

Solar-Geophysical Data comprehensive reports



Data for July 1999 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

LATE DATA:

Geomagnetic Dst Index: Oct 1999

Flare Index of Solar Activity
Importance X Duration: Jan 1996 - Dec 1998

NGDC On-Line Addresses:

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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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D. James Baker, Administrator

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Gregory W. Withee, Assistant Administrator

JANUARY 2000 NUMBER 665 - Part II

Solar-Geophysical Data comprehensive reports

Data for July 1999 and Late Data

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Michael S. Loughridge, Director

Boulder, Colorado

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Number 665

(Issued in Two Parts)

Editor: Helen E. Coffey

Chief: Herbert W. Kroehl
Solar-Terrestrial Physics Division

Staff: Edward H. Erwin
Susan E. Wahl

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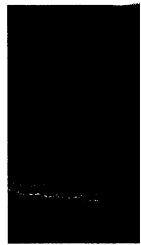
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Jul 99

H α SOLAR FLARES

JULY 1999

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Mo	Day							Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	HOLL	01	0001	0002	0008	N25	W54	8598	06	26.9	7	SF	3	E		13	
0002	HOLL	01	0004	0004	0009	S16	W12	8603	06	30.1	5	SF	3	E		15	
0003	LEAR	01	0014	0022	0036	S26	E19	8611	07	2.5	22	SF	3	E		24	
0004	LEAR	01	0037	0110	0131	S26	E19	8611	07	2.5	54	SF	3	E		53	F
0005		01	01031	01045	0120	N20	W18	8602	06	29.8	17	SF				18	
	LEAR	01	0103	0104	0122	N19	W17	8602	06	29.8	19	SF	3	E		17	
	HOLL	01	0104	0109	0119	N20	W20	8602	06	29.6	15	SF	3	E		18	
0006	LEAR	01	0142	0146	0212	S15	W16	8603	06	29.9	30	SF	3	E		94	
0007	LEAR	01	0211	0220	0255	N13	W24	8610	06	29.4	44	SF	3	E		31	F
0008	LEAR	01	0300	0309	0328	S25	E19	8611	07	2.6	28	SF	3	E		23	
0009	LEAR	01	0419	0421	0425	S27	E17	8611	07	2.5	6	SF	3	E		16	
0010	LEAR	01	0535	0537	0551	N15	W21	8602	06	29.7	16	SF	3	E		19	F
0011	SVTO	01	0640	0706	0725	S25	E15	8611	07	2.4	45	SF	3	E		29	
0012		01	0706	07091	0724	N20	W62	8596	06	26.6	18	SN				50	EF
	LEAR	01	0706	0709	0726	N21	W62	8596	06	26.6	20	SN	3	E		67	E
	SVTO	01	0706	0710	0721	N20	W62	8596	06	26.6	15	SF	3	E		32	F
0013	SVTO	01	0802	0807	0817	S25	E16	8611	07	2.6	15	SF	3	E		14	
0014		01	0809E	08102	0818	N17	E66	8613	07	6.3	9D	SF				40	H
	LEAR	01	0809E	0810	0819	N17	E66	8613	07	6.3	10D	SF	3	E		49	H
	SVTO	01	0812E	0812	0818	N17	E66	8613	07	6.3	6D	SF	3	E		32	H
0015	SVTO	01	0823	0829	0838	S27	E17	8611	07	2.7	15	SF	3	E		26	F
0016	LEAR	01	0843	0854	0919	S27	E14	8611	07	2.4	36	SF	3	E		37	
0017	LEAR	01	0839	0840	0844	S17	W17	8603	06	30.1	5	SF	3	E		17	
0018		01	08497	08573	0906	S15	W22	8612	06	29.8	17	SF				16	
	LEAR	01	0849	0857	0907	S15	W21	8612	06	29.9	18	SF	3	E		17	
	SVTO	01	0856	0900	0904	S15	W23	8612	06	29.7	8	SF	3	E		16	
0019	SVTO	01	1014	1014	1021	S26	E15	8611	07	2.6	7	SF	3	E		11	
0020	SVTO	01	1024	1027	1037	S27	E16	8611	07	2.7	13	SF	3	E		19	
0021	SVTO	01	1057	1057	1109	S15	W22	8603	06	29.9	12	SF	3	E		27	
0022	SVTO	01	1246	1251	1258	S26	E14	8611	07	2.6	12	SF	3	E		17	
0023	HOLL	01	1257	1259	1303	S15	W23	8603	06	29.9	6	SF	3	E		15	
0024		01	13054	13101	1322	N20	W66	8596	06	26.6	17	SF				41	
	HOLL	01	1305	1310	1324	N20	W65	8596	06	26.7	19	SF	3	E		56	
	SVTO	01	1309	1311	1319	N21	W67	8596	06	26.5	10	SF	3	E		26	
0025		01	1345	13462	1418	S14	W18	8603	06	30.2	33	1N				134	F
	SVTO	01	1345	1346	1416	S14	W19	8603	06	30.1	31	SF	3	E		70	F
	HOLL	01	1345	1348	1420	S14	W16	8603	06	30.4	35	1N	3	E		199	F
0026	SVTO	01	1524	1526	1529	S15	W16	8603	06	30.4	5	SF	3	E		35	
0027		01	1528	1532	1610	N12	W34	8610	06	29.2	42	1F				132	U
	SVTO	01	1528	1532	1610	N12	W34	8610	06	29.2	42	1F	3	E		110	U
	HOLL	01	1539E	1539U	1609	N12	W34	8610	06	29.2	30D	1F	3	E		155	U
0028	SVTO	01	1549	1549	1552	S15	W23	8603	06	30.0	3	SF	3	E		18	

H α SOLAR FLARES

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Jul 99

JULY 1999

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)		
0029	SVTO	01	1619	1621	1627	N20	W64	8592	06	26.9	8	SF		3	E		10			
0030	SVTO	01	1719E	1748U	1753D	S14	W19	8603	06	30.3	34D	SF		3	E		14			
0031	HOLL	01	1732	1743	1815	S25	E12	8611	07	2.7	43	SF		3	E		95			F
0032	HOLL	01	1818	1820	1828	S16	W21	8603	06	30.2	10	SF		3	E		31			
0033	HOLL	01	1902	1907	1913	S25	E14	8611	07	2.9	11	SF		3	E		27			
0034	HOLL	01	1914	1918	1920	S25	E09	8611	07	2.5	6	SF		3	E		12			
0035	HOLL	01	1926	1927	1946	S15	W25	8603	06	30.0	20	SF		3	E		18			
0036	HOLL	01	2028	2040	2127	S25	E12	8611	07	2.8	59	SF		3	E		52			F
0037	HOLL	01	2055	2055	2100	N16	W34	8602	06	29.4	5	SF		3	E		15			
0038	HOLL	01	2139	2145	2158	N24	W67	8598	06	26.8	19	1F		3	E		118			EH
0039	HOLL	01	2325	2329	2356	S15	W27	8603	06	30.0	31	1N		3	E		204			E
0040	LEAR	01	2333E	2334U	2336	S15	W20	8603	06	30.5	3D	SF		1	E		18			
0041	HOLL	01	2353	2401	2406	S24	E06	8611	07	2.4	13	SF		3	E		14			
0042	LEAR	02	0113	0126	0139	N21	W72	8592	06	26.6	26	SF		3	E		42			
0043	LEAR	02	0121	0122	0136	N19	E59	8614	07	6.5	15	SF		3	E		15			
0044		02	01324	01373	0232	S26	E06	8611	07	2.5	60	1B					260	0.3		D
		02	0132	0137	0322	S27	E05	8611	07	2.4	110	1B		3	E		239			
		02	0136	0140	0143	S25	E07	8611	07	2.6	7	SN			C	0140	280	0.3		D
0045	LEAR	02	0320	0322	0334	N17	W37	8602	06	29.4	14	SF		3	E		61			
0046	LEAR	02	0344	0345	0420	N18	E44	8613	07	5.5	36	SF		3	E		50			
0047		02	0445	0512*	0542	N18	W35	8602	06	29.6	57	SF					64			F
		02	0445	0512	0548	N19	W35	8602	06	29.6	63	SF		3	E		68			F
		02	0445	0512	0548	N18	W36	8602	06	29.5	63	SF		3	E		59			
		02	0518E	0522	0530	N18	W33	8602	06	29.8	12D	SF		2	C					
0048	LEAR	02	0452	0455	0458	N20	E57	8613	07	6.6	6	SF		3	E		18			
0049	LEAR	02	0503	0504	0509	N18	E44	8613	07	5.6	6	SF		3	E		12			
0050	LEAR	02	0717	0722	0730	S15	W24	8603	06	30.5	13	SN		3	E		99			
0051		02	07193	07211	0730	S16	W32	8603	06	30.0	11	SF					31			
		02	0719	0721	0730	S15	W33	8603	06	29.9	11	SF		3	E		31			
		02	0722	0722	0730	S16	W32	8603	06	30.0	8	SF		2	C					
0052		02	07461	07491	0752	N18	W36	8602	06	29.7	6	SF					24			
		02	0746	0750	0754	N18	W34	8602	06	29.8	8	SF		2	C					
		02	0747	0749	0751	N17	W39	8602	06	29.5	4	SF		3	E		24			
0053	LEAR	02	0752	0759	0803	N17	W39	8602	06	29.5	11	SF		3	E		34			
0054		02	08291	08301	0836	S26	E09	8611	07	3.0	7	SF					28			H
		02	0829	0830	0837	S26	E09	8611	07	3.0	8	SF		3	E		33			H
		02	0830	0831	0835	S26	E09	8611	07	3.0	5	SF		3	E		23			H
0055	SVTO	02	0900	0900	0910	S15	W33	8603	06	30.0	10	SF		3	E		12			
0056	LEAR	02	0901	0901	0908	S15	W25	8603	06	30.5	7	SF		3	E		12			
0057	KHAR	02	1005		1025	N09	W46	8610	06	29.1	20	SF		2	V					E

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Jul 99

H α SOLAR FLARES

JULY 1999

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								USAF Region							Mo	Day	Time (UT)	
0058	KHAR	02	1040		1050	S19	W29	8603	06	30.2	10	SF	2	V				DH
0059	KHAR	02	1050	1107U	1120D	N10	W44	8610	06	29.2	30D	SN	2	V				
0060	KHAR	02	1108		1114	N17	W42	8602	06	29.4	6	SF	2	V				
0061	KHAR	02	1111		1120D	N22	E70	8620	07	7.8	9D	SF	2	V				
0062	KANZ	02	1125E		1125D	N18	E79	8620	07	8.5	9D	SF	2	C				
0063		02	1136	1137*	1239	N15	W37	8602	06	29.8	63	SF					73	EFHK
	KHAR	02	1134E	1137	1200D	N15	W33	8602	06	30.0	26D	1N	2	V				HKE
	SVTO	02	1136	1152	1239	N15	W39	8602	06	29.6	63	SF	3	E			73	F
	KANZ	02	1212E		1232D	N15	W38	8602	06	29.7	20D	SF	2	C				
0064	SVTO	02	1516	1521	1610	S27	E01	8611	07	2.7	54	SF	3	E			57	
0065	KANZ	02	1718	1722	1726	S15	W41	8603	06	29.7	8	SF	2	C				
0066	HOLL	02	1752	1753	1816	S15	W31	8603	06	30.4	24	SF	3	E			28	
0067	HOLL	02	2028	2033	2035	S24	W03	8611	07	2.6	7	SF	3	E			20	F
0068	HOLL	02	2036	2037	2043	S24	W03	8611	07	2.6	7	SF	3	E			29	
0069	HOLL	02	2044	2054	2108	S23	W05	8611	07	2.5	24	SF	3	E			45	F
0070	LEAR	03	0027	0031	0034	S15	W40	8603	06	30.0	7	SF	3	E			61	
0071	LEAR	03	0056	0101	0103	S15	W34	8603	06	30.5	7	SF	3	E			32	
0072	LEAR	03	0129	0129	0134	S26	W05	8611	07	2.7	5	SF	3	E			25	
0073	LEAR	03	0327	0342	0350	N18	W46	8602	06	29.7	23	SF	4	E			24	
0074	SVTO	03	0452	0507	0515	N23	W77	8598	06	27.4	23	SF	3	E			26	
0075	LEAR	03	0505	0507	0513	N22	W65	8598	06	28.3	8	SF	4	E			17	
0076		03	0509I	0511	0516	S28	E61	8615	07	8.0	7	SF					30	
	LEAR	03	0509	0511	0518	S28	E63	8615	07	8.1	9	SF	4	E			47	
	SVTO	03	0510	0511	0515	S29	E59	8615	07	7.8	5	SF	3	E			14	
0077	SVTO	03	0521	0521	0526	S16	W69	8599	06	28.1	5	SF	3	E			19	
0078	KANZ	03	0616	0616	0620	S15	W49	8603	06	29.6	4	SF	2	C				
0079		03	0720I	0724	0736	S26	W10	8611	07	2.5	16	SF					18	
	KANZ	03	0720	0724	0736	S25	W13	8611	07	2.3	16	SF	2	C				
	SVTO	03	0721	0724	0736	S27	W08	8611	07	2.7	15	SF	3	E			18	
0080	KANZ	03	0728	0728	0732	S28	E59	8615	07	7.9	4	SF	2	C				
0081	SVTO	03	0751	0753	0757	S15	W38	8603	06	30.4	6	SF	3	E			28	
0082		03	0752	0752I	0756	S15	W52	8603	06	29.5	4	SN					18	
	KANZ	03	0752	0752	0756	S15	W50	8603	06	29.6	4	SN	2	C				
	LEAR	03	0752	0753	0756	S15	W53	8603	06	29.4	4	SF	4	E			18	
0083	LEAR	03	0808	0809	0817	N19	W52	8602	06	29.5	9	SF	4	E			38	F
0084		03	0823I	0827I	0833	S16	W39	8603	06	30.4	10	SF					44	F
	LEAR	03	0823	0827	0834	S15	W38	8603	06	30.5	11	SF	4	E			73	F
	KANZ	03	0824	0828	0832	S17	W40	8603	06	30.3	8	SF	2	C				
	SVTO	03	0826	0829	0834	S15	W38	8603	06	30.5	8	SF	3	E			16	
0085	KANZ	03	0900	0904	0920	S30	W14	8611	07	2.3	20	SF	2	C				
0086	SVTO	03	1117	1118	1127	S14	W46	8603	06	30.0	10	SF	3	E			53	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray Opt	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0087	KANZ	03	1120	1120	1128	S13	W30		07	1.2	8	SF	2	C					
0088	KANZ	03	1408	1412	1428	N25	E67	8620	07	8.8	20	SF	2	C					
0089	KANZ	03	1448	1448	1452	N12	W61	8610	06	29.1	4	SF	2	C					
0090		03	15041	15041	1512	N26	W80	8598	06	27.5	8	SF							43
	KANZ	03	1504	1504	1512	N28	W79	8598	06	27.5	8	SF	2	C					
	SVTO	03	1505	1505	1511	N23	W82	8598	06	27.4	6	SF	3	E					43
0091	SVTO	03	1613	1614	1626	S15	W43	8603	06	30.4	13	SF	3	E					20
0092	HOLL	03	1858	1901	1939	S26	W15	8611	07	2.6	41	SF	3	E					63
0093	HOLL	03	1905	1908	1913	N19	W58	8602	06	29.5	8	SF	3	E					13
0094	RAMY	03	1910E	1910U	1928D	S20	W25	8611	07	1.9	18D	SF	3	E					32
0095	RAMY	03	1940E	1941U	1953D	N18	W55	8602	06	29.7	13D	SF	3	E					42
0096		03	2000	2027U	2111	N16	W57	8602	06	29.6	71	1F							120
	HOLL	03	2000	2027U	2111	N16	W55	8602	06	29.8	71	1F	3	E					149
	RAMY	03	2000E	2032U	2057D	N15	W59	8602	06	29.5	57D	SF	3	E					92
		03	2019		2026	No Flare Patrol													
0097	HOLL	03	2044	2049	2101	S25	W18	8611	07	2.5	17	SF	3	E					33
0098	HOLL	03	2101	2101	2109	S26	W17	8611	07	2.5	8	SF	3	E					16
0099	HOLL	03	2238	2239	2245	N22	W58	8598	06	29.6	7	SF	3	E					91
0100	LEAR	04	0006	0022	0038	S24	W23	8611	07	2.2	32	SF	3	E					34
0101	LEAR	04	0242	0245	0247	S15	W51	8603	06	30.2	5	SF	3	E					49
0102		04	06013	06031	0623	S25	W23	8611	07	2.5	22	SF							37
	SVTO	04	0601	0603	0622	S27	W20	8611	07	2.7	21	SF	3	E					36
	LEAR	04	0602	0604	0620	S24	W23	8611	07	2.5	18	SF	3	E					38
	KANZ	04	0604	0604	0628	S24	W25	8611	07	2.3	24	SF	2	C					
0103		04	07226	07266	0742	N14	W47	8617	06	30.7	20	SF							23
	LEAR	04	0722	0726	0743	N15	W46	8617	06	30.8	21	SF	3	E					23
	KANZ	04	0728	0732	0740	N14	W48	8617	06	30.7	12	SF	2	C					
0104		04	08222	08253	0856	S24	W24	8611	07	2.5	34	1N							135
	LEAR	04	0822	0825	0853	S24	W25	8611	07	2.4	31	1N	3	E					135
	KANZ	04	0824	0828	0900	S24	W24	8611	07	2.5	36	1F	2	C					
0105	SVTO	04	0923	0924	0937	S27	W22	8611	07	2.7	14	SF	3	E					25
0106	KANZ	04	0924	0924	0932	S24	W30	8611	07	2.1	8	SF	2	C					
0107		04	11302	1132	1140	S25	W23	8611	07	2.7	10	SF							20
	RAMY	04	1129E	1129U	1143D	S24	W23	8611	07	2.7	14D	SF	3	E					21
	SVTO	04	1130	1132	1141	S27	W23	8611	07	2.7	11	SF	3	E					19
	KANZ	04	1132	1132	1140	S24	W24	8611	07	2.6	8	SF	2	C					
0108		04	11422	1148	1200	S26	W26	8611	07	2.5	18	SF							52
	SVTO	04	1142	1148	1205	S27	W23	8611	07	2.7	23	SF	3	E					52
	KANZ	04	1144	1148	1156	S26	W28	8611	07	2.3	12	SF	2	C					
0109		04	11351	11444	1204	N21	E33	8614	07	7.0	29	SF							43
	RAMY	04	1134E	1139U	1218D	N21	E32	8614	07	6.9	44D	SF	3	E					50
	SVTO	04	1135	1148	1207	N20	E35	8614	07	7.1	32	SF	3	E					36
	KANZ	04	1136	1144	1200	N21	E31	8614	07	6.8	24	SF	2	C					
0110		04	12189	1218*	1230	S16	W86	8599	06	28.1	12	SF							30
	SVTO	04	1218	1218	1222	S16	W86	8599	06	28.1	4	SF	3	E					17
	SVTO	04	1227	1231	1239	S16	W86	8599	06	28.1	12	SF	3	E					42

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0111	SVTO	04	1227	1227	1235	S15	W54	8603	06	30.4	8	SF	3	E		11		
0112	KANZ	04	1228	1232	1240D	S17	W55	8603	06	30.3	12D	SF	2	C				
0113	HOLL	04	1254	1259	1303	S17	W61	8603	06	30.0	9	SF	2	E		17		
0114	HOLL	04	1314	1318	1336	S18	W57	8603	06	30.2	22	SF	3	E		36		F
0115		04	14362	14372	1444	S24	W28	8611	07	2.4	8	SF				16		F
	HOLL	04	1436	1437	1443	S25	W28	8611	07	2.4	7	SF	3	E		13		F
	RAMY	04	1438	1439	1444	S24	W27	8611	07	2.5	6	SF	3	E		19		
0116		04	16111	16165	1659	S25	W28	8611	07	2.5	48	SF				72		F
	SVTO	04	1611	1620	1731	S27	W26	8611	07	2.6	80	1F	3	E		117		
	HOLL	04	1611	1621	1648	S25	W29	8611	07	2.4	37	SF	3	E		62		F
	RAMY	04	1612	1616	1637	S24	W29	8611	07	2.4	25	SF	3	E		38		F
0117		04	1613*	1615*	1625	S15	E48	8618	07	8.3	12	SF				22		
	HOLL	04	1613	1615	1618	S15	E48	8618	07	8.3	5	SF	3	E		26		
	RAMY	04	1625	1629	1632	S15	E48	8618	07	8.3	7	SF	3	E		17		
0118	HOLL	04	1625	1627	1631	S15	E40	8618	07	7.7	6	SF	3	E		12		
0119	SVTO	04	1625	1625	1630	S15	W56	8603	06	30.4	5	SF	3	E		12		
0120	SVTO	04	1656	1705	1734	N20	E32	8614	07	7.1	38	SF	3	E		12		
0121		04	1723	17246	1731	N18	W70	8602	06	29.5	8	SF				20		
	SVTO	04	1723	1724	1733	N19	W70	8602	06	29.5	10	SF	3	E		19		
	HOLL	04	1723	1725	1729	N19	W70	8602	06	29.5	6	SF	3	E		22		
	RAMY	04	1727E	1730	1747D	N16	W71	8602	06	29.4	20D	SF	3	E		19		
0122	HOLL	04	1754	1807	1829	S26	W31	8611	07	2.3	35	SF	3	E		38		
0123	HOLL	04	1846	1849	1851	S26	W31	8611	07	2.4	5	SF	3	E		18		
0124	RAMY	04	1847	1858U	1914D	S24	W31	8611	07	2.4	27D	1N	3	E		127		
0125	HOLL	04	1854	1858	1943	S24	W30	8611	07	2.5	49	1F	3	E		179		
0126	RAMY	04	1915	1931	1937	S25	W33	8611	07	2.2	22	SF	3	E		25		
0127	HOLL	04	1944	2008	2029	S24	W30	8611	07	2.5	45	SF	3	E		51		F
0128	RAMY	04	2016	2017	2032	S16	W62	8603	06	30.1	16	SF	3	E		15		
0129	HOLL	04	2019	2021	2025	N18	W62	8603	06	30.1	6	SF	3	E		11		F
0130	HOLL	04	2030	2039	2045	S24	W30	8611	07	2.5	15	SF	3	E		28		
		04	2120		2128			No Flare Patrol										
		04	2144		2145			No Flare Patrol										
		04	2215		2331			No Flare Patrol										
0131	LEAR	05	0006	0011	0016	S27	W32	8611	07	2.5	10	SF	3	E		27		
0132	LEAR	05	0029	0035	0110	S24	W31	8611	07	2.6	41	SF	3	E		55		
0133	LEAR	05	0124	0131	0204	S27	W33	8611	07	2.5	40	1F	3	E		128		F
0134	LEAR	05	0141	0144	0148	N16	W58	8617	06	30.7	7	SF	3	E		37		F
0135	LEAR	05	0241	0241	0251	S24	W34	8611	07	2.5	10	SF	3	E		33		
0136	LEAR	05	0331	0335	0353	N18	E27	8614	07	7.2	22	SF	3	E		15		
0137		05	04155	0415	0430	N19	E68	8621	07	10.4	15	SF				25		F
	LEAR	05	0415	0415	0429	N19	E69	8621	07	10.4	14	SF	3	E		22		
	SVTO	05	0420	0428U	0432	N19	E67	8621	07	10.3	12	SF	3	E		28		F

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0138	05	0434	0442*	0529	N18	E27	8614	07	7.2	55	SF				64		FU	
	SVTO	05	0434	0442	0519	N17	E26	8614	07	7.2	45	SF	3	E	58		UF	
	LEAR	05	0434	0459	0529	N18	E26	8614	07	7.2	55	SF	2	E	71		F	
	KANZ	05	0504E		0540	N18	E30	8614	07	7.5	36D	SF	2	C				
0139	SVTO	05	0521	0524	0528	N18	E29	8614	07	7.4	7	SF	3	E	11		F	
0140	05	0700	0700Z	0708	S24	W36	8611	07	2.5	8	SF				19			
	KANZ	05	0700	0700	0708	S25	W36	8611	07	2.5	8	SF	2	C				
	LEAR	05	0700	0702	0707	S24	W37	8611	07	2.4	7	SF	3	E	19			
0141	LEAR	05	0737	0740	0758	N16	E24	8614	07	7.1	21	SF	3	E	15		F	
0142	KANZ	05	0804	0804	0816	S17	W68	8603	06	30.2	12	SF	2	C				
0143	KHAR	05	0909E	0910U	0920	N19	E22	8614	07	7.1	11D	SN	2	V	0917	75	0.8	E
0144	05	0944	0946	1002	N18	E22	8614	07	7.1	18	SF				29		DFH	
	SVTO	05	0944	0946	0958	N17	E22	8614	07	7.1	14	SF	3	E	29		F	
	KHAR	05	0950E		1006	N18	E23	8614	07	7.2	16D	SF	2	V			HD	
0145	05	1154Z	1200I	1222	S26	W40	8611	07	2.4	28	SF				29		F	
	SVTO	05	1154	1201	1220	S25	W41	8611	07	2.3	26	SF	3	E	29		F	
	KANZ	05	1156	1200	1224	S26	W39	8611	07	2.5	28	SF	2	C				
0146	SVTO	05	1315	1316	1320	N19	E15	8614	07	6.7	5	SF	3	E	28		F	
0147	RAMY	05	1316	1317	1331	N16	E23	8614	07	7.3	15	SF	3	E	14			
0148	05	1419	1423	1428	N17	E20	8614	07	7.1	9	SF				28			
	KANZ	05	1419	1423	1427D	N16	E20	8614	07	7.1	8D	SF	2	C				
	SVTO	05	1419	1423	1427	N17	E21	8614	07	7.2	8	SF	3	E	19			
	HOLL	05	1419	1423	1428	N17	E20	8614	07	7.1	9	SF	3	E	32			
	RAMY	05	1419	1423	1429	N17	E21	8614	07	7.2	10	SF	3	E	34			
0149	05	1448	1449	1506	S26	W40	8611	07	2.5	18	SF				28			
	HOLL	05	1448	1449	1506	S25	W40	8611	07	2.5	18	SF	3	E	28			
	KANZ	05	1449E	1449U	1506D	S26	W40	8611	07	2.5	17D	SF	2	C				
0150	05	1449Z	1452Z	1500	N17	W78	8602	06	29.8	11	SF				37			
	KANZ	05	1449E	1449U	1506D	N16	W77	8602	06	29.9	17D	SF	2	C				
	RAMY	05	1449	1452	1503	N19	W79	8602	06	29.7	14	SF	3	E	58			
	HOLL	05	1452	1454	1457	N16	W78	8602	06	29.8	5	SF	3	E	16			
0151	RAMY	05	1532	1532	1536	S25	W40	8611	07	2.5	4	SF	3	E	22			
0152	KANZ	05	1557E		1557	N15	W65	8617	06	30.7	4D	SF	2	C				
0153	05	1554	1555	1557	N20	W82	8602	06	29.5	3	SF				46		F	
	SVTO	05	1554	1555	1557	N20	W87	8602	06	29.1	3	SF	3	E	42			
	HOLL	05	1554	1555	1557	N20	W80	8602	06	29.6	3	SF	3	E	40		F	
	RAMY	05	1554	1555	1558	N20	W83	8602	06	29.4	4	SF	3	E	56			
	KANZ	05	1557E		1557	N21	W79	8602	06	29.7	4D	SF	2	C				
0154	HOLL	05	1558	1600	1601	S25	W41	8611	07	2.5	3	SF	3	E	13			
0155	RAMY	05	1612	1614	1617	N20	W80	8602	06	29.6	5	SF	3	E	12			
0156	KANZ	05	1613E	1613U	1617	N15	W65	8617	06	30.7	4D	SF	2	C				
0157	05	1635*	1713I	1740	S26	W43	8611	07	2.3	65	SF				88		F	
	SVTO	05	1635	1713	1744	S25	W43	8611	07	2.3	69	SF	3	E	99		F	
	HOLL	05	1713	1714	1736	S26	W43	8611	07	2.4	23	SF	3	E	77			
0158	HOLL	05	1648	1649	1700	S25	W42	8611	07	2.4	12	SF	3	E	18			
0159	05	1649	1649I	1654	N17	E20	8614	07	7.2	5	SF				36			
	KANZ	05	1649	1649	1653	N16	E20	8614	07	7.2	4	SF	2	C				
	HOLL	05	1649	1650	1654	N18	E19	8614	07	7.1	5	SF	3	E	36			

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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)	
0160	HOLL	05	1824	1839	1958	S25	W43	8611	07	2.4	94	1F		3	E		183		F
0161	HOLL	05	1833	1833	1839	N17	E18	8614	07	7.1	6	SF		3	E		21		
0162	HOLL	05	1844	1851	1853	N18	E18	8614	07	7.1	9	SF		3	E		14		
0163	HOLL	05	1902	1902	1908	N14	W68	8617	06	30.6	6	SF		3	E		16		
		05	1951		1957														No Flare Patrol
		05	2051		2214														No Flare Patrol
0164	VORO	05	2215	2218	2240D	S24	W50	8611	07	2.1	25D	1F		3	C	2218	224	3.6	
		06	0016		0401														No Flare Patrol
0165		06	0804	0807	0816	N18	E20	8614	07	7.8	12	SF					23		
	KANZ	06	0804	0808	0816	N18	E21	8614	07	7.9	12	SF		2	C				
	SVTO	06	0805	0807	0816	N18	E19	8614	07	7.8	11	SF		3	E		23		
0166	KHAR	06	0902E	0903	0920	S27	W49	8611	07	2.5	18D	SF		2	V				D
0167	KHAR	06	0912	0913	0918	N28	W81		06	30.0	6	SF		2	V				D
0168	KHAR	06	0950E	0951	1007	N28	W81		06	30.1	17D	SF		2	V				D
0169	KHAR	06	1020E	1022	1027	N28	W81		06	30.1	7D	SF		2	V				D
0170	KHAR	06	1028	1030	1100U	N18	W90	8602	06	29.7	32U	SN		2	V				DH
0171	RAMY	06	1404	1409	1419	S24	W52	8611	07	2.6	15	SF		3	E		15		
		06	1947		1958														No Flare Patrol
0172	RAMY	06	2022	2024	2032	S28	W64	8611	07	1.8	10	SF		3	E		15		F
		06	2114		2132														No Flare Patrol
0173	VORO	06	2317	2326	2335D	N23	W58		07	2.5	18D	1F		2	C	2326	143	3.2	
0174		07	0013A	0016	0021	S30	E16	8615	07	8.3	8	SF					14		U
	LEAR	07	0013	0016	0019	S31	E16	8615	07	8.3	6	SF		4	E		17		U
	HOLL	07	0017	0017	0023	S30	E17	8615	07	8.3	6	SF		3	E		10		U
0175		07	0103	0104	0108	S28	W54	8611	07	2.8	5	SF					28		H
	HOLL	07	0103	0105	0108	S29	W53	8611	07	2.9	5	SF		3	E		37		H
	LEAR	07	0104	0104	0108	S28	W54	8611	07	2.8	4	SF		4	E		19		
0176	LEAR	07	0344	0345	0349	S25	W73	8611	07	1.5	5	SF		4	E		24		
0177	SVTO	07	0526	0528	0534	S27	W64	8611	07	2.2	8	SF		3	E		28		FH
0178	SVTO	07	0554	0554	0558	S27	W64	8611	07	2.2	4	SF		3	E		16		H
0179	SVTO	07	0618	0620	0629	S26	W76	8611	07	1.3	11	SF		3	E		54		H
0180	LEAR	07	0624E	0627U	0651D	S27	W62	8611	07	2.4	27D	SF		4	E		58		H
0181		07	0847	0848	0855	S30	E04	8615	07	7.7	8	SF					40		H
	SVTO	07	0847	0849	0855	S30	E03	8615	07	7.6	8	SF		3	E		49		H
	LEAR	07	0848	0848	0855	S29	E05	8615	07	7.7	7	SF		4	E		31		
0182	SVTO	07	0903	0903	0906	S26	W81	8611	07	1.1	3	SF		3	E		20		FH
0183	SVTO	07	1026	1026	1034	N20	E40	8621	07	10.5	8	SF		3	E		16		
0184	SVTO	07	1044	1046	1050	S25	W65	8611	07	2.4	6	SF		3	E		23		FH
		07	1204		1256														No Flare Patrol
		07	1330		1337														No Flare Patrol

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0185	RAMY	07	1450	1450	1457	S22	W11	8626	07	6.8	7	SF	4	E		21		
0186	RAMY	07	1640	1640	1645	S25	W69	8611	07	2.3	5	SF	3	E		15		H
0187	RAMY	07	1718	1720	1730	S29	W01	8615	07	7.6	12	SF	3	E		10		H
		07	1802		1855	No Flare Patrol												
0188	HOLL	07	1938	1944	1948	S26	W69	8611	07	2.4	10	SF	3	E		13		
		07	2111		2126	No Flare Patrol												
		07	2134		2142	No Flare Patrol												
		07	2149		2205	No Flare Patrol												
		07	2334		2337	No Flare Patrol												
0189	LEAR	08	0046	0050	0057	N20	E33	8621	07	10.5	11	SF	3	E		16		
0190	KANZ	08	0528	0528	0540D	N17	W22	8613	07	6.5	12D	SF	2	C				
0191	KANZ	08	0647E	0651	0659	S27	W86	8611	07	1.6	12D	SF	2	C				
0192	KHAR	08	0855E	0855U	0916	S32	W78	8611	07	2.2	21D	1F	2	V				
0193		08	09251	09271	0936	S22	W20	8626	07	6.8	11	SN				39		E
	KHAR	08	0925	0927	0950D	S23	W20	8626	07	6.8	25D	SN	2	V				E
	SVTO	08	0926	0928	0936	S21	W20	8626	07	6.8	10	SF	3	E		39		
0194	KHAR	08	1206	1208	1212	S29	W08	8615	07	7.9	6	SF	2	V				
0195	RAMY	08	1330	1332	1342	S21	W24	8626	07	6.7	12	SF	3	E		20		F
0196	HOLL	08	1930	1931	1934	N19	E70		07	14.1	4	SN	3	E		61		EH
0197	HOLL	08	2127	2128	2133	S23	W26	8626	07	6.9	6	SF	3	E		16		F
0198	HOLL	08	2148	2153	2159	S10	E70	8627	07	14.2	11	SF	3	E		48		
0199	HOLL	08	2306	2307	2311	S13	E69	8627	07	14.2	5	SF	3	E		17		
0200		09	00187	00261	0034	S28	W20	8615	07	7.4	16	SF				41	1.0	F
	VORO	09	0018	0026	0039D	S27	W20	8615	07	7.4	21D	SF	3	C	0026	81	1.0	
	HOLL	09	0020	0027	0036	S29	W19	8615	07	7.5	16	SF	3	E		30		F
	LEAR	09	0025	0026	0032	S28	W20	8615	07	7.4	7	SF	3	E		12		
0201		09	00401	00431	0058	N18	E64		07	13.9	18	SF				50		
	LEAR	09	0040	0043	0059	N17	E64		07	13.9	19	SF	3	E		63		
	HOLL	09	0041	0044	0057	N19	E64		07	13.9	16	SF	3	E		38		
0202	HOLL	09	0057	0058	0108	N23	W59	8613	07	4.5	11	SF	3	E		20		
0203	HOLL	09	0132	0134	0204D	N23	W57	8613	07	4.7	32D	SF	3	E		41		
0204	LEAR	09	0142	0142	0150	S20	W38	8626	07	6.2	8	SF	3	E		16		F
0205	LEAR	09	0212	0212	0220	N23	W57	8613	07	4.7	8	SF	3	E		24		
0206	SVTO	09	0500	0508	0525D	N23	W59	8613	07	4.7	25D	SF	3	E		38		
0207	KHAR	09	0920E	0922U	0955	N19	W65	8613	07	4.4	35D	1N	2	V	0928	200	4.2	EHK
0208	SVTO	09	0950	0951	0956	N21	W67	8613	07	4.3	6	SF	3	E		19		
0209	RAMY	09	1309	1310	1337	N21	W65	8613	07	4.6	28	SF	3	E		25		FH
0210	RAMY	09	1344	1344	1350	N21	W65	8613	07	4.6	6	SF	3	E		15		
0211	RAMY	09	1356	1359	1405	N22	W66	8613	07	4.5	9	SF	3	E		12		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0212		09	1456	14573	1509	S12	E59	8627	07	14.1	13	SF					44		
	RAMY	09	1456	1457	1508	S12	E59	8627	07	14.1	12	SF	3	E			38		
	HOLL	09	1456	1500	1510	S11	E59	8627	07	14.1	14	SF	3	E			50		
0213		09	1456	14561	1502	S22	W40	8626	07	6.5	6	SF					12		
	RAMY	09	1456	1456	1502	S22	W40	8626	07	6.5	6	SF	3	E			11		
	HOLL	09	1456	1457	1501	S22	W40	8626	07	6.5	5	SF	3	E			12		
0214		09	15292	15321	1538	S22	W41	8626	07	6.5	9	SF					14		
	RAMY	09	1529	1532	1614D	S22	W41	8626	07	6.5	45D	SF	3	E			16		
	HOLL	09	1531	1533	1538	S22	W41	8626	07	6.5	7	SF	3	E			12		
0215	HOLL	09	1602	1604	1613	N22	W67	8629	07	4.5	11	SF			3	E		22	
0216	HOLL	09	1758	1802	1811	S12	E58	8627	07	14.1	13	SF			3	E		65	
		09	1826		1831	No Flare Patrol													
		09	1838		1852	No Flare Patrol													
0217	HOLL	09	1905	1910	1916	N22	W67	8629	07	4.6	11	SF			3	E		53	
0218	HOLL	09	1917	1919	1928	N22	W67	8629	07	4.6	11	SF			3	E		17	
0219	HOLL	09	1905	1907	1911	S29	W30	8615	07	7.4	6	SF			3	E		19	
0220	HOLL	09	1958	2002	2005	N22	W68	8629	07	4.6	7	SF			3	E		57	
0221	HOLL	09	2024	2038	2052	N22	W68	8629	07	4.6	28	SF			3	E		72	
0222	HOLL	09	2051	2053	2056	S33	W14	8615	07	8.7	5	SF			3	E		10	
0223	HOLL	09	2111	2112	2114	S34	W16	8615	07	8.6	3	SF			3	E		10	
0224	HOLL	09	2152	2152	2159	N22	W69	8629	07	4.6	7	SF			3	E		14	
0225	HOLL	09	2217	2221	2224	S09	E55	8627	07	14.0	7	SF			3	E		14	
0226	HOLL	09	2224	2229	2232	N22	W69	8629	07	4.6	8	SF			3	E		46	
0227	HOLL	09	2238	2239	2249	N22	W69	8629	07	4.6	11	SF			3	E		77	
0228		09	2351E	2353	2411	S14	E56	8627	07	14.2	20D	1N					124	H	
	HOLL	09	2351E	2353	2410	S13	E55	8627	07	14.1	19D	1N	3	E			188	H	
	LEAR	09	2356E	2401U	2412	S14	E58	8627	07	14.4	16D	SF	3	E			61		
		10	0548		0558	No Flare Patrol													
0229	SVTO	10	0559E	0600	0608	S28	W36	8615	07	7.4	9D	SF			3	E		15	
		10	0636		0657	No Flare Patrol													
		10	1100		1103	No Flare Patrol													
0230	SVTO	10	1217	1220	1229	S28	W36	8615	07	7.7	12	SF			3	E		68	
0231	RAMY	10	1512	1513	1523	S13	E51	8627	07	14.5	11	SF			3	E		35	
0232	RAMY	10	1823	1823	1832	N16	E33	8628	07	13.3	9	SF			3	E		12	
		10	1920		2052	No Flare Patrol													
		10	2059		2259	No Flare Patrol													
0233	HOLL	10	2339	2413	2511	N18	E32	8628	07	13.4	92	1N			3	E		149	
0234	VORO	11	0012	0014	0028	N17	E35	8628	07	13.7	16	SN			3	C	0014	108	1.3
0235	HOLL	10	2352	2407	2411	S22	W56	8626	07	6.7	19	SF			3	E		13	
0236	HOLL	11	0018	0021	0032	S19	W23	8619	07	9.2	14	SF			3	E		12	

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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)	
0237	LEAR	11	0154	0158	0204	N18	E34	8628	07	13.7	10	SF		4	E		14		
			11 0307		0441	No Flare Patrol													
0238	SVTO	11	0445	0513	0529	N18	E28	8628	07	13.3	44	SF		3	E		44		FH
0239	SVTO	11	0547	0553	0559	N17	E28	8628	07	13.4	12	SF		3	E		12		H
0240	RAMY	11	1245	1259	1311	S21	W68	8626	07	6.3	26	SF		3	E		34		
0241	SVTO	11	1259	1312U	1319	S20	W70	8626	07	6.2	20	SF		3	E		26		
0242		11	13137	13204	1327	S21	W64	8626	07	6.6	14	SF					16		H
	RAMY	11	1313	1320	1326	S21	W67	8626	07	6.4	13	SF		3	E		14		H
	SVTO	11	1320	1324	1328	S21	W62	8626	07	6.8	8	SF		3	E		18		
0243		11	1310	13145	1324	S20	W53	8632	07	7.5	14	SF					22		H
	RAMY	11	1310	1319	1330	S20	W52	8632	07	7.6	20	SF		3	E		29		H
	SVTO	11	1311E	1314	1318	S19	W54	8632	07	7.4	7D	SF		3	E		14		
0244	RAMY	11	1316	1318	1330	S31	W53	8615	07	7.4	14	SF		3	E		37		
0245		11	1320	13253	1332	N18	E30	8628	07	13.8	12	SF					14		FH
	SVTO	11	1320	1325	1329	N18	E31	8628	07	13.9	9	SF		3	E		11		
	RAMY	11	1320	1328	1335	N18	E30	8628	07	13.8	15	SF		3	E		18		FH
0246	SVTO	11	1347	1351	1405	S19	W54	8632	07	7.4	18	SF		3	E		14		
0247	SVTO	11	1347	1350	1400	S21	W62	8626	07	6.8	13	SF		3	E		14		
0248	SVTO	11	1550	1553	1556	S20	W70	8626	07	6.3	6	SF		3	E		11		
0249		11	1747	1747	1810	S26	W51	8615	07	7.8	23	SF					46		FH
	RAMY	11	1747	1747	1810	S27	W51	8615	07	7.8	23	SF		3	E		66		FH
	SVTO	11	1747E	1752U	1754D	S26	W51	8615	07	7.8	7D	SF		2	E		27		FH
0250	RAMY	11	1820	1820	1829	N19	W57	8629	07	7.4	9	SF		3	E		30		
0251	RAMY	11	1826	1827	1830	S21	W71	8626	07	6.3	4	SF		3	E		16		
0252		11	1855	18572	1906	S20	W56	8632	07	7.5	11	SF					12		
	HOLL	11	1855	1857	1905	S20	W55	8632	07	7.6	10	SF		3	E		10		
	RAMY	11	1855	1859	1908	S20	W56	8632	07	7.5	13	SF		3	E		15		
0253	RAMY	11	1908	1911	1927	S20	W71	8626	07	6.4	19	SF		3	E		13		
			11 1948		2011	No Flare Patrol													
			11 2029		2036	No Flare Patrol													
			11 2043		2218	No Flare Patrol													
0254	VORO	11	2342	2346	2357	S29	W60		07	7.3	15	SF		3	C	2346	54	1.1	
0255	HOLL	12	0102	0106	0120	N18	W65	8614	07	7.1	18	SF		3	E		61		
			12 0205		0215	No Flare Patrol													
0256	LEAR	12	0314	0318	0321	S20	W58	8632	07	7.7	7	SF		3	E		38		
0257	LEAR	12	0329	0330	0341	N17	E22	8628	07	13.8	12	SF		3	E		19		F
0258	LEAR	12	0459	0503	0509	S18	W61	8632	07	7.6	10	SF		3	E		31		
0259	LEAR	12	0701	0705	0711	S18	W63	8632	07	7.5	10	SF		3	E		15		
0260	LEAR	12	0709	0716	0721	N17	E16	8628	07	13.5	12	SF		3	E		11		F
0261	SVTO	12	0834	0840	0859	S19	W62	8632	07	7.6	25	SF		3	E		17		

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
								Region	Class							Time (UT)	Apparent (10-6 Disk)	
0262		12	0851	0852	0902	S17	E80	8634	07	18.4	11	SF ^A					46	E
	SVTO	12	0851	0852	0903	S18	E81	8634	07	18.5	12	SF	3	E			42	
	LEAR	12	0851	0853	0858	S20	E80	8634	07	18.5	7	SF	3	E			50	E
	KHAR	12	0855E	0858U	0905	S14	E80	8634	07	18.4	10D	SN	2	V				
0263	SVTO	12	0857	0908	0912	N22	W54	8620	07	8.2	15	SF	3	E			15	
0264	SVTO	12	1031	1031	1050	S14	E26	8627	07	14.4	19	SF	3	E			14	
0265		12	1104E	1104U	1115	S24	W82	8626	07	6.1	11D	SN					78	
	RAMY	12	1104E	1104U	1125D	S24	W81	8626	07	6.2	21D	SF	3	E			78	
	KHAR	12	1110E		1115	S25	W84	8626	07	5.9	5D	SN	2	V				
0266	KHAR	12	1210	1210	1225D	S25	W85	8626	07	5.9	15D	SF	2	V				DH
0267		12	1313	1316	1324	S22	W86	8626	07	5.9	11	SF					38	
	HOLL	12	1313	1316	1324	S22	W85	8626	07	6.0	11	SF	3	E			26	
	RAMY	12	1313	1317	1324	S21	W88	8626	07	5.8	11	SF	3	E			50	
0268		12	1316	1318	1322	S20	W65	8632	07	7.6	6	SF					12	
	RAMY	12	1316	1318	1321	S20	W65	8632	07	7.6	5	SF	3	E			11	
	SVTO	12	1317	1319	1323	S20	W65	8632	07	7.6	6	SF	3	E			14	
0269	SVTO	12	1504	1505	1510	S20	W87	8626	07	6.0	6	SF	3	E			27	
0270	RAMY	12	1647	1648	1652	S20	E79	8634	07	18.7	5	SF	3	E			37	
0271	HOLL	12	1943	1950	2004	N19	E12	8628	07	13.7	21	SF	3	E			30	
0272	HOLL	12	2130	2135	2138	S20	W72	8626	07	7.4	8	SF	3	E			20	
		13	0204		0419	No Flare Patrol												
0273		13	0557	0600	0609	N16	E06	8628	07	13.7	12	SF					16	
	SVTO	13	0557	0600	0610	N17	E06	8628	07	13.7	13	SF	3	E			19	
	LEAR	13	0559	0600	0608	N16	E06	8628	07	13.7	9	SF	3	E			14	
0274	KHAR	13	0850E	0851	0900	S22	W72	8632	07	7.8	10D	SN	2	V				
0275	KANZ	13	0854	0854	0906	S20	W72	8632	07	7.9	12	SF	2	C				
0276	KANZ	13	0902	0902	0910	S15	E10	8627	07	14.1	8	SF	2	C				
0277	KANZ	13	1047	1047	1055	S15	E09	8627	07	14.1	8	SF	2	C				
0278	KANZ	13	1103	1107	1123	S15	E09	8627	07	14.1	20	SF	2	C				
0279		13	1259	1302	1307	N18	E02	8628	07	13.7	8	SF					39	
	HOLL	13	1259E	1259U	1309D	N18	E02	8628	07	13.7	10D	SF	3	E			64	
	KANZ	13	1259	1303	1307	N17	E03	8628	07	13.8	8	SF	2	C				
	RAMY	13	1301	1302	1307	N18	E02	8628	07	13.7	6	SF	3	E			32	
	SVTO	13	1301	1303	1306	N17	E02	8628	07	13.7	5	SF	3	E			20	
0280	HOLL	13	1318	1320	1325	N19	E03	8628	07	13.8	7	SF	3	E			15	
0281	HOLL	13	1350	1350	1356	S15	E16	8627	07	14.8	6	SF	3	E			14	
0282		14	0038	0046	0052	S19	E58	8634	07	18.4	14	1F					66	
	HOLL	14	0038	0047	0053	S17	E58	8634	07	18.4	15	1F	3	E			117	
	LEAR	14	0046	0046	0050	S21	E59	8634	07	18.5	4	SF	3	E			16	
		14	0305		0421	No Flare Patrol												
		14	0431		0444	No Flare Patrol												
0283	KHAR	14	0838	0841	0855	N24	E51		07	18.3	17	SF	2	V				EHK
0284	KHAR	14	0948	0953	1010D	S22	W85	8632	07	7.9	22D	SF	2	V				
0285	KHAR	14	1003		1010D	S03	E52		07	18.3	7D	SF	2	V				D

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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)			
			14 1011		1029			No Flare	Patrol												
			14 1141		1158			No Flare	Patrol												
			14 1223		1243			No Flare	Patrol												
			14 1640		1641			No Flare	Patrol												
			14 1745		1819			No Flare	Patrol												
			14 2029		2041			No Flare	Patrol												
			14 2045		2159			No Flare	Patrol												
			14 2217		2350			No Flare	Patrol												
0286	LEAR	15	0058	0058	0109	N43	W51	8635	07	10.8	11	SF		4	E			16		H	
0287	LEAR	15	0146	0146	0152	S20	W29	8625	07	12.8	6	SF		4	E			24			
0288	SVTO	15	0915	0916	0922	S21	E40	8634	07	18.4	7	SF		3	E			25		F	
0289		15	14311	14332	1438	N43	W61	8635	07	10.6	7	SF						26			
	SVTO	15	1431	1435	1438	N43	W58	8635	07	10.8	7	SF		4	E			33			
	HOLL	15	1432	1433	1439	N43	W64	8635	07	10.3	7	SF		3	E			20			
0290	SVTO	15	1548	1558	1609	S17	W34	8625	07	13.1	21	SF		3	E			36			
			15 1801		1816			No Flare	Patrol												
			15 1853		1905			No Flare	Patrol												
			15 1954		2021			No Flare	Patrol												
0291	HOLL	15	2001	2002	2025	S11	W19	8627	07	14.4	24	SF		3	E			67		F	
			15 2121		2130			No Flare	Patrol												
			15 2156		2201			No Flare	Patrol												
			15 2206		2400			No Flare	Patrol												
			16 0346		0403			No Flare	Patrol												
0292	KANZ	16	0741	0741	0749	S18	W42	8625	07	13.1	8	SF		2	C						
0293	LEAR	16	0837	0838	0840	N44	W68	8635	07	10.7	3	SF		3	E			14			
0294	HOLL	16	1709	1709	1715	N43	W74	8635	07	10.6	6	SF		3	E			27			
			16 1811		2400			No Flare	Patrol												
			17 0000		0001			No Flare	Patrol												
			17 0007		0044			No Flare	Patrol												
			17 0055		0123			No Flare	Patrol												
0295	LEAR	17	0220	0225	0231	N45	W76	8635	07	10.8	11	SF		3	E			18			
0296	LEAR	17	0231	0236	0241	N44	W77	8635	07	10.7	10	SF		3	E			19			
0297	LEAR	17	0246	0251	0255	N45	W78	8635	07	10.6	9	SF		3	E			40			
0298	LEAR	17	0307	0346	0353	N18	E85	8636	07	23.6	46	SF		3	E			23			
0299	LEAR	17	0335	0336	0340	N45	W77	8635	07	10.7	5	SF		3	E			19			
0300	LEAR	17	0635	0639	0647	N18	E85	8636	07	23.7	12	SF		3	E			18			
0301		17	07081	0710	0716	N18	E81	8636	07	23.5	8	SF						17			
	LEAR	17	0708	0710	0715	N18	E84	8636	07	23.7	7	SF		3	E			17			
	SVTO	17	0709	0710	0716	N18	E78	8636	07	23.2	7	SF		3	E			17			
0302		17	0821	0823	0828	N18	E79	8636	07	23.4	7	SF						29			
	LEAR	17	0821	0823	0827	N18	E81	8636	07	23.5	6	SF		3	E			28			
	SVTO	17	0821	0823	0828	N18	E77	8636	07	23.2	7	SF		3	E			30			
0303	SVTO	17	0951	0954	1006	N18	E76	8636	07	23.2	15	SF		3	E			49			
0304	SVTO	17	1245	1246	1251	N18	E75	8636	07	23.2	6	SF		3	E			14			
0305	SVTO	17	1351	1358	1401	N42	W89	8635	07	10.3	10	SF		3	E			60			

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0306	HOLL	17	1630	1631	1644D	N42	W85	8635	07	10.7	14D	SF		3	E		18		
		17	1856		2336	No Flare Patrol													
0307	KANZ	18	0741	0750	0806D	N18	E81	8636	07	24.5	25D	SF		2	C				
		18	2111		2137	No Flare Patrol													
		18	2152		2336	No Flare Patrol													
0308	KANZ	19	0819	0835	1058	N21	E58	8636	07	23.8	159	2N		2	C				
0309	KANZ	19	0823	0827	0831	N19	W74	8628	07	13.7	8	SF		2	C				
0310	KANZ	19	1314	1322	1342	N22	E54	8636	07	23.7	28	SF		2	C				
0311	KANZ	19	1459	1459	1503	N20	E56	8636	07	23.9	4	SF		2	C				
		19	1909		1937	No Flare Patrol													
		19	2212		2345	No Flare Patrol													
		20	0019		0022	No Flare Patrol													
0312	KANZ	20	0819	0823	0831	S12	W70	8627	07	15.1	12	SF		2	C				
0313	KANZ	20	0919	0927	0947	N38	W17	8639	07	19.0	28	SF		2	C				
0314	KANZ	20	0927	0927	0943	N23	E51	8636	07	24.3	16	SF		2	C				
0315	KANZ	20	0955	0955	0959	N20	E52	8636	07	24.4	4	SF		2	C				
0316	KANZ	20	1007	1007	1015	N20	E52	8636	07	24.4	8	SF		2	C				
0317	KANZ	20	1327	1332	1340	N19	E43	8636	07	23.8	13	SF		2	C				
0318	KANZ	20	1710	1710	1722	N20	E46	8636	07	24.2	12	SF		2	C				
		20	1918		1923	No Flare Patrol													
		20	1954		2005	No Flare Patrol													
		20	2020		2028	No Flare Patrol													
		20	2035		2349	No Flare Patrol													
		21	0129		0231	No Flare Patrol													
		21	0323		0416	No Flare Patrol													
0319	KANZ	21	0733	0749	0757	S21	E80	8642	07	27.4	24	SF		2	C				
0320		21	0812	0813	0823	N20	E32	8636	07	23.8	11	SF					55		
	SVTO	21	0812	0813	0823	N19	E32	8636	07	23.8	11	SF		3	E		54		
	LEAR	21	0812	0813U	0825D	N20	E33	8636	07	23.9	13D	SF		3	E		56		
0321		21	0831	0831	0832	N18	E30	8636	07	23.6	1	SF					10		
	KANZ	21	0831	0831	0831	N19	E31	8636	07	23.7	1	SF		2	C				
	SVTO	21	0831	0831	0834	N18	E30	8636	07	23.6	3	SF		3	E		10		
0322		21	14322	14333	1440	S17	E68	8642	07	26.8	8	SF					32		
	RAMY	21	1432	1433	1441	S18	E69	8642	07	26.8	9	SF		3	E		44		
	HOLL	21	1432	1434	1440	S15	E66	8642	07	26.6	8	SF		3	E		28		
	SVTO	21	1434	1436	1439	S17	E68	8642	07	26.8	5	SF		3	E		23		
0323		21	14541	14573	1507	N19	E29	8636	07	23.8	13	SF					31		
	RAMY	21	1454	1459	1504	N19	E31	8636	07	24.0	10	SF		3	E		33		
	SVTO	21	1455	1457	1513	N18	E27	8636	07	23.7	18	SF		3	E		26		
	HOLL	21	1455	1500	1504	N19	E30	8636	07	23.9	9	SF		3	E		35		
0324	HOLL	21	1514	1536	1545	N19	E24	8636	07	23.5	31	SF		3	E		66		
0325	HOLL	21	1545	1546	1550	N19	E24	8636	07	23.5	5	SF		3	E		38		
0326	HOLL	21	1751	1758	1803	S18	E67	8642	07	26.8	12	SF		3	E		51		
0327	HOLL	21	1841	1842	1847	N20	E27	8636	07	23.8	6	SF		3	E		51		

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			21 2112		2332	No Flare Patrol													
0328	LEAR	22	0053	0053	0100	S15	E58	8642	07	26.4	7	SF		3	E			11	
0329	HOLL	22	0106	0114	0117	N22	E29	8636	07	24.3	11	SF		3	E			10	
0330	LEAR	22	0233	0236	0249	N37	W39	8639	07	19.0	16	SF		3	E			57	
0331	LEAR	22	0243	0244	0249	N22	W48	8643	07	18.4	6	SF		3	E			13	
0332	LEAR	22	0252	0257	0311	N37	W40	8639	07	18.9	19	SF		3	E			32	
0333	LEAR	22	0330	0331	0341	N23	E32	8636	07	24.6	11	SF		3	E			48	
0334	LEAR	22	0504	0510	0511	S16	E61	8642	07	26.8	7	SF		3	E			42	
0335	LEAR	22	0527	0534	0546	N21	E20	8636	07	23.8	19	SF		4	E			25	
0336	LEAR	22	0547	0553	0621	N38	W41	8639	07	18.9	34	SF		3	E			26	
0337	LEAR	22	0610	0611	0621	N20	E20	8636	07	23.8	11	SF		3	E			15	
0338	SVTO	22	0929	0929	0938	N21	E18	8636	07	23.8	9	SF		3	E			13	
0339	RAMY	22	1110E	1112U	1121D	N21	E14	8636	07	23.5	11D	SF		3	E			30	F
0340	RAMY	22	1142	1212	1243	N21	E17	8636	07	23.8	61	SF		3	E			45	F
0341	HOLL	22	1435	1439	1444	N20	E12	8636	07	23.5	9	SF		3	E			19	
			22 1834		1935	No Flare Patrol													
			22 1942		2128	No Flare Patrol													
0342	HOLL	22	2130E	2130U	2139	N21	E14	8636	07	24.0	9D	SF		2	E			91	
0343	HOLL	22	2145	2147	2156	N20	E15	8636	07	24.0	11	SF		3	E			49	F
			22 2227		2232	No Flare Patrol													
			22 2327		2332	No Flare Patrol													
0344	LEAR	23	0033	0040	0108	N22	E13	8636	07	24.0	35	SF		3	E			79	EF
0345	LEAR	23	0122	0125	0136	N36	W51	8639	07	19.0	14	SF		4	E			26	E
0346	LEAR	23	0216	0217	0219	N21	E17	8636	07	24.4	3	SF		3	E			21	E
0347	LEAR	23	0416	0418	0421	N22	E05	8636	07	23.6	5	SF		3	E			21	
0348	LEAR	23	0449	0449	0501	N22	E07	8636	07	23.7	12	SF		3	E			23	F
0349		23	0503	0507*	0538	N20	E16	8636	07	24.4	35	SF						22	F
	SVTO	23	0503	0507	0538	N21	E14	8636	07	24.3	35	SF		3	E			14	F
	LEAR	23	0503	0524	0537	N20	E19	8636	07	24.7	34	SF		3	E			30	F
0350		23	0627	0631	0654	N36	W54	8639	07	18.9	27	1F						112	FH
	LEAR	23	0627	0631	0653	N36	W54	8639	07	18.9	26	1F		4	E			102	F
	SVTO	23	0627	0631	0656	N36	W53	8639	07	19.0	29	1F		3	E			123	FH
0351		23	0657	06584	0733	N20	E14	8636	07	24.4	36	SF						35	F
	SVTO	23	0657	0658	0708	N20	E13	8636	07	24.3	11	SF		3	E			28	F
	LEAR	23	0657	0702	0758	N20	E14	8636	07	24.4	61	SF		3	E			42	F
0352	SVTO	23	0715	0720	0724	N19	E13	8636	07	24.3	9	SF		3	E			15	F
0353		23	0829	08322	0843	N19	E06	8636	07	23.8	14	SF						16	F
	SVTO	23	0829	0832	0839	N19	E03	8636	07	23.6	10	SF		3	E			14	F
	LEAR	23	0829	0834	0847	N19	E09	8636	07	24.0	18	SF		3	E			19	
0354	SVTO	23	1003	1005	1014	N22	E05	8636	07	23.8	11	SF		3	E			30	F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0355	KANZ	23	1032E	1032U	1052	N20	E16	8636C	07	24.7	20D	SF	2	C				
0356	SVTO	23	1132	1145U	1149	N23	E05	8636	07	23.9	17	SF	3	E		38		F
0357	KANZ	23	1235E	1247	1251D	N24	E03	8636	07	23.7	16D	SF	2	C				
0358	HOLL	23	1439	1442	1446	N21	E07	8636	07	24.1	7	SF	3	E		13		
0359	HOLL	23	1447	1449	1452	N19	E06	8636	07	24.1	5	SF	3	E		18		
0360	HOLL	23	1452	1453	1459	N19	E08	8636	07	24.2	7	SF	3	E		34		
0361	HOLL	23	1504	1509	1543	N21	E01	8636	07	23.7	39	SF	3	E		48		
0362	HOLL	23	1439	1442	1444	S27	E87	8645	07	30.4	5	SF	3	E		16		
0363	HOLL	23	1832	1942	2057	N20	E04	8636	07	24.1	145	2F	3	E		346		F
		23	2250		2303	No Flare Patrol												
0364	HOLL	23	2300	2300	2315	S26	E87	8644	07	30.7	15	SF	3	E		95		
		23	2326		2333	No Flare Patrol												
0365		23	23501	2354*	2406	N23	W02	8636	07	23.8	16	SF				19		
	LEAR	23	2350	2405	2417	N25	W04	8636	07	23.7	27	SF	3	E		20		
	HOLL	23	2351	2354	2356	N21	E00	8636	07	24.0	5	SF	3	E		18		
0366	LEAR	24	0347	0347	0353	N34	W65	8639	07	19.0	6	SF	3	E		39		
0367	LEAR	24	0359	0403	0418	S29	E87	8645	07	31.0	19	1N	3	E		238		EY
0368	LEAR	24	0502	0504	0513	N21	W15	8636	07	23.0	11	SF	4	E		13		
0369	LEAR	24	0540	0541	0545	N21	W07	8636	07	23.7	5	SF	4	E		21		
0370		24	07131	07193	0744	N20	W04	8636	07	24.0	31	SF				26		
	LEAR	24	0713	0719	0754	N21	W05	8636	07	23.9	41	SF	4	E		26		
	KANZ	24	0714	0722	0734	N20	W02	8636	07	24.1	20	SF	2	C				
0371	KANZ	24	0734	0746	0818	N25	W09	8636	07	23.6	44	SF	2	C				
0372	KANZ	24	0746	0750	0758	N21	W06	8636	07	23.9	12	SF	2	C				
0373	LEAR	24	0755	0756	0810	S28	E78	8645	07	30.4	15	SF	4	E		30		
0374	KANZ	24	0758	0758	0814	S26	E16		07	25.6	16	SF	2	C				
		24	0930		1026	No Flare Patrol												
0375	HOLL	24	1325	1329	1334	N35	W71	8639	07	18.9	9	SF	3	E		15		
0376	HOLL	24	1443	1445	1457	N38	W69	8639	07	19.0	14	SF	3	E		32		
0377	HOLL	24	1523	1523	1534	N34	W73	8636	07	18.8	11	SF	3	E		15		
0378	HOLL	24	2039	2045	2113D	N19	W15	8636	07	23.7	34D	SF	3	E		94		
0379	HOLL	24	2044	2045	2053	N36	W76	8639	07	18.8	9	SF	3	E		27		
0380	HOLL	24	2240	2245	2249	S26	E68	8645	07	30.2	9	SF	3	E		67		
		24	2307		2332	No Flare Patrol												
0381	LEAR	25	0058	0102	0158	S29	E70	8645	07	30.5	60	SN	3	E		95		
0382	LEAR	25	0131	0132	0207	N18	W18	8636	07	23.7	36	SF	3	E		54		
0383	LEAR	25	0201	0205	0209	N38	W71	8639	07	19.3	8	SF	3	E		36		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0384	LEAR	25	0229	0235	0238	S26	E59	8645	07	29.7	9	SF	3	E		20		
0385	LEAR	25	0247	0250	0303	S26	E59	8645	07	29.7	16	SF	3	E		44		
0386	LEAR	25	0323	0325	0330	S26	E59	8645	07	29.7	7	SF	3	E		41		
0387	LEAR	25	0403	0429	0439	S26	E58	8645	07	29.7	36	1F	3	E		175		E
0388	LEAR	25	0510	0512	0535	N20	W22	8636	07	23.5	25	SF	3	E		44		F
0389	LEAR	25	0535	0535	0542	N36	W80	8639	07	18.8	7	SF	3	E		16		
		25	0944		1120	No Flare Patrol												
0390	HOLL	25	1343	1343	1356	N38	W81	8639	07	19.0	13	SF	3	E		25		
0391	HOLL	25	1351E	1359	1406	S18	E57	8647	07	29.9	15D	SF	3	E		11		
0392	HOLL	25	1421	1424	1432	S18	E57	8647	07	29.9	11	SF	3	E		44		
0393	HOLL	25	1741	1745	1754	N20	W28	8636	07	23.6	13	SF	3	E		23		
0394	HOLL	25	1850	1853	1856	N20	W27	8636	07	23.7	6	SF	3	E		15		
		25	2236		2311	No Flare Patrol												
		25	2316		2334	No Flare Patrol												
0395	KANZ	26	0621E	0625	0705D	S21	E55	8647	07	30.5	44D	SF	2	C				
0396	SVTO	26	0637	0640	0643	S26	E45	8645	07	29.8	6	SF	3	E		15		
0397	LEAR	26	0639	0644	0652	S24	E54	8645	07	30.4	13	SF	4	E		12		
		26	1021		1037	No Flare Patrol												
0398		26	15101	1512	1514	N20	W32	8636	07	24.2	4	SF				40		
	SVTO	26	1510	1512U	1513D	N19	W30	8636	07	24.3	3D	SF	3	E		42		
	HOLL	26	1511	1512	1514	N21	W35	8636	07	23.9	3	SF	3	E		37		
0399	HOLL	26	1833	1839U	1844	S26	E38	8645	07	29.7	11	SF	2	E		25		
		26	1857		1919	No Flare Patrol												
		26	1954		2001	No Flare Patrol												
0400	HOLL	26	2025	2028	2034	N13	W44	8646	07	23.5	9	SF	3	E		34		
		26	2234		2244	No Flare Patrol												
		26	2335		2344	No Flare Patrol												
		26	2349		2400	No Flare Patrol												
		27	0000		0017	No Flare Patrol												
		27	0047		0108	No Flare Patrol												
0401		27	0738	07425	0752	N13	W50	8646	07	23.5	14	SF				14		EF
	KANZ	27	0738	0742	0754	N12	W51	8646	07	23.5	16	SF	2	C				
	LEAR	27	0738	0747	0750	N13	W50	8646	07	23.5	12	SF	4	E		17		E
	SVTO	27	0739E	0739U	0744D	N13	W49	8646	07	23.6	5D	SF	3	E		12		F
0402		27	0854	08571	0913	S26	E42	8645	07	30.6	19	SF				44		FU
	SVTO	27	0854	0857U	0911	S25	E41	8645	07	30.5	17	SF	3	E		43		UF
	LEAR	27	0854	0857	0915	S26	E40	8645	07	30.5	21	SF	4	E		45		UF
	KANZ	27	0854	0858	0914	S26	E45	8645	07	30.9	20	SF	2	C				
0403	KANZ	27	0950	0950	0954	S17	E47	8647	07	31.0	4	SF	2	C				
0404	KANZ	27	1042	1042	1046	S30	E40	8645	07	30.6	4	SF	2	C				
0405	KANZ	27	1242	1246	1306	N25	E78	8651	08	2.6	24	SF	2	C				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0406		27	13095	13212	1450	N24	W47	8636	07	23.9	101	1N				201		EFLU
	HOLL	27	1309	1323	1442	N23	W50	8636	07	23.7	93	1N	3	E		241		F
	KANZ	27	1310	1322U	1322D	N25	W50	8636	07	23.7	12D	1N	2	C				
	SVTO	27	1311	1321	1446	N25	W47	8636	07	23.9	95	1N	3	E		141		F
	RAMY	27	1314	1321	1503	N24	W45	8636	07	24.1	109	1B	3	E		220		UF
	KHAR	27	1318E		1340D	N24	W45	8636	07	24.1	22D	1B	2	V				LE
0407		27	14411	1442	1449	N12	W54	8646	07	23.5	8	SF				28		
	SVTO	27	1441	1442	1448	N12	W54	8646	07	23.5	7	SF	3	E		24		
	RAMY	27	1442	1442	1450	N12	W54	8646	07	23.5	8	SF	3	E		31		
0408		27	15001	1501	1504	N12	W54	8646	07	23.5	4	SF				28		
	RAMY	27	1500	1501	1504	N12	W54	8646	07	23.5	4	SF	3	E		31		
	SVTO	27	1501	1501	1505	N12	W53	8646	07	23.6	4	SF	3	E		24		
		27	1804		1811	No Flare Patrol												
		27	1816		1823	No Flare Patrol												
		27	1858		1911	No Flare Patrol												
		27	2000		2010	No Flare Patrol												
		27	2204		2212	No Flare Patrol												
		27	2222		2256	No Flare Patrol												
0409	LEAR	28	0023	0023	0036	N21	W53	8636	07	23.9	13	SF	2	E		15		
0410	LEAR	28	0047	0051	0054	N20	W55	8636	07	23.8	7	SF	3	E		12		
0411	LEAR	28	0057	0105	0109	N20	W55	8636	07	23.8	12	SF	3	E		16		
0412	LEAR	28	0152	0158	0234	S15	E08	8649	07	28.7	42	SF	3	E		54		FU
0413	SVTO	28	0553	0555	0558	S15	E06	8649	07	28.7	5	SF	3	E		16		
0414		28	07442	0746	0759	S15	E04	8649	07	28.6	15	SF				26		
	SVTO	28	0744	0746	0803	S15	E04	8649	07	28.6	19	SF	3	E		38		
	LEAR	28	0746	0746	0755	S15	E04	8649	07	28.6	9	SF	3	E		15		
0415	SVTO	28	0805	0813	0902	S15	E03	8649	07	28.6	57	1B	3	E		125		
0416	SVTO	28	0853	0855	0901	N22	E69	8651	08	2.7	8	SF	3	E		11		
0417	SVTO	28	0903	0904	0911	N24	E69	8651	08	2.7	8	SF	3	E		19		H
0418	SVTO	28	0927	0936	0950	N24	E68	8651	08	2.6	23	SF	3	E		13		H
0419	SVTO	28	1251	1321	1404	N20	W72	8636	07	23.0	73	SF	3	E		73		H
0420	SVTO	28	1322	1323	1334	S25	E19	8645	07	30.0	12	SF	3	E		22		F
0421		28	1425	14301	1440	S15	E02	8649	07	28.7	15	SF				20		
	SVTO	28	1425	1430	1437	S15	E02	8649	07	28.7	12	SF	3	E		14		
	RAMY	28	1425	1431	1444	S15	E01	8649	07	28.7	19	SF	3	E		26		
0422	RAMY	28	1457	1515	1525	S22	E24	8645	07	30.5	28	SF	3	E		11		
0423		28	15443	1555*	1647	N24	E68	8651	08	2.9	63	SF				50		
	HOLL	28	1544	1654	1715	N24	E67	8651	08	2.8	91	SF	3	E		76		
	RAMY	28	1547	1555	1619	N23	E68	8651	08	2.9	32	SF	3	E		24		
0424	HOLL	28	1548	1549	1552	S22	E24	8645	07	30.5	4	SF	3	E		19		
0425		28	1609	16112	1620	S18	E30	8647	07	30.9	11	SF				16		
	HOLL	28	1609	1611	1618	S18	E30	8647	07	30.9	9	SF	3	E		17		
	RAMY	28	1609	1613	1621	S19	E29	8647	07	30.9	12	SF	3	E		15		
0426	HOLL	28	1626	1632	1636	S14	E01	8649	07	28.8	10	SF	3	E		15		
0427	HOLL	28	1636	1637	1639	S22	E23	8645	07	30.4	3	SF	3	E		12		

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								Region	Class								Apparent (10-6 Disk)	Corr (Sq Deg)								
0428		28	17411	17432	1802	N22	E66	8651	08	2.8	21	SF						31								
	HOLL	28	1741	1745	1805	N23	E66	8651	08	2.8	24	SF		3	E			41								
	RAMY	28	1742	1743	1800	N22	E67	8651	08	2.9	18	SF		3	E			21								
0429	HOLL	28	1746	1746	1750	N20	W63	8636	07	23.9	4	SF		3	E			22								
0430		28	1745	1746*	1749	S22	E21	8645	07	30.3	4	1N						117		F						
	HOLL	28	1745	1746	1749	S22	E23	8645	07	30.5	4	SF		3	E			16								
	RAMY	28	1745	1801	1951D	S21	E19	8645	07	30.2	126D	1N		3	E			218		F						
0431	HOLL	28	1748	1812	1842	S18	E29	8647	07	31.0	54	SF		3	E			97								
0432	HOLL	28	1757	1806	1848	S19	E22	8645	07	30.4	51	1N		3	E			214		F						
0433	HOLL	28	1843	1843	1847	S19	E29	8647	07	31.0	4	SF		3	E			43								
0434	HOLL	28	1850	1854	1859	S25	E24	8645	07	30.6	9	SF		3	E			26								
0435	HOLL	28	1901	1904	1906	S25	E24	8645	07	30.6	5	SF		3	E			19								
0436	HOLL	28	1849	1855	1902	N24	E65	8651	08	2.8	13	SF		3	E			17								
0437	HOLL	28	1849	1851	1905	S14	W03	8649	07	28.5	16	SF		3	E			14								
0438	HOLL	28	1918	1918	1922	S22	E23	8645	07	30.6	4	SF		3	E			36								
0439	HOLL	28	1926	1932	2012	S14	W04	8649	07	28.5	46	SF		3	E			38								
0440	HOLL	28	1912	1918	1925	N23	E66	8651	08	2.9	13	SF		3	E			40								
0441	HOLL	28	1927	1932	1937	N24	E65	8651	08	2.8	10	SF		3	E			26								
0442	HOLL	28	1940	1952	1957	N23	E66	8651	08	2.9	17	SF		3	E			35								
0443	HOLL	28	2034	2035	2046	S14	W02	8649	07	28.7	12	SF		3	E			40								
0444	HOLL	28	2210	2210	2216	S23	E19	8645	07	30.4	6	SF		3	E			24								
																						28	2227		2250	No Flare Patrol
0445	HOLL	28	2317	2318	2325	S14	W02	8649	07	28.8	8	SF		3	E			15								
																						28	2348		2400	No Flare Patrol
																						29	0000		0005	No Flare Patrol
																						29	0806		0844	No Flare Patrol
																						29	0944		1029	No Flare Patrol
0446	SVTO	29	1010E	1012U	1029D	S16	W11	8649	07	28.6	19D	SF		2	E			47		H						
0447	SVTO	29	1059E	1102U	1103D	N25	E54	8651	08	2.6	4D	SF		3	E			79		F						
0448	RAMY	29	1213	1214	1222	N20	W75	8636	07	23.8	9	SF		3	E			59								
0449		29	1238	1252	1338	S14	W12	8649	07	28.6	60	SF						76		F						
	RAMY	29	1238	1252	1335	S14	W12	8649	07	28.6	57	SF		3	E			96		F						
	SVTO	29	1306E	1308U	1342	S15	W12	8649	07	28.6	36D	SF		3	E			55		F						
0450	SVTO	29	1312	1333U	1340	S26	E02	8645	07	29.7	28	SF		3	E			27		F						
0451		29	14001	1402	1410	S16	W11	8649	07	28.7	10	SF						24		F						
	SVTO	29	1400	1402	1412	S16	W12	8649	07	28.7	12	SF		3	E			28		F						
	RAMY	29	1401	1402	1409	S16	W10	8649	07	28.8	8	SF		3	E			20								
0452	RAMY	29	1445	1447	1459	N23	E55	8651	08	2.8	14	SF		3	E			36								
0453		29	1420*	1514	1548	N24	E54	8651	08	2.8	88	1N						84		F						
	SVTO	29	1420	1514	1615	N23	E56	8651	08	2.9	115	1N		3	E			101		F						
	RAMY	29	1512	1514	1522	N25	E53	8651	08	2.7	10	SN		3	E			66								

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0454	RAMY	29	1603	1603	1620	S20	E11	8645	07	30.5	17	SF		3	E		27		
0455		29	1622*	1631	1726	S23	E08	8645	07	30.3	64	2N					388		FH
	RAMY	29	1622	1631	1725	S23	E08	8645	07	30.3	63	2N		3	E		360		
	HOLL	29	1632	1632	1726	S23	E09	8645	07	30.4	54	2F		3	E		415		HF
0456	HOLL	29	1640	1646	1710	S18	E11	8647	07	30.5	30	SF		3	E		18		
0457	HOLL	29	1711	1714	1716	S18	E11	8647	07	30.5	5	SF		3	E		13		
0458	RAMY	29	1648	1650	1712	N23	E54	8651	08	2.9	24	SF		3	E		66		
0459		29	1633*	1731	1904	N24	E52	8651	08	2.7	151	1F					116		T
	HOLL	29	1633	1731	2019	N23	E52	8651	08	2.7	226	1F		3	E		197		T
	RAMY	29	1725	1731	1750	N24	E52	8651	08	2.7	25	SF		3	E		34		
0460	HOLL	29	1729	1733	1734	S24	E09	8645	07	30.4	5	SF		3	E		46		
0461	HOLL	29	1747	1749	1751	S24	E10	8645	07	30.5	4	SF		3	E		40		
0462	HOLL	29	1748	1749	1751	S14	W15	8649	07	28.6	3	SF		3	E		22		
0463	HOLL	29	1752	1754	1756	S15	W12	8649	07	28.8	4	SF		3	E		17		
0464	HOLL	29	1757	1802	1805	S14	W15	8649	07	28.6	8	SF		3	E		15		
0465	HOLL	29	1817	1817	1819	S24	E09	8645	07	30.4	2	SF		3	E		31		
0466	HOLL	29	1824	1837	1842	S15	W14	8649	07	28.7	18	SF		3	E		26		F
0467	HOLL	29	1843	1844	1847	S14	W16	8649	07	28.6	4	SF		3	E		17		
0468	HOLL	29	1850	1859	1905	S14	W16	8649	07	28.6	15	SF		3	E		73		
0469	HOLL	29	1918	1919	1925	S14	W16	8649	07	28.6	7	SF		3	E		59		
0470	RAMY	29	1925	1934	1955D	N25	E51	8651	08	2.8	30D	1N		3	E		196		H
0471	HOLL	29	1934	1936	1946	S15	W14	8649	07	28.7	12	SF		3	E		36		
0472		29	2020	2109	2210	N24	E52	8651	08	2.9	110	1F					60		
	HOLL	29	2020	2109	2210	N24	E53	8651	08	2.9	110	1F		3	E		109		
	RAMY	29	2102E	2102U	2131D	N23	E52	8651	08	2.9	29D	SF		2	E		11		
		29	2055		2101														No Flare Patrol
		29	2213		2215														No Flare Patrol
		29	2228		2232														No Flare Patrol
		29	2238		2309														No Flare Patrol
0473	HOLL	29	2251	2324	2328	N24	E50	8651	08	2.8	37	SF		3	E		80		
0474	HOLL	29	2333	2346	2428	N24	E50	8651	08	2.8	55	1F		3	E		230		
0475	HOLL	30	0052	0053	0102	N25	E47	8651	08	2.7	10	SF		3	E		14		
0476	LEAR	30	0108	0108	0134	N22	E52	8651	08	3.0	26	SF		3	E		58		
0477	LEAR	30	0158	0200	0231	N23	E48	8651	08	2.8	33	SF		3	E		77		
0478	LEAR	30	0259	0306	0310	S26	W06	8645	07	29.6	11	SF		3	E		32		
0479	SVTO	30	0512	0512	0529	S26	W06	8645	07	29.7	17	SF		3	E		15		
0480		30	0518	0526	0535	N24	E47	8651	08	2.8	17	SF					11		
	LEAR	30	0518	0526	0531	N23	E47	8651	08	2.8	13	SF		3	E		10		
	SVTO	30	0518	0526	0539	N25	E47	8651	08	2.9	21	SF		3	E		12		
0481		30	05531	0555	0614	N24	E46	8651	08	2.8	21	SF					44		F
	LEAR	30	0553	0555	0617	N23	E46	8651	08	2.8	24	SF		3	E		44		F
	SVTO	30	0554	0555	0612	N25	E47	8651	08	2.9	18	SF		3	E		43		

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Grp #	Sta	Start 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)		
0482	SVTO	30	0555	0555	0559	S26	W06	8645	07	29.8	4	SF		3	E		12			
0483		30	06392	0645	0700	N24	E46	8651	08	2.8	21	SF					28			
	SVTO	30	0639	0645	0703	N25	E46	8651	08	2.8	24	SF		3	E		34			
	LEAR	30	0641	0645	0657	N23	E45	8651	08	2.7	16	SF		3	E		23			
0484	SVTO	30	0707	0709	0711	N25	E46	8651	08	2.9	4	SF		3	E		19			
0485		30	07171	07181	0731	N24	E44	8651	08	2.7	14	SF					46			F
	LEAR	30	0717	0719U	0738	N23	E44	8651	08	2.7	21	SF		3	E		54			F
	KANZ	30	0718	0718	0726	N24	E42	8651	08	2.5	8	SF		2	C					
	SVTO	30	0718	0719	0730	N25	E46	8651	08	2.9	12	SF		3	E		38			
0486	SVTO	30	0641	0645	0653	S26	W07	8645	07	29.7	12	SF		3	E		39			
0487	LEAR	30	0642	0644	0657	S20	E00	8645	07	30.3	15	SF		3	E		18			
0488	SVTO	30	0706	0706	0712	S26	W07	8645	07	29.7	6	SF		3	E		21			
0489	SVTO	30	0835	0835	0840	N25	E45	8651	08	2.8	5	SF		3	E		19			
0490	SVTO	30	0837	0839	0842	S16	W23	8649	07	28.6	5	SF		3	E		18			
0491		30	08482	08542	0900	N24	E44	8651	08	2.8	12	SN					97			E
	SVTO	30	0848	0856	0900	N25	E43	8651	08	2.7	12	SN		3	E		96			
	KANZ	30	0850	0854	0906D	N24	E44	8651	08	2.8	16D	SN		2	C					
	LEAR	30	0852E	0854	0903D	N23	E44	8651	08	2.7	11D	SN		3	E		98			E
		30	1001		1025	No Flare Patrol														
0492		30	1036E	1036U	1040	S27	E06	8645	07	30.9	4D	SF					34			
	KANZ	30	1036E	1036U	1040	S27	E06	8645	07	30.9	4D	SF		2	C					
	RAMY	30	1036E	1036U	1050D	S27	E05	8645	07	30.8	14D	SF		3	E		34			
0493	RAMY	30	1109E	1117	1154	S24	E01	8645	07	30.5	45D	SF		3	E		71			F
0494	RAMY	30	1158	1202	1220	S15	W25	8649	07	28.6	22	SF		3	E		15			F
0495	SVTO	30	1200	1213	1217	S15	W26	8649	07	28.5	17	SF		3	E		18			
0496	SVTO	30	1219	1221	1223	S16	W25	8649	07	28.6	4	SF		3	E		16			
0497	SVTO	30	1200	1210	1229	N23	E40	8651	08	2.6	29	SF		3	E		90			F
0498	RAMY	30	1204	1224	1247	N24	E41	8651	08	2.7	43	SF		3	E		14			F
0499	SVTO	30	1230	1230	1238	N25	E43	8651	08	2.8	8	SF		3	E		14			
0500	SVTO	30	1238	1243	1247	N25	E43	8651	08	2.8	9	SF		3	E		69			
0501		30	12523	12543	1310	N24	E41	8651	08	2.7	18	SF					73			
	SVTO	30	1252	1254	1316	N23	E41	8651	08	2.7	24	1F		3	E		112			
	KANZ	30	1253	1257	1305	N23	E40	8651	08	2.6	12	SF		2	C					
	RAMY	30	1255	1255	1300	N23	E41	8651	08	2.7	5	SF		3	E		21			
	HOLL	30	1257E	1257U	1319	N25	E42	8651	08	2.8	22D	SF		3	E		87			
0502	SVTO	30	1319	1320	1325	N25	E43	8651	08	2.9	6	SF		3	E		13			
0503	HOLL	30	1335	1337	1341	N25	E42	8651	08	2.8	6	SF		3	E		12			
0504		30	1344*	13518	1358	N24	E42	8651	08	2.8	14	SF					14			
	SVTO	30	1344	1351	1354	N25	E43	8651	08	2.9	10	SF		3	E		16			
	RAMY	30	1359	1359	1402	N24	E41	8651	08	2.7	3	SF		3	E		13			
0505		30	13558	14161	1446	N24	E42	8651	08	2.8	51	SF					42			
	SVTO	30	1355	1417	1427	N25	E42	8651	08	2.8	32	SF		3	E		47			
	HOLL	30	1403	1416	1506	N24	E41	8651	08	2.7	63	SF		3	E		37			

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JULY 1999

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)		
0506		30	1403*	14212	1432	N22	E40	8651	08	2.6	29	SF					30		FH	
	RAMY	30	1403	1423	1435	N23	E40	8651	08	2.7	32	SF		3	E		30		FH	
	KANZ	30	1417	1421	1429	N21	E41	8651	08	2.7	12	SF		2	C					
0507	RAMY	30	1455	1517	1551	N24	E39	8651	08	2.6	56	SF		3	E		82		FH	
0508		30	1455	1456	1508	S24	W03	8645	07	30.4	13	SF					32			
	HOLL	30	1455	1456	1507	S24	W02	8645	07	30.5	12	SF		3	E		44			
	RAMY	30	1455	1456	1508	S23	W04	8645	07	30.3	13	SF		3	E		19			
0509	SVTO	30	1455	1455	1506	S26	W11	8645	07	29.8	11	SF		3	E		15			
0510	KANZ	30	1506	1506	1510D	S30	E13	8645	07	31.6	4D	SF		2	C					
0511		30	1508*	16052	1623	N24	E39	8651	08	2.6	75	1N					146			
	HOLL	30	1508	1605	1628	N24	E40	8651	08	2.7	80	1N		3	E		160			
	KANZ	30	1559	1607	1619	N24	E40	8651	08	2.7	20	1N		2	C					
	RAMY	30	1604	1606	1621	N24	E38	8651	08	2.6	17	1N		3	E		131			
0512		30	1516	15191	1617	S14	W27	8649	07	28.6	61	1N					140		FH	
	SVTO	30	1516	1519	1625	S15	W29	8649	07	28.4	69	1B		3	E		136			
	RAMY	30	1516	1520	1614	S15	W28	8649	07	28.5	58	1B		3	E		141		FH	
	HOLL	30	1516	1520	1614	S14	W27	8649	07	28.6	58	1N		3	E		143			
	KANZ	30	1532E		1615	S14	W25	8649	07	28.7	43D	1F		2	C					
0513	HOLL	30	1554	1554	1558	S26	E00	8645	07	30.7	4	SF		3	E		18		F	
0514	HOLL	30	1636	1639	1640	N24	E40	8651	08	2.8	4	SF		3	E		25			
0515	HOLL	30	2137	2155	2213	N25	E38	8651	08	2.8	36	SN		3	E		57			
0516	HOLL	30	2214	2214	2254	N24	E38	8651	08	2.9	40	SF		3	E		31			
		30	2222		2230	No Flare Patrol														
		30	2240		2246	No Flare Patrol														
0517	HOLL	30	2323	2324	2326	N25	E33	8651	08	2.5	3	SF		3	E		24			
0518	HOLL	30	2329	2335	2343	N25	E38	8651	08	2.9	14	SF		3	E		81		F	
0519	HOLL	30	2345	2348	2406	N26	E38	8651	08	2.9	21	SF		3	E		50			
0520	HOLL	30	2345	2350	2355	S22	W06	8645	07	30.5	10	SF		3	E		12			
0521		31	00071	0010*	0043	N24	E36	8651	08	2.8	36	SF					50			
	LEAR	31	0007	0010	0028	N22	E37	8651	08	2.8	21	SF		3	E		43			
	HOLL	31	0008	0024	0058	N25	E34	8651	08	2.6	50	SF		3	E		57			
0522	HOLL	31	0024	0024	0030	S19	W11	8645	07	30.2	6	SF		3	E		13			
0523	LEAR	31	0323	0323	0332	N21	E36	8651	08	2.9	9	SF		3	E		14			
0524	SVTO	31	0546	0549	0601	N25	E34	8651	08	2.9	15	SF		3	E		17			
0525	SVTO	31	0546	0546	0552	S25	E41	8658	08	3.4	6	SF		3	E		19			
0526	KANZ	31	0554E		0606	S20	E48	8658	08	3.9	12D	SF		2	C					
0527		31	07061	07091	0741	N16	E34	8650	08	2.9	35	SF					19			
	KANZ	31	0706	0710	0742	N18	E36	8650	08	3.0	36	SF		2	C					
	LEAR	31	0707	0709	0740	N15	E33	8650	08	2.8	33	SF		4	E		19			
0528		31	0851*	09268	1022	N25	E32	8651	08	2.8	91	SF					46			
	SVTO	31	0851	0926	1019	N25	E32	8651	08	2.8	88	SF		3	E		46			
	KANZ	31	0926	0934	1026	N25	E31	8651	08	2.8	60	SF		2	C					
0529	SVTO	31	0938	0940	0944	S26	W21	8645	07	29.8	6	SF		3	E		14			
0530	SVTO	31	0945	0945	0950	S26	W21	8645	07	29.8	5	SF		3	E		12			

H α SOLAR FLARES

JULY 1999

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks														
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)															
		31	1044		1100		No Flare Patrol																								
0531	SVTO	31	1156	1158	1211	N25 E31	8651	08	2.9	15	SF	3	E			24															
0532	RAMY	31	1212	1212	1226	N25 E29	8651	08	2.7	14	SF	3	E			21	FH														
0533	RAMY	31	1212	1213	1223	S23 W16	8645	07	30.3	11	SF	3	E			37	FH														
0534	31	1252	1252	1300	N25 E30	8651	08	2.9	8	SF					14																
	RAMY	31	1252	1252	1259	N25 E29	8651	08	2.8	7	SF	3	E			12															
	SVTO	31	1252	1252	1302	N25 E30	8651	08	2.9	10	SF	3	E			17															
0535	HOLL	31	1348	1352	1357	N16 E30	8650	08	2.8	9	SF	3	E			11															
0536	31	1356	1359	1410	N25 E29	8651	08	2.8	14	SF					27	FH															
	HOLL	31	1356	1359	1409	N24 E28	8651	08	2.7	13	SF	3	E			18															
	SVTO	31	1356	1359	1410	N25 E30	8651	08	2.9	14	SF	3	E			31															
	RAMY	31	1356	1359	1410	N25 E29	8651	08	2.8	14	SF	3	E			32	FH														
0537	RAMY	31	1358	1358	1403	S20 W17	8645	07	30.3	5	SF	3	E			14	F														
0538	31	1414	1417	1422	S22 W16	8645	07	30.4	8	SF					20																
	HOLL	31	1414	1418	1420	S23 W15	8645	07	30.4	6	SF	3	E			17															
	RAMY	31	1415	1417	1423	S22 W17	8645	07	30.3	8	SF	3	E			22															
0539	31	1422	1423	1444	N25 E29	8651	08	2.8	22	SF					25	FH															
	HOLL	31	1422	1424	1448	N25 E28	8651	08	2.8	26	SF	3	E			34															
	SVTO	31	1423	1423	1444	N25 E29	8651	08	2.8	21	SF	3	E			15															
	RAMY	31	1423	1424	1441	N25 E29	8651	08	2.8	18	SF	3	E			26	FH														
0540	31	1605	1611	1626	N25 E27	8651	08	2.8	21	SF					89	F															
	RAMY	31	1605	1611	1623	N25 E27	8651	08	2.8	18	SF	3	E			92	F														
	SVTO	31	1605	1611	1634	N25 E28	8651	08	2.8	29	SF	3	E			79															
	HOLL	31	1607	1612	1621	N25 E26	8651	08	2.7	14	SF	3	E			96															
0541	HOLL	31	1612	1612	1617	S22 W12	8645	07	30.7	5	SF	3	E			17															
0542	HOLL	31	1752	1754	1814	N02 E00	8645	07	31.7	22	1F	3	E			110															
0543	HOLL	31	1823	1825	1828	N25 E24	8651	08	2.6	5	SF	3	E			30															
																		31	1849	1912	No Flare Patrol										
																		31	1918	1925	No Flare Patrol										
0544	RAMY	31	1928	1929U	2020D	N25 E26	8651	08	2.8	52D	SF	3	E			15															
																		31	1934	2013	No Flare Patrol										
																		31	2028	2221	No Flare Patrol										
																		31	2228	2312	No Flare Patrol										

"Remarks"

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.

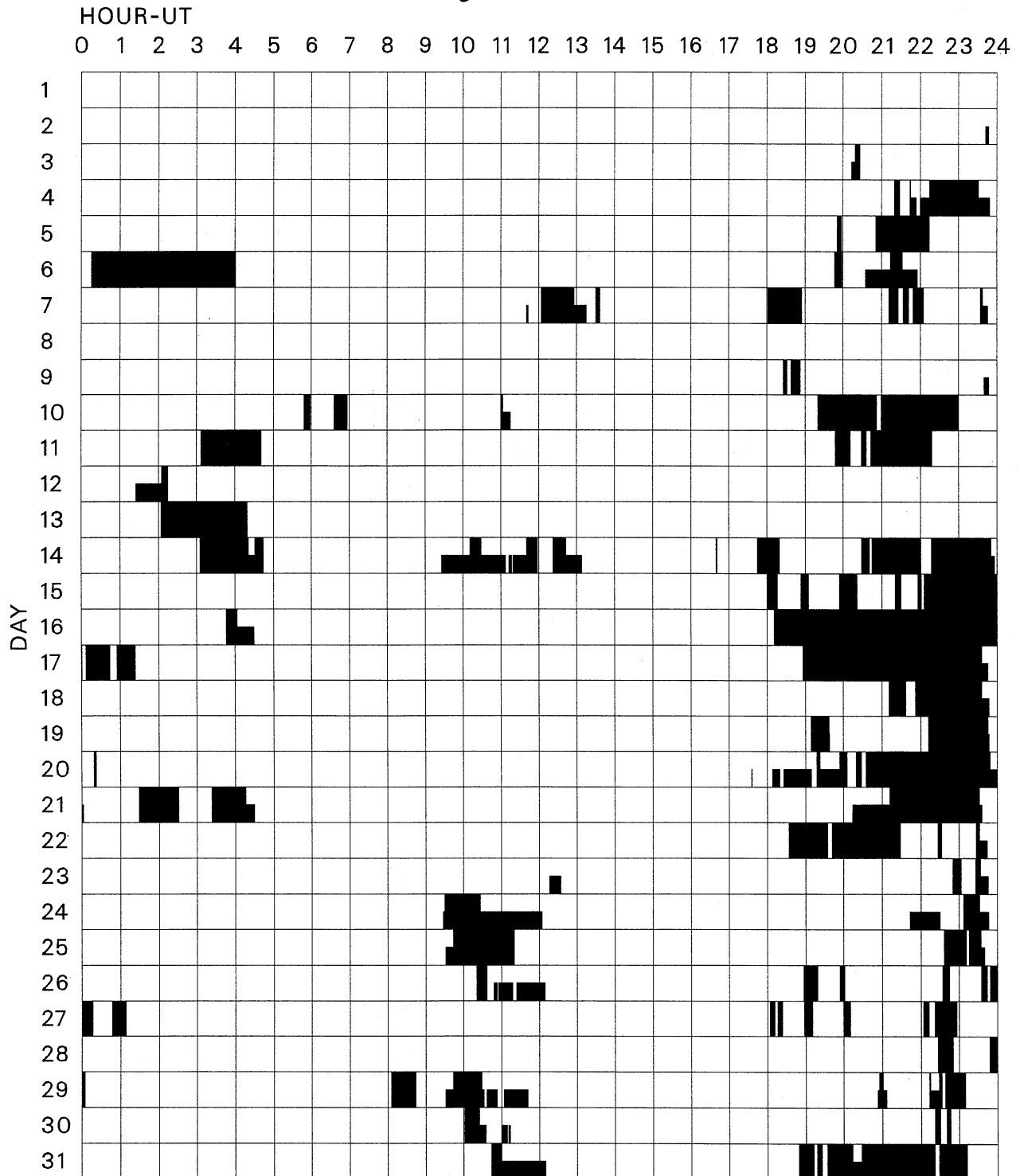
O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows Helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 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.

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

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Jul 99

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

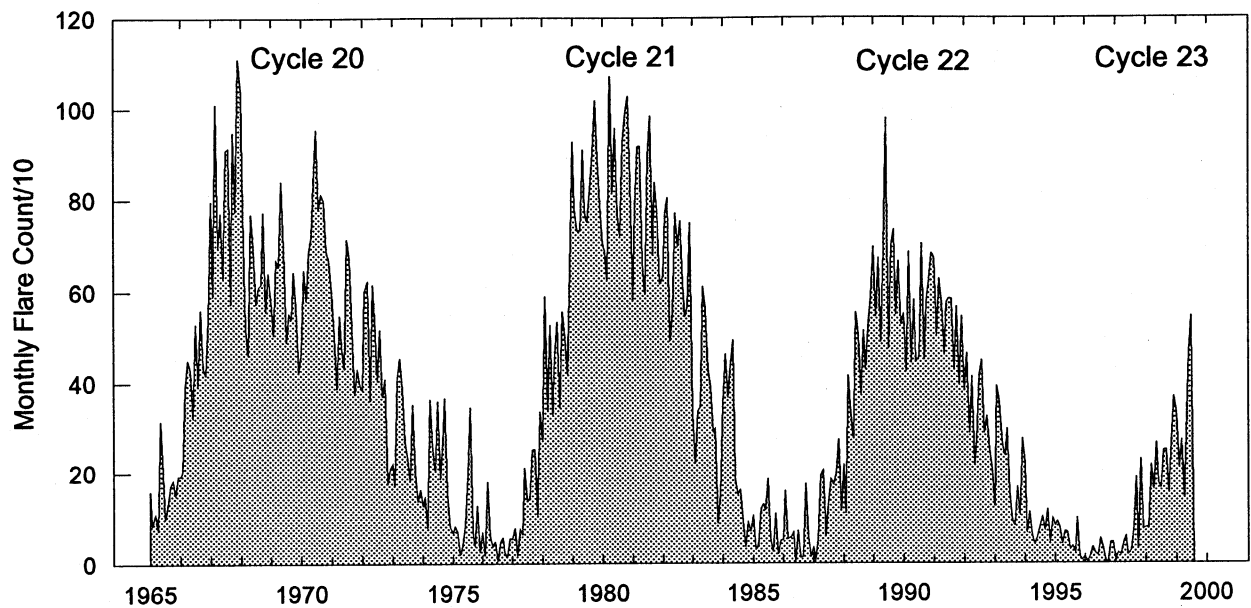
JULY 1999



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

Holloman	Kharkov	Learmonth	Ramey	San Vito
Kanzelhoehe	Mitaka	Voroshilov		

Monthly Counts of Grouped Solar Flares Jan 1965 - Jul 1999



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						2298

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

JULY 1999

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0620.0E		520.0D		11.0		V=1
	245	SVTO	43 NS	1419.0	1428.0	9.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1420.0	1420.0	8.0	92.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1544.0	2035.0	472.0	180.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1600.0	1600.0	11.0	52.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1925.0E		145.0D		38.0		
	235	CUBA	44 NS	1925.0E		145.0D		28.0		
	245	LEAR	49 GB	0056.0	0056.0	U	910.0			QL=2 ST=2 TYP=6
	245	PALE	49 GB	0056.0	0056.0	U	980.0			QL=4 ST=2 TYP=6
	500	HIRA	42 SER	0144.5	0144.7	0.8	80.0			WR
	245	PALE	8 S	0148.0	0149.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0304.0	0306.0	2.0	160.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0305.0	0306.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0434.0	0434.0	U	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0434.0	0434.0	U	62.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0457.0	0457.0	U	820.0			QL=2 ST=2 TYP=6
	410	SVTO	49 GB	0457.0	0457.0	U	670.0			QL=4 ST=2 TYP=6
	600	GORK	42 SER	0704.8	0705.5	18.1	6.0			
	600	GORK	42 SER	0704.8	0707.9		7.0			
	2950	GORK	7 C	0705.4	0706.5	6.6	3.8			
	2950	GORK	7 C	0705.4	0707.9		11.0			
	900	GORK	1 S	0707.4	0708.2	1.6	4.2			
	245	LEAR	8 S	0738.0	0738.0	1.0	89.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0738.0	0738.0	U	82.0			QL=4 ST=3 TYP=3
	204	IZMI	7 C	0738.1	0738.2	0.2	112.0			
	2950	GORK	3 S	0739.2	0740.1	3.4	23.0			
	900	GORK	40 F	0755.0	0757.2	3.0	4.0			
	2950	GORK	7 C	0755.4	0757.2		3.2			
	2950	GORK	7 C	0755.4	0756.3	2.8	4.0			
	33	UPIC	46 C	0808.7	0809.5	3.3				
	2950	GORK	4 S/F	0809.0	0810.0	2.6	9.2			
	245	LEAR	8 S	0809.0	0810.0	1.0	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0809.0	0810.0	1.0	170.0			QL=4 ST=2 TYP=3
	127	TORN	7 C	0809.0	0810.3	1.8	320.0	160.0		
	900	GORK	40 F	0809.0	0809.9	3.0	18.0			
	204	IZMI	41 F	0809.3	0810.2	1.6	266.0			
	245	SVTO	8 S	0902.0	0903.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1055.0	1056.0	5.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1055.0	1056.0	5.0	60.0			QL=4 ST=3 TYP=3
	610	SGMR	8 S	1056.0	1057.0	2.0	72.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1056.0	1057.0	1.0	72.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1056.0	1056.0	2.0	50.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1056.0	1057.0	1.0	80.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1056.7	1056.8	0.7	77.0			
245	SGMR	8 S	1209.0	1209.0	1.0	94.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1210.0	1210.0	U	50.0			QL=4 ST=2 TYP=3	
2800	PENT	40 F	1344.0	1346.0	7.0	26.0				
9500	CUBA	20 GRF	1345.0	1349.0	35.0	20.0	10.0			
6700	CUBA	22 GRF	1345.0	1346.0	36.0	13.0	6.0		15R	
6700	CUBA	20 GRF	1527.0	1534.0	45.0	8.0	4.0		00L	
245	SGMR	8 S	1529.0	1530.0	2.0	240.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1530.0	1530.0	U	86.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1550.0	1550.0	U	41.0			QL=2 ST=2 TYP=3	
9500	CUBA	20 GRF	1733.0	1746.0	105.0	40.0	20.0			
6700	CUBA	23 GRF	1738.0	1822.0	97.0	15.0	7.0		10R	
410	SGMR	8 S	1839.0	1839.0	U	86.0			QL=4 ST=2 TYP=3	
410	PALE	4 S/F	2017.0	2018.0	6.0	300.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2018.0	2018.0	U	270.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2021.0	2021.0	U	81.0			QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	2026.0	2033.0	53.0	13.0	6.0		8L	
2800	PENT	40 F	2130.0	2139.0	22.0	45.0				
6700	CUBA	2 S/F	2137.2	2140.0	4.6	31.0	15.0		3L	
2800	HIRA	46 C	2138.5	2140.0	6.5	60.0			0	
2695	SGMR	8 S	2139.0	2139.0	1.0	37.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	2139.0	2140.0	1.0	33.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	2139.0	2139.0	2.0	54.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2142.0	2144.0	2.0	72.0			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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Jul 99

JULY 1999

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	245	LEAR	43 NS	0525.0	0551.0	248.0	130.0			QL=2 ST=3 TYP=1
	245	SVTO	43 NS	0525.0	0550.0	440.0	200.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		20.0		
	127	TORN	44 NS	0620.0E		520.0D		16.0		V=2
	280	CUBA	44 NS	1300.0E		530.0D		21.0		
	235	CUBA	44 NS	1300.0E		530.0D		12.0		
	245	SGMR	43 NS	1418.0	1418.0	10.0	150.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2246.0	2253.0	42.0	340.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	0221.0	611.0	310.0			QL=2 ST=2 TYP=1
	4995	LEAR	4 S/F	0132.0	0133.0	7.0	130.0			QL=2 ST=2 TYP=3
	15400	LEAR	4 S/F	0132.0	0133.0	3.0	150.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0132.0	0133.0	6.0	170.0			QL=2 ST=2 TYP=3
	8800	PALE	4 S/F	0132.0	0133.0	6.0	140.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0132.0	0133.0	7.0	120.0			QL=4 ST=2 TYP=3
	2800	HIRA	45 C	0132.5	0134.0	6.0	50.0			0
	2695	LEAR	8 S	0133.0	0134.0	2.0	71.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0133.0	0133.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0133.0	0134.0	2.0	49.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0340.7	0342.5	8.3	85.0			
	900	GORK	4 S/F	0342.0	0345.0	5.2	34.0			
	610	PALE	8 S	0343.0	0344.0	1.0	36.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0343.0	0344.0	2.0	240.0			QL=4 ST=2 TYP=3
	2800	HIRA	46 C	0343.5	0343.7	2.2	50.0			WR
	600	GORK	2 S/F	0343.8	0344.6	1.7	6.7			
	410	PALE	8 S	0344.0	0345.0	1.0	37.0			QL=4 ST=2 TYP=3
	2950	GORK	5 S	0352.2	0354.4	4.0	7.8			
	245	LEAR	8 S	0417.0	0418.0	1.0	220.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0417.0	0418.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0502.0	0502.0	2.0	350.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0517.0	0519.0	2.0	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0558.0	0559.0	1.0	230.0			QL=2 ST=2 TYP=3
	2950	GORK	1 S	0618.9	0619.4	2.4	7.8			
	204	IZMI	41 F	0639.3	0639.4	0.6	63.0			
	2950	GORK	3 S	0719.3	0720.2	1.2	10.3			
	410	LEAR	8 S	0828.0	0829.0	1.0	270.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0828.0	0830.0	3.0	500.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0828.0	0829.0	1.0	200.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0828.5	0829.5	2.8	150.0			WR
	900	GORK	4 S/F	0828.8	0830.9	4.2	30.0			
	600	GORK	4 S/F	0828.8	0830.9	3.1	113.0			
	610	SVTO	8 S	0830.0	0830.0	U	240.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1037.0	1038.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1200.0	1200.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1213.0	1213.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1418.0	1418.0	1.0	130.0			QL=4 ST=2 TYP=3
	2800	PENT	31 ABS	1459.0	1517.0	28.0	51.0			
	6700	CUBA	21 GRF	1513.0	1520.0	106.0	21.0	10.0		00L
	8800	SGMR	4 S/F	1514.0	1517.0	6.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	1514.9	1517.4	2.6	105.0	52.0		27R
	15400	SGMR	8 S	1517.0	1517.0	2.0	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1517.0	1517.0	1.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1517.0	1517.0	1.0	84.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1517.0	1517.0	1.0	95.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1517.0	1517.0	1.0	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1517.0	1517.0	2.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1517.0	1517.0	2.0	76.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1656.0	1656.0	3.0	97.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1656.0	1657.0	1.0	730.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1656.0	1656.0	1.0	660.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1656.0	1656.0	1.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1656.0	1656.0	1.0	520.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1656.0	1656.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1720.0	1720.0	1.0	79.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1720.0	1720.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1720.0	1720.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1753.0	1754.0	1.0	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1934.8	1935.0	0.5	9.0	4.0		00L
	245	SGMR	8 S	2207.0	2208.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2241.0	2241.0	1.0	260.0			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
02	245	SGMR	8 S	2241.0	2241.0	U	190.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2246.0	2246.0	U	170.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2252.0	2253.0	1.0	460.0			QL=4 ST=2 TYP=3
03	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0620.0E		520.0D		8.0		V=1
	245	SVTO	43 NS	0636.0	1006.0	683.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1001.0E	1436.0U	423.0D	300.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		21.0		
	280	CUBA	44 NS	1300.0E		530.0D		30.0		
	245	PALE	43 NS	1944.0	2124.0	104.0	190.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1944.0	2125.0	107.0	130.0			QL=4 ST=2 TYP=1
	410	LEAR	8 S	0112.0	0112.0	U	120.0			QL=2 ST=2 TYP=3
	410	LEAR	49 GB	0136.0	0136.0	3.0	1000.0			QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0136.0	0136.0	2.0	1800.0			QL=2 ST=2 TYP=6
	410	PALE	49 GB	0136.0	0136.0	3.0	1300.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0136.0	0136.0	1.0	1500.0			QL=4 ST=2 TYP=6
	200	HIRA	8 S	0136.5	0136.6	0.2	260.0			0
	500	HIRA	8 S	0136.6	0136.8	0.4	150.0			0
	410	LEAR	4 S/F	0218.0	0219.0	3.0	88.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0218.0	0219.0	1.0	50.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	0218.0	0219.0	1.0	43.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0218.0	0219.0	4.0	67.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0234.0	0234.0	1.0	77.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0234.0	0236.0	3.0	120.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0234.0	0235.0	1.0	75.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0236.0	0236.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0249.0	0249.0	U	69.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0252.0	0253.0	2.0	500.0			QL=2 ST=2 TYP=3
	410	LEAR	49 GB	0252.0	0253.0	4.0	520.0			QL=2 ST=2 TYP=6
	610	PALE	4 S/F	0252.0	0255.0	6.0	91.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0252.0	0253.0	2.0	640.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0252.0	0255.0	6.0	560.0			QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0253.0	0255.0	3.0	96.0			QL=2 ST=2 TYP=3
	500	HIRA	42 SER	0253.2	0253.4	3.0	200.0			0
	410	PALE	8 S	0335.0	0335.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0342.0	0342.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0436.0	0438.0	2.0	110.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0436.0	0438.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0527.0	0528.0	3.0	200.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0529.0	0529.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0529.0	0530.0	2.0	1400.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0530.0	0530.0	1.0	1700.0			QL=2 ST=2 TYP=6
	610	LEAR	8 S	0530.0	0530.0	U	65.0			QL=2 ST=2 TYP=3
	500	HIRA	42 SER	0530.0	0530.5	0.8	280.0			0
	600	GORK	4 S/F	0530.2	0531.0	1.6	139.0			
900	GORK	4 S/F	0530.3	0530.9	1.3	22.0				
410	LEAR	49 GB	0535.0	0536.0	1.0	950.0			QL=2 ST=2 TYP=6	
610	LEAR	8 S	0535.0	0536.0	1.0	46.0			QL=2 ST=2 TYP=3	
610	SVTO	8 S	0535.0	0536.0	1.0	36.0			QL=4 ST=2 TYP=3	
410	SVTO	49 GB	0535.0	0536.0	1.0	990.0			QL=4 ST=2 TYP=6	
500	HIRA	8 S	0536.1	0536.2	0.2	70.0			0	
410	LEAR	8 S	0604.0	0604.0	U	110.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	0604.0	0604.0	U	35.0			QL=4 ST=3 TYP=3	
410	SVTO	8 S	0604.0	0604.0	U	150.0			QL=4 ST=3 TYP=3	
500	HIRA	8 S	0604.1	0604.2	0.2	50.0			0	
410	LEAR	8 S	0651.0	0651.0	1.0	72.0			QL=2 ST=2 TYP=3	
410	SVTO	8 S	0651.0	0651.0	1.0	85.0			QL=4 ST=2 TYP=3	
600	GORK	8 S	0658.1	0658.2	0.2	7.0				
900	GORK	8 S	0658.1	0658.2	0.4	14.0				
410	SVTO	8 S	0703.0	0704.0	1.0	87.0			QL=4 ST=2 TYP=3	
410	LEAR	8 S	0706.0	0706.0	1.0	94.0			QL=2 ST=2 TYP=3	
410	SVTO	8 S	0706.0	0707.0	1.0	190.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0713.0	0713.0	U	160.0			QL=2 ST=2 TYP=3	
600	GORK	41 F	0745.3	0751.1	11.0	122.0				
600	GORK	41 F	0745.3	0751.4		162.0U				
410	SVTO	8 S	0748.0	0748.0	U	210.0			QL=4 ST=2 TYP=3	
500	HIRA	47 GB	0750.0	0752.0	2.2	1300.0			0	
610	LEAR	8 S	0750.0	0752.0	2.0	480.0			QL=2 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
03	410	LEAR	49 GB	0750.0	0752.0	3.0	3400.0			QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0750.0	0752.0	2.0	750.0			QL=2 ST=2 TYP=6
	1415	LEAR	8 S	0750.0	0752.0	2.0	26.0			QL=2 ST=2 TYP=3
	410	SVTO	49 GB	0750.0	0752.0	2.0	3800.0			QL=4 ST=2 TYP=6
	610	SVTO	8 S	0751.0	0752.0	1.0	450.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0752.0	0752.0	0.1	146.0			
	245	SVTO	8 S	0752.0	0752.0		410.0		U	QL=2 ST=2 TYP=3
	2950	GORK	8 S	0752.2	0752.3	0.2	6.8			
	900	GORK	8 S	0752.3	0752.4	0.3	70.0			
	245	SVTO	8 S	0801.0	0802.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1032.0	1032.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1032.0	1033.0	1.0	56.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1032.0	1033.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1032.7	1033.1	0.6	71.0			
	245	SVTO	8 S	1305.0	1305.0	2.0	160.0			QL=2 ST=3 TYP=3
	33	UPIC	46 C	1326.0	1327.0	3.0				
	410	SGMR	4 S/F	1348.0	1348.0	4.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1350.0	1350.0		280.0		U	QL=2 ST=2 TYP=3
	8800	SGMR	8 S	1433.0	1433.0		72.0		U	QL=4 ST=2 TYP=3
	410	SGMR	8 S	1644.0	1645.0	2.0	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1644.0	1645.0	1.0	150.0			QL=4 ST=3 TYP=3
	2800	PENT	20 GRF	1758.0	1905.0	94.0U	15.0			
	6700	CUBA	21 GRF	1811.0	2018.0	198.0	15.0	7.0		9R
	6700	CUBA	1 S	1857.2	1859.8	4.6	18.0	9.0		13R
	410	PALE	8 S	2003.0	2003.0	1.0	75.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2003.0	2003.0	1.0	84.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2117.0	2121.0	26.0	17.0			
	610	PALE	8 S	2317.0	2318.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2317.0	2318.0	6.0	92.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	2318.0	2318.0		37.0		U	QL=4 ST=2 TYP=3
1415	PALE	8 S	2318.0	2318.0		33.0		U	QL=4 ST=2 TYP=3	
04	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0620.0E		520.0D		7.0		V=2
	235	CUBA	44 NS	1320.0E		330.0D		8.0		
	280	CUBA	44 NS	1320.0E		330.0D		14.0		
	245	SGMR	43 NS	1421.0	1421.0	2.0	110.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1516.0	1516.0	12.0	66.0			QL=4 ST=3 TYP=1
	600	GORK	40 F	0641.1	0642.8	3.8	6.0			
	2950	GORK	1 S	0645.0	0645.5	0.8	6.2			
	900	GORK	1 S	0645.0	0645.6	0.9	3.0			
	900	GORK	22 GRF	0820.1	0827.3		5.0			
	900	GORK	22 GRF	0820.1	0825.3	10.1	11.0			
	2950	GORK	5 S	0823.9	0825.5	4.5	11.0			
	3000	IZMI	20 GRF	0825.1	0825.8	12.9U	11.0			
	600	GORK	2 S/F	0919.7	0923.4		10.0			
	600	GORK	2 S/F	0919.7	0922.9	9.2	13.0			
	204	IZMI	42 SER	0921.3	0922.8	2.5	975.0			
	245	LEAR	8 S	0922.0	0922.0		270.0		U	QL=2 ST=2 TYP=3
	410	LEAR	49 GB	0922.0	0922.0	1.0	680.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0922.0	0922.0	3.0	530.0			QL=2 ST=2 TYP=6
	410	SVTO	8 S	0922.0	0922.0	1.0	180.0			QL=4 ST=2 TYP=3
	2950	GORK	45 C	0922.0	0923.1		6.4			
	2950	GORK	45 C	0922.0	0922.4	1.2	3.7			
	200	HIRA	42 SER	0922.5	0926.0	3.8	110.0			0
	900	GORK	2 S/F	0922.6	0923.2	1.1	6.0			
	500	HIRA	8 S	0922.7	0922.8	0.2	40.0			WL
	204	IZMI	42 SER	0924.7	0925.0	0.6	97.0			
	204	IZMI	42 SER	0925.9	0926.3	0.9	1033.0			
	245	LEAR	49 GB	0926.0	0926.0		690.0		U	QL=2 ST=2 TYP=6
	245	SVTO	8 S	0926.0	0926.0		410.0		U	QL=2 ST=2 TYP=3
	245	LEAR	8 S	0931.0	0933.0	2.0	68.0			QL=2 ST=3 TYP=3
245	SGMR	4 S/F	1103.0	1107.0	4.0	64.0			QL=4 ST=3 TYP=3	
204	IZMI	42 SER	1135.8	1136.6	1.6	107.0				
245	SGMR	8 S	1413.0	1413.0		83.0		U	QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1420.0	1423.0	3.0	260.0			QL=2 ST=2 TYP=3	
6700	CUBA	20 GRF	1610.0	1620.0	43.0	15.0	7.0		00L	
200	HIRA	8 S	2050.7	2050.8	0.2	90.0			0	
245	PALE	8 S	2131.0	2131.0	1.0	130.0			QL=4 ST=2 TYP=3	

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JULY 1999

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
04	245	SGMR	8 S	2131.0	2131.0	1.0	110.0		QL=4 ST=3 TYP=3	
	245	SGMR	8 S	2143.0	2144.0	1.0	80.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2143.0	2144.0	2.0	150.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2143.0	2144.0	2.0	340.0		QL=4 ST=2 TYP=3	
	500	HIRA	46 C	2143.5	2144.0	1.8	270.0		MR	
	610	SGMR	8 S	2208.0	2209.0	2.0	27.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2208.0	2209.0	2.0	73.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2208.0	2209.0	2.0	110.0		QL=4 ST=2 TYP=3	
	500	HIRA	42 SER	2209.5	2215.3	6.0	200.0		MR	
	245	PALE	8 S	2215.0	2215.0	1.0	220.0		QL=4 ST=2 TYP=3	
	410	PALE	8 S	2215.0	2215.0	U	190.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2215.0	2215.0	1.0	170.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2215.0	2215.0	1.0	62.0		QL=4 ST=2 TYP=3	
	200	HIRA	8 S	2215.0	2215.3	0.6	70.0		0	
	4995	SGMR	20 GRF	2233.0	2234.0	7.0	41.0		QL=4 ST=3 TYP=2	
	8800	SGMR	20 GRF	2233.0	2237.0	7.0	32.0		QL=4 ST=3 TYP=2	
	2695	SGMR	20 GRF	2233.0	2234.0	7.0	24.0		QL=4 ST=3 TYP=2	
	15400	SGMR	20 GRF	2237.0	2240.0	3.0	20.0		QL=4 ST=3 TYP=2	
	610	PALE	4 S/F	2243.0	2244.0	3.0	460.0		QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	2243.0	2246.0	4.0	54.0		QL=4 ST=3 TYP=3	
	245	PALE	49 GB	2244.0	2245.0	2.0	1600.0		QL=4 ST=2 TYP=6	
	410	PALE	49 GB	2244.0	2245.0	2.0	7300.0		QL=4 ST=2 TYP=6	
	410	SGMR	49 GB	2244.0	2245.0	2.0	9000.0		QL=4 ST=3 TYP=6	
	245	SGMR	49 GB	2244.0	2245.0	2.0	1400.0		QL=4 ST=3 TYP=6	
	610	SGMR	4 S/F	2244.0	2244.0	3.0	440.0		QL=4 ST=3 TYP=3	
	500	HIRA	47 GB	2244.7	2244.8	0.2	1700.0		MR	
	200	HIRA	47 GB	2245.0	2245.2	1.0	1600.0		WR	
	610	PALE	4 S/F	2313.0	2315.0	3.0	160.0		QL=4 ST=2 TYP=3	
	245	PALE	8 S	2313.0	2315.0	2.0	280.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2313.0	2314.0	2.0	130.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2313.0	2313.0	2.0	150.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2313.0	2314.0	2.0	48.0		QL=4 ST=2 TYP=3	
	500	HIRA	47 GB	2313.5	2314.0	3.0	950.0		MR	
	200	HIRA	42 SER	2313.5	2315.0	1.8	370.0		0	
	410	PALE	49 GB	2315.0	2315.0	U	1400.0		QL=4 ST=2 TYP=6	
	245	SGMR	8 S	2315.0	2315.0	1.0	150.0		QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	2315.0	2315.0	1.0	1000.0		QL=4 ST=2 TYP=6	
	610	SGMR	8 S	2315.0	2315.0	1.0	110.0		QL=4 ST=2 TYP=3	
	410	LEAR	4 S/F	2352.0	2354.0	3.0	180.0		QL=2 ST=3 TYP=3	
	245	LEAR	4 S/F	2352.0	2353.0	8.0	100.0		QL=2 ST=3 TYP=3	
610	LEAR	8 S	2352.0	2354.0	2.0	91.0		QL=2 ST=3 TYP=3		
500	HIRA	42 SER	2352.5	2354.5	2.8	200.0		MR		
200	HIRA	47 GB	2354.0	2354.5	1.8	1000.0		0		
05	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	235	CUBA	44 NS	1900.0E		85.0D		6.0		
	280	CUBA	44 NS	1900.0E		85.0D		10.0		
	2800	PENT	1 S	0032.0	0034.0	3.0	8.0			
	200	HIRA	8 S	0118.7	0118.8	0.2	80.0		0	
	245	LEAR	8 S	0255.0	0256.0	1.0	52.0		QL=2 ST=2 TYP=3	
	245	LEAR	48 C	0316.0	0332.0	16.0	460.0		QL=2 ST=2 TYP=8	
	245	PALE	48 C	0316.0	0332.0	16.0	800.0		QL=4 ST=2 TYP=8	
	200	HIRA	46 C	0316.0	0319.0	26.0	200.0		WR	
	410	LEAR	8 S	0317.0	0318.0	2.0	31.0		QL=2 ST=2 TYP=3	
	410	PALE	4 S/F	0317.0	0318.0	17.0	27.0		QL=4 ST=2 TYP=3	
	600	GORK	41 F	0326.2	0326.5	8.3	27.0			
	600	GORK	41 F	0326.2	0332.5		39.0			
	900	GORK	3 S	0332.4	0332.6	0.6	8.0			
	500	HIRA	47 GB	0332.6	0332.7	0.2	2100.0		WR	
	2950	GORK	6 S	0439.0	0440.4	2.7	4.1			
	600	GORK	3 S	0440.0	0440.2	0.6	15.0			
	900	GORK	41 F	0440.0	0440.2	1.9	8.0			
	610	LEAR	8 S	0528.0	0528.0	1.0	170.0		QL=2 ST=2 TYP=3	
	610	SVTO	8 S	0528.0	0528.0	1.0	130.0		QL=4 ST=2 TYP=3	
900	GORK	41 F	0528.6	0532.3		26.0				
600	GORK	41 F	0528.6	0532.3		26.0				
900	GORK	41 F	0528.6	0528.8	4.1	156.0				
600	GORK	41 F	0528.6	0528.9	4.0	4638.0				
610	LEAR	8 S	0608.0	0609.0	1.0	83.0		QL=2 ST=2 TYP=3		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
05	610	SVTO	8 S	0608.0	0609.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0651.0	0651.0	1.0	330.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0748.0	0749.0	1.0	56.0			QL=2 ST=2 TYP=3
	245	SVTO	49 GB	0748.0	0749.0	3.0	1800.0			QL=4 ST=2 TYP=6
	204	IZMI	42 SER	0748.6	0749.2	0.7	241.0			
	200	HIRA	8 S	0748.7	0749.0	0.6	70.0			WR
	600	GORK	40 F	0748.8	0749.9	2.4	10.0			
	2950	GORK	6 S	0749.0	0750.0	3.2	4.1			
	900	GORK	8 S	0749.1	0749.2	0.2	5.2			
	600	GORK	41 F	0834.9	0837.4	7.5	110.0			
	204	IZMI	42 SER	0835.6	0839.7	4.2	178.0			
	410	LEAR	8 S	0836.0	0837.0	1.0	44.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0836.6	0836.7	0.2	60.0			0
	610	LEAR	8 S	0837.0	0837.0		140.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0837.0	0837.0	1.0	58.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0837.0	0837.0		65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0837.0	0837.0		50.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0837.0	0837.0		140.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0837.1	0838.7	3.0	90.0			
	500	HIRA	42 SER	0837.5	0837.6	3.0	130.0			WR
	600	GORK	40 F	0901.4	0903.1	2.2	82.0			
	900	GORK	2 S/F	0903.0	0903.2	0.6	12.0			
	245	SGMR	8 S	1317.0	1318.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1317.0	1317.0		700.0			QL=2 ST=3 TYP=6
	245	SGMR	8 S	1617.0	1618.0	2.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1617.0	1618.0	2.0	150.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1712.0	1713.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1713.0	1713.0	1.0	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1713.0	1713.0	1.0	98.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1713.0	1713.0		32.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1713.0	1713.0	1.0	87.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1713.0	1713.0	1.0	74.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1713.0	1713.0		38.0			QL=2 ST=2 TYP=3
245	SGMR	4 S/F	1717.0	1722.0	5.0	72.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1755.0	1756.0	1.0	91.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1755.0	1758.0	5.0	90.0			QL=4 ST=2 TYP=3	
9500	CUBA	20 GRF	1832.0	1848.0	37.0	17.0	8.0			
2800	PENT	1 S	2213.0	2217.0	7.0	11.0				
06	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	245	SGMR	43 NS	1835.0	1836.0	107.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2343.0	2343.0	117.0	160.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2346.0	2353.0	103.0	86.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0325.0	0325.0	1.0	53.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0425.0	0425.0		80.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0425.0	0425.0		51.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0540.0	0541.0	1.0	97.0			QL=4 ST=2 TYP=3
	600	GORK	42 SER	0632.1	0635.3		2.0			
	600	GORK	42 SER	0632.1	0632.5	3.8	2.0			
	900	GORK	42 SER	0632.2	0635.4		3.0			
	900	GORK	42 SER	0632.2	0632.6	3.5	6.0			
	245	LEAR	8 S	0656.0	0656.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0656.0	0657.0	1.0	160.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0913.0	0913.0	1.0	67.0			QL=4 ST=3 TYP=3
204	IZMI	7 C	1123.2	1123.2	0.1	98.0				
6700	CUBA	20 GRF	1526.0	1538.0	26.0	8.0	4.0		OOL	
245	SGMR	8 S	1743.0	1744.0	1.0	68.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1846.0	1846.0	1.0	110.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1851.0	1852.0	1.0	78.0			QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	1851.0	2029.0	100.0D	17.0			OOL 2031 OFF	
245	LEAR	8 S	2343.0	2343.0	2.0	160.0			QL=2 ST=2 TYP=3	
07	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	235	CUBA	44 NS	1300.0E		400.0D		10.0		
	280	CUBA	44 NS	1300.0E		400.0D		13.0		
	245	SGMR	43 NS	1405.0	1715.0	483.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2013.0	2036.0	115.0	160.0			QL=4 ST=2 TYP=1

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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			
07	200	HIRA	8 S	0103.9	0104.0	0.2	310.0		0		
	245	LEAR	4 S/F	0150.0	0159.0	10.0	340.0		0	QL=2 ST=2 TYP=3	
	410	LEAR	8 S	0159.0	0159.0	1.0	57.0		0	QL=2 ST=2 TYP=3	
	200	HIRA	8 S	0159.8	0159.9	0.2	200.0		0		
	245	LEAR	8 S	0227.0	0227.0	U	250.0		0	QL=2 ST=2 TYP=3	
	245	PALE	8 S	0227.0	0227.0	U	380.0		0	QL=4 ST=2 TYP=3	
	200	HIRA	8 S	0227.1	0227.2	0.2	90.0		0		
	245	LEAR	4 S/F	0228.0	0230.0	4.0	160.0		0	QL=2 ST=2 TYP=3	
	245	LEAR	8 S	0342.0	0343.0	1.0	160.0		0	QL=2 ST=2 TYP=3	
	245	PALE	8 S	0342.0	0343.0	1.0	170.0		0	QL=4 ST=2 TYP=3	
	610	LEAR	8 S	0343.0	0343.0	U	110.0		0	QL=2 ST=2 TYP=3	
	610	PALE	8 S	0343.0	0343.0	2.0	220.0		0	QL=4 ST=2 TYP=3	
	600	GORK	41 F	0343.0	0345.1		20.5				
	600	GORK	41 F	0343.0	0343.3	6.6	132.0				
	500	HIRA	8 S	0344.9	0345.0	0.2	30.0		0		
	900	GORK	41 F	0517.6	0520.5	5.7	4.0				
	600	GORK	41 F	0517.7	0520.6	4.4	14.0				
	200	HIRA	42 SER	0520.5	0520.6	0.6	150.0		0		
	204	IZMI	41 F	0551.4	0551.4	0.3	55.0				
	245	SVTO	8 S	0603.0	0605.0	2.0	96.0			0	QL=2 ST=2 TYP=3
	245	SVTO	49 GB	0619.0	0620.0	4.0	1600.0			0	QL=2 ST=3 TYP=6
	204	IZMI	42 SER	0619.0	0620.5	1.9	1140.0				
	33	UPIC	42 SER	0619.0	0619.5U	510.0					
	200	HIRA	42 SER	0619.7	0620.5	1.2	230.0		0		
	245	LEAR	8 S	0620.0	0620.0	U	240.0			0	QL=2 ST=2 TYP=3
	410	SVTO	8 S	0620.0	0620.0	U	100.0			0	QL=4 ST=2 TYP=3
	204	IZMI	7 C	0729.2	0729.2	0.1	101.0				
	2950	GORK	1 S	0840.8	0841.3	1.2	3.6				
	200	HIRA	42 SER	0847.5	0848.0	6.0	450.0		0		
	204	IZMI	42 SER	0847.6	0848.2	8.6	1511.0				
	410	LEAR	8 S	0848.0	0848.0	U	53.0			0	QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0848.0	0848.0	U	720.0			0	QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0848.0	0848.0	1.0	640.0			0	QL=2 ST=2 TYP=6
	410	SVTO	8 S	0848.0	0848.0	U	54.0			0	QL=4 ST=2 TYP=3
	500	HIRA	8 S	0848.0	0848.1	0.2	30.0			0	
	245	LEAR	8 S	0850.0	0850.0	U	84.0			0	QL=2 ST=2 TYP=3
	410	LEAR	8 S	0850.0	0850.0	U	51.0			0	QL=2 ST=2 TYP=3
	204	IZMI	41 F	0918.8	0919.0	0.4	97.0				
	245	SVTO	8 S	0919.0	0919.0	U	80.0			0	QL=2 ST=2 TYP=3
	200	HIRA	8 S	0935.0	0935.1	0.2	70.0				
	204	IZMI	41 F	0935.5	0935.6	0.3	103.0				
	2950	GORK	7 C	1000.0	1000.6	2.9	5.5				
	2950	GORK	7 C	1001.0	1001.9		5.9				
	204	IZMI	42 SER	1133.7	1135.4	4.4	29.0				
	245	SVTO	8 S	1258.0	1258.0	2.0	220.0			0	QL=4 ST=2 TYP=3
245	SGMR	4 S/F	1259.0	1259.0	4.0	240.0			0	QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1446.0	1448.0	3.0	450.0			0	QL=4 ST=2 TYP=3	
410	SGMR	8 S	1447.0	1448.0	1.0	66.0			0	QL=4 ST=2 TYP=3	
245	SGMR	8 S	1447.0	1448.0	2.0	370.0			0	QL=4 ST=2 TYP=3	
235	CUBA	6 S	1447.0	1448.6	1.9	355.0					
280	CUBA	6 S	1447.0	1448.9	1.9	174.0					
245	SVTO	4 S/F	1713.0	1714.0	7.0	220.0			0	QL=2 ST=2 TYP=3	
280	CUBA	7 C	1714.0	1718.8	5.5	234.0					
235	CUBA	7 C	1714.0	1718.8	5.5D	127.0					
245	PALE	48 C	1715.0	1718.0	4.0	200.0			0	QL=4 ST=2 TYP=8	
410	SGMR	8 S	1718.0	1719.0	1.0	41.0			0	QL=4 ST=2 TYP=3	
245	SGMR	8 S	1718.0	1718.0	1.0	100.0			0	QL=4 ST=2 TYP=3	
410	SVTO	8 S	1719.0	1719.0	U	43.0			0	QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	1720.0	1809.0	91.0	11.0	5.0		0	00L	
245	PALE	8 S	2006.0	2007.0	1.0	79.0			0	QL=4 ST=2 TYP=3	
200	HIRA	8 S	2021.7	2021.8	0.2	110.0			0		
08	204	IZMI	44 NS	0600.0E		360.0D		10.0			
	127	TORN	44 NS	0920.0E		340.0D		1.0		V=2, DISTURBED	
	245	SGMR	43 NS	1015.0	1016.0	51.0	82.0			QL=4 ST=2 TYP=1	
	245	SVTO	44 NS	1022.0E	1102.0U	252.0D	140.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1204.0	1206.0	6.0	85.0			QL=4 ST=2 TYP=1	
	280	CUBA	44 NS	1300.0E		530.0D		15.0			
	235	CUBA	44 NS	1300.0E		530.0D		12.0			

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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	245	SGMR	43 NS	1329.0	1331.0	27.0	87.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1537.0	2114.0	338.0	170.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1715.0	1734.0	186.0	87.0			QL=4 ST=2 TYP=1
	900	GORK	4 S/F	0655.8	0657.9	12.2	55.0			
	600	GORK	2 S/F	0657.4	0658.0	0.8	9.5			
	245	LEAR	8 S	0720.0	0720.0		87.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0740.0	0740.0		75.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0806.0	0806.0	1.0	85.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0806.0	0806.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0913.9	0916.0	3.3	63.0			
	5730	IRKU	4 S/F	0926.0	0926.8	1.7	42.0		U	
	2950	GORK	6 S	0926.3	0926.9	2.9	10.0			
	9100	GORK	1 S	0926.4	0926.8	1.5	18.0			
	600	GORK	21 GRF	0941.7	0942.6	23.8	9.0			
	600	GORK	2 S/F	0950.9	0951.3	1.3	15.0			
	33	UPIC	45 C	1328.5	1330.0	3.0				
	33	UPIC	4 S/F	1343.5	1344.0	1.0				
	245	SVTO	8 S	1548.0	1548.0		83.0			QL=2 ST=2 TYP=3
	245	SGMR	4 S/F	2255.0	2300.0	5.0	92.0			QL=4 ST=2 TYP=3
	09	235	CUBA	44 NS	1300.0E		530.0D		8.0	
280		CUBA	44 NS	1300.0E		530.0D		15.0		
2800		PENT	46 C	0015.0	0026.0	15.0	15.0			
5730		IRKU	4 S/F	0018.6	0021.0	4.2	15.0		U	
610		LEAR	8 S	0019.0	0019.0		56.0			
245		PALE	8 S	0020.0	0020.0	1.0	88.0			QL=2 ST=2 TYP=3
610		PALE	46 C	0020.0	0024.0	4.0	42.0			QL=4 ST=2 TYP=8
410		PALE	8 S	0020.0	0020.0	1.0	26.0			QL=4 ST=2 TYP=3
410		LEAR	8 S	0024.0	0025.0	2.0	150.0			QL=2 ST=2 TYP=3
610		LEAR	8 S	0024.0	0024.0	2.0	53.0			QL=2 ST=2 TYP=3
245		LEAR	8 S	0024.0	0024.0	2.0	400.0			QL=2 ST=2 TYP=3
4995		LEAR	4 S/F	0024.0	0026.0	3.0	46.0			QL=2 ST=2 TYP=3
245		PALE	48 C	0024.0	0028.0	5.0	580.0			QL=4 ST=2 TYP=8
410		PALE	4 S/F	0024.0	0026.0	7.0	130.0			QL=4 ST=2 TYP=3
610		PALE	4 S/F	0024.0	0026.0	7.0	54.0			QL=4 ST=2 TYP=3
5730		IRKU	46 C	0024.1	0026.2	7.6	70.0		U	
500		HIRA	42 SER	0024.5	0026.5	2.6	70.0			0
4995		PALE	4 S/F	0025.0	0026.0	6.0	34.0			QL=4 ST=2 TYP=3
8800		PALE	4 S/F	0026.0	0026.0	5.0	28.0			QL=4 ST=2 TYP=3
245		LEAR	8 S	0157.0	0158.0	2.0	52.0			QL=2 ST=2 TYP=3
245		LEAR	8 S	0203.0	0204.0	1.0	140.0			QL=2 ST=2 TYP=3
245		PALE	8 S	0203.0	0204.0	1.0	120.0			QL=4 ST=2 TYP=3
245		LEAR	8 S	0308.0	0308.0		99.0			QL=2 ST=2 TYP=3
600		GORK	40 F	0431.6	0433.2	2.6	12.0			
2950		GORK	2 S/F	0522.0	0522.5	1.0	3.0			
900		GORK	45 C	0522.3	0522.7	0.7	5.0			
600		GORK	4 S/F	0522.4	0522.8	0.9	27.0			
5730		IRKU	1 S	0613.0	0614.0	2.8	22.0		U	
204		IZMI	42 SER	0613.1	0615.9	3.5	123.0			
245		LEAR	8 S	0615.0	0615.0	1.0	190.0			QL=2 ST=2 TYP=3
245		SVTO	8 S	0615.0	0615.0	1.0	160.0			QL=4 ST=2 TYP=3
2950		GORK	2 S/F	0643.5	0643.9	1.5	3.0			
600		GORK	8 S	0828.7	0828.9	0.5	35.0			
2950		GORK	5 S	0828.9	0829.7	0.9	3.5			
900		GORK	42 SER	0829.2	0829.7	4.5	12.0			
900		GORK	42 SER	0829.2	0833.7		11.0			
204		IZMI	7 C	1011.5	1011.6	0.3	50.0			
245		SGMR	8 S	1318.0	1318.0		81.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1318.0	1318.0		62.0			QL=4 ST=2 TYP=3
410		SGMR	8 S	1456.0	1456.0	2.0	49.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1456.0	1456.0	2.0	190.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1456.0	1456.0	1.0	150.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1456.0	1456.0	1.0	54.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	1511.0	1512.0	14.0					
245	PALE	48 C	1757.0	1758.0	6.0	310.0			QL=4 ST=2 TYP=8	
245	SGMR	4 S/F	1757.0	1758.0	3.0	330.0			QL=4 ST=2 TYP=3	
280	CUBA	6 S	1757.8	1802.5	5.4	174.0				
235	CUBA	6 S	1757.8	1759.5	8.6	239.0				
610	SGMR	4 S/F	1758.0	1800.0	3.0	12.0			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	
09	410	SGMR	4 S/F	1758.0	1800.0	3.0	16.0			QL=4 ST=2 TYP=3	
	2800	PENT	1 S	1800.0	1802.0	5.0	3.0				
	610	PALE	8 S	1802.0	1802.0	U	33.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	1802.0	1802.0	1.0	95.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1802.0	1802.0	1.0	190.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1802.0	1802.0	1.0	93.0			QL=4 ST=2 TYP=3	
	2800	PENT	1 S	1822.0	1823.0	3.0	9.0				
	6700	CUBA	1 S	1824.1	1824.5	1.4	6.0	3.0		9R	
	2800	PENT	1 S	1849.0	1854.0	10.0	12.0				
	6700	CUBA	21 GRF	1853.0	1857.0	24.0	5.0	2.0		00L	
	410	PALE	8 S	1854.0	1854.0	1.0	120.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1854.0	1854.0	U	14.0			QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	1854.0	1855.0	2.0	15.0			QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1854.0	1855.0	2.0	21.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1854.0	1854.0	2.0	120.0			QL=4 ST=2 TYP=3	
	9500	CUBA	1 S	1854.2	1855.2	2.4	15.0	7.0			
	6700	CUBA	1 S	1854.3	1855.2	2.2	13.0	6.0		21R	
	2800	PENT	1 S	1906.0	1909.0	5.0	3.0				
	245	PALE	8 S	1908.0	1908.0	1.0	120.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1908.0	1908.0	1.0	100.0			QL=4 ST=2 TYP=3	
	6700	CUBA	1 S	1909.0	1909.4	0.5	5.0	2.0		00L	
	6700	CUBA	1 S	1952.6	1954.4	3.4	4.0	2.0		14R	
	2800	PENT	1 S	2001.0	2002.0	3.0	16.0				
	245	PALE	8 S	2035.0	2035.0	1.0	60.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2035.0	2035.0	1.0	56.0			QL=4 ST=2 TYP=3	
	6700	CUBA	20 GRF	2037.0	2112.0	63.0	4.0	2.0		13R	
	245	PALE	8 S	2040.0	2040.0	U	150.0			QL=4 ST=2 TYP=3	
	9500	CUBA	20 GRF	2056.0	2114.0	34.0	13.0	6.0			
	2800	PENT	1 S	2349.0	2352.0	12.0	17.0				
	500	HIRA	6 S	2351.5	2353.0	3.6	480.0			0	
	245	LEAR	8 S	2352.0	2352.0	2.0	140.0			QL=2 ST=2 TYP=3	
	410	LEAR	49 GB	2352.0	2353.0	4.0	580.0			QL=2 ST=2 TYP=6	
	610	LEAR	8 S	2352.0	2353.0	2.0	250.0			QL=2 ST=2 TYP=3	
	410	PALE	49 GB	2352.0	2353.0	4.0	540.0			QL=4 ST=2 TYP=6	
	245	PALE	8 S	2352.0	2352.0	2.0	140.0			QL=4 ST=2 TYP=3	
	610	PALE	8 S	2352.0	2353.0	2.0	230.0			QL=4 ST=2 TYP=3	
	1415	PALE	8 S	2352.0	2352.0	1.0	34.0			QL=4 ST=2 TYP=3	
	5730	IRKU	4 S/F	2352.0	2353.3	4.5	25.0		U		
	10	235	CUBA	44 NS	1300.0E		530.0D		6.0		
		280	CUBA	44 NS	1300.0E		530.0D		14.0		
2950		GORK	41 F	0552.9	0557.0		12.0				
2950		GORK	41 F	0552.9	0553.2	7.1	17.0				
2950		GORK	41 F	0552.9	0553.7		13.0				
600		GORK	41 F	0553.0	0557.0	11.8	13.0				
600		GORK	41 F	0553.0	0559.3		7.7				
3000		IZMI	40 F	0553.1	0553.3	6.8	20.0				
900		GORK	40 F	0553.1	0556.3	11.4	32.0				
204		IZMI	42 SER	0555.4	0556.2	2.2	30.0				
204		IZMI	7 C	0743.6	0743.8	0.3	58.0				
2950		GORK	20 GRF	0808.3	0840.0	46.0D	5.7				
204		IZMI	42 SER	1032.7	1032.8	1.7	20.0				
245		SGMR	8 S	1217.0	1217.0	U	55.0			QL=4 ST=2 TYP=3	
410		SVTO	8 S	1217.0	1217.0	U	47.0			QL=4 ST=2 TYP=3	
245		SVTO	8 S	1217.0	1217.0	U	44.0			QL=4 ST=2 TYP=3	
245		SGMR	8 S	1258.0	1258.0	2.0	79.0			QL=4 ST=2 TYP=3	
610		SGMR	8 S	1313.0	1313.0	1.0	69.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1313.0	1313.0	U	58.0			QL=4 ST=2 TYP=3		
6700	CUBA	20 GRF	1857.0	1920.0	48.0	18.0	9.0		8R		
2800	PENT	40 F	1911.0	1919.0	21.0U	37.0					
11	204	IZMI	43 NS	0600.0		360.0D		10.0			
	280	CUBA	44 NS	1300.0E		530.0D		15.0			
	235	CUBA	44 NS	1300.0E		530.0D		8.0			
	2800	PENT	4 S/F	0006.0	0011.0	14.0	39.0				
	245	LEAR	8 S	0011.0	0012.0	1.0	94.0			QL=2 ST=2 TYP=3	
	2695	LEAR	8 S	0011.0	0011.0	2.0	69.0			QL=4 ST=2 TYP=3	
	610	LEAR	8 S	0011.0	0012.0	2.0	83.0			QL=2 ST=2 TYP=3	
	1415	LEAR	8 S	0011.0	0012.0	1.0	27.0			QL=2 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
11	410	LEAR	8 S	0011.0	0012.0	2.0	220.0			QL=2 ST=2 TYP=3	
	4995	LEAR	8 S	0012.0	0012.0	U	23.0			QL=2 ST=2 TYP=3	
	500	HIRA	4 S/F	0012.0	0012.5	2.6	80.0			WL	
	204	IZMI	7 C	0715.7	0715.7	0.1	101.0				
	245	SVTO	8 S	0841.0	0842.0	1.0	240.0			QL=4 ST=2 TYP=3	
	204	IZMI	41 F	0841.7	0842.1	0.8	121.0				
	245	LEAR	8 S	0842.0	0842.0	U	190.0			QL=2 ST=2 TYP=3	
	600	GORK	8 S	0921.5	0922.1	1.2	35.0				
	900	GORK	8 S	0921.8	0922.1	0.8	62.0				
	204	IZMI	42 SER	0934.4	0935.0	1.2	31.0				
	204	IZMI	42 SER	0941.5	0942.3	1.0	228.0				
	245	SGMR	8 S	0945.0	0946.0	2.0	79.0			QL=2 ST=3 TYP=3	
	245	SVTO	8 S	0945.0	0946.0	2.0	150.0			QL=4 ST=2 TYP=3	
	204	IZMI	42 SER	0945.4	0946.7	2.4	117.0				
	245	SGMR	8 S	1015.0	1016.0	2.0	77.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1015.0	1017.0	2.0	100.0			QL=4 ST=2 TYP=3	
	33	UPIC	45 C	1015.5	1016.0	1.5					
	204	IZMI	42 SER	1050.6	1051.5	2.3	64.0				
	204	IZMI	41 F	1135.2	1135.4	0.6	82.0				
	6700	CUBA	20 GRF	1314.0U	1317.0	25.0D	7.0	3.0			OOL
	245	SGMR	8 S	1314.0	1314.0	1.0	64.0				QL=4 ST=2 TYP=3
	33	UPIC	45 C	1314.0	1314.5	2.0					
	245	SVTO	4 S/F	1418.0	1420.0	4.0	70.0				QL=4 ST=3 TYP=3
	245	SGMR	8 S	1419.0	1420.0	2.0	89.0				QL=4 ST=2 TYP=3
	33	UPIC	2 S/F	1420.5	1423.0	3.5					
	245	SGMR	4 S/F	1645.0	1647.0	5.0	70.0				QL=4 ST=2 TYP=3
	2800	PENT	1 S	1744.0	1747.0	6.0	3.0				
	245	PALE	8 S	1746.0	1746.0	1.0	220.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1746.0	1746.0	1.0	170.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1746.0	1746.0	U	34.0				QL=2 ST=2 TYP=3
245	SVTO	8 S	1746.0	1746.0	1.0	140.0				QL=2 ST=2 TYP=3	
5730	IRKU	4 S/F	2342.4	2342.7	1.4	20.0		U			
12	280	CUBA	44 NS	1300.0E		530.0D		17.0			
	235	CUBA	44 NS	1300.0E		530.0D		9.0			
	245	SGMR	43 NS	1427.0	1537.0	376.0	96.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	1635.0	1746.0	82.0	89.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	1745.0	1745.0	12.0	63.0			QL=2 ST=3 TYP=1	
	245	SVTO	43 NS	1745.0	1745.0	12.0				QL=2 ST=3 TYP=1	
	245	SVTO	43 NS	1745.0	1745.0	375.0	63.0			QL=2 ST=3 TYP=1	
	5730	IRKU	4 S/F	0038.6	0038.8	3.2	24.0		U		
	500	HIRA	8 S	0046.1	0046.2	0.2	100.0				0
	2950	GORK	7 C	0849.3	0851.0	6.4	6.4				
	2950	GORK	7 C	0849.3	0851.4		12.0				
	5730	IRKU	46 C	0849.4	0851.4	3.6	55.0		U		
	3000	IZMI	20 GRF	0850.2	0851.4	9.8	12.0		6.0		
	245	SGMR	8 S	1116.0	1117.0	1.0	52.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1150.9	1152.3	5.1	33.0				
	245	SGMR	8 S	1152.0	1152.0	U	100.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1152.0	1152.0	U	71.0				QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1304.0	1304.0	3.0	59.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1440.0	1441.0	1.0	64.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1530.0	1531.0	6.0	450.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1531.0	1531.0	U	580.0				QL=4 ST=2 TYP=6
	245	SVTO	8 S	1647.0	1648.0	1.0	150.0				QL=2 ST=2 TYP=3
	245	SGMR	4 S/F	1859.0	1902.0	3.0	200.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1941.0	1943.0	4.0	170.0				QL=4 ST=2 TYP=3
	245	SGMR	48 C	1941.0	1945.0	4.0	280.0				QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1942.0	1943.0	3.0	48.0				QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1942.0	1943.0	258.0	160.0				QL=4 ST=1 TYP=3
	6700	CUBA	2 S/F	1942.7	1943.5	5.5	10.0		5.0		24R
	610	PALE	8 S	1943.0	1943.0	1.0	44.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	1943.0	1943.0	1.0	37.0				QL=4 ST=2 TYP=3
610	SGMR	8 S	1943.0	1943.0	2.0	41.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1944.0	1945.0	2.0	280.0				QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1945.0	1946.0	1.0	13.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2251.0	2252.0	2.0	150.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2252.0	2252.0	1.0	110.0				QL=4 ST=2 TYP=3	
200	HIRA	4 S/F	2252.0	2252.5	1.0	80.0				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)	Mean	Int	Remarks
12	410	PALE	8 S	2321.0	2321.0	U	83.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2321.0	2321.0	U	39.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2324.0	2324.0	U	170.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2324.0	2324.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2324.0	2324.0	U	90.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2324.0	2324.2	0.4	50.0			0
	2800	PENT	1 S	2330.0	2332.0	6.0	11.0			
	245	LEAR	8 S	2335.0	2335.0	U	53.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2335.0	2335.0	U	50.0			QL=4 ST=2 TYP=3
13	204	IZMI	43 NS	0600.0		360.0D		15.0		
	127	TORN	44 NS	0710.0E		75.0D		2.0		V=1
	245	SVTO	43 NS	0736.0	1745.0	620.0	410.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1103.0	1325.0	469.0	120.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		12.0		
	280	CUBA	44 NS	1300.0E		530.0D		19.0		
	5730	IRKU	1 S	0421.8	0422.2	3.4	12.0		U	
	245	LEAR	8 S	0432.0	0432.0	U	61.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0439.0	0439.0	1.0	54.0			QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0556.0	0557.0	1.0	670.0			QL=2 ST=3 TYP=6
	245	SVTO	49 GB	0556.0	0557.0	5.0	570.0			QL=4 ST=2 TYP=6
	200	HIRA	4 S/F	0556.5	0556.7	1.2	350.0			WL
	900	GORK	4 S/F	0556.8	0558.3	3.2	42.0			
	600	GORK	4 S/F	0556.9	0558.2	3.3	45.0			
	410	LEAR	8 S	0557.0	0557.0	2.0	120.0			QL=2 ST=3 TYP=3
	610	LEAR	8 S	0557.0	0558.0	1.0	130.0			QL=2 ST=3 TYP=3
	610	SVTO	8 S	0557.0	0558.0	2.0	100.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0557.0	0557.0	2.0	170.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0557.0	0558.5	1.8	50.0			ML
	2950	GORK	2 S/F	0557.0E	0558.6	2.7D	8.0			
	1415	SVTO	4 S/F	0558.0	0558.0	3.0	38.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0620.0	0620.0	1.0	75.0			QL=2 ST=2 TYP=3
	600	GORK	7 C	0656.0	0656.6	1.0	3.9			
	900	GORK	7 C	0656.0	0656.6	1.3	4.0			
	245	LEAR	8 S	0736.0	0737.0	1.0	86.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0911.0	0912.0	6.0	57.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	1102.4	1103.2	15.2	160.0			
245	SGMR	4 S/F	1103.0	1103.0	4.0	100.0			QL=4 ST=3 TYP=3	
204	IZMI	41 F	1137.1	1137.8	1.2	42.0				
200	HIRA	4 S/F	2120.0	2120.2	0.6	70.0			0	
200	HIRA	4 S/F	2237.3	2237.5	0.6	50.0			WR	
14	204	IZMI	41 F	0816.4	0816.4	1.1	33.0			
	204	IZMI	42 SER	0822.2	0826.8	5.4	25.0			
	9500	CUBA	20 GRF	1307.0E	1321.0	45.0D	13.0			SUNRISE
	245	SGMR	8 S	1516.0	1516.0	U	64.0			QL=4 ST=2 TYP=3
15	204	IZMI	43 NS	0600.0		360.0D		5.0		
	204	IZMI	42 SER	0555.3	0556.3	1.1	26.0			
	204	IZMI	42 SER	0558.2	0558.5	0.6	207.0			
	200	HIRA	8 S	0558.5	0558.6	0.2	60.0			0
	245	SVTO	8 S	0607.0	0607.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0707.0	0709.0	2.0	250.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0933.7	0938.1	10.5	71.0			
	33	UPIC	45 C	0935.5	0936.0	1.5				
	245	SGMR	8 S	1230.0	1232.0	2.0	68.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1834.0	1837.0	4.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2034.0	2034.0	U	86.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2034.0	2034.0	U	84.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2257.0	2257.0	1.0	96.0			QL=4 ST=2 TYP=3	
16	204	IZMI	44 NS	0600.0E	1200.0D	360.0D		5.0		
	245	PALE	8 S	0024.0	0026.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0025.0	0026.0	1.0	74.0			QL=2 ST=2 TYP=3
	204	IZMI	7 C	0548.6	0548.7	0.3	30.0			
	600	GORK	42 SER	0631.5	0644.0		7.0			
	600	GORK	42 SER	0631.5	0640.4	13.0	60.0			
	600	GORK	42 SER	0631.5	0642.7		5.0			
	900	GORK	42 SER	0632.4	0638.0	12.1	9.0			

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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		
16	900	GORK	42 SER	0632.4	0640.4		10.0			
	900	GORK	42 SER	0632.4	0641.9		5.0			
	2950	GORK	41 F	0639.8	0642.1		11.0			
	2950	GORK	41 F	0639.8	0643.5		7.0			
	2950	GORK	41 F	0639.8	0640.5	5.3	5.0			
	3000	IZMI	5 S	0641.8	0642.0	1.7	11.0			
	204	IZMI	42 SER	0706.2	0706.4	2.5	68.0			
	600	GORK	7 C	0728.5	0738.7	10.5	6.0			
	2950	GORK	41 F	0738.0	0739.2	3.5	5.3			
	2950	GORK	41 F	0738.0	0741.2		7.5			
	900	GORK	7 C	0740.7	0741.2	0.7	5.0			
	204	IZMI	42 SER	0801.4	0802.5	1.4	83.0			
	900	GORK	42 SER	0841.3	0848.1		3.0			
	900	GORK	42 SER	0841.3	0842.6		14.0			
	900	GORK	42 SER	0841.3	0841.7	8.2	5.0			
	600	GORK	45 C	0842.0	0848.6		15.0			
	600	GORK	45 C	0842.0	0846.9	9.5	11.0			
	600	GORK	1 S	0843.0	0843.4	0.5	2.0			
	3000	IZMI	7 C	0844.5	0846.8	4.4	15.0			
	2950	GORK	4 S/F	0844.5	0846.9	12.5	10.0			
	410	SVTO	4 S/F	0845.0	0848.0	5.0	55.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0848.0	0848.0		51.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0852.2	0853.6	1.7	78.0			
	204	IZMI	45 C	0908.3	0908.4	0.4	902.0			
	204	IZMI	45 C	0912.1	0912.3	0.8	566.0			
	33	UPIC	3 S	1448.5	1449.5	1.5				
	2800	PENT	46 C	1542.0	1553.0	20.0	50.0			
	15400	SVTO	4 S/F	1547.0	1550.0	8.0	300.0			QL=4 ST=2 TYP=3
	6700	CUBA	46 C	1547.4	1551.8	10.1	209.0	66.0		00L
	9500	CUBA	46 C	1547.5	1550.6	10.5	236.0	68.0		
	15400	SGMR	4 S/F	1548.0	1550.0	9.0	290.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1548.0	1550.0	9.0	270.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1548.0	1551.0	9.0	170.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1548.0	1551.0	7.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1548.0	1551.0	7.0	220.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1548.0	1548.0	492.0	180.0			QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1549.0	1550.0	8.0	190.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1549.0	1551.0	6.0	180.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1550.0	1554.0	7.0	54.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1550.0	1550.0	5.0	42.0			QL=4 ST=2 TYP=3
2695	SVTO	4 S/F	1550.0	1554.0	5.0	67.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1551.0	1555.0	6.0	86.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1551.0	1555.0	6.0	59.0			QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1553.0	1554.0	4.0	36.0			QL=4 ST=2 TYP=3	
6700	CUBA	29 PBI	1557.5		11.4	25.0	12.0		00L	
6700	CUBA	20 GRF	1747.0	1810.0	56.0	8.0	4.0		00L	
6700	CUBA	20 GRF	1932.0	2024.0	82.0	8.0	4.0		00L	
17	33	UPIC	45 C	1540.5	1541.5	2.0				
	33	UPIC	45 C	1643.0	1643.5	1.0				
18	2800	PENT	41 F	0053.0	0100.0	10.0	22.0			
	600	GORK	2 S/F	0831.3	0832.9	2.2	8.0			
	2950	GORK	1 S	0832.5	0832.8	1.2	2.7			
	900	GORK	1 S	0832.5	0832.9	1.2	2.0			
	33	UPIC	3 S	1014.5	1015.0	1.5				
	2800	PENT	29 PBI	1455.0	1455.0	15.0	29.0			
	6700	CUBA	21 GRF	1749.0	1753.0	9.0	7.0	3.0		00L
	6700	CUBA	1 S	1750.0	1751.0	1.5	18.0	9.0		10L
	9500	CUBA	1 S	1750.0	1751.0	1.5	29.0	14.0		
	2800	PENT	20 GRF	1820.0	1845.0	50.0	5.0			
2800	PENT	1 S	2027.0	2030.0	6.0	16.0				
19	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	5730	IRKU	1 S	0149.4	0153.2	5.6	21.0			U
	2950	GORK	4 S/F	0811.3	0840.2	39.7	153.0			
	9100	GORK	20 GRF	0815.0	0839.6	155.8	120.0			
	900	GORK	47 GB	0816.7	0826.0	31.6	1500.0			
	3000	IZMI	21 GRF	0817.8	0827.2	129.2	54.0			

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

JULY 1999

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
19	5730	IRKU	46 C	0818.0	0840.0	74.0	126.0		U	
	600	GORK	47 GB	0820.2	0830.1	35.6	7000.0			
	204	IZMI	42 SER	0822.9	0832.3	21.1	102.0			
	3000	IZMI	45 C	0835.1	0839.9	12.5	91.0			
	33	UPIC	46 C	0846.5	0848.0	5.5				
20	204	IZMI	42 SER	0603.2	0603.4	1.2	31.0			
	204	IZMI	42 SER	0815.7	0817.8	5.1	73.0			
	204	IZMI	7 C	0821.0	0821.1	0.2	98.0			
21	245	SVTO	8 S	0814.0	0815.0	1.0	140.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0910.0	0911.5	4.0				
	2950	GORK	1 S	0911.9	0912.1	0.6	6.4			
	900	GORK	8 S	0912.0	0912.1	0.2	4.0			
	204	IZMI	7 C	0912.1	0912.1	0.1	115.0			
	204	IZMI	41 F	0913.1	0913.9	1.2	93.0			
	204	IZMI	7 C	1029.2	1029.3	0.4	29.0			
	33	UPIC	46 C	1403.5	1404.5	4.5				
	2800	PENT	1 S	1505.0	1508.0	4.0	4.0			
	2800	PENT	1 S	1838.0	1839.0	6.0	9.0			
	6700	CUBA	1 S	1841.0	1841.4	1.0	12.0	6.0		14L
	6700	CUBA	1 S	1851.2	1851.8	1.6	23.0	11.0		10L
	2800	PENT	20 GRF	2114.0	2134.0	37.0	14.0			
22	2800	PENT	1 S	0050.0	0053.0	6.0	9.0			
	900	GORK	5 S	0330.4	0331.3	3.2	7.0			
	600	GORK	2 S/F	0330.5	0331.3	2.0	5.0			
	600	GORK	40 F	0640.0	0644.1	5.7	8.0			
	204	IZMI	7 C	0645.6	0645.8	0.3	70.0			
	600	GORK	4 S/F	0806.0	0807.8	2.3	18.0			
	900	GORK	40 F	0806.5	0807.7	1.8	7.0			
	5730	IRKU	1 S	0828.8	0829.4	1.2	17.0		U	
	33	UPIC	46 C	1413.7	1414.5	2.3				
	2800	PENT	3 S	1819.0	1823.0	9.0	4.0			
	2800	PENT	4 S/F	2049.0	2106.0	58.0	26.0			
	6700	CUBA	21 GRF	2054.0	2207.0	80.00	26.0			10L SUNSET
	9500	CUBA	21 GRF	2055.0	2110.0	41.0	20.0	10.0		
	4995	PALE	4 S/F	2056.0	2057.0	8.0	65.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2056.0	2057.0	8.0	41.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2056.0	2057.0	12.0	93.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2057.0	2057.0	2.0	45.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	2059.8	2100.6	4.2	33.0	16.0		
	2800	PENT	3 S	2337.0	2342.0	11.0	4.0			
5730	IRKU	1 S	2342.6	2344.3	3.2	10.0		U		
5730	IRKU	1 S	2356.2	2356.4	0.8	10.0		U		
23	2800	PENT	29 PBI	0024.0	0035.0	41.0U	13.0			
	5730	IRKU	1 S	0214.9	0215.4	1.1	13.0		U	
	245	LEAR	8 S	0329.0	0329.0		380.0			
	9500	CUBA	20 GRF	1233.0E	1233.0	84.00	15.0			QL=2 ST=2 TYP=3
	6700	CUBA	20 GRF	1244.0E	1259.00	108.00	10.0			SUNRISE
	2800	PENT	21 GRF	1411.0	1509.0	141.0U	20.0			00L
	6700	CUBA	21 GRF	1439.0	1508.0	139.0	20.0	10.0		15L
	6700	CUBA	2 S/F	1511.8	1516.0	5.2	8.0	4.0		35L
	6700	CUBA	21 GRF	1822.0	2007.0	185.0	41.0	20.0		7R
	2800	PENT	40 F	1823.0	1855.0	69.0U	36.0			
	9500	CUBA	21 GRF	1832.0	2004.0	231.0	36.0	18.0		
	6700	CUBA	1 S	1846.0	1847.2	2.3	15.0	7.0		16L
	1415	PALE	4 S/F	1848.0	1857.0	26.0	61.0			QL=4 ST=2 TYP=3
	8800	SGMR	48 C	1849.0	1855.0	15.0	52.0			QL=4 ST=2 TYP=8
	2695	SGMR	46 C	1849.0	1855.0	15.0	40.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1849.0	1855.0	15.0	68.0			QL=4 ST=2 TYP=8
	4995	PALE	4 S/F	1851.0	1855.0	22.0	45.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1851.0	1855.0	23.0	21.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1851.0	1857.0	23.0	36.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	1851.2	1855.0	8.3	51.0	11.0		13L
	15400	PALE	4 S/F	1853.0	1857.0	22.0	17.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1853.8	1855.0	2.5	21.0	10.0		
	15400	SGMR	8 S	1854.0	1855.0	2.0	16.0			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	
23	1415	SGMR	8 S	1854.0	1855.0	1.0	9.0			QL=4 ST=2 TYP=3	
	2695	SGMR	46 C	1909.0	1921.0	16.0	21.0			QL=4 ST=2 TYP=8	
	4995	SGMR	46 C	1909.0	1925.0	17.0	41.0			QL=4 ST=2 TYP=8	
	1415	SGMR	4 S/F	1909.0	1910.0	16.0	41.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1909.0	1910.0	17.0	28.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1912.0	1913.0	1.0	140.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1913.0	1913.0	U	50.0			QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1913.0	1913.0	U	10.0			QL=4 ST=2 TYP=3	
	4995	SGMR	20 GRF	1937.0	1938.0	78.0	38.0			QL=4 ST=2 TYP=2	
	8800	SGMR	20 GRF	1937.0	2003.0	78.0	42.0			QL=4 ST=2 TYP=2	
	2695	SGMR	20 GRF	1938.0	1938.0	74.0	27.0			QL=4 ST=2 TYP=2	
	1415	SGMR	20 GRF	1938.0	2006.0	77.0	52.0			QL=4 ST=2 TYP=2	
	15400	SGMR	20 GRF	1946.0	1948.0	69.0	36.0			QL=4 ST=2 TYP=2	
	2695	PALE	4 S/F	2005.0	2006.0	4.0	28.0			QL=4 ST=2 TYP=3	
	1415	PALE	4 S/F	2005.0	2006.0	3.0	62.0			QL=4 ST=2 TYP=3	
	4995	PALE	8 S	2005.0	2007.0	2.0	25.0			QL=4 ST=2 TYP=3	
	200	HIRA	42 SER	2014.2	2015.6	1.6	110.0			WL	
	6700	CUBA	45 C	2059.0	2100.8	2.0	88.0			12L	
	2800	PENT	20 GRF	2101.0	2106.0	35.0	10.0				
	410	PALE	8 S	2317.0	2318.0	2.0	86.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2317.0	2318.0	1.0	41.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2318.0	2318.0	1.0	26.0			QL=2 ST=2 TYP=3	
	2800	PENT	1 S	2340.0	2341.0	3.0	8.0				
	245	LEAR	8 S	2341.0	2341.0	U	93.0			QL=2 ST=2 TYP=3	
	245	PALE	8 S	2341.0	2341.0	U	77.0			QL=4 ST=2 TYP=3	
	24	245	LEAR	8 S	0028.0	0028.0	U	160.0			QL=2 ST=2 TYP=3
		245	LEAR	8 S	0122.0	0122.0	1.0	52.0			QL=2 ST=2 TYP=3
		245	PALE	8 S	0122.0	0122.0	1.0	67.0			QL=4 ST=2 TYP=3
		5730	IRKU	1 S	0427.2	0428.5	4.8	8.0		U	
		600	GORK	8 S	0500.6	0500.9	0.5	7.0			
		2950	GORK	7 C	0500.8	0501.6	1.2	7.9			
		2950	GORK	7 C	0500.8	0501.8		16.2			
5730		IRKU	1 S	0532.8	0533.5	2.2	10.0		U		
3000		IZMI	20 GRF	0633.9	0637.6	11.8	13.0				
3000		IZMI	40 F	0706.6	0713.1	37.4	14.0				
2950		GORK	23 GRF	0712.0	0718.7	134.2	13.4				
2950		GORK	23 GRF	0712.0	0910.8		17.7				
9100		GORK	21 GRF	0718.0	0820.1	155.3	29.9				
5730		IRKU	46 C	0750.5	0752.8	6.1	60.0		U		
3000		IZMI	20 GRF	0751.0	0752.8	5.8	22.0				
2950		GORK	2 S/F	0751.5	0752.9	2.8	16.7				
9100		GORK	6 S	0752.2	0753.4	1.8	29.9				
3000		IZMI	20 GRF	0908.7	0910.4	2.8	13.0				
204		IZMI	45 C	0914.2	0915.2	1.9	149.0				
33		UPIC	45 C	1024.5	1025.5	1.5					
2695		SGMR	8 S	1120.0	1121.0	2.0	15.0			QL=4 ST=2 TYP=3	
8800		SGMR	8 S	1120.0	1121.0	2.0	61.0			QL=4 ST=2 TYP=3	
15400		SGMR	8 S	1120.0	1121.0	2.0	62.0			QL=4 ST=2 TYP=3	
204		IZMI	42 SER	1120.8	1121.2	0.6	23.0				
4995		SGMR	8 S	1121.0	1121.0	1.0	26.0			QL=4 ST=2 TYP=3	
15400		SVTO	8 S	1121.0	1121.0	U	41.0			QL=4 ST=2 TYP=3	
8800		SVTO	8 S	1121.0	1121.0	U	54.0			QL=4 ST=2 TYP=3	
3000		IZMI	5 S	1121.4	1121.7	0.8	10.0				
4995		SGMR	4 S/F	1125.0	1237.0	158.0	36.0			QL=2 ST=3 TYP=3	
8800		SGMR	20 GRF	1126.0	1237.0	152.0	45.0			QL=4 ST=3 TYP=2	
15400		SGMR	20 GRF	1127.0	1324.0	151.0	67.0			QL=4 ST=3 TYP=2	
1415		SGMR	8 S	1203.0	1203.0	1.0	62.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1203.0	1203.0	1.0	66.0			QL=4 ST=2 TYP=3		
4995	SGMR	20 GRF	1237.0	1339.0	81.0	29.0			QL=4 ST=3 TYP=2		
4995	SVTO	20 GRF	1237.0	1237.0	683.0	12.0			QL=4 ST=1 TYP=2		
6700	CUBA	20 GRF	1300.0E	1340.0	89.0D	19.0			7L SUNRISE		
6700	CUBA	21 GRF	1429.0	1506.0	93.0	8.0	4.0		00L		
2800	PENT	20 GRF	1439.0	1455.0	19.0	12.0					
6700	CUBA	1 S	1521.2	1523.3	3.6	6.0	3.0		2L		
2800	PENT	21 GRF	2030.0	2034.0	40.0	13.0					
6700	CUBA	20 GRF	2033.0	2044.0	45.0	23.0	11.0		9L		
25	245	SVTO	49 GB	0430.0	0430.0	1.0	3300.0			QL=2 ST=2 TYP=6	

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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		
25	245	SVTO	49 GB	0430.0	0430.0	1170.0	3300.0			QL=2 ST=2 TYP=6
	2950	GORK	4 S/F	0527.2	0529.8	6.7	12.0			
	9100	GORK	1 S	0528.4	0529.0	1.4	8.3			
	245	SVTO	8 S	0611.0	0611.0	U	68.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0611.0	0611.0	U	77.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0739.8	0746.0	51.8	15.0			
	33	UPIC	45 C	1019.2	1019.8	1.0				
	2695	SGMR	49 GB	1308.0	1314.0	30.0	600.0			QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	1309.0	1314.0	28.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	49 GB	1309.0	1314.0	29.0	1300.0			QL=4 ST=2 TYP=6
	245	SGMR	4 S/F	1310.0	1313.0	18.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	49 GB	1310.0	1314.0	27.0	1200.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	1311.0	1315.0	18.0	95.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1311.0	1315.0	26.0	450.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1312.0	1315.0	15.0	83.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1402.5	1403.0	1.5				
	2800	PENT	1 S	1408.0	1415.0	16.0	9.0			
	8800	SGMR	4 S/F	1836.0	1838.0	7.0	45.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1837.0	1838.0	6.0	47.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1845.0	1849.0	8.0	3.0			
26	2800	PENT	1 S	0003.0	0006.0	6.0	19.0			
	245	LEAR	8 S	0812.0	0812.0	1.0	290.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0812.0	0812.0	1.0	200.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0812.2	0812.4	0.4	100.0			0
	204	IZMI	45 C	0812.3	0812.4	0.6	238.0			
	204	IZMI	42 SER	1115.2	1117.3	3.2	47.0			
	245	SGMR	8 S	1116.0	1117.0	1.0	300.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1127.0	1127.5	1.5				
	204	IZMI	42 SER	1147.4	1147.9	4.4	53.0			
	6700	CUBA	21 GRF	1957.0	2016.0	114.0	6.0	3.0		00L
	6700	CUBA	1 S	2013.6	2014.7	1.4	7.0	3.0		18L
	245	SGMR	4 S/F	2019.0	2024.0	6.0	71.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2022.0	2025.0	3.0	100.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2024.4	2024.5	0.2	70.0			0
27	204	IZMI	45 C	0736.1	0737.4	3.0	372.0			
	245	SVTO	8 S	0737.0	0737.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0737.0	0737.0	983.0	380.0			QL=2 ST=1 TYP=3
	200	HIRA	42 SER	0737.0	0742.5	6.0	280.0			0
	204	IZMI	45 C	0740.9	0742.2	3.1	517.0			
	410	LEAR	8 S	0741.0	0742.0	1.0	37.0			QL=2 ST=2 TYP=3
	245	SVTO	49 GB	0741.0	0742.0	1.0	680.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0741.0	0742.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0741.0	0742.0	979.0	830.0			QL=2 ST=1 TYP=6
	245	LEAR	49 GB	0742.0	0742.0	U	720.0			QL=2 ST=2 TYP=6
	245	SVTO	8 S	0745.0	0745.0	1.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0745.5	0745.8	2.6	57.0			
	500	HIRA	8 S	0746.2	0746.3	0.2	40.0			WL
	245	SVTO	8 S	0815.0	0815.0	U	90.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0849.4	0855.8	12.8	15.0			
	9100	GORK	20 GRF	0852.0	0856.6	14.0	15.0			
	204	IZMI	7 C	1124.6	1124.9	0.4	30.0			
	9500	CUBA	21 GRF	1306.0E	1306.0	130.00	55.0			SUNRISE
	33	UPIC	46 C	1323.0	1329.0	8.0				
	6700	CUBA	21 GRF	1323.0E	1323.0	117.00	33.0			8R
	9500	CUBA	4 S/F	1330.0	1332.0	3.4	115.0	54.0		
	9500	CUBA	4 S/F	1330.0	1334.0U		101.0			
	6700	CUBA	46 C	1331.2	1333.4		113.0			18R
	6700	CUBA	46 C	1331.2	1332.5	9.8	127.0	33.0		20R
	2800	PENT	4 S/F	1352.0	1357.0	11.0	30.0			
	6700	CUBA	2 S/F	1354.9	1357.2	4.3	24.0	12.0		00L
	9500	CUBA	2 S/F	1355.0	1357.2	2.2	31.0	15.0		
	245	SGMR	8 S	1439.0	1439.0	U	58.0			QL=4 ST=2 TYP=3
245	SGMR	4 S/F	1457.0	1501.0	4.0	300.0			QL=4 ST=2 TYP=3	
410	SGMR	49 GB	1457.0	1501.0	4.0	2000.0			QL=4 ST=2 TYP=6	
610	SGMR	4 S/F	1457.0	1501.0	4.0	48.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1458.0	1501.0	3.0	200.0			QL=4 ST=2 TYP=3	
410	SVTO	49 GB	1459.0	1501.0	2.0	2000.0			QL=4 ST=2 TYP=6	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
27	6700	CUBA	23 GRF	1719.0	1728.0	23.0	9.0	4.0		00L
	2800	PENT	1 S	1853.0	1856.0	6.0	3.0			
28	280	CUBA	44 NS	1600.0E		350.0D		16.0		
	235	CUBA	44 NS	1600.0E		350.0D		9.0		
	8800	LEAR	4 S/F	0151.0	0157.0	18.0	310.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0151.0	0157.0	13.0	360.0			QL=2 ST=2 TYP=3
	2695	LEAR	4 S/F	0151.0	0157.0	11.0	450.0			QL=4 ST=2 TYP=3
	1415	LEAR	20 GRF	0151.0	0157.0	10.0	140.0			QL=4 ST=2 TYP=2
	1415	PALE	20 GRF	0151.0	0157.0	10.0	160.0			QL=4 ST=2 TYP=2
	4995	PALE	4 S/F	0151.0	0157.0	12.0	370.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0151.5	0157.0	12.5	340.0			ML
	500	HIRA	47 GB	0151.5	0210.5	20.0	550.0			ML
	2695	PALE	4 S/F	0152.0	0157.0	9.0	400.0			QL=4 ST=2 TYP=3
	610	LEAR	48 C	0152.0	0159.0	11.0	500.0			QL=2 ST=2 TYP=8
	610	PALE	48 C	0152.0	0159.0	11.0	450.0			QL=4 ST=2 TYP=8
	8800	PALE	4 S/F	0153.0	0157.0	8.0	260.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0153.0	0157.0	10.0	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0153.0	0157.0	11.0	180.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0154.0	0205.0	21.0	820.0			QL=2 ST=2 TYP=8
	410	PALE	48 C	0154.0	0205.0	21.0	910.0			QL=4 ST=2 TYP=8
	245	LEAR	49 GB	0156.0	0158.0	2.0	620.0			QL=2 ST=2 TYP=6
	200	HIRA	47 GB	0156.5	0157.5	4.8	3000.0			0
	245	PALE	8 S	0157.0	0158.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0217.0	0218.0	2.0	230.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0217.0	0218.0	6.0	260.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0217.0	0218.0	2.0	240.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0217.0	0219.0	3.0	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0643.0	0643.0	U	59.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0643.0	0643.0	1.0	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0643.5	0643.6	0.2	60.0			0
	2950	GORK	46 C	0808.4	0813.0U	21.6	55.0U			
	900	GORK	47 GB	0808.4	0813.0U	78.6	2100.0U			
	2950	GORK	46 C	0808.4	0814.3		95.0			
	900	GORK	47 GB	0808.4	0820.8		980.0U			
	3000	IZMI	45 C	0808.8	0813.0	27.3	99.0			
	2695	SVTO	4 S/F	0809.0	0813.0	9.0	97.0			QL=4 ST=2 TYP=3
	2695	LEAR	48 C	0809.0	0813.0	11.0	96.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0809.0	0818.0	24.0	450.0			QL=4 ST=2 TYP=8
	1415	SVTO	4 S/F	0809.0	0838.0	37.0	390.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0809.0	1008.0	138.0	6600.0			QL=2 ST=2 TYP=8
	600	GORK	47 GB	0809.3	0813.0U	148.5	18000.0U			
	600	GORK	47 GB	0809.3	0850.2		7000.0			
	600	GORK	47 GB	0809.3	0822.8U		18000.0U			
	2800	HIRA	46 C	0809.5	0812.8	11.0	70.0			0
	2800	HIRA	8 S	0809.7	0809.8	0.2	50.0			0
	8800	LEAR	4 S/F	0811.0	0813.0	6.0	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0811.0	0814.0	5.0	140.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	0811.0	0814.0	6.0	180.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0811.0	0813.0	6.0	180.0			QL=4 ST=2 TYP=3
	610	LEAR	48 C	0811.0	0814.0	92.0	55000.0			QL=2 ST=2 TYP=8
	610	SVTO	48 C	0811.0	0814.0	145.0	42000.0			QL=4 ST=3 TYP=8
	9100	GORK	46 C	0811.0	0814.2		112.0			
	9100	GORK	46 C	0811.0	0813.4		115.0			
	9100	GORK	46 C	0811.0	0812.9	9.5	100.0			
204	IZMI	45 C	0811.1	0855.8	142.2	1037.0				
500	HIRA	49 GB	0811.5	0814.5	90.0D	5900.0			SL, SUNSET	
15400	LEAR	4 S/F	0812.0	0814.0	5.0	110.0			QL=4 ST=2 TYP=3	
15400	SVTO	4 S/F	0812.0	0814.0	5.0	100.0			QL=4 ST=2 TYP=3	
245	LEAR	48 C	0812.0	0854.0	91.0	3300.0			QL=2 ST=2 TYP=8	
410	LEAR	48 C	0812.0	0852.0	91.0	45000.0			QL=2 ST=2 TYP=8	
410	SVTO	48 C	0812.0	0848.0	143.0	35000.0			QL=4 ST=2 TYP=8	
200	HIRA	49 GB	0815.0	0840.0	80.0D	650.0			SL, SUNSET	
2950	GORK	30 PBI	0830.0	0830.0	69.8	10.0				
2950	GORK	46 C	0836.8	0840.2	19.0	34.0				
3000	IZMI	29 PBI	0836.8	0844.2	27.8	39.0				
900	GORK	29 PBI	0927.0	0927.0	93.0D	14.0				
2950	GORK	46 C	0936.8	0844.4		44.0				
245	SGMR	20 GRF	1005.0E	1012.0U	25.0D	73.0			QL=2 ST=2 TYP=2	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
28	610	SGMR	20	GRF	1005.0E	1016.0U	29.0D	240.0		QL=2 ST=2 TYP=2
	410	SGMR	48	C	1005.0E	1018.0U	30.0D	880.0		QL=2 ST=2 TYP=8
	6700	CUBA	23	GRF	1613.0	1626.0	58.0	17.0	8.0	11L
	2800	PENT	21	GRF	1734.0	1805.0	117.0U	23.0		
	6700	CUBA	22	GRF	1750.0	1807.0	255.0D	35.0		00L SUNSET
	4995	SGMR	4	S/F	1803.0	1805.0	39.0	38.0		QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1805.0	1807.0	2.0	10.0		QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1805.0	1807.0	3.0	16.0		QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1805.0	1806.0	37.0	16.0		QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1805.0	1805.0	37.0	29.0		QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1806.0	1807.0	4.0	30.0		QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1925.0	1933.0	8.0	12.0		QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1925.0	1932.0	8.0	32.0		QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1925.0	1925.0	8.0	220.0		QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1925.0	1935.0	10.0	20.0		QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1925.0	1935.0	10.0	470.0		QL=4 ST=2 TYP=3
	610	SGMR	48	C	1925.0	1935.0	22.0	260.0		QL=4 ST=2 TYP=8
	245	PALE	4	S/F	1926.0	1934.0	9.0	52.0		QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	1930.0	1934.0	5.0	160.0		QL=4 ST=2 TYP=3
	410	SGMR	48	C	1930.0	1935.0	23.0	760.0		QL=4 ST=2 TYP=8
	245	SGMR	48	C	1930.0	1944.0	26.0	230.0		QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	1932.0	1935.0	16.0	160.0		QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1933.0	1935.0	16.0	40.0		QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1935.0	1935.0	5.0	15.0		QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1935.0	1935.0	14.0	12.0		QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1936.0	1938.0	13.0	26.0		QL=4 ST=2 TYP=3
	2800	PENT	1	S	2337.0	2344.0	32.0	53.0		
	29	235	CUBA	44	NS	1300.0E		530.0D		9.0
280		CUBA	44	NS	1300.0E		530.0D		17.0	
33		UPIC	42	SER	0933.0	0941.0	10.0			
245		LEAR	8	S	0940.0	0940.0	2.0	42.0		QL=2 ST=2 TYP=3
204		IZMI	7	C	0940.8	0940.8	0.1	22.0		
1415		SGMR	8	S	1310.0	1310.0	2.0	61.0		QL=4 ST=2 TYP=3
6700		CUBA	23	GRF	1423.0	1447.0	116.0	15.0	7.0	8L
1415		SGMR	4	S/F	1439.0	1442.0	4.0	85.0		QL=4 ST=2 TYP=3
2800		PENT	20	GRF	1439.0	1630.0	113.0U	14.0		
245		SGMR	8	S	1448.0	1448.0	U	140.0		QL=4 ST=2 TYP=3
245		SVTO	8	S	1448.0	1448.0	U	310.0		QL=4 ST=2 TYP=3
6700		CUBA	21	GRF	1625.0	1652.0	91.0	16.0	8.0	10R
6700		CUBA	1	S	1649.3	1650.0	2.0	11.0	5.0	00L
410		SGMR	4	S/F	1703.0	1704.0	5.0	220.0		QL=4 ST=2 TYP=3
610		SGMR	4	S/F	1704.0	1705.0	4.0	32.0		QL=4 ST=2 TYP=3
245		SGMR	8	S	1704.0	1705.0	2.0	21.0		QL=4 ST=2 TYP=3
6700		CUBA	21	GRF	1914.0	1939.0	171.0D	17.0		00L SUNSET
9500		CUBA	2	S/F	1932.2	1935.5	4.5	47.0	23.0	
4995		SGMR	4	S/F	1933.0	1934.0	8.0	73.0		QL=4 ST=2 TYP=3
6700		CUBA	2	S/F	1933.2	1934.5	5.7	62.0	31.0	12L
8800		PALE	8	S	1934.0	1934.0	1.0	33.0		QL=4 ST=2 TYP=3
4995		PALE	8	S	1934.0	1934.0	1.0	57.0		QL=4 ST=2 TYP=3
15400	SGMR	8	S	1934.0	1935.0	2.0	33.0		QL=4 ST=2 TYP=3	
8800	SGMR	8	S	1934.0	1934.0	2.0	50.0		QL=4 ST=2 TYP=3	
2695	SGMR	4	S/F	1934.0	1934.0	7.0	38.0		QL=4 ST=2 TYP=3	
30	280	CUBA	44	NS	1300.0E		530.0D		18.0	
	235	CUBA	44	NS	1300.0E		530.0D		10.0	
	5730	IRKU	1	S	0716.8	0719.0	11.2	21.0		U
	4995	SVTO	8	S	0718.0	0718.0	1.0	24.0		QL=4 ST=2 TYP=3
	245	SVTO	8	S	0719.0	0719.0	1.0	110.0		QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0831.8	0834.6	5.7	12.0	6.0	
	5730	IRKU	1	S	0838.5	0839.4	3.5	6.0		U
	5730	IRKU	1	S	0847.5	0849.7	40.5	28.0		U
	204	IZMI	42	SER	1114.6	1117.4	3.4	55.0		
	8800	SGMR	8	S	1207.0	1208.0	2.0	44.0		QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1208.0	1208.0	1.0	11.0		QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1208.0	1209.0	1.0	11.0		QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1422.0	1423.0	1.0	50.0		QL=4 ST=2 TYP=3
	2800	PENT	41	F	1446.0	1518.0	58.0	55.0		
2695	SVTO	4	S/F	1516.0	1519.0	4.0	64.0		QL=4 ST=2 TYP=3	

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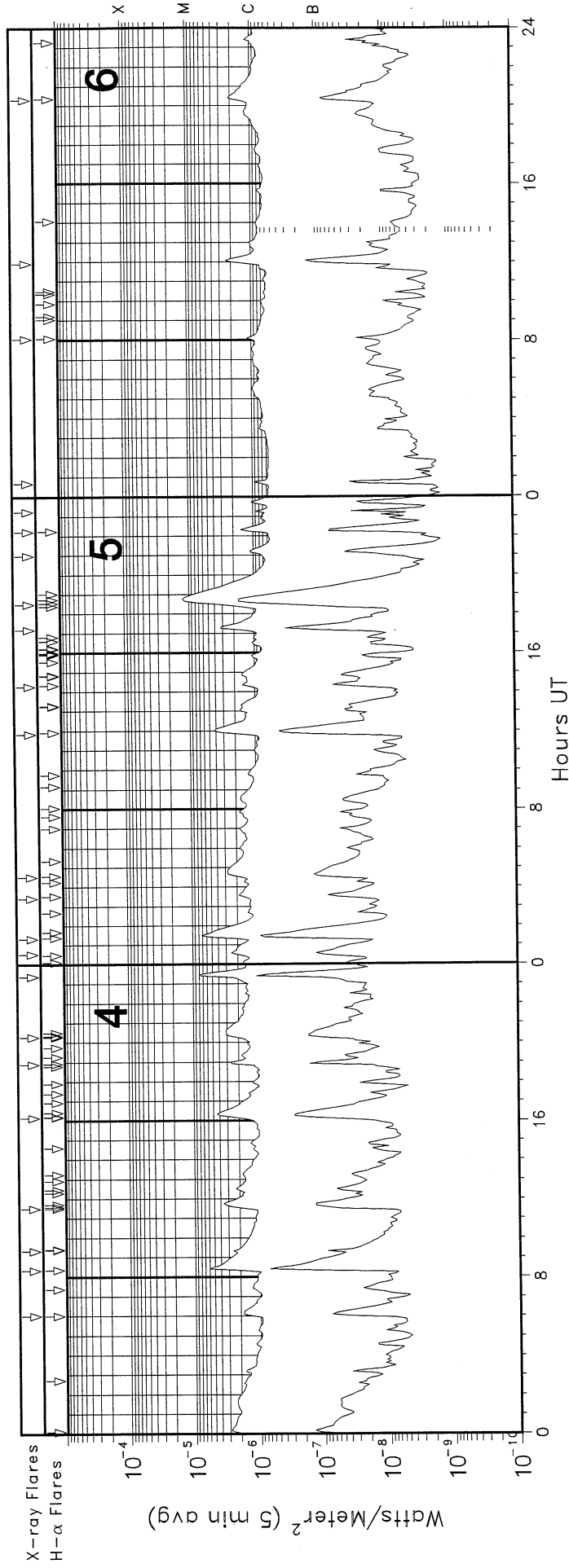
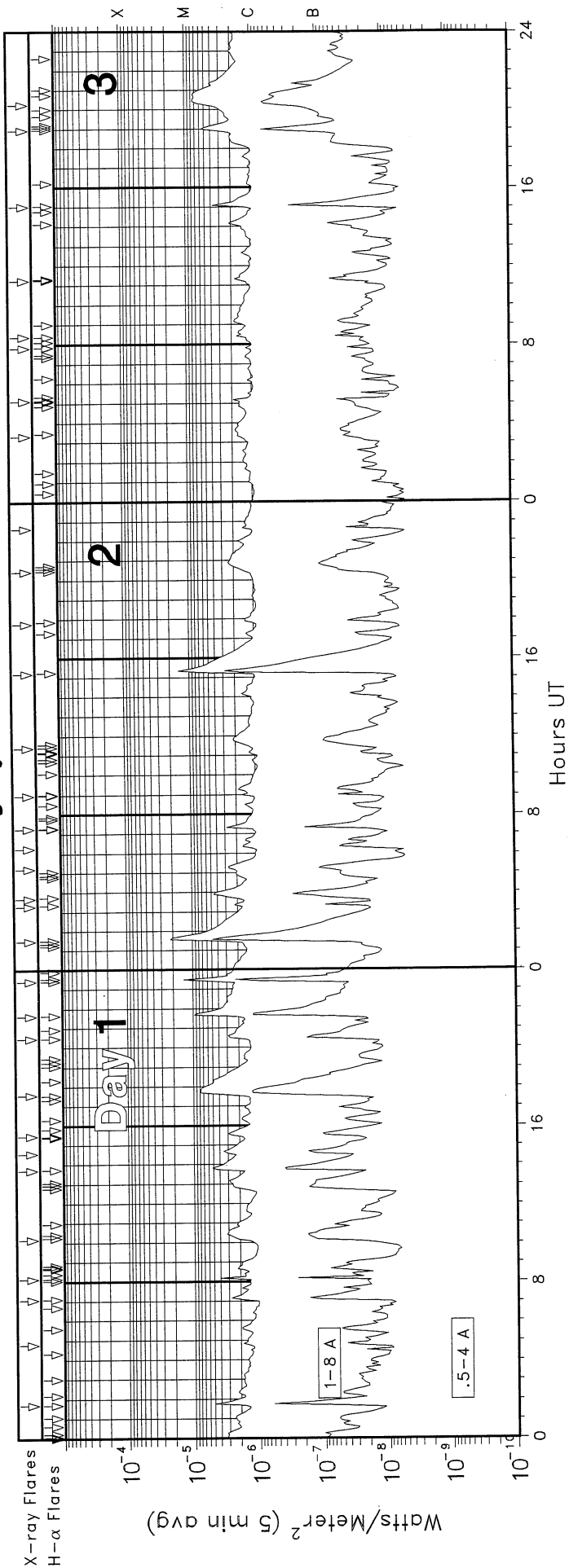
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
30	8800	SVTO	4 S/F	1516.0	1519.0	4.0	47.0			QL=4 ST=2 TYP=3	
	4995	SVTO	4 S/F	1516.0	1519.0	4.0	67.0			QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1516.0	1519.0	10.0	83.0			QL=4 ST=2 TYP=3	
	2695	SGMR	4 S/F	1517.0	1519.0	9.0	56.0			QL=4 ST=2 TYP=3	
	1415	SVTO	8 S	1517.0	1519.0	2.0	30.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1518.0	1519.0	8.0	47.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1518.0	1519.0	2.0	31.0			QL=4 ST=2 TYP=3	
	410	SGMR	4 S/F	1518.0	1518.0	8.0	190.0			QL=4 ST=2 TYP=3	
	245	SGMR	49 GB	1518.0	1519.0	8.0	1200.0			QL=4 ST=2 TYP=6	
	245	SVTO	48 C	1518.0	1523.0	6.0	2000.0			QL=2 ST=2 TYP=8	
	410	SVTO	8 S	1518.0	1518.0	2.0	190.0			QL=4 ST=2 TYP=3	
	610	SGMR	4 S/F	1519.0	1519.0	7.0	30.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	1519.0	1519.0	7.0	37.0			QL=4 ST=2 TYP=3	
	33	UPIC	45 C	1519.5	1520.0	2.5					
	15400	SVTO	8 S	1520.0	1520.0		33.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1538.0	1539.0	2.0	61.0				QL=2 ST=2 TYP=3
	410	SVTO	8 S	1538.0	1538.0	1.0	22.0				QL=4 ST=2 TYP=3
6700	CUBA	20 GRF	1715.0	1722.0	42.0	14.0	7.0			OOL	
6700	CUBA	1 S	1915.5	1916.2	2.3	13.0	6.0			OOL	
9500	CUBA	1 S	1916.0	1916.3	0.6	21.0	10.0				
31	245	SGMR	43 NS	1131.0	1139.0	15.0	60.0			QL=4 ST=2 TYP=1	
	235	CUBA	44 NS	1300.0E		530.0D		10.0			
	280	CUBA	44 NS	1300.0E		530.0D		16.0			
	5730	IRKU	1 S	0006.5	0006.9	1.1	4.0				U
	3000	IZMI	20 GRF	0704.4	0705.6	12.2	9.0	4.5			
	245	SVTO	4 S/F	0743.0	0745.0	3.0	33.0				QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0745.0	0746.0	1.0	610.0				QL=4 ST=2 TYP=6
	204	IZMI	42 SER	0745.1	0746.3	2.0	105.0				
	204	IZMI	7 C	0806.0	0806.2	0.6	50.0				
	245	SVTO	8 S	0851.0	0852.0	2.0	90.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0851.7	0852.3	1.7	96.0				
	5730	IRKU	4 S/F	0924.0	0925.8	15.0	28.0				U
	2950	GORK	3 S	1028.2	1028.6	0.7	9.6				
	2950	GORK	29 PBI	1028.9	1028.9	31.0D	4.8				
	204	IZMI	25 R	1113.0U		47.0D		30.0			
	9500	CUBA	23 GRF	1255.0E	1255.0	101.0D	21.0				SUNRISE
	6700	CUBA	23 GRF	1305.0E	1305.0	151.0D	14.0				OOL SUNRISE
	245	SGMR	8 S	1355.0	1355.0		75.0				QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1559.0	1611.0	29.0	14.0	7.0			6L
	2800	PENT	41 F	1735.0	1830.0	84.0	22.0				
	6700	CUBA	1 S	1822.2	1823.0	1.4	20.0	10.0			OOL
	6700	CUBA	21 GRF	1828.0	1834.0	35.0	9.0	4.0			OOL
	4995	SGMR	4 S/F	1829.0	1830.0	6.0	25.0				QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1829.0	1830.0	1.0	40.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1829.0	1830.0	2.0	35.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1829.0	1830.0	5.0	76.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1829.0	1830.0	6.0	25.0				QL=4 ST=2 TYP=3
	6700	CUBA	45 C	1829.5	1830.0	2.0	31.0	7.0			OOL
9500	CUBA	2 S/F	1830.0E	1830.2	1.0D	37.0					
6700	CUBA	23 GRF	2026.0	2112.0	70.0D	14.0				OOL SUNSET	
410	SGMR	4 S/F	2243.0	2244.0	77.0	53.0				QL=4 ST=1 TYP=3	
245	LEAR	8 S	2352.0	2352.0	1.0	150.0				QL=2 ST=2 TYP=3	
410	LEAR	8 S	2352.0	2352.0		47.0				QL=2 ST=2 TYP=3	
410	PALE	8 S	2352.0	2352.0		40.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2352.0	2352.0	1.0	160.0				QL=4 ST=2 TYP=3	
5730	IRKU	1 S	2353.2	2357.6	14.6	20.0				U	

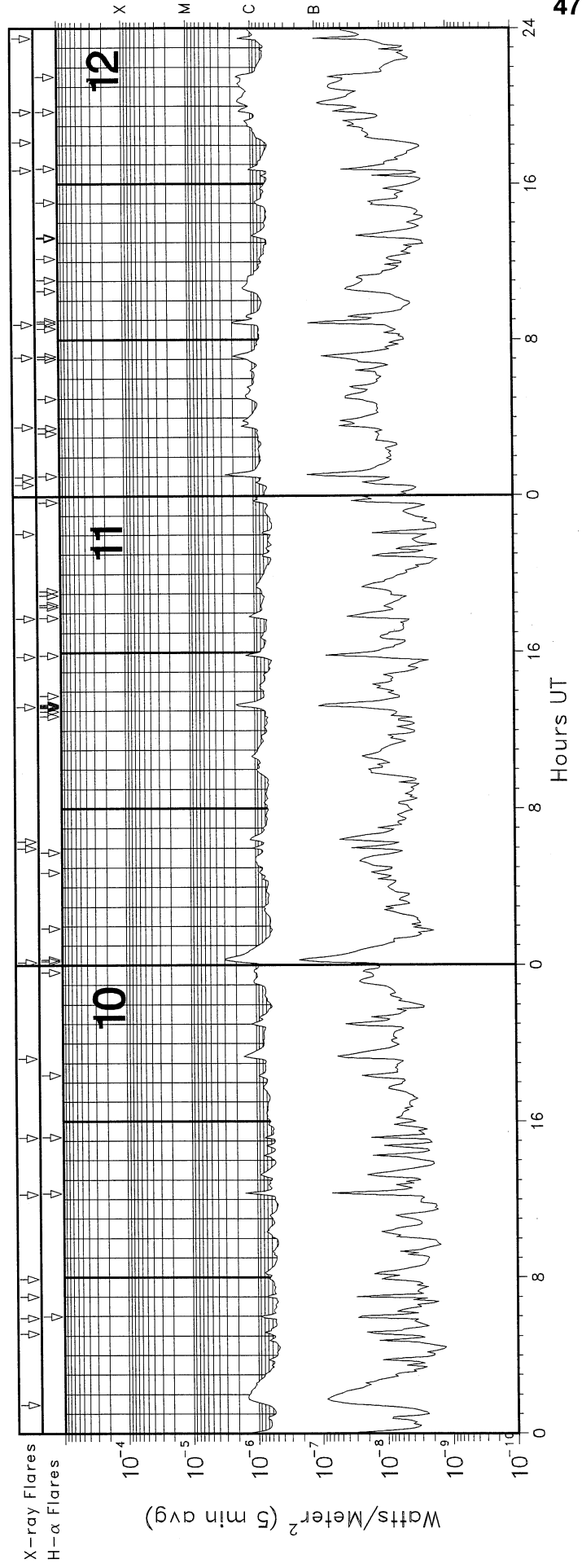
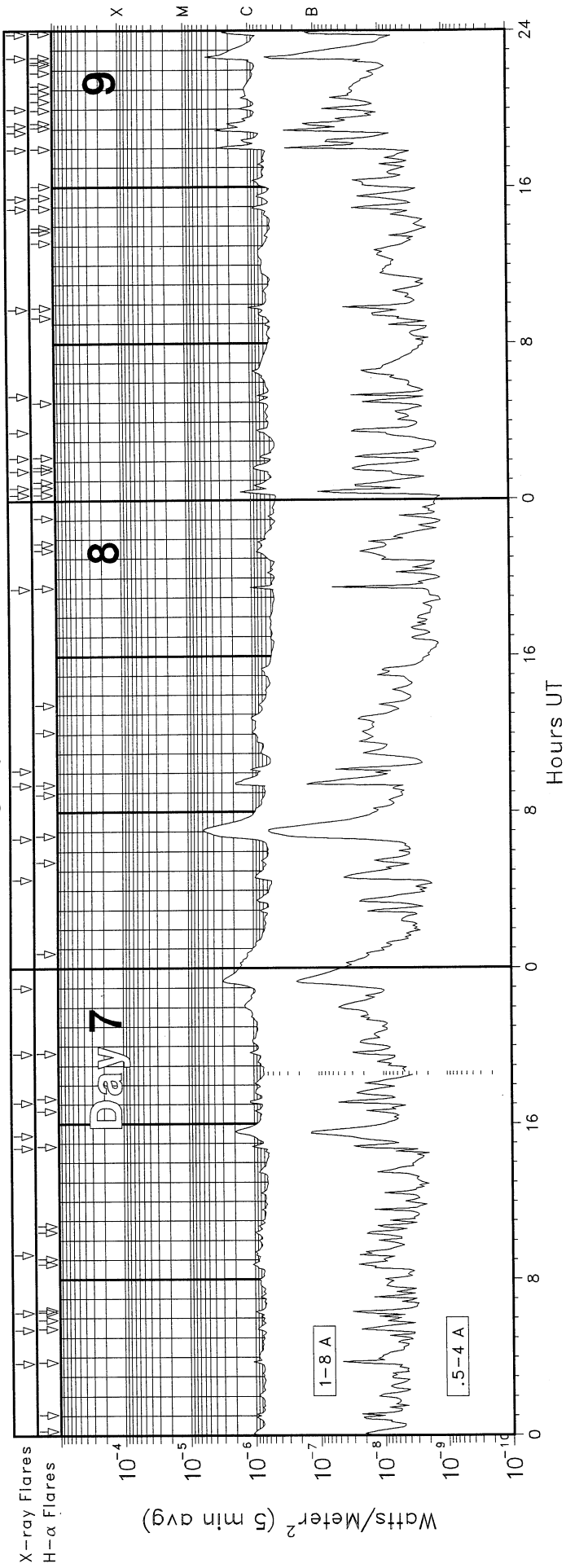
GOES X-RAY DETECTOR

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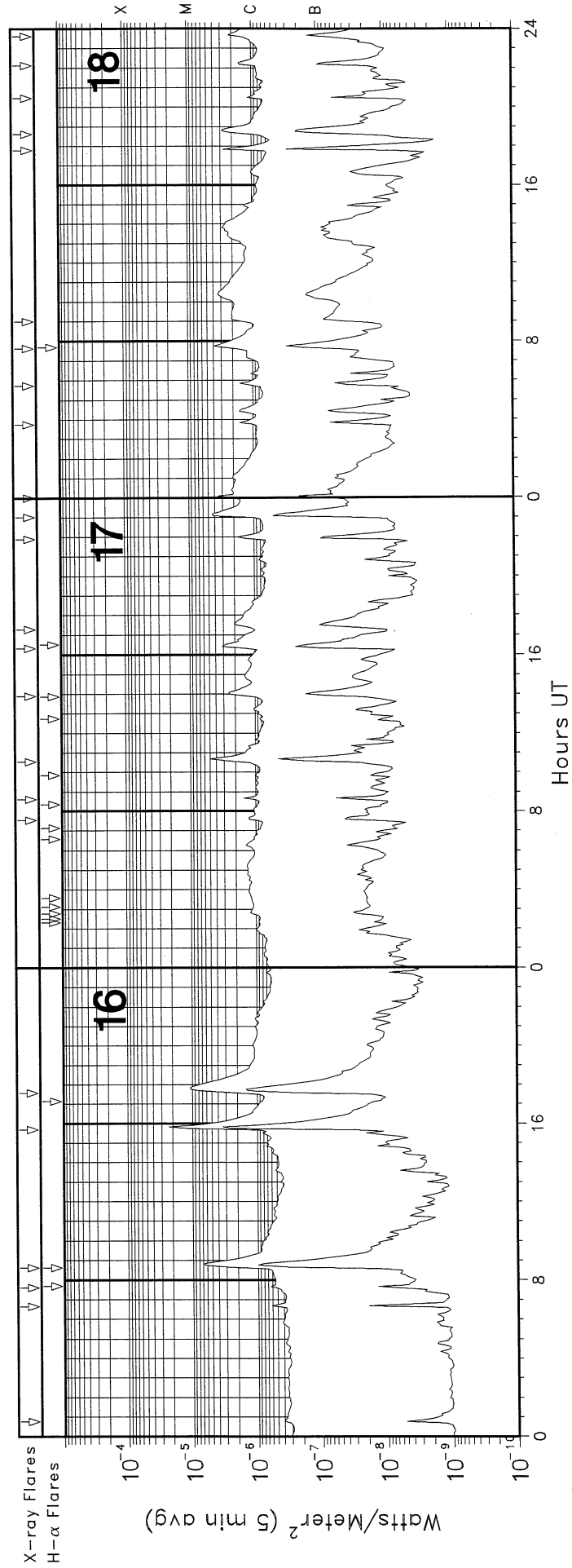
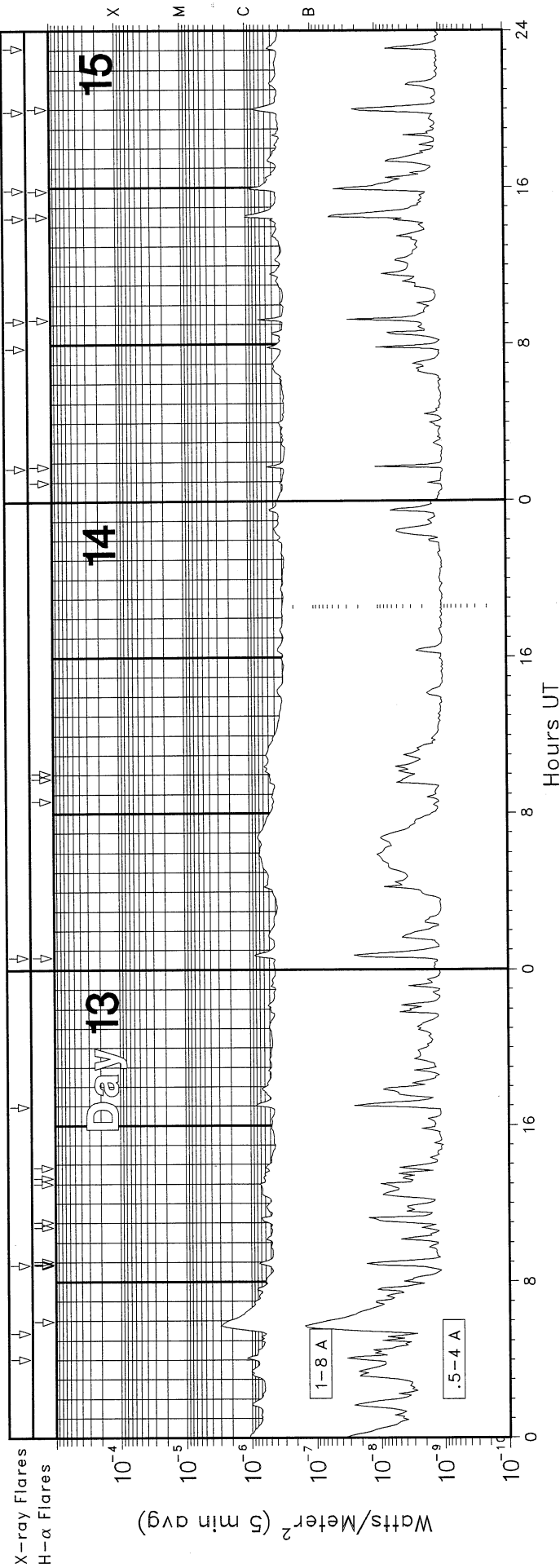
GOES X-RAY DETECTOR

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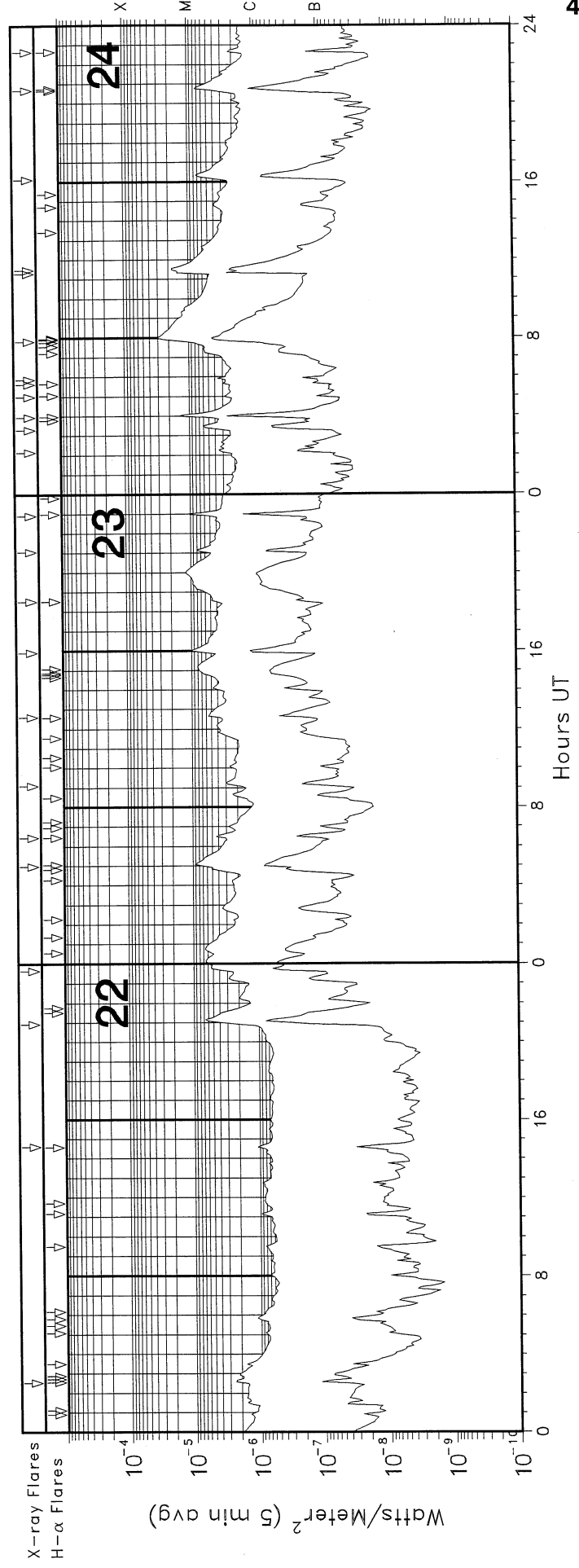
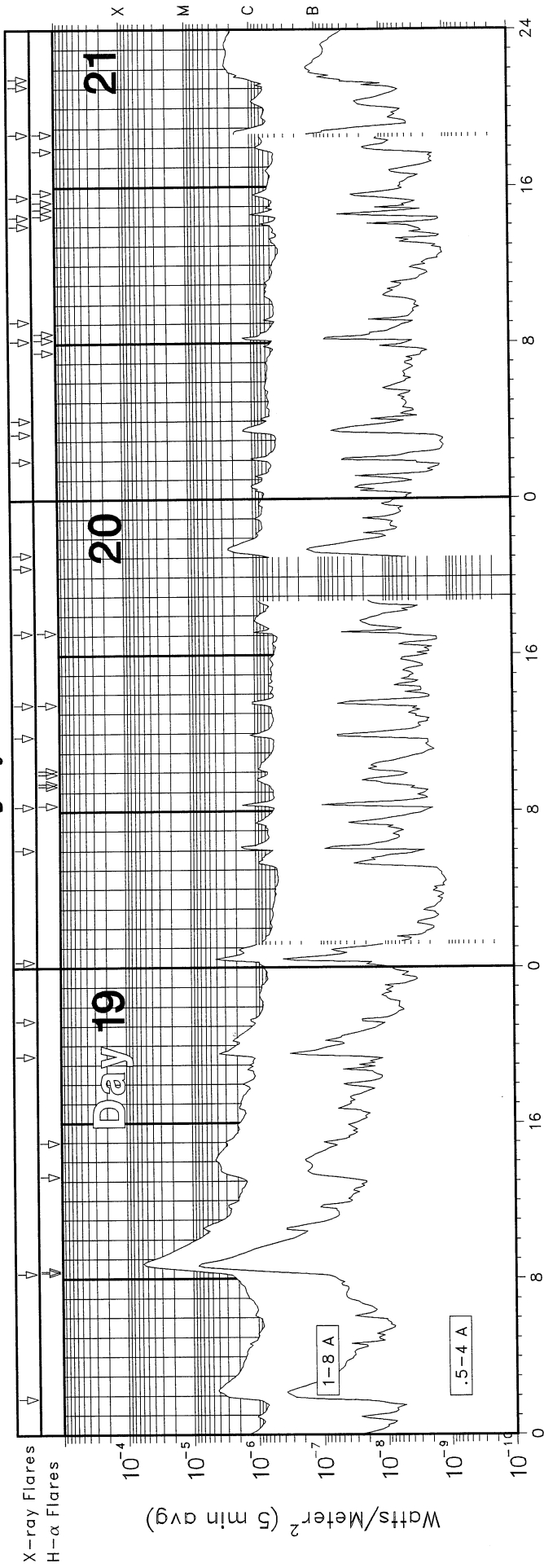
GOES X-RAY DETECTOR

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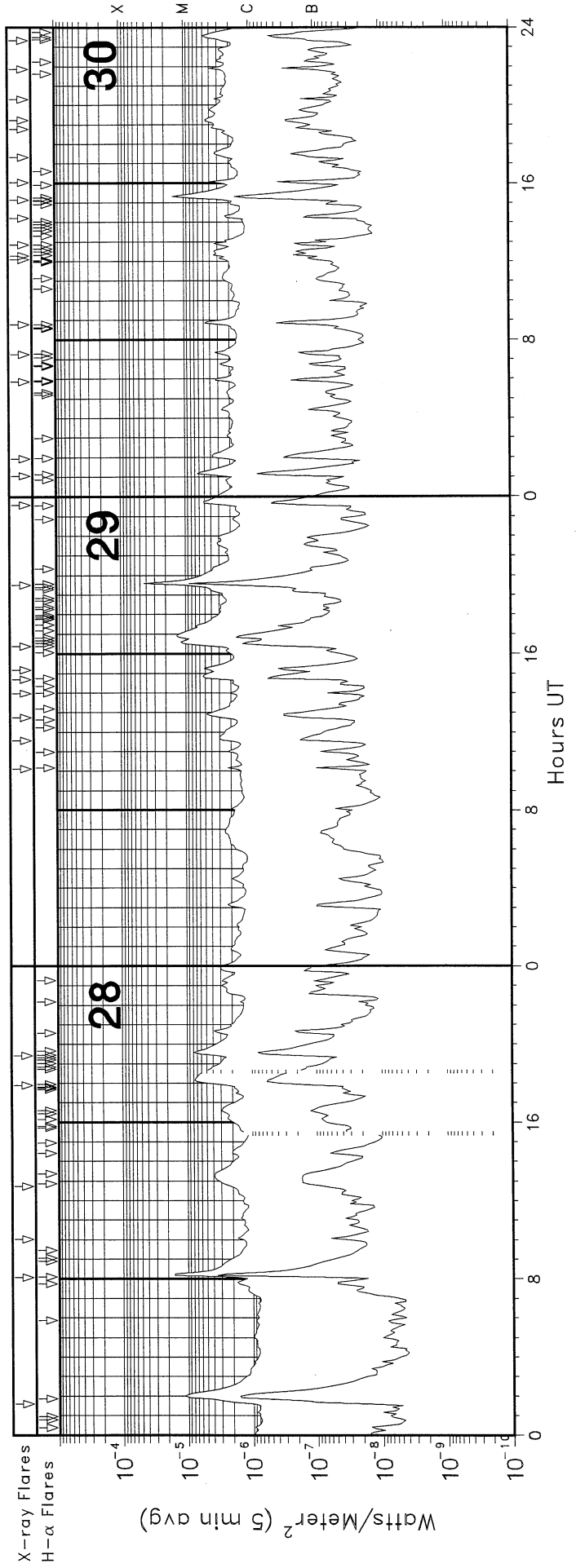
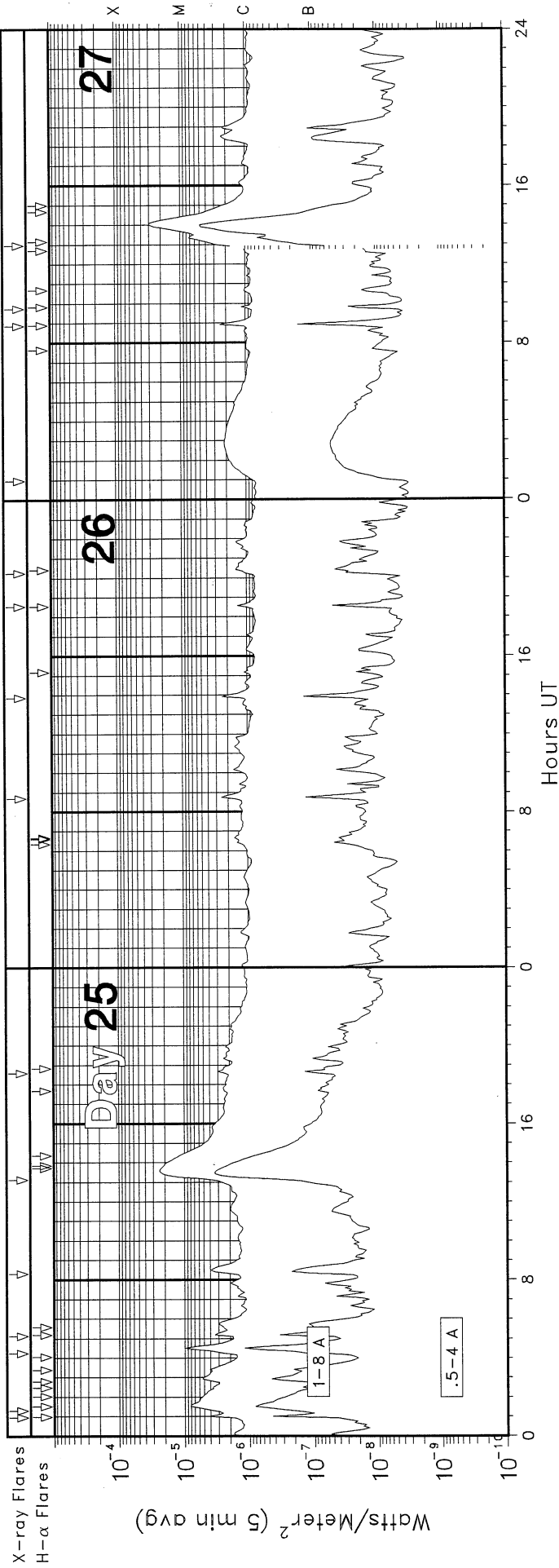
GOES X-RAY DETECTOR

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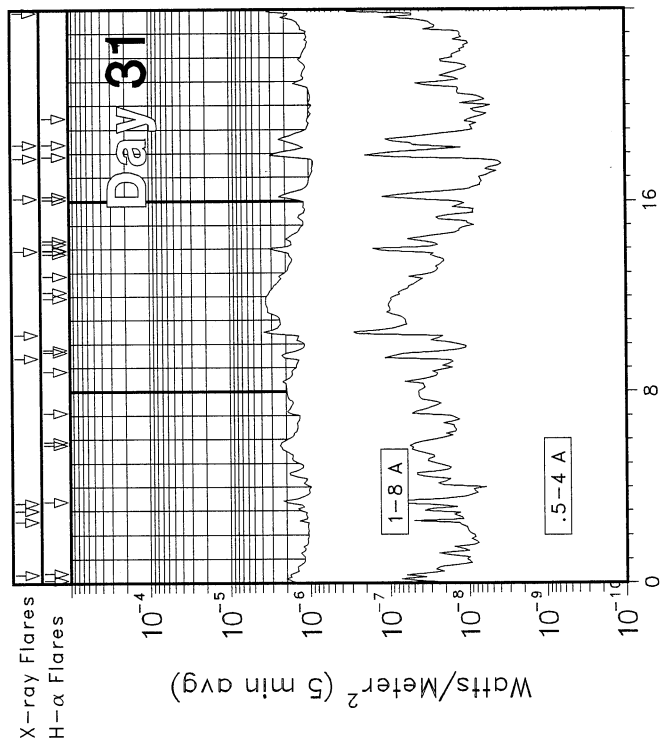
GOES X-RAY DETECTOR

July 1999



GOES X-RAY DETECTOR

July 1999



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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
01	0141	0147	0152	S15	W16	SF	C5 4	8603	2.5E-03
01	0447	0450	0455				C1 9		8.5E-04
01	0704	0709	0719	N21	W62	SN	C2 8	8596	2.1E-03
01	0808	0812	0814	N17	E66	SF	C4 8	8613	1.3E-03
01	1009	1027	1048	S26	E15	SF	C3 1	8611	6.3E-03
01	1343	1349	1400	S14	W16	1N	C5 7	8603	4.5E-03
01	1435	1441	1448				C3 5		2.5E-03
01	1529	1535	1545	N12	W34	1F	C3 0	8610	2.6E-03
01	1735	1748	1815	S25	E12	SF	C8 1	8611	1.6E-02
01	2027	2034	2047	S25	E12	SF	C3 0	8611	3.0E-03
01	2136	2143	2151	N24	W67	1F	M1 1	8598	6.7E-03
01	2324	2331	2334	S15	W27	1N	M1 7	8603	5.8E-03
02	0129	0138	0147	S27	E05	1B	M2 5	8614	1.6E-02
02	0318	0322	0327	N17	W37	SF	C2 3	8602	1.1E-03
02	0342	0357	0411	N18	E44	SF	C4 7	8613	5.9E-03
02	0513	0521	0528				C2 8	8602	2.3E-03
02	0616	0620	0632				C1 6		1.4E-03
02	0717	0722	0728	S15	W24	SN	C3 0	8603	1.5E-03
02	0858	0901	0905	S15	W25	SF	C1 7	8603	6.2E-04
02	1124	1152	1213	N15	W39	SF	C2 1	8602	5.1E-03
02	1512	1520	1530	S27	E01	SF	M1 6	8611	1.0E-02
02	1747	1759	1806	S15	W31	SF	C1 4	8603	1.4E-03
02	2027	2057	2134	S24	W03	SF	C2 3	8611	8.0E-03
02	2238	2242	2247				C1 4		7.3E-04
03	0319	0341	0401	N18	W46	SF	C1 7	8602	4.2E-03
03	0507	0510	0512	S28	E63	SF	C2 3	8615	5.8E-04
03	0749	0752	0754	S15	W53	SF	C1 3	8603	3.6E-04
03	0823	0827	0831	S15	W38	SF	C1 7	8603	7.5E-04
03	1115	1119	1125	S14	W46	SF	C1 9	8603	9.8E-04
03	1501	1506	1513	N23	W82	SF	C4 1	8598	2.1E-03
03	1856	1903	1911	S26	W15	SF	C5 6	8611	4.3E-03
03	2015	2050	2059	N16	W55	1F	C7 5	8611	1.8E-02
04	0600	0617	0630	S27	W20	SF	C1 8	8611	3.0E-03
04	0820	0828	0844	S24	W25	1N	C6 4	8611	6.3E-03
04	0920	0923	0925	S27	W22	SF	C3 1	8611	7.8E-04
04	1129	1148	1159				C3 8	8614	4.9E-03
04	1609	1621	1636	S27	W26	1F	C4 5	8611	5.9E-03
04	1853	1859	1903	S24	W30	1F	C3 4		1.5E-03
04	2017	2037	2044	S24	W30	SF	C3 1	8611	4.8E-03
04	2322	2328	2335				C9 5		5.2E-03
05	0032	0035	0044	S24	W31	SF	C2 6		1.7E-03
05	0120	0131	0146	S27	W33	1F	C7 6	8617	8.1E-03
05	0326	0338	0349	N18	E27	SF	C1 8	8614	2.3E-03
05	0431	0446	0528	N18	E26	SF	C2 8	8614	8.1E-03
05	1149	1203	1218	S25	W41	SF	C4 3	8611	5.6E-03
05	1416	1423	1430	N17	E20	SF	C1 6	8614	1.2E-03
05	1711	1717	1729	S26	W43	SF	C3 3	8611	2.9E-03
05	1830	1848	1906	S25	W43	1F	M1 2	8614	2.1E-02
05	2059	2112	2123				C1 1		1.3E-03
05	2213	2220	2228				C1 6		1.1E-03
05	2314	2318	2320				C1 0		3.1E-04
06	0041	0044	0047				C1 3		3.4E-04
06	0803	0806	0810	N18	E19	SF	C1 1	8620	4.6E-04
06	1154	1207	1217				C2 4		2.6E-03
06	2018	2026	2038	S28	W64	SF	C2 1	8611	2.3E-03
07	0341	0345	0347	S25	W73	SF	C1 8	8611	3.9E-04
07	0524	0528	0532	S27	W64	SF	C1 0	8611	4.4E-04
07	0617	0620	0622	S26	W76	SF	C1 2		3.1E-04
07	0916	0919	0921				C1 2		2.9E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
07	1446	1450	1453	S22	W11	SF	C1 2	8626	4.4E-04
07	1524	1534	1547				C1 9		2.2E-03
07	1705	1709	1712				C1 3		5.1E-04
07	1936	1940	1946	S26	W69	SF	C1 1	8611	6.5E-04
07	2301	2321	2357				C1 9		7.1E-03
08	0434	0443	0502				B9 4		1.4E-03
08	0639	0708	0721				C5 7		1.1E-02
08	0923	0928	0936	S21	W20	SF	C2 5	8626	1.3E-03
08	1009	1013	1017				C1 2		5.0E-04
08	1927	1932	1934	N19	E70	SN	C1 3		3.7E-04
09	0018	0027	0032	S29	W19	SF	C1 5	8615	8.8E-04
09	0039	0044	0048	N19	E64	SF	C1 0		4.5E-04
09	0130	0134	0149	N23	W57	SF	B9 6	8626	9.5E-04
09	0210	0213	0216	N23	W57	SF	B8 4	8613	2.6E-04
09	0330	0335	0337				B9 4		3.3E-04
09	0520	0523	0525	N23	W59	SF	C1 1		2.3E-04
09	0946	0951	0954	N21	W67	SF	C1 1	8613	4.4E-04
09	1454	1458	1502	S22	W40	SF	B9 4	8626	4.1E-04
09	1525	1535	1539	S22	W41	SF	B7 4	8626	5.6E-04
09	1756	1803	1807	S12	E58	SF	C3 7	8627	1.5E-03
09	1850	1858	1904				C3 5		1.9E-03
09	1911	1915	1918	N22	W67	SF	C2 4	8629	8.8E-04
09	2000	2003	2005	N22	W68	SF	C1 6	8629	4.2E-04
09	2236	2239	2244	N22	W69	SF	C6 9	8629	2.0E-03
09	2349	2354	2359	S13	E55	1N	C3 1		1.3E-03
10	0128	0155	0230				C1 4		4.6E-03
10	0506	0510	0512				C1 0		2.9E-04
10	0554	0559	0604	S28	W36	SF	C1 0	8615	5.2E-04
10	0700	0704	0706				B9 8		2.8E-04
10	0755	0758	0801				B7 7		2.4E-04
10	1215	1221	1224	S28	W36	SF	C1 8		6.7E-04
10	1509	1512	1517	S13	E51	SF	B8 4	8627	3.5E-04
10	1914	1922	1933				C1 5		1.5E-03
11	0009	0019	0029				C3 0	8619	3.0E-03
11	0559	0603	0606	N17	E28	SF	C1 2	8628	4.5E-04
11	0621	0629	0640				C1 2		1.2E-03
11	1314	1319	1325	S20	W52	SF	C2 2	8626	1.2E-03
11	1547	1552	1557	S20	W70	SF	C1 4	8626	7.0E-04
11	1745	1752	1803	S27	W51	SF	C1 2	8615	1.1E-03
11	2205	2209	2212				B8 6		3.2E-04
12	0036	0039	0044				B9 9		4.1E-04
12	0059	0107	0113	N18	W65	SF	C2.8	8614	1.7E-03
12	0333	0337	0341	N17	E22	SF	C1.5	8628	6.5E-04
12	0706	0714	0717	N17	E16	SF	C2.1	8632	1.2E-03
12	0848	0854	0858				C2.6	8632	1.1E-03
12	1643	1648	1653	S20	E79	SF	C1.2	8634	6.0E-04
12	1810	2134	2142				C1.9		1.5E-02
12	1942	1947	1956	N19	E12	SF	C1.5	8628	1.2E-03
12	2329	2332	2334				C2.1		4.6E-04
13	0402	0405	0413				C1.2		7.4E-04
13	0522	0546	0609				C2.9		5.4E-03
13	0851	0855	0903				B7.8		5.1E-04
13	1657	1703	1712				B9.0		6.7E-04
14	0038	0048	0054	S17	E58	1F	B8.8	8634	7.1E-04
15	0142	0147	0151	S20	W29	SF	B5.4	8625	2.3E-04
15	0748	0751	0756				B5.2		2.1E-04
15	0912	0916	0919	S21	E40	SF	B8.2	8634	2.4E-04

GOES SOLAR X-RAY FLARES
 Preliminary Listing

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 Jul 99

July 1999

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
15	1426	1434	1442	N43	W58	SF	C1.1		8.1E-04
15	1551	1558	1605	S17	W34	SF	C1.0	8625	6.1E-04
15	1953	2001	2008	S11	W19	SF	B8.1	8627	5.9E-04
15	2305	2308	2311				B5.0		1.7E-04
16	0046	0049	0051				B4.9		1.3E-04
16	0639	0643	0645				B7.5		2.2E-04
16	0737	0740	0742				B7.5		1.9E-04
16	0838	0849	0859	N44	W68	SF	C7.6	8635	6.3E-03
16	1542	1550	1554	N43	W71	SN	M3.1		1.1E-02
16	1734	1750	1809	S31	W13	SF	M1.1		1.6E-02
17	0732	0741	0747				C1.3		1.0E-03
17	0837	0840	0844				C1.7		5.9E-04
17	1032	1042	1047				C5.5		3.1E-03
17	1354	1404	1415				C2.7	8635	2.7E-03
17	1620	1625	1637	N42	W85	SF	C3.4	8635	2.6E-03
17	1718	1734	1753				C2.0		3.4E-03
17	2154	2202	2206				C1.9		1.1E-03
17	2301	2309	2324				C4.9		4.7E-03
18	0001	0005	0008				C4.3		1.5E-03
18	0346	0352	0358				C1.6		9.9E-04
18	0545	0549	0555				C1.7		8.0E-04
18	0739	0746	0757				C4.0		3.4E-03
18	0901	1028	1058				C3.3		1.7E-02
18	1747	1752	1756	N20	E64	SF	C3.4		1.1E-03
18	1837	1851	1901				C2.9		3.2E-03
18	2028	2032	2037				C1.2		5.6E-04
18	2207	2216	2223				C1.6		1.3E-03
18	2337	2343	2350				C2.3		1.6E-03
19	0149	0215	0253				C4.2		1.3E-02
19	0816	0846	0910	N18	E59	2N	M5.8		1.1E-01
19	1927	1937	1951			SF	C3.8		4.1E-03
19	2116	2119	2122				C1.4		4.7E-04
20	0018	0026	0034	N19	E56	SF	C4.5		3.0E-03
20	0603	0609	0614				C2.1		9.6E-04
20	0816	0822	0826				C1.7		7.4E-04
20	1150	1154	1200			SF	C1.3		6.6E-04
20	1328	1334	1339			SF	C1.2		6.9E-04
20	1707	1711	1714			SF	C1.1		3.6E-04
20	2030	2034	2038				C1.1		4.3E-04
20	2111	2127	2144				C2.4		4.0E-03
21	0200	0204	0209				C1.2		5.5E-04
21	0323	0333	0345				C1.4		1.5E-03
21	0405	0408	0411				B8.3		2.7E-04
21	0809	0814	0819	N19	E32	SF	C1.8	8636	7.5E-04
21	0909	0913	0916				B7.4		2.6E-04
21	1403	1406	1410				B7.6		2.8E-04
21	1430	1437	1442	S18	E69	SF	C1.0	8642	5.8E-04
21	1530	1537	1542	N19	E24	SF	B8.9	8636	5.8E-04
21	1841	1844	1848	N20	E27	SF	C2.1	8636	7.7E-04
21	2107	2112	2114				B8.5		3.1E-04
21	2131	2212	2413				C2.4		2.1E-02T
22	0232	0239	0246	N37	W39	SF	C2.5	8639	1.9E-03
22	1436	1437	1441	N20	E12	SF	C1.1	8636	3.3E-04
22	2055	2109	2125				C7.1		8.7E-03
22	2339	2447	2514	N22	E13	SF	C6.6	8636	3.2E-02
23	0459	0505	0520	N21	E14	SF	C9.3	8636	1.0E-02
23	0627	0631	0633	N36	W54	1F	C4.9		1.5E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
23	0906	0914	0929				C3.0		3.6E-03
23	1237	1243	1258				C5.9		6.5E-03
23	1554	1601	1613				M1.0	8645	9.7E-03
23	1832	2005	2046	N20	E04	2F	M1.1		6.5E-02
23	2104	2109	2115				C8.8		5.0E-03
23	2255	2300	2306	S26	E87	SF	M1.2	8644	5.8E-03
24	0209	0213	0220				C3.8		2.2E-03
24	0318	0331	0339				C6.4		6.3E-03
24	0356	0404	0408	S29	E87	1N	M1.7		8.3E-03
24	0500	0503	0506	N21	W15	SF	C3.1	8636	1.0E-03
24	0538	0541	0544	N21	W07	SF	C3.3	8636	1.0E-03
24	0552	0556	0559				C3.9		1.4E-03
24	0749	0802	0825	S28	E78	SF	M3.3	8636	5.1E-02
24	1119	1122	1128				M2.1		8.1E-03
24	1129	1133	1139				M2.0		1.1E-02
24	1607	1621	1636				C7.3		1.0E-02
24	2040	2048	2059	N19	W15	SF	C7.7	8639	7.2E-03
24	2239	2243	2248	S26	E68	SF	C2.6	8645	1.2E-03
25	0057	0103	0105	S29	E70	SN	C5.2	8645	1.7E-03
25	0118	0133	0159	N18	W18	SF	C8.5		1.6E-02
25	0414	0432	0438	S26	E58	1F	M1.0	8645	8.5E-03
25	0508	0513	0519	N20	W22	SF	C3.8	8636	2.1E-03
25	0819	0833	0845				C3.9		5.1E-03
25	1308	1338	1417	N38	W81	SF	M2.4	8639	7.5E-02
25	1836	1841	1845				C3.1		1.5E-03
26	0841	0847	0854				C2.5		1.7E-03
26	1352	1356	1404				C2.6		1.5E-03
26	1833	1836	1840	S26	E38	SF	C1.4	8645	5.5E-04
26	2016	2029	2041				C1.5	8646	1.9E-03
27	0058	0254	0451				C2.1		2.4E-02T
27	0852	0857	0902	S26	E40	SF	C2.7	8645	1.2E-03
27	0946	0950	0952				C1.4		4.0E-04
27	1258	1405	1420	N23	W50	1N	M3.0	8636	6.5E-02
28	0136	0201	0215	S15	E08	SF	M1.1		1.5E-02
28	0804	0814	0819	S15	E03	1B	M2.3		1.0E-02
28	1002	1005	1012				C1.8		9.7E-04
28	1243	1323	1337	N20	W72	SF	C2.0	8645	1.1E-02
28	1754	1812	1835	S19	E22	1N	C7.7	8645	1.5E-02
28	1925	1937	1947				C7.9	8651	8.1E-03
29	1007	1011	1014	S16	W11	SF	C2.5	8649	8.9E-04
29	1133	1142	1207				C3.0		5.6E-03
29	1245	1255	1304	S14	W12	SF	C4.9	8649	4.6E-03
29	1359	1402	1404	S16	W12	SF	C2.4	8649	6.3E-04
29	1442	1448	1507	N23	E56	1N	C5.6	8651	6.9E-03
29	1511	1514	1519	N25	E53	SN	C6.1	8651	2.4E-03
29	1622	1656	1717	S23	E08	2N	M1.3	8645	3.3E-02
29	1931	1936	1940	N25	E51	1N	M5.1	8651	1.7E-02
29	2335	2344	2357	N24	E50	1F	C5.5		5.7E-03
30	0104	0111	0123	N22	E52	SF	C6.4		5.8E-03
30	0156	0208	0218	N23	E48	SF	C3.9	8651	4.4E-03
30	0552	0600	0604	N23	E46	SF	C3.6	8651	2.2E-03
30	0716	0720	0724	N25	E46	SF	C3.9	8651	1.5E-03
30	0847	0852	0859	N25	E43	SN	C5.4	8651	3.0E-03
30	1206	1211	1214	N23	E40	SF	C3.0	8651	1.3E-03
30	1218	1224	1227	S16	W25	SF	C3.6	8649	1.8E-03
30	1251	1255	1258	N23	E41	1F	C3.8	8651	1.4E-03
30	1414	1418	1424	N25	E42	SF	C2.8	8651	1.3E-03
30	1509	1520	1526	S15	W28	1B	M1.7	8649	8.6E-03

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Jul 99

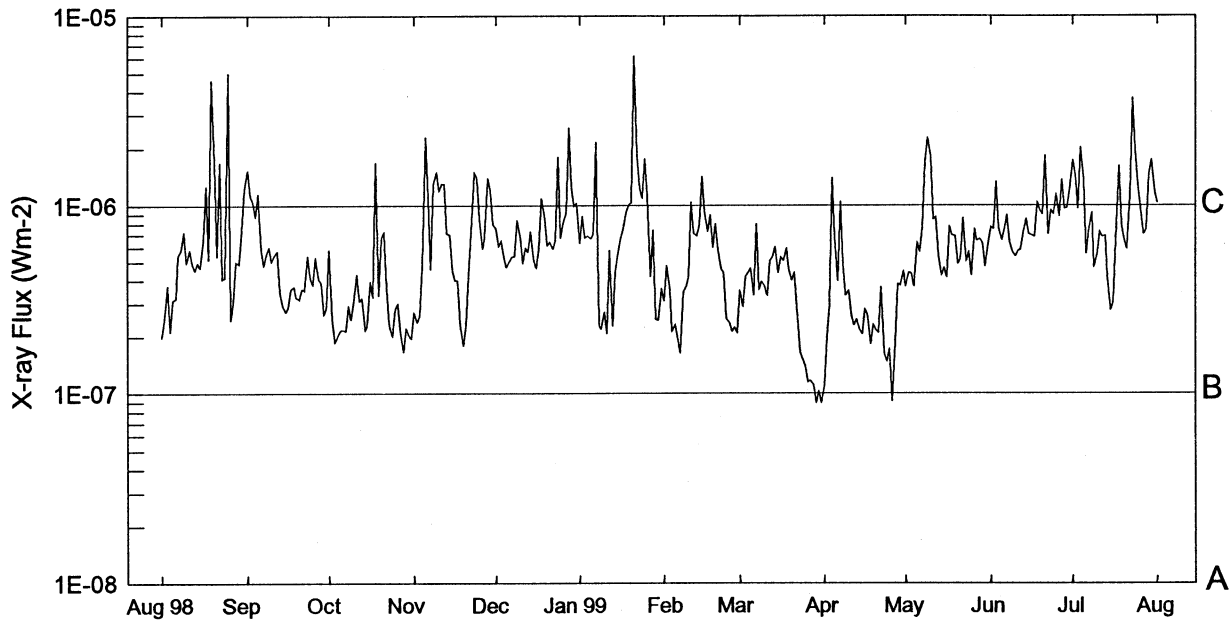
GOES SOLAR X-RAY FLARES
Preliminary Listing

July 1999

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
30	1602	1605	1607	N24	E38	1N	C6.1	8651	1.3E-03
30	1720	1735	1742				C3.5		3.8E-03
30	1847	1910	1913				C5.4		5.6E-03
30	1914	1917	1920				C5.3		1.7E-03
30	2018	2021	2023				C3.7		9.7E-04
30	2152	2155	2157	N25	E38	SN	C5.0	8651	1.2E-03
30	2319	2335	2344	N25	E38	SF	C5.1	8651	5.6E-03
31	0021	0024	0026	N25	E34	SF	C2.3	8645	5.8E-04
31	0233	0236	0239				C1.4		4.8E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
31	0301	0304	0308					C1.6	6.1E-04
31	0319	0326	0330	N21	E36	SF	C2.3	8651	1.3E-03
31	0924	0929	0938	S26	W21	SF	C2.4	8645	1.8E-03
31	1024	1029	1037				C4.6		2.5E-03
31	1356	1400	1402	N25	E29	SF	C4.1	8651	1.2E-03
31	1607	1612	1620	N25	E26	SF	C2.4	8651	1.6E-03
31	1749	1756	1807	N02	E00	1F	C3.1	8645	2.6E-03
31	1823	1837	1845	N25	E24	SF	C1.7	8651	2.6E-03
31	2353	2359	2404				C4.1		2.1E-03

Preliminary GOES Satellite Daily X-Ray Background Aug 98 - Jul 99



Day	Aug 98	Sep	Oct	Nov	Dec	Jan 99	Feb	Mar	Apr	May	Jun	Jul
1	B1.9	C1.5	B5.8	B2.7	B7.5	B6.3	B3.0	B3.5	B1.1	B3.7	B7.6	C1.7
2	B2.4	C1.1	B2.4	B2.4	B6.0	B8.7	B4.7	B2.8	B1.9	B4.3	B7.5	C1.4
3	B3.7	C1.0	B1.8	B2.6	B6.5	B6.7	B3.5	B4.1	B2.9	B4.3	C1.3	B9.5
4	B2.1	B8.7	B2.0	B4.8	B5.4	B6.8	B2.1	B4.3	C1.3	B3.7	B7.5	C2.0
5	B3.1	C1.1	B2.1	C2.3	B4.7	B6.6	B2.3	B4.6	B6.8	B6.3	B6.5	C1.3
6	B3.1	B5.8	B2.1	C1.1	B5.0	B7.0	B1.9	B3.3	B3.9	B5.6	B7.4	B5.5
7	B5.4	B4.7	B2.1	B4.6	B5.3	C2.1	B1.6	B8.0	C1.0	B7.6	B8.9	B7.4
8	B5.8	B5.4	B2.9	C1.3	B5.3	B2.3	B3.4	B3.5	B4.8	C1.6	B6.3	B9.1
9	B7.2	B6.0	B2.4	C1.5	B8.3	B2.2	B3.6	B3.9	B3.3	C2.2	B5.6	B4.6
10	B4.9	B5.0	B3.0	C1.2	B6.8	B2.7	B4.1	B3.7	B3.5	C1.8	B5.3	B5.4
11	B5.8	B5.4	B4.2	C1.3	B4.9	B2.0	C1.0	B3.3	B2.6	B8.4	B5.7	B7.2
12	B4.8	B5.7	B3.0	C1.3	B6.0	B5.7	B7.1	B5.0	B2.3	B8.7	B5.8	B6.8
13	B4.5	B3.4	B3.2	B7.1	B5.6	B2.2	B6.8	B5.2	B2.4	B5.4	B7.0	B6.8
14	B4.9	B2.9	B2.1	B7.0	B7.2	B4.4	B7.8	B6.0	B2.1	B4.2	B8.5	B4.1
15	B4.6	B2.7	B2.3	B4.5	B5.1	B5.5	C1.4	B4.3	B2.0	B4.6	B7.0	B2.7
16	B6.5	B2.8	B3.9	B4.0	B4.6	B6.6	B9.2	B5.3	B2.8	B4.1	B6.9	B3.0
17	C1.2	B3.6	B3.2	B4.0	B5.8	B7.4	B7.2	B5.0	B2.6	B7.7	B6.8	B6.5
18	B5.1	B3.7	C1.6	B2.3	C1.0	B9.2	B8.9	B5.9	B1.8	B6.9	C1.0	C1.6
19	C4.5	B3.2	B3.3	B1.8	B8.7	C1.0	B6.0	B4.6	B2.3	B6.8	B9.3	B7.9
20	C1.6	B3.1	B6.7	B2.3	B6.1	C1.0	B7.9	B3.9	B2.1	B4.8	B9.0	B6.6
21	B5.3	B3.5	B7.2	B4.2	B6.3	C6.1	B5.9	B4.4	B2.0	B5.1	C1.8	B5.8
22	C1.6	B3.5	B3.7	B7.2	B5.9	C1.8	B4.6	B2.8	B3.6	B8.5	B7.0	C1.1
23	B4.0	B5.3	B2.3	C1.5	B6.5	C1.2	B4.4	B1.6	B1.6	B5.0	B9.4	C3.6
24	B4.1	B4.1	B2.0	C1.4	C1.8	C1.0	B2.4	B1.5	B1.4	B5.6	B8.9	C1.9
25	B4.9	B3.7	B2.8	B8.4	B6.7	C1.7	B2.3	B1.4	B1.7	B4.2	C1.1	C1.3
26	B2.4	B5.3	B3.0	B5.9	B8.0	C1.1	B2.1	B1.1	A9.1	B7.5	B8.7	B9.8
27	B3.0	B4.0	B2.1	B6.8	B9.2	B4.2	B2.2	B1.1	B1.8	B6.5	C1.3	B7.0
28	B5.0	B3.8	B1.6	C1.4	C2.5	B7.4	B2.0	B1.1	B3.8	B6.6	B9.6	B7.4
29	B4.8	B2.6	B2.2	C1.2	C1.2	B2.4		A8.9	B3.7	B6.3	B9.6	C1.4
30	B7.3	B2.8	B2.0	B8.0	B9.9	B2.4		B1.0	B4.4	B4.7	C1.2	C1.7
31	C1.2		B1.9		C1.0	B3.6		A8.9		B6.3		C1.1

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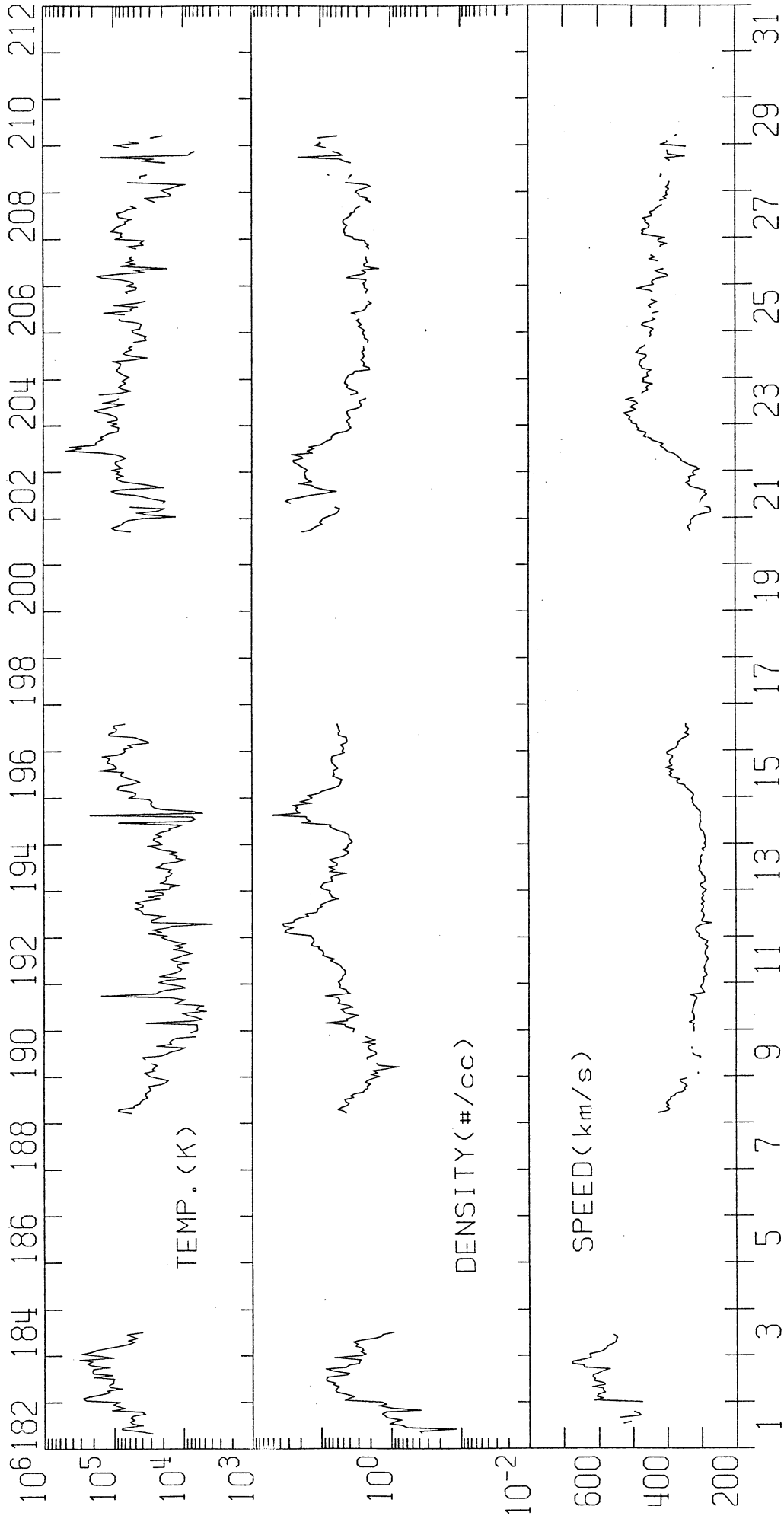
ACTIVE PROMINENCES AND FILAMENTS

JULY 1999

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP		Imp	Extent	Blue Shift	Red Shift	Obs Type	Sta	NOAA/USAF	Remarks
						Mo	Day			(.1 A)	(.1 A)			Reg#	
02	BSL	1113U	1120D	S12	E90	07	9.3	1	02	9	9	V	KHAR		
02	DSD	1150U	1200D	N15	W39	06	29.5	1	03	9	9	V	KHAR		
02	EPL	1414	1439D	N23	W90	06	25.7	3		9	9	E	SVTO	8596	
03	BSL	0845E	0849D	N24	W90	06	26.5	2	14			P	WROC		
03	EPL	0859	0905D	N28	W90	06	26.4	3		9	9	E	SVTO	8598	
03	BSL	0954	1030	N19	W90	06	26.6	1	5			P	WROC		
03	EPL	1019E	1058	N34	W90	06	26.3	2	10			P	WROC		
04	ASR	0810	1230	N29	W90	06	27.4	0	4			P	WROC		
04	DSF	0917U	2240U	N07	E32	07	6.8		13	0	0	E	LEAR		
04	BSL	0934E	1000	N22	W90	06	27.6	0	2			P	WROC		
04	DSF	1453	1513	N20	W38	07	1.7	2	10	0	0	E	RAMY		
04	DSF	1547	1614	S14	E46	07	8.1	3	11	9	9	E	RAMY	8618	
05	APR	0803E	1009D	N28	W90	06	28.4	2	6			P	WROC		
05	APR	0803E	1009D	N41	W90	06	28.1	1	7			P	WROC		
05	DSD	0950	1022	N17	E22	07	7.1	1	02	9	9	V	KHAR		
05	DSD	1105E	1117	N17	E22	07	7.1	1	03	4	9	V	KHAR		
05	BSL	1105E	1118	S18	W90	06	28.6	1	03	6	9	V	KHAR		
05	APR	1130	1150D	S08	W90	06	28.7	1	08	9	9	V	KHAR		
05	BSL	1130	1150D	S18	W90	06	28.7	1	02	9	9	V	KHAR		
05	BSL	1135	1145	S12	W90	06	28.7	1	02	9	9	V	KHAR		
06	ADF	0950E	1007D	S32	W60	07	1.9	1	04	9	9	V	KHAR		
06	BSL	1028	1100	N18	W90	06	29.6	1	02	9	9	V	KHAR		
07	BSL	0845E	0920	S15	W89	06	30.6			9	9	E	SVTO	8603	
07	BSL	0848E	0917	S15	W90	06	30.5			9	9	E	LEAR	8603	
08	BSL	1050U	1055D	S05	E90	07	15.3	1	04	9	4	V	KHAR		
08	DSF	1639U	0446U	N29	E77	07	14.7	1	41	0	0	E	SVTO		
09	AFS	0920E	1010	N20	W65	07	4.5	1	04	9	9	V	KHAR		
11	DSF	1947U	1132U	S29	E52	07	15.9		19	0	0	E	RAMY		
12	DSF	0125U	1308U	S29	E50	07	16.0	3	11	0	0	E	HOLL		
12	DSF	0636U	0726U	S33	E60	07	17.0	3	15	0	0	E	SVTO		
12	DSD	0900E	0910D	S07	E74	07	18.0	1	03	9		V	KHAR		
12	BSL	0900E	0910D	S11	E90	07	19.2	1	02	9	9	V	KHAR		
12	DSD	0955E	1008	S21	W60	07	7.9	1	02	9	9	V	KHAR		
12	DSD	1110E	1125	S21	W61	07	7.8	1	03		9	V	KHAR		
12	DSD	1110E	1128	S09	E72	07	17.9	1	02	9		V	KHAR		
13	ADF	0850E	0904	S13	E69	07	18.6	1	05	9	9	V	KHAR		
13	EPL	0850E	1025D	N61	E90	07	20.2	2	14	9	9	V	KHAR		
14	ADF	0820	0910	S09	E52	07	18.3	1	06	9	9	V	KHAR		
14	DSD	0832	0844	N22	E53	07	18.4	1	03		9	V	KHAR		
14	DSF	0907U	0007U	N37	E55	07	18.8		17	0	0	E	LEAR		
14	ADF	0920	1010D	S12	E53	07	18.4	1	03	9	9	V	KHAR		
14	BSL	1047	1140D	S24	W90	07	7.6	1	03	9	9	V	KHAR		
16	DSF	0902U	0002U	N37	W45	07	12.7		09	0	0	E	LEAR		
17	APR	0844E	0923D	N15	E90	07	24.2	1	3			P	WROC		
20	BSL	1010E	1023	S22	E90	07	27.3	1	9			P	WROC		
20	ASR	1010E	1249D	S17	E90	07	27.3	1	5			P	WROC		
20	BSL	1110E	1141D	S34	E90	07	27.6	1	6			P	WROC		
22	EPL	1420	1428	S28	W90	07	15.6	3		5	9	E	HOLL		
23	LPS	1435	1450	S23	E90	07	30.5			9	9	E	HOLL		
25	DSF	0924U	2345U	N29	W53	07	21.2		11	0	0	E	LEAR		
25	BSL	0927E	0934D	N25	W90	07	18.4	0	1			P	WROC		
25	BSL	0944E	1005D	N38	W90	07	18.1	1	6			P	WROC		
25	EPL	1102E	1200D	N21	E90	08	1.3	2	6			P	WROC		

IMP 8 SOLAR WIND PLASMA
JULY 1999

MIT/CSR IMP 8 PLASMA PARAMETERS



JUL 1999

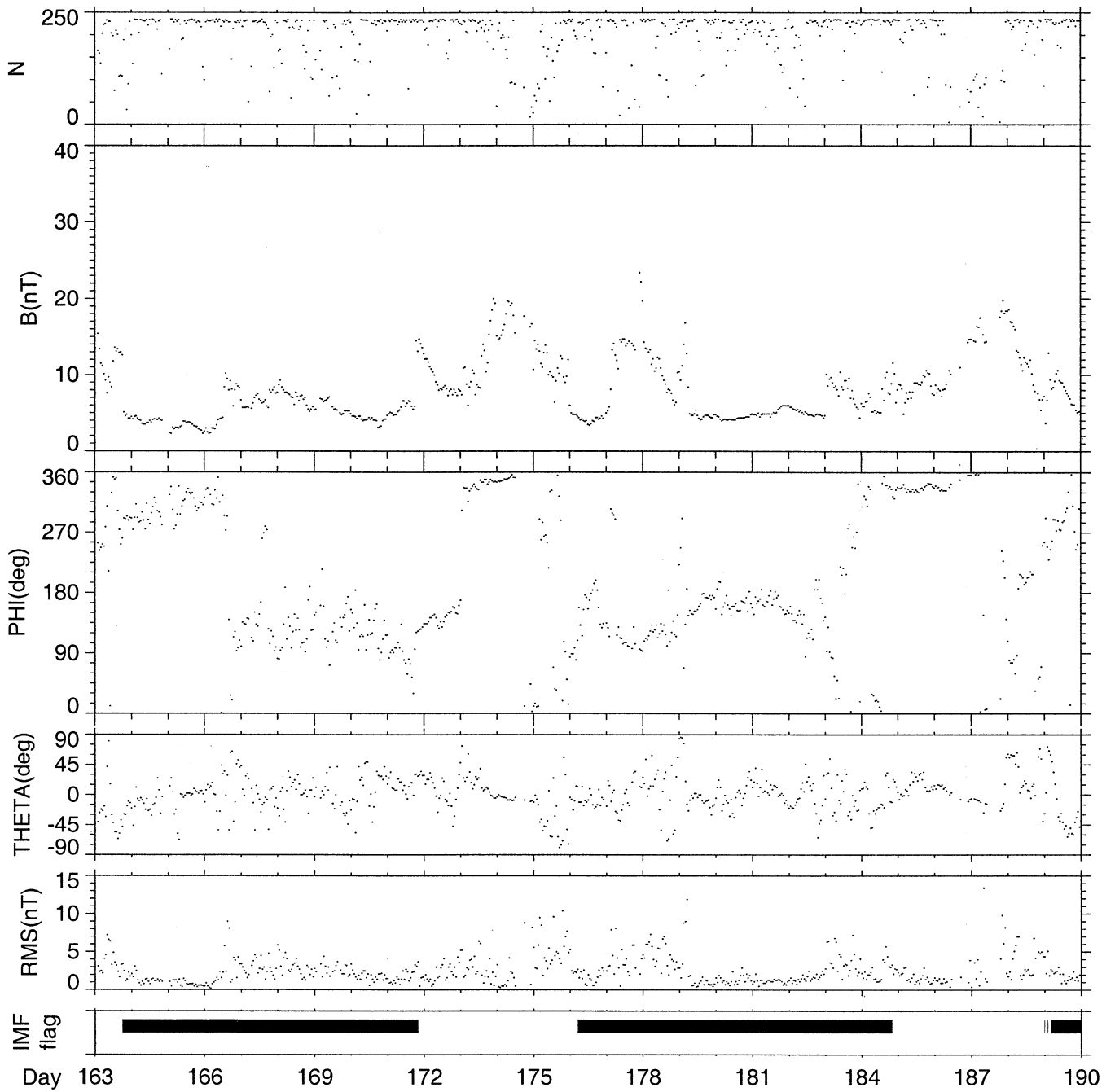
IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 163 - 190

June 12 1999 -

July 9 1999



Generation Date : Thu Aug 26 10:02:27 1999

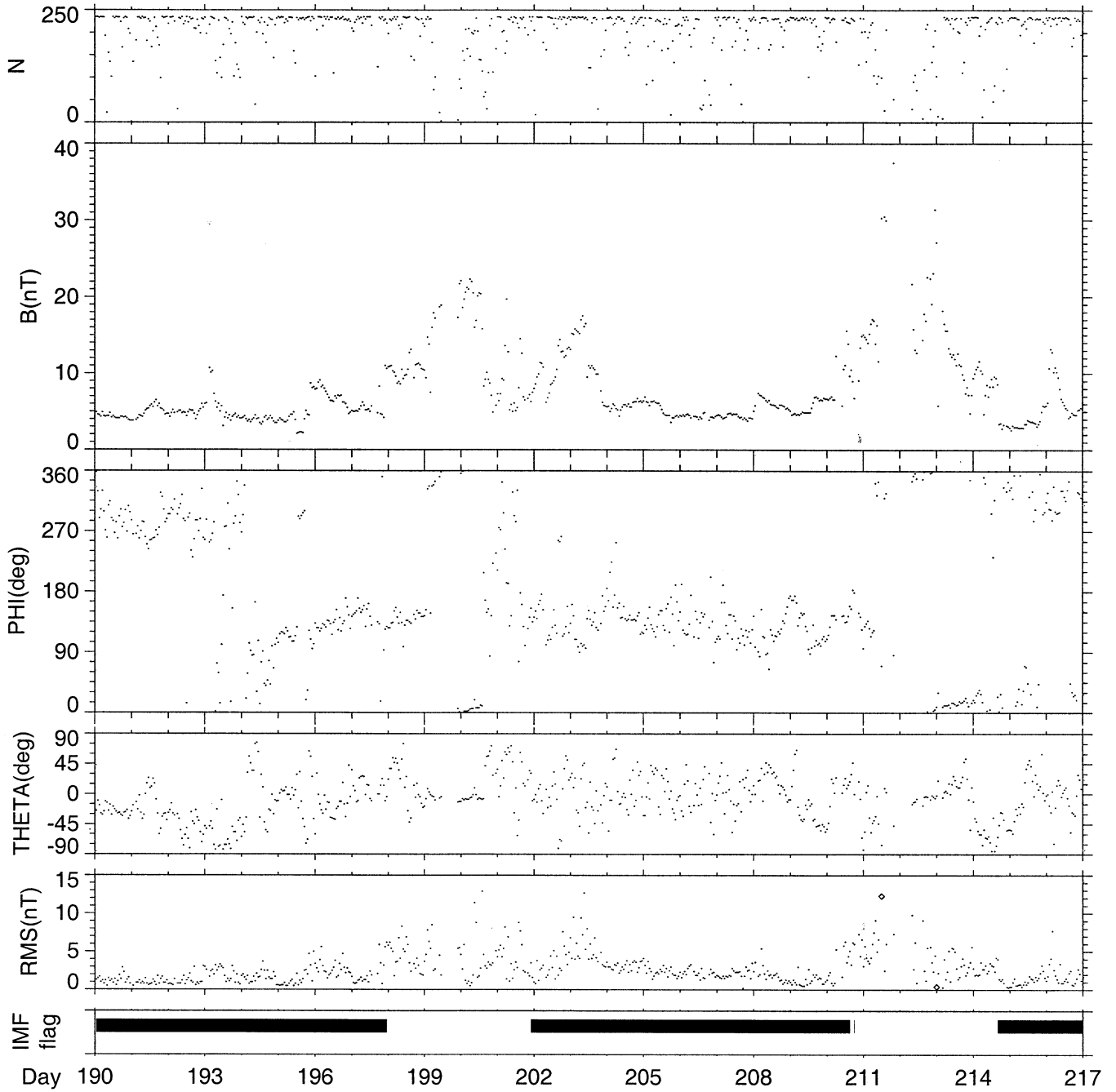
NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 190 - 217

July 9 1999 - August 5 1999



Generation Date : Wed Oct 13 10:27:49 1999

NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

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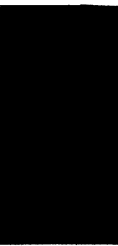
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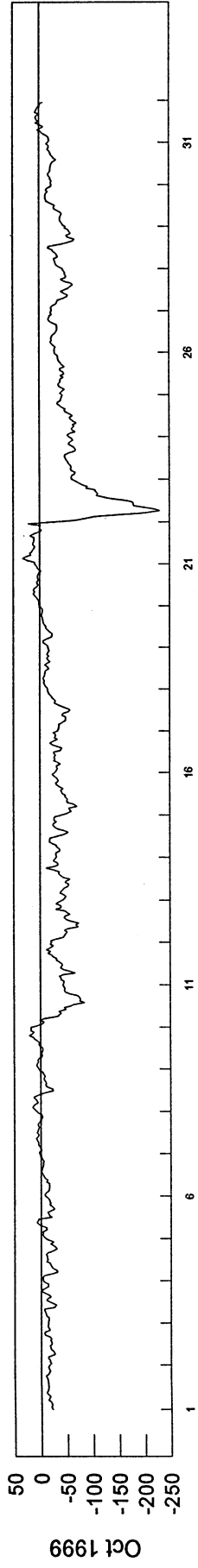
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WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY
HOURLY EQUATORIAL DST VALUES(PROVISIONAL)
OCTOBER 1999

Unit=nT, Time=number of the hour in UT day

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-21	-19	-20	-20	-18	-14	-16	-17	-13	-11	-12	-14	-14	-14	-14	-13	-13	-12	-12	-10	-14	-16	-15	-14
2	-16	-19	-17	-17	-14	-14	-26	-26	-23	-19	-18	-17	-20	-20	-18	-19	-17	-9	-7	-8	-16	-16	-13	-14
3	-14	-14	-15	-15	-11	-10	-9	-6	-7	-26	-29	-24	-16	-11	-13	-18	-16	-9	-1	-2	-9	-14	-14	-8
4	-4	-4	-3	-7	-21	-31	-30	-24	-20	-19	-17	-11	-13	-12	-12	-10	-13	-22	-30	-28	-24	-18	-23	-17
5	-10	-6	-3	-4	-3	-11	-11	-2	4	7	5	4	-20	-16	-15	-13	-20	-26	-21	-17	-18	-17	-16	-13
6	-9	-8	-11	-15	-16	-16	-16	-16	-11	-13	-9	-7	-4	-3	0	-2	-2	-4	-4	-4	-5	-3	-1	1
7	2	3	-1	0	1	4	4	5	7	8	4	4	7	5	4	3	5	5	2	0	-1	-3	-2	4
8	7	11	15	14	10	5	7	11	13	7	0	-11	-23	-22	-12	-10	-11	-10	-7	-7	-9	-7	-4	1
9	3	5	7	6	4	5	3	-2	-3	-2	-3	-4	-4	0	3	2	6	11	14	21	16	13	18	18
10	18	6	-4	-6	1	-7	-33	-35	-39	-35	-48	-46	-58	-65	-84	-76	-77	-76	-71	-57	-48	-46	-47	-45
11	-43	-45	-45	-40	-40	-36	-43	-66	-56	-44	-38	-42	-42	-37	-31	-31	-25	-22	-15	-19	-12	-18	-25	-19
12	-21	-20	-30	-44	-46	-48	-51	-47	-52	-72	-68	-74	-60	-50	-46	-48	-56	-51	-48	-30	-39	-39	-31	-34
13	-42	-46	-49	-46	-38	-39	-44	-47	-53	-54	-48	-50	-56	-44	-38	-35	-36	-28	-12	-28	-34	-33	-26	-28
14	-31	-31	-30	-31	-37	-37	-32	-31	-22	-18	-18	-19	-32	-44	-53	-48	-34	-29	-25	-26	-31	-27	-27	-28
15	-40	-50	-60	-56	-55	-70	-64	-52	-51	-52	-48	-48	-43	-42	-40	-44	-37	-33	-30	-34	-34	-32	-27	-23
16	-28	-31	-33	-32	-32	-38	-33	-27	-29	-27	-30	-27	-27	-39	-42	-33	-24	-19	-26	-33	-28	-30	-30	-26
17	-33	-35	-36	-36	-43	-43	-49	-49	-49	-43	-45	-54	-58	-51	-41	-33	-28	-30	-28	-24	-22	-19	-16	-15
18	-15	-14	-10	-9	-8	-9	-7	-8	-10	-10	-10	-12	-17	-15	-10	-14	-19	-16	-14	-17	-14	-15	-18	-16
19	-16	-15	-11	-7	-7	-12	-22	-24	-23	-19	-15	-12	-12	-10	-7	-6	-5	-5	-3	-3	-4	-5	-5	-2
20	1	1	1	2	4	6	11	12	9	12	9	5	3	5	5	2	4	4	3	1	-2	2	5	6
21	9	9	25	32	27	17	19	15	14	10	9	13	13	10	11	11	18	13	2	-3	0	0	-1	21
22	-24	-68	-92	-108	-152	-201	-231	-221	-202	-181	-180	-179	-164	-137	-121	-110	-112	-109	-106	-90	-92	-82	-75	-68
23	-62	-61	-62	-67	-68	-61	-60	-61	-59	-55	-54	-51	-50	-48	-49	-56	-67	-69	-66	-60	-55	-58	-64	-62
24	-57	-53	-58	-68	-63	-62	-66	-64	-70	-65	-60	-58	-63	-60	-50	-48	-49	-42	-38	-34	-35	-41	-42	-43
25	-44	-39	-44	-48	-42	-37	-36	-39	-39	-41	-46	-41	-47	-46	-39	-39	-48	-44	-41	-37	-36	-35	-35	-31
26	-29	-29	-29	-31	-27	-24	-21	-23	-22	-23	-26	-30	-32	-34	-34	-34	-33	-25	-19	-17	-19	-19	-23	-21
27	-24	-24	-22	-26	-32	-34	-35	-45	-52	-54	-46	-42	-48	-56	-60	-64	-61	-48	-42	-50	-51	-49	-49	-46
28	-45	-38	-33	-31	-31	-29	-29	-35	-34	-32	-27	-25	-17	-18	-42	-54	-65	-67	-54	-52	-60	-59	-55	-49
29	-50	-45	-44	-41	-39	-39	-41	-43	-42	-36	-29	-28	-30	-25	-15	-13	-12	-12	-12	-13	-16	-13	-16	-22
30	-24	-22	-23	-21	-21	-18	-17	-20	-21	-21	-21	-22	-23	-26	-32	-28	-26	-22	-21	-19	-16	-18	-18	-14
31	-17	-19	-18	-18	-14	-8	-3	3	-2	-8	0	6	2	5	6	5	1	7	5	4	2	-1	-1	-8



666130

FLARE INDEX

Kleczek (1952) first introduced the quantity " $Q = i \times t$ " to quantify the daily flare activity over 24 hours per day. He assumed that this relationship gives roughly the total energy emitted by the flares. In this relation, "i" represents the intensity scale of importance and "t" the duration (in minutes) of the flare. Some reviews of flare activity using Kleczek's method are given for each day from 1936 to 1986 by Kleczek (1952), Knoska and Letfus (unpublished), Knoska and Petrasek (1984), Atac (1987) and Atac and Ozguc (1986-1995). The daily flare index of the 22. Solar Cycle was determined by using the final grouped solar flares which are compiled by NGDC (National Geophysical Data Center). It is calculated for each flare using the formula:

$$Q = (i \times t)$$

where "i" is the importance coefficient of the flare as shown in Table 1, and "t" is the duration of the flare in minutes.

Table 1

Importance	i	Importance	i
SF,SN,SB	0.5	2B	2.5
1F,1N	1.0	3N,3F,4F	3.0
1B	1.5	3B,4N	3.5
2F,2N	2.0	4B	4.0

To obtain final daily values, the daily sums of the index for the northern and southern hemispheres and for the total surface are divided by the total time of observation of that day calculated from Solar-Geophysical Data, Comprehensive Reports, Solar Flare tables.

The 1996-1998 flare index data are produced by: Dr. Tamer Atac and Dr. Atila Ozguc, Bogazici University, Kandilli Observatory and Earthquake Research Institute, Cengelkoy-81220 Istanbul, Turkey, e-mail: atac@boun.edu.tr and ozguc@boun.edu.tr, fax: 90-216-3321711 phone: 90-216-3080514

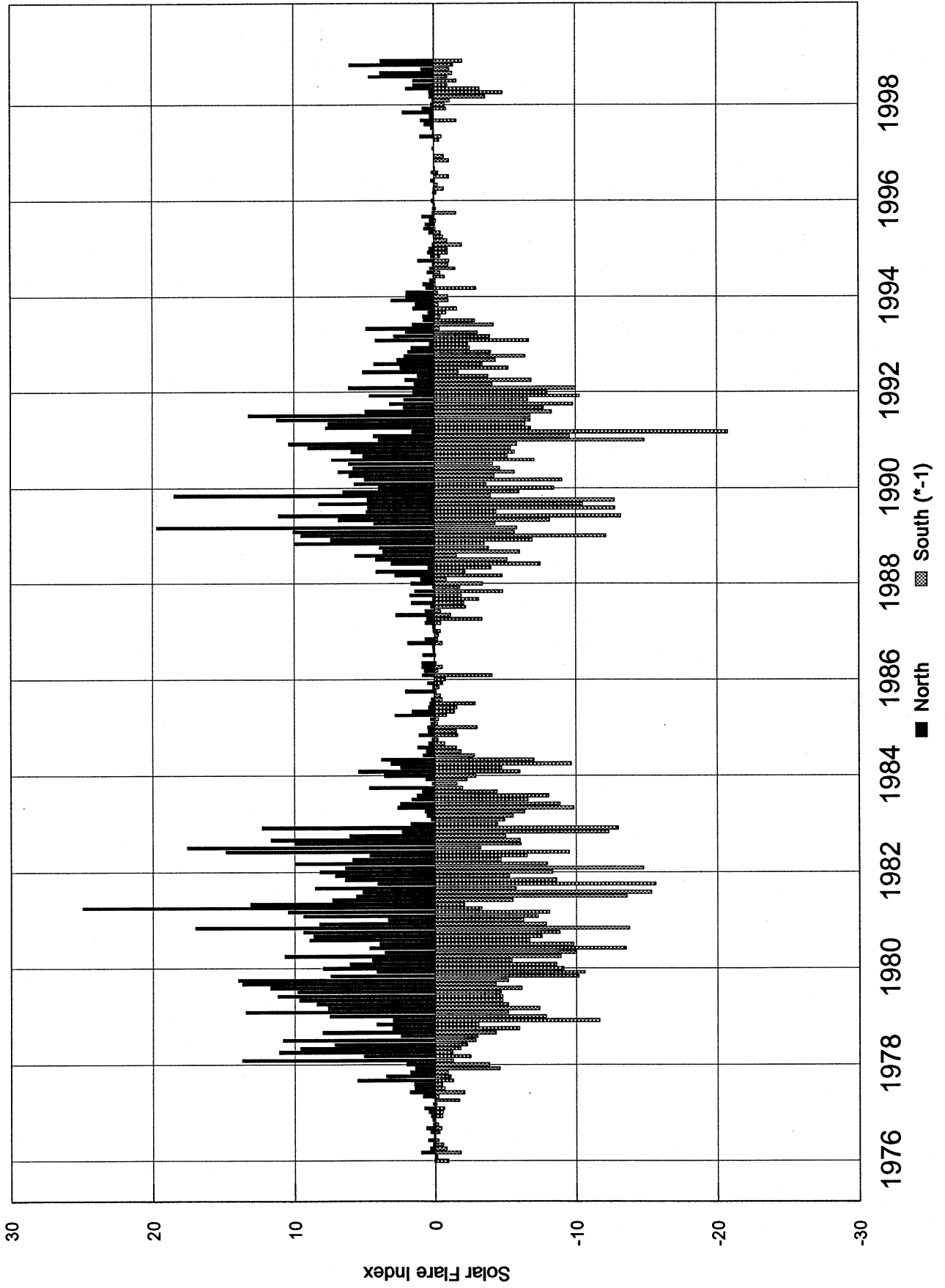
REFERENCES

- Atac, T.: 1987, **Astrophys. Space Sci.** **135**, 201.
 Kleczek, J.: 1952, **Publ. Inst. Centr. Astron.**, No. 22, Prague.
 Knoska, S. and Petrasek, J.: 1984, **Contr. Astron. Obs. Skalnaté Pleso** **12**, 165.

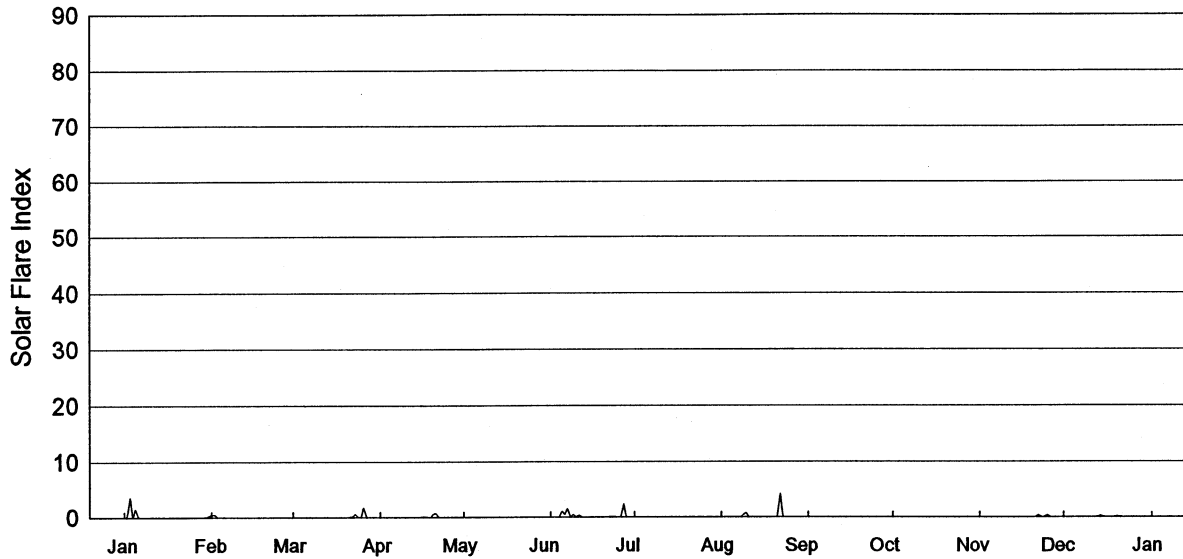
ACKNOWLEDGMENTS

The authors would like to thank to H.E.Coffey and E.H. Erwin, WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, Broadway 325, Boulder, CO, who made available the grouped flare lists. A digital version of these data is available at www.ngdc.noaa.gov/stp. Click on Solar and Upper Atmosphere, then on Get Data, and scroll down to Solar_Flares.

Monthly Mean Flare Index Jan 1976 - Dec 1998

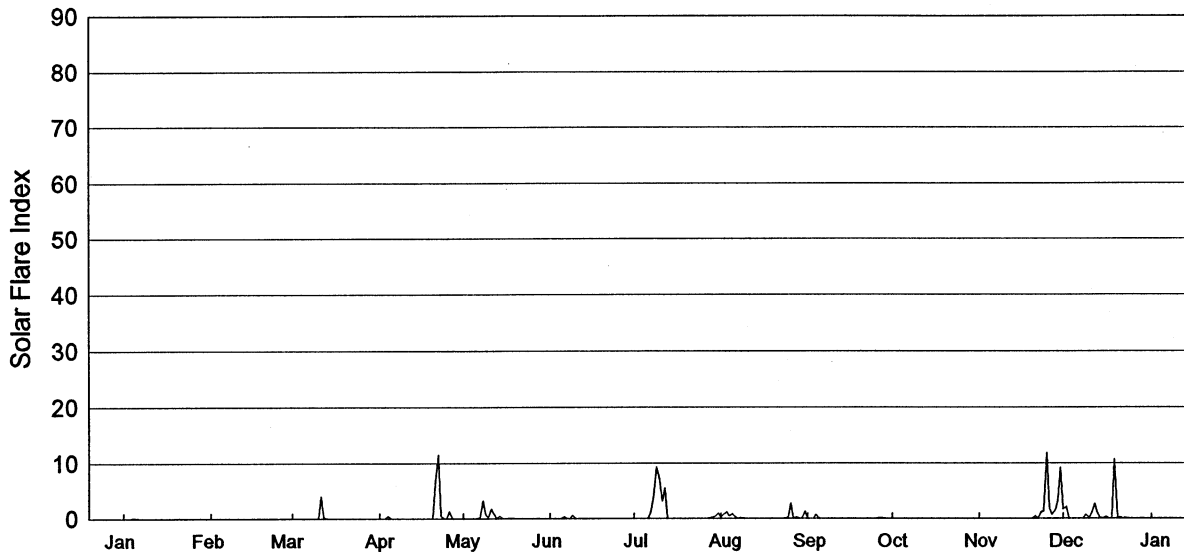


Flare Index of Solar Activity Northern Hemisphere 1996



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	1.55	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00
8	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
20	0.00	0.00	0.00	0.66	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.23
21	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.15	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.41	0.00
23	0.00	0.00	0.64	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00
26	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.18	0.04	0.08	0.06	0.00	0.23	0.00	0.18	0.00	0.00	0.03	0.02

Flare Index of Solar Activity Southern Hemisphere 1996

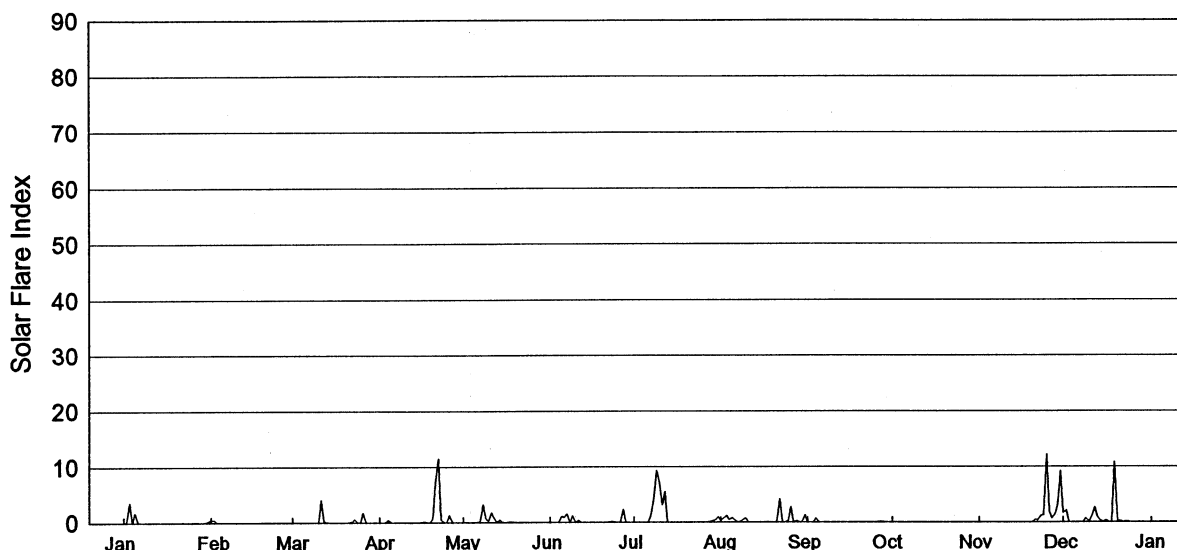


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	1.74
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	2.08
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.48	0.00	0.00	0.11	0.54	0.77	0.00	0.00	0.00
5	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.36	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.23	0.00	1.36	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	3.19	0.00	3.66	0.20	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.70	0.64	9.28	0.00	0.00	0.00	0.00	0.76
10	0.00	0.00	0.00	0.00	0.30	0.00	7.44	0.00	0.00	0.00	0.00	0.20
11	0.00	0.00	4.04	0.00	1.81	0.00	3.11	0.00	0.00	0.00	0.00	0.92
12	0.00	0.00	0.30	0.00	0.90	0.00	5.50	0.00	0.00	0.00	0.00	2.69
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
14	0.00	0.00	0.11	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.15
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.71
20	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.25
22	0.00	0.00	0.00	11.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.19
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	11.75	0.00
26	0.00	0.00	0.00	1.35	0.00	0.00	0.00	2.81	0.00	0.00	1.88	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.74	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	1.59	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	3.33	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	9.13	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.99	1.30	0.00	0.00	0.00	0.00
Mean	0.01	0.00	0.14	0.68	0.25	0.04	1.04	0.29	0.03	0.00	1.05	0.68

Flare Index of Solar Activity

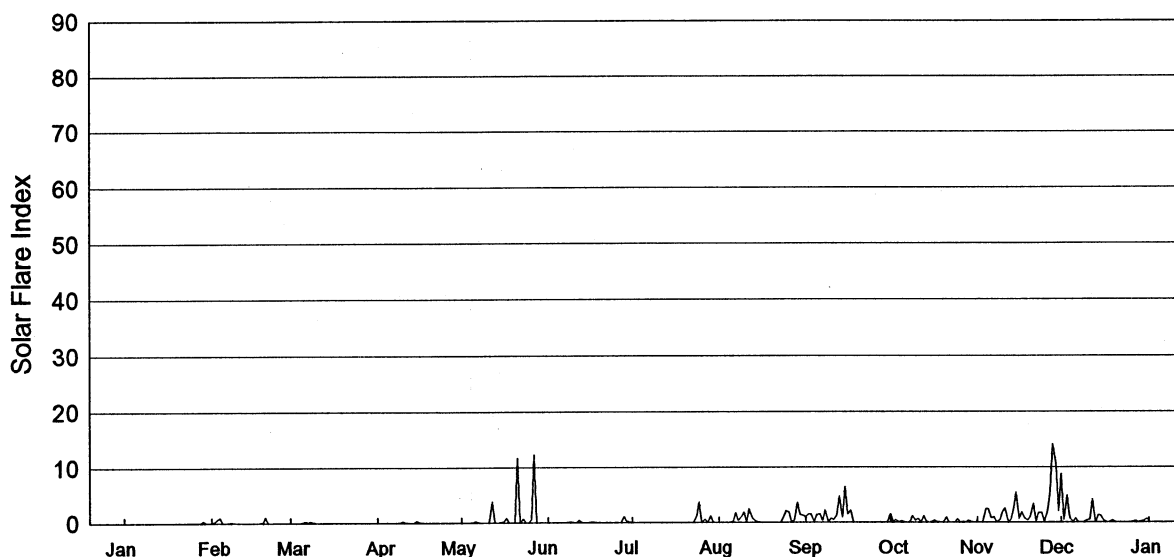
Full Disk 1996

67
Misc



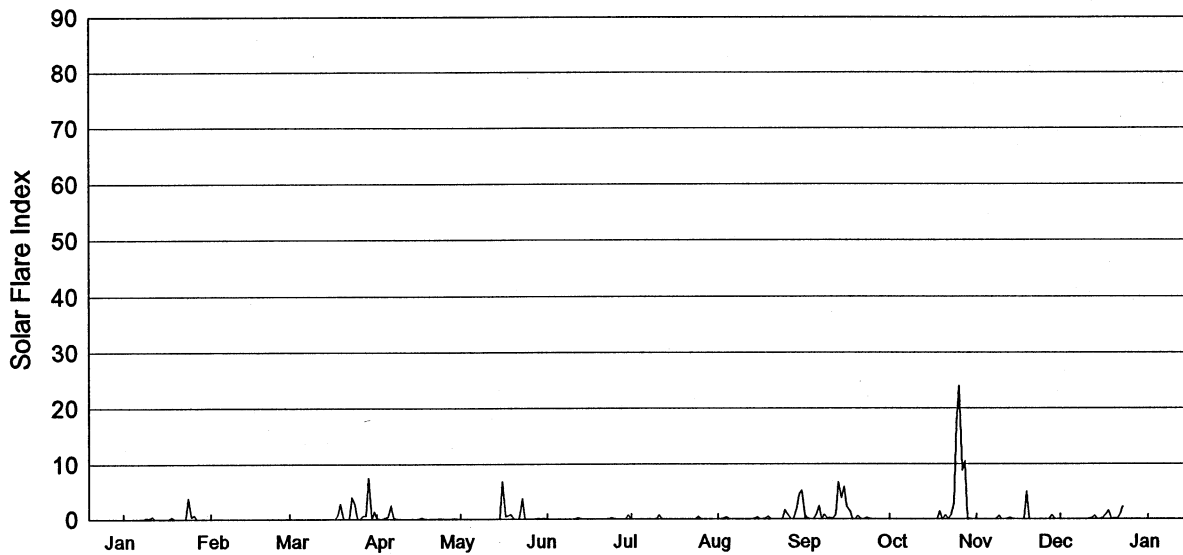
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	1.74
2	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	2.08
3	3.58	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.48	0.00	0.00	0.11	0.54	0.77	0.00	0.00	0.00
5	1.77	0.00	0.00	0.00	0.00	1.12	0.00	0.83	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.36	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.23	1.51	1.36	0.00	0.00	0.00	0.00	0.00
8	0.10	0.00	0.00	0.00	3.19	0.00	3.66	0.20	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.70	1.19	9.28	0.55	0.00	0.00	0.00	0.76
10	0.00	0.00	0.00	0.00	0.30	0.00	7.44	0.73	0.00	0.00	0.00	0.20
11	0.00	0.00	4.04	0.00	1.81	0.46	3.11	0.00	0.00	0.00	0.00	0.92
12	0.00	0.00	0.30	0.00	0.90	0.00	5.50	0.00	0.00	0.00	0.00	2.69
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
14	0.00	0.00	0.11	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.45
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
17	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.12
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
20	0.00	0.00	0.00	0.73	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.23
21	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.25
22	0.00	0.00	0.15	11.48	0.00	0.00	0.00	4.21	0.00	0.00	0.41	0.00
23	0.00	0.00	0.64	0.52	0.00	0.22	0.00	0.00	0.00	0.00	1.18	0.19
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	12.17	0.00
26	0.00	0.00	1.73	1.35	0.00	0.00	0.00	2.81	0.00	0.00	1.88	0.00
27	0.00	0.00	0.00	0.00	0.00	2.39	0.00	0.00	0.17	0.00	0.74	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	1.59	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	3.33	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	9.13	0.00
31	0.28	0.00	0.00	0.00	0.00	0.00	0.99	1.30	0.00	0.00	0.00	0.00
Mean	0.18	0.04	0.22	0.73	0.25	0.26	1.04	0.47	0.03	0.00	1.07	0.73

Flare Index of Solar Activity Northern Hemisphere 1997



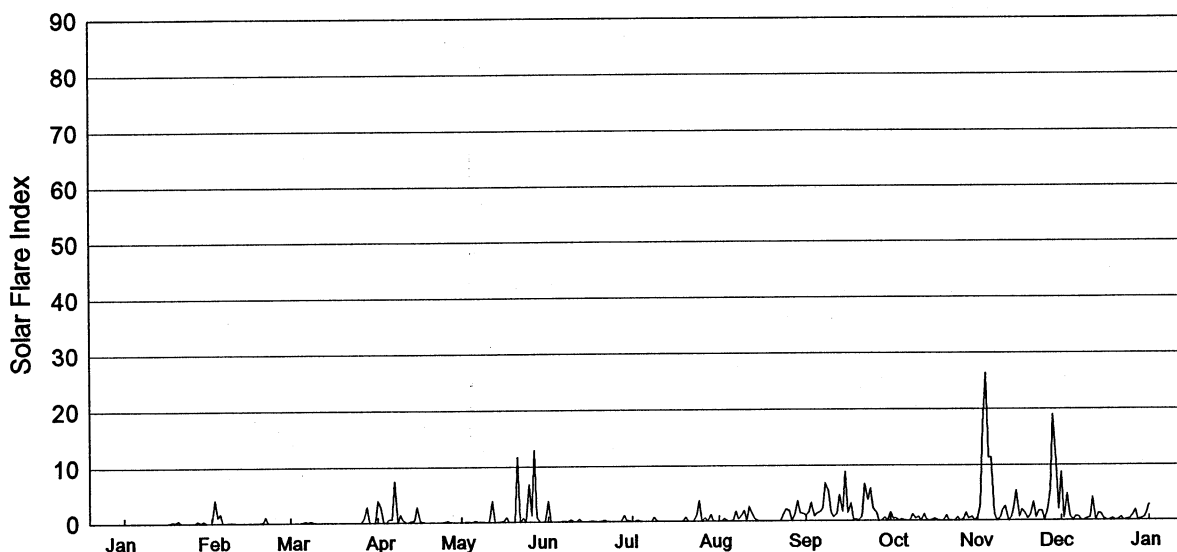
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.56	0.00	8.76
2	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.13	0.00	0.55
3	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.55	0.00	4.81
4	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	2.47	0.88
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.33	2.46	0.00
6	0.00	0.00	0.31	0.00	0.28	0.00	0.00	0.24	1.58	0.08	0.86	0.77
7	0.00	0.00	0.17	0.00	0.00	0.00	0.00	1.79	0.42	0.00	1.03	0.00
8	0.00	0.22	0.25	0.00	0.00	0.00	0.00	0.44	2.19	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.22	0.00	1.09	0.23	1.18	0.54	0.00
10	0.00	0.00	0.00	0.27	0.00	0.00	0.00	1.88	0.74	0.46	2.02	0.44
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.55	0.77	2.56	0.53
12	0.00	0.00	0.00	0.00	3.77	0.54	0.00	2.41	1.27	0.00	0.00	4.19
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	4.72	1.21	0.52	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.00	0.23	2.29	1.33
15	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	6.43	0.00	5.48	1.21
16	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	1.49	0.17	0.81	0.25
17	0.00	0.00	0.00	0.00	0.86	0.13	0.00	0.00	2.28	0.46	1.91	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00
19	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.39
20	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.96	0.00
21	0.00	0.00	0.00	0.00	11.66	0.00	0.00	0.12	0.00	0.97	3.41	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.28	0.00
23	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	1.75	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.88	0.00	0.00	1.75	0.07
25	0.00	0.00	0.00	0.00	0.00	0.00	3.71	2.15	0.00	0.66	0.21	0.00
26	0.00	0.00	0.00	0.00	0.65	0.00	0.07	1.91	0.00	0.00	2.12	0.00
27	0.00	0.00	0.00	0.00	12.28	0.00	0.67	0.00	0.00	0.15	5.53	0.27
28	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.46	0.00	0.00	14.05	0.00
29	0.42		0.00	0.00	0.00	0.31	1.26	3.64	0.00	0.42	10.71	0.15
30	0.00		0.00	0.00	0.00	0.13	0.00	1.43	0.00	0.00	2.09	0.29
31	0.00		0.00		0.00		0.00	1.38		0.00		0.60
Mean	0.01	0.13	0.02	0.02	0.98	0.08	0.22	0.69	0.96	0.30	2.23	0.82

Flare Index of Solar Activity Southern Hemisphere 1997



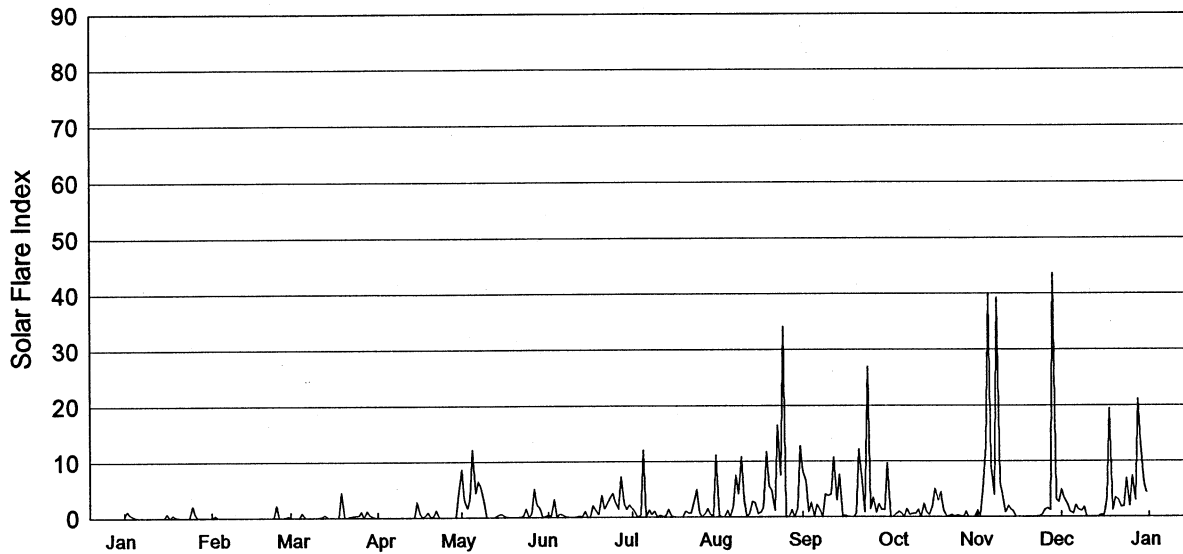
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	3.90	0.00	3.71	0.00	0.00	0.00	0.00	0.60	0.00
2	0.00	3.86	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.29	2.79	0.00
3	0.00	0.39	0.00	0.00	0.18	0.08	0.33	0.54	1.67	0.00	17.11	0.00
4	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	23.95	0.00
5	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	8.84	0.00
6	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.10	0.00	10.44	0.00
7	0.12	0.00	0.00	7.46	0.00	0.21	0.00	0.00	1.85	0.00	0.21	0.75
8	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	4.54	0.00	0.00	0.00
9	0.00	0.00	0.00	1.46	0.00	0.22	0.73	0.00	5.15	0.00	0.00	0.00
10	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.08	0.00	0.00	0.00
13	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00
15	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00
16	0.00	0.00	0.06	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.12	0.00
18	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.57	0.00
19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
20	0.47	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.89	0.00	0.00	0.22
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66	0.00	0.30	0.66
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.44	5.85	0.00	0.00	0.12
25	0.00	0.00	0.00	0.00	6.79	0.00	0.00	0.00	2.19	0.00	0.00	0.25
26	0.00	0.00	0.00	0.33	0.53	0.00	0.00	0.00	1.58	0.00	0.00	0.87
27	0.43	0.00	0.74	0.00	0.63	0.00	0.00	0.19	0.00	0.11	0.00	1.59
28	0.00	0.00	2.79	0.00	0.83	0.00	0.00	0.50	0.04	1.40	4.94	0.12
29	0.00	0.00	0.06	0.00	0.11	0.00	0.00	0.00	0.58	0.00	0.00	0.13
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.24
31	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.08	0.00	0.85
Mean	0.05	0.18	0.12	0.70	0.31	0.15	0.06	0.07	1.37	0.09	2.33	0.19

Flare Index of Solar Activity Full Disk 1997



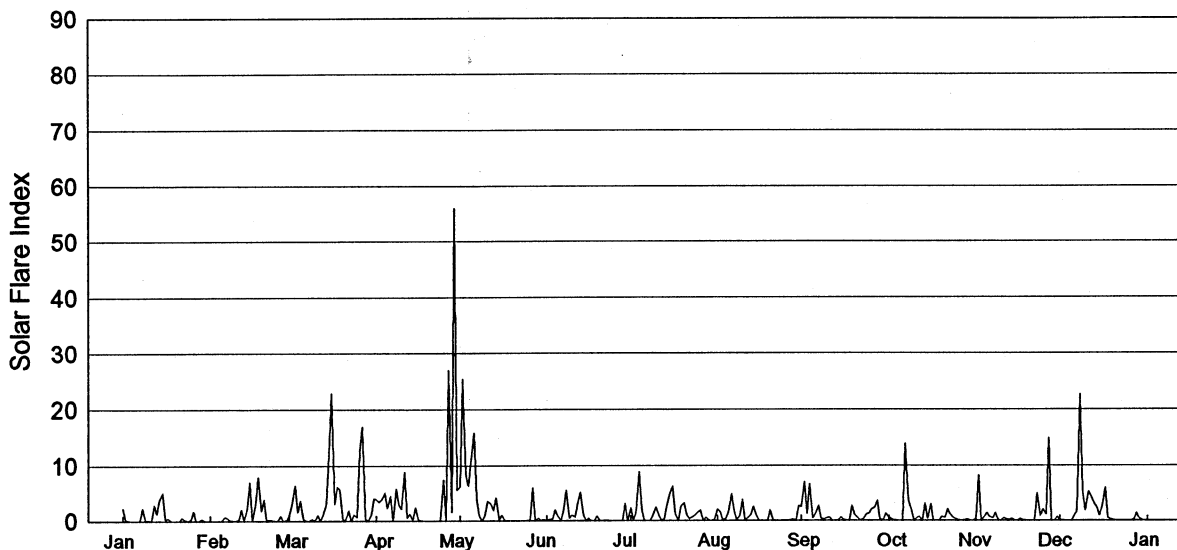
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	3.90	0.00	3.71	0.00	0.00	1.08	1.56	0.60	8.76
2	0.00	4.20	0.00	3.06	0.00	0.00	0.00	0.00	1.58	0.42	2.79	0.55
3	0.00	1.11	0.00	0.00	0.18	0.08	0.33	0.54	3.19	0.55	17.11	4.81
4	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	26.41	0.88
5	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	1.44	0.33	11.31	0.00
6	0.00	0.00	0.31	0.61	0.28	0.00	0.00	0.24	1.68	0.08	11.31	0.77
7	0.12	0.00	0.17	7.46	0.00	0.21	0.00	1.79	2.27	0.00	1.24	0.75
8	0.00	0.22	0.25	0.00	0.20	0.00	0.00	0.44	6.73	0.00	0.00	0.00
9	0.00	0.00	0.00	1.46	0.00	0.43	0.73	1.09	5.38	1.18	0.54	0.00
10	0.00	0.00	0.00	0.48	0.00	0.00	0.00	1.88	1.47	0.46	2.02	0.44
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.74	0.77	2.56	0.53
12	0.00	0.00	0.00	0.00	3.77	0.54	0.00	2.59	1.36	0.00	0.00	4.19
13	0.00	0.00	0.00	0.31	0.00	0.00	0.00	1.26	4.72	1.21	0.52	0.00
14	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.38	1.69	0.23	2.29	1.33
15	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00	8.78	0.00	5.48	1.21
16	0.00	0.00	0.06	0.32	0.20	0.00	0.00	0.00	1.49	0.17	0.81	0.25
17	0.00	0.00	0.00	0.00	0.86	0.13	0.00	0.00	3.18	0.46	2.03	0.00
18	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	1.38	0.00
19	0.13	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.37	0.39
20	0.47	1.04	0.00	0.00	0.00	0.00	0.70	0.00	0.07	0.00	0.96	0.00
21	0.00	0.00	0.00	0.00	11.66	0.33	0.00	0.12	0.89	0.97	3.41	0.22
22	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	6.66	0.00	0.58	0.66
23	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	3.85	0.00	1.75	0.00
24	0.00	0.00	0.00	0.00	0.09	0.00	1.11	1.33	5.85	0.00	1.75	0.19
25	0.00	0.00	0.00	0.00	6.79	0.00	3.71	2.15	2.19	0.66	0.21	0.25
26	0.00	0.00	0.00	0.33	1.18	0.00	0.07	1.91	1.58	0.00	2.12	0.87
27	0.43	0.00	0.74	0.00	12.92	0.00	0.67	0.19	0.00	0.26	5.53	1.86
28	0.00	0.00	2.79	0.00	0.83	1.11	0.00	0.96	0.04	1.40	18.98	0.12
29	0.42		0.06	0.00	0.11	0.31	1.26	3.64	0.58	0.42	10.71	0.27
30	0.00		0.00	0.00	0.00	0.13	0.00	1.43	0.00	0.78	2.09	0.53
31	0.00		0.00		0.12		0.00	1.38		0.08		1.45
Mean	0.06	0.30	0.14	0.72	1.29	0.23	0.28	0.76	2.33	0.39	4.56	0.99

Flare Index of Solar Activity Northern Hemisphere 1998



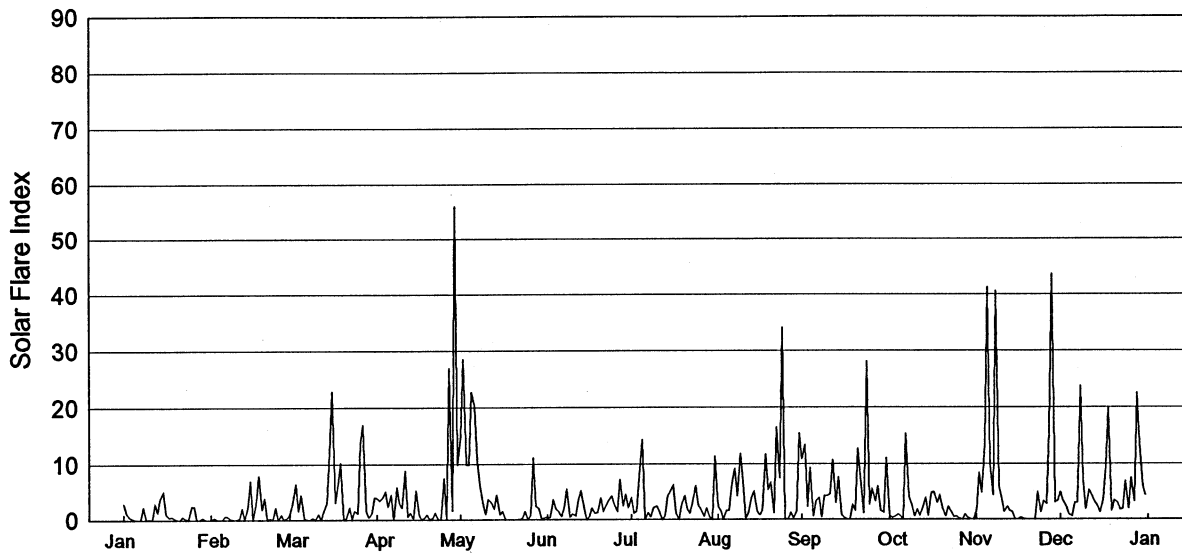
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.51	0.00	0.00	0.00	8.65	0.50	1.57	0.32	6.43	0.00	1.22	4.81
2	1.15	0.37	0.00	0.00	3.25	0.18	1.02	0.00	0.98	0.09	0.25	3.42
3	0.54	0.00	0.00	0.00	1.64	3.20	0.07	0.00	2.60	0.50	4.85	2.36
4	0.31	0.00	0.00	0.00	3.45	0.00	0.41	1.19	0.15	0.98	12.83	0.99
5	0.00	0.00	0.83	0.00	12.09	0.65	12.08	0.00	2.25	0.65	39.93	0.57
6	0.00	0.00	0.00	0.00	4.41	0.48	0.00	1.86	1.24	0.00	9.10	2.08
7	0.00	0.00	0.00	0.00	6.46	0.21	1.35	7.45	0.00	1.47	3.94	1.34
8	0.00	0.00	0.00	0.00	5.45	0.00	0.50	4.16	4.03	0.46	39.20	1.12
9	0.00	0.00	0.00	0.00	2.90	0.00	1.04	10.81	3.80	0.63	6.00	1.79
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	4.02	0.61	3.84	0.00
11	0.00	0.00	0.00	0.00	0.08	0.00	0.40	0.23	10.71	1.33	0.90	0.00
12	0.00	0.00	0.17	0.02	0.00	0.28	0.00	0.55	2.99	0.00	2.03	0.00
13	0.00	0.00	0.51	0.00	0.00	0.00	0.28	2.80	7.58	2.33	1.35	0.00
14	0.00	0.00	0.00	0.00	0.43	1.10	1.39	2.54	0.21	0.86	0.95	0.00
15	0.00	0.00	0.00	2.79	0.62	0.10	0.19	0.63	0.30	0.35	0.09	0.37
16	0.77	0.00	0.00	0.62	0.44	0.00	0.00	0.85	0.00	1.88	0.00	0.42
17	0.00	0.00	0.00	0.00	0.00	2.16	0.00	1.75	0.00	4.93	0.00	3.41
18	0.52	0.00	0.00	0.38	0.00	1.15	0.00	11.72	0.00	3.02	0.00	19.40
19	0.16	0.00	4.46	0.99	0.00	0.49	0.00	5.40	0.60	4.36	0.00	1.25
20	0.00	0.00	0.00	0.00	0.00	3.98	1.10	4.86	12.09	1.35	0.00	3.45
21	0.00	0.00	0.00	0.28	0.00	1.60	0.80	1.16	6.28	0.00	0.00	3.01
22	0.00	0.00	0.33	1.29	0.00	2.38	0.78	16.53	0.90	0.23	0.00	1.79
23	0.00	0.00	0.28	0.11	0.32	3.56	2.52	7.53	26.95	0.38	0.00	1.95
24	0.00	2.27	0.39	0.00	1.51	4.30	5.00	34.06	1.40	0.00	0.41	6.86
25	2.09	0.00	0.37	0.00	0.00	2.82	1.02	0.18	3.45	0.34	1.30	1.99
26	0.69	0.00	1.10	0.00	0.80	1.50	0.00	0.00	0.88	0.23	1.58	7.35
27	0.00	0.00	0.00	0.00	5.03	7.24	0.68	1.27	2.39	0.00	1.21	3.05
28	0.00	0.31	1.23	0.00	2.35	2.42	1.49	0.00	1.27	0.98	43.66	21.10
29	0.00		0.55	0.00	1.56	1.45	0.41	1.59	1.27	0.10	3.10	13.14
30	0.00		0.14	4.23	0.00	2.25	0.29	12.75	9.63	0.00	2.66	6.04
31	0.00		0.00		0.17		11.11	8.16		0.04		4.33
Mean	0.22	0.11	0.33	0.36	1.99	1.47	1.47	4.63	3.81	0.91	6.01	3.79

Flare Index of Solar Activity Southern Hemisphere 1998



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.36	0.00	1.05	3.88	6.18	0.00	2.35	2.07	7.00	0.67	0.33	0.16
2	0.20	0.00	2.99	3.45	25.34	0.27	0.14	1.71	1.38	0.34	8.14	0.00
3	0.00	0.00	6.44	4.05	8.19	0.38	1.47	0.14	6.70	0.00	0.00	0.00
4	0.00	0.00	1.72	5.02	6.40	2.01	8.78	0.45	0.54	0.00	0.71	0.00
5	0.00	0.00	3.71	2.41	10.64	0.90	2.17	1.69	1.16	0.00	1.40	0.11
6	0.00	0.79	0.30	4.49	15.81	0.17	0.02	4.87	2.67	0.00	0.75	0.96
7	0.00	0.60	0.00	0.00	4.06	2.04	0.00	1.77	0.36	13.82	0.48	1.71
8	2.37	0.20	0.11	5.88	0.96	5.58	0.00	0.13	0.25	3.69	1.43	22.66
9	0.00	0.00	0.44	2.95	0.00	0.50	1.02	0.94	0.53	2.19	0.00	5.32
10	0.13	0.09	0.00	2.27	1.13	1.12	2.45	3.86	0.63	0.00	0.07	1.85
11	0.00	0.25	1.11	8.89	3.65	0.77	1.24	0.09	0.00	0.52	0.56	5.31
12	2.95	2.06	0.00	0.60	3.17	3.31	0.00	0.49	0.00	0.72	0.34	4.54
13	1.41	0.14	1.21	1.31	1.98	5.17	0.34	1.11	0.00	0.00	0.15	3.15
14	4.00	2.29	3.12	0.25	4.11	1.04	2.90	2.54	0.69	3.09	0.44	2.44
15	5.08	7.04	12.06	2.49	0.34	0.00	5.02	0.85	0.13	0.42	0.00	0.96
16	0.35	0.00	22.84	0.23	1.11	0.48	6.23	0.00	0.00	2.98	0.00	3.02
17	0.51	3.18	3.15	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.39	5.98
18	0.09	7.92	6.23	0.00	0.00	0.10	0.00	0.00	2.72	0.00	0.00	0.50
19	0.10	1.88	5.75	0.00	0.00	0.83	2.69	0.00	1.09	0.00	0.00	0.33
20	0.00	3.99	0.00	0.00	0.00	0.00	3.23	1.84	0.61	0.74	0.00	0.00
21	0.00	0.00	0.32	0.00	0.00	0.00	1.09	0.00	0.00	0.67	0.00	0.00
22	0.60	0.27	1.92	0.00	0.00	0.15	0.45	0.00	0.33	2.07	0.09	0.00
23	0.21	0.21	0.00	0.00	0.00	0.00	0.62	0.00	1.15	1.19	5.00	0.00
24	0.00	0.00	1.22	0.00	0.00	0.00	1.11	0.00	1.33	0.53	0.96	0.00
25	0.33	0.00	0.79	7.44	0.00	0.00	1.57	0.00	2.11	0.34	2.08	0.00
26	1.77	0.99	12.62	0.11	0.14	0.00	1.92	0.00	2.51	0.00	1.24	0.08
27	0.00	0.00	16.92	26.95	6.03	0.00	0.00	0.00	3.56	0.00	14.87	0.23
28	0.00	0.13	0.40	1.65	0.11	0.10	0.59	0.26	0.34	0.00	0.00	1.46
29	0.43		0.00	55.99	0.48	3.17	0.00	0.00	0.00	0.25	0.00	0.53
30	0.11		1.11	5.65	0.00	0.00	0.00	2.66	1.38	0.00	0.72	0.00
31	0.00		4.03		0.27		0.21	2.61		0.00		0.00
Mean	0.74	1.14	3.60	4.87	3.23	0.94	1.58	0.97	1.31	1.10	1.34	1.98

Flare Index of Solar Activity Full Disk 1998



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.87	0.00	1.05	3.88	14.83	0.50	3.92	2.40	13.43	0.67	1.56	4.98
2	1.35	0.37	2.99	3.45	28.59	0.45	1.16	1.71	2.36	0.43	8.39	3.42
3	0.54	0.00	6.44	4.05	9.83	3.58	1.54	0.14	9.30	0.50	4.85	2.36
4	0.31	0.00	1.72	5.02	9.85	2.01	9.19	1.64	0.69	0.98	13.55	0.99
5	0.00	0.00	4.54	2.41	22.72	1.54	14.25	1.69	3.42	0.65	41.33	0.68
6	0.00	0.79	0.30	4.49	20.22	0.65	0.02	6.73	3.91	0.00	9.85	3.04
7	0.00	0.60	0.00	0.00	10.53	2.25	1.35	9.22	0.36	15.29	4.42	3.05
8	2.37	0.20	0.11	5.88	6.41	5.58	0.50	4.29	4.28	4.15	40.63	23.78
9	0.00	0.00	0.44	2.95	2.90	0.50	2.06	11.75	4.33	2.81	6.00	7.11
10	0.13	0.09	0.00	2.27	1.13	1.12	2.45	6.96	4.64	0.61	3.91	1.85
11	0.00	0.25	1.11	8.89	3.73	0.77	1.64	0.32	10.71	1.85	1.46	5.31
12	2.95	2.06	0.17	0.63	3.17	3.59	0.00	1.04	2.99	0.72	2.37	4.54
13	1.41	0.14	1.72	1.31	1.98	5.17	0.62	3.91	7.58	2.33	1.50	3.15
14	4.00	2.29	3.12	0.25	4.54	2.15	4.29	5.08	0.90	3.94	1.40	2.44
15	5.08	7.04	12.06	5.27	0.96	0.10	5.21	1.48	0.43	0.77	0.09	1.33
16	1.12	0.00	22.84	0.85	1.54	0.48	6.23	0.85	0.00	4.85	0.00	3.44
17	0.51	3.18	3.15	0.00	0.00	2.16	1.28	1.75	0.00	4.93	0.39	9.39
18	0.61	7.92	6.23	0.38	0.00	1.24	0.00	11.72	2.72	3.02	0.00	19.90
19	0.26	1.88	10.21	0.99	0.00	1.32	2.69	5.40	1.68	4.36	0.00	1.58
20	0.00	3.99	0.00	0.00	0.00	3.98	4.34	6.70	12.70	2.09	0.00	3.45
21	0.00	0.00	0.32	0.28	0.00	1.60	1.89	1.16	6.28	0.67	0.00	3.01
22	0.60	0.27	2.25	1.29	0.00	2.52	1.24	16.53	1.22	2.30	0.09	1.79
23	0.21	0.21	0.28	0.11	0.32	3.56	3.14	7.53	28.10	1.57	5.00	1.95
24	0.00	2.27	1.61	0.00	1.51	4.30	6.11	34.06	2.73	0.53	1.37	6.86
25	2.41	0.00	1.17	7.44	0.00	2.82	2.59	0.18	5.56	0.69	3.38	1.99
26	2.46	0.99	13.72	0.11	0.94	1.50	1.92	0.00	3.39	0.23	2.82	7.44
27	0.00	0.00	16.92	26.95	11.06	7.24	0.68	1.27	5.95	0.00	16.07	3.28
28	0.00	0.44	1.63	1.65	2.47	2.52	2.08	0.26	1.61	0.98	43.66	22.56
29	0.43		0.55	55.99	2.05	4.62	0.41	1.59	1.27	0.35	3.10	13.67
30	0.11		1.25	9.88	0.00	2.25	0.29	15.41	11.01	0.00	3.38	6.04
31	0.00		4.03		0.44		11.32	10.77		0.04		4.33
Mean	0.96	1.25	3.93	5.22	5.22	2.40	3.05	5.60	5.12	2.01	7.35	5.76

Flare Activity on the Sun

Jan 1986 - Dec 1998

