	16	SN	3	E		66			FE
	MITK	14	0451	0452	0452	N00	E46	9907	04	17.6	1	SN			C	0451	27	0.4	E
0139	LEAR	14	0451	0451	0457	S14	E08	9906	04	14.8	6	SF	3	E		18			F
0140	LEAR	14	0519	0520	0525	S15	E09	9906	04	14.9	6	SF	3	E		27			F
0141	LEAR	14	0537	0537	0546	S03	E45	9907	04	17.6	9	SF	3	E		38			EF
0142	LEAR	14	0641	0641	0644	N19	W43	9901	04	11.0	3	SF	3	E		16			
0143	LEAR	14	0652	0653	0703	S17	E10	9906	04	15.0	11	SF	3	E		18			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)	
0144	LEAR	14	0658	0701	0712	S04	E41	9907	04	17.3	14	SF	3	E		84		F
0145	LEAR	14	0736	0738	0746	N19	W57	9893	04	10.0	10	SF	3	E		53		F
0146	KANZ	14	0945	0950U	1004	S12	E02	9906	04	14.5	19	SF	2	E				
0147	KANZ	14	0956	0959	1014D	N26	W24		04	12.5	18D	SF	2	E				
		14	1015		1109	No Flare Patrol												
0148	SVTO	14	1215	1217U	1226D	N23	W56	9893	04	10.2	11D	SF	3	E		34		
0149	RAMY	14	1253	1253	1259	S17	E08	9906	04	15.1	6	SF	3	E		31		F
0150		14	13454	13501	1357	N21	W57	9893	04	10.2	12	SF				28		F
	SVTO	14	1345	1351	1358	N23	W56	9893	04	10.2	13	SF	3	E		49		F
	HOLL	14	1346	1350	1358	N20	W57	9893	04	10.2	12	SF	3	E		20		F
	RAMY	14	1349	1351	1355	N21	W57	9893	04	10.2	6	SF	3	E		16		
0151		14	13391	1340	1400	S16	E04	9906	04	14.9	21	SF				20		F
	HOLL	14	1339	1340	1357	S15	E05	9906	04	14.9	18	SF	3	E		16		F
	RAMY	14	1340	1340	1404	S16	E04	9906	04	14.9	24	SF	3	E		23		F
0152	HOLL	14	1358	1359	1403	S14	E03	9906	04	14.8	5	SF	3	E		13		F
0153		14	13594	1404	1407	S04	E38	9907	04	17.4	8	SF				22		F
	SVTO	14	1359	1404	1408	S04	E37	9907	04	17.3	9	SF	3	E		28		F
	HOLL	14	1403	1404	1406	S04	E38	9907	04	17.4	3	SF	3	E		17		F
0154	RAMY	14	1403	1404	1407	S07	E46	9907	04	18.0	4	SF	3	E		13		
0155		14	1545	1546	1555	N22	W58	9893	04	10.2	10	SF				42		H
	SVTO	14	1545E	1546U	1552D	N22	W58	9893	04	10.2	7D	SF	3	E		29		H
	RAMY	14	1545	1546	1555	N22	W59	9893	04	10.1	10	SF	3	E		54		H
0156	HOLL	14	1628	1629	1632	S15	W73	9904	04	9.1	4	SF	3	E		21		
0157	HOLL	14	1728	1738	1743	N20	W59	9893	04	10.2	15	SF	3	E		18		
0158		14	20544	20562	2103	S04	E36	9907	04	17.6	9	SF				48		F
	HOLL	14	2054	2056	2103	S03	E35	9907	04	17.5	9	SF	3	E		74		F
	RAMY	14	2058	2058	2103	S04	E36	9907	04	17.6	5	SF	3	E		22		
0159	HOLL	14	2104	2110	2146	N19	W62	9893	04	10.1	42	SF	3	E		23		F
0160	HOLL	14	2120	2140	2144	N20	W58	9901	04	10.4	24	SF	3	E		45		
0161	RAMY	14	2124	2132	2141	N21	W56	9893	04	10.6	17	SF	3	E		16		F
0162	HOLL	14	2225	2228	2232	N18	W74	9893	04	9.3	7	SF	3	E		53		HS
0163	HOLL	14	2235	2237	2252	N20	W64	9893	04	10.0	17	1F	3	E		118		FH
0164	HOLL	14	2337	2420	2449	N19	W60	9893	04	10.4	72	SF	3	E		97		F
0165	HOLL	14	2340	2413	2449	N21	W55	9901	04	10.8	69	SF	3	E		96		F
0166	LEAR	15	0004	0011	0045	N22	W58	9901	04	10.5	41	SF	3	E		60		F
0167	LEAR	15	0009	0016	0042	N19	W66	9893	04	10.0	33	SF	3	E		27		F
0168	LEAR	15	0249	0253	0259	N19	W79	9893	04	9.1	10	SF	3	E		45		
0169	LEAR	15	0307	0325	0515	S15	W01	9906	04	15.0	128	SF	3	E		83		FZ
0170	LEAR	15	0634	0638	0645	N10	E68	9909	04	20.4	11	SF	3	E		54		
0171	SVTO	15	0718	0718	0729	N24	W67	9893	04	10.1	11	SF	3	E		23		

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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)	
0172	SVTO	15	0952	0953	0955	N21	W59	9901	04	10.9	3	SF		3	E		36		
0173	SVTO	15	1142	1142	1145	N27	W71	9901	04	9.9	3	SF		3	E		47		
0174	HOLL	15	1733	1747	1755	S16	W60	9905	04	11.2	22	SF		3	E		15		FS
			15 1756		1822			No Flare Patrol											
			15 2101		2352			No Flare Patrol											
			15 2357		2400			No Flare Patrol											
			16 0000		0032			No Flare Patrol											
0175	LEAR	16	0626	0626	0630	N24	W88	9893	04	9.5	4	SF		2	E		29		H
0176	SVTO	16	1041	1047	1051	S14	W77	9904	04	10.6	10	SF		3	E		15		F
0177	SVTO	16	1308	1309	1327	S14	W24	9906	04	14.7	19	SF		3	E		41		F
0178	SVTO	16	1310	1320	1332	N23	W88	9893	04	9.8	22	SF		3	E		43		
0179	HOLL	16	1323	1323	1328	N19	W67	9901	04	11.4	5	SF		3	E		22		
0180	SVTO	16	1513	1513	1518	S15	W21	9906	04	15.0	5	SF		3	E		12		
0181	SVTO	16	1556	1556	1601	S08	W68	9896	04	11.6	5	SF		3	E		19		
			16 1710		1744			No Flare Patrol											
0182	HOLL	16	1844	1845	1848	S14	W27	9906	04	14.7	4	SF		3	E		13		
0183			17 0038	00381	0045	S14	W81	9905	04	10.9	7	SF					44		FH
	HOLL		17 0038	0038	0046	S14	W79	9905	04	11.0	8	SF		3	E		57		FH
	LEAR		17 0038	0039	0044	S13	W83	9905	04	10.8	6	SF		3	E		32		F
0184	LEAR	17	0226	0235	0238	S13	W84	9905	04	10.8	12	SF		3	E		32		
0185	SVTO	17	0536	0537	0541	S13	W90	9905	04	10.4	5	SF		3	E		32		
0186	SVTO	17	0622	0623	0628	S13	W90	9905	04	10.5	6	SF		3	E		73		
0187	SVTO	17	0657	0657	0703	S13	W90	9905	04	10.5	6	SF		3	E		30		
0188			17 0750	08151	1141D	S14	W36	9906	04	14.6	231D	2N					302		FTZ
	SVTO		17 0750	0815	1141D	S14	W34	9906	04	14.7	231D	2N		3	E		253		ZFT
	LEAR		17 0758E	0816	0906D	S13	W37	9906	04	14.5	68D	2N		1	E		352		ZF
			17 1114		1131			No Flare Patrol											
0189	RAMY	17	1135	1135	1147	S14	W31	9906	04	15.1	12	SF		3	E		16		
0190	RAMY	17	1200	1201	1206	S14	W87	9905	04	10.9	6	SF		3	E		42		
0191	RAMY	17	1258	1258	1302	S13	W91	9905	04	10.7	4	SF		3	E		19		
0192	HOLL	17	1338	1342	1347	S17	W83	9905	04	11.3	9	SF		3	E		23		
0193	HOLL	17	1344	1348	1351	S14	W37	9905	04	14.8	7	SF		3	E		12		F
0194	HOLL	17	1420	1426	1430	N07	E39	9909	04	20.5	10	SF		3	E		21		F
0195	RAMY	17	1420	1427	1431	N06	E31	9905	04	19.9	11	SF		3	E		16		
			17 1843		2122			No Flare Patrol											
			17 2128		2400			No Flare Patrol											
			18 0000		0116			No Flare Patrol											
			18 0332		0346			No Flare Patrol											
			18 0401		0550			No Flare Patrol											
			18 0555		0748			No Flare Patrol											
0196	SVTO	18	0905	0911	0929	S13	W46	9906	04	14.9	24	SF		2	E		25		

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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)		
			21 1842		1902			No Flare Patrol												
			21 2305		2313			No Flare Patrol												
0218	LEAR	22	0050	0050	0104	N11	E54	9915	04	26.1	14	SF		3	E		10			F
			22 0438		0439			No Flare Patrol												
0219	SVTO	22	0545	0546	0557	S17	E67	9916	04	27.3	12	SF		3	E		33			
0220	KANZ	22	0639	0640	0652	N10	W15	9912	04	21.2	13	SF		2	E					
0221	KANZ	22	0645	0646	0656	S17	E32	9920	04	24.7	11	SF		2	E					
0222	KANZ	22	0756	0756	0759	N03	E34	9914	04	24.9	3	SF		2	E					
0223	KANZ	22	0801	0803	0809	N02	E35	9914	04	24.9	8	SF		2	E					
0224	SVTO	22	1007	1008	1014	N03	E39	9914	04	25.3	7	SF		3	E		13			
0225	SVTO	22	1204	1207	1216	N12	W19	9912	04	21.1	12	SF		3	E		14			
0226		22	1440	1441	1449	N04	E37	9914	04	25.4	9	SF					30			F
	SVTO	22	1440	1441	1451	N03	E37	9914	04	25.4	11	SF		3	E		35			F
	HOLL	22	1440	1442	1447	N04	E37	9914	04	25.4	7	SF		3	E		26			F
0227		23	0001	0001	0005	N04	E32	9914	04	25.4	4	SF					20			F
	LEAR	23	0001	0001	0005	N03	E33	9914	04	25.5	4	SF		3	E		15			F
	HOLL	23	0001E	0003U	0024D	N04	E32	9914	04	25.4	23D	SF		3	E		25			
0228		23	12462	12491	1259	S16	E52	9916	04	27.5	13	SF					28			F
	SVTO	23	1246	1249	1259	S14	E52	9916	04	27.5	13	SF		3	E		26			F
	RAMY	23	1248	1250	1259	S18	E52	9916	04	27.5	11	SF		3	E		30			F
0229	SVTO	23	1545	1545	1548	N12	E28	9915	04	25.8	3	SF		3	E		33			F
			23 1722		1733			No Flare Patrol												
			23 1808		1818			No Flare Patrol												
			23 1835		1954			No Flare Patrol												
			23 2029		2145			No Flare Patrol												
			23 2155		2319			No Flare Patrol												
0230	LEAR	24	0537	0539	0555	S15	W34	9913	04	21.7	18	SF		4	E		42			FH
0231	SVTO	24	0539	0549	0559	S14	W34	9913	04	21.7	20	SF		3	E		38			H
0232		24	06353	0641	0650	S15	W34	9913	04	21.7	15	SF					26			FH
	SVTO	24	0635	0641	0653	S14	W35	9913	04	21.6	18	SF		3	E		32			
	LEAR	24	0638	0641	0646	S16	W34	9913	04	21.7	8	SF		4	E		19			FH
0233	SVTO	24	0709	0709	0714	S15	W33	9913	04	21.8	5	SF		3	E		10			
0234	SVTO	24	0732	0735	0744	S18	E03	9924	04	24.5	12	SF		3	E		18			FH
0235	SVTO	24	1023	1029	1034	S17	E00	9924	04	24.4	11	SF		3	E		12			
0236	SVTO	24	1046	1050	1119	S15	W37	9913	04	21.6	33	SF		3	E		57			FH
0237	SVTO	24	1121	1122	1129	N12	E17	9915	04	25.7	8	SF		3	E		14			
0238	SVTO	24	1125	1125	1132	N13	W47	9912	04	20.9	7	SF		3	E		29			
0239	SVTO	24	1126	1130	1137	S23	W09	9920	04	23.8	11	SF		3	E		12			
0240	SVTO	24	1315	1317	1328	S18	E01	9924	04	24.6	13	SF		3	E		11			
0241		24	13356	1342	1352	S18	E00	9924	04	24.6	17	SF					16			F
	SVTO	24	1335	1342	1354	S18	E00	9924	04	24.6	19	SF		3	E		19			
	HOLL	24	1341	1342	1349	S19	E00	9924	04	24.6	8	SF		3	E		14			F

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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	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0242		24	13486	1354	1406	S14	W38	9913	04	21.7	18	SF					18		FH
	SVTO	24	1348	1354	1409	S14	W39	9913	04	21.6	21	SF		3	E		24		
	HOLL	24	1354	1354	1404	S15	W38	9913	04	21.7	10	SF		3	E		12		FH
0243	SVTO	24	1412	1423	1457	S14	W40	9913	04	21.6	45	SF		3	E		49		
0244		24	1547	1552	1628	N10	W47	9912	04	21.1	41	1N					112		F
	HOLL	24	1547	1552	1624	N10	W47	9912	04	21.1	37	SF		3	E		63		F
	SVTO	24	1547	1552	1633	N09	W47	9912	04	21.1	46	1N		3	E		162		
0245	HOLL	24	1634	1637	1649	S14	E40	9916	04	27.7	15	SF		3	E		48		FH
		24	1728		1752														No Flare Patrol
		24	1815		1842														No Flare Patrol
		24	1900		1912														No Flare Patrol
		24	1944		2033														No Flare Patrol
		24	2106		2116														No Flare Patrol
0246	HOLL	24	2149	2156	2206D	N09	W49	9912	04	21.2	17D	1F		3	E		101		
		24	2207		2218														No Flare Patrol
		25	0115		0142														No Flare Patrol
0247	LEAR	25	0541	0546	0551	N10	W56	9912	04	21.0	10	SF		2	E		16		F
0248	LEAR	25	0555	0557	0600	S19	W08	9924	04	24.6	5	SF		2	E		16		
0249	LEAR	25	0601	0606	0612	N10	W56	9912	04	21.0	11	SF		2	E		21		F
		25	0918		1132														No Flare Patrol
		25	1331		2204														No Flare Patrol
0250	VORO	25	2223	2223	2240	S19	W05		04	25.5	17	SF		3	C	2231	54	0.6	
0251	KANZ	26	1017	1031	1040	N11	E45	9926	04	29.8	23	SF		2	E				
0252		26	13241	13261	1334	N04	W18	9914	04	25.2	10	SF					24		
	SVTO	26	1324	1326	1333	N04	W19	9914	04	25.1	9	SF		3	E		25		
	HOLL	26	1325	1327	1335	N05	W18	9914	04	25.2	10	SF		3	E		24		
		26	1907		2111														No Flare Patrol
		26	2117		2323														No Flare Patrol
		26	2338		2343														No Flare Patrol
		26	2348		2353														No Flare Patrol
0253		27	10535	10535	1100	N12	E23	9919	04	29.2	7	SF					15		
	SVTO	27	1053	1053	1057	N13	E23	9919	04	29.2	4	SF		3	E		15		
	SVTO	27	1058	1058	1102	N12	E23	9919	04	29.2	4	SF		3	E		15		
		27	1136		1145														No Flare Patrol
		27	1244		1249														No Flare Patrol
		27	1257		1304														No Flare Patrol
0254	HOLL	27	1529	1548	1629	N16	E22	9919	04	29.3	60	SF		3	E		89		F
		28	0006		0009														No Flare Patrol
		28	0836		0849														No Flare Patrol
0255	HOLL	28	1820	1822	1853D	S15	W57	9924	04	24.4	33D	SF		3	E		32		
		28	1828		1852														No Flare Patrol
0256	HOLL	28	2058	2101	2109	N15	W39	9915	04	25.9	11	SF		3	E		23		F
		28	2232		2250														No Flare Patrol
		28	2254		2302														No Flare Patrol
		28	2308		2332														No Flare Patrol
0257	LEAR	29	0311	0311	0316	N14	W03	9919	04	28.9	5	SF		3	E		13		

H α SOLAR FLARES

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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)	
0258	LEAR	29	0339	0339	0342	N10	W43	9915	04	25.9	3	SF		3	E		13		
			29 0926		0931			No Flare Patrol											
			29 0933		0940			No Flare Patrol											
			29 0954		0958			No Flare Patrol											
			29 1001		1033			No Flare Patrol											
			29 1043		1137			No Flare Patrol											
			29 1253		1311			No Flare Patrol											
			29 1820		1844			No Flare Patrol											
			29 1904		1918			No Flare Patrol											
			29 1931		1951			No Flare Patrol											
0259	HOLL	29	2010	2012	2013	N10	W49	9915	04	26.1	3	SF		3	E		14		
			29 2037		2056			No Flare Patrol											
			29 2144		2257			No Flare Patrol											
			29 2302		2319			No Flare Patrol											
			29 2324		2336			No Flare Patrol											
0260	LEAR	30	0049	0104	0128	N14	W11	9919	04	29.2	39	2F		3	E		416		F
0261		30	0650	0653	0703	N16	W19	9919	04	28.8	13	SF					54		F
	LEAR	30	0650	0653	0703	N15	W19	9919	04	28.8	13	SF		3	E		66		
	SVTO	30	0650E	0654U	0706D	N16	W19	9919	04	28.8	16D	SF		3	E		41		F
			30 0950		1015			No Flare Patrol											
0262	SVTO	30	1112	1118	1135	N11	W71	9914	04	25.1	23	SF		3	E		18		F
			30 1722		1855			No Flare Patrol											
0263	HOLL	30	1951	1951	2001	N15	W51	9921	04	27.0	10	SF		3	E		24		

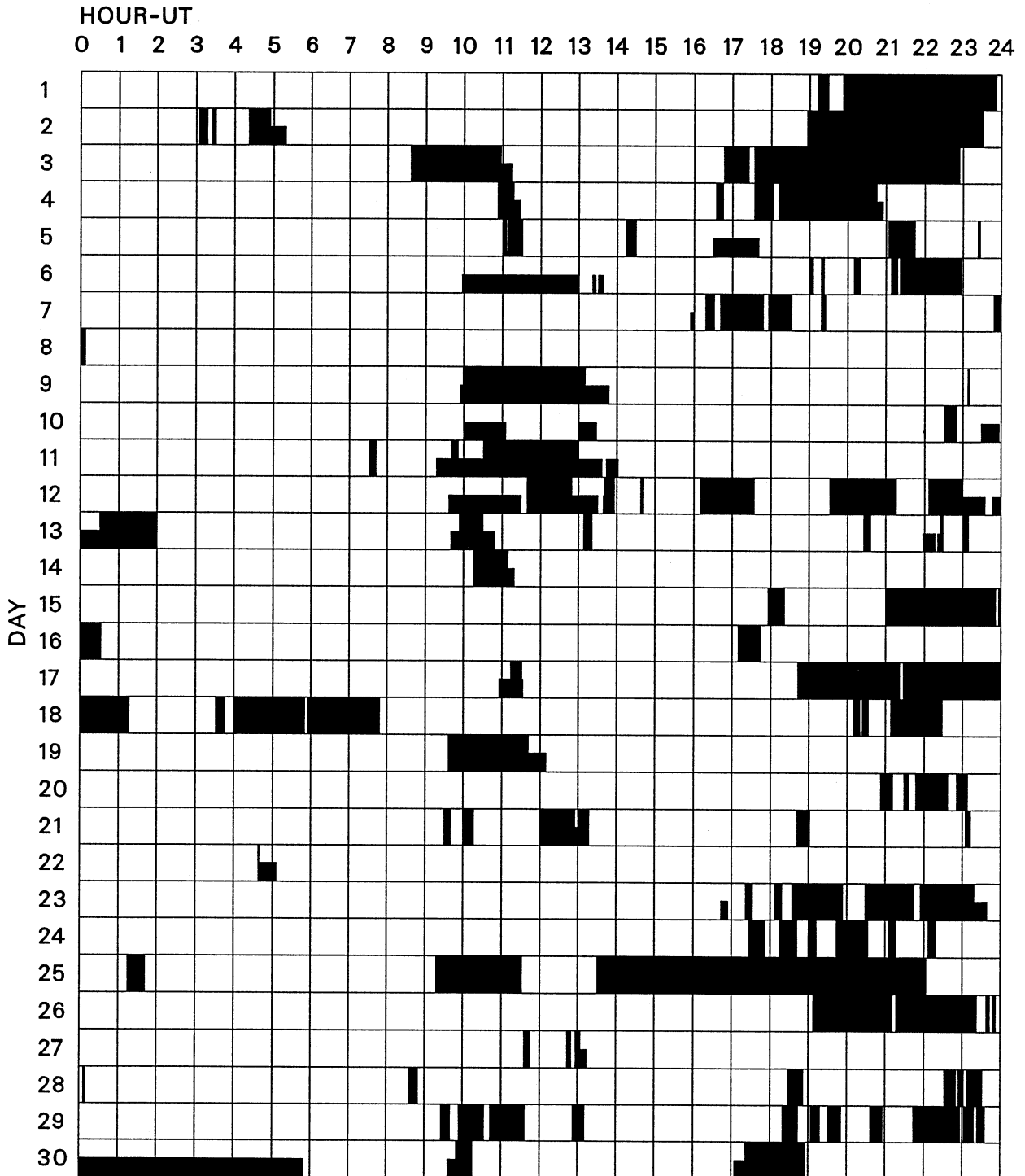
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

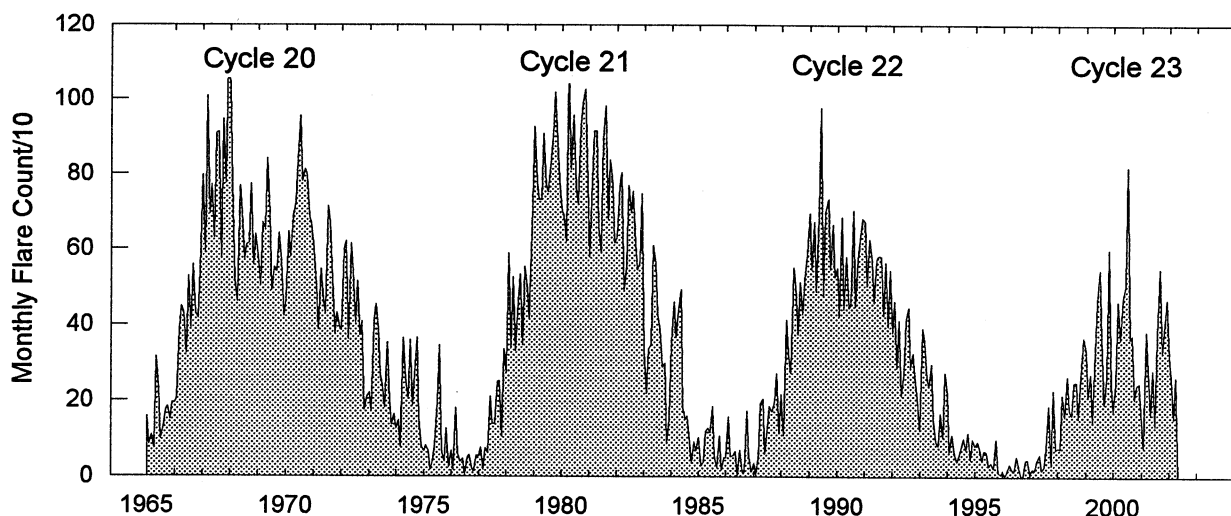
APRIL 2002



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

Holloman	Learmonth	Ramey	San Vito
Mitaka	Voroshilov	Kanzelhoehe	

Monthly Counts of Grouped Solar Flares Jan 1965 - Apr 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	263									997

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

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

APRIL 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
01	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0900.0E		500.0D		22.0		V=2
	235	CUBA	44 NS	1305.0E		175.0D		5.0		
	280	CUBA	44 NS	1305.0E		175.0D		16.0		
	900	GORK	2 S/F	0503.0	0505.6	5.0	5.8			
	245	LEAR	8 S	0534.0	0534.0	U	50.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0752.0	0752.2	1.0	12.0			
	900	GORK	41 F	0752.0	0752.7		19.0			
	900	GORK	42 SER	0919.3	0934.5	47.0	14.0			
	900	GORK	42 SER	0919.3	0957.6		32.0			
	127	TORN	7 C	1128.6	1130.0	1.9	160.0	40.0		
	2800	PENT	29 PBI	1524.0	1531.0	61.0	14.0			
	610	SVTO	4 S/F	1647.0E	1650.0	4.0D	230.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1928.0	1928.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2145.0	2146.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2149.0	2149.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2151.0	2151.0	U	83.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2152.0	2152.0	U	60.0			QL=4 ST=2 TYP=3	
02	127	TORN	43 NS	0828.0		362.0		13.0		V=0
	235	CUBA	44 NS	1310.0E		290.0D		6.0		
	280	CUBA	44 NS	1310.0E		290.0D		16.0		
	2800	PENT	40 F	0020.0	0035.0	28.0	13.0			
	2804	VORO	45 C	0030.9	0034.8	7.6	9.4			
	2840	PEKG	5 S	0031.0	0036.0	8.0	10.8			
	2840	PEKG	1 S	0045.0	0047.3	5.0	4.1			
	200	HIRA	8 S	0055.0	0055.0	1.0	25.0			0
	200	HIRA	8 S	0222.0	0223.0	1.0	20.0			WR
	2840	PEKG	5 S	0431.0	0433.3	6.0	13.7			
	4995	LEAR	8 S	0433.0	0433.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0433.0	0433.0	1.0	110.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0744.1	0745.1		28.0			
	900	GORK	41 F	0744.1	0744.2	2.5	4.4			
	900	GORK	41 F	0825.1	0826.2		8.9			
	900	GORK	41 F	0825.1	0825.4	1.4	4.4			
	900	GORK	8 S	0902.8	0902.9	0.2	140.0			
	245	SVTO	8 S	0927.0	0929.0	2.0	58.0			QL=4 ST=2 TYP=3
	900	GORK	3 S	1023.4	1023.5	0.4	36.0			
	200	IZMI	46 C	1139.0	1140.0	2.6	436.0			
	245	SGMR	8 S	1139.0	1140.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1139.0	1140.0	1.0	76.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1139.8	1140.5	2.2				UNCERTN
	9500	CUBA	1 S	1406.2	1406.9	1.1	15.0	7.0		
	2800	PENT	21 GRF	1539.0	1544.0	27.0	6.0			
	245	SGMR	8 S	1814.0	1814.0	U	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1846.0	1846.0	U	220.0			QL=4 ST=2 TYP=3
610	SGMR	8 S	1846.0	1846.0	U	110.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1905.0	1907.0	2.0	84.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2026.0	2026.0	U	50.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2129.0	2129.0	U	58.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2255.0	2255.0	1.0	15.0			0	
200	HIRA	8 S	2305.0	2305.0	1.0	15.0			0	
03	127	TORN	43 NS	0750.0		370.0		13.0		V=0
	280	CUBA	44 NS	1310.0E		520.0D		14.0		
	245	SGMR	43 NS	1459.0	1532.0	88.0	64.0			QL=4 ST=2 TYP=1
	200	HIRA	42 SER	0101.0	0104.0	5.0	15.0			0
	245	LEAR	8 S	0119.0	0119.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0119.0	0119.0	U	64.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0212.0	0212.0	1.0	30.0			0
	200	HIRA	8 S	0315.0	0316.0	1.0	30.0			0
	245	LEAR	8 S	0315.0	0315.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0315.0	0315.0	U	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0402.0	0402.0	1.0	15.0			0
	200	HIRA	8 S	0412.0	0412.0	1.0	15.0			0
	200	HIRA	8 S	0424.0	0424.0	1.0	20.0			0
	9100	GORK	46 C	0538.2	0538.7		10.0			
	9100	GORK	46 C	0538.2	0538.8	1.0	31.0			
245	LEAR	4 S/F	0721.0	0723.0	8.0	330.0			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
03	245	LEAR	8 S	0723.0	0723.0	U	320.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0723.0	0723.0	U	190.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0731.8	0732.4	0.9	20.0			
	204	IZMI	42 SER	0817.8	0817.9	3.1	134.0			
	204	IZMI	7 C	0912.6	0912.6	0.1	10.0			
	900	GORK	40 F	0918.8	0919.7	1.9	9.0			
	245	LEAR	8 S	0927.0	0927.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0927.0	0927.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0927.4	0928.1	1.0	67.0			
	127	TORN	8 S	0934.0	0934.6	1.0	200.0	100.0		
	204	IZMI	41 F	0958.3	0958.4	1.0	19.0			
	245	LEAR	48 C	1001.0	1001.0	U	55.0			QL=4 ST=3 TYP=8
	245	SVTO	8 S	1001.0	1001.0	1.0	54.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1001.4	1001.9	0.7	12.0			
	245	SGMR	48 C	1130.0	1133.0	3.0	360.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	1130.2	1131.7	2.6	178.0			
	204	IZMI	46 C	1132.9	1133.4	1.1	705.0			
	410	SGMR	8 S	1133.0	1133.0	1.0	470.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1133.0	1133.0	U	41.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1135.5	1135.8	1.4	37.0			
	245	SGMR	8 S	1402.0	1402.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1402.0	1402.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1406.0	1406.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1419.0	1419.0	3.0	120.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1419.0	1419.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1421.0	1422.0	1.0	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1422.0	1422.0	U	21.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1422.0	1422.0	1.0	23.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1427.0	1430.0	3.0	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1429.0	1430.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1512.0	1512.0	U	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1536.0	1536.0	U	70.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1536.0	1536.0	U	50.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1536.0	1536.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1641.0	1641.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1645.0	1645.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1742.0	1744.0	2.0	1000.0			QL=4 ST=3 TYP=3
	245	SGMR	49 GB	1742.0	1743.0	2.0	850.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1744.0	1744.0	U	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1903.0	1903.0	U	64.0			QL=4 ST=2 TYP=3
410	SGMR	8 S	1903.0	1903.0	U	32.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1907.0	1907.0	3.0	55.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1909.0	1909.0	U	76.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1943.0	1943.0	U	52.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2013.0	2014.0	1.0	59.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2014.0	2014.0	U	63.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2014.0	2014.0	U	34.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2024.0	2025.0	1.0	65.0			0	
245	PALE	8 S	2024.0	2025.0	1.0	160.0			QL=4 ST=3 TYP=3	
245	SGMR	8 S	2024.0	2024.0	1.0	160.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2315.0	2315.0	1.0	70.0			0	
2840	PEKG	5 S	2350.0	2352.8	7.0	15.9				
04	127	TORN	44 NS	0750.0E		330.0D		15.0		V=0
	235	CUBA	44 NS	1315.0E		515.0D		5.0		
	2804	VORO	27 RF	0425.6	0438.8	16.9	8.1			
	410	SVTO	8 S	0545.0	0545.0	U	84.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	0557.0	0557.0	3.0	100.0			QL=4 ST=2 TYP=8
	2840	PEKG	3 S	0645.0	0652.3	22.0	18.7			
	610	LEAR	4 S/F	0650.0	0652.0	3.0	15.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	0651.0	0655.0	6.0	15.0			0
	200	HIRA	8 S	0651.0	0651.0	1.0	35.0			0
	245	LEAR	49 GB	0651.0	0652.0	2.0	2300.0			QL=4 ST=3 TYP=6
	410	LEAR	8 S	0651.0	0652.0	2.0	31.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0651.0	0652.0	1.0	12.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0651.0	0652.0	2.0	16.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0651.0	0652.0	3.0	2400.0			QL=4 ST=2 TYP=6
600	GORK	40 F	0651.3	0652.2	1.4	13.0				
900	GORK	40 F	0651.3	0651.5	2.5	12.0				

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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)	Mean	Int	Remarks	
04	204	IZMI	7 C	0651.5	0651.5	0.1	35.0				
	3000	IZMI	22 GRF	0651.6	0652.3	2.7	20.0	6.0			
	9100	GORK	5 S	0652.4	0654.2	5.6	6.5				
	204	IZMI	41 F	0653.9	0654.8	1.5	22.0				
	245	SVTO	8 S	0706.0	0706.0	U	66.0			QL=4 ST=2 TYP=3	
	2950	GORK	46 C	0751.3	0752.3	4.9	18.0				
	2950	GORK	46 C	0751.3	0753.5		8.2				
	245	LEAR	49 GB	0808.0	0808.0	1.0	1400.0			QL=4 ST=3 TYP=6	
	200	HIRA	47 GB	0809.0	0809.0	1.0	755.0			0	
	245	SVTO	49 GB	0809.0	0809.0	U	1300.0			QL=4 ST=2 TYP=6	
	127	TORN	8 S	0809.0	0809.1	0.7	7200.0	3600.0			DISTURBED
	204	IZMI	46 C	0809.0	0809.2	1.2	3890.0				
	410	SVTO	8 S	0833.0	0834.0	1.0	91.0				QL=4 ST=2 TYP=3
	410	SVTO	48 C	0838.0	0838.0	3.0	66.0				QL=4 ST=2 TYP=8
	3000	IZMI	20 GRF	0903.1	0903.8	0.9	9.0				
	900	GORK	42 SER	0909.2	0929.2		30.0				
	900	GORK	42 SER	0909.2	0909.3	26.6	9.5				
	204	IZMI	42 SER	0949.4	0949.7	0.4	62.0				
	245	SVTO	48 C	1006.0	1006.0	2.0	290.0				QL=4 ST=2 TYP=8
	204	IZMI	46 C	1006.4	1006.5	0.7	394.0				
	204	IZMI	41 F	1042.9	1046.2	5.0	13.0				
	33	UPIC	46 C	1043.0	1044.0	4.0					
	4995	SVTO	8 S	1044.0	1045.0	1.0	31.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1044.0	1045.0	1.0	51.0				QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	1044.7	1045.3	1.5	8.0	4.0			
	15400	SVTO	8 S	1045.0	1045.0	U	23.0				QL=4 ST=2 TYP=3
	610	SVTO	48 C	1104.0	1107.0	4.0	97.0				QL=2 ST=2 TYP=8
	245	SGMR	48 C	1144.0	1145.0	3.0	100.0				QL=4 ST=2 TYP=8
	245	SGMR	8 S	1148.0	1149.0	1.0	170.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1148.5	1149.2	1.7	185.0				
	245	SVTO	8 S	1149.0	1149.0	U	140.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1151.0	1151.0	1.0	180.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1151.0	1151.0	U	46.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1151.0	1151.0	U	63.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1151.0	1151.0	1.0	150.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1151.0	1151.0	U	66.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1151.0	1151.0	U	75.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1151.7	1151.8	1.0	1097.0				
	204	IZMI	42 SER	1154.2	1154.6	0.7	20.0				
	245	SGMR	48 C	1217.0	1217.0	U	54.0				QL=4 ST=2 TYP=8
	245	SGMR	8 S	1334.0	1334.0	U	100.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1334.0	1334.0	U	87.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1411.0	1411.0	U	260.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1411.0	1411.0	U	210.0				QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1434.0	1434.0	1.0	54.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1434.0	1434.0	U	40.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1434.1	1434.4	1.4	21.0	10.0			
	245	SGMR	8 S	1453.0	1453.0	U	52.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1527.0	1530.0	4.8	81.0	40.0			
	610	SGMR	8 S	1529.0	1529.0	U	29.0				QL=4 ST=2 TYP=3
1415	SGMR	8 S	1529.0	1530.0	1.0	47.0				QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1529.0	1530.0	1.0	58.0				QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1529.0	1530.0	1.0	64.0				QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1529.0	1530.0	1.0	86.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1529.0	1529.0	1.0	94.0				QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1529.0	1530.0	1.0	44.0				QL=4 ST=2 TYP=3	
2695	SVTO	8 S	1529.0	1530.0	1.0	51.0				QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1529.0	1530.0	1.0	66.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1529.0	1530.0	1.0	84.0				QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1529.0	1529.0	1.0	84.0				QL=4 ST=2 TYP=3	
33	UPIC	4 S/F	1529.5	1529.8	1.0						
245	SGMR	8 S	1531.0	1532.0	1.0	310.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1532.0	1532.0	U	250.0				QL=4 ST=2 TYP=3	
245	SGMR	48 C	1535.0	1535.0	5.0	67.0				QL=4 ST=2 TYP=8	
245	SVTO	48 C	1535.0	1535.0	3.0	57.0				QL=4 ST=2 TYP=8	
235	CUBA	7 C	1541.7	1541.9	6.2	29.0	15.0				
245	PALE	8 S	1942.0	1942.0	U	190.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	1942.0	1942.0	U	140.0				QL=4 ST=2 TYP=3	
2804	VORO	45 C	2302.5	2303.0	4.3	30.5					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
04	200	HIRA	42 SER	2303.0	2305.0	9.0	20.0		0	
	245	PALE	8 S	2303.0	2303.0	U	97.0			QL=4 ST=2 TYP=3
05	127	TORN	44 NS	0640.0E		460.0D		15.0		V=0
	245	LEAR	48 C	0452.0	0452.0	2.0	250.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	0452.0	0452.0	2.0	170.0			QL=4 ST=2 TYP=8
	2840	PEKG	1 S	0452.0	0455.4	6.0	8.5			
	200	HIRA	8 S	0559.0	0559.0	1.0	200.0			0
	204	IZMI	42 SER	0629.9	0630.5	1.1	1673.0			
	200	HIRA	8 S	0630.0	0631.0	1.0	380.0			0
	245	LEAR	8 S	0630.0	0630.0	U	370.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0630.0	0630.0	U	270.0			QL=4 ST=2 TYP=3
	200	HIRA	47 GB	0723.0	0725.0	6.0	575.0			WR
	245	LEAR	49 GB	0723.0	0724.0	2.0	860.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0723.0	0724.0	2.0	610.0			QL=4 ST=2 TYP=6
	204	IZMI	41 F	0723.2	0723.5	0.8	193.0			
	2950	GORK	2 S/F	0724.8	0725.0	0.8	7.7			
	204	IZMI	46 C	0724.8	0724.9	0.8	2202.0			
	900	GORK	42 SER	0737.4	0959.2		100.0			
	900	GORK	42 SER	0737.4	0833.3	144.1	75.0			
	410	SVTO	8 S	0741.0	0741.0	U	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0746.0	0746.0	1.0	61.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0845.2	0845.2	0.1	16.0			
	410	LEAR	8 S	0908.0	0908.0	U	56.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1013.5	1013.6	0.5	68.0			
	204	IZMI	7 C	1018.6	1018.8	0.3	22.0			
	900	GORK	41 F	1035.7	1037.2	5.3	3.0			
	900	GORK	41 F	1035.7	1037.6		3.0			
	600	GORK	40 F	1036.5	1037.7	2.5	160.0			
	2950	GORK	7 C	1037.5	1037.8		5.3			
	2950	GORK	7 C	1037.5	1037.9	1.6	4.2			
204	IZMI	7 C	1040.8	1040.9	0.1	6.0				
245	SVTO	8 S	1046.0	1046.0	U	98.0			QL=4 ST=2 TYP=3	
204	IZMI	7 C	1046.9	1047.0	0.3	15.0				
610	SVTO	8 S	1103.0	1103.0	U	230.0			QL=4 ST=2 TYP=3	
2800	PENT	21 GRF	1511.0	1519.0	14.0	5.0				
245	PALE	8 S	2247.0	2247.0	U	75.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2247.0E	2247.0U	U	98.0			QL=4 ST=3 TYP=3	
200	HIRA	8 S	2248.0	2248.0	1.0	70.0			0	
2800	PENT	1 S	2335.0	2344.0	13.0	10.0				
2804	VORO	42 SER	2338.3	2338.9	3.1	5.5				
2804	VORO	42 SER	2338.3	2343.9	7.6	8.2				
2840	PEKG	5 S	2341.0	2344.2	7.0	15.7				
06	127	TORN	44 NS	0820.0E		400.0D		17.0		V=0
	2804	VORO	8 S	0305.0	0305.1	0.9	7.9			
	2840	PEKG	3 S	0607.0	0614.5	14.0	18.5			
	204	IZMI	42 SER	0610.2	0610.7	0.7	12.0			
	3000	IZMI	22 GRF	0612.9	0614.2	3.9	15.1		6.5	
	245	LEAR	8 S	0617.0	0617.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0617.0	0618.0	1.0	85.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0617.2	0618.0	1.5	245.0			
	200	HIRA	8 S	0618.0	0618.0	1.0	95.0			0
	33	UPIC	3 S	0710.0	0710.5	1.0				
	127	TORN	46 C	0859.2	0900.0	1.6	1070.0		120.0	
	204	IZMI	41 F	0909.0	0910.0	1.8	85.0			
	204	IZMI	42 SER	0914.4	0914.7	1.7	17.0			
	204	IZMI	42 SER	1021.5	1021.8	0.5	6.0			
	610	SVTO	8 S	1103.0	1103.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2108.0	2108.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2108.0	2109.0	1.0	56.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2114.0	2114.0	U	53.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2131.0	2131.0	1.0	150.0			QL=4 ST=2 TYP=3	
07	127	TORN	44 NS	0640.0E		500.0D		19.0		V=1
	200	HIRA	8 S	0003.0	0003.0	1.0	20.0			0
	200	HIRA	8 S	0159.0	0200.0	2.0	30.0			WR
	245	LEAR	4 S/F	0635.0	0635.0	6.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0635.0	0635.0	U	60.0			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
07	204	IZMI	41 F	0635.4	0635.6	0.4	33.0			
	900	GORK	46 C	0758.3	0758.4	2.0	15.0			
	900	GORK	46 C	0758.3	0758.6		10.0			
	900	GORK	42 SER	1006.3	1008.2		140.0U			
	900	GORK	42 SER	1006.3	1007.9	21.7	140.0U			
	33	UPIC	42 SER	1243.0	1340.0	101.0				
	245	SGMR	8 S	1244.0	1244.0	U	430.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1244.0	1244.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1244.0	1244.0	U	350.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1244.0	1244.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1339.0	1340.0	1.0	450.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1340.0	1340.0	U	1600.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1340.0	1340.0	U	2400.0			QL=4 ST=3 TYP=6
	1415	SGMR	49 GB	1419.0	1419.0	2.0	590.0			QL=4 ST=3 TYP=6
	1415	SVTO	49 GB	1419.0	1419.0	1.0	570.0			QL=4 ST=2 TYP=6
	9500	CUBA	20 GRF	1421.0	1506.0	64.0	7.0	3.0		
	245	SGMR	48 C	1814.0	1814.0	2.0	54.0			QL=4 ST=2 TYP=8
	410	SGMR	8 S	1816.0	1816.0	U	32.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1907.0	1907.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1942.0	1942.0	1.0	130.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2131.0	2131.0	U	51.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2335.0	2335.0	1.0	15.0			0	
08	127	TORN	43 NS	0850.0		300.0		15.0		V=1
	235	CUBA	44 NS	1600.0E		350.0D		7.0		
	280	CUBA	44 NS	1600.0E		350.0D		17.0		
	410	LEAR	8 S	0014.0	0014.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0019.0	0019.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0019.0	0019.0	U	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0020.0	0020.0	1.0	105.0			0
	200	HIRA	8 S	0035.0	0035.0	1.0	35.0			0
	2804	VORO	40 F	0103.8	0106.6	6.8	6.1			
	245	PALE	8 S	0129.0	0130.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0130.0	0130.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0130.0	0131.0	1.0	56.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	0130.0	0130.0	U	73.0			QL=4 ST=2 TYP=8
	500	HIRA	8 S	0131.0	0131.0	1.0	25.0			0
	200	HIRA	8 S	0131.0	0131.0	1.0	190.0			0
	410	LEAR	8 S	0210.0	0211.0	1.0	300.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0214.0	0214.0	U	140.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0259.0	0302.0	5.0	82.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0259.0	0301.0	3.0	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0259.0	0301.0	3.0	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0259.0	0301.0	6.0	20.6			
	1415	LEAR	8 S	0300.0	0301.0	2.0	5.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0300.0	0301.0	2.0	17.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0300.0	0301.0	2.0	40.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0300.0	0301.0	2.0	24.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0300.0	0302.0	4.0	46.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0300.1	0301.1	3.1	19.8			
	500	HIRA	8 S	0301.0	0302.0	3.0	215.0			0
	200	HIRA	8 S	0302.0	0302.0	1.0	20.0			0
	410	PALE	8 S	0356.0	0356.0	U	280.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0357.0	0358.0	1.0	465.0			0
	410	LEAR	8 S	0357.0	0357.0	1.0	370.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0451.0	0451.0	U	440.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0451.0	0451.0	U	33.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0451.0	0451.0	U	230.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0452.0	0452.0	1.0	415.0			0
	2840	PEKG	5 S	0519.0	0521.9	8.0	21.1			
	200	HIRA	8 S	0521.0	0521.0	1.0	10.0			0
	500	HIRA	7 C	0533.0	0534.0	2.0	45.0			0
	245	LEAR	8 S	0548.0	0548.0	1.0	50.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	0549.0	0549.0	1.0	20.0			0	
200	HIRA	8 S	0559.0	0559.0	1.0	15.0			0	
245	LEAR	8 S	0559.0	0559.0	U	83.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0559.0	0559.0	U	60.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	0637.1	0637.5	0.9	9.0				
204	IZMI	7 C	0708.1	0708.2	0.3	11.0				

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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			
08	900	GORK	8 S	0756.8	0757.0	0.5	135.0				
	204	IZMI	41 F	0811.3	0811.6	0.4	16.0				
	204	IZMI	42 SER	0812.9	0813.3	0.5	10.0				
	900	GORK	41 F	0905.3	0906.0		14.0				
	900	GORK	41 F	0905.3	0905.5	1.1	115.0				
	204	IZMI	41 F	0926.5	0926.9	0.9	54.0				
	204	IZMI	42 SER	0943.9	0946.0	2.5	19.0				
	33	UPIC	3 S	0945.0	0945.5	1.0					
	3000	IZMI	5 S	1108.4	1109.1	1.1	8.0	3.7			
	245	SGMR	8 S	1119.0	1119.0	U	51.0			QL=4 ST=2 TYP=3	
	3000	IZMI	7 C	1119.4	1120.0	3.4	20.0	6.9			
	204	IZMI	41 F	1119.5	1119.8	0.6	124.0				
	610	SVTO	8 S	1144.0	1144.0	U	68.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1457.0	1457.0	U	54.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1457.0	1457.0	U	52.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1652.0	1652.0	1.0	280.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1652.0	1652.0	1.0	160.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	1834.0	1834.0	U	250.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1834.0	1834.0	U	210.0			QL=4 ST=2 TYP=3	
	2800	PENT	3 S	1838.0	1847.0	14.0	13.0				
	410	SGMR	8 S	1841.0	1841.0	U	51.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1854.0	1854.0	U	51.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1926.0	1926.0	1.0	320.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1930.0	1930.0	1.0	470.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1930.0	1930.0	U	48.0			QL=4 ST=2 TYP=3	
	200	HIRA	8 S	2127.0	2127.0	1.0	10.0			0	
	500	HIRA	4 S/F	2319.0	2321.0	3.0	45.0			0	
	245	PALE	8 S	2319.0	2319.0	U	29.0			QL=4 ST=2 TYP=3	
	610	PALE	8 S	2319.0	2320.0	1.0	35.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	2320.0	2320.0	U	65.0			QL=4 ST=2 TYP=3	
	09	245	LEAR	43 NS	0202.0	0204.0	376.0	72.0			QL=4 ST=2 TYP=1
		245	PALE	43 NS	0204.0	0328.0	148.0	100.0			QL=4 ST=2 TYP=1
		204	IZMI	43 NS	0600.0		60.0U		15.0		
		127	TORN	44 NS	0630.0E		190.0D		21.0		V=2
		245	SGMR	43 NS	1214.0	1424.0	249.0	230.0			QL=4 ST=2 TYP=1
		235	CUBA	44 NS	1310.0E		110.0D		5.0		
		280	CUBA	44 NS	1310.0E		110.0D		20.0		
		2804	VORO	32 ABS	0010.0	0156.2	290.0	14.7			
		2800	PENT	8 S	0035.0	0040.0	21.0	238.0			
		2840	PEKG	3 S	0036.0	0040.5	19.0	271.0			
410		LEAR	49 GB	0038.0	0039.0	4.0	830.0			QL=4 ST=2 TYP=6	
245		PALE	48 C	0038.0	0042.0	8.0	3700.0			QL=4 ST=2 TYP=8	
245		PALE	48 C	0038.0	0042.0	9.0	3700.0			QL=4 ST=3 TYP=8	
245		PALE	48 C	0038.0	0041.0	1402.0	1700.0			QL=4 ST=3 TYP=8	
410		PALE	49 GB	0038.0	0039.0	1402.0	770.0			QL=4 ST=3 TYP=6	
2804		VORO	4 S/F	0038.9	0040.5	18.1	220.9				
2800		HIRA	3 S	0039.0	0040.0	8.0	255.0			0	
245		LEAR	48 C	0039.0	0043.0	9.0	3100.0			QL=4 ST=3 TYP=8	
1415		LEAR	8 S	0039.0	0040.0	2.0	360.0			QL=4 ST=3 TYP=3	
2695		LEAR	8 S	0039.0	0040.0	2.0	260.0			QL=4 ST=3 TYP=3	
610		LEAR	4 S/F	0039.0	0040.0	3.0	460.0			QL=4 ST=2 TYP=3	
4995		LEAR	4 S/F	0039.0	0040.0	3.0	570.0			QL=4 ST=3 TYP=3	
610		PALE	8 S	0039.0	0039.0	2.0	470.0			QL=4 ST=2 TYP=3	
1415		PALE	8 S	0039.0	0039.0	2.0	400.0			QL=4 ST=3 TYP=3	
2695		PALE	8 S	0039.0	0039.0	2.0	230.0			QL=4 ST=3 TYP=3	
4995		PALE	8 S	0039.0	0040.0	2.0	560.0			QL=4 ST=3 TYP=3	
8800		PALE	4 S/F	0039.0	0040.0	3.0	1000.0			QL=4 ST=3 TYP=3	
15400		PALE	4 S/F	0039.0	0040.0	3.0	1200.0			QL=4 ST=3 TYP=3	
500		HIRA	47 GB	0039.0	0041.0	13.0	785.0			0	
200		HIRA	47 GB	0039.0	0046.0	12.0	1135.0			0	
8800		LEAR	4 S/F	0039.0	0040.0	1401.0	1200.0			QL=4 ST=1 TYP=3	
8800		PALE	4 S/F	0039.0	0040.0	1401.0	1000.0			QL=4 ST=3 TYP=3	
15400		PALE	4 S/F	0039.0	0040.0	1401.0	1200.0			QL=4 ST=3 TYP=3	
15400		LEAR	8 S	0040.0	0040.0	2.0	1200.0			QL=4 ST=3 TYP=3	
8800		LEAR	8 S	0045.0	0045.0	1.0	32.0			QL=4 ST=3 TYP=3	
410		LEAR	8 S	0046.0	0046.0	2.0	85.0			QL=4 ST=3 TYP=3	
610		LEAR	8 S	0046.0	0046.0	U	39.0			QL=4 ST=3 TYP=3	
410		PALE	48 C	0046.0	0046.0	1.0	73.0			QL=4 ST=3 TYP=8	

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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
09	610	PALE	8 S	0046.0	0046.0	U	38.0			QL=4 ST=3 TYP=3
	245	PALE	49 GB	0115.0	0116.0	1.0	770.0			QL=4 ST=2 TYP=6
	410	PALE	48 C	0142.0	0149.0	10.0	81.0			QL=4 ST=3 TYP=8
	410	LEAR	48 C	0147.0	0150.0	4.0	100.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0153.0	0153.0	U	58.0			QL=4 ST=3 TYP=8
	410	LEAR	8 S	0156.0	0157.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0538.0	0538.0	U	660.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0538.0	0538.0	U	44.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0538.0	0538.0	1.0	540.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0538.0	0538.0	U	66.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0539.0	0539.0	1.0	345.0			0
	9100	GORK	3 S	0625.5	0625.8	0.5	115.0			
	500	HIRA	8 S	0641.0	0642.0	1.0	35.0			0
	200	HIRA	8 S	0641.0	0642.0	1.0	15.0			0
	410	LEAR	8 S	0641.0	0641.0	U	55.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0641.0	0641.0	U	37.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0641.0	0641.0	U	58.0			QL=4 ST=3 TYP=3
	610	SVTO	8 S	0641.0	0641.0	U	35.0			QL=4 ST=3 TYP=3
	600	GORK	4 S/F	0641.0	0641.4	0.7	70.0			
	410	SVTO	4 S/F	0642.0	0648.0	8.0	5.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0644.0	0644.0	U	3.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0721.0	0731.0	17.0	33.9			
	2800	HIRA	1 S	0727.0	0731.0	8.0	30.0			0
	2950	GORK	46 C	0727.2	0730.0		25.3			
	2950	GORK	46 C	0727.2	0728.3	7.1	8.1			
	900	GORK	2 S/F	0727.3	0730.1	4.2	4.4			
	204	IZMI	22 GRF	0727.3	0730.7	7.9	28.0	12.0		
	600	GORK	46 C	0727.7	0729.0	1.8	6.6			
	600	GORK	46 C	0727.7	0730.2		25.0			
	9100	GORK	20 GRF	0729.1	0730.1	6.9	11.0			
	9100	GORK	4 S/F	0750.8	0751.0	0.5	150.0			
	204	IZMI	42 SER	0758.0	0758.3	0.7	15.0			
	204	IZMI	42 SER	0918.2	0918.3	0.5	15.0			
	204	IZMI	7 C	0939.4	0939.5	0.2	12.0			
	245	SGMR	8 S	1214.0	1214.0	U	86.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1214.0	1214.5	1.7				
	127	TORN	8 S	1214.4	1214.7	1.2	450.0	220.0		
	4995	SVTO	4 S/F	1258.0	1301.0	8.0	240.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1259.0	1301.0	4.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1259.0	1301.0	5.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1259.0	1301.0	6.0	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1259.0	1301.0	5.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1259.0	1301.0	6.0	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1259.0	1301.0	10.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1259.0	1301.8	5.8	154.0	77.0		
	610	SGMR	8 S	1300.0	1302.0	2.0	82.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1301.0	1301.0	1.0	85.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1301.0	1301.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1301.0	1302.0	1.0	65.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1301.0	1301.0	3.0	89.0			QL=4 ST=2 TYP=3
9500	CUBA	29 PBI	1304.8	1304.8	22.2	25.0	12.0			
245	SVTO	8 S	1343.0	1343.0	U	110.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1420.0	1424.0	4.0	170.0			QL=4 ST=2 TYP=3	
33	UPIC	4 S/F	1420.0	1420.5	1.8					
245	SVTO	8 S	1424.0	1424.0	U	220.0			QL=4 ST=3 TYP=3	
245	PALE	8 S	1725.0	1725.0	U	73.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1732.0	1733.0	2.0	75.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1846.0	1846.0	U	68.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1846.0	1846.0	U	60.0			QL=4 ST=2 TYP=3	
500	HIRA	7 C	2325.0	2331.0	8.0	25.0			0	
410	LEAR	8 S	2330.0	2330.0	1.0	91.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2330.0	2330.0	2.0	100.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2331.0	2331.0	U	55.0			QL=4 ST=2 TYP=3	
10	245	PALE	43 NS	0153.0	0208.0	62.0	89.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0155.0	0159.0	79.0	71.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		15.0		V=1
	204	IZMI	43 NS	0809.0		84.0		20.0		
	245	LEAR	43 NS	0854.0	0854.0	47.0	60.0			QL=4 ST=2 TYP=1

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	235	CUBA	44 NS	1310.0E		520.0D		8.0		
	280	CUBA	44 NS	1310.0E		520.0D		19.0		
	245	PALE	43 NS	2032.0	2112.0	398.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2047.0	2138.0	88.0	100.0			QL=4 ST=2 TYP=1
	410	PALE	8 S	0006.0	0006.0	U	53.0			QL=4 ST=2 TYP=3
	2804	VORO	1 S	0007.5	0009.4	3.9	3.7			
	2800	PENT	40 F	0022.0	0059.0	46.0	58.0			
	2804	VORO	1 S	0028.8	0029.2	1.2	4.0			
	2840	PEKG	3 S	0040.0	0059.5	24.0	60.3			
	2804	VORO	46 C	0042.2	0049.8	25.4	61.8			
	2800	HIRA	7 C	0043.0	0100.0	19.0	150.0			0
	500	HIRA	7 C	0044.0	0056.0	19.0	20.0			0
	1415	LEAR	8 S	0048.0	0049.0	1.0	94.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0048.0	0050.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0107.0	0107.0	U	59.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0148.0	0150.0	8.0	80.0			0
	410	PALE	8 S	0254.0	0254.0	1.0	54.0			QL=4 ST=2 TYP=3
	2800	HIRA	8 S	0305.0	0306.0	2.0	65.0			0
	500	HIRA	8 S	0305.0	0306.0	2.0	10.0			0
	200	HIRA	8 S	0305.0	0306.0	2.0	190.0			0
	2804	VORO	46 C	0421.7	0424.8	8.3	34.2			
	2840	PEKG	45 C	0422.0	0424.8	10.0	26.9			
	500	HIRA	4 S/F	0423.0	0424.0	5.0	40.0			0
	2800	HIRA	1 S	0424.0	0425.0	4.0	35.0			0
	1415	LEAR	8 S	0424.0	0426.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0510.0	0510.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0510.0	0510.0	U	62.0			QL=4 ST=2 TYP=3
	600	GORK	46 C	0548.0	0548.2	1.1	12.0			
	600	GORK	46 C	0548.0	0548.3		15.0			
	600	GORK	40 F	0549.7	0551.5	2.3	10.0			
	900	GORK	40 F	0633.5	0634.2	1.2	7.3			
	204	IZMI	7 C	0633.8	0633.8	0.1	7.0			
	2840	PEKG	45 C	0640.0	0649.5	23.0	14.5			
	3000	IZMI	22 GRF	0645.2	0656.3	15.4	24.0	5.0		
	9100	GORK	20 GRF	0647.2	0653.6	14.3	13.0			
	410	LEAR	8 S	0648.0	0648.0	U	77.0			QL=4 ST=2 TYP=3
	600	GORK	1 S	0649.3	0649.7	0.7	6.0			
	900	GORK	46 C	0655.9	0656.2	3.4	9.8			
	900	GORK	46 C	0655.9	0656.5		15.0			
	1415	LEAR	8 S	0656.0	0656.0	U	59.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0656.0	0656.0	1.0	64.0			QL=4 ST=2 TYP=3
	600	GORK	40 F	0656.3	0657.9	2.3	11.0			
	245	LEAR	8 S	0742.0	0742.0	1.0	80.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0742.3	0742.6	2.0	16.0			
	2950	GORK	40 F	0756.1	0756.3	0.9	9.0			
	245	LEAR	8 S	0759.0	0759.0	U	500.0			QL=4 ST=2 TYP=3
	600	GORK	40 F	0817.8	0822.4		7.3			
	600	GORK	40 F	0817.8	0821.9	10.0	17.0			
	410	LEAR	8 S	0821.0	0821.0	U	60.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0827.6	0829.0		28.0			
900	GORK	41 F	0827.6	0828.4		15.0				
900	GORK	41 F	0827.6	0827.8	1.5	8.5				
600	GORK	46 C	0834.9	0835.5	1.1	11.0				
600	GORK	46 C	0834.9	0835.8		11.0				
900	GORK	4 S/F	0835.1	0835.5	1.1	26.0				
900	GORK	46 C	0837.7	0838.2	2.0	33.0				
600	GORK	46 C	0837.7	0838.2	1.9	12.0				
600	GORK	46 C	0837.7	0839.3		17.0				
900	GORK	46 C	0837.7	0838.7		20.0				
245	LEAR	8 S	0842.0	0842.0	U	62.0			QL=4 ST=2 TYP=3	
600	GORK	2 S/F	0845.1	0845.9	1.4	11.0				
900	GORK	41 F	0937.3	0938.0	1.9	12.0				
900	GORK	41 F	0937.3	0939.0		11.0				
900	GORK	41 F	0937.3	0938.5		8.5				
600	GORK	40 F	0939.4	0939.9	0.7	11.0				
900	GORK	40 F	0957.2	0958.2	1.3	9.8				
900	GORK	41 F	1002.1	1003.0		6.1				
900	GORK	41 F	1002.1	1002.2	1.0D	23.0				
1415	SVTO	48 C	1226.0	1229.0	7.0	150.0			QL=4 ST=3 TYP=8	

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

APRIL 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
10	2695	SGMR	48 C	1226.0	1228.0	17.0	530.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1226.0	1230.0	17.0	950.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1226.0	1228.0	17.0	1200.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1226.0	1228.0	10.0	510.0			QL=4 ST=3 TYP=8
	4995	SVTO	48 C	1226.0	1230.0	11.0	910.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1226.0	1230.0	11.0	910.0			QL=4 ST=3 TYP=8
	8800	SVTO	48 C	1226.0	1228.0	12.0	1100.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1226.0	1228.0	12.0	1100.0			QL=4 ST=3 TYP=8
	8800	SVTO	49 GB	1226.0	1228.0	12.0	1100.0			QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	1226.0	1229.0	11.0	190.0			QL=4 ST=2 TYP=3
	33	UPIC	32 ABS	1226.0	1234.0	54.0				
	127	TORN	48 C	1226.0	1231.2	20.0	500.0	20.0		
	1415	SVTO	48 C	1227.0	1229.0	6.0	150.0			QL=4 ST=2 TYP=8
	2695	SVTO	49 GB	1227.0	1228.0	9.0	510.0			QL=4 ST=2 TYP=6
	1415	SGMR	48 C	1227.0	1230.0	16.0	150.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1227.0	1228.0	16.0	780.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1227.0	1228.0	10.0	740.0			QL=4 ST=3 TYP=8
	410	SVTO	48 C	1228.0	1230.0	5.0	160.0			QL=4 ST=3 TYP=8
	610	SVTO	48 C	1228.0	1229.0	9.0	190.0			QL=4 ST=3 TYP=8
	610	SGMR	48 C	1228.0	1229.0	15.0	65.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	1229.0	1233.0	8.0	280.0			QL=4 ST=3 TYP=8
	410	SVTO	4 S/F	1229.0	1230.0	4.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1229.0	1233.0	14.0	410.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1229.0	1230.0	14.0	100.0			QL=4 ST=2 TYP=8
	127	TORN	47 GB	1230.0	1231.2	10.0	500.0	190.0		
	33	UPIC	46 C	1231.0	1232.0	2.0				
	15400	SVTO	49 GB	1237.0	1237.0		52.0			QL=4 ST=2 TYP=6
	33	UPIC	48 C	1244.0	1245.0	10.0				
	610	SGMR	4 S/F	1301.0	1302.0	3.0	190.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1301.0	1302.0	3.0	270.0			QL=4 ST=3 TYP=8
	610	SVTO	48 C	1302.0	1302.0		270.0			QL=4 ST=2 TYP=8
	410	SGMR	8 S	1305.0	1305.0		33.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1848.0	1850.0	6.0	16.0			
	610	PALE	48 C	1853.0	1856.0	6.0	160.0			QL=4 ST=3 TYP=8
	610	SGMR	48 C	1853.0	1856.0	4.0	170.0			QL=4 ST=2 TYP=8
	2800	PENT	49 GB	1857.0	1903.0	33.0	438.0			
	610	SGMR	8 S	1858.0	1859.0	1.0	89.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1901.0	1902.0	14.0	610.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1901.0	1903.0	14.0	490.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1901.0	1903.0	14.0	380.0			QL=4 ST=2 TYP=8
	235	CUBA	27 RF	1901.0E	2150.0	169.0D	30.0	15.0		
	280	CUBA	27 RF	1901.0	2150.0	169.0	45.0	22.0		
	235	CUBA	7 C	1901.6	1903.2	2.1	13.0	7.0		
	280	CUBA	7 C	1901.6	1903.9	2.9	410.0	205.0		
	610	SGMR	48 C	1902.0	1903.0	12.0	330.0			QL=4 ST=2 TYP=8
1415	SGMR	48 C	1902.0	1903.0	12.0	300.0			QL=4 ST=2 TYP=8	
245	SGMR	49 GB	1902.0	1902.0	13.0	7700.0			QL=4 ST=2 TYP=6	
8800	SGMR	4 S/F	1902.0	1904.0	13.0	320.0			QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1902.0	1904.0	13.0	180.0			QL=4 ST=2 TYP=3	
9500	CUBA	4 S/F	1902.0	1904.1	5.1	215.0	107.0			
9500	CUBA	29 PBI	1907.1	1907.1	13.7	29.0	14.0			
245	SGMR	8 S	1959.0	1959.0	1.0	420.0			QL=4 ST=2 TYP=3	
235	CUBA	7 C	2140.7	2141.3	1.2	54.0	27.0			
280	CUBA	7 C	2140.7	2141.3	1.2	146.0	73.0			
11	245	LEAR	43 NS	0016.0	0056.0	287.0	130.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0016.0	0056.0	1424.0	130.0			QL=4 ST=3 TYP=1
	410	PALE	43 NS	0040.0	0056.0	40.0	85.0			QL=4 ST=2 TYP=1
	410	LEAR	43 NS	0043.0	0056.0	96.0	84.0			QL=4 ST=3 TYP=1
	410	LEAR	43 NS	0043.0	0056.0	1397.0	84.0			QL=4 ST=3 TYP=1
	235	CUBA	44 NS	1305.0E		415.0D		5.0		
	280	CUBA	44 NS	1305.0E		415.0D		15.0		
	2840	PEKG	1 S	0044.0	0046.3	7.0	5.2			
	2804	VORO	2 S/F	0044.7	0046.6	4.7	6.5			
	2804	VORO	4 S/F	0137.1	0139.8	8.4	72.2			
	2840	PEKG	3 S	0144.0	0149.8	15.0	13.5			
	1415	LEAR	8 S	0148.0	0149.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0148.0	0149.0	2.0	66.0			QL=4 ST=2 TYP=3
4995	LEAR	8 S	0148.0	0149.0	2.0	99.0			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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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
11	8800	LEAR	8 S	0148.0	0149.0	2.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0148.0	0149.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	PALE	48 C	0148.0	0149.0	2.0	67.0			QL=4 ST=2 TYP=8
	2695	PALE	8 S	0148.0	0149.0	2.0	68.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0148.0	0149.0	2.0	130.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0148.0	0149.0	3.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0149.0	0149.0	1.0	64.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0304.0	0306.3	9.0	82.1			
	2695	PALE	8 S	0305.0	0306.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0305.0	0306.0	1.0	61.0			QL=4 ST=2 TYP=3
	2804	VORO	4 S/F	0305.6	0306.4	1.8	60.8			
	245	LEAR	8 S	0306.0	0306.0	U	270.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0306.0	0306.0	U	26.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0306.0	0306.0	U	52.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0306.0	0306.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0402.0	0402.0	U	120.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0756.6	0756.7	3.4	11.0			
	900	GORK	41 F	0756.6	0759.8		9.3			
	204	IZMI	7 C	0824.1	0824.1	0.2	14.0			
	204	IZMI	42 SER	0824.9	0825.4	1.3	127.0			
	2840	PEKG	1 S	0840.0	0843.1	7.0	4.8			
	900	GORK	2 S/F	0952.8	0953.2	0.8	11.0			
	2800	PENT	3 S	1613.0	1620.0	19.0U	87.0			
2695	SGMR	8 S	1619.0	1620.0	2.0	95.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	1619.0	1620.0	2.0	87.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2300.0	2301.0	1.0	20.0			0	
12	245	LEAR	43 NS	0502.0	0634.0	192.0	230.0			QL=4 ST=2 TYP=1
	410	LEAR	43 NS	0505.0	0534.0	98.0	84.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		156.0		35.0		
	235	CUBA	44 NS	1315.0E		405.0D		7.0		
	280	CUBA	44 NS	1315.0E		405.0D		17.0		
	245	SGMR	43 NS	2116.0	2215.0	59.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2145.0	2146.0	135.0	89.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2251.0	0208.0	225.0	110.0			QL=4 ST=3 TYP=1
	2804	VORO	41 F	0306.4	0309.0	3.6	2.5			
	2804	VORO	41 F	0306.4	0306.5	0.9	3.2			
	2840	PEKG	3 S	0442.0	0454.6	26.0	139.4			
	200	HIRA	42 SER	0448.0	0448.0	8.0	25.0			0
	2800	HIRA	3 S	0448.0	0454.0	14.0	125.0			0
	500	HIRA	7 C	0448.0	0454.0	32.0	170.0			0
	200	HIRA	21 GRF	0448.0	0609.0	127.0	40.0			0
	410	LEAR	48 C	0451.0	0453.0	3.0	87.0			QL=4 ST=2 TYP=8
	2695	LEAR	4 S/F	0451.0	0453.0	5.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	48 C	0452.0	0453.0	5.0	210.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0452.0	0454.0	4.0	70.0			QL=4 ST=2 TYP=8
	4995	LEAR	8 S	0453.0	0454.0	2.0	85.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0453.0E	0454.0U	5.0D	170.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0453.0E	0455.0U	4.0D	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0453.0E	0454.0U	5.0D	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0454.0E	0454.0U	3.0D	77.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0457.0E	0457.0U	1.0D	47.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0458.0	0458.0	U	52.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	0458.0E	0458.0U	U	45.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0558.0	0558.0	1.0	30.0			0
	204	IZMI	7 C	0600.9	0600.9	0.2	38.0			
	15400	LEAR	8 S	0858.0	0858.0	U	77.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0946.2	0947.1	1.7	8.0			
	900	GORK	41 F	0946.2	0947.7		8.0			
	600	GORK	41 F	0946.8	0947.2	1.2	14.0			
	600	GORK	41 F	0946.8	0947.9		5.1			
	9100	GORK	5 S	0955.4	0957.5	4.3	11.0			
	600	GORK	8 S	1025.1	1025.2	0.3	16.0			
	900	GORK	2 S/F	1027.8	1029.2	4.0	7.0			
600	GORK	40 F	1027.8	1028.2	3.2	70.0				
245	SVTO	8 S	1028.0	1028.0	U	140.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1028.0	1028.0	2.0	400.0			QL=4 ST=2 TYP=3	
2950	GORK	3 S	1028.0	1028.2	0.6	28.0				
204	IZMI	42 SER	1028.1	1028.2	2.8	76.0				

S O L A R R A D I O E M I S S I O N
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APRIL 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
12	3000	IZMI	20 GRF	1028.1	1028.2	0.6	24.0	5.0		
	204	IZMI	7 C	1159.6	1159.7	0.2	14.0			
	2695	SGMR	48 C	1308.0	1309.0	4.0	81.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1308.0	1308.0	4.0	140.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1308.0	1308.0	4.0	150.0			QL=4 ST=2 TYP=8
	15400	SGMR	46 C	1308.0	1308.0	4.0	49.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1308.0	1309.0	4.0	61.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1308.0	1309.0	2.0	68.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1308.0	1309.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1308.0	1309.0	2.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1308.0	1309.0	2.0	49.0			QL=4 ST=2 TYP=3
	9500	CUBA	45 C	1308.6	1309.0	3.4	98.0	49.0		
	1415	SGMR	46 C	1309.0	1310.0	3.0	37.0			QL=4 ST=2 TYP=8
	410	SGMR	8 S	1309.0	1309.0					QL=4 ST=2 TYP=3
	610	SVTO	8 S	1309.0	1309.0			87.0		QL=4 ST=2 TYP=3
	2800	PENT	24 R	1451.0	1600.0	100.0U	32.0			
	4995	SGMR	4 S/F	1559.0	1600.0	3.0	84.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1559.0	1600.0	3.0	75.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1559.0	1600.0	3.0	58.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1600.0	1600.0	2.0	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1600.0	1600.0			69.0		QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1609.8	1610.1	2.1	52.0	26.0		
	2800	PENT	3 S	1729.0	1756.0	123.0U	70.0			
	9500	CUBA	22 GRF	1730.0	1756.0	77.0	55.0	27.0		
	410	SGMR	48 C	1741.0	1741.0	1.0	59.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1741.0	1756.0	41.0	94.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1743.0	1756.0	22.0	94.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1743.0	1807.0	43.0	58.0			QL=4 ST=2 TYP=8
	610	SGMR	46 C	1744.0	1744.0	1.0	44.0			QL=4 ST=2 TYP=8
	4995	PALE	46 C	1745.0	1747.0	2.0	42.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1746.0	1747.0	1.0	65.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1752.0	1756.0	5.0	58.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1825.0	1826.0	1.0	70.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1825.0	1825.0			27.0		QL=4 ST=2 TYP=3
410	SGMR	8 S	1947.0	1947.0			63.0		QL=4 ST=2 TYP=3	
410	SGMR	8 S	2038.0	2038.0			78.0		QL=4 ST=2 TYP=3	
13	280	CUBA	44 NS	1330.0E		500.0D		16.0		
	410	SGMR	43 NS	2035.0	2041.0	6.0	87.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2035.0	2041.0	205.0	87.0			QL=4 ST=1 TYP=1
	410	SGMR	43 NS	2035.0	2041.0	205.0	87.0			QL=4 ST=3 TYP=1
	245	SGMR	43 NS	2131.0	2212.0	41.0	360.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2145.0	0308.0	408.0	100.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0413.0	0413.0		61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0458.0	0458.0		100.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0458.0	0458.0		90.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0519.0	0519.0		140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0519.0	0519.0		88.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0648.1	0652.4	4.7	38.0			
	245	SVTO	8 S	0650.0	0650.0		59.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0901.8	0903.9	3.6	8.0			
	900	GORK	42 SER	0908.4	0958.0		9.0			
	900	GORK	42 SER	0908.4	0919.3	50.4	12.0			
	9100	GORK	1 S	0935.2	0936.0	3.8	6.5			
	3000	IZMI	7 C	1009.6	1011.6	3.0	11.0	5.0		
	9100	GORK	20 GRF	1010.0	1012.0	7.2	8.1			
	2950	GORK	1 S	1010.0	1011.7	3.3	9.1			
	204	IZMI	7 C	1010.4	1010.4	0.1	6.0			
	3000	IZMI	20 GRF	1025.9	1104.9	71.1	12.0	6.0		
	9100	GORK	1 S	1051.8	1052.0	0.6	9.6			
	9500	CUBA	2 S/F	1333.8	1335.3	3.0	14.0	7.0		
410	SGMR	8 S	1501.0	1501.0		90.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2035.0	2035.0		60.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2041.0	2041.0		130.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2131.0	2131.0		56.0			QL=4 ST=2 TYP=3	
500	HIRA	8 S	2132.0	2132.0	1.0	30.0			0	
500	HIRA	8 S	2135.0	2135.0	1.0	25.0			0	
2800	PENT	29 PBI	2154.0	2201.0	38.0U	8.0				
200	HIRA	8 S	2213.0	2213.0	1.0	200.0			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
13	245	LEAR	8 S	2339.0	2339.0	U	79.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	2353.0	2420.0	47.0	16.0			
14	235	CUBA	44 NS	1330.0E		390.0D		9.0		
	280	CUBA	44 NS	1330.0E		390.0D		19.0		
	245	SGMR	43 NS	1450.0	1607.0	220.0	170.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1639.0	1639.0	25.0	94.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1658.0	1806.0	107.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2041.0	0356.0	473.0	800.0			QL=4 ST=2 TYP=1
	410	LEAR	43 NS	2351.0	2351.0	9.0	61.0			QL=4 ST=3 TYP=1
	245	LEAR	8 S	0050.0	0050.0	U	370.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0050.0	0050.0	1.0	420.0			QL=4 ST=2 TYP=3
	2804	VORO	23 GRF	0315.5	0338.7	72.2	10.1			
	2840	PEKG	45 C	0320.0	0324.7	9.0	18.4			
	2804	VORO	45 C	0322.9	0324.7	3.8	14.4			
	4995	LEAR	8 S	0323.0	0324.0	2.0	59.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0324.0	0324.0	1.0	36.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0324.0	0324.0	1.0	47.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0404.0	0405.0	2.0	62.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	0405.0	0405.0	U	51.0			QL=4 ST=2 TYP=8
	2840	PEKG	45 C	0448.0	0451.5	11.0	58.3			
	2800	HIRA	3 S	0449.0	0451.0	4.0	55.0			0
	245	LEAR	8 S	0449.0	0449.0	U	51.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0449.0	0451.0	3.0	100.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0449.2	0451.4	3.9	34.6			
	4995	LEAR	8 S	0450.0	0451.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0450.0	0451.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0450.0	0451.0	1.0	43.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0450.0	0451.0	2.0	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0450.0	0451.0	4.0	84.0			QL=2 ST=2 TYP=3
	2840	PEKG	5 S	0534.0	0536.6	8.0	44.6			
	2800	HIRA	3 S	0536.0	0537.0	3.0	45.0			0
	500	HIRA	8 S	0536.0	0536.0	1.0	25.0			0
	410	LEAR	8 S	0536.0	0536.0	U	140.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	0536.1	0536.6	1.5	21.0			
	2950	GORK	4 S/F	0536.2	0536.7	6.0	54.0			
	600	GORK	46 C	0536.3	0536.7	1.1	31.0			
	900	GORK	2 S/F	0536.3	0536.9	2.1	6.7			
	600	GORK	46 C	0536.3	0536.9		26.0			
	204	IZMI	7 C	0633.2	0633.3	0.2	6.0			
	204	IZMI	42 SER	0641.3	0641.3	0.4	16.0			
	2840	PEKG	3 S	0649.0	0652.6	8.0	23.2			
	8800	SVTO	8 S	0651.0	0652.0	1.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0651.2	0652.4		100.0			
	9100	GORK	46 C	0651.2	0651.8	3.0	47.0			
	3000	IZMI	7 C	0651.5	0652.5	1.8	31.0	9.0		
	2950	GORK	4 S/F	0651.7	0652.5	2.3	25.0			
	4995	LEAR	8 S	0652.0	0652.0	U	54.0			QL=4 ST=3 TYP=3
	8800	LEAR	8 S	0652.0	0652.0	U	100.0			QL=4 ST=3 TYP=3
	15400	LEAR	8 S	0652.0	0652.0	U	53.0			QL=4 ST=3 TYP=3
	4995	SVTO	8 S	0652.0	0652.0	U	53.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0652.0	0652.0	U	47.0			QL=4 ST=2 TYP=3
	9100	GORK	29 PBI	0654.2	0654.2	9.8	8.2			
	600	GORK	2 S/F	0654.3	0654.6	0.6	13.0			
	245	LEAR	8 S	0727.0	0728.0	1.0	940.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	0728.0	0728.0	1.0	360.0			0	
245	SVTO	49 GB	0728.0	0728.0	U	670.0			QL=4 ST=2 TYP=6	
204	IZMI	42 SER	0728.1	0729.2	4.8	46.0				
3000	IZMI	22 GRF	0729.2	0736.8	19.6	11.0	2.0			
245	LEAR	8 S	0730.0	0730.0	U	130.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0730.0	0730.0	U	110.0			QL=4 ST=2 TYP=3	
600	GORK	42 SER	0730.0	0730.4	15.0	4.5				
600	GORK	42 SER	0730.0	0736.5		5.6				
245	LEAR	8 S	0734.0	0734.0	1.0	1500.0			QL=4 ST=2 TYP=3	
410	LEAR	8 S	0734.0	0734.0	1.0	140.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0734.0	0734.0	1.0	1200.0			QL=4 ST=3 TYP=6	
410	SVTO	8 S	0734.0	0735.0	1.0	360.0			QL=4 ST=2 TYP=3	
2840	PEKG	1 S	0734.0	0737.1	6.0	9.4				
204	IZMI	46 C	0734.4	0735.2	3.0	558.0				

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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)	Mean	Int	Remarks
14	2950	GORK	1 S	0734.7	0736.7	4.1	8.8			
	200	HIRA	8 S	0735.0	0735.0	2.0	285.0			0
	9100	GORK	22 GRF	0736.2	0741.5		8.0			
	9100	GORK	22 GRF	0736.2	0736.9	9.0	13.0			
	900	GORK	8 S	0738.5	0738.7	0.4	16.0			
	245	LEAR	8 S	0740.0	0740.0	U	70.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0740.5	0741.1	1.3	22.0			
	33	UPIC	46 C	0746.5	0748.0	13.0				
	204	IZMI	42 SER	0846.1	0846.9	1.2	31.0			
	900	GORK	41 F	1004.6	1007.3		13.0			
	900	GORK	41 F	1004.6	1004.8	3.2	11.0			
	900	GORK	41 F	1004.6	1005.8		29.0			
	9500	CUBA	2 S/F	1338.3	1339.1	2.6	15.0	7.0		
	245	SGMR	8 S	1450.0	1450.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1519.0	1519.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1532.0	1532.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1538.0	1538.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1601.0	1601.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1606.0	1606.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1612.0	1612.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1639.0	1639.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1650.0	1650.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1913.0	1913.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1913.0	1913.0	U	67.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	2045.0	2054.0	49.0	11.0			
	245	SGMR	48 C	2141.0	2141.0	U	55.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	2154.0	2200.0	8.0	110.0			QL=4 ST=2 TYP=8
	410	SGMR	8 S	2200.0	2200.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	2221.0	2223.0	5.0	80.0			QL=4 ST=2 TYP=8
	2800	PENT	1 S	2222.0	2225.0	6.0	8.0			
	245	LEAR	48 C	2253.0	2255.0	5.0	120.0			QL=4 ST=3 TYP=8
	410	LEAR	48 C	2253.0	2253.0	U	52.0			QL=4 ST=3 TYP=8
	410	PALE	8 S	2253.0	2253.0	U	60.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	2305.0	2311.0	7.0	150.0			QL=4 ST=2 TYP=8
410	LEAR	8 S	2311.0	2311.0	1.0	480.0			QL=4 ST=2 TYP=3	
500	HIRA	8 S	2312.0	2312.0	1.0	40.0				
245	PALE	8 S	2312.0	2312.0	U	210.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2312.0	2312.0	U	900.0			QL=4 ST=2 TYP=3	
2800	PENT	3 S	2332.0	2410.0	67.0	57.0				
15	410	PALE	43 NS	0014.0	0047.0	127.0	140.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	0352.0	0358.0	42.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0432.0	0712.0U	197.0	110.0			QL=4 ST=3 TYP=1
	204	IZMI	43 NS	0600.0		360.0D		40.0		
	127	TORN	44 NS	0900.0E		380.0D		95.0		V=2
	245	SGMR	43 NS	1043.0	1120.0	797.0	530.0			QL=4 ST=3 TYP=1
	410	SVTO	43 NS	1142.0	1142.0	162.0	300.0			QL=4 ST=3 TYP=1
	235	CUBA	44 NS	1305.0E		355.0D		32.0		
	280	CUBA	44 NS	1305.0E		355.0D		69.0		
	410	PALE	43 NS	1729.0	1756.0	30.0	74.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1747.0	1756.0	28.0	65.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	2208.0	2217.0	220.0	80.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2252.0	0108.0	154.0	230.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2313.0	0105.0	47.0	250.0			QL=4 ST=3 TYP=1
	410	LEAR	43 NS	2351.0	0025.0	309.0	100.0			QL=4 ST=2 TYP=1
	1415	LEAR	48 C	0000.0	0004.0	5.0	780.0			QL=4 ST=2 TYP=8
	2800	HIRA	7 C	0000.0	0011.0	16.0	55.0			
	8800	PALE	48 C	0000.0	0006.0	26.0	210.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0000.0	0006.0	52.0	150.0			QL=4 ST=2 TYP=8
	2804	VORO	45 C	0000.0	0005.9	17.5	61.5			
	2840	PEKG	45 C	0000.0	0005.9	20.0	56.9			
	8800	LEAR	48 C	0001.0	0006.0	10.0	160.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0002.0	0005.0	9.0	100.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	0003.0	0010.0	12.0	120.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0006.0	0024.0	22.0	260.0			QL=4 ST=2 TYP=8
	2695	LEAR	8 S	0010.0	0010.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	PALE	46 C	0010.0	0010.0	1.0	43.0			QL=4 ST=2 TYP=8
15400	PALE	48 C	0010.0	0010.0	1.0	75.0			QL=4 ST=2 TYP=8	
610	LEAR	46 C	0031.0	0031.0	1.0	31.0			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		
15	2804	VORO	28 PRE	0247.4	0250.4	12.6	3.4			
	500	HIRA	7 C	0255.0	0331.0	60.0	245.0			
	2804	VORO	46 C	0300.0	0314.6	50.0	41.0			
	1415	PALE	48 C	0304.0	0314.0	27.0	180.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0304.0	0314.0	33.0	280.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0304.0	0314.0	42.0	220.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0306.0	0314.0	14.0	160.0			QL=4 ST=2 TYP=8
	2840	PEKG	45 C	0310.0E	0316.8	15.0D	17.2			
	2695	PALE	46 C	0313.0	0314.0	4.0	43.0			QL=4 ST=2 TYP=8
	2695	LEAR	46 C	0314.0	0314.0	2.0	37.0			QL=4 ST=2 TYP=8
	4995	PALE	46 C	0314.0	0314.0	2.0	44.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	0318.0	0318.0		510.0		U	QL=2 ST=2 TYP=8
	410	LEAR	48 C	0322.0	0323.0	4.0	140.0			QL=2 ST=2 TYP=8
	410	LEAR	48 C	0322.0	0332.0	16.0	170.0			QL=2 ST=2 TYP=8
	200	HIRA	8 S	0325.0	0326.0	1.0	50.0			
	2840	PEKG	45 C	0326.0	0330.8	8.0	6.8			
	410	PALE	48 C	0329.0	0339.0	17.0	180.0			QL=2 ST=2 TYP=8
	245	PALE	48 C	0334.0	0346.0	18.0	830.0			QL=2 ST=2 TYP=8
	245	LEAR	48 C	0344.0	0346.0	9.0	530.0			QL=2 ST=2 TYP=8
	204	IZMI	42 SER	0711.8	0712.5	1.7	11.0			
	245	LEAR	8 S	0712.0	0712.0		140.0		U	QL=4 ST=2 TYP=3
	900	GORK	2 S/F	0835.6	0836.0	0.6	12.0			
	245	LEAR	49 GB	0849.0	0852.0	4.0	1300.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0849.0	0851.0	3.0	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0849.0	0851.0	4.0	1800.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0851.0	0852.0	2.0	1400.0			QL=4 ST=2 TYP=6
	204	IZMI	42 SER	0851.3	0851.4	0.7	3142.0			
	204	IZMI	42 SER	0852.7	0852.9	0.7	7000.0			
	245	SVTO	8 S	0906.0	0906.0	1.0	55.0			QL=4 ST=3 TYP=3
	900	GORK	41 F	0925.7	0926.4		18.0			
	900	GORK	41 F	0925.7	0925.9	1.1	26.0			
	245	LEAR	48 C	0947.0	0947.0	2.0	74.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	0952.0	0952.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0952.0	0952.0	2.0	490.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0952.3	0952.3	1.8	333.0			
	245	SVTO	48 C	1029.0	1029.0	1.0	54.0			QL=4 ST=3 TYP=8
	245	SVTO	8 S	1029.0	1029.0	1.0	54.0			QL=4 ST=3 TYP=3
	204	IZMI	25 R	1051.0		45.0		170.0		
	610	SVTO	8 S	1106.0	1107.0	1.0	100.0			QL=4 ST=3 TYP=3
	610	SVTO	8 S	1106.0	1107.0	1.0	180.0			QL=4 ST=3 TYP=3
	245	SVTO	49 GB	1119.0	1120.0	1.0	550.0			QL=4 ST=2 TYP=6
	127	TORN	4 S/F	1119.1	1119.6	1.1	370.0		170.0	DISTURBED
	410	SGMR	48 C	1139.0	1142.0	3.0	200.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	1142.7	1142.9	0.3	419.0			
	2800	PENT	3 S	1733.0	1741.0	26.0	36.0			
	245	SGMR	4 S/F	1741.0	1743.0	6.0	320.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1741.0	1742.0	6.0	68.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1741.0	1744.0	3.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1741.0	1743.0	4.0	34.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1742.0	1742.0	2.0	26.0			QL=4 ST=2 TYP=3
4995	SGMR	8 S	1743.0	1743.0	1.0	24.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1924.0	1925.0	1.0	94.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1924.0	1924.0	1.0	71.0			QL=4 ST=2 TYP=3	
410	PALE	48 C	2105.0	2107.0	5.0	51.0			QL=4 ST=2 TYP=8	
410	PALE	8 S	2115.0	2115.0		220.0		U	QL=4 ST=2 TYP=3	
2840	PEKG	3 S	2306.0	2311.8	20.0	41.2				
2800	HIRA	1 S	2309.0	2312.0	7.0	30.0			0	
2804	VORO	42 SER	2309.4	2321.4	12.0	7.1				
2804	VORO	42 SER	2309.4	2311.8	9.1	28.7				
15400	PALE	48 C	2310.0	2311.0	3.0	63.0			QL=4 ST=2 TYP=8	
4995	PALE	8 S	2310.0	2311.0	2.0	62.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2310.0	2311.0	2.0	100.0			QL=4 ST=2 TYP=3	
2695	PALE	46 C	2311.0	2311.0		31.0		U	QL=4 ST=2 TYP=8	
410	PALE	48 C	2347.0	2426.0	41.0	110.0			QL=4 ST=2 TYP=8	
1415	PALE	48 C	2359.0	2405.0	7.0	1200.0			QL=4 ST=2 TYP=8	
16	245	LEAR	43 NS	0423.0	0512.0	179.0	540.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	0430.0	0511.0U	172.0	240.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D			70.0	

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APRIL 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
16	127	TORN	44 NS	0630.0E		510.0D		340.0		V=1
	245	SGMR	43 NS	1327.0	1515.0	190.0	290.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1646.0	1802.0	709.0	450.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1713.0	1802.0	146.0	350.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1900.0E		170.0D		55.0		
	280	CUBA	44 NS	1900.0E		170.0D		59.0		
	245	SGMR	43 NS	2006.0	2209.0	169.0	290.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2247.0	0010.0	666.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2252.0	0108.0	154.0	230.0			QL=4 ST=3 TYP=1
	245	LEAR	8 S	0108.0	0108.0	U	230.0			QL=4 ST=3 TYP=3
	200	HIRA	8 S	0114.0	0115.0	2.0	25.0			0
	245	LEAR	8 S	0126.0	0126.0	U	160.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0214.0	0214.0	1.0	255.0			WL
	245	LEAR	8 S	0214.0	0214.0	U	130.0			QL=2 ST=3 TYP=3
	200	HIRA	8 S	0336.0	0336.0	1.0	200.0			WL
	410	LEAR	8 S	0505.0	0505.0	U	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0505.0	0505.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0801.0	0801.0	1.0	290.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0801.0	0801.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0911.0	0911.0	U	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1002.0	1002.0	U	260.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1005.0	1009.0	6.0	160.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1008.0	1009.0	1.0	150.0			QL=4 ST=3 TYP=3
	410	SVTO	48 C	1021.0	1044.0	23.0	800.0			QL=2 ST=2 TYP=8
	3000	IZMI	22 GRF	1039.4	1043.3	7.7	28.0	8.9		
	4995	SVTO	8 S	1041.0	1043.0	2.0	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1041.0	1043.0	2.0	61.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1041.0	1043.0	4.0	300.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1041.0	1043.0	3.0	53.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1041.5	1042.0	1.0				
	610	SGMR	8 S	1043.0	1044.0	1.0	250.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1043.0	1043.0	U	33.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1043.0	1043.0	U	41.0			QL=4 ST=2 TYP=3
	245	SGMR	46 C	1044.0	1046.0	2.0	29.0			QL=4 ST=2 TYP=8
410	SGMR	48 C	1044.0	1044.0	2.0	550.0			QL=4 ST=2 TYP=8	
204	IZMI	46 C	1045.8	1045.9	3.8	171.0				
15400	SVTO	48 C	1306.0	1310.0	9.0	72.0			QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1306.0	1311.0	16.0	66.0			QL=4 ST=2 TYP=8	
8800	SGMR	48 C	1306.0	1311.0	17.0	110.0			QL=4 ST=2 TYP=8	
15400	SGMR	48 C	1306.0	1311.0	17.0	68.0			QL=4 ST=2 TYP=8	
2695	SGMR	46 C	1310.0	1311.0	1.0	30.0			QL=4 ST=1 TYP=8	
245	SGMR	46 C	1315.0	1319.0	8.0	32.0			QL=4 ST=2 TYP=8	
2695	SGMR	46 C	1315.0	1319.0	8.0	21.0			QL=4 ST=2 TYP=8	
2800	PENT	20 GRF	1754.0	1821.0	67.0	7.0				
2800	PENT	21 GRF	2130.0	2208.0	63.0U	14.0				
410	LEAR	8 S	2333.0	2333.0	U	110.0			QL=4 ST=2 TYP=3	
17	245	SVTO	43 NS	0441.0	0448.0	31.0	57.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0540.0E	0754.0	141.0D	150.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		105.0		
	127	TORN	44 NS	0630.0E		510.0D		990.0		V=1
	33	UPIC	43 NS	0749.0		322.0				
	245	SVTO	43 NS	1041.0	1101.0U	67.0	62.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1114.0	1129.0	75.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1320.0E		510.0D		6.0		
	280	CUBA	44 NS	1320.0E		510.0D		19.0		
	245	PALE	43 NS	2344.0	0319.0	291.0	160.0			QL=4 ST=2 TYP=1
	200	HIRA	8 S	0126.0	0126.0	1.0	25.0			ML
	2804	VORO	1 S	0150.5	0150.7	1.1	3.2			
	200	HIRA	8 S	0151.0	0151.0	1.0	120.0			WL
	500	HIRA	8 S	0655.0	0655.0	1.0	25.0			0
	9100	GORK	48 C	0711.0	0815.0	229.0D	420.0			
	9100	GORK	48 C	0711.0	0857.7		2000.0			
	2840	PEKG	47 GB	0717.0	0857.4	183.0	3511.8			
900	GORK	47 GB	0739.0	0904.0	201.0D	30300.0				
3000	IZMI	45 C	0741.4	0808.2	30.3	433.0				
2695	LEAR	48 C	0746.0	0816.0	974.0	930.0			QL=4 ST=1 TYP=8	
2695	LEAR	48 C	0746.0	0857.0	974.0	4100.0			QL=4 ST=1 TYP=8	
4995	LEAR	48 C	0746.0	0815.0	974.0	800.0			QL=4 ST=1 TYP=8	

S O L A R R A D I O E M I S S I O N
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Apr 02

APRIL 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
17	4995	LEAR	48 C	0746.0	0857.0	974.0	3500.0			QL=4 ST=1 TYP=8
	8800	LEAR	48 C	0746.0	0815.0	974.0	480.0			QL=4 ST=1 TYP=8
	8800	LEAR	48 C	0746.0	0857.0	974.0	2300.0			QL=4 ST=1 TYP=8
	2695	LEAR	48 C	0747.0	0845.0	126.0	4100.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0747.0	0845.0	126.0	3500.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0748.0	0845.0	125.0	2300.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0748.0	0847.0	972.0	3500.0			QL=4 ST=1 TYP=8
	1415	LEAR	48 C	0750.0	0845.0	123.0	3500.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	0751.0	0847.0	174.0	3600.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0753.0	0842.0	120.0	16000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0753.0	0857.0	139.0	2400.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	0753.0	0905.0	168.0	20000.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0753.0	0857.0	164.0	4200.0			QL=4 ST=3 TYP=8
	2695	SVTO	48 C	0753.0	0857.0	172.0	3000.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0756.0	0846.0	964.0	3000.0			QL=4 ST=1 TYP=8
	410	LEAR	48 C	0756.0	0853.0	964.0	9200.0			QL=4 ST=1 TYP=8
	410	LEAR	48 C	0757.0	0845.0	116.0	9200.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	0757.0	0907.0	164.0	19000.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	0801.0	0901.0	160.0	4500.0			QL=2 ST=3 TYP=8
	204	IZMI	46 C	0802.8	0817.7	28.7	316.0			
	15400	LEAR	48 C	0803.0	0845.0	110.0	240.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0803.0	0857.0	150.0	930.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	0805.0	0814.0	955.0	570.0			QL=2 ST=1 TYP=8
	245	LEAR	49 GB	0805.0	0816.0	955.0	890.0			QL=2 ST=1 TYP=6
	127	TORN	24 R	0812.0				2660.0		
	3000	IZMI	46 C	0812.1	0857.8	124.3	3528.0			
	245	LEAR	48 C	0830.0	0831.0	1.0	220.0			QL=2 ST=2 TYP=8
	204	IZMI	46 C	0832.0	0905.5	144.1	1110.0			
	245	LEAR	48 C	0836.0	0844.0	77.0	890.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1001.0E	1023.0U	73.0D	150.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1002.0E	1013.0U	72.0D	250.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1008.0E	1016.0U	66.0D	300.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1008.0E	1016.0U	66.0D	230.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1014.0E	1016.0U	60.0D	200.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1032.0E	1033.0U	28.0D	62.0			QL=4 ST=2 TYP=8
	3000	IZMI	7 C	1124.1	1124.4	0.7	19.0	10.9		
	245	SVTO	8 S	1413.0	1413.0	U	290.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1413.0	1413.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1559.0	1559.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1559.0	1559.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1643.0	1643.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1657.0	1657.0	2.0	82.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	1702.0	1702.0	U	77.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1912.0	1913.0	1.0	290.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1912.0	1912.0	1.0	210.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1932.0	1933.0	1.0	210.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1933.0	1933.0	U	290.0			QL=4 ST=2 TYP=3	
200	HIRA	47 GB	2010.0	2010.0	1.0	635.0			0	
245	PALE	8 S	2010.0	2010.0	1.0	2400.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2010.0	2010.0	U	2000.0			QL=4 ST=3 TYP=3	
245	PALE	8 S	2125.0	2126.0	1.0	140.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2126.0	2126.0	U	130.0			QL=4 ST=2 TYP=3	
18	245	LEAR	43 NS	0000.0	0000.0	20.0	57.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0223.0	0223.0	20.0	68.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0312.0	0319.0	58.0	160.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		20.0		
	127	TORN	44 NS	0740.0E		440.0D		100.0		V=2
	245	SGMR	43 NS	1734.0	1734.0	67.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1752.0	1802.0	49.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1800.0E		230.0D		10.0		
	280	CUBA	44 NS	1800.0E		230.0D		22.0		
	200	HIRA	8 S	0101.0	0101.0	1.0	115.0			0
	245	LEAR	8 S	0101.0	0101.0	U	73.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0109.0	0109.0	1.0	40.0			0
	410	LEAR	8 S	0109.0	0109.0	U	400.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0143.0	0145.0	3.0	100.0			WR
	245	LEAR	8 S	0145.0	0145.0	U	160.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	0504.0	0504.0	U	200.0			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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APRIL 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
18	245	SVTO	8 S	0504.0	0504.0		140.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0505.0	0505.0	1.0	155.0			0
	204	IZMI	7 C	0604.7	0604.7	0.1	32.0			
	2840	PEKG	20 GRF	0636.0	0640.6	12.0	11.3			
	900	GORK	46 C	0638.7	0642.3	9.1	10.0			
	900	GORK	46 C	0638.7	0645.4		6.8			
	1415	LEAR	48 C	0640.0	0640.0	5.0	130.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	0640.0	0640.0	5.0	140.0			QL=4 ST=2 TYP=8
	9100	GORK	20 GRF	0856.2	0857.9	22.8	15.0			
	900	GORK	42 SER	0856.7	0857.5	37.1	29.0			
	900	GORK	42 SER	0856.7	0928.7		43.0			
	245	LEAR	4 S/F	0910.0	0911.0	3.0	87.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0911.0	0911.0		74.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	1001.0	1030.0U	160.0				
	204	IZMI	42 SER	1042.3	1042.4	0.4	29.0			
	245	SGMR	8 S	1138.0	1138.0	2.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1212.0	1212.0		60.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1317.0	1317.0		92.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1317.0	1317.0		73.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1429.0	1429.0	1.0	120.0			QL=4 ST=3 TYP=3
245	SVTO	8 S	1430.0	1430.0		97.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1700.0	1700.0	1.0	77.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1734.0	1734.0		150.0			QL=4 ST=2 TYP=3	
19	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0630.0E		510.0D		19.0		V=1
	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	280	CUBA	44 NS	1300.0E		530.0D		17.0		
	2804	VORO	1 S	0011.6	0012.2	1.2	3.6			
	245	LEAR	8 S	0629.0	0629.0		57.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	0646.8	0647.7	2.7	37.0			
	2840	PEKG	1 S	0657.0	0700.0	8.0	6.4			
	9100	GORK	46 C	0659.8	0700.5	5.0	46.0			
	9100	GORK	46 C	0659.8	0703.5		9.8			
	500	HIRA	8 S	0700.0	0700.0	4.0	25.0			0
	200	HIRA	8 S	0700.0	0700.0	5.0	60.0			0
	245	LEAR	8 S	0700.0	0700.0		98.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0700.0	0700.0		75.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0700.0	0700.0		55.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0700.2	0700.4	0.8	139.0			
	204	IZMI	41 F	0702.9	0703.4	1.1	43.0			
204	IZMI	42 SER	0939.0	0939.5	0.8	157.0				
204	IZMI	42 SER	1001.3	1001.8	1.9	73.0				
9500	CUBA	2 S/F	1350.0	1350.5	1.5	14.0	7.0			
2800	PENT	21 GRF	1535.0	1549.0	57.0U	5.0				
9500	CUBA	2 S/F	2006.0	2006.8	1.8	17.0	8.0			
20	127	TORN	44 NS	0630.0E		510.0D		30.0		V=1
	235	CUBA	44 NS	1320.0E		510.0D		6.0		
	280	CUBA	44 NS	1320.0E		510.0D		15.0		
	2840	PEKG	1 S	0423.0	0426.0	9.0	4.3			
	204	IZMI	42 SER	0647.0	0647.1	1.0	106.0			
	9100	GORK	1 S	0929.4	0929.8	1.0	6.6			
	900	GORK	46 C	0936.3	0936.5	0.7	33.0			
	900	GORK	46 C	0936.3	0936.7		29.0			
	204	IZMI	42 SER	1155.3	1155.6	1.1	90.0			
	245	SVTO	8 S	1331.0	1331.0		67.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1332.0	1332.0		63.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1738.6	1738.7	0.7	14.0	7.0		
	245	SGMR	8 S	1945.0	1945.0		58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2013.0	2013.0		61.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	2013.0	2013.0		53.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2032.0	2032.0		57.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2311.0	2311.0	1.0	10.0			0	
2840	PEKG	1 S	2323.0	2326.5	9.0	6.1				
2804	VORO	2 S/F	2325.7	2326.4	1.8	6.6				
21	127	TORN	43 NS	0745.0		435.0		14.0		V=0
	235	CUBA	44 NS	1300.0E		420.0D		6.0		

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 Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
21	280	CUBA	44 NS	1300.0E		420.0D		15.0		
	2800	PENT	47 GB	0040.0	0115.0	35.0U	566.0			
	2840	PEKG	47 GB	0040.0	0226.3	201.0	1731.3			
	2800	HIRA	47 GB	0044.0	0131.0	178.0	1960.0			0
	4995	PALE	48 C	0057.0	0123.0	144.0	2900.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0058.0	0123.0	140.0	2800.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	0058.0	0227.0	150.0	1800.0			QL=4 ST=2 TYP=8
	200	HIRA	7 C	0102.0	0131.0	123.0	185.0			0
	500	HIRA	47 GB	0106.0	0212.0	160.0	2690.0			WL
	1415	PALE	45 C	0108.0	0203.0	134.0				QL=4 ST=2 TYP=8
	15400	PALE	48 C	0110.0	0123.0	102.0	1400.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0111.0	0111.0	2.0	160.0			QL=4 ST=1 TYP=8
	610	PALE	46 C	0111.0	0111.0	2.0	44.0			QL=4 ST=1 TYP=8
	245	PALE	48 C	0111.0	0111.0	20.0	500.0			QL=4 ST=2 TYP=8
	410	LEAR	4 S/F	0111.0	0111.0	1369.0	140.0			QL=4 ST=1 TYP=3
	410	PALE	48 C	0111.0	0121.0	1369.0	240.0			QL=4 ST=1 TYP=8
	610	PALE	48 C	0111.0	0121.0	1369.0	800.0			QL=4 ST=1 TYP=8
	410	PALE	4 S/F	0135.0	0135.0	1345.0	44.0			QL=4 ST=1 TYP=3
	245	LEAR	48 C	0143.0	0227.0	83.0	760.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0145.0	0210.0	80.0	13000.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0146.0	0220.0	66.0	4900.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0206.0	0227.0	38.0	730.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0336.0	0336.0	32.0	79.0			QL=4 ST=2 TYP=8
	2804	VORO	29 PBI	0340.6	0340.6	90.0				
	9100	GORK	21 GRF	0510.0U	0510.0U	107.5D	21.0			
	9100	GORK	7 C	0613.6	0614.2	3.7	26.0			
	9100	GORK	7 C	0613.6	0616.6		23.0			
	204	IZMI	7 C	0642.2	0642.4	0.2	31.0			
	410	PALE	8 S	1727.0	1728.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1727.0	1728.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1727.0	1728.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1727.0	1727.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1727.0	1728.0	2.0	60.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1727.0	1727.0	2.0	68.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1727.0	1728.0	2.0	25.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1728.0	1728.0	1.0	26.0			QL=4 ST=2 TYP=3	
2800	PENT	20 GRF	1749.0	1803.0	27.0	4.0				
9500	CUBA	20 GRF	1801.0	1805.0	11.0	23.0		11.0		
2800	PENT	1 S	1921.0	1924.0	4.0	3.0				
245	SGMR	8 S	2039.0	2039.0	U	51.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2040.0	2040.0	1.0	35.0			0	
2800	PENT	1 S	2150.0	2153.0	6.0	6.0				
200	HIRA	8 S	2211.0	2212.0	1.0	30.0			0	
22	127	TORN	44 NS	0630.0E		510.0D		14.0		V=1
	204	IZMI	43 NS	1058.0		62.0D		5.0		
	235	CUBA	44 NS	1305.0E		505.0D		6.0		
	280	CUBA	44 NS	1305.0E		505.0D		15.0		
	2800	PENT	3 S	0001.0	0018.0	25.0	21.0			
	2840	PEKG	3 S	0013.0	0018.8	14.0	21.5			
	2804	VORO	42 SER	0015.4	0016.6	2.6	8.4			
	2804	VORO	42 SER	0015.4	0018.8	3.6	18.6			
	1415	LEAR	8 S	0018.0	0018.0	1.0	86.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0039.0	0039.0	1.0	30.0			0
	200	HIRA	7 C	0515.0	0517.0	9.0	230.0			0
	245	LEAR	8 S	0515.0	0517.0	2.0	520.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0515.0	0517.0	3.0	380.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0516.0	0517.0	1.0	300.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0516.0	0517.0	2.0	330.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0516.0	0517.0	1.0	54.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0517.0	0518.0	2.0	185.0			0
	610	LEAR	8 S	0517.0	0517.0	U	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0543.0	0544.0	1.0	30.0			0
	2840	PEKG	3 S	0543.0	0545.7	10.0	114.1			
15400	LEAR	46 C	0544.0	0544.0	U	32.0			QL=4 ST=2 TYP=8	
2695	LEAR	8 S	0544.0	0544.0	1.0	82.0			QL=4 ST=2 TYP=3	
4995	LEAR	8 S	0544.0	0544.0	U	68.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	0544.0	0545.0	2.0	86.0			QL=4 ST=2 TYP=3	
9100	GORK	46 C	0544.7	0546.3		20.0				

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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		
22	9100	GORK	46 C	0544.7	0545.5	4.4	32.0			
	2800	HIRA	3 S	0545.0	0546.0	4.0	90.0			0
	4995	SVTO	8 S	0545.0	0545.0	U	61.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0611.0	0611.0	1.0	10.0			0
	204	IZMI	7 C	0611.2	0611.2	0.1	22.0			
	204	IZMI	41 F	0713.8	0713.8	0.2	49.0			
	200	HIRA	8 S	0714.0	0714.0	1.0	15.0			0
	204	IZMI	41 F	0728.3	0728.5	0.7	16.0			
	127	TORN	7 C	0729.0	0729.3	1.1	180.0	50.0		
	204	IZMI	7 C	0731.1	0731.3	0.3	9.0			
	204	IZMI	41 F	0736.6	0738.6	2.5	42.0			
	200	HIRA	7 C	0738.0	0740.0	4.0	110.0			0
	245	LEAR	8 S	0738.0	0738.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0738.0	0738.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0739.0	0739.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0739.0	0739.0	U	77.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0739.4	0739.9	2.2	353.0			
	204	IZMI	7 C	0743.6	0743.7	0.3	8.0			
	204	IZMI	41 F	0744.6	0744.7	0.3	21.0			
	204	IZMI	42 SER	0754.8	0756.1	1.7	58.0			
	127	TORN	42 SER	0755.2	0755.7	12.9	1700.0	6.0		
	245	SVTO	49 GB	0800.0	0802.0	2.0	530.0			QL=4 ST=2 TYP=6
	204	IZMI	42 SER	0800.8	0801.9	1.5	106.0			
	410	SVTO	8 S	0802.0	0802.0	U	79.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0802.3	0802.6	0.9	2571.0			
	245	LEAR	8 S	0806.0	0806.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0806.0	0806.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0806.7	0807.2	1.0	166.0			
	204	IZMI	42 SER	0808.7	0809.4	1.0	62.0			
	204	IZMI	42 SER	0813.1	0813.2	0.3	8.0			
	204	IZMI	42 SER	0824.1	0824.8	0.8	11.0			
	245	SVTO	8 S	0831.0	0832.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0833.3	0833.4	0.6	808.0			
	900	GORK	4 S/F	1004.8	1005.1	1.2	28.0			
	15400	SVTO	8 S	1204.0	1205.0	1.0	99.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1204.0	1205.0	3.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1204.0	1205.0	3.0	430.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1205.0	1206.0	1.0	31.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1205.0	1206.0	3.0	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1205.0	1206.0	5.0	390.0			QL=4 ST=2 TYP=3
15400	SGMR	4 S/F	1205.0	1206.0	5.0	100.0			QL=4 ST=2 TYP=3	
33	UPIC	3 S	1216.0	1216.5	1.0					
127	TORN	7 C	1328.8	1329.0	1.4	100.0	3.0			
245	SGMR	8 S	1451.0	1451.0	U	53.0			QL=4 ST=2 TYP=3	
245	PALE	48 C	2114.0	2117.0	3.0	130.0			QL=4 ST=2 TYP=8	
245	PALE	8 S	2122.0	2122.0	U	61.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2229.0	2229.0	1.0	190.0			QL=4 ST=2 TYP=3	
23	127	TORN	44 NS	0630.0E		510.0D		11.0		V=1
	280	CUBA	44 NS	1305.0E		525.0D		16.0		
	245	LEAR	8 S	0204.0	0204.0	U	180.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0204.0	0204.0	U	240.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0610.9	0611.2	0.7	15.0			
	204	IZMI	41 F	0613.2	0613.4	0.4	18.0			
	204	IZMI	7 C	0750.8	0750.9	0.2	5.0			
	245	SVTO	8 S	0802.0	0803.0	2.0	96.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0802.0	0803.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0803.0	0803.0	U	86.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0806.0	0806.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0806.0	0806.0	1.0	310.0			QL=4 ST=3 TYP=3
	204	IZMI	42 SER	0806.6	0807.2	1.2	349.0			
	200	HIRA	8 S	0807.0	0807.0	1.0	180.0			0
	410	LEAR	8 S	0807.0	0807.0	U	49.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0807.0	0807.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0926.9	0927.1	0.7	160.0			
	33	UPIC	45 C	1220.5	1221.8	2.0				
127	TORN	4 S/F	1220.9	1221.6	1.1	180.0	40.0			
410	SGMR	8 S	1352.0	1352.0	U	360.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1352.0	1352.0	U	340.0			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		
24	127	TORN	44 NS	0630.0E		510.0D		17.0		V=2
	235	CUBA	44 NS	1315.0E		515.0D		10.0		
	280	CUBA	44 NS	1315.0E		515.0D		21.0		
	245	LEAR	8 S	0246.0	0246.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0504.0	0505.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0729.0	0730.0	3.0	55.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0729.4	0730.4	7.7	21.0			
	500	HIRA	4 S/F	0730.0	0730.0	5.0	25.0		0	
	200	HIRA	7 C	0730.0	0732.0	7.0	40.0		0	
	2840	PEKG	3 S	0730.0	0733.5	11.0	11.3			
	204	IZMI	41 F	0731.8	0732.0	1.0	93.0			
	3000	IZMI	22 GRF	0731.9	0733.6	5.7	15.0	5.0		
	410	LEAR	8 S	0802.0	0802.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0802.0	0802.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0844.2	0844.6	1.1	9.0			
	204	IZMI	41 F	0924.6	0925.8	1.8	87.0			
	127	TORN	4 S/F	0925.0	0925.9	1.9	700.0	130.0		
	204	IZMI	42 SER	1018.5	1018.7	4.7	25.0			
	127	TORN	4 S/F	1018.7	1019.0	1.9	90.0	20.0		
	204	IZMI	46 C	1124.9	1125.2	0.9	1934.0			
	245	SVTO	49 GB	1125.0	1125.0	U	2500.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	1125.0	1125.0	U	910.0			QL=4 ST=2 TYP=6
	127	TORN	8 S	1125.2	1125.4	1.0	3000.0	1400.0		
	204	IZMI	42 SER	1125.9	1126.0	4.6	29.0			
	33	UPIC	42 SER	1314.5	1315.0	28.0				
	245	SVTO	49 GB	1315.0	1316.0	1.0	630.0			QL=4 ST=2 TYP=6
	127	TORN	47 GB	1315.2	1316.2	1.7	1200.0	140.0		
	245	SVTO	8 S	1340.0	1341.0	1.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	21 GRF	1540.0	1551.0	52.0U	10.0			
	245	SVTO	8 S	1707.0	1707.0	2.0	130.0			QL=4 ST=2 TYP=3
	235	CUBA	6 S	1744.8	1745.7	1.2	58.0	29.0		
	280	CUBA	6 S	1744.8	1745.7	1.2	116.0	58.0		
	245	PALE	8 S	1745.0	1745.0	U	400.0			QL=4 ST=2 TYP=3
410	PALE	8 S	1745.0	1745.0	U	100.0			QL=4 ST=2 TYP=3	
235	CUBA	7 C	1750.1	1750.3	0.4	415.0	208.0			
280	CUBA	7 C	1750.1	1750.3	0.4	406.0	203.0			
9500	CUBA	1 S	2149.7	2150.3	1.1	13.0	6.0			
245	PALE	8 S	2229.0	2230.0	1.0	170.0			QL=4 ST=2 TYP=3	
25	127	TORN	44 NS	0630.0E		510.0D		20.0		V=2
	204	IZMI	43 NS	0820.0		220.0U		5.0		
	235	CUBA	44 NS	1305.0E		525.0D		6.0		
	280	CUBA	44 NS	1305.0E		525.0D		17.0		
	245	LEAR	48 C	0353.0	0353.0	1.0	100.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	0353.0	0353.0	U	160.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0359.0	0400.0	3.0	69.0			QL=4 ST=2 TYP=8
	2840	PEKG	3 S	0547.0	0555.9	18.0	21.8			
	245	LEAR	8 S	0554.0	0555.0	2.0	1200.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0554.0	0555.0	3.0	1200.0			QL=4 ST=2 TYP=6
	2800	HIRA	1 S	0555.0	0556.0	2.0	20.0		0	
	500	HIRA	4 S/F	0555.0	0556.0	3.0	80.0			WL
	200	HIRA	47 GB	0555.0	0555.0	3.0	555.0		0	
	410	LEAR	8 S	0555.0	0556.0	1.0	69.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0555.0	0555.0	1.0	37.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0555.0	0555.0	1.0	52.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0555.0	0556.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0555.0	0556.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0555.0	0555.0	2.0	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0555.0	0556.0	1.0	44.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	0555.0	0555.5	2.5				
	15400	SVTO	8 S	0556.0	0556.0	U	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0559.0	0559.0	U	52.0			QL=4 ST=2 TYP=3
	600	GORK	3 S	0654.2	0655.7	3.4	50.0			
	900	GORK	2 S/F	0655.0	0656.0	3.1	15.0			
	9100	GORK	46 C	0655.1	0656.1		29.0			
	9100	GORK	46 C	0655.1	0655.6	1.9	21.0			
9100	GORK	46 C	0655.1	0655.8		22.0				
204	IZMI	41 F	0832.2	0832.5	0.6	32.0				
245	LEAR	8 S	0906.0	0906.0	U	250.0			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

APRIL 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	
25	L	245 SVTO	8 S	0906.0	0906.0	U	230.0			QL=4 ST=2 TYP=3	
		245 LEAR	8 S	0909.0	0909.0	U	77.0			QL=4 ST=2 TYP=3	
	[	245 SVTO	8 S	0909.0	0909.0	U	50.0			QL=4 ST=2 TYP=3	
		245 SVTO	8 S	1044.0	1044.0	U	290.0			QL=4 ST=2 TYP=3	
	[	2800 PENT	29 PBI	1849.0	1857.0	43.0U	9.0				
		245 PALE	8 S	1851.0	1851.0	U	140.0				QL=4 ST=2 TYP=3
		245 PALE	48 C	1922.0	1923.0	2.0	99.0				QL=4 ST=2 TYP=8
		245 PALE	8 S	1935.0	1936.0	1.0	67.0				QL=4 ST=2 TYP=3
245 PALE		48 C	2122.0	2122.0	1.0	120.0				QL=4 ST=2 TYP=8	
26	[	245 SVTO	43 NS	0546.0	0615.0	194.0	100.0				QL=4 ST=2 TYP=1
		204 IZMI	44 NS	0600.0E		360.0D		70.0			
	[	127 TORN	44 NS	0630.0E		510.0D		35.0			V=3
		235 CUBA	44 NS	1315.0E		515.0D		11.0			
	[	280 CUBA	44 NS	1315.0E		515.0D		23.0			
		245 SVTO	43 NS	1441.0	1444.0	36.0	83.0				QL=4 ST=2 TYP=1
	[	245 PALE	43 NS	2034.0	2037.0	54.0	86.0				QL=4 ST=2 TYP=1
		245 LEAR	43 NS	2330.0	2352.0	40.0	100.0				QL=4 ST=2 TYP=1
	[	245 LEAR	8 S	0016.0	0016.0	1.0	68.0				QL=4 ST=3 TYP=3
		2804 VORO	1 S	0131.9	0133.7	5.3	6.5				
	[	245 LEAR	8 S	0305.0	0305.0	U	81.0				QL=4 ST=2 TYP=3
		245 LEAR	8 S	0309.0	0309.0	U	66.0				QL=4 ST=2 TYP=3
	[	245 PALE	8 S	0309.0	0309.0	U	60.0				QL=4 ST=2 TYP=3
		245 SVTO	8 S	1432.0	1432.0	1.0	210.0				QL=4 ST=2 TYP=3
	[	245 PALE	8 S	1659.0	1659.0	U	69.0				QL=4 ST=2 TYP=3
		245 SVTO	8 S	1659.0	1659.0	U	56.0				QL=4 ST=2 TYP=3
	[	245 SVTO	8 S	1707.0	1707.0	U	57.0				QL=4 ST=2 TYP=3
		245 PALE	8 S	1736.0	1736.0	U	75.0				QL=4 ST=2 TYP=3
	[	245 PALE	48 C	1804.0	1804.0	U	89.0				QL=4 ST=2 TYP=8
		410 PALE	8 S	1804.0	1804.0	U	43.0				QL=4 ST=2 TYP=3
	[	245 PALE	8 S	1955.0	1956.0	1.0	85.0				QL=4 ST=2 TYP=3
		245 PALE	48 C	2016.0	2019.0	4.0	64.0				QL=4 ST=2 TYP=8
		2800 PENT	20 GRF	2036.0	2122.0	65.0	11.0				
27	[	245 SVTO	43 NS	0458.0	0523.0	258.0	110.0				QL=4 ST=2 TYP=1
		204 IZMI	44 NS	0600.0E		360.0D		45.0			
	[	127 TORN	44 NS	0630.0E		510.0D		37.0			V=2
		235 CUBA	44 NS	1305.0E		525.0D		11.0			
	[	280 CUBA	44 NS	1305.0E		525.0D		26.0			
		245 SVTO	43 NS	1440.0	1457.0	37.0	100.0				QL=4 ST=2 TYP=1
	[	245 PALE	43 NS	2348.0	0358.0	290.0	190.0				QL=4 ST=2 TYP=1
		2840 PEKG	1 S	0741.0	0747.1	9.0	5.0				
	[	610 SVTO	8 S	1028.0	1028.0	U	69.0				QL=4 ST=2 TYP=3
		3000 IZMI	22 GRF	1031.6	1104.4	56.5	10.0	4.0			
	[	2800 PENT	21 GRF	1517.0	1606.0	75.0U	13.0				
28		[127 TORN	44 NS	0630.0E		510.0D		12.0			V=0
	235 CUBA		44 NS	1310.0E		290.0D		9.0			
	[	280 CUBA	44 NS	1310.0E		290.0D		20.0			
		245 PALE	43 NS	1818.0	1831.0	163.0	90.0				QL=4 ST=2 TYP=1
	[	245 SGMR	43 NS	1822.0	1823.0	107.0	73.0				QL=4 ST=2 TYP=1
		245 LEAR	48 C	0458.0	0458.0	1.0	72.0				QL=4 ST=2 TYP=8
	[	245 SVTO	8 S	0458.0	0458.0	U	53.0				QL=4 ST=2 TYP=3
		245 LEAR	48 C	0503.0	0503.0	1.0	58.0				QL=4 ST=2 TYP=8
	[	245 LEAR	8 S	0531.0	0531.0	U	160.0				QL=4 ST=2 TYP=3
		245 SVTO	8 S	0531.0	0531.0	U	110.0				QL=4 ST=2 TYP=3
	[	200 HIRA	8 S	0541.0	0542.0	1.0	30.0				
		245 LEAR	8 S	0546.0	0547.0	1.0	73.0				QL=4 ST=2 TYP=3
	[	245 LEAR	48 C	0732.0	0732.0	U	81.0				QL=4 ST=2 TYP=8
		245 SVTO	8 S	0732.0	0732.0	U	51.0				QL=4 ST=2 TYP=3
	[	204 IZMI	7 C	0948.7	0948.9	0.6	24.0				
		245 SGMR	8 S	1347.0	1347.0	U	100.0				QL=4 ST=2 TYP=3
[	2800 PENT	21 GRF	2045.0	2107.0	64.0	11.0					
	29	[245 LEAR	43 NS	0123.0	0427.0	214.0	74.0			
245 LEAR			43 NS	0534.0	0727.0	250.0	240.0				QL=4 ST=2 TYP=1
[		204 IZMI	44 NS	0600.0E		360.0D		30.0			
		127 TORN	44 NS	0630.0E		490.0D		14.0			V=2
[245 SVTO	43 NS	0710.0	0727.0	120.0	170.0				QL=2 ST=3 TYP=1

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

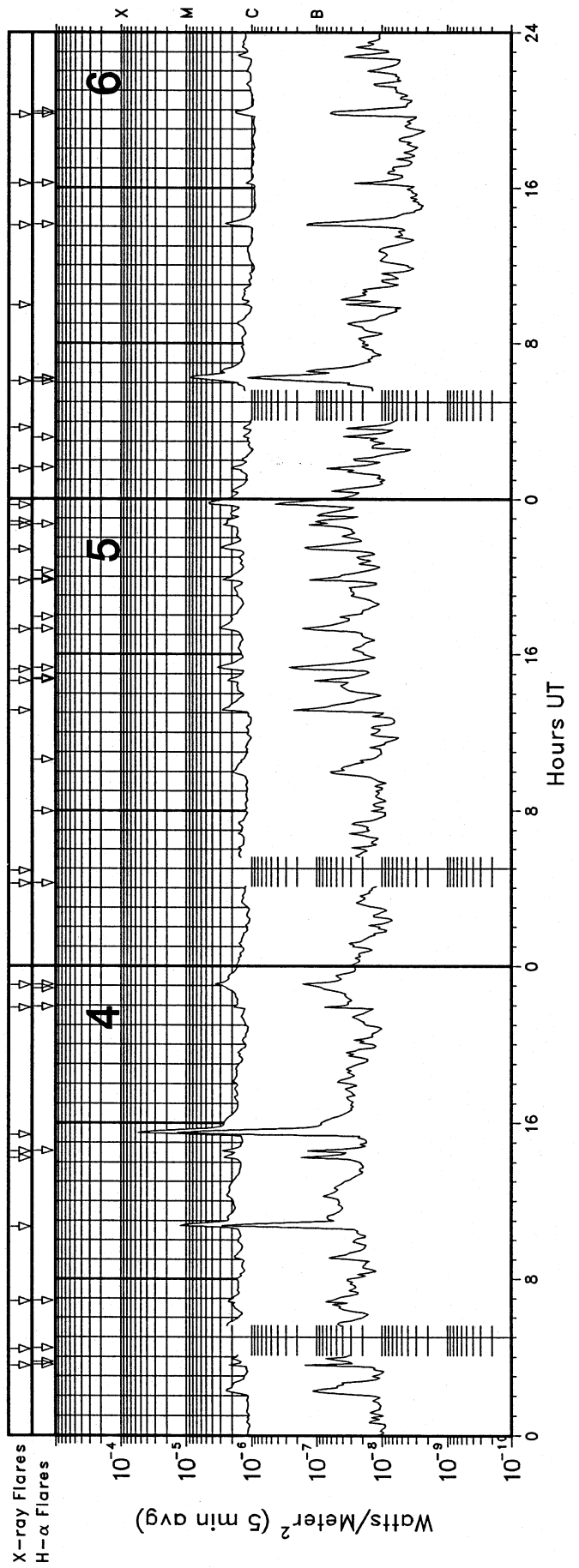
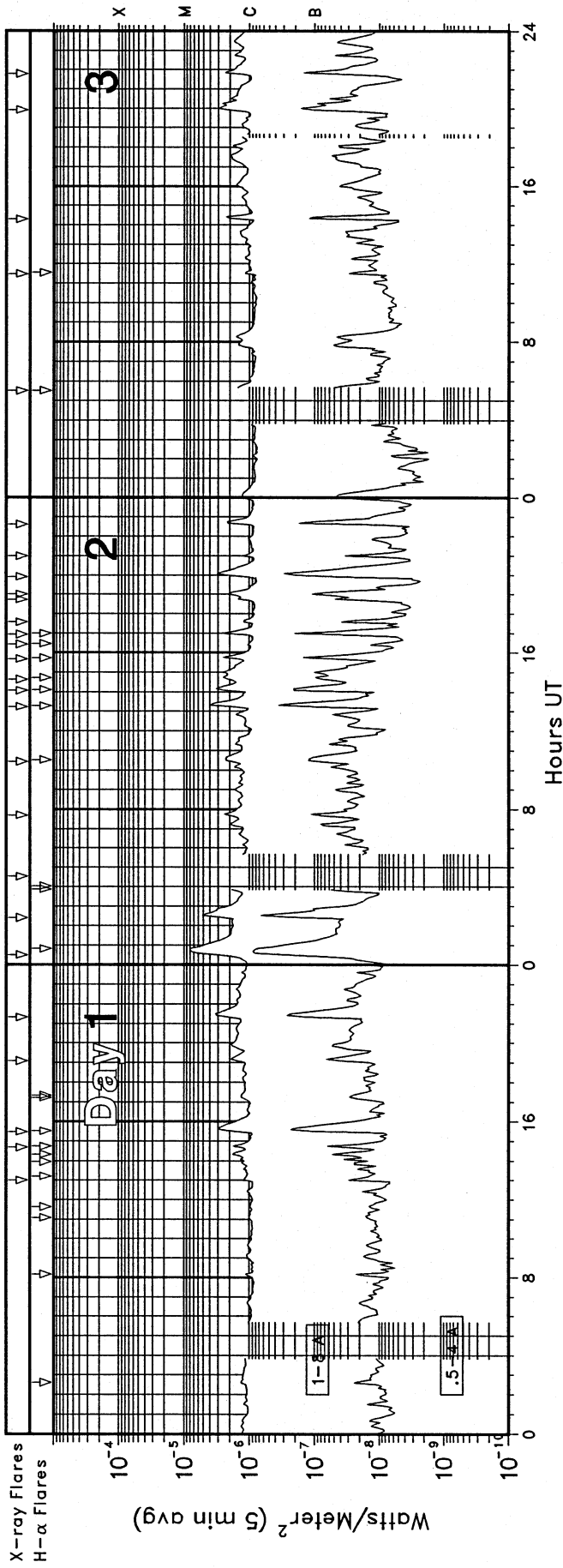
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APRIL 2002

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
29	245	SVTO	43 NS	1018.0	1018.0	122.0	130.0			QL=2 ST=2 TYP=1
	245	LEAR	8 S	0026.0	0026.0	U	260.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0059.0	0059.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0146.0	0146.0	U	190.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0146.0	0146.0	U	180.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0221.0	0224.3	9.0	16.7			
	2804	VORO	2 S/F	0223.4	0224.2	1.5	10.9			
	245	LEAR	8 S	0528.0	0528.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0534.0	0534.0	U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0641.4	0641.5	0.2	41.0			
	245	SVTO	8 S	0647.0	0647.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0704.0		63.0		60.0		
	410	SVTO	8 S	0902.0	0902.0	U	58.0			QL=2 ST=2 TYP=3
	2950	GORK	4 S/F	0918.0	0925.3U	10.3	7.0U			
	2840	PEKG	1 S	0920.0	0925.2	10.0	7.9			
	3000	IZMI	7 C	0924.9	0925.2	2.0	8.0	2.0		
	9100	GORK	20 GRF	0925.0	0938.0	26.0	11.0			
	245	SVTO	8 S	0926.0	0926.0	U	150.0			QL=2 ST=2 TYP=3
	204	IZMI	46 C	0926.1	0926.5	0.9	478.0			
	204	IZMI	42 SER	0927.2	0927.8	1.0	37.0			
	2840	PEKG	3 S	0932.0	0937.7	15.0	26.5			
	600	GORK	4 S/F	0935.0	0937.7	7.2	18.0			
	2950	GORK	4 S/F	0935.3	0937.7	4.7	26.0			
	245	LEAR	8 S	0936.0	0936.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0936.0	0936.0	1.0	150.0			QL=2 ST=2 TYP=8
	3000	IZMI	45 C	0936.1	0937.7	3.5	24.0	9.0		
	204	IZMI	46 C	0936.4	0936.8	2.4	308.0			
	127	TORN	4 S/F	0936.7	0938.3	2.8	2500.0	430.0		
	410	SVTO	8 S	0937.0	0938.0	1.0	56.0			QL=2 ST=2 TYP=3
	600	GORK	46 C	0954.6	0955.1	1.6	19.0			
600	GORK	46 C	0954.6	0955.7		8.8				
410	SVTO	8 S	0955.0	0955.0	U	51.0			QL=2 ST=2 TYP=3	
204	IZMI	7 C	1005.1	1005.2	0.3	18.0				
245	SVTO	8 S	1010.0	1010.0	1.0	170.0			QL=2 ST=2 TYP=3	
3000	IZMI	40 F	1031.6	1034.4	20.8U	8.0	3.0			
204	IZMI	42 SER	1048.6	1049.1	1.0	355.0				
204	IZMI	42 SER	1055.9	1056.0	2.0	134.0				
3000	IZMI	7 C	1057.6	1057.8	0.3	6.0	2.0			
204	IZMI	42 SER	1132.9	1133.7	2.0	78.0				
127	TORN	42 SER	1201.0	1203.8	9.5	20.0	20.0			
245	SVTO	8 S	1706.0	1706.0	1.0	59.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1709.0	1709.0	1.0	76.0			QL=4 ST=2 TYP=3	
30	127	TORN	43 NS	0840.0		370.0		11.0		V=1, ATM. STORM
	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	280	CUBA	44 NS	1300.0E		530.0D		20.0		
	204	IZMI	42 SER	0643.1	0645.8	10.5	25.0			
	500	HIRA	7 C	0647.0	0651.0	7.0	20.0			0
	245	LEAR	8 S	0647.0	0647.0	U	69.0			
	245	SVTO	8 S	0647.0	0647.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0647.0	0647.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0647.6	0647.8	0.4	79.0			
	200	HIRA	7 C	0648.0	0648.0	4.0	30.0			WL
	245	LEAR	8 S	0650.0	0650.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0650.0	0650.0	1.0	140.0			QL=4 ST=3 TYP=3
	204	IZMI	41 F	0650.4	0650.5	0.4	84.0			
	245	LEAR	8 S	0724.0	0724.0	U	54.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0724.0	0724.0	U	56.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	0819.6	0821.3	2.6	10.0			
	204	IZMI	42 SER	1043.7	1043.8	0.5	29.0			
	410	SGMR	8 S	1230.0	1230.0	U	56.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1230.0	1230.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1527.0	1527.0	U	56.0			QL=4 ST=2 TYP=8
245	SGMR	48 C	1528.0	1528.0	1.0	69.0			QL=4 ST=2 TYP=8	
410	SGMR	8 S	1528.0	1528.0	1.0	42.0			QL=4 ST=2 TYP=3	
245	SGMR	48 C	1538.0	1538.0	U	55.0			QL=4 ST=2 TYP=8	
410	SGMR	8 S	1538.0	1539.0	U	20.0			QL=4 ST=2 TYP=3	

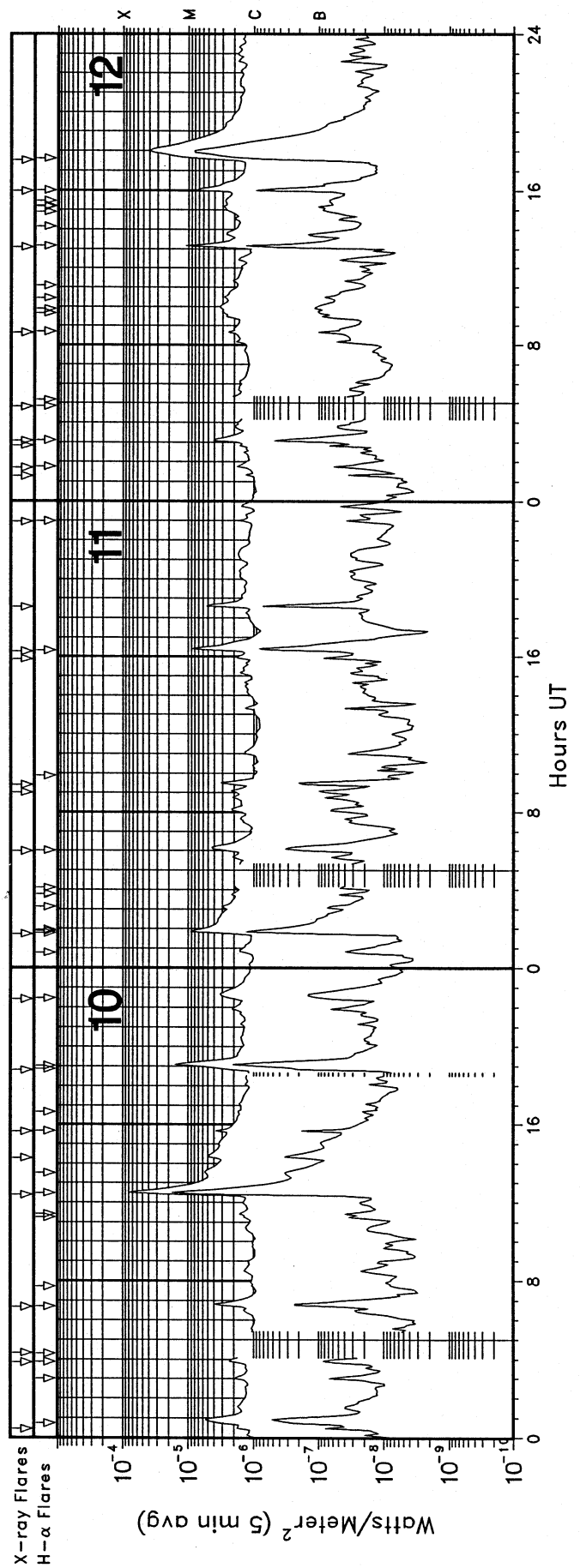
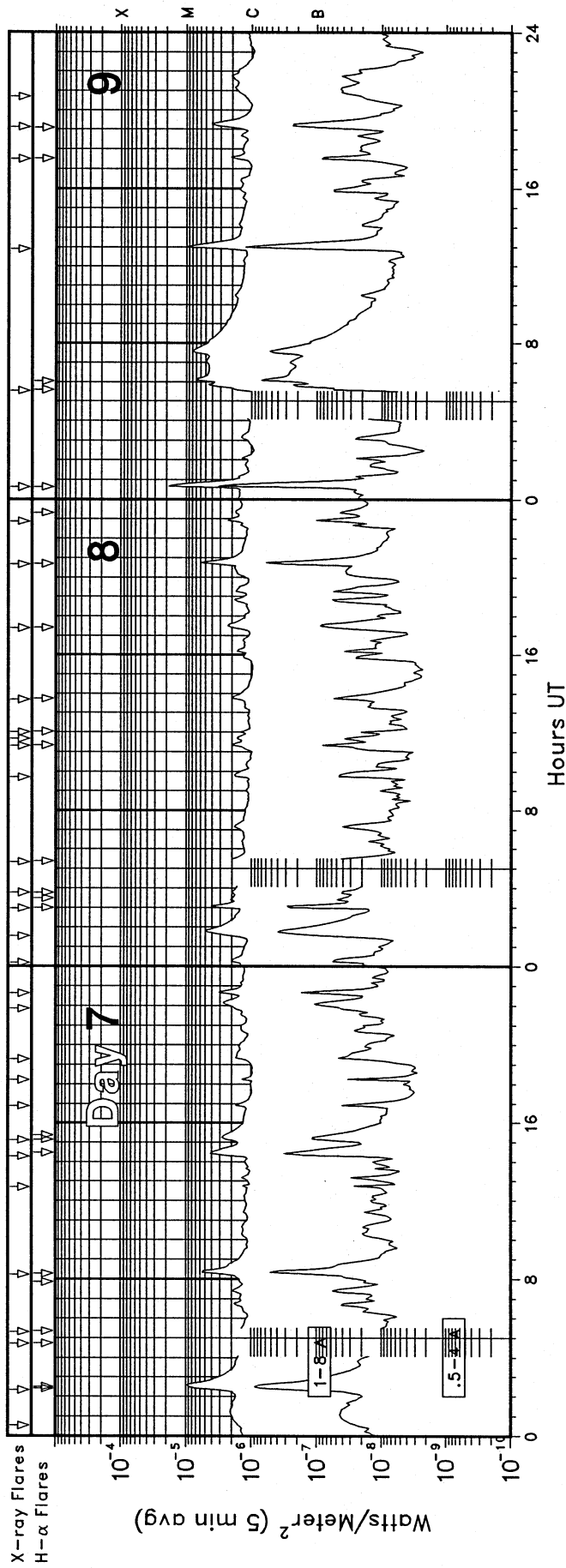
GOES X-RAY DETECTOR

April 2002

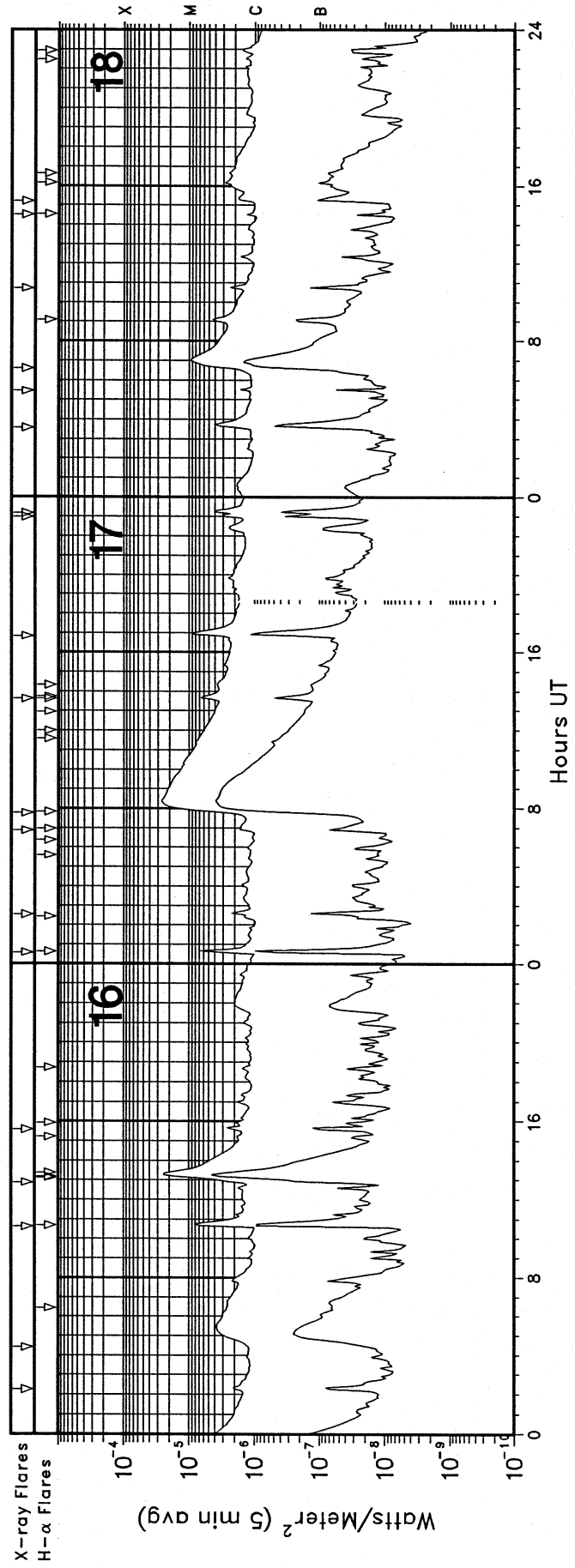
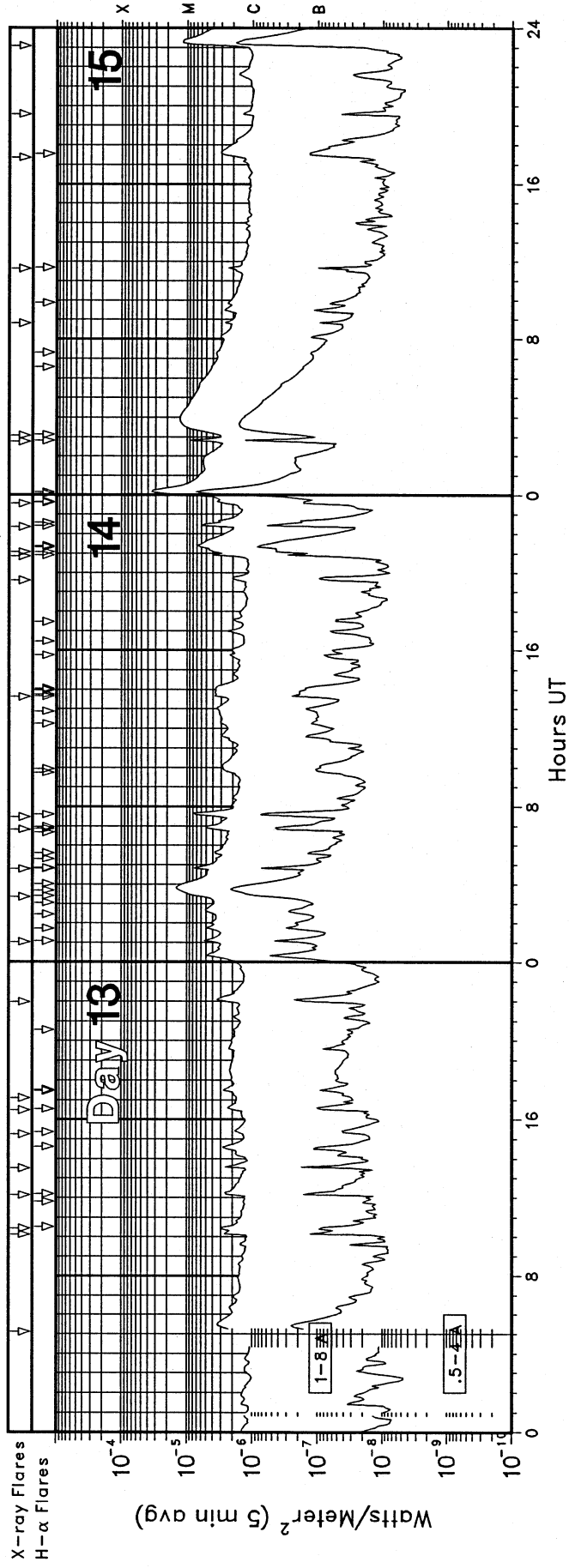


GOES X-RAY DETECTOR

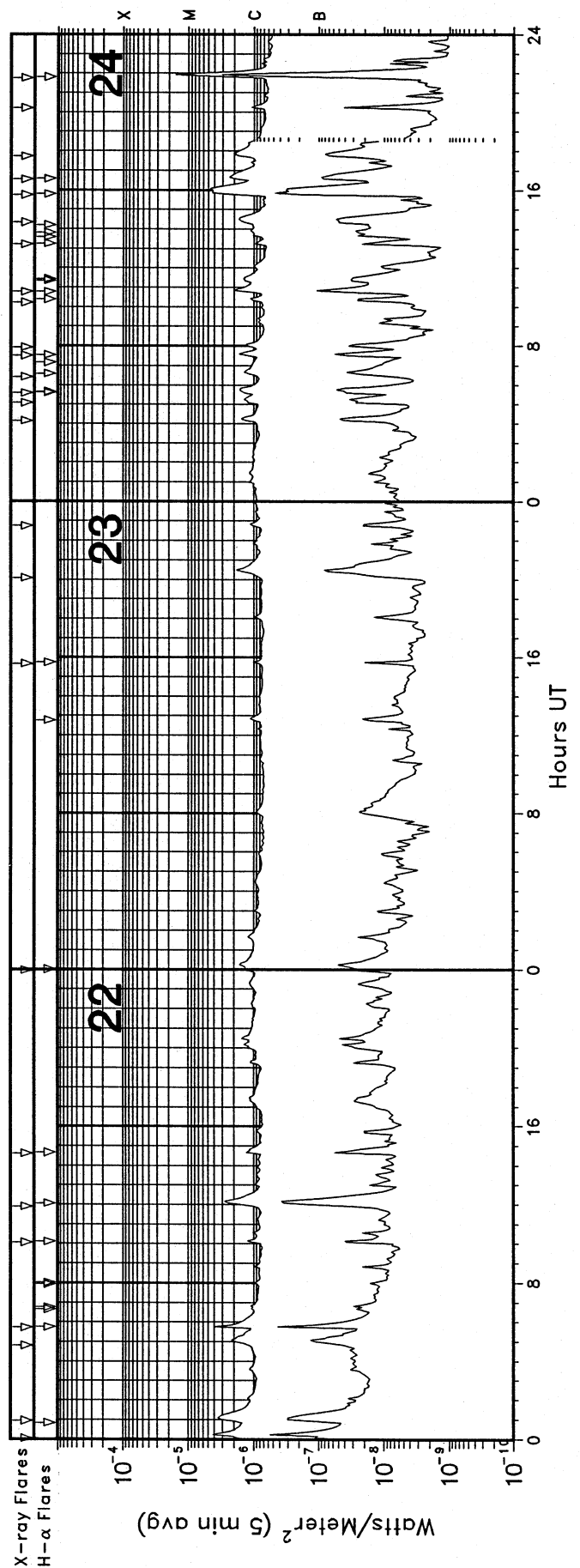
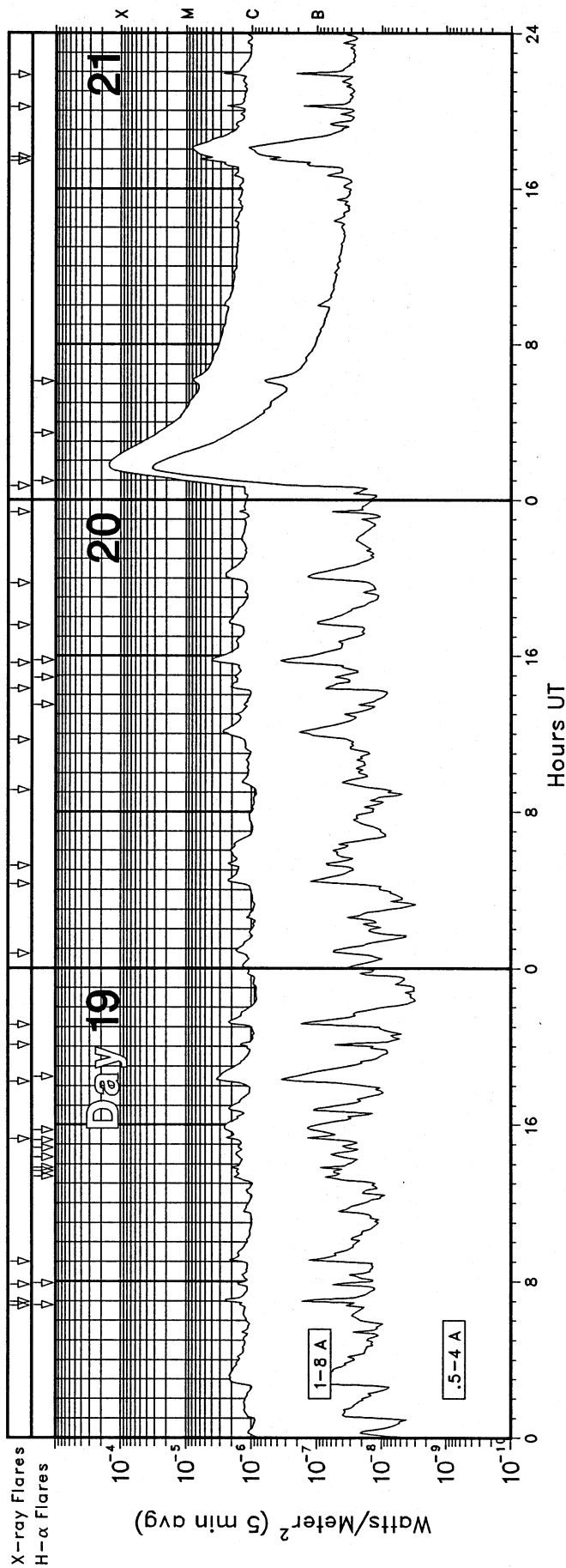
April 2002



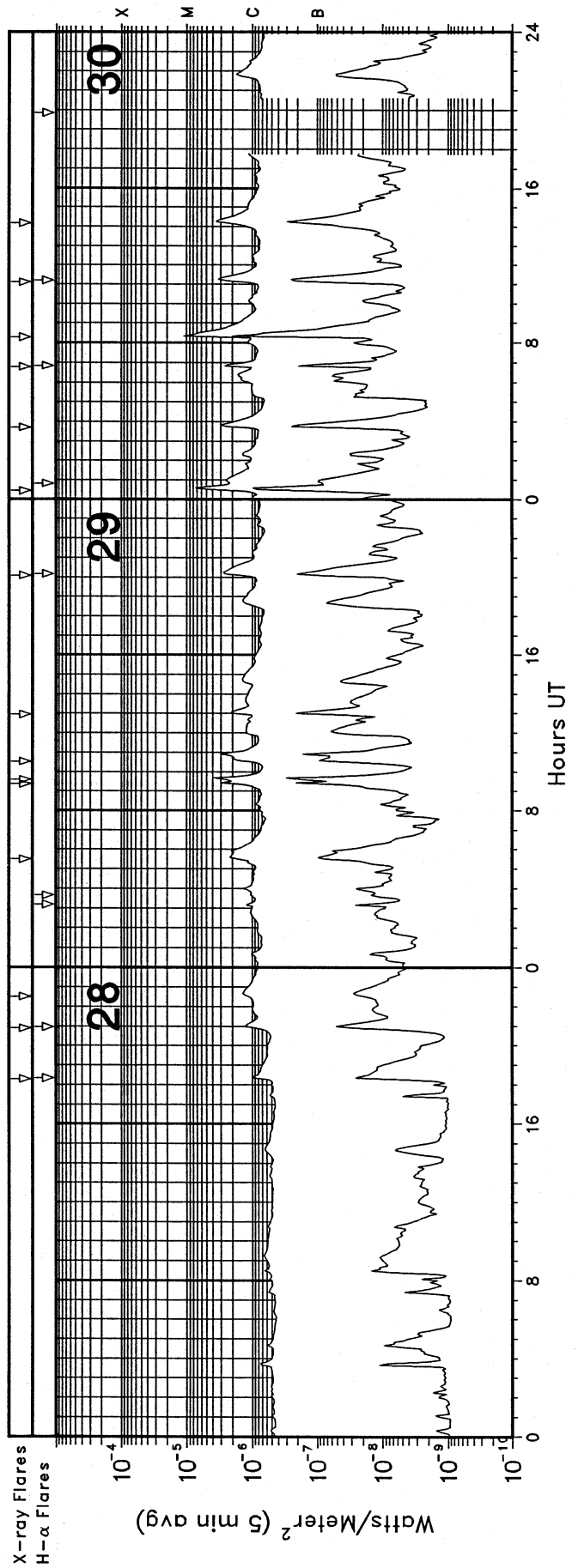
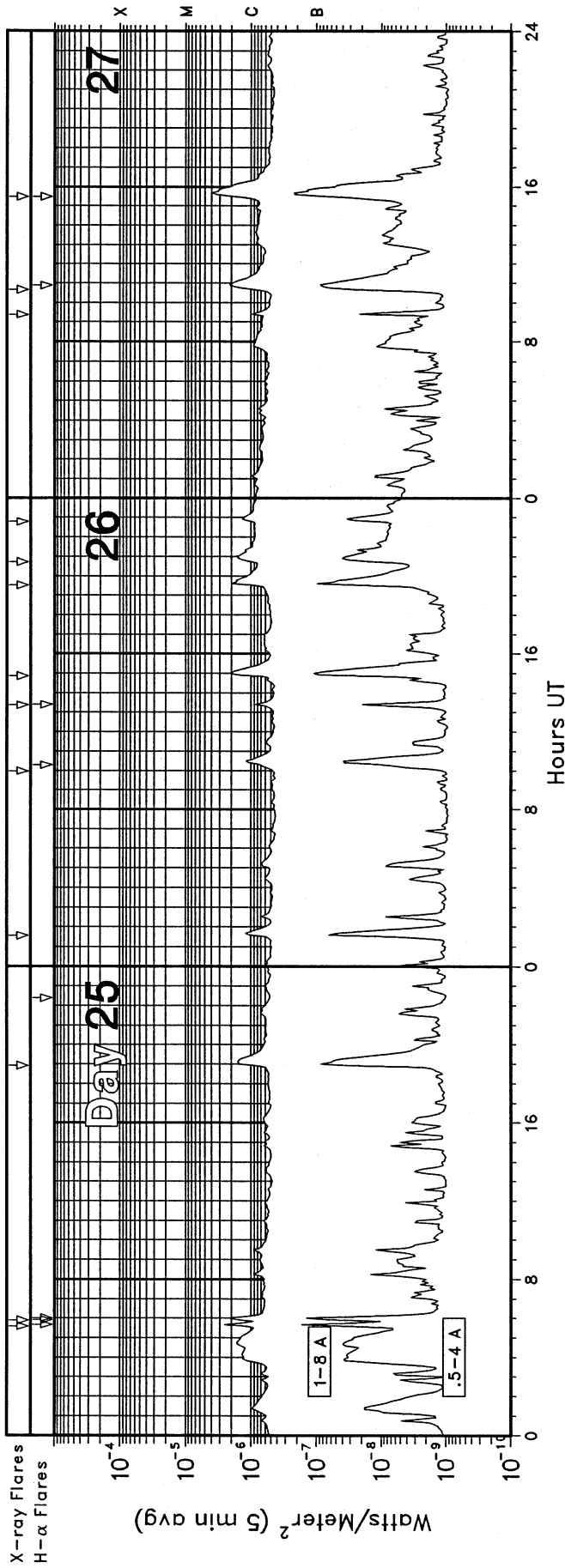
GOES X-RAY DETECTOR April 2002



GOES X-RAY DETECTOR April 2002



GOES X-RAY DETECTOR April 2002



GOES SOLAR X-RAY FLARES
 Preliminary Listing

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April 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	1300	1303	1307				C1.3		5.1E-04	07	0814	0824	0830	N17	E34	SF	C6.0	9893	4.3E-03
01	1441	1446	1450	N11	E08	SF	C1.9	9885	8.4E-04	07	1242	1245	1247				C1.7		4.1E-04
01	1529	1539	1557	N10	E21	SF	C3.0	9886	4.0E-03	07	1417	1429	1442	S18	E54	SF	C4.4	9898	4.8E-03
01	1905	1912	1920				C1.9		1.6E-03	07	1507	1517	1525	N20	E41	SF	C2.8		2.7E-03
01	2119	2130	2143				C3.3		3.9E-03	07	1653	1659	1705				C1.8		1.1E-03
02	0030	0050	0057				C9.4		1.1E-02	07	1813	1817	1820				C1.5		5.5E-04
02	0224	0232	0242				C5.3		4.4E-03	07	1917	1923	1947				C1.7		2.9E-03
02	0431	0434	0439				C6.0		2.0E-03	07	2151	2210	2219				C2.7		3.7E-03
02	0742	0746	0751				C2.4		1.2E-03	07	2238	2243	2247				C3.3		1.6E-03
02	1026	1038	1049	N01	E19	SF	C2.2	9887	2.9E-03	08	0011	0019	0031	N19	E61	SF	C2.1	9899	2.1E-03
02	1315	1322	1333	S01	E19	SF	C4.0	9887	3.3E-03	08	0133	0150	0202	N20	E35	SF	C5.1	9901	6.6E-03
02	1404	1409	1422	N02	E17	SF	C3.3	9887	2.9E-03	08	0258	0304	0310	N20	E56	SF	C4.7	9899	2.5E-03
02	1438	1445	1452	N02	E17	SF	C2.6	9887	1.9E-03	08	0346	0349	0355	N20	E33	SF	C2.1	9901	1.1E-03
02	1541	1546	1552	N01	E16	SF	C2.5	9887	1.4E-03	08	0521	0526	0536	S20	E49	SF	C2.0	9898	1.6E-03
02	1626	1628	1631	N01	E16	SF	C1.1	9887	3.2E-04	08	0942	0951	1004				C1.8		2.2E-03
02	1656	1701	1706	N01	E15	SF	C2.8	9887	1.2E-03	08	1118	1123	1127	N18	E54	SF	C2.1	9899	1.0E-03
02	1734	1738	1743				C1.3		6.5E-04	08	1140	1144	1148				C1.7		7.9E-04
02	1844	1847	1850				C1.7		5.2E-04	08	1200	1202	1204	N02	W63	SF	C1.5	9887	3.4E-04
02	1900	1904	1907				C2.2		8.7E-04	08	1341	1349	1354	S14	W53	SF	C2.1	9888	1.4E-03
02	1955	2007	2018				C3.1		3.1E-03	08	1723	1734	1743	S18	E41	SF	C2.3	9898	2.5E-03
02	2059	2102	2104				C1.4		3.6E-04	08	2039	2046	2052	N21	E49	SF	C6.1	9899	3.6E-03
02	2237	2243	2252				C2.3		1.7E-03	08	2253	2259	2303				C2.4		1.3E-03
03	0530	0534	0542	N01	E10	SF	C1.8	9887	1.2E-03	09	0038	0042	0050	N19	E46	2B	M2.1	9899	1.1E-02
03	1129	1133	1138	S11	E10	SF	C1.3	9888	6.2E-04	09	0533	0736	0811	N20	E50	1F	C7.9	9899	4.7E-02
03	1418	1424	1429				C2.8		1.3E-03	09	1254	1302	1310				M1.1		6.6E-03
03	1955	2000	2011				C3.2		2.4E-03	09	1730	1735	1739	S16	W04	SF	C2.2		1.1E-03
03	2147	2152	2201				C2.4		1.7E-03	09	1908	1916	1925	S15	W05	SF	C4.1		3.7E-03
04	0333	0336	0339	N18	E77	SF	C2.8	9893	7.3E-04	09	2041	2147	2215				C2.1		9.2E-03
04	0423	0441	0457				C9.8	9893	1.5E-02	10	0027	0059	0105	N19	E33	SF	C5.6	9899	7.2E-03
04	0651	0654	0656	S10	W02	SF	C3.0	9888	7.8E-04	10	0351	0355	0406	N21	E39	SF	C2.4	9899	1.9E-03
04	1041	1048	1054				M1.4		7.0E-03	10	0420	0426	0430				C3.0		1.5E-03
04	1413	1418	1422				C2.9		1.3E-03	10	0641	0650	0656	N20	E31	1F	C4.3	9899	2.8E-03
04	1413	1418	1423				C3.0		1.5E-03	10	1223	1231	1240	N15	W14	1N	M8.2	9893	4.9E-02
04	1433	1436	1440	N14	W25	SF	C3.0	9885	1.1E-03	10	1417	1423	1436				C5.0		5.2E-03
04	1524	1532	1538				M6.1		2.7E-02	10	1538	1541	1544	N19	W11	SF	C4.2	9893	1.3E-03
04	2153	2158	2203	N18	E69	SF	C2.0	9893	1.0E-03	10	1848	1907	1915				M1.6	9899	1.3E-02
04	2302	2306	2308	N08	E73	SF	C4.0		1.3E-03	10	2225	2242	2255	S29	W29	SF	C3.2	9900	4.9E-03
05	0413	0418	0434	N14	W40	SF	C1.6	9885	1.9E-03	11	0144	0153	0204	N20	W10	1N	C9.9	9893	7.7E-03
05	0453	0457	0458				C1.9		4.9E-04	11	0559	0610	0620	S29	W31	SF	C4.4	9900	4.7E-03
05	1307	1313	1329				C3.0		3.1E-03	11	0901	0905	0911				C2.3		1.3E-03
05	1439	1443	1448	N00	W24	SF	C2.5	9887	1.2E-03	11	0924	0930	0936				C3.4		1.9E-03
05	1513	1521	1531	N18	E60	SF	C3.4	9893	2.9E-03	11	1553	1558	1605				C2.0		1.2E-03
05	1716	1723	1733	N15	W36	SF	C3.0	9886	2.8E-03	11	1616	1626	1633	S15	W33	1F	C9.2	9904	6.1E-03
05	1947	1952	1959	N13	W38	SF	C2.9	9885	1.8E-03	11	1833	1838	1843				C7.2		2.8E-03
05	2124	2133	2139				C2.9		2.3E-03	11	2257	2300	2306	N18	W28	SF	C1.6	9893	8.1E-04
05	2239	2243	2246	N13	W39	SF	C3.0	9885	1.1E-03	12	0117	0120	0123				C1.5		4.5E-04
05	2251	2253	2257				C2.8		9.0E-04	12	0142	0146	0153	S12	E36	SF	C1.8	9906	1.1E-03
05	2341	2350	2358				C4.9		3.9E-03	12	0250	0253	0256				C1.9		6.0E-04
06	0133	0138	0143	S17	E48	SF	C2.1		1.2E-03	12	0304	0309	0314	S03	E76	SF	C5.0	9907	2.4E-03
06	0341	0344	0346				C1.6		4.3E-04	12	0448	0512	0519	N16	E05	SF	C3.4	9899	5.3E-03
06	0604	0619	0625	S20	E85	1F	C9.5	9893	7.5E-03	12	0839	0842	0844	S15	E33	SF	C3.0	9906	7.3E-04
06	0957	1000	1006				C1.3		6.5E-04	12	1205	1310	1314				M1.4		4.2E-03
06	1403	1410	1418	N01	W36	SF	C2.6	9887	1.9E-03	12	1557	1603	1612	S04	E66	SF	C7.7	9907	5.5E-03
06	1613	1617	1621	N18	E46	SF	C1.2	9893	5.5E-04	12	1731	1802	1817	N21	W26	1F	M4.0	9901	6.3E-02
06	1945	1955	2000	N17	E45	SF	C2.0	9893	1.5E-03	13	0506	0530	0556				C3.3		7.3E-03
07	0032	0121	0153				C2.0		9.2E-03	13	1008	1013	1020				C3.2		1.7E-03
07	0220	0236	0246	N19	E79	1F	C9.6	9899	1.2E-02	13	1026	1030	1032	S28	W64	SF	C3.6	9900	1.1E-03
07	0443	0449	0459	N18	E41	SF	C1.7	9893	1.6E-03	13	1208	1213	1220	S03	E57	SF	C3.1	9907	1.7E-03
07	0519	0523	0526	N18	E37	SF	C2.7	9893	9.4E-04	13	1331	1337	1342				C2.6		1.4E-03

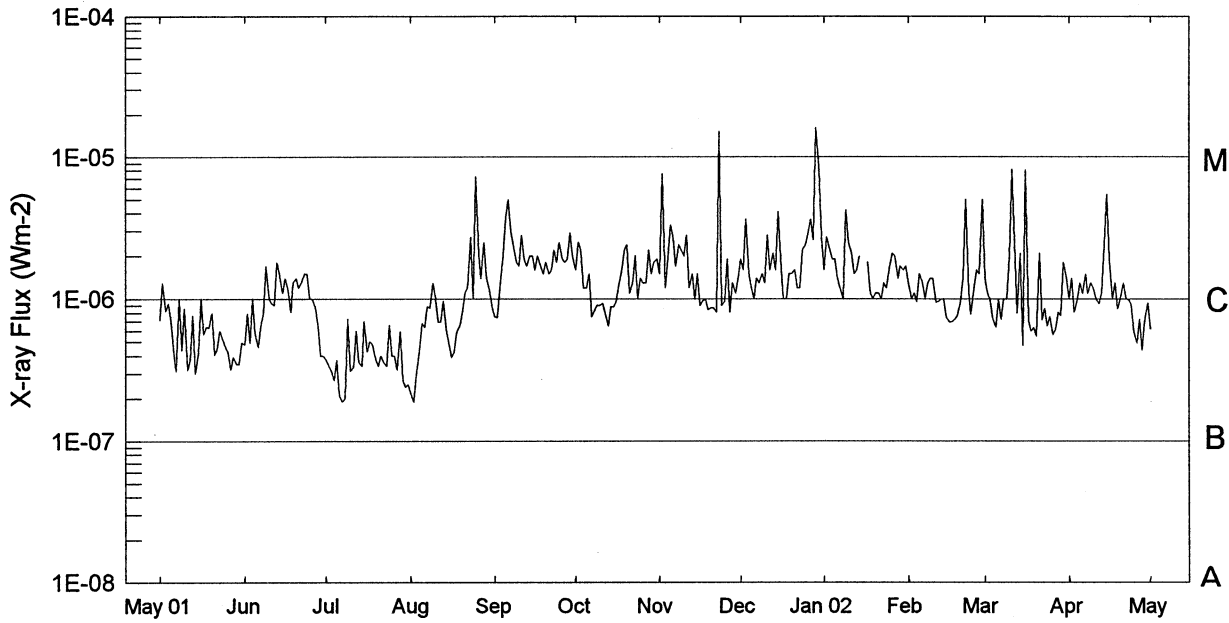
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Apr 02

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

April 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/	
								USAF Region	Flux
13	1515	1525	1533	S15	E16	SF	C1.9	9906	1.7E-03
13	1629	1638	1649	S03	E55	SF	C2.3	9907	2.6E-03
13	1706	1731	1741	N19	W38	SF	C2.9	9901	4.3E-03
13	2159	2206	2218				C3.4		3.4E-03
14	0102	0107	0112	S04	E45	SF	C5.5	9907	2.9E-03
14	0321	0351	0409	N22	W45	1F	M1.4	9893	3.2E-02
14	0448	0452	0456	S04	E42	SN	C8.6	9907	3.4E-03
14	0650	0701	0706	S04	E41	SF	C5.3	9907	4.4E-03
14	0728	0739	0744	N19	W57	SF	C9.6	9893	5.7E-03
14	1337	1350	1415	S16	E04	SF	C3.8	9906	8.1E-03
14	1936	1945	1950				C2.0		1.6E-03
14	2051	2056	2103	S03	E35	SF	C4.4	9907	2.2E-03
14	2104	2125	2143	N19	W62	SF	C7.3	9893	1.3E-02
14	2222	2229	2233	N18	W74	SF	C7.2	9893	3.4E-03
14	2334	0014	0025	N19	W60	SF	M3.7	9893	4.3E-02
15	0246	0251	0255	N19	W79	SF	C9.8	9893	3.8E-03
15	0305	0355	0506	S15	W01	SF	M1.2	9906	7.1E-02
15	0849	0852	0854				C3.0		7.9E-04
15	1139	1142	1144	N27	W71	SF	C3.0	9901	7.0E-04
15	1722	1736	1801	S16	W60	SF	C3.1	9905	5.9E-03
15	1935	1939	1941				C1.6		5.2E-04
15	2305	2324	2341				M1.2	9901	1.9E-02
16	0215	0219	0223				C2.5	9904	1.0E-03
16	0424	0533	0655				C3.8		2.5E-02
16	1037	1044	1054	S14	W77	SF	C9.3	9904	6.2E-03
16	1253	1319	1330				M2.5	9893	2.9E-02
16	1535	1540	1544				C2.9		1.3E-03
17	0035	0040	0043	S13	W83	SF	C9.9	9905	2.6E-03
17	0232	0237	0241	S13	W84	SF	C2.3	9905	1.1E-03
17	0652	0655	0658	S13	W90	SF	C1.8	9905	5.6E-04
17	0746	0824	0957	S14	W34	2N	M2.6	9906	1.5E-01
17	1337	1342	1348	S17	W83	SF	C6.9	9905	4.0E-03
17	1650	1658	1708				C9.8		7.3E-03
17	2259	2304	2307				C4.4		1.5E-03
17	2311	2319	2324				C4.4		2.8E-03
18	0335	0346	0354				C4.0		3.6E-03
18	0527	0530	0533				C1.8		5.6E-04
18	0636	0702	0729				C9.4		2.2E-02
18	1044	1048	1051				C2.6		9.7E-04
18	1430	1433	1435	S04	W16	SF	C1.5	9907	4.0E-04
18	1512	1612	1657				C3.0	9905	1.3E-02
19	0646	0649	0652	S15	W57	SF	C1.7	9906	5.5E-04
19	0658	0704	0707				C3.3		1.3E-03
19	0750	0754	0757	S16	W54	SF	C2.0	9906	7.0E-04
19	0901	0905	0913				C2.3		1.3E-03
19	1516	1521	1527	S16	W59	SF	C2.5	9906	1.4E-03
19	1814	1822	1846	S16	W57	SF	C3.4	9906	5.6E-03
19	2005	2008	2012				C1.6		6.3E-04
19	2107	2116	2130				C2.2		2.6E-03
20	0045	0055	0110				C1.7		2.3E-03
20	0417	0428	0446				C2.4		3.3E-03
20	0513	0519	0525				C2.3		1.5E-03
20	0908	0932	0956				C1.3		3.3E-03
20	1141	1209	1225				C2.7		5.4E-03
20	1419	1426	1450				C2.1		3.4E-03
20	1538	1548	1601	N09	E06	SF	C4.1	9912	4.8E-03
20	1734	1748	1810				C2.2		4.1E-03
20	1944	2014	2035				C2.5		6.0E-03
20	2323	2326	2328				C1.9		4.5E-04
21	0043	0151	0238	S14	W84	1F	X1.5	9906	6.0E-01
21	1725	1730	1733				C7.9		2.7E-03
21	1737	1806	1824				C8.3		1.9E-02
21	2011	2016	2018				C2.9		9.0E-04
21	2151	2156	2158				C3.4		1.0E-03
22	0003	0019	0021				C7.7	9906	3.0E-03
22	0056	0107	0120	N11	E54	SF	C3.5	9915	4.3E-03
22	0448	0506	0520				C2.1		3.3E-03
22	0543	0547	0550	S17	E67	SF	C5.5	9916	1.4E-03
22	1004	1010	1015	N03	E39	SF	C1.3	9914	7.6E-04
22	1154	1210	1220	N12	W19	SF	C2.8	9912	3.0E-03
22	1437	1441	1453	N03	E37	SF	C1.4	9914	1.1E-03
22	2358	0001	0005	N04	E32	SF	C1.6	9914	5.8E-04
23	1541	1546	1549	N12	E28	SF	C1.1	9915	4.5E-04
23	2005	2030	2041				C1.8		2.6E-03
23	2245	2250	2255				C1.2		6.6E-04
24	0409	0415	0424				C1.5		1.3E-03
24	0505	0517	0525				C1.4		1.6E-03
24	0535	0548	0555	S15	W34	SF	C1.7	9913	1.9E-03
24	0625	0642	0657	S16	W34	SF	C1.4	9913	2.2E-03
24	0730	0735	0744	S18	E03	SF	C1.7		1.2E-03
24	0756	0805	0809				C1.4		9.4E-04
24	1013	1025	1030	S17	E00	SF	C1.2		9.6E-04
24	1046	1053	1100	S15	W37	SF	C2.0	9913	1.4E-03
24	1312	1316	1326	S18	E01	SF	C1.0		7.3E-04
24	1420	1434	1441	S14	W40	SF	C1.7	9913	2.0E-03
24	1544	1605	1616	N09	W47	1N	C4.8	9912	7.3E-03
24	1632	1641	1657	S14	E40	SF	C2.3	9916	3.0E-03
24	1743	1754	1805				C1.9		2.3E-03
24	2013	2018	2022				C1.2		5.5E-04
24	2146	2156	2201	N09	W49	1F	M1.7	9912	7.1E-03
25	0536	0540	0545	N10	W56	SF	C2.8	9912	1.0E-03
25	0554	0602	0605				C2.5	9912	1.2E-03
25	1855	1905	1924				C1.6		2.4E-03
26	0133	0141	0150				C1.2		1.1E-03
26	0958	1029	1044				C1.2		2.1E-03
26	1322	1326	1330	N05	W18	SF	B9.0	9914	3.8E-04
26	1452	1504	1516				C2.0		2.3E-03
26	1931	1937	1954				C2.1		2.2E-03
26	2043	2101	2119				C1.6		2.9E-03
26	2247	2256	2314				C1.3		1.9E-03
27	0923	0927	0930				C1.1		3.7E-04
27	1040	1056	1112	N13	E23	SF	C2.1	9919	3.1E-03
27	1529	1540	1557	N16	E22	SF	C4.0	9919	5.1E-03
28	1817	1823	1841	S15	W57	SF	C1.0	9924	1.2E-03
28	2054	2103	2113	N15	W39	SF	C1.2	9915	1.3E-03
28	2231	2241	2256				C1.3		1.9E-03
29	0530	0537	0602				C2.2		3.9E-03
29	0922	0928	0931				C3.4		1.4E-03
29	0935	0940	0944				C4.8		1.8E-03
29	1032	1058	1101				C4.1		3.6E-03
29	1257	1303	1315				C2.2		2.0E-03
29	2005	2015	2037	N10	W49	SF	C2.7	9915	4.3E-03
30	0026	0036	0042				C7.8		4.6E-03
30	0342	0350	0401				C3.1		2.7E-03
30	0647	0653	0658	N15	W19	SF	C3.2	9919	1.5E-03
30	0817	0822	0827				M1.3		4.9E-03
30	1106	1118	1129	N11	W71	SF	C3.2	9914	3.4E-03
30	1410	1418	1427				C3.7		3.1E-03

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



Day	May 01	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02	Feb	Mar	Apr
1	B7.1	B4.8	B3.8	B2.2	B7.5	C1.6	C1.5	C1.9	C1.6	C1.3	C1.4	C1.0
2	C1.3	B7.9	B3.4	B1.9	B7.4	C2.5	C7.5	C1.6	C2.7	C1.0	C1.1	C1.4
3	B8.2	B4.9	B3.1	B3.0	C1.2	C2.2	C1.2	C3.6	C2.3	C1.1	B9.8	B8.1
4	B9.3	C1.0	B2.7	B4.1	C2.0	C1.2	C1.7	C1.5	C1.9	B9.6	B7.3	C1.0
5	B7.1	B5.6	B3.7	B6.8	C3.7	C1.2	C3.3	C1.2	C1.9	C1.5	B6.4	C1.3
6	B4.0	B4.6	B2.1	B6.4	C5.0	C1.5	C2.7	C1.0	C1.4	C1.3	B9.9	C1.1
7	B3.1	B6.6	B1.9	B8.9	C3.0	B7.5	C1.7	C1.4	C1.2	C1.0	B7.2	C1.5
8	C1.0	B7.9	B2.0	B8.7	C2.4	B8.4	C2.4	C1.3	C1.0	C1.3	C1.0	C1.1
9	B4.4	C1.7	B7.3	C1.3	C1.8	B9.1	C2.2	C1.5	C4.2	C1.4	C1.0	C1.3
10	B8.6	C1.0	B3.1	C1.0	C1.7	B9.0	C2.0	C1.3	C2.5	C1.4	C2.0	C1.2
11	B3.2	B9.3	B3.3	B6.9	C2.8	B9.3	C2.8	C2.8	C2.1	B9.5	C8.1	C1.0
12	B3.7	B9.0	B6.0	B6.9	C1.9	B8.0	C1.2	C1.6	C1.5	B9.6	C2.5	B9.3
13	B7.7	C1.8	B3.6	B9.7	C1.7	B6.5	C1.5	C2.1	C1.6	C1.0	B8.0	C1.1
14	B3.0	C1.5	B3.4	B5.9	C2.0	B8.9	C1.0	C1.6	C2.0	C1.0	C2.1	C2.4
15	B4.2	C1.1	B7.0	B4.8	C2.0	B8.9	C1.5	C4.1	*	B7.4	B4.7	C5.4
16	C1.0	C1.4	B4.3	B3.9	C1.6	B9.5	B9.1	C1.6	*	B6.9	C8.0	C1.9
17	B5.7	C1.2	B5.0	B4.3	C2.0	C1.3	B9.8	C1.0	C1.8	B6.9	B7.0	C1.0
18	B6.4	B8.1	B4.8	B5.9	C1.7	C1.6	B9.9	C1.0	C1.1	B7.2	B6.0	C1.3
19	B6.3	C1.3	B3.8	B6.5	C1.5	C2.2	B8.4	C1.5	C1.0	B7.6	B6.3	B8.6
20	B8.0	C1.4	B3.4	B8.1	C1.8	C2.4	B8.7	C1.5	C1.1	B9.5	B5.5	C1.0
21	B4.1	C1.2	B4.0	C1.1	C1.5	C1.1	B8.7	C1.6	C1.1	C1.4	C2.1	C1.3
22	B4.5	C1.3	B3.6	C1.2	C1.6	C1.3	B8.1	C1.2	C1.0	C5.0	B7.1	C1.0
23	B6.0	C1.5	B3.4	C2.7	C2.2	C2.0	M1.5	C1.2	C1.3	C1.1	B8.6	B9.9
24	B5.3	C1.5	B6.6	C1.0	C1.8	C1.0	B9.0	C2.2	C1.2	B7.8	B6.5	B9.2
25	B4.6	C1.0	B4.0	C7.2	C2.5	C1.4	B9.6	C2.4	C1.7	C1.2	B7.5	B5.9
26	B4.2	C1.0	B4.0	C2.0	C1.9	C1.3	C1.9	C2.9	C2.1	C1.6	B5.6	B4.9
27	B3.2	B8.8	B3.2	C1.4	C1.8	C1.3	B8.1	C3.6	C2.0	C1.5	B6.1	B7.2
28	B3.9	B6.5	B5.9	C2.5	C1.9	C2.2	C1.3	C2.6	C1.4	C5.0	B8.1	B4.4
29	B3.5	B4.0	B2.7	C1.4	C2.9	C1.5	C1.1	M1.6	C1.7		B7.7	B7.1
30	B3.5	B4.0	B2.4	C1.2	C2.0	C1.8	C1.4	C8.4	C1.6		C1.8	B9.4
31	B4.9		B2.5	B8.7		C1.9		C2.7	C1.7		C1.4	

NOTE: * = Data not available.

ACTIVE PROMINENCES AND FILAMENTS

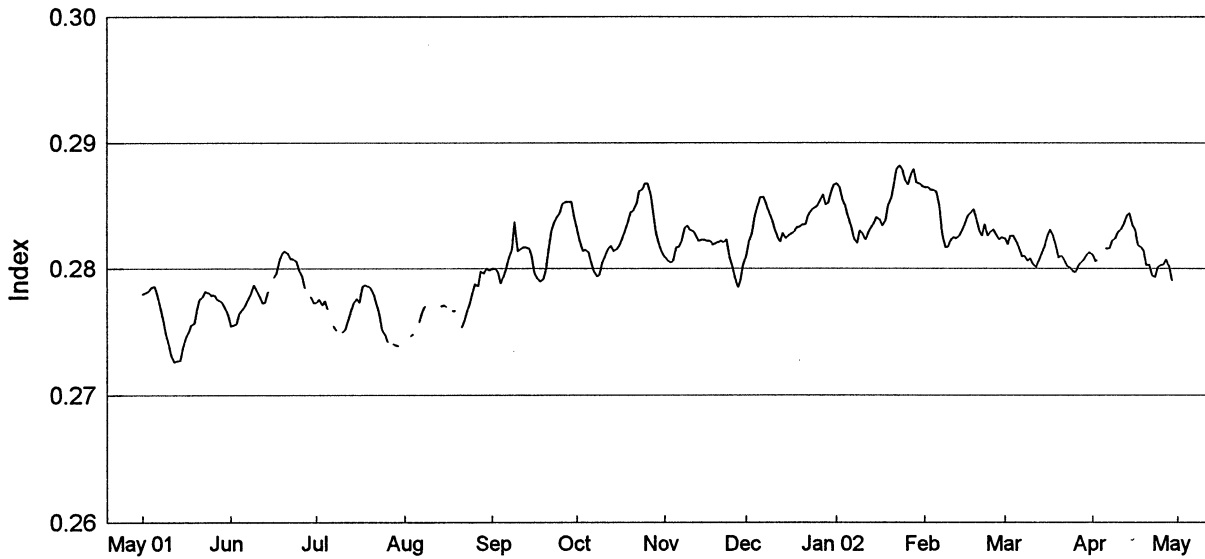
APRIL 2002

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
04	EPL	1349E	0000	S30	W90	03	28.6	2		5	8	E	HOLL		
04	EPL	1406E	0000	S29	W90	03	28.6	3		1	4	E	RAMY		
07	BSL	0225	0302	N19	E90	04	14.0			9	9	E	LEAR	9899	Flare Associated
09	EPL	0720	0806	N10	W90	04	2.5	3		9	9	E	LEAR	9887	
10	DSF	0027U	1329U	S20	E13	04	11.0			0	0	E	HOLL		
10	DSF	0927U	2358U	N18	E23	04	12.1		09	0	0	E	LEAR	9899	
10	DSF	1418U	1327U	N14	E23	04	12.3		07	0	0	E	SVTO	9899	
10	DSF	2025U	1307U	N41	E08	04	11.5		05	0	0	E	RAMY		
11	DSF	0905U	2352U	S19	E66	04	16.4		08	0	0	E	LEAR		
12	DSD	1322	1335	N18	W41	04	9.5	1	04	9	9	V	KHAR		
15	BSL	0249	0401	N20	W90	04	8.2			9	9	E	LEAR	9893	Flare Associated
16	BSL	0204	0227	S11	W90	04	9.3			7	8	E	LEAR	9904	
17	BSL	0828	0852	S12	W90	04	10.6			9	9	E	LEAR	9905	
17	BSL	0832	0000	S10	W90	04	10.6			9	9	E	SVTO	9905	
17	EPL	1332	1428	S11	W90	04	10.8	3		9	9	E	RAMY	9905	Flare Associated
17	EPL	1350	1450	S14	W90	04	10.8	3		9	9	E	HOLL	9905	Flare Associated
18	EPL	1115	1205	S43	W90	04	11.0	3		9	9	E	RAMY		
18	EPL	1534E	1730D	S09	W90	04	11.9	3		9	9	E	RAMY	9905	
18	EPL	1539	1610	S10	W90	04	11.9	3		9	9	E	SVTO	9905	
18	EPL	1540	1615	S18	W90	04	11.8	3		7	4	E	HOLL	9905	
21	LPS	0201	0956	S12	W90	04	14.3			9	9	E	LEAR	9906	Flare Associated
21	LPS	0726E	1215	S12	W90	04	14.5			9	9	E	SVTO	9906	Flare Associated
22	BSL	0013	0033	S22	W90	04	15.1			9	9	E	LEAR	9906	
22	DSF	0827U	2319U	S28	E05	04	22.7		17	0	0	E	LEAR		
22	DSF	2230	2325	S29	W07	04	22.4	2	22	0	0	E	HOLL		
23	DSF	0827U	2319U	S28	E05	04	23.7		17	0	0	E	LEAR		
23	DSF	0827U	2319U	S28	W05	04	23.0		17	0	0	E	LEAR		
23	EPL	2344	0021	S18	W90	04	17.1	3		9	9	E	LEAR	9906	
24	EPL	1308E	1809D	S23	E90	05	1.5	3		9	9	E	HOLL		
26	DSF	0833U	2324U	S38	W05	04	25.9		13	0	0	E	LEAR		
26	DSF	1640U	0453U	S29	W19	04	25.2		12	0	0	E	SVTO		
26	DSF	1757U	1835	S32	W17	04	25.4	3	34	9	9	E	HOLL	9917	
27	DSF	0722	0749	S14	W40	04	24.3	3	08	0	0	E	LEAR	9924	
27	DSF	0729	0750	S12	W43	04	24.1	3	09	0	0	E	SVTO	9924	
27	EPL	0818	0850	S21	W90	04	20.4	3		9	9	E	LEAR		
27	EPL	0853E	0000	S21	W90	04	20.5	3		9	9	E	SVTO		
27	EPL	0853E	1010	S21	W90	04	20.5	3		9	9	E	SVTO		
28	ADF	1030E	1050	N21	W43	04	25.2	1	07	9	9	V	KHAR		
30	APR	0822E	0914D	S22	E90			1	5			P	WROC		
30	APR	0822E	1221D	S26	E90			1	4			P	WROC		

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

May 2001 - Apr 2002

Version 9.1



Day	May 01	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02	Feb	Mar	Apr
1	0.2780	0.2754	0.2773	0.2738	0.2800	0.2831	0.2809	0.2821	0.2868	0.2865	0.2824	0.2811
2	0.2781	0.2755	0.2775	---	0.2800	0.2822	0.2807	0.2828	0.2865	0.2865	0.2819	0.2806
3	0.2782	0.2756	0.2771	0.2746	0.2797	0.2814	0.2805	0.2841	0.2855	0.2863	0.2826	0.2807
4	0.2785	0.2764	0.2774	0.2748	0.2788	0.2815	0.2806	0.2850	0.2849	0.2863	0.2826	---
5	0.2786	0.2767	0.2767	---	0.2794	0.2813	0.2817	0.2857	0.2841	0.2861	0.2822	---
6	0.2780	0.2770	---	0.2757	0.2800	0.2805	0.2817	0.2857	0.2833	0.2849	0.2817	0.2816
7	0.2769	0.2775	0.2754	0.2764	0.2808	0.2798	0.2821	0.2851	0.2824	0.2828	0.2810	0.2816
8	0.2760	0.2780	0.2750	0.2770	0.2815	0.2794	0.2832	0.2844	0.2820	0.2817	0.2810	0.2822
9	0.2747	0.2787	---	---	0.2837	0.2795	0.2834	0.2839	0.2830	0.2817	0.2806	0.2824
10	0.2740	0.2783	0.2749	---	0.2814	0.2804	0.2831	0.2832	0.2828	0.2823	0.2808	0.2829
11	0.2731	0.2779	0.2751	---	0.2815	0.2810	0.2830	0.2825	0.2823	0.2825	0.2803	0.2831
12	0.2726	0.2773	0.2759	---	0.2817	0.2815	0.2827	0.2821	0.2828	0.2824	0.2801	0.2835
13	0.2727	0.2773	0.2766	---	0.2817	0.2818	0.2822	0.2828	0.2832	0.2826	0.2807	0.2842
14	0.2727	0.2782	0.2772	0.2770	0.2816	0.2814	0.2823	0.2824	0.2836	0.2830	0.2812	0.2844
15	0.2737	---	0.2776	0.2771	0.2810	0.2815	0.2823	0.2826	0.2841	0.2835	0.2817	0.2834
16	0.2745	0.2793	0.2773	0.2769	0.2797	0.2818	0.2822	0.2828	0.2839	0.2842	0.2826	0.2831
17	0.2749	0.2796	0.2786	---	0.2792	0.2823	0.2822	0.2829	0.2834	0.2844	0.2831	0.2819
18	0.2755	0.2807	0.2787	0.2766	0.2790	0.2830	0.2819	0.2833	0.2838	0.2847	0.2827	0.2817
19	0.2756	0.2812	0.2786	0.2766	0.2791	0.2836	0.2820	0.2833	0.2850	0.2840	0.2818	0.2814
20	0.2767	0.2814	0.2784	---	0.2798	0.2845	0.2821	0.2835	0.2856	0.2830	0.2809	0.2803
21	0.2775	0.2812	0.2780	0.2753	0.2816	0.2846	0.2822	0.2835	0.2867	0.2826	0.2810	0.2803
22	0.2777	0.2808	0.2771	0.2758	0.2830	0.2851	0.2821	0.2842	0.2879	0.2835	0.2807	0.2795
23	0.2782	0.2808	0.2763	0.2765	0.2836	0.2862	0.2823	0.2846	0.2882	0.2826	0.2802	0.2793
24	0.2781	0.2806	0.2751	0.2773	0.2841	0.2863	0.2808	0.2848	0.2879	0.2829	0.2801	0.2801
25	0.2779	0.2799	0.2747	0.2781	0.2844	0.2868	0.2802	0.2849	0.2870	0.2831	0.2798	0.2803
26	0.2779	0.2794	0.2741	0.2788	0.2851	0.2868	0.2793	0.2853	0.2867	0.2827	0.2797	0.2803
27	0.2776	0.2784	---	0.2786	0.2853	0.2859	0.2785	0.2859	0.2875	0.2823	0.2802	0.2807
28	0.2774	---	0.2740	0.2798	0.2853	0.2844	0.2791	0.2851	0.2879	0.2825	0.2805	0.2801
29	0.2772	0.2777	0.2739	0.2796	0.2853	0.2829	0.2803	0.2852	0.2869		0.2807	0.279
30	0.2767	0.2773	0.2738	0.2800	0.2842	0.2819	0.2810	0.2861	0.2868		0.2811	0.2786
31	0.2762		---	0.2799		0.2813		0.2867	0.2866		0.2813	
Mean	0.2763	0.2785	0.2764	0.2771	0.2817	0.2827	0.2816	0.2841	0.2851	0.2836	0.2812	0.2814

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