

NOVEMBER 2001 NUMBER 687 - Part II

Solar-Geophysical Data comprehensive reports



Data for May 2001 and Miscellaneous

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Data for May 2001 and Late Data

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SOLAR-GEOPHYSICAL DATA

Number 687

(Issued in Two Parts)

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H α SOLAR FLARES

MAY 2001

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	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)	
		01	0000		0008		No Flare Patrol											
0001	LEAR	01	0210	0211	0215	N21	W68	9433	04	26.0	5	SF	2	E		23		
0002	LEAR	01	0528	0528	0531	N21	W71	9433	04	25.9	3	SF	3	E		27		
0003		01	05502	05521	0556	N20	W73	9433	04	25.7	6	SF				24	H	
	LEAR	01	0550	0552	0556	N20	W72	9433	04	25.8	6	SF	2	E		26	H	
	SVTO	01	0552	0553	0555	N19	W74	9433	04	25.7	3	SF	3	E		22	H	
0004	LEAR	01	0850	0851	0854	N20	W74	9433	04	25.8	4	SF	2	E		83	H	
0005	SVTO	01	1429	1439	1520	N19	W78	9433	04	25.7	51	SF	3	E		46	FH	
0006		01	15035	1516	1526	N06	W12	9441	04	30.7	23	SF				26	F	
	SVTO	01	1503	1516	1527	N06	W13	9441	04	30.6	24	SF	3	E		26	F	
	HOLL	01	1508	1516	1526	N07	W12	9441	04	30.7	18	SF	3	E		26	F	
0007		01	16502	16531	1728	N23	E42	9445	05	4.9	38	SF				56		
	RAMY	01	1650	1653	1713	N23	E42	9445	05	4.9	23	SF	3	E		82		
	HOLL	01	1652	1654	1743	N23	E42	9445	05	4.9	51	SF	3	E		30		
0008	RAMY	01	1650	1650	1720D	N07	W12	9441	04	30.8	30D	SF	3	E		21		
0009	HOLL	01	1656	1656	1659	N22	W77	9433	04	25.9	3	SF	3	E		49		
0010	HOLL	01	1725	1727	1753	N07	W13	9441	04	30.7	28	SF	3	E		53		
0011	HOLL	01	1844	1847	1903	N23	E41	9445	05	4.9	19	SF	3	E		31		
0012	HOLL	01	1910	1911	2028	N22	W77	9433	04	26.0	78	SF	3	E		88	F	
0013	HOLL	01	1942	1943	1954	N22	E36	9445	05	4.6	12	SF	3	E		10		
0014	HOLL	01	2012	2016	2027	N23	E40	9445	05	4.9	15	SF	3	E		13		
0015		02	00231	00245	0038	N26	E41	9445	05	5.2	15	SF				22	F	
	HOLL	02	0023	0029	0039	N25	E41	9445	05	5.2	16	SF	3	E		26		
	LEAR	02	0024	0024	0036	N28	E41	9445	05	5.2	12	SF	2	E		17	F	
0016	HOLL	02	0031	0031	0036	N08	W17	9441	04	30.7	5	SF	3	E		13		
0017	HOLL	02	0043	0047	0054	N06	W19	9441	04	30.6	11	SF	3	E		21		
0018		02	00561	00583	0110	N06	W17	9441	04	30.8	14	SF				30	F	
	HOLL	02	0056	0058	0139D	N06	W18	9441	04	30.7	43D	SF	3	E		35		
	LEAR	02	0057	0101	0110	N07	W16	9441	04	30.8	13	SF	2	E		26	F	
0019	LEAR	02	0118	0120	0123	N28	E40	9445	05	5.2	5	SF	2	E		15	F	
0020	LEAR	02	0233	0233	0300	N24	E35	9445	05	4.8	27	SF	2	E		15	F	
0021		02	0628	0630	0701	N06	W22	9441	04	30.6	33	1N				133	FH	
	LEAR	02	0628	0630	0700	N07	W21	9441	04	30.7	32	1N	3	E		159	FH	
	SVTO	02	0628	0630	0702	N06	W22	9441	04	30.6	34	1F	3	E		107	FH	
0022		02	10512	10563	1109	N24	E30	9445	05	4.8	18	SF				14		
	SVTO	02	1051	1059	1110	N25	E30	9445	05	4.8	19	SF	3	E		17		
	RAMY	02	1053	1056	1108	N23	E29	9445	05	4.7	15	SF	3	E		11		
0023		02	11191	11201	1128	N07	W22	9441	04	30.8	9	SF				18	FH	
	RAMY	02	1119	1120	1129	N07	W23	9441	04	30.7	10	SF	3	E		17	F	
	SVTO	02	1120	1121	1128	N07	W22	9441	04	30.8	8	SF	3	E		18	H	
0024	RAMY	02	1127	1128	1134	N23	E30	9445	05	4.8	7	SF	3	E		17		
		02	1915		1945	No Flare Patrol												
		02	2035		2046	No Flare Patrol												
		02	2114		2121	No Flare Patrol												
		02	2150		2301	No Flare Patrol												

H α SOLAR FLARES

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May 01

MAY 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
						Lat	Cmd	Region								Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0025	LEAR	03	0054	0056	0104	N11	W15	9447	05	1.9	10	SF		4	E		13		FH	
0026		03	0402	04052	0422	N24	E24	9445	05	5.0	20	SN					51	0.8	E	
	LEAR	03	0402	0407	0420	N26	E25	9445	05	5.1	18	SF		3	E		38			
	URUM	03	0405E	0405	0425	N23	E24	9445	05	5.0	20D	SN			P		64	0.8	E	
0027	LEAR	03	0509E	0512U	0519	N11	W20	9447	05	1.7	10D	SF		3	E		19		H	
		03	0632		0643	No Flare Patrol														
0028	SVTO	03	0739	0739	0743	N11	W22	9447	05	1.7	4	SF		3	E		18			
0029	SVTO	03	0822	0830	0844	N13	W21	9447	05	1.8	22	SF		3	E		41		F	
0030	SVTO	03	1107	1108	1115	N12	W25	9447	05	1.6	8	SF		3	E		12		F	
0031	SVTO	03	1211	1218	1224	N29	E22	9445	05	5.2	13	SF		3	E		12			
0032	HOLL	03	1356	1358	1359	N24	E19	9445	05	5.0	3	SF		3	E		12			
0033	SVTO	03	1532	1533	1537	N29	E19	9445	05	5.1	5	SF		3	E		14		F	
0034	SVTO	03	1549	1551	1558D	N12	W28	9447	05	1.5	9D	SF		3	E		13		F	
		03	1602		1609	No Flare Patrol														
		03	1624		1637	No Flare Patrol														
0035	HOLL	03	2040	2040	2048	N24	E12	9445	05	4.8	8	SF		3	E		10			
0036	SVTO	04	1046	1048	1058	N25	E07	9445	05	5.0	12	SF		3	E		21			
0037		04	1436*	15006	1540	N24	E04	9445	05	4.9	64	SF					37		FU	
	SVTO	04	1436	1504	1552	N25	E03	9445	05	4.8	76	SF		3	E		36		F	
	HOLL	04	1442	1506	1529	N24	E03	9445	05	4.8	47	SF		3	E		54		UF	
	RAMY	04	1449	1500	1529D	N24	E06	9445	05	5.1	40D	SF		3	E		21		F	
0038	HOLL	04	1530	1530	1535	N25	E07	9445	05	5.2	5	SF		3	E		16		F	
0039	HOLL	04	1541	1549	1555	N24	W03	9445	05	4.4	14	SF		3	E		36		F	
0040		04	14421	14473	1510	N12	W35	9447	05	2.0	28	SF					46		F	
	SVTO	04	1442	1447	1510	N12	W35	9447	05	2.0	28	SF		3	E		53		F	
	RAMY	04	1443	1450	1546D	N12	W35	9447	05	2.0	63D	SF		3	E		39		F	
0041	HOLL	04	1904	1905	1910	N12	W38	9447	05	1.9	6	SF		3	E		21		F	
		04	2344		2348	No Flare Patrol														
		05	0027		0107	No Flare Patrol														
0042	LEAR	05	0457	0458	0511	N29	E37	9448	05	8.1	14	SF		2	E		10		F	
0043	LEAR	05	0512	0514	0517	N30	E37	9448	05	8.1	5	SF		2	E		14		F	
		05	0701		0727	No Flare Patrol														
0044		05	08432	0855	0920D	N27	W07	9445	05	4.8	37D	1F					186		F	
	LEAR	05	0843	0853U	0856D	N29	W08	9445	05	4.7	13D	1F		2	E		226		F	
	SVTO	05	0845	0855	0920D	N25	W06	9445	05	4.9	35D	1F		2	E		146		F	
		05	0921		0932	No Flare Patrol														
		05	0954		1018	No Flare Patrol														
0045	HOLL	05	1811	1814	1853	N24	W13	9445	05	4.7	42	SF		3	E		78		FU	
		05	2142		2205	No Flare Patrol														
0046	URUM	06	0855E	0855	0855D	N08	W61	9447	05	1.8	42D	SN			P		80	1.8	D	
0047	URUM	06	1205E	1205U	1205D	N24	W26	9445	05	4.5	42D	1N			P		241	3.1	E	

H α SOLAR FLARES

MAY 2001

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)	
0048	URUM	06	1225E	1225	1225D	N25	W27	9445	05	4.4	42D	1N			P	370	4.9	E	
		06	1226		1227	No Flare Patrol													
0049	HOLL	06	1936	2011	2028	N24	W28	9445	05	4.6	52	SF		3	E	68		F	
0050	HOLL	06	2030	2030	2037	N25	W23	9445	05	5.1	7	SF		3	E	15		F	
0051	URUM	07	0400E	0400	0417	N26	W34	9445	05	4.5	17D	2N			P	402	5.8	E	
0052	URUM	07	1021	1025	1029	N27	W36	9445	05	4.6	8	1N			P	273	4.1	E	
0053	URUM	07	1052	1056	1108	N23	W38	9445	05	4.5	16	1N			C	193	2.9	D	
0054	URUM	07	1132	1207	1231D	N26	W38	9445	05	4.5	59D	2N			P	482	7.3	E	
0055	RAMY	07	1138	1142	1148	N26	W32	9445	05	5.0	10	SF		3	E	28		F	
0056	RAMY	07	1205	1214	1241	N25	W35	9445	05	4.8	36	SF		3	E	62		F	
0057		07	1538I	1540A	1610	N24	W40	9445	05	4.6	32	SF				34		FH	
	RAMY	07	1538	1544	1613	N24	W40	9445	05	4.6	35	SF		3	E	28		F	
	SVTO	07	1539	1540U	1549D	N24	W40	9445	05	4.6	10D	SF		2	E	39		F	
	HOLL	07	1539	1540	1607	N24	W39	9445	05	4.6	28	SF		3	E	35		FH	
0058		08	0041	0052*	0136	N24	W43	9445	05	4.7	55	1F				306	9.0	EFU	
	HOLL	08	0041	0052	0108D	N24	W44	9445	05	4.6	27D	1F		3	E	147			
	URUM	08	0055E	0103	0134	N25	W42	9445	05	4.8	39D	2N			P	563	9.0	E	
	LEAR	08	0056E	0057U	0137	N23	W43	9445	05	4.7	41D	1F		3	E	209		UF	
		08	2030		2039	No Flare Patrol													
		08	2108		2115	No Flare Patrol													
		08	2131		2133	No Flare Patrol													
		08	2305		2352	No Flare Patrol													
		09	0035		0323	No Flare Patrol													
0059	URUM	09	0347E	0347	0347D	N27	W52	9445	05	5.1	41D	2N			P	321	6.4	E	
0060	URUM	09	0355	0403	0407	N27	W52	9445	05	5.1	12	1N			C	177	3.5	D	
0061	LEAR	09	0533	0535	0544	N22	W60	9445	05	4.6	11	SF		3	E	64			
0062		09	0557E	0558I	0614	N27	W57	9445	05	4.8	17	1F				121	7.6	E	
	URUM	09	0542E	0606U	0610	N28	W58	9445	05	4.7	28D	2N			P	321	7.6	E	
	LEAR	09	0557	0558	0619	N26	W57	9445	05	4.8	22	SF		3	E	23			
	SVTO	09	0559	0559	0614	N26	W57	9445	05	4.8	15	SF		3	E	18			
0063	URUM	09	0614	0618	0630	N30	W52	9445	05	5.2	16	2N			C	354	7.3	E	
0064	URUM	09	0717E	0717	0722	N24	W41		05	6.1	5D	1N			P	193	3.0	E	
0065	SVTO	09	0857E	0857	0909	N26	W56	9445	05	5.0	12D	SF		3	E	16		F	
		09	1954		2400	No Flare Patrol													
		10	0000		0126	No Flare Patrol													
0066	URUM	10	0127	0143	0206D	N24	W65	9445	05	5.0	39D	1N			P	241		E	
0067	URUM	10	0456	0500	0505	N20	W22	9448	05	8.5	9	SN			C	113	1.4	D	
0068	URUM	10	0939	0946	0946D	S21	E11	9451	05	11.2	7D	SN			P	161	1.8	E	
0069	SVTO	10	1020	1022	1034	S18	W26	9449	05	8.4	14	SF		3	E	26		F	
		10	1853		2038	No Flare Patrol													
		10	2052		2131	No Flare Patrol													
		10	2149		2307	No Flare Patrol													
		10	2313		2323	No Flare Patrol													
		11	0000		0005	No Flare Patrol													

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
			14 1718		1752			No Flare Patrol												
			14 1925		2122			No Flare Patrol												
			14 2150		2209			No Flare Patrol												
			14 2242		2248			No Flare Patrol												
			14 2259		2321			No Flare Patrol												
0095	LEAR	15	0257	0300	0316	S17	W29	9455	05	12.9	19	1N		3	E		106			F
0096		15	0837	08359	0857	S17	W33	9455	05	12.8	20	1N					117	2.2		EF
	URUM	15	0835E	0835	0835D	S17	W32	9455	05	12.9	20D	1N			P		177	2.2		E
	SVTO	15	0837	0844	0857	S17	W34	9455	05	12.8	20	SF		3	E		57			F
0097		15	0837*	09132	0920	S17	W34	9455	05	12.8	43	SF					34			
	LEAR	15	0837	0915	0922D	S16	W34	9455	05	12.8	45D	SF		3	E		36			
	SVTO	15	0912	0913	0920	S18	W33	9455	05	12.9	8	SF		3	E		32			
		15	1427		1435			No Flare Patrol												
		15	1456		1629			No Flare Patrol												
0098	RAMY	15	1717	1717	1722	N06	W42	9456	05	12.6	5	SF		3	E		21			
		15	1801		1824			No Flare Patrol												
		15	1838		2035			No Flare Patrol												
0099	HOLL	15	2103	2107	2109	S16	W40	9455	05	12.8	6	SF		3	E		12			
0100	LEAR	16	0206	0210	0217	S16	W38	9455	05	13.2	11	SF		3	E		13			
0101		16	0631	0633	0646	S17	W44	9455	05	12.9	15	SF					52			F
	SVTO	16	0631	0633	0645	S17	W44	9455	05	12.9	14	SF		2	E		44			F
	LEAR	16	0631	0633	0647	S17	W45	9455	05	12.8	16	SF		3	E		60			F
0102	LEAR	16	0829	0840	0853	N17	E58	9461	05	20.8	24	SF		3	E		50			
0103	KHAR	16	0925E		0955	S20	W45	9455	05	12.9	30D	SF		2	P	0935	160			E
0104		16	10393	10421	1056	S18	W46	9455	05	12.9	17	SN					93			EF
	SVTO	16	1039	1042	1103	S17	W47	9455	05	12.9	24	SF		3	E		93			F
	KHAR	16	1042	1043	1050	S19	W44	9455	05	13.1	8	SN		2	V					E
0105	URUM	16	1056E	1056	1106	N40	W31		05	13.9	10D	1N			P		241	3.9		E
		16	1531		1536			No Flare Patrol												
0106	SVTO	16	1547	1549	1554	S11	W69	9458	05	11.5	7	SF		3	E		14			F
0107	HOLL	16	1838	1838	1842	S17	W54	9455	05	12.7	4	SF		3	E		15			F
0108	LEAR	16	2348	2353	2403	N14	W10	9454	05	16.2	15	SF		3	E		32			F
0109		17	0123	01241	0131	S16	W57	9455	05	12.7	8	1N					183	7.1		E
	LEAR	17	0123	0124	0129	S16	W56	9455	05	12.8	6	SF		3	E		12			
	URUM	17	0125E	0125	0133	S17	W58	9455	05	12.6	8D	2N			P		354	7.1		E
0110		17	0549	0553	0605	S18	W82	9451	05	11.0	16	1N					108			D
	URUM	17	0549	0553	0605	S18	W78	9451	05	11.3	16	1N			C		161			D
	LEAR	17	0550E	0559U	0605	S19	W87	9451	05	10.6	15D	SF		3	E		55			
0111	URUM	17	1001E	1001	1010	N48	W46		05	13.5	9D	1N			P		96	2.3		E
0112	KHAR	17	1025E		1041	N14	W08	9454A	05	16.8	16D	SF		2	P	1032	130			EH
0113	SVTO	17	1122	1123	1127	N16	W07	9454	05	16.9	5	SF		3	E		22			F
0114	HOLL	17	1351	1356	1405	S13	W60	9455	05	13.0	14	SF		3	E		23			F
0115	HOLL	17	1431	1431	1437	S17	W63	9455	05	12.8	6	SF		3	E		18			F
0116	HOLL	17	1634	1635	1645	S17	W64	9455	05	12.8	11	SF		3	E		36			F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0117	HOLL	17	1648	1652	1704	S16	W64	9455	05	12.8	16	1F		3	E		111		F	
0118	HOLL	17	1940	1957	2028	N13	W19	9454	05	16.4	48	1F		3	E		111		F	
0119	HOLL	17	2044	2045	2111	N13	W19	9454	05	16.4	27	1F		3	E		131		F	
0120	HOLL	17	2138	2141	2145	N22	E52	9461	05	21.9	7	SF		3	E		28			
0121	HOLL	17	2324	2328	2335	N20	E54	9461	05	22.1	11	SF		3	E		22			
0122	HOLL	17	2354	2354	2358	S16	W68	9455	05	12.8	4	SF		3	E		25			
0123	URUM	18	0454	0459	0459D	S16	W72	9455	05	12.7	5D	2N			P		418		E	
0124	URUM	18	0632	0645	0649D	S17	W71	9455	05	12.9	17D	2N			P		289		E	
0125	KHAR	18	0945U	0945U	0956	S21	W72	9455	05	12.9	11U	SF		2	P	0947	80		D	
0126	KHAR	18	1253	1255	1303	N12	E78	9463	05	24.4	10	SF		2	V					
			18 1748		1809	No Flare Patrol														
			18 1949		1954	No Flare Patrol														
			18 2026		2215	No Flare Patrol														
			18 2238		2301	No Flare Patrol														
0127	URUM	19	0149E	0149	0152	N19	E36	9461	05	21.8	3D	SN			P		129	1.8	E	
0128	URUM	19	0441E	0441	0441D	N09	E71	9463	05	24.5	3D	1N			P		80		E	
			19 0728		0903	No Flare Patrol														
0129	KHAR	19	0936	0938	0946	S23	W78	9455	05	13.4	10	SF		2	P	0941	50		D	
0130	KHAR	19	1003	1004	1008	S23	W78	9455	05	13.4	5	SF		2	P				DHO	
			19 1251		1433	No Flare Patrol														
			19 1522		1632	No Flare Patrol														
			19 1847		1911	No Flare Patrol														
			19 1949		1959	No Flare Patrol														
			19 2027		2040	No Flare Patrol														
			19 2110		2123	No Flare Patrol														
			20 0806		0938	No Flare Patrol														
			20 0945		1000	No Flare Patrol														
			20 1037		1219	No Flare Patrol														
			20 1714		1747	No Flare Patrol														
			20 1923		1951	No Flare Patrol														
			21 0159		0227	No Flare Patrol														
			21 0330		0344	No Flare Patrol														
			21 0809		0824	No Flare Patrol														
			21 0912		0914	No Flare Patrol														
0131	KHAR	21	0915E		0937	N23	E06	9461	05	21.8	22D	SN		2	P	0925	90		E	
			21 1001		1014	No Flare Patrol														
			21 1051		1219	No Flare Patrol														
0132	RAMY	21	1545	1546	1551	S13	E55	9465	05	25.8	6	SF		3	E		13			
			22 1146		1210	No Flare Patrol														
0133		22	14071	14102	1418	S18	W16	9470	05	21.4	11	SF					20			
	RAMY	22	1407	1410	1419	S18	W16	9470	05	21.4	12	SF		3	E		18			
	HOLL	22	1408	1412	1416	S19	W15	9470	05	21.4	8	SF		3	E		23			
0134	HOLL	22	2244	2245	2300	S18	W20	9470	05	21.4	16	SF		3	E		11		F	
0135	URUM	23	0222E	0222	0222D	S21	W13	9470	05	22.1	16D	SN			P		129	1.4	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)	Xray	Obs See	Type	Area Measurement			Remarks			
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)				
0136	23	1111	11102	1116	N25 W22	9461	05	21.8	5	SN					88	2.0	E				
	URUM	23	1110E	1110	1110D	N25 W23	9461	05	21.7	5D	SN			P	161	2.0	E				
	RAMY	23	1111	1112	1116	N25 W21	9461	05	21.8	5	SF	3	E		16						
0137	HOLL	23	1250	1251	1259	N08 E45	9468	05	26.9	9	SF	3	E		23						
0138	23	1428	1428	1431	N06 E44	9468	05	26.9	3	SF					14						
	SVTO	23	1428	1428	1431	N07 E44	9468	05	26.9	3	SF	3	E		11						
	RAMY	23	1428	1428	1431	N06 E45	9468	05	27.0	3	SF	3	E		17						
0139	LEAR	24	0530	0533	0538	N08 E34	9468	05	26.8	8	SF	3	E		17		F				
0140	URUM	24	0611	0623	0623D	N19 W43	9461	05	21.0	12D	1N		P		241	3.6	E				
0141	SVTO	24	0947	0950	0950	S07 E09	9465	05	25.1	3	SF	3	E		12		H				
0142	KHAR	24	1230		1248	S20 W38	9470	05	21.6	18	SF	2	V				H				
0143	HOLL	24	1934	1939	2021	N07 E29	9468	05	27.0	47	1N	3	E		238		FH				
0144	25	00023	00043	0013	N05 W12	9463	05	24.1	11	SF					71	1.3	BF				
	LEAR	25	0002	0006	0020	N06 W13	9463	05	24.0	18	SF	3	E		52		F				
	MITK	25	0004	0004	0007	N05 W13	9463	05	24.0	3	SN		C	0004	125	1.3	B				
	HOLL	25	0005	0007	0012	N05 W10	9463	05	24.2	7	SF	3	E		37		F				
0145	LEAR	25	0407	0407	0420	S09 E04	9465	05	25.5	13	SF	3	E		17		F				
0146	LEAR	25	0434	0434	0437	S17 W51	9470	05	21.3	3	SF	3	E		18						
0147	LEAR	25	0446	0446	0450	N06 E21	9468	05	26.8	4	SF	3	E		11		F				
0148	25	0504	0507	0510	N08 E22	9468	05	26.9	6	1N					110	2.4	E				
	LEAR	25	0504	0507	0510	N09 E21	9468	05	26.8	6	SF	3	E		12						
	URUM	25	0506E	0506U	0506D	N07 E24	9468	05	27.0	6D	1N		P		209	2.4	E				
0149	25	07102	07111	0719	N03 E20	9468	05	26.8	9	1N					105	2.1	EF				
	URUM	25	0710	0711	0717	N03 E19	9468	05	26.7	7	1N		C		193	2.1	E				
	LEAR	25	0712	0712	0721	N03 E20	9468	05	26.8	9	SF	3	E		17		F				
0150	URUM	25	0812E	0812	0812D	N06 E19	9468	05	26.8	9D	SN		P		96	1.1	E				
0151	KHAR	25	0856	0858	0903	N06 E18	9468	05	26.7	7	SF	2	P	0901	30		D				
0152	25	09311	09353	1000	N23 W48	9461	05	21.7	29	1N					218	4.4	EH				
	URUM	25	0931	0938	0951	N24 W48	9461	05	21.7	20	1N		C		257	4.4	E				
	KHAR	25	0932	0935	1009	N22 W48	9461	05	21.7	37	1F	2	P	0942	180		HE				
		25	1026		1036	No Flare Patrol															
0153	RAMY	25	1053	1054	1102	N03 E19	9468	05	26.9	9	SF	3	E		29		F				
0154	RAMY	25	1119	1120	1124	N03 E19	9468	05	26.9	5	SF	3	E		13		F				
0155	HOLL	25	1916	1928	2014	N03 E16	9468	05	27.0	58	1F	3	E		164		F				
0156	HOLL	25	2014	2017	2019	N03 E16	9468	05	27.0	5	SF	3	E		10						
0157	RAMY	25	1919	1929	2004	S08 W07	9468	05	25.3	45	1F	3	E		175		FH				
0158	HOLL	25	1936	1946	1956	N05 W23	9463	05	24.1	20	SF	3	E		23		F				
			25	2044		2051	No Flare Patrol														
0159	HOLL	25	2202	2204	2233	N07 E15	9468	05	27.0	31	SF	3	E		73		F				
			26	1041		1121	No Flare Patrol														
0160	26	1207	1209	1216	N03 E00	9468	05	26.5	9	SF					30						
	SVTO	26	1207	1208U	1219D	N04 E00	9468	05	26.5	12D	SF	3	E		14						
	RAMY	26	1207	1209	1216	N02 E00	9468	05	26.5	9	SF	3	E		45						

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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)	
0161	HOLL	26	1620	1623	1624	N04	E03	9468	05	26.9	4	SF		3	E		11		
		28	1745		1748			No Flare Patrol											
		28	1810		1859			No Flare Patrol											
		28	1923		1928			No Flare Patrol											
		28	1940		1947			No Flare Patrol											
		28	2009		2053			No Flare Patrol											
		28	2201		2241			No Flare Patrol											
		29	0018		0036			No Flare Patrol											
		29	0046		0111			No Flare Patrol											
0162		29	05241	05263	0535	N20	E43	9475	06	1.5	11	SF					32	0.5	B
	LEAR	29	0524	0526	0544	N20	E43	9475	06	1.5	20	SF		3	E		44		
	MITK	29	0525	0526	0527	N21	E43	9475	06	1.5	2	SN			C	0526	35	0.5	B
	SVTO	29	0525	0529	0533	N20	E43	9475	06	1.5	8	SF		3	E		16		
0163	SVTO	29	0753	0754	0802	N19	E41	9475	06	1.4	9	SF		3	E		12		F
		30	0149		0406			No Flare Patrol											
		31	0701		0749			No Flare Patrol											
0164	HOLL	31	2057	2106	2108	S16	W31	9477	05	29.5	11	SF		3	E		15		

"Remarks"

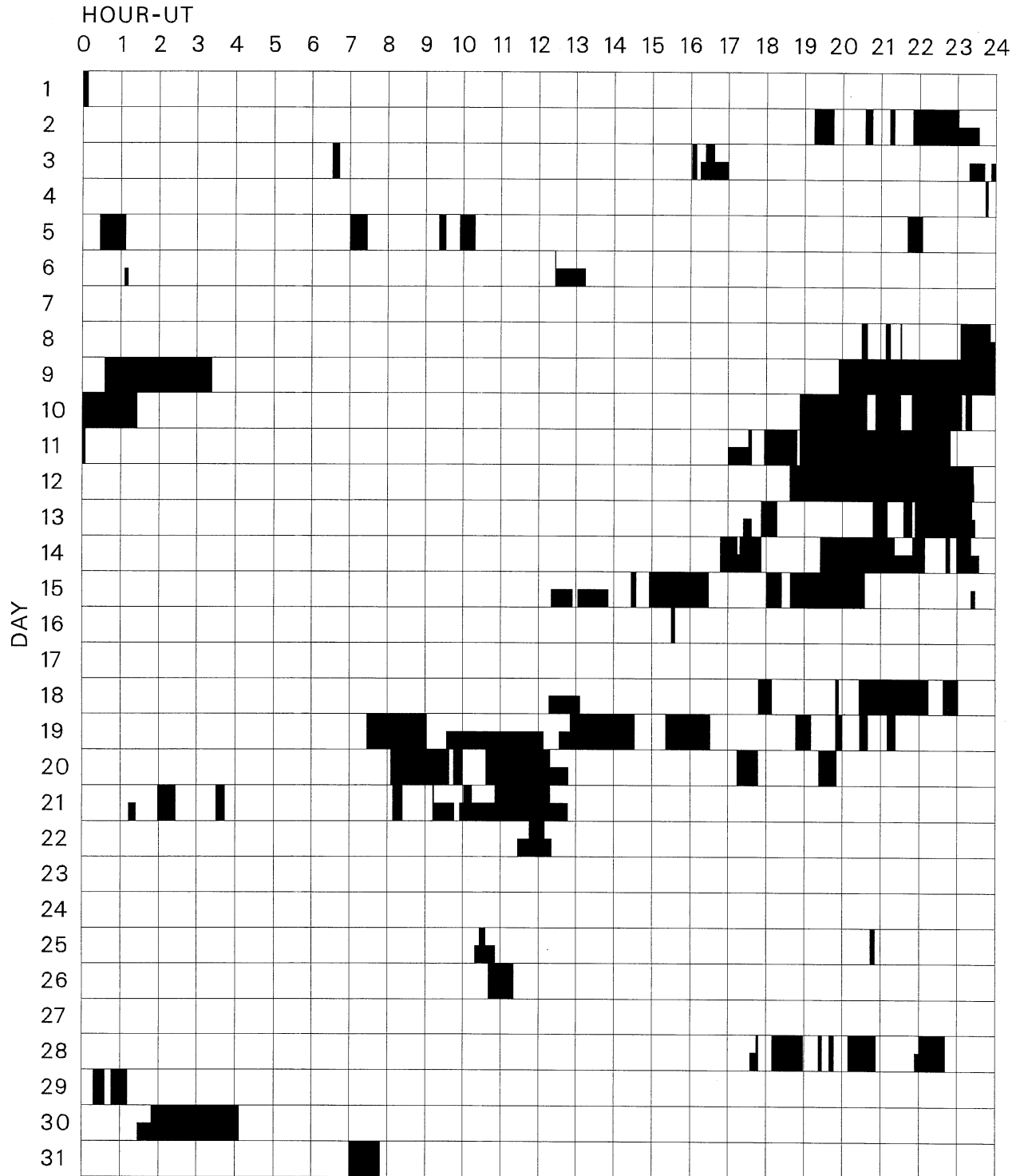
- | | |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in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

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

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INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

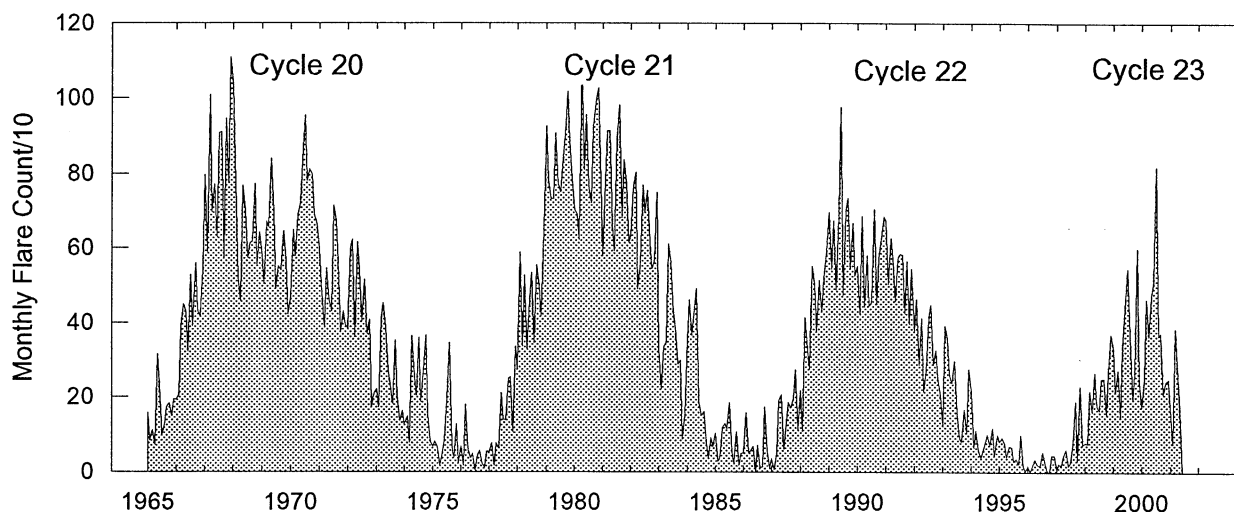
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Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with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

Holloman	Urumqi	Learmonth	Ramey	San Vito
Kanzelhoehe	Mitaka	Voroshilov		

Monthly Counts of Grouped Solar Flares Jan 1965 - May 2001



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164								1055

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

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Outstanding Occurrences

MAY 2001

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	280	CUBA	44 NS	1330.0E		150.0D		17.0		
	235	CUBA	44 NS	1330.0E		150.0D		7.0		
	204	IZMI	42 SER	0603.1	0603.4	21.8	30.0			
	204	IZMI	7 C	0605.6	0605.6	0.1	10.0			
	204	IZMI	41 F	0730.5	0730.6	0.3	16.0			
	204	IZMI	41 F	0916.6	0916.7	0.2	8.0			
	2840	PEKG	3 S	0957.0	1001.2	12.0	33.6			
	3000	IZMI	7 C	1000.2	1001.4	2.9	42.0	10.0		
	2695	SVTO	8 S	1001.0	1001.0	U	27.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1001.0	1001.0	U	61.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1001.0	1001.0	U	27.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1021.9	1021.9	0.2	14.0			
	204	IZMI	41 F	1029.6	1029.6	0.2	60.0			
	245	SGMR	8 S	1437.0	1437.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1437.0	1437.0	1.0	120.0			QL=4 ST=2 TYP=3
	280	CUBA	7 C	1437.1	1437.5	2.3		48.0		
	235	CUBA	7 C	1437.1	1437.5	2.3				
	2800	PENT	20 GRF	1442.0	1522.0	61.0	13.0			
	245	SGMR	8 S	1819.0	1819.0	2.0	200.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1853.0	1907.0	40.0U	118.0			
	4995	SGMR	4 S/F	1901.0	1907.0	21.0	390.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1903.0	1908.0	14.0	360.0			QL=4 ST=2 TYP=3
	8800	PALE	48 C	1904.0	1912.0	17.0	350.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1904.0	1912.0	18.0	300.0			QL=4 ST=2 TYP=8
	2695	PALE	20 GRF	1905.0	1912.0	26.0	150.0			QL=4 ST=2 TYP=2
	15400	PALE	48 C	1906.0	1907.0	8.0	170.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1906.0	1912.0	16.0	170.0			QL=4 ST=2 TYP=8
	2695	SGMR	20 GRF	1906.0	1907.0	16.0	110.0			QL=4 ST=2 TYP=2
	1415	SGMR	4 S/F	1911.0	1911.0	11.0	47.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2017.0	2018.0	1.0	300.0			0
245	PALE	49 GB	2017.0	2018.0	4.0	920.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	2017.0	2017.0	1.0	830.0			QL=4 ST=2 TYP=6	
02	204	IZMI	43 NS	1022.8		97.2D		10.0		
	127	TORN	43 NS	1100.0		240.0U		4.0		V=1,UNCERTAIN
	280	CUBA	44 NS	1300.0E		240.0D		14.0		
	235	CUBA	44 NS	1300.0E		240.0D		8.0		
	2800	PENT	4 S/F	0027.0	0036.0	20.0	90.0			
	2840	PEKG	3 S	0029.0	0036.1	20.0	110.1			
	500	HIRA	8 S	0031.0	0032.0	2.0	40.0			0
	2800	HIRA	3 S	0032.0	0036.0	9.0	80.0			0
	4995	LEAR	4 S/F	0033.0	0036.0	6.0	210.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0034.0	0036.0	4.0	82.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0035.0	0036.0	1.0	55.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0035.0	0036.0	1.0	25.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0120.0	0120.0	1.0	20.0			0
	245	LEAR	8 S	0120.0	0120.0	U	58.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	0624.0	0630.9	37.0	88.3			
	2950	GORK	46 C	0627.6	0630.2	13.0	65.0			
	2950	GORK	46 C	0627.6	0630.9		80.0			
	3000	IZMI	45 C	0627.8	0630.8	61.7	93.0			
	2800	HIRA	4 S/F	0628.0	0631.0	6.0	80.0			0
	4995	LEAR	4 S/F	0628.0	0630.0	5.0	91.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0628.0	0629.0	9.0	93.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0628.7	0628.8	2.9	72.0			
	200	HIRA	8 S	0629.0	0630.0	1.0	30.0			0
	2695	LEAR	8 S	0629.0	0630.0	2.0	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0629.0	0630.0	2.0	26.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0629.0	0630.0	2.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0629.0	0630.0	2.0	42.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0951.4	0951.7	0.5	8.0			
	204	IZMI	7 C	0954.1	0954.1	0.1	17.0			
	245	SVTO	8 S	0957.0	0957.0	U	73.0			QL=4 ST=2 TYP=3
410	SVTO	8 S	0957.0	0957.0	U	82.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	0957.0	0957.0	U	85.0			QL=4 ST=2 TYP=3	
204	IZMI	7 C	0957.3	0957.4	0.4	71.0				
410	SGMR	8 S	1041.0	1041.0	2.0	110.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1041.0	1041.0	1.0	240.0			QL=4 ST=2 TYP=3	
204	IZMI	7 C	1100.5	1100.5	0.1	14.0				

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Outstanding Occurrences

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M A Y 2 0 0 1

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	PALE	8 S	1747.0	1747.0		U	95.0		QL=4 ST=2 TYP=3
		SGMR	8 S	1747.0	1747.0		U	66.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	1753.0	1754.0	1.0		92.0		QL=4 ST=2 TYP=3
		SGMR	8 S	1753.0	1753.0	1.0		64.0		QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1931.0	1931.8	3.0		8.0	4.0	
	245	PALE	8 S	1946.0	1946.0		U	89.0		QL=4 ST=2 TYP=3
		SGMR	8 S	1946.0	1946.0		U	63.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	2003.0	2003.0	1.0		170.0		QL=4 ST=2 TYP=3
	410	PALE	8 S	2003.0	2005.0	2.0		48.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	2003.0	2003.0	1.0		100.0		QL=4 ST=2 TYP=3
	200	HIRA	8 S	2004.0	2004.0	1.0		40.0		0
	9500	CUBA	1 S	2144.0	2144.5	1.5		9.0	4.0	
03	204	IZMI	44 NS	0600.0E		150.0D		60.0		
	204	IZMI	44 NS	0830.0E		210.0D		20.0		
	127	TORN	44 NS	0900.0E		250.0D		8.0		V=1,DISTURBED
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	200	HIRA	8 S	0024.0	0025.0	1.0		15.0		0
	500	HIRA	8 S	0034.0	0035.0	1.0		30.0		WR
	200	HIRA	8 S	0332.0	0332.0	1.0		35.0		0
	3000	IZMI	20 GRF	0817.0	0835.7	23.2		6.0	2.0	
	245	LEAR	8 S	0824.0	0824.0	1.0		110.0		QL=2 ST=2 TYP=3
	245	SVTO	8 S	0824.0	0824.0	2.0		120.0		QL=4 ST=2 TYP=3
	204	IZMI	46 C	0824.4	0824.9	0.7		134.0		
	6700	CUBA	20 GRF	1946.0	1954.0	48.0		8.0	4.0	OOL
	245	PALE	8 S	2246.0	2247.0	1.0		69.0		QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2246.0	2247.0	8.0		76.0		QL=4 ST=2 TYP=3
04	245	LEAR	43 NS	0404.0	0406.0	16.0		64.0		QL=2 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		45.0		
	127	TORN	44 NS	0630.0E		510.0D		40.0		V=2,DISTURBED
	280	CUBA	44 NS	1300.0E		530.0D		22.0		
	235	CUBA	44 NS	1300.0E		530.0D		16.0		
	245	LEAR	8 S	0136.0	0136.0	1.0		61.0		QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0622.9	0622.9	0.1		61.0		
	204	IZMI	7 C	0737.8	0737.9	0.2		83.0		
	200	HIRA	8 S	0738.0	0738.0	1.0		30.0		WL
	3000	IZMI	7 C	1117.7	1118.5	1.7		9.0	3.0	
	2800	PENT	40 F	1428.0	1457.0	51.0		8.0		
	245	SGMR	8 S	1640.0	1641.0	2.0		53.0		QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1817.0	1858.0	158.0		16.0	8.0	8L
	2800	PENT	21 GRF	1833.0	1917.0	58.0		8.0		
	200	HIRA	8 S	2055.0	2055.0	1.0		20.0		0
245	SGMR	8 S	2055.0	2055.0		U	67.0		QL=4 ST=2 TYP=3	
05	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0740.0E		130.0D		20.0		V=1
	280	CUBA	44 NS	1300.0E		320.0D		15.0		
	235	CUBA	44 NS	1300.0E		320.0D		10.0		
	2840	PEKG	20 GRF	0210.0	0216.0	11.0		5.1		
	2840	PEKG	1 S	0455.0	0457.9	5.0		7.4		
	2950	GORK	1 S	0503.1	0503.6	0.9		9.1		
	204	IZMI	7 C	0620.9	0621.0	0.3		35.0		
	200	HIRA	8 S	0621.0	0621.0	1.0		20.0		0
	204	IZMI	7 C	0631.1	0631.2	0.3		28.0		
	2950	GORK	21 GRF	0837.0	0850.3	13.3		30.0		
	2840	PEKG	20 GRF	0839.0	0851.3	41.0		33.0		
	3000	IZMI	45 C	0843.3	0851.2U	19.5		36.0U		
	2950	GORK	42 SER	0850.9	0851.2	2.1		8.2		
	2950	GORK	42 SER	0850.9	0852.4			5.5		
	33	UPIC	42 SER	0852.0	0903.5	37.0				
	204	IZMI	41 F	0858.7	0858.9	0.7		12.0		
	204	IZMI	7 C	1116.1	1116.2	0.3		11.0		
	204	IZMI	7 C	1125.4	1125.5	0.2		11.0		
	410	SVTO	8 S	1127.0	1127.0	1.0		100.0		QL=4 ST=2 TYP=3
245	SGMR	8 S	1407.0	1407.0		U	68.0		QL=4 ST=2 TYP=3	
245	SVTO	8 S	1407.0	1407.0		U	68.0		QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1802.0	1813.0	90.0U		13.0			

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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		
05	6700	CUBA	20	GRF	1809.0	1817.0	117.0	14.0	7.0	8R
		9500	CUBA	20	GRF	1811.0	1822.0U	117.0	11.0	5.0
	200	HIRA	8	S	2318.0	2318.0	1.0	15.0		0
06	127	TORN	44	NS	0940.0E		190.0D		7.0	V=0
	235	CUBA	44	NS	1300.0E		530.0D		6.0	
	200	HIRA	8	S	0004.0	0004.0	1.0	30.0		0
	200	HIRA	8	S	0652.0	0652.0	1.0	10.0		MR
	200	HIRA	8	S	0748.0	0749.0	1.0	5.0		0
	204	IZMI	42	SER	0748.1	0748.3	0.3	21.0		
	2950	GORK	1	S	1047.6	1048.0	1.7	4.3		
	3000	IZMI	5	S	1047.6	1048.2	4.3	7.0	2.0	
3000	IZMI	5	S	1143.2	1144.0	3.5	9.0	4.0		
07	280	CUBA	44	NS	1300.0E		530.0D		14.0	
	235	CUBA	44	NS	1300.0E		530.0D		6.0	
	2840	PEKG	1	S	0232.0	0233.9	5.0	6.5		
	410	SVTO	8	S	0445.0	0446.0	1.0	67.0		QL=4 ST=2 TYP=3
	2800	PENT	24	R	1525.0	1556.0	67.0U	7.0		
	245	SGMR	8	S	1629.0	1629.0	U	120.0		QL=4 ST=2 TYP=3
	410	SGMR	8	S	1629.0	1629.0	U	52.0		QL=4 ST=2 TYP=3
	245	SVTO	8	S	1629.0	1629.0	U	110.0		QL=4 ST=2 TYP=3
	410	SVTO	8	S	1629.0	1629.0	U	58.0		QL=4 ST=2 TYP=3
	245	SGMR	8	S	1650.0	1650.0	U	100.0		QL=4 ST=2 TYP=3
245	SVTO	8	S	1650.0	1650.0	U	100.0		QL=4 ST=2 TYP=3	
08	280	CUBA	44	NS	1300.0E		530.0D		12.0	
	235	CUBA	44	NS	1300.0E		530.0D		5.0	
	2800	HIRA	29	PBI		0055.0		40.0		0
	2800	PENT	29	PBI	0035.0	0051.0	75.0	43.0		
	2840	PEKG	45	C	0036.0	0047.7	41.0	30.4		
	2800	HIRA	7	C	0040.0	0051.0	15.0	40.0		0
	204	IZMI	7	C	0721.8	0722.0	0.3	24.0		
	200	HIRA	8	S	0722.0	0722.0	1.0	10.0		0
	204	IZMI	41	F	0728.7	0728.8	0.5	14.0		
	245	SVTO	8	S	1205.0	1205.0	1.0	67.0		QL=4 ST=2 TYP=3
2800	PENT	21	GRF	1608.0	1618.0	24.0U	3.0			
09	280	CUBA	44	NS	1300.0E		530.0D		13.0	
	235	CUBA	44	NS	1300.0E		530.0D		6.0	
	204	IZMI	42	SER		0655.6	2.5	48.0		
	410	SVTO	8	S	0815.0	0816.0	1.0	160.0		QL=4 ST=3 TYP=3
	410	LEAR	8	S	0816.0	0816.0	U	72.0		QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1749.0	1752.0	33.0U	20.0		
	410	PALE	4	S/F	1751.0	1752.0	3.0	110.0		QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1752.0	1752.0	1.0	13.0	6.0	19L
	245	PALE	8	S	1752.0	1752.0	2.0	90.0		QL=4 ST=2 TYP=3
	245	SGMR	8	S	1752.0	1752.0	U	61.0		QL=4 ST=2 TYP=3
410	SGMR	8	S	1752.0	1752.0	1.0	73.0		QL=4 ST=2 TYP=3	
9500	CUBA	1	S	1752.0	1752.2	0.8	10.0	5.0		
10	204	IZMI	43	NS	1137.0		23.0D		25.0	
	280	CUBA	44	NS	1300.0E		530.0D		14.0	
	235	CUBA	44	NS	1300.0E		530.0D		6.0	
	4995	LEAR	8	S	0246.0	0246.0	U	30.0		QL=4 ST=2 TYP=3
	500	HIRA	7	C	0349.0	0353.0	7.0	40.0		0
	200	HIRA	8	S	0429.0	0429.0	1.0	5.0		0
	500	HIRA	8	S	0446.0	0447.0	1.0	10.0		0
	200	HIRA	8	S	0446.0	0446.0	1.0	160.0		0
	204	IZMI	41	F	0721.7	0722.3	0.9	13.0		
	245	SVTO	8	S	0933.0	0933.0	U	110.0		QL=4 ST=3 TYP=3
	204	IZMI	41	F	0940.7	0940.9	0.7	106.0		
	204	IZMI	42	SER	0943.8	0944.9	1.1	26.0		
	3000	IZMI	20	GRF	1020.7	1038.2	66.7	11.0	5.0	
	2800	PENT	41	F	1440.0	1455.0	65.0	16.0		
9500	CUBA	2	S/F	1454.6	1455.5	2.2	12.0	6.0		
6700	CUBA	2	S/F	1454.6	1455.5	2.7	13.0	6.0	26L	
500	HIRA	8	S	2103.0	2103.0	1.0	70.0		0	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
11	204	IZMI	44 NS	0600.0E		30.0D		10.0		
	204	IZMI	43 NS	0924.0		156.0D		10.0		
	280	CUBA	44 NS	1500.0E		410.0D		18.0		
	235	CUBA	44 NS	1500.0E		410.0D		8.0		
	200	HIRA	8 S	0349.0	0349.0	1.0	15.0		0	
	204	IZMI	25 R	0630.0		64.0		36.0		
	900	GORK	21 GRF	0635.0	0751.0	128.0	13.0			
	900	GORK	46 C	0642.5	0645.2	7.2	13.0			
	900	GORK	46 C	0642.5	0648.3		16.0			
	900	GORK	40 F	0653.8	0657.6	4.6	11.0			
	900	GORK	46 C	0705.3	0706.5	3.6	9.8			
	900	GORK	46 C	0705.3	0707.6		22.0			
	500	HIRA	4 S/F	0712.0	0716.0	8.0	50.0			WR
	900	GORK	4 S/F	0712.0	0716.3	6.5	260.0			
	245	LEAR	8 S	0713.0	0713.0	1.0	45.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0713.0	0713.0	2.0	27.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0713.0	0713.0	2.0	27.0			QL=4 ST=3 TYP=3
	410	SVTO	4 S/F	0713.0	0715.0	4.0	22.0			QL=4 ST=3 TYP=3
	410	SVTO	4 S/F	0713.0	0715.0	7.0	22.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0713.0	0715.0	7.0	22.0			QL=4 ST=3 TYP=3
	1415	SVTO	4 S/F	0713.0	0715.0	3.0	33.0			QL=4 ST=3 TYP=3
	1415	SVTO	4 S/F	0713.0	0715.0	7.0	33.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0713.0	0715.0	7.0	33.0			QL=4 ST=3 TYP=3
	610	LEAR	4 S/F	0714.0	0716.0	3.0	130.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0714.0	0716.0	3.0	140.0			QL=4 ST=3 TYP=3
	204	IZMI	42 SER	0920.3	0920.4	0.4	15.0			
	204	IZMI	41 F	0921.1	0921.1	0.3	34.0			
	204	IZMI	41 F	1031.8	1031.9	0.3	12.0			
	245	SVTO	48 C	1222.0	1256.0	108.0	6200.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1223.0	1256.0	106.0	6800.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1226.0	1256.0	103.0	540.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1226.0	1257.0	100.0	1300.0			QL=4 ST=2 TYP=8
	33	UPIC	46 C	1432.0	1432.5	6.0				
6700	CUBA	21 GRF	1919.0	2022.0	116.0D	6.0	3.0		18R SUNSET	
610	SGMR	4 S/F	1941.0	1942.0	5.0	90.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	2019.8	2020.4	1.8	6.0	3.0		00L	
200	HIRA	8 S	2031.0	2031.0	1.0	10.0			WR	
245	SGMR	8 S	2103.0	2103.0	U	72.0			QL=4 ST=2 TYP=3	
2840	PEKG	5 S	2318.0	2320.8	5.0	23.8				
2800	PENT	1 S	2319.0	2320.0	2.0	19.0				
500	HIRA	8 S	2320.0	2320.0	1.0	55.0			0	
610	LEAR	8 S	2320.0	2320.0	U	150.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2320.0	2320.0	U	190.0			QL=4 ST=2 TYP=3	
12	204	IZMI	44 NS	0600.0E		360.0D		20.0		
	127	TORN	44 NS	1100.0E		240.0D		20.0		V=2
	245	SGMR	43 NS	1301.0	1308.0	109.0	100.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1310.0E		520.0D		44.0		
	235	CUBA	44 NS	1310.0E		520.0D		24.0		
	245	SVTO	43 NS	1317.0	1337.0	40.0	100.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	1722.0	1743.0	210.0	99.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1747.0	1920.0	173.0	370.0			QL=4 ST=2 TYP=1
	2800	PENT	40 F	0036.0	0039.0	6.0	16.0			
	2800	PENT	47 GB	0036.0E	0036.0U	1.0U	50.0U			
	2840	PEKG	45 C	0038.0	0039.4	4.0	23.4			
	610	LEAR	49 GB	0039.0	0039.0	1.0	720.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0039.0	0040.0	1.0	40.0			QL=4 ST=2 TYP=3
	610	PALE	49 GB	0039.0	0039.0	U	900.0			QL=4 ST=2 TYP=6
	200	HIRA	47 GB	0226.0	0227.0	1.0	715.0			0
	245	LEAR	49 GB	0226.0	0226.0	U	2900.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0226.0	0226.0	U	690.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0226.0	0226.0	1.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0226.0	0226.0	1.0	890.0			QL=4 ST=2 TYP=6
	2950	GORK	21 GRF	0453.5	0501.4	18.5	10.0			
	2840	PEKG	5 S	0458.0	0500.2	5.0	16.6			
9100	GORK	3 S	0459.8	0500.2	0.9	23.0				
2950	GORK	3 S	0459.8	0500.2	1.4	13.0				
200	HIRA	8 S	0535.0	0536.0	1.0	15.0			0	
245	LEAR	8 S	0637.0	0637.0	1.0	59.0			QL=4 ST=2 TYP=3	

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MAY 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
12	245	SVTO	8 S	0637.0	0637.0	2.0	60.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0731.2	0731.8	0.7	41.0			
	200	HIRA	8 S	0743.0	0743.0	1.0	40.0			0
	204	IZMI	7 C	0743.4	0743.5	0.3	101.0			
	204	IZMI	7 C	0849.3	0849.3	0.1	26.0			
	204	IZMI	42 SER	1052.6	1052.8	0.3	43.0			
	245	SGMR	8 S	1103.0	1103.0	2.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1103.0	1103.0	2.0	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1103.0	1103.0	1.0	190.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1103.6	1103.8	1.9	240.0			
	245	SVTO	8 S	1109.0	1111.0	2.0	130.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1110.5	1111.0	3.0				
	245	SGMR	8 S	1111.0	1111.0		110.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	1111.0	1111.3	0.6	833.0			
	245	SGMR	8 S	1243.0	1243.0	2.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1243.0	1243.0	1.0	58.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1244.0	1245.0	2.0				
	245	SVTO	8 S	1301.0	1301.0		91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1304.0	1304.0	1.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	21 GRF	1404.0	1529.0	112.0	11.0			
	9500	CUBA	20 GRF	1410.0	1437.0	71.0	11.0	5.0		
	6700	CUBA	20 GRF	1411.0	1427.0	88.0	7.0	3.0		11L
	6700	CUBA	21 GRF	1711.0	1726.0	162.0	11.0	5.0		17R
	9500	CUBA	21 GRF	1715.0	1724.0	78.0	11.0	5.0		
	9500	CUBA	2 S/F	1715.0	1721.3	6.4	41.0	20.0		
	6700	CUBA	2 S/F	1715.0	1721.3	10.5	73.0	36.0		27R
	33	UPIC	45 C	1716.0	1716.5	1.5				
	410	SGMR	48 C	1717.0	1721.0	6.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1717.0	1721.0	6.0	84.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1717.0	1718.0	6.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1718.0	1721.0	5.0	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1718.0	1718.0	5.0	34.0			QL=4 ST=2 TYP=3
	2695	SVTO	48 C	1718.0	1718.0	3.0	50.0			QL=2 ST=2 TYP=8
	4995	SVTO	48 C	1718.0	1721.0	3.0	62.0			QL=2 ST=2 TYP=8
	8800	SVTO	48 C	1719.0	1721.0	2.0	53.0			QL=2 ST=2 TYP=8
	245	SGMR	4 S/F	1720.0	1721.0	3.0	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1721.0	1721.0	2.0	11.0			QL=4 ST=2 TYP=3
	2800	PENT	21 GRF	1735.0	1813.0	46.0	10.0			
	2800	PENT	29 PBI	1908.0	1912.0	17.0	6.0			
	2840	PEKG	45 C	2323.0	2336.9		154.3			
	2840	PEKG	45 C	2323.0	2343.4	57.0	258.0			
	8800	PALE	49 GB	2326.0	2327.0	5.0	520.0			QL=4 ST=2 TYP=6
	15400	PALE	8 S	2326.0	2327.0	2.0	230.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2326.0	2327.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	2326.0	2327.0	14.0	430.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	2326.0	2327.0	15.0	480.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2326.0	2327.0	34.0	400.0			QL=4 ST=1 TYP=3
	2800	HIRA	7 C	2326.0	2337.0	51.0	185.0			0
	500	HIRA	8 S	2327.0	2327.0	3.0	480.0			0
	200	HIRA	8 S	2327.0	2327.0	1.0	1840.0			0
245	PALE	49 GB	2327.0	2327.0	1.0	2400.0			QL=4 ST=2 TYP=6	
410	PALE	49 GB	2327.0	2327.0	1.0	12000.0			QL=4 ST=2 TYP=6	
610	PALE	49 GB	2327.0	2327.0	2.0	540.0			QL=4 ST=2 TYP=6	
1415	PALE	8 S	2327.0	2327.0	2.0	73.0			QL=4 ST=2 TYP=3	
245	LEAR	49 GB	2327.0	2327.0	14.0	2500.0			QL=4 ST=2 TYP=6	
410	LEAR	49 GB	2327.0	2327.0	14.0	4900.0			QL=4 ST=2 TYP=6	
610	LEAR	49 GB	2327.0	2327.0	14.0	520.0			QL=4 ST=2 TYP=6	
2695	LEAR	4 S/F	2327.0	2336.0	13.0	230.0			QL=4 ST=2 TYP=3	
15400	LEAR	4 S/F	2327.0	2327.0	14.0	160.0			QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	2328.0	2328.0	13.0	37.0			QL=4 ST=2 TYP=3	
1415	PALE	48 C	2331.0	2336.0	8.0	160.0			QL=4 ST=2 TYP=8	
610	PALE	4 S/F	2331.0	2333.0	7.0	240.0			QL=4 ST=2 TYP=3	
2695	PALE	4 S/F	2331.0	2336.0	8.0	190.0			QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2331.0	2336.0	9.0	350.0			QL=4 ST=2 TYP=3	
8800	PALE	4 S/F	2331.0	2336.0	9.0	360.0			QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	2331.0	2336.0	9.0	210.0			QL=4 ST=2 TYP=3	
500	HIRA	7 C	2332.0	2335.0	70.0	245.0			WR	
200	HIRA	27 RF	2332.0	0008.0	98.0	145.0			0	
410	PALE	48 C	2333.0	2337.0	7.0	490.0			QL=4 ST=2 TYP=8	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
12	245	PALE	48 C	2337.0	2343.0	6.0	190.0			QL=4 ST=2 TYP=8	
	1415	LEAR	4 S/F	2341.0	2349.0	9.0	59.0			QL=4 ST=3 TYP=3	
	245	LEAR	8 S	2342.0	2343.0	2.0	140.0			QL=4 ST=3 TYP=3	
	2695	LEAR	8 S	2342.0	2343.0	2.0	100.0			QL=4 ST=3 TYP=3	
	4995	LEAR	8 S	2342.0	2343.0	1.0	46.0			QL=4 ST=3 TYP=3	
	245	PALE	48 C	2343.0	2347.0	4.0	190.0			QL=4 ST=2 TYP=8	
	410	PALE	8 S	2343.0	2343.0		27.0	U		QL=4 ST=2 TYP=3	
	2695	PALE	8 S	2343.0	2343.0		56.0	U		QL=4 ST=2 TYP=3	
	4995	PALE	8 S	2343.0	2343.0	1.0	33.0			QL=4 ST=2 TYP=3	
	8800	PALE	8 S	2343.0	2343.0		24.0	U		QL=4 ST=2 TYP=3	
	410	LEAR	20 GRF	2346.0	2354.0	29.0	270.0			QL=4 ST=2 TYP=2	
	245	LEAR	20 GRF	2346.0	0007.0	35.0	290.0			QL=4 ST=3 TYP=2	
	1415	LEAR	48 C	2347.0	0007.0	28.0	350.0			QL=4 ST=2 TYP=8	
	2695	LEAR	48 C	2347.0	0002.0	28.0	250.0			QL=4 ST=2 TYP=8	
	610	LEAR	20 GRF	2347.0	2351.0	28.0	140.0			QL=4 ST=2 TYP=2	
	1415	PALE	48 C	2347.0	0007.0	25.0	450.0			QL=4 ST=3 TYP=8	
	2695	PALE	48 C	2347.0	0002.0	24.0	190.0			QL=4 ST=3 TYP=8	
	610	PALE	20 GRF	2347.0	2351.0	26.0	150.0			QL=4 ST=2 TYP=2	
	610	PALE	20 GRF	2347.0	2351.0	26.0	150.0			QL=4 ST=3 TYP=2	
	4995	PALE	20 GRF	2347.0	2354.0	20.0	73.0			QL=4 ST=3 TYP=2	
	410	PALE	48 C	2347.0	2354.0	32.0	440.0			QL=4 ST=3 TYP=8	
	245	PALE	20 GRF	2347.0	0008.0	32.0	300.0			QL=4 ST=3 TYP=2	
	15400	PALE	8 S	2349.0	2349.0		28.0	U		QL=4 ST=3 TYP=3	
	8800	PALE	4 S/F	2349.0	2353.0	8.0	46.0			QL=4 ST=3 TYP=3	
	4995	LEAR	4 S/F	2350.0	2354.0	22.0	79.0			QL=4 ST=2 TYP=3	
	8800	LEAR	4 S/F	2353.0	2354.0	14.0	48.0			QL=4 ST=2 TYP=3	
	13	245	LEAR	43 NS	0015.0	0015.0	1425.0	100.0			QL=4 ST=1 TYP=1
		245	PALE	43 NS	0019.0	0031.0	23.0	130.0			QL=4 ST=2 TYP=1
		245	LEAR	43 NS	0038.0	0040.0	11.0	93.0			QL=4 ST=2 TYP=1
		245	LEAR	43 NS	0333.0	0034.0	27.0	150.0			QL=4 ST=2 TYP=1
245		PALE	43 NS	0336.0	0340.0	6.0	70.0			QL=4 ST=2 TYP=1	
204		IZMI	43 NS	0713.0		287.0D		20.0			
127		TORN	44 NS	1010.0E		230.0D		3.0		V=1	
280		CUBA	44 NS	1300.0E		530.0D		21.0			
235		CUBA	44 NS	1300.0E		530.0D		9.0			
245		LEAR	20 GRF	0024.0	0030.0	14.0	130.0			QL=4 ST=2 TYP=2	
410		PALE	8 S	0026.0	0026.0	1.0	46.0			QL=4 ST=2 TYP=3	
610		LEAR	4 S/F	0028.0	0029.0	5.0	130.0			QL=4 ST=2 TYP=3	
1415		LEAR	4 S/F	0028.0	0029.0	4.0	100.0			QL=4 ST=2 TYP=3	
610		PALE	4 S/F	0028.0	0029.0	3.0	160.0			QL=4 ST=2 TYP=3	
1415		PALE	4 S/F	0028.0	0029.0	4.0	130.0			QL=4 ST=2 TYP=3	
410		LEAR	8 S	0029.0	0029.0	1.0	24.0			QL=4 ST=2 TYP=3	
245		LEAR	8 S	0121.0	0121.0		65.0	U		QL=4 ST=2 TYP=3	
8800		LEAR	48 C	0255.0	0308.0	18.0	240.0			QL=4 ST=2 TYP=8	
2840		PEKG	45 C	0258.0	0308.8	32.0	110.7				
2695		LEAR	48 C	0300.0	0308.0	10.0	220.0			QL=4 ST=2 TYP=8	
4995		LEAR	48 C	0300.0	0308.0	10.0	210.0			QL=4 ST=2 TYP=8	
4995		PALE	48 C	0300.0	0308.0	10.0	220.0			QL=4 ST=2 TYP=8	
15400		LEAR	48 C	0301.0	0308.0	9.0	100.0			QL=4 ST=2 TYP=8	
1415		LEAR	8 S	0301.0	0301.0	1.0	26.0			QL=4 ST=2 TYP=3	
1415		PALE	8 S	0301.0	0302.0	1.0	25.0			QL=4 ST=2 TYP=3	
2695		PALE	8 S	0301.0	0301.0	1.0	35.0			QL=4 ST=2 TYP=3	
15400		PALE	8 S	0301.0	0301.0	1.0	50.0			QL=4 ST=2 TYP=3	
8800		PALE	4 S/F	0301.0	0301.0	4.0	120.0			QL=4 ST=2 TYP=3	
2800		HIRA	7 C	0301.0	0309.0	12.0	105.0			0	
500		HIRA	47 GB	0302.0	0302.0	1.0	1075.0			0	
245	LEAR	48 C	0302.0	0303.0	8.0	2200.0			QL=4 ST=2 TYP=8		
410	LEAR	48 C	0302.0	0307.0	8.0	2300.0			QL=4 ST=2 TYP=8		
610	LEAR	49 GB	0302.0	0302.0	8.0	2200.0			QL=4 ST=2 TYP=6		
410	PALE	48 C	0302.0	0307.0	8.0	1800.0			QL=4 ST=2 TYP=8		
610	PALE	49 GB	0302.0	0302.0	8.0	2000.0			QL=4 ST=2 TYP=6		
200	HIRA	47 GB	0303.0	0308.0	5.0	1470.0			0		
245	PALE	48 C	0303.0	0303.0	7.0	2000.0			QL=4 ST=2 TYP=8		
500	HIRA	47 GB	0303.0	0308.0	41.0	555.0			0		
200	HIRA	7 C	0307.0	0308.0	40.0	175.0			0		
245	LEAR	20 GRF	0315.0	0318.0	18.0	190.0			QL=4 ST=2 TYP=2		
245	PALE	20 GRF	0316.0	0318.0	20.0	160.0			QL=4 ST=2 TYP=2		
410	LEAR	4 S/F	0317.0	0321.0	13.0	450.0			QL=4 ST=2 TYP=3		

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MAY 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
13	410	PALE	49 GB	0317.0	0321.0	19.0	560.0			QL=4 ST=2 TYP=6	
	610	LEAR	4 S/F	0318.0	0320.0	5.0	160.0			QL=4 ST=2 TYP=3	
	610	PALE	4 S/F	0318.0	0321.0	5.0	120.0			QL=4 ST=2 TYP=3	
	1415	PALE	8 S	0320.0	0320.0	U	23.0			QL=4 ST=2 TYP=3	
	500	HIRA	7 C	0358.0	0402.0	17.0	55.0			0	
	200	HIRA	42 SER	0535.0	0535.0	5.0	25.0			0	
	2950	GORK	20 GRF	0726.0	0816.6	123.0	16.0				
	9100	GORK	20 GRF	0814.9	0818.3	13.3	11.0				
	900	GORK	41 F	0816.1	0817.6	4.1	7.0				
	204	IZMI	41 F	0824.9	0825.3	0.8	51.0				
	200	HIRA	8 S	0825.0	0826.0	1.0	10.0			0	
	245	SVTO	8 S	0838.0	0838.0	U	60.0			QL=4 ST=2 TYP=3	
	204	IZMI	25 R	1114.0		46.0D		30.0			
	6700	CUBA	20 GRF	1249.0	1405.0	143.0	26.0	13.0			4L
	2800	PENT	29 PBI	1353.0	1403.0	64.0	13.0				
	245	SGMR	4 S/F	1404.0	1405.0	3.0	57.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1405.0	1405.0	U	58.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1828.0	1829.0	1.0	100.0				QL=4 ST=2 TYP=3
	2800	PENT	24 R	1911.0	1915.0	21.0U	4.0				
	6700	CUBA	21 GRF	1914.0	2053.0	146.0D	15.0	7.0			2R SUNSET
9500	CUBA	1 S	1915.0	1915.8	2.0	13.0	6.0				
6700	CUBA	1 S	1915.0	1915.8	2.2	13.0	6.0			28R	
2800	PENT	7 C	2046.0	2101.0		11.0					
14	204	IZMI	44 NS	0600.0E		110.0D		20.0			
	235	CUBA	44 NS	1300.0E		530.0D		7.0			
	280	CUBA	44 NS	1310.0E		520.0D		16.0			
	2840	PEKG	5 S	0321.0	0323.8	5.0	13.9				
	200	HIRA	8 S	0337.0	0338.0	1.0	10.0			0	
	245	LEAR	8 S	0429.0	0429.0	U	59.0			QL=4 ST=2 TYP=3	
	204	IZMI	41 F	1133.7	1133.8	0.3	28.0				
	33	UPIC	48 C	1332.5	1334.0	7.0					
	33	UPIC	46 C	1434.0	1439.5	8.0					
	33	UPIC	4 S/F	1632.0	1632.5	1.0					
	2800	PENT	21 GRF	2129.0	2145.0	63.0U	11.0				
	200	HIRA	8 S	2148.0	2148.0	1.0	15.0			0	
	200	HIRA	8 S	2208.0	2208.0	1.0	25.0			0	
	245	PALE	8 S	2208.0	2208.0	U	360.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2208.0	2208.0	U	180.0			QL=4 ST=2 TYP=3	
	200	HIRA	8 S	2218.0	2220.0	2.0	30.0			0	
200	HIRA	8 S	2244.0	2245.0	1.0	10.0			WR		
200	HIRA	8 S	2248.0	2248.0	1.0	5.0			0		
200	HIRA	8 S	2254.0	2254.0	1.0	30.0			WR		
15	280	CUBA	44 NS	1300.0E		530.0D		16.0			
	235	CUBA	44 NS	1300.0E		530.0D		7.0			
	2840	PEKG	5 S	0255.0	0257.9	8.0	40.7			0	
	2800	HIRA	1 S	0256.0	0258.0	5.0	35.0			WL	
	500	HIRA	8 S	0257.0	0258.0	5.0	95.0				
	245	LEAR	49 GB	0300.0	0301.0	1.0	780.0			QL=4 ST=2 TYP=6	
	245	PALE	49 GB	0300.0	0301.0	2.0	1100.0			QL=4 ST=2 TYP=6	
	200	HIRA	47 GB	0301.0	0303.0	2.0	505.0			0	
	200	HIRA	8 S	0450.0	0450.0	1.0	20.0			0	
	410	LEAR	4 S/F	0454.0	0456.0	3.0	56.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0455.0	0456.0	2.0	310.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0455.0	0456.0	1.0	350.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	0455.0	0456.0	1.0	80.0			QL=4 ST=2 TYP=3	
	500	HIRA	8 S	0456.0	0456.0	1.0	60.0			0	
	200	HIRA	8 S	0456.0	0457.0	2.0	45.0			0	
	610	LEAR	8 S	0456.0	0456.0	1.0	48.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	0456.0	0456.0	U	45.0			QL=4 ST=2 TYP=3	
	33	UPIC	45 C	0456.0	0457.0	1.5					
	200	HIRA	8 S	0516.0	0516.0	1.0	50.0			0	
	204	IZMI	42 SER	0604.6	0605.5	1.1	76.0				
	200	HIRA	8 S	0605.0	0606.0	1.0	15.0			0	
	245	LEAR	4 S/F	0606.0	0607.0	3.0	290.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	0606.8	0607.6	2.9	237.0					
200	HIRA	8 S	0608.0	0608.0	1.0	45.0			0		
2840	PEKG	1 S	0917.0	0919.6	6.0	3.3					

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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		
15	9100	GORK	3 S	0919.2	0919.6	1.3	10.0			
		3000 IZMI	5 S	0919.2	0919.7	1.0	7.0	3.0		
	33	UPIC	45 C	0919.5	0920.0	1.5				
	245	SGMR	8 S	1204.0	1204.0	1.0	56.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1336.0	1336.5	1.0				
	33	UPIC	45 C	1358.0	1359.5	2.0				
	2800	PENT	29 PBI	1436.0	1442.0	43.0	5.0			
	245	PALE	8 S	1902.0	1903.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1902.0	1902.0	1.0	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1937.0	1938.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1937.0	1937.0	1.0	84.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	2121.0	2121.0	1.0	25.0			0	
16	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	500	HIRA	8 S	0639.0	0639.0	1.0	200.0			0
	200	HIRA	8 S	0740.0	0740.0	1.0	15.0			0
	204	IZMI	7 C	0740.2	0740.3	0.3	98.0			
	3000	IZMI	5 S	1039.6	1039.9	1.4	5.0	2.0		
	2800	PENT	29 PBI	1532.0	1543.0	60.0U	8.0			
	2800	PENT	1 S	1914.0	1918.0	8.0	6.0			
17	204	IZMI	43 NS	0600.0		360.0D		15.0		
	2840	PEKG	1 S	0154.0	0158.7	9.0	5.2			
	245	LEAR	8 S	0351.0	0351.0	1.0	130.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0648.4	0650.4	4.9	15.0	7.0		
	9100	GORK	45 C	0958.7	0959.3	2.1	28.0			
	9100	GORK	45 C	0958.7	0959.6		37.0			
	4995	SVTO	8 S	0959.0	0959.0	1.0	38.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0959.0	0959.0	1.0	41.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0959.4	0959.6	1.1	5.2			
	2800	PENT	29 PBI	2039.0	2045.0	113.0U	102.0			
	1415	SGMR	4 S/F	2042.0	2045.0	3.0	35.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2042.0	2045.0	8.0	87.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2042.0	2044.0	8.0	130.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	2043.0	2045.0	5.0	85.0			0
	245	SGMR	4 S/F	2043.0	2047.0	4.0	43.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2043.0	2044.0	7.0	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	2043.0	2044.0	7.0	70.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	2043.5	2044.8	2.5	116.0	58.0		6R
	410	SGMR	8 S	2045.0	2047.0	2.0	18.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	2137.0	2139.0	2.0	20.0			0
200	HIRA	8 S	2159.0	2159.0	1.0	20.0			0	
2840	PEKG	5 S	2315.0	2319.1	7.0U	46.7				
2800	HIRA	3 S	2317.0	2319.0	9.0	40.0			0	
200	HIRA	8 S	2330.0	2333.0	3.0	30.0			0	
18	204	IZMI	44 NS	0600.0E		360.0D		20.0		
	200	HIRA	8 S	0446.0	0446.0	1.0	40.0			0
	3000	IZMI	20 GRF	0631.4	0634.4	3.8	16.0	6.0		
	9100	GORK	1 S	0633.0	0634.4	3.2	11.0			
	2950	GORK	1 S	0633.2	0634.4	2.2	7.8			
	900	GORK	40 F	1020.6	1024.3	15.4	32.0			
	2800	PENT	20 GRF	1438.0	1505.0	69.0	12.0			
	200	HIRA	8 S	2016.0	2017.0	2.0	20.0			WL
19	127	TORN	44 NS	0720.0E		280.0D		5.0		V=1
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	235	CUBA	44 NS	1300.0E		530.0D		5.0		
	9100	GORK	3 S	0523.0	0523.9	2.2	14.0			
	2950	GORK	1 S	0525.3	0525.9	1.2	10.0			
	200	HIRA	47 GB	0742.0	0743.0	2.0	1180.0			0
	33	UPIC	46 C	0742.5	0744.5	3.5				
	245	LEAR	8 S	0743.0	0743.0	U	240.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0853.0	0857.3	8.0	5.7			
	33	UPIC	46 C	0855.5	0857.5	2.5				
	2840	PEKG	1 S	0934.0	0936.6	5.0	7.5			
	127	TORN	4 S/F	0941.3	0942.3	2.8	250.0	60.0		
33	UPIC	46 C	1436.5	1437.0	1.5					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
19	2800	PENT	20 GRF	2056.0	2111.0	17.0	7.0			
20	127	TORN	44 NS	0630.0E		510.0D		7.0		V=0
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	2800	PENT	29 PBI	0005.0	0014.0	50.0	10.0			
	2840	PEKG	20 GRF	0011.0	0014.2	13.0	10.7			
	2840	PEKG	1 S	0238.0	0240.9	5.0	3.7			
	2840	PEKG	3 S	0557.0	0602.7	40.0	386.1			
	2800	HIRA	3 S	0601.0	0603.0	9.0	110.0			0
	200	HIRA	47 GB	0601.0	0603.0	2.0	520.0			0
	4995	LEAR	4 S/F	0601.0	0602.0	4.0	410.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0601.0	0602.0	4.0	350.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0601.0	0602.0	2.0	270.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0601.0	0602.0	4.0	340.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0601.0	0602.0	3.0	280.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	0601.0	0604.0	12.0	45.0			0
	9100	GORK	3 S	0601.4	0602.7	3.2	220.0			
	900	GORK	4 S/F	0601.5	0603.4	2.7	260.0			
	900	GORK	4 S/F	0601.5	0603.7		210.0			
	245	LEAR	48 C	0602.0	0605.0	4.0	390.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0602.0	0602.0	1.0	48.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0602.0	0602.0	1.0	260.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0602.0	0603.0	3.0	75.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0602.0	0602.0	4.0	360.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0602.0	0605.0	5.0	460.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0602.0	0602.0	5.0	250.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0602.0	0602.0	4.0	320.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0602.0	0602.0	1078.0	200.0			QL=4 ST=1 TYP=3
	200	HIRA	47 GB	0604.0	0606.0	2.0	1220.0			0
	410	SVTO	8 S	0604.0	0604.0	1.0	41.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0604.0	0604.0	1.0	42.0			QL=4 ST=2 TYP=3
900	GORK	29 PBI	0604.2	0604.2	22.8	70.0				
33	UPIC	48 C	0608.0	0609.0	8.0					
2840	PEKG	1 S	0917.0	0920.5	6.0	5.8				
200	HIRA	8 S	0920.0	0920.0	1.0	160.0			0	
245	LEAR	8 S	0920.0	0920.0		240.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	0929.5	0931.0	2.5					
33	UPIC	46 C	1138.0	1139.0	2.0					
127	TORN	7 C	1139.0	1139.4	1.4	1200.0	180.0			
4995	SGMR	8 S	1415.0	1415.0	2.0	120.0			QL=4 ST=2 TYP=3	
6700	CUBA	22 GRF	1815.0	1840.0	67.0D	9.0	4.0		00L	
21	127	TORN	44 NS	0850.0E		260.0D		7.0		V=1
	280	CUBA	44 NS	1300.0E		510.0D		16.0		
	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	245	SGMR	43 NS	2007.0	2015.0	8.0	54.0			QL=4 ST=2 TYP=1
	2840	PEKG	45 C	0306.0	0320.1	28.0	219.1			
	500	HIRA	7 C	0313.0	0315.0	8.0	70.0			ML
	2800	HIRA	4 S/F	0313.0	0320.0	16.0	120.0			0
	200	HIRA	7 C	0313.0	0315.0	13.0	290.0			ML
	410	SGMR	49 GB	1429.0	1430.0	2.0	570.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1430.0	1430.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1430.0	1430.0	1.0	36.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1430.0	1430.0		600.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1430.0	1430.0		200.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1450.0	1458.0	48.0	13.0			
	2800	PENT	20 GRF	1733.0	1821.0	84.0	11.0			
	245	SGMR	8 S	1935.0	1936.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1951.0	1951.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1951.0	1951.0	5.0	120.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2029.0	2030.0	1.0	56.0			QL=4 ST=2 TYP=3	
2840	PEKG	1 S	2249.0	2251.5	5.0	4.9				
22	245	LEAR	49 GB	0257.0	0257.0	1.0	590.0			QL=4 ST=2 TYP=6
	200	HIRA	47 GB	0258.0	0258.0	1.0	1080.0			0
	610	SVTO	8 S	1334.0	1334.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1407.0	1407.0		63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1611.0	1612.0	1.0	54.0			QL=4 ST=2 TYP=3

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MAY 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
22	245	PALE	8 S	1754.0	1755.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1754.0	1755.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1758.0	1758.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1758.0	1758.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1946.0	1946.0	U	64.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2036.0	2036.0	1.0	15.0			0
	245	SGMR	8 S	2144.0	2145.0	1.0	62.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	2205.0	2208.0	11.0	9.5			
	200	HIRA	8 S	2221.0	2222.0	1.0	60.0			0
	245	PALE	8 S	2221.0	2221.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2221.0	2221.0	U	290.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	2240.0	2243.0	8.0	45.0			WL
	200	HIRA	4 S/F	2240.0	2244.0	10.0	70.0			0
	245	PALE	4 S/F	2241.0	2244.0	4.0	210.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2241.0	2244.0	4.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2243.0	2243.0	1.0	68.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2243.0	2243.0	U	30.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2243.0	2243.0	U	47.0			QL=4 ST=2 TYP=3
	23	245	LEAR	43 NS	0009.0	0009.0	15.0	55.0		
245		LEAR	43 NS	0149.0	0152.0	58.0	83.0			QL=4 ST=2 TYP=1
245		LEAR	43 NS	0349.0	0356.0	121.0	90.0			QL=4 ST=2 TYP=1
280		CUBA	44 NS	1300.0E		530.0D		23.0		
235		CUBA	44 NS	1300.0E		530.0D		15.0		
245		SGMR	43 NS	1725.0	1803.0	362.0	200.0			QL=4 ST=2 TYP=1
245		LEAR	8 S	0056.0	0057.0	2.0	160.0			QL=4 ST=2 TYP=3
245		LEAR	8 S	0128.0	0129.0	2.0	75.0			QL=4 ST=2 TYP=3
245		PALE	8 S	0247.0	0248.0	2.0	110.0			QL=4 ST=2 TYP=3
245		PALE	8 S	0344.0	0344.0	2.0	120.0			QL=4 ST=2 TYP=3
245		LEAR	8 S	0345.0	0345.0	U	60.0			QL=4 ST=2 TYP=3
245		PALE	8 S	0349.0	0349.0	1.0	57.0			QL=4 ST=2 TYP=3
245		LEAR	8 S	0404.0	0404.0	U	180.0			QL=4 ST=2 TYP=3
245		PALE	8 S	0404.0	0404.0	1.0	320.0			QL=4 ST=2 TYP=3
200		HIRA	8 S	0930.0	0931.0	1.0	60.0			WL
245		SVTO	8 S	0930.0	0930.0	U	270.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1033.0	1033.0	1.0	75.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1033.0	1033.0	1.0	78.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1041.0	1041.0	1.0	72.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1238.0	1238.0	U	170.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1238.0	1238.0	U	200.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1501.0	1502.0	1.0	76.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1502.0	1502.0	U	62.0			QL=4 ST=2 TYP=3
245	PALE	48 C	2005.0	2008.0	3.0	86.0			QL=4 ST=2 TYP=8	
24	245	LEAR	43 NS	0411.0	0419.0	71.0	87.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0830.0E		330.0D		8.0U		V=1, DISTURBED
	280	CUBA	44 NS	1400.0E		120.0D		47.0		
	235	CUBA	44 NS	1400.0E		120.0D		13.0		
	245	SGMR	43 NS	1456.0	1507.0	89.0	140.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1513.0	1552.0	72.0	180.0			QL=2 ST=2 TYP=1
	245	LEAR	8 S	0300.0	0300.0	U	71.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0300.0	0300.0	U	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0358.0	0358.0	U	150.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0530.0	0531.7	4.0	91.3			
	245	SVTO	4 S/F	0750.0	0758.0	10.0	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0758.0	0759.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1435.0	1435.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1435.0	1435.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1438.0	1438.0	U	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1438.0	1438.0	U	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1507.0	1508.0	1.0	80.0			QL=4 ST=2 TYP=3
	2695	PALE	48 C	1934.0	1938.0	9.0	110.0			QL=4 ST=2 TYP=8
	1415	PALE	4 S/F	1934.0	1937.0	4.0	100.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1934.0	1936.0	9.0	99.0			QL=4 ST=2 TYP=3
2695	SGMR	4 S/F	1934.0	1938.0	9.0	96.0			QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1935.0	1937.0	6.0	34.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	1935.0	1937.0	8.0	110.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1936.0	1937.0	1.0	32.0			QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	1936.0	1937.0	4.0	110.0			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

MAY 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
24	245	SGMR	46 C	1936.0	1940.0	7.0	41.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1936.0	1937.0	5.0	70.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1936.0	1938.0	7.0	93.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1936.0	1939.0	7.0	73.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1937.0	1937.0	1.0	45.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1937.0	1939.0	4.0	60.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2235.0	2239.0	4.0	65.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2235.0	2235.0	U	52.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2353.0	2359.0	44.0	16.0			
2840	PEKG	5 S	2356.0	2359.2	10.0	17.1				
25	245	LEAR	43 NS	0300.0	0641.0	390.0	550.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0356.0	0426.0	46.0	200.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0426.0	0426.0U	1174.0	67.0			QL=2 ST=1 TYP=1
	245	SVTO	43 NS	0426.0	0553.0U	1174.0	470.0			QL=2 ST=1 TYP=1
	410	LEAR	43 NS	0433.0	0604.0	238.0	120.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	0434.0	0440.0	1166.0	100.0			QL=2 ST=1 TYP=1
	410	SVTO	43 NS	0434.0	0558.0	1166.0	200.0			QL=2 ST=1 TYP=1
	33	UPIC	43 NS	0456.0	0656.0	402.0				
	127	TORN	44 NS	0630.0E		510.0D		760.0		V=1
	245	SGMR	43 NS	0936.0	1026.0	343.0	120.0			QL=4 ST=3 TYP=1
	280	CUBA	44 NS	1300.0E		390.0D		18.0		
	235	CUBA	44 NS	1300.0E		390.0D		23.0		
	245	LEAR	49 GB	0606.0	0606.0	1.0	520.0			QL=4 ST=2 TYP=6
	410	LEAR	4 S/F	0617.0	0619.0	4.0	120.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	0617.0	0619.0	3.0	270.0			QL=4 ST=3 TYP=3
	410	SVTO	4 S/F	0617.0	0619.0	3.0	120.0			QL=4 ST=3 TYP=3
	245	LEAR	49 GB	0619.0	0619.0	U	330.0			QL=4 ST=3 TYP=6
	245	LEAR	49 GB	0627.0	0628.0	6.0	340.0			QL=4 ST=3 TYP=6
	245	LEAR	49 GB	0641.0	0647.0	11.0	470.0			QL=4 ST=3 TYP=6
	500	HIRA	8 S	0655.0	0655.0	1.0	40.0			0
	200	HIRA	8 S	0655.0	0656.0	1.0	190.0			MR
	2840	PEKG	5 S	0708.0	0711.9	8.0	10.3			
	200	HIRA	8 S	0813.0	0813.0	1.0	265.0			MR
	245	SVTO	4 S/F	1200.0	1202.0	3.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1608.0	1609.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1628.0	1628.0	U	56.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1854.0	1855.0	3.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1951.0	1952.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1951.0	1952.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2030.0	2030.0	1.0	63.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2150.0	2215.0	42.0	11.0U			
	410	PALE	8 S	2213.0	2213.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2228.0	2228.0	1.0	510.0			QL=4 ST=2 TYP=6
410	PALE	8 S	2324.0	2325.0	1.0	130.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	2326.0	2326.0	U	620.0			QL=4 ST=2 TYP=6	
245	PALE	8 S	2350.0	2350.0	U	96.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2350.0	2350.0	U	270.0			QL=4 ST=2 TYP=3	
26	245	PALE	43 NS	0006.0	0023.0	160.0	140.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0700.0E		480.0D		70.0		V=2
	280	CUBA	44 NS	1300.0E		300.0D		10.0		
	235	CUBA	44 NS	1300.0E		300.0D		14.0		
	245	SGMR	43 NS	1326.0	1822.0	596.0	410.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1408.0	1413.0	152.0	200.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	1724.0	1950.0	671.0	330.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2325.0	2330.0	605.0	230.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0023.0	0023.0	2.0	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0513.0	0514.0	1.0	20.0			WL
	245	LEAR	8 S	0521.0	0523.0	2.0	86.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0521.0	0523.0	2.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1207.0	1207.0	U	31.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1207.0	1207.0	U	59.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1207.0	1207.0	1.0	30.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1207.0	1207.0	U	33.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1207.0	1207.0	1.0	80.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1207.0	1207.0	1.0	28.0			QL=2 ST=3 TYP=3
	245	SGMR	4 S/F	1304.0	1308.0	4.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1326.0	1327.0	1.0	50.0			QL=4 ST=2 TYP=3

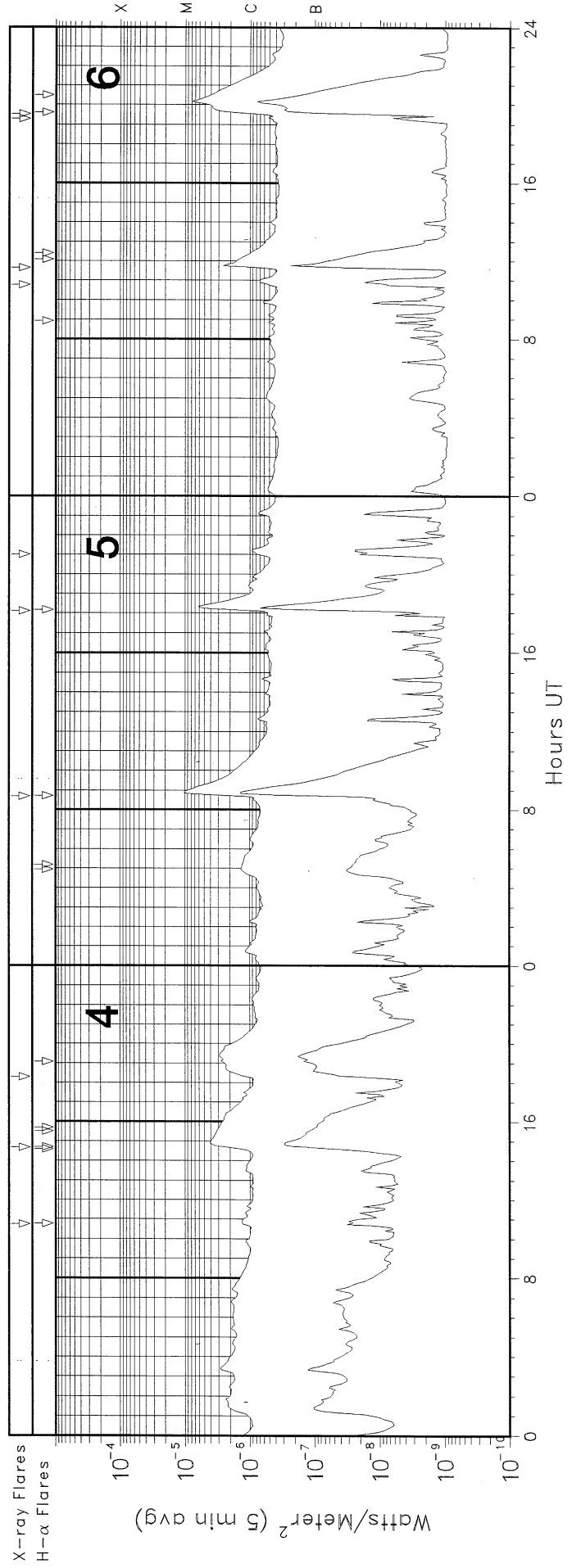
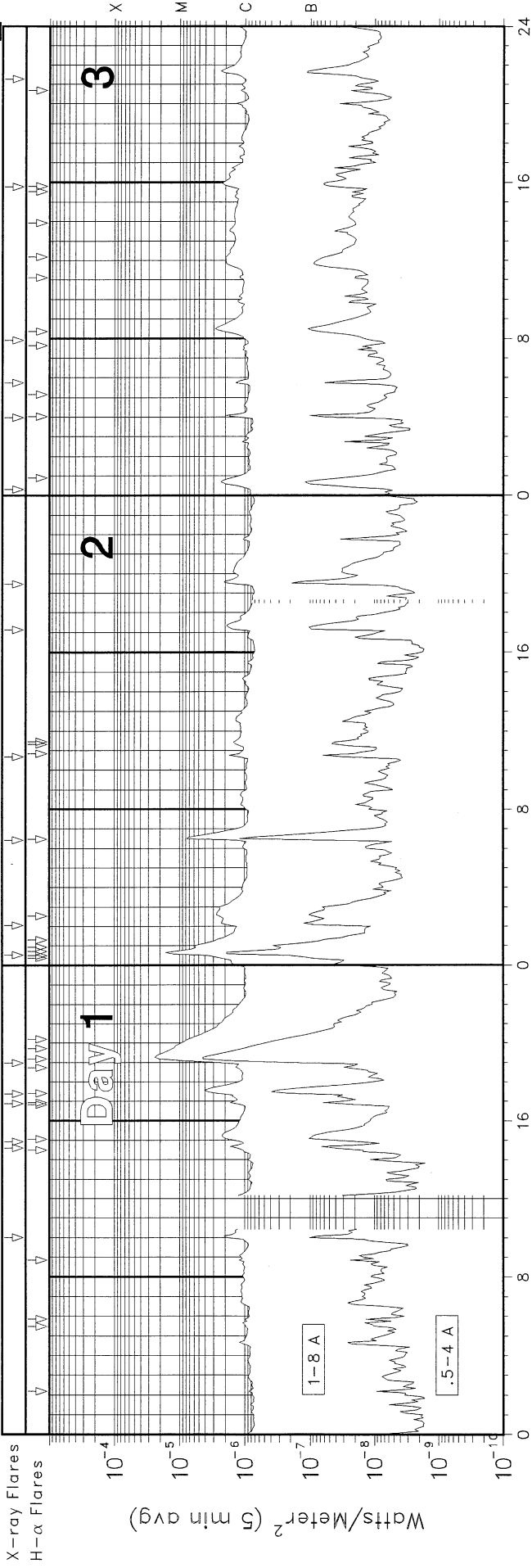
S O L A R R A D I O E M I S S I O N
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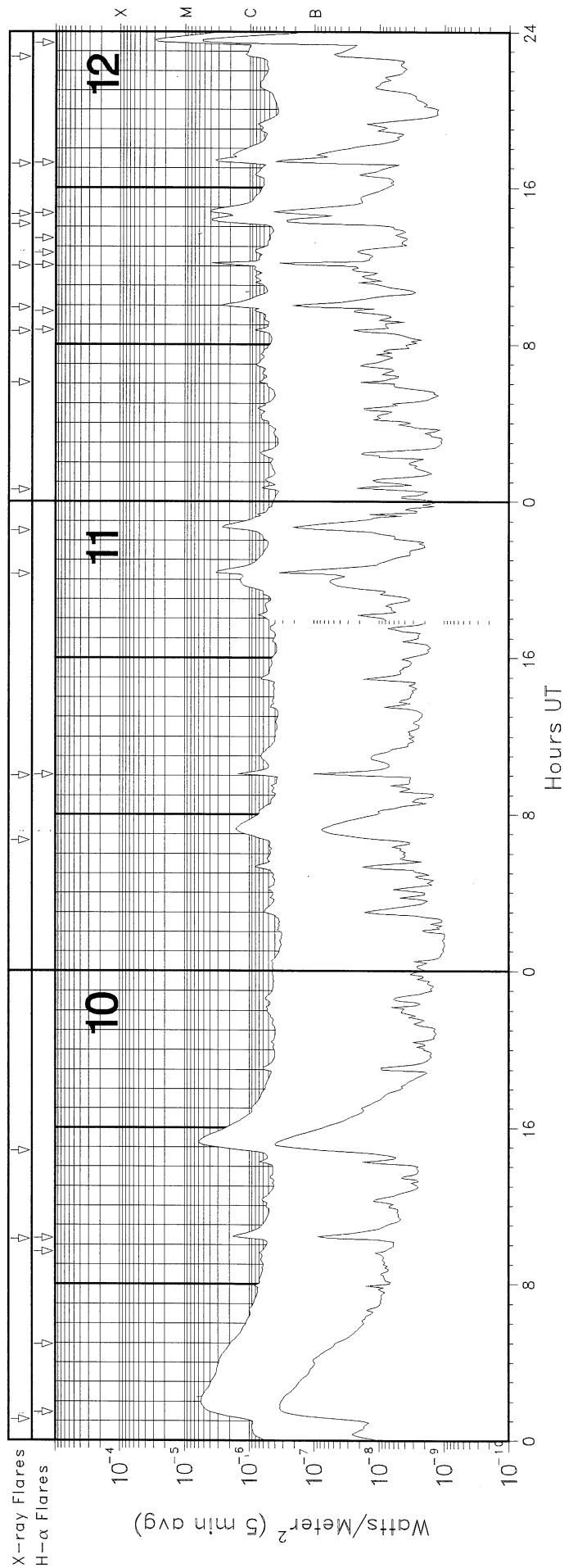
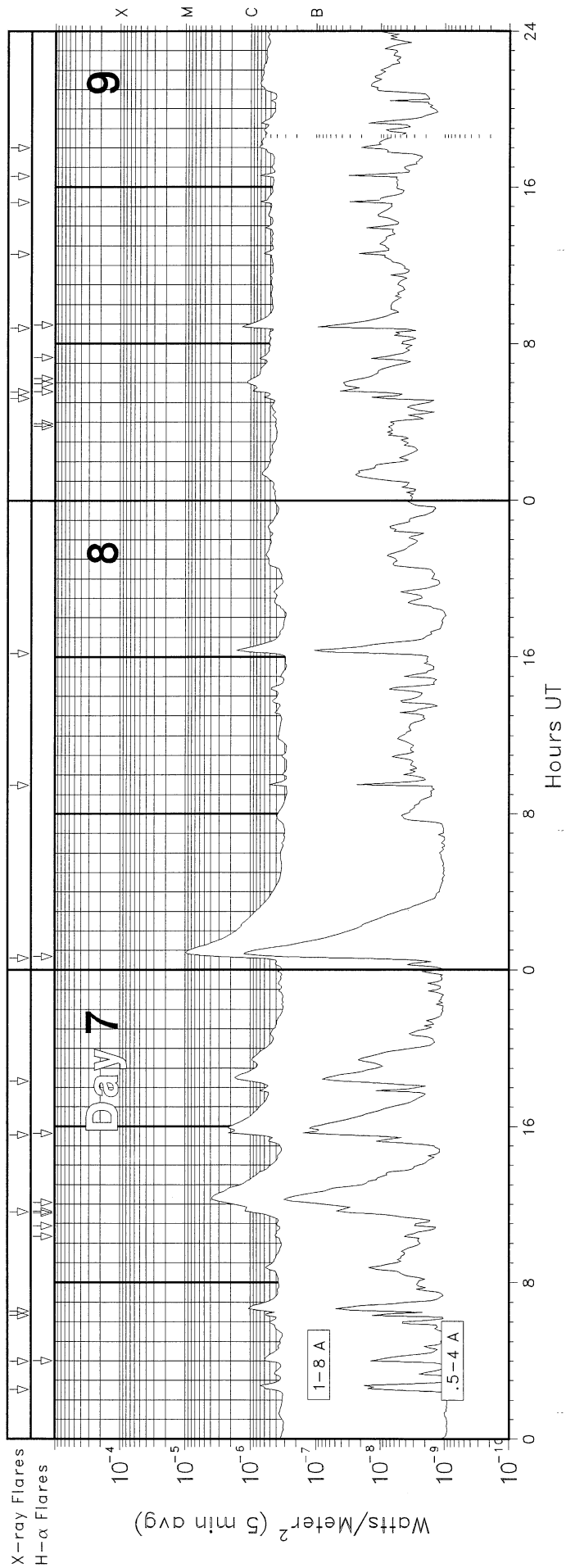
Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
26	245	PALE	49 GB	1822.0	1822.0	3.0	680.0			QL=4 ST=2 TYP=6
27	245	SVTO	43 NS	0431.0	0441.0	479.0	260.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0630.0E		420.0D		30.0		V=2
	245	SGMR	43 NS	1019.0	1041.0	131.0	200.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1400.0E		470.0D		15.0		
	235	CUBA	44 NS	1400.0E		470.0D		11.0		
	245	SGMR	8 S	1014.0	1014.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1017.0	1018.0	1.0	240.0			QL=4 ST=2 TYP=3
28	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	245	SVTO	8 S	1328.0	1329.0	1.0	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1328.0	1328.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1352.0	1352.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1352.0	1352.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1449.0	1449.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1449.0	1449.0	U	120.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1459.0	1459.0	2.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1905.0	1906.0	1.0	82.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1906.0	1906.0	U	74.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2155.0	2155.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2155.0	2155.0	U	71.0			QL=4 ST=2 TYP=3
	29	204	IZMI	43 NS	0947.0		133.0D		8.0	
245		SGMR	43 NS	1353.0	1416.0	46.0	62.0			QL=4 ST=2 TYP=1
245		SVTO	43 NS	1353.0	1353.0	62.0	71.0			QL=2 ST=3 TYP=1
280		CUBA	44 NS	1400.0E		310.0D		17.0		
235		CUBA	44 NS	1400.0E		310.0D		9.0		
245		SVTO	43 NS	1453.0	1353.0	2.0	71.0			QL=2 ST=2 TYP=1
245		LEAR	8 S	0439.0	0441.0	2.0	130.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	0439.0	0441.0	2.0	140.0			QL=4 ST=2 TYP=3
2840		PEKG	5 S	0522.0	0524.8	5.0	12.9			
2950		GORK	3 S	0524.2	0524.8	1.5	12.0			
9100		GORK	3 S	0524.4	0524.8	2.0	11.0			
204		IZMI	7 C	0602.4	0602.5	0.1	13.0			
33		UPIC	3 S	0830.0	0830.5	1.5				
204		IZMI	7 C	0830.5	0830.7	0.4	9.0			
200		HIRA	8 S	0831.0	0831.0	1.0	5.0			0
204		IZMI	42 SER	1118.6	1119.3	1.9	95.0			
245		SGMR	8 S	1241.0	1242.0	1.0	56.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1343.0	1343.0	U	92.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1343.0	1343.0	1.0	100.0			QL=4 ST=2 TYP=3
245		SVTO	4 S/F	1411.0	1412.0	3.0	91.0			QL=2 ST=2 TYP=3
410		SVTO	8 S	1413.0	1413.0	U	25.0			QL=2 ST=2 TYP=3
245		SGMR	4 S/F	1805.0	1806.0	3.0	71.0			QL=4 ST=2 TYP=3
410		SGMR	4 S/F	1805.0	1807.0	3.0	11.0			QL=4 ST=2 TYP=3
200	HIRA	7 C	2147.0	2149.0	3.0	340.0			0	
500	HIRA	8 S	2149.0	2149.0	1.0	10.0			0	
245	PALE	8 S	2149.0	2149.0	U	260.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2149.0	2149.0	U	190.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2305.0	2305.0	U	58.0			QL=2 ST=2 TYP=3	
30	280	CUBA	44 NS	1405.0E		295.0D		14.0		
	235	CUBA	44 NS	1405.0E		295.0D		7.0		
	200	HIRA	7 C	0005.0	0006.0	3.0	55.0			0
	204	IZMI	41 F	0955.4	0955.8	0.6	22.0			
	204	IZMI	42 SER	1021.7	1040.0	46.3	78.0			
	245	SGMR	4 S/F	1400.0	1401.0	3.0	50.0			QL=4 ST=2 TYP=3
31	204	IZMI	43 NS	1000.0		120.0D		10.0		
	280	CUBA	44 NS	1300.0E		180.0D		15.0		
	235	CUBA	44 NS	1300.0E		180.0D		8.0		
	200	HIRA	8 S	0142.0	0142.0	1.0	10.0			0
	200	HIRA	42 SER	0533.0	0533.0	4.0	15.0			0

GOES X-RAY DETECTOR May 2001

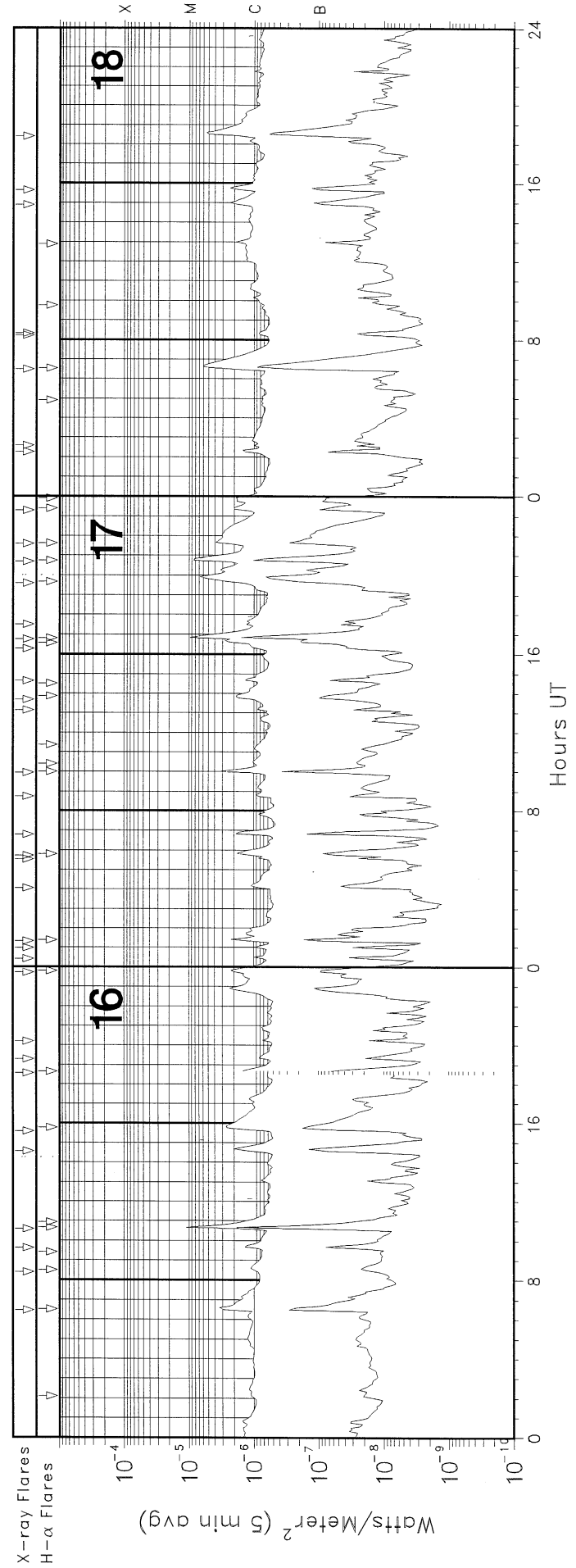
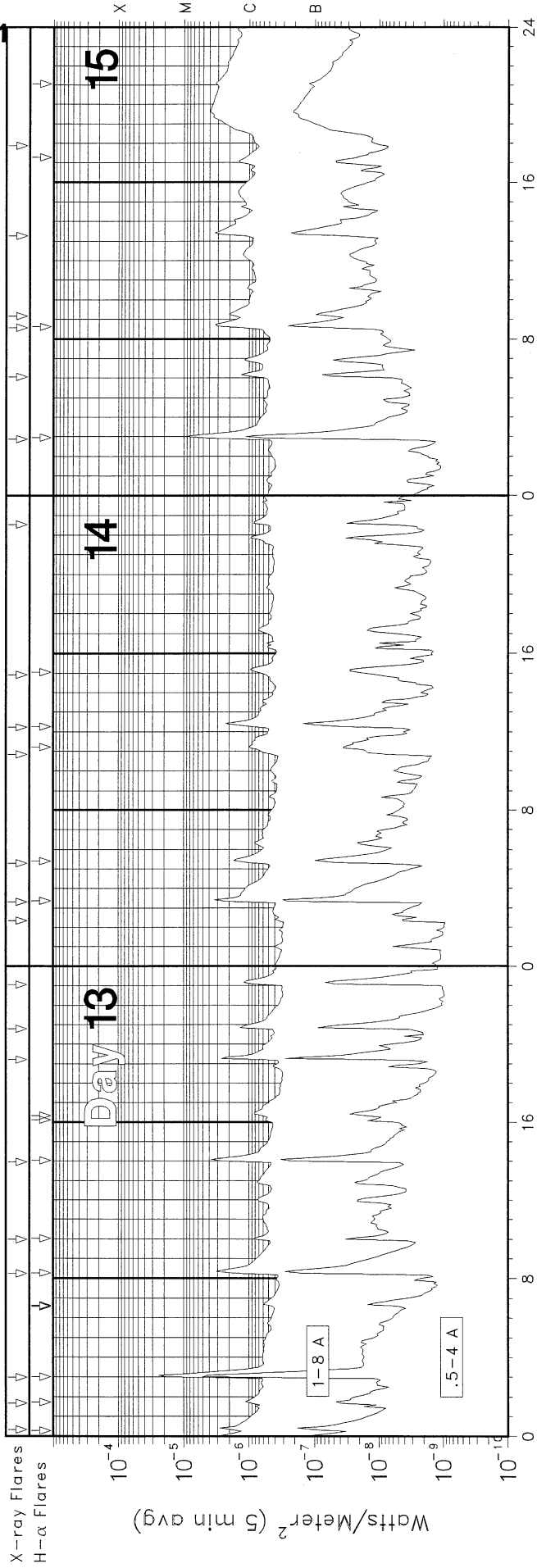


GOES X-RAY DETECTOR

May 2001

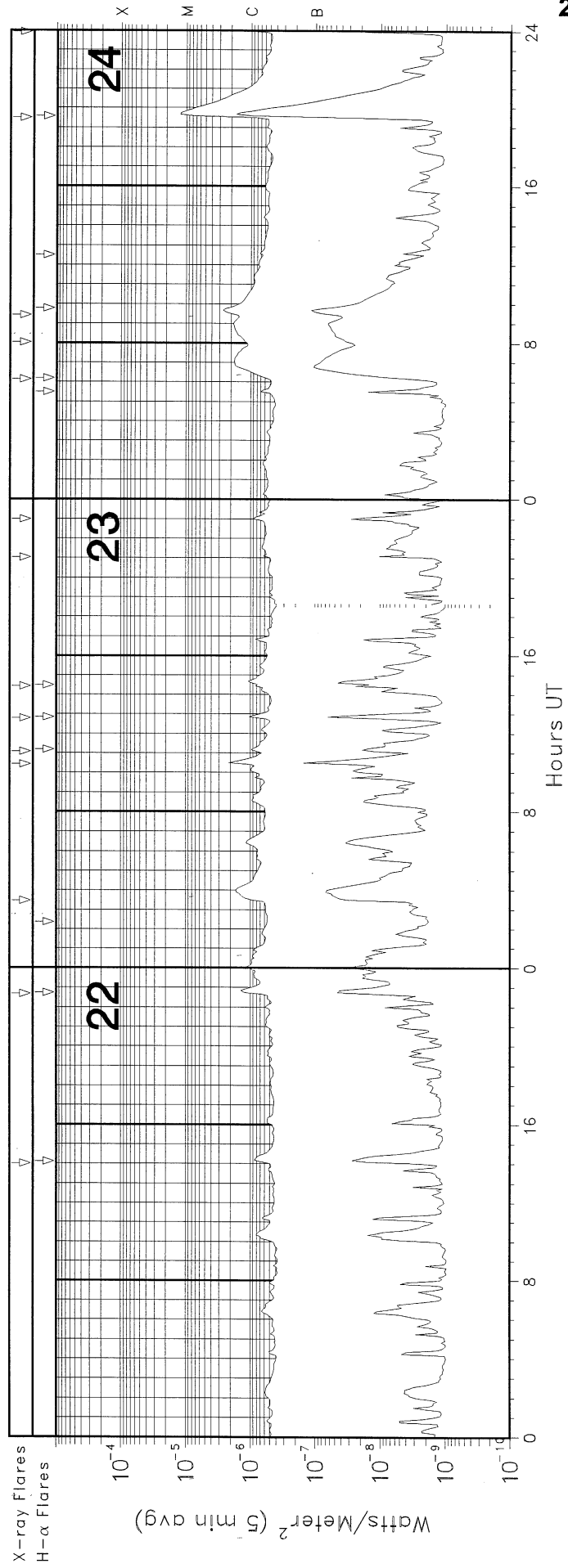
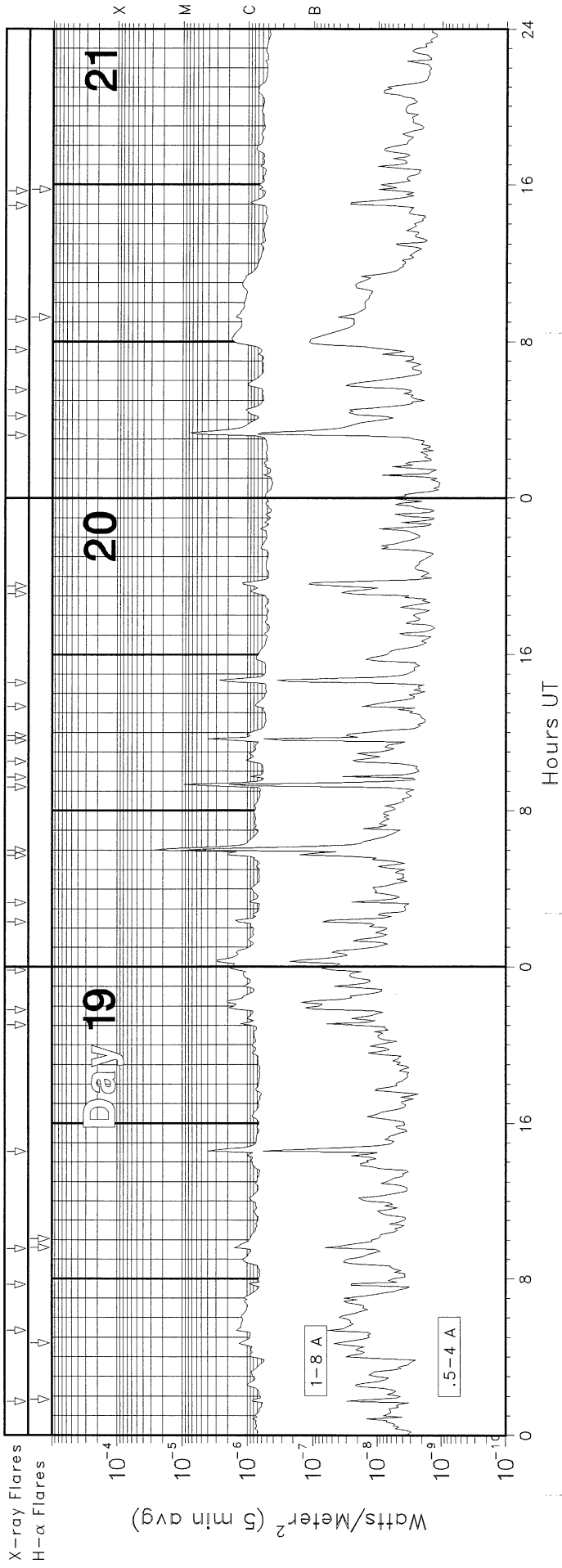


GOES X-RAY DETECTOR May 2001



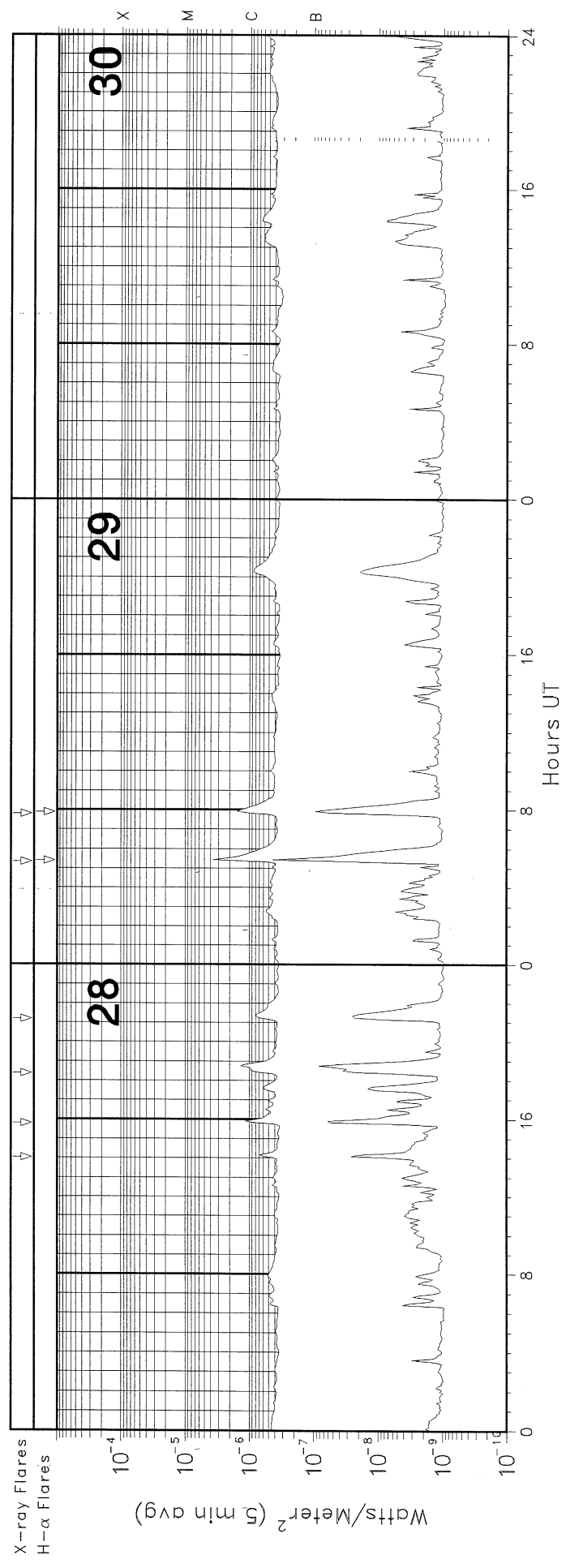
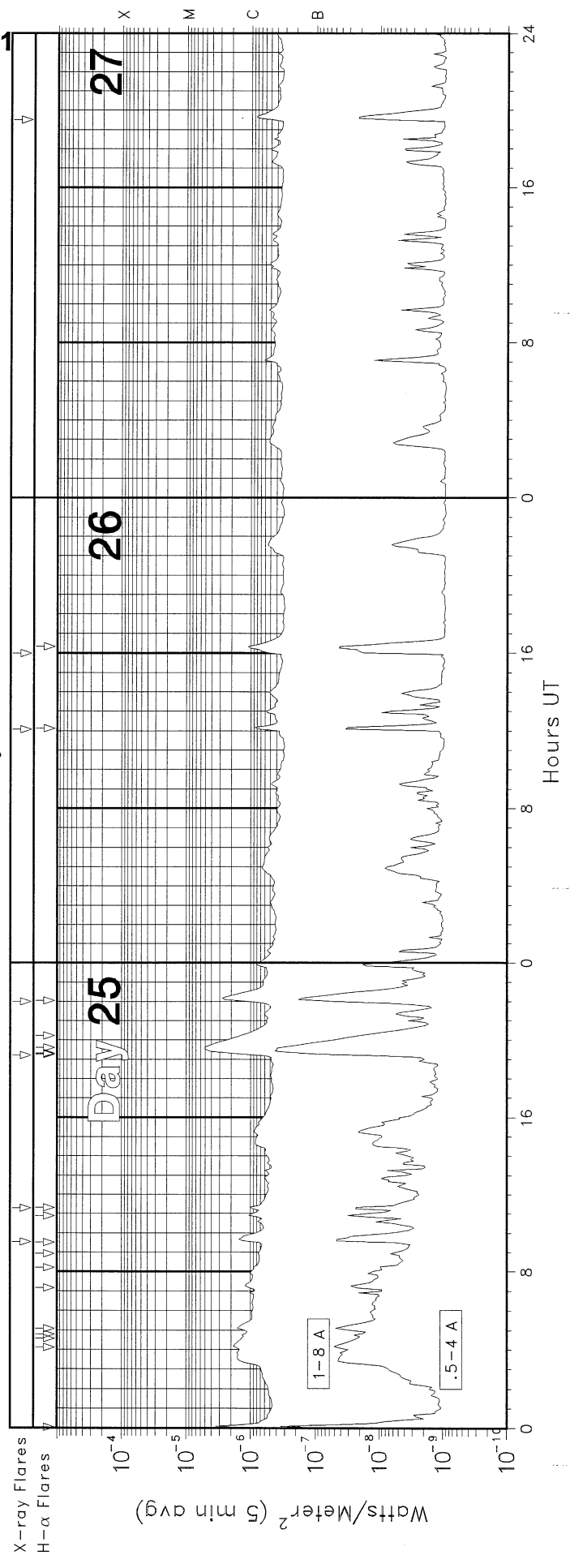
GOES X-RAY DETECTOR

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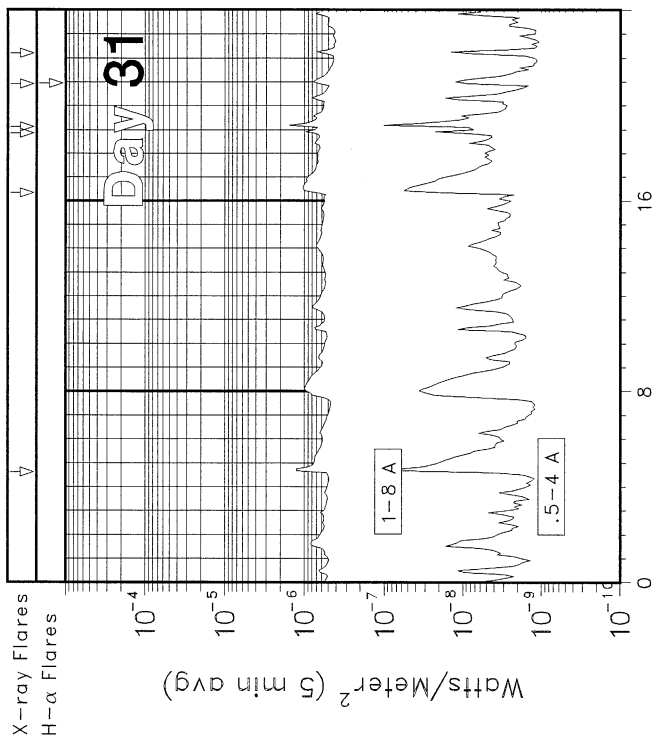


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GOES SOLAR X-RAY FLARES
Preliminary Listing

May 2001

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
01	0959	1004				C2.3	9441	1.3E-03
01	1436	1441				C1.7	9433	8.2E-04
01	1455	1515	N19	W78	SF	C2.2	9441	4.2E-03
01	1652	1656	N23	E42	SF	C2.0	9445	5.6E-04
01	1723	1735	N07	W13	SF	C4.2	9441	4.4E-03
01	1858	1917	N22	W77	SF	M2.4	9433	4.5E-02
02	0032	0040				M1.8	9441	1.1E-02
02	0204	0236	N24	E35	SF	C2.7	9445	9.1E-03
02	0626	0633	N06	W22	1F	C8.7	9441	6.0E-03
02	1040	1046				C1.9		8.2E-04
02	1708	1720				C1.9		2.6E-03
02	1928	1933				C2.4		1.6E-03
03	0018	0043				C2.3		3.6E-03
03	0359	0405	N26	E25	SF	C2.3	9445	9.7E-04
03	0544	0548				C1.6		6.5E-04
03	0754	0831	N13	W21	SF	C2.9	9447	5.9E-03
03	1546	1602	N12	W28	SF	C2.3	9447	2.7E-03
03	2116	2141				C2.3		4.1E-03
04	1044	1058	N25	E07	SF	C1.4	9445	1.5E-03
04	1440	1500	N12	W35	SF	C4.1	9447	1.5E-02
04	1818	1926				C3.0		1.5E-02
05	0842	0856	N25	W06	1F	M1.0	9445	1.4E-02
05	1807	1820	N24	W13	SF	C6.3	9445	6.7E-03
05	2100	2115				B9.3		1.1E-03
06	1046	1059				B8.0		8.4E-04
06	1140	1148				C2.8		2.0E-03
06	1917	1920				B5.9		1.9E-04
06	1931	2011	N24	W28	SF	C7.9	9445	1.5E-02
07	0231	0245				B7.7		6.8E-04
07	0358	0403				B6.2		8.1E-04
07	0620	0624				B7.7		2.6E-04
07	0632	0643				C1.0		1.2E-03
07	1136	1220				C3.9	9445	9.6E-03
07	1534	1559	N24	W40	SF	C2.2	9445	4.4E-03
07	1819	1831				C1.7		2.4E-03
08	0036	0055	N23	W43	1F	C9.9	9445	1.6E-02
08	0929	0932				B6.4		1.8E-04
08	1610	1622				C1.6		1.4E-03
09	0512	0516				B6.7		2.9E-04
09	0532	0603				C1.1	9445	2.7E-03
09	0847	0853	N26	W56	SF	C1.5	9445	1.0E-03
09	1234	1238				B7.2		2.6E-04
09	1513	1517				B8.8		2.4E-04
09	1633	1637				B8.5		2.9E-04
09	1800	1803				B8.4		3.2E-04
10	0105	0203				C5.6		4.9E-02
10	1018	1026	S18	W26	SF	C1.8	9449	1.5E-03
10	1448	1519				C6.1	9454	1.5E-02
11	0642	0717				C1.6		4.5E-03
11	1000	1006	S18	E25	SF	C1.6	9455	8.6E-04
11	2017	2022				C3.7		2.4E-03
11	2231	2244				C2.7		2.8E-03
12	0036	0044				B7.4		3.7E-04
12	0603	0607				B7.5		3.2E-04

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
12	0841	0845				B9.5	9454	3.7E-04
12	0954	1001	S17	E11	1F	C2.8	9455	2.0E-03
12	1202	1210	N15	E53	SF	C5.7	9454	1.8E-03
12	1408	1425	S17	E08	SF	C4.0	9455	4.4E-03
12	1440	1448	S18	E08	SF	C4.2	9455	3.9E-03
12	1714	1725	S19	E04	SF	C3.5	9455	3.0E-03
12	2242	2335	S17	E00	1B	M3.0	9455	2.9E-02
13	0020	0025	S15	E01	SF	C3.4	9455	1.3E-03
13	0140	0145	S17	E02	SF	C1.1	9455	8.1E-04
13	0258	0304	S18	W01	SN	M3.6	9455	1.2E-02
13	0813	0820	S17	W04	SF	C3.4	9455	2.4E-03
13	0958	1003	S15	W04	SF	B9.7	9455	4.7E-04
13	1358	1404	S16	W04	1F	C4.9	9455	2.3E-03
13	1912	1918				C3.3		1.4E-03
13	2047	2052				C1.6		1.0E-03
13	2303	2309				C1.1		1.2E-03
14	0221	0224				B4.3		1.8E-04
14	0319	0324	S15	W13	SF	C5.1	9455	1.5E-03
14	0517	0528	S17	W17	SF	C1.7	9455	1.7E-03
14	1051	1113	S17	W21	SF	C1.0	9455	2.7E-03
14	1213	1227	S18	W22	SF	C2.3	9455	1.8E-03
14	1455	1512	S15	W21	SF	B9.7	9455	1.1E-03
14	2232	2237				B8.8		8.3E-04
15	0253	0300	S17	W29	1N	M1.0	9455	5.6E-03
15	0604	0611				C1.3		1.1E-03
15	0834	0845	S17	W34	SF	C3.5	9455	3.0E-03
15	0910	0916	S18	W33	SF	C2.1	9455	1.8E-03
15	1316	1325				C3.4		4.3E-03
15	1752	1940				C4.0		4.1E-02
16	0628	0634	S17	W45	SF	C4.2	9455	2.1E-03
16	0824	0839	N17	E58	SF	C1.1	9461	1.5E-03
16	0937	0944				C1.5		9.1E-04
16	1035	1042	S17	W47	SF	M1.3	9455	4.0E-03
16	1435	1442				C2.1		1.3E-03
16	1536	1550	S11	W69	SF	C2.7	9458	4.8E-03
16	1833	1840	S17	W54	SF	C1.5	9455	1.2E-03
16	1917	1922				B8.5		7.7E-04
16	2012	2016				B7.5		3.6E-04
16	2344	2349	N14	W10	SF	C2.3	9454	1.5E-03
17	0026	0030				C1.1		3.3E-04
17	0059	0104				C1.0		4.3E-04
17	0120	0124	S16	W56	SF	C2.7	9455	1.1E-03
17	0404	0414				C1.1		1.2E-03
17	0533	0537				B9.3		3.3E-04
17	0544	0551	S19	W87	SF	C1.8	9451	1.6E-03
17	0647	0653				C2.2		1.0E-03
17	0845	0849				C1.2		4.5E-04
17	0957	1001				C4.0		1.5E-03
17	1309	1314				B9.8		4.7E-04
17	1341	1354	S13	W60	SF	C1.9	9455	2.1E-03
17	1439	1443				C1.4		7.0E-04
17	1616	1640	S17	W64	SF	C3.2	9455	2.9E-03
17	1646	1652	S16	W64	1F	M1.2	9455	4.6E-03
17	1730	1733				C1.6		4.0E-04
17	1936	1956	N13	W19	1F	C7.0	9454	7.3E-03
17	2041	2049	N13	W19	1F	C9.1	9454	7.3E-03
17	2136	2142	N22	E52	SF	C4.0	9461	7.1E-03
17	2317	2324	N20	E54	SF	C2.2	9461	1.9E-03
18	0215	0219				C2.2		6.7E-04
18	0235	0238				C1.2		3.0E-04

GOES SOLAR X-RAY FLARES
 Preliminary Listing

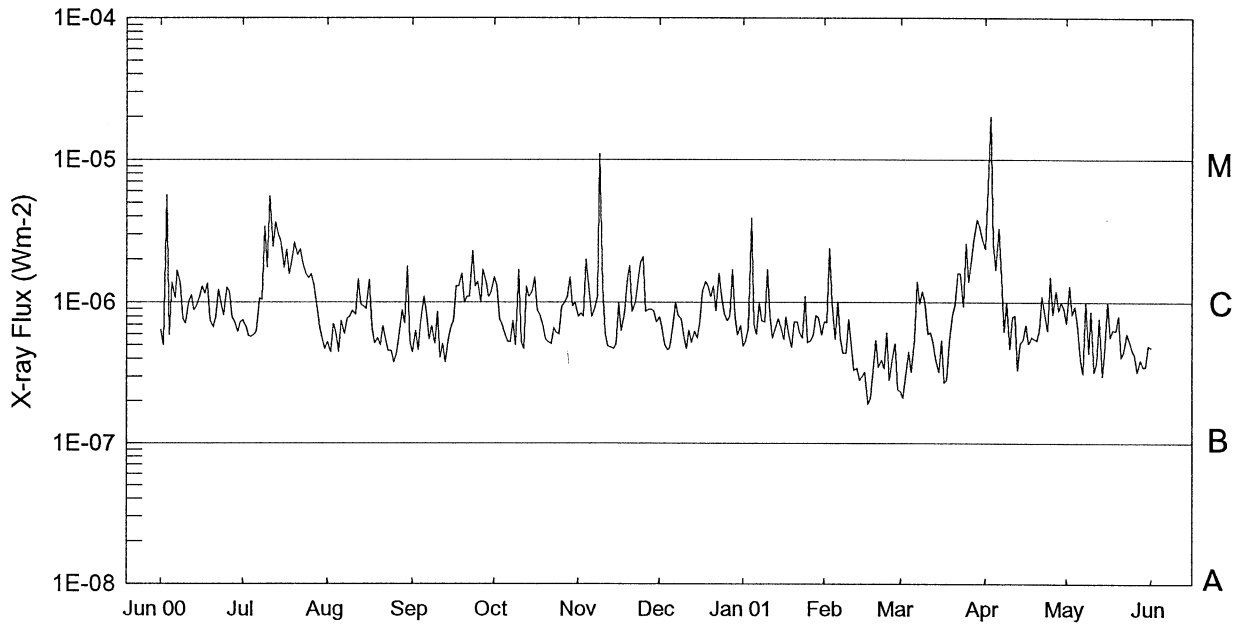
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 May 01

May 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
18	0629	0640	0656				C6.4		7.3E-03
18	0813	0816	0819				B8.5		2.8E-04
18	0820	0824	0827				B9.7		3.6E-04
18	1454	1501	1509				C2.4		1.8E-03
18	1539	1549	1553				C2.5		1.7E-03
18	1824	1835	1845				C5.7		5.0E-03
19	0144	0148	0152				C1.0		4.1E-04
19	0520	0524	0526				C1.9		5.5E-04
19	0741	0745	0747				C1.5		3.8E-04
19	0933	0937	0939				C1.9		5.3E-04
19	1433	1438	1441				C6.7		1.6E-03
19	2102	2107	2111				C1.3		6.3E-04
19	2148	2155	2204				C2.1		1.6E-03
19	2350	0019	0025				C3.5		4.2E-03
20	0220	0225	0228				C2.0		7.4E-04
20	0319	0323	0327				C1.0		4.4E-04
20	0543	0548	0554				C2.5		1.3E-03
20	0600	0603	0606				M6.4		1.2E-02
20	0912	0920	0923				M1.5		3.8E-03
20	0943	0947	0950				B9.7		3.4E-04
20	1031	1035	1042				C1.0		6.5E-04
20	1135	1140	1143				C6.1		1.5E-03
20	1150	1154	1203				C1.1		7.6E-04
20	1319	1323	1335				B8.0		7.0E-04
20	1432	1441	1446				C2.9		1.6E-03
20	1907	1916	1923				B9.2		8.0E-04
20	1930	1940	1945				C1.3		9.6E-04
21	0311	0320	0325			1N	C9.0	9461	4.3E-03
21	0411	0432	0437	N22	E08	SF	C1.1	9461	1.5E-03
21	0531	0549	0604				C1.0		1.6E-03
21	0735	0810	0907				C1.7		7.3E-03
21	0908	0919	0924				C1.5		1.4E-03
21	1456	1506	1516				B9.6		9.5E-04
21	1541	1603	1607				B7.0		1.0E-03
22	1400	1413	1430	S18	W16	SF	B8.8		1.3E-03
22	2241	2251	2301	S18	W20	SF	C1.4	9470	1.4E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
23	0329	0401	0420				C1.6		4.2E-03
23	1026	1032	1038				C2.4		1.2E-03
23	1105	1111	1119	N25	W21	SF	B9.6	9461	7.4E-04
23	1247	1252	1255	N08	E45	SF	C1.2	9468	4.3E-04
23	1425	1428	1431	N07	E44	SF	C1.0	9468	3.1E-04
23	2103	2106	2108				B7.0		1.8E-04
23	2259	2303	2307				C1.0		4.3E-04
24	0609	0706	0801				C1.8		9.0E-03
24	0802	0901	0925				C1.8		7.9E-03
24	0926	0942	0951				C2.7	9465	3.4E-03
24	1930	1944	2004	N07	E29	1N	M1.2	9468	1.8E-02
24	2357	0006	0010	N06	W13	SF	C4.0	9463	1.6E-03
25	0933	0939	0956				C1.5		1.8E-03
25	1116	1119	1123	N03	E19	SF	C1.2	9468	4.4E-04
25	1912	1937	1957	N03	E16	1F	C5.2	9468	9.8E-03
25	2200	2210	2223	N07	E15	SF	C2.8	9468	3.0E-03
26	1204	1208	1214	N02	E00	SF	C1.1	9468	5.0E-04
26	1559	1620	1628	N04	E03	SF	C1.1	9468	1.4E-03
27	1930	1941	1954				B8.5		1.0E-03
28	1402	1410	1416				B7.2		5.0E-04
28	1548	1556	1602				C1.2		7.8E-04
28	1822	1848	1856				C1.3		2.0E-03
28	2111	2123	2136				B8.0		1.1E-03
29	0521	0526	0532	N20	E43	SF	C4.4	9475	1.6E-03
29	0748	0755	0810	N19	E41	SF	C1.5	9475	1.6E-03
31	0437	0444	0449				C1.5		8.2E-04
31	1620	1632	1712				C1.0		2.9E-03
31	1852	1856	1859				C1.0		3.8E-04
31	1907	1911	1915				C1.7		6.1E-04
31	2055	2101	2112	S16	W31	SF	B7.7	9477	7.2E-04
31	2212	2216	2219				B7.2		2.7E-04

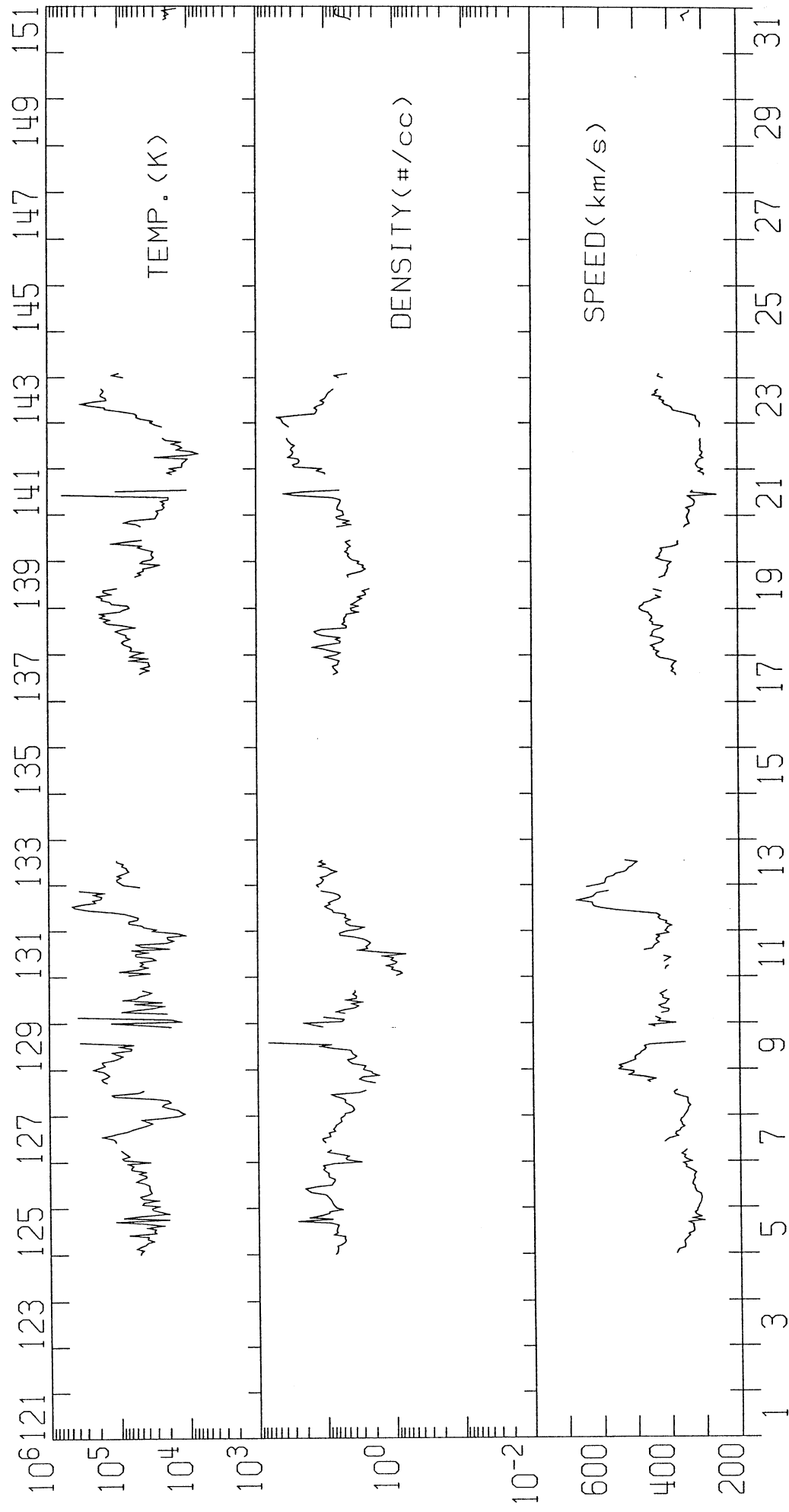
Preliminary GOES Satellite Daily X-Ray Background Jun 2000 - May 2001



Day	Jun 00	Jul	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb	Mar	Apr	May
1	B6.4	B7.4	B5.2	B4.5	C1.5	B8.0	B8.0	B4.9	B7.3	B2.3	C2.4	B7.1
2	B5.0	B6.7	B4.4	B6.3	C1.3	B8.4	B8.4	B5.4	B7.2	B2.1	C6.5	C1.3
3	C5.6	B5.7	B7.0	B4.6	B7.7	B8.0	B8.0	B6.5	C2.4	B3.2	M2.0	B8.2
4	B5.9	B5.7	B6.0	B7.5	B7.0	C2.0	C2.0	C3.9	B9.8	B4.5	C2.6	B9.3
5	C1.3	B5.9	B4.4	C1.1	B6.1	C1.2	C1.2	B6.9	B5.5	B3.2	C1.7	B7.1
6	C1.0	B6.2	B7.4	B8.2	B5.3	B8.0	B8.0	B6.0	C1.0	B5.5	C3.3	B4.0
7	C1.6	C1.0	B6.0	B5.5	B5.3	B8.9	B8.9	C1.0	B5.5	C1.4	C1.5	B3.1
8	C1.3	C1.0	B7.7	B6.8	B7.4	C1.1	C1.1	B7.4	B4.4	B9.8	B6.2	C1.0
9	B7.7	C3.3	B7.9	B5.1	B5.0	M1.1	M1.1	B7.3	B4.4	C1.2	C1.0	B4.4
10	B7.1	C1.7	B8.7	B8.6	C1.7	C1.3	C1.3	C1.7	B7.6	C1.0	B4.7	B8.6
11	C1.0	C5.5	B8.2	B4.1	B5.3	B6.1	B6.1	B8.0	B5.0	B6.0	B7.9	B3.2
12	C1.1	C2.4	C1.4	B5.1	B4.7	B4.9	B4.9	B5.6	B3.3	B6.1	B8.1	B3.7
13	B8.8	C3.6	B9.7	B3.8	C1.3	B4.8	B4.8	B6.7	B3.4	B5.1	B3.3	B7.7
14	B9.4	C2.9	B9.3	B5.5	C1.1	B4.7	B4.7	B7.7	B2.8	B3.9	B5.1	B3.0
15	C1.0	C2.6	B9.0	B6.7	C1.2	B5.1	B5.1	B6.7	B3.0	B3.2	B5.5	B4.2
16	C1.2	C1.7	C1.4	B7.4	C1.5	B9.9	B9.9	B5.5	B3.2	B5.4	B6.9	C1.0
17	C1.1	C2.3	B6.7	C1.3	B8.8	B6.3	B6.3	B7.9	B1.9	B2.7	B5.1	B5.7
18	C1.3	C1.5	B5.1	C1.3	B8.2	B8.3	B8.3	B5.8	B2.1	B2.8	B5.7	B6.4
19	B7.4	C2.1	B5.5	C1.6	B6.8	C1.4	C1.4	B4.8	B3.3	B5.2	B5.5	B6.3
20	B6.7	C2.6	B5.0	C1.0	B5.5	C1.8	C1.8	B7.3	B5.4	B8.2	B5.4	B8.0
21	B7.9	C2.1	B6.8	C1.1	B5.3	B8.7	B8.7	B7.3	B3.5	B9.6	B6.4	B4.1
22	C1.2	C2.3	B5.5	C1.1	B5.1	C1.0	C1.0	B6.2	B3.9	C1.6	C1.1	B4.5
23	B9.9	C1.8	B4.5	C2.3	B6.6	C1.4	C1.4	B5.6	B3.4	C1.6	B8.1	B6.0
24	B8.1	C1.5	B4.5	C1.3	B6.1	C1.9	C1.9	C1.1	B6.1	B9.4	B6.3	B5.3
25	C1.2	C1.4	B3.8	C1.4	B6.0	C2.1	C2.1	B5.2	B2.8	C2.6	C1.5	B4.6
26	C1.1	C1.5	B4.3	C1.0	B9.4	B8.7	B8.7	B5.4	B4.1	C1.4	B8.2	B4.2
27	B7.9	C1.3	B5.8	C1.7	C1.0	B8.9	B8.9	B5.9	B5.1	C2.1	C1.2	B3.2
28	B7.3	B9.2	B8.8	C1.4	C1.1	B8.9	B8.9	B8.1	B2.4	C2.8	B8.8	B3.9
29	B6.2	B6.6	B7.1	C1.1	C1.5	B8.7	B8.7	B7.8		C3.8	C1.0	B3.5
30	B8.0	B5.5	C1.7	C1.2	B9.4	B7.3	B7.3	B5.9		C3.4	B9.0	B3.5
31		B4.6	B5.2		C1.0			B7.4		C2.8		B4.9

IMP 8 SOLAR WIND PLASMA
MAY 2001

MIT/CSR IMP 8 PLASMA PARAMETERS



MAY 2001

MAY 2001

IMP 8

MIT

ONE-HOUR AVERAGES

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Comprehensive Reports

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MISCELLANEOUS DATA

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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 2000 by Kleczek (1952), Knoska and Letfus (unpublished), Knoska and Petrusek (1984), Atac (1987) and Atac and Ozguc (1998). The daily flare index of the 21,22,23 Solar Cycles was determined by using the final grouped solar flares, which are compiled by the 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. The 1986-2000 flare index data are produced by:

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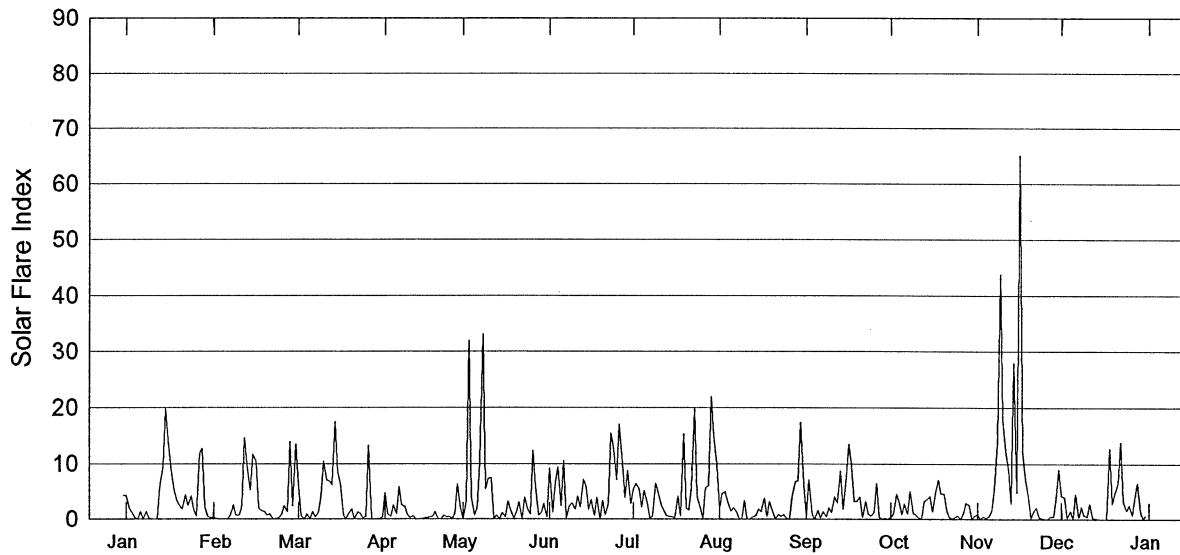
Acknowledgements

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NOTE:

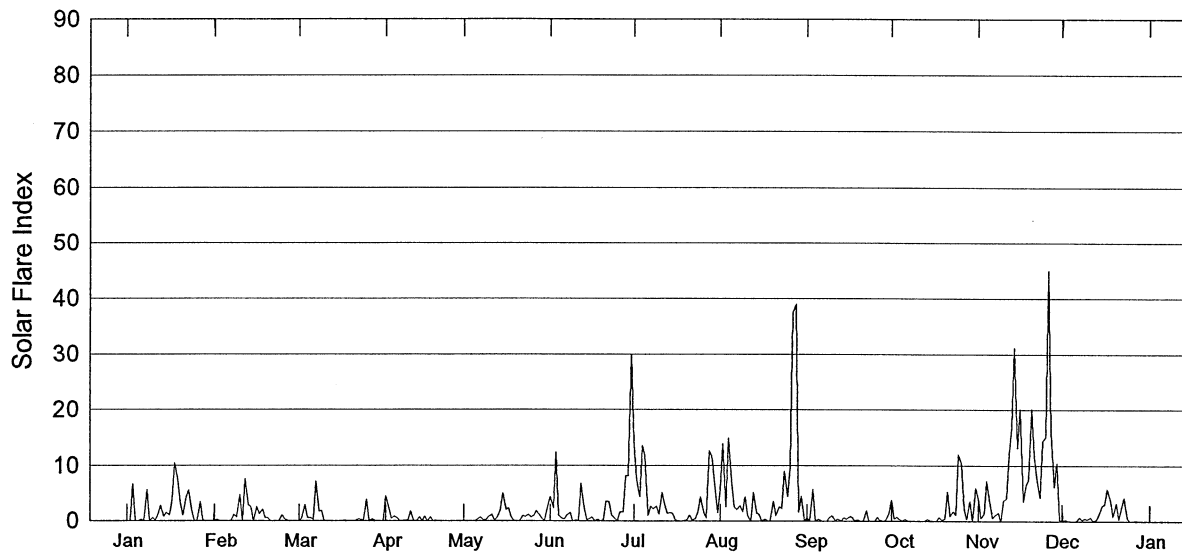
It would be appropriate courtesy to acknowledge in publications that the flare index data were calculated by the staff of Kandilli Observatory. The following statement is suggested: "Flare Index Data used in this study were calculated by T.Atac and A.Ozguc from Bogazici University Kandilli Observatory, Istanbul, Turkey"
<http://www.koeri.boun.edu.tr/astronomy/findex.html>

Flare Index of Solar Activity Northern Hemisphere 1999



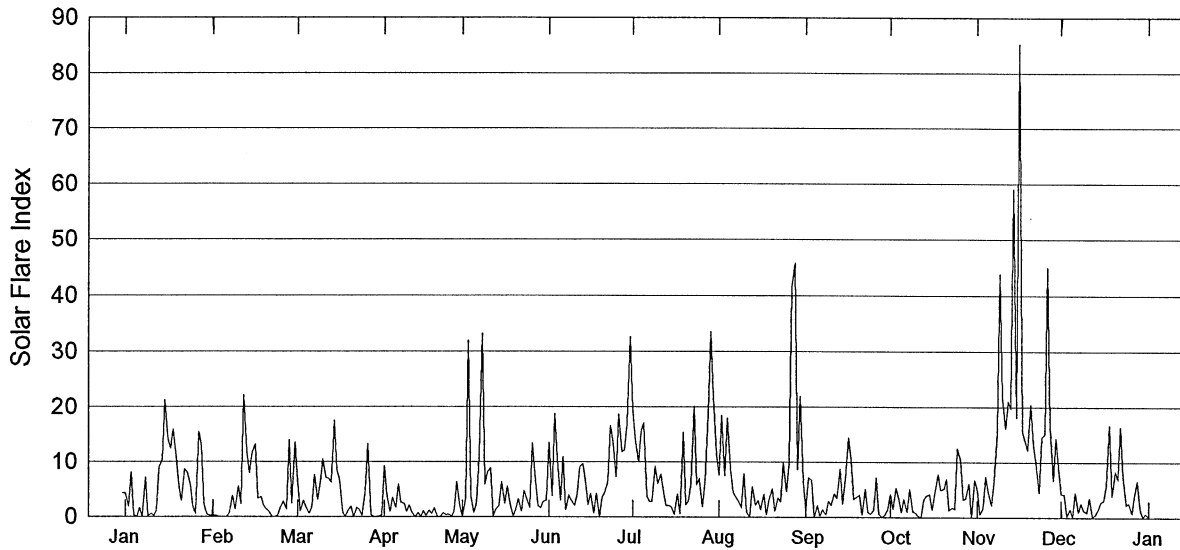
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.33	0.28	2.49	0.00	0.22	9.16	5.48	2.01	0.83	0.38	0.88	4.24
2	1.89	0.00	13.45	0.42	3.19	1.38	6.38	4.61	7.09	1.00	0.00	3.92
3	1.34	0.00	6.26	4.71	31.91	6.38	5.54	4.97	0.95	4.55	0.49	0.34
4	0.25	0.00	0.61	0.98	3.81	9.42	2.23	3.09	0.00	3.13	0.13	1.60
5	0.00	0.00	0.00	0.50	0.90	2.44	5.22	1.51	1.67	1.02	0.52	0.17
6	1.39	0.00	1.00	2.57	2.07	10.53	2.78	2.12	0.26	2.86	1.58	4.47
7	0.00	0.69	0.00	1.11	10.23	0.27	0.18	1.55	1.39	1.11	5.39	0.36
8	1.47	2.56	1.48	5.89	33.06	2.44	0.56	0.00	0.52	5.10	13.99	2.27
9	0.15	0.70	0.41	2.57	5.58	2.96	6.48	0.00	2.16	1.08	43.96	0.78
10	0.00	0.79	1.35	2.31	7.30	1.88	4.85	3.42	1.29	0.89	18.14	0.55
11	0.00	2.30	4.20	0.82	7.53	4.16	2.52	0.00	4.07	0.25	11.98	2.77
12	0.00	14.59	10.44	0.31	0.00	2.28	1.64	0.00	3.06	0.00	8.97	0.15
13	6.11	8.77	7.06	0.65	0.77	7.08	0.62	0.37	8.69	3.28	2.91	0.20
14	9.43	5.36	6.90	0.00	0.00	6.01	0.47	0.80	1.83	3.58	27.99	0.11
15	19.73	11.71	6.16	0.00	1.22	1.86	0.43	1.83	6.29	4.17	4.90	0.00
16	13.01	10.56	17.45	0.00	0.36	3.48	0.25	1.44	13.54	1.42	65.14	0.00
17	8.63	2.01	8.33	0.22	3.20	0.76	4.20	3.78	9.80	5.14	11.96	0.00
18	5.49	1.55	6.65	0.33	1.80	3.94	0.57	0.48	3.25	7.10	7.44	12.67
19	3.22	1.40	0.60	0.42	0.14	0.00	15.36	3.14	3.28	4.67	4.70	2.90
20	2.42	0.75	0.00	0.56	1.33	3.33	2.00	1.48	4.07	4.62	0.31	5.04
21	1.85	1.02	1.34	1.44	3.15	0.84	1.69	0.08	0.44	1.64	1.52	6.51
22	4.38	0.10	1.85	0.00	0.17	2.86	5.62	0.88	3.19	0.38	2.11	13.85
23	2.60	0.00	0.00	0.00	3.90	15.48	19.73	0.52	1.02	0.00	0.29	3.09
24	4.20	0.19	1.30	0.76	1.81	12.95	4.10	0.90	0.63	0.42	0.17	1.69
25	1.75	0.83	1.05	0.44	0.98	7.12	2.51	0.09	1.30	0.64	0.00	2.57
26	0.63	2.49	0.29	0.52	12.38	16.99	0.29	0.00	6.44	0.00	0.00	0.83
27	11.96	1.40	0.49	0.19	5.96	10.18	5.70	4.20	0.38	1.14	0.48	4.00
28	12.66	13.97	13.32	1.10	0.81	3.91	6.09	6.76	0.00	2.96	0.53	6.56
29	2.21		0.00	6.33	1.16	8.76	21.93	6.90	0.15	2.58	3.88	1.21
30	0.37		0.00	1.85	2.81	2.75	14.96	17.33	0.12	0.00	8.90	0.19
31	0.28		0.00		0.36		9.75	6.33		0.73		0.78
Mean	3.93	3.00	3.69	1.23	4.78	5.39	5.17	2.60	2.92	2.12	8.31	2.71

Flare Index of Solar Activity Southern Hemisphere 1999



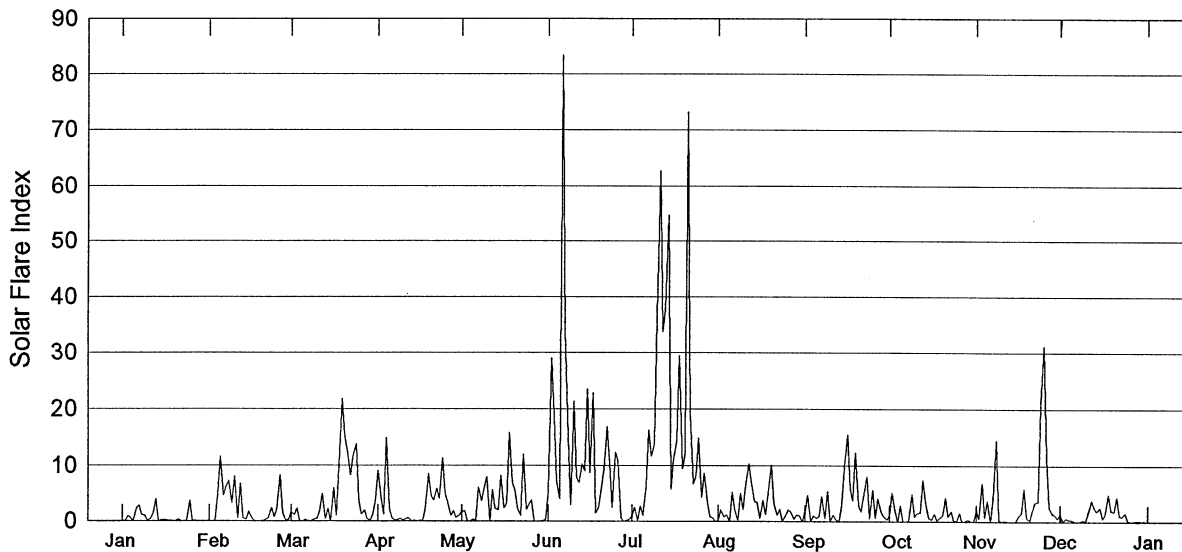
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	4.38	13.81	5.61	0.62	3.83	4.16	0.00
2	0.00	0.26	0.00	0.00	0.00	2.44	7.54	13.84	0.00	0.52	0.60	0.25
3	6.64	0.00	0.00	4.53	0.00	12.35	4.39	2.53	5.72	0.77	1.27	0.00
4	0.00	0.00	0.51	2.78	0.00	1.07	13.47	14.82	0.12	0.32	7.20	0.00
5	0.00	0.00	2.93	0.48	0.00	0.56	11.76	7.07	0.46	0.00	4.08	0.00
6	0.25	0.09	0.63	0.88	0.38	0.36	1.09	2.53	0.00	0.36	0.62	0.00
7	0.00	0.00	0.67	0.61	0.81	1.08	2.67	2.14	0.00	0.00	1.13	0.74
8	5.67	1.23	0.32	0.00	0.17	1.49	2.19	2.79	0.00	0.00	1.50	0.25
9	0.00	0.75	7.15	0.00	0.32	0.10	2.66	1.76	0.78	0.00	0.00	0.49
10	0.57	4.70	1.82	0.17	0.86	0.22	1.28	4.41	1.00	0.00	3.70	0.37
11	0.21	0.00	1.95	0.13	1.26	0.07	5.17	0.94	0.18	0.00	4.16	0.72
12	1.22	7.57	0.00	1.80	0.23	6.82	3.03	0.07	0.42	0.00	12.02	0.00
13	2.82	2.94	0.00	0.00	0.68	2.52	1.47	5.17	0.00	0.00	16.84	0.27
14	0.88	2.58	0.00	0.00	2.00	0.30	1.58	1.45	0.67	0.36	31.12	1.24
15	1.50	0.00	0.00	0.74	5.11	0.42	1.38	1.18	0.45	0.00	13.12	2.82
16	1.09	2.58	0.00	0.00	2.13	0.79	0.22	0.00	0.85	0.00	20.08	2.98
17	3.85	1.32	0.00	0.89	2.35	0.00	0.00	0.42	0.72	0.00	3.63	5.75
18	10.40	2.07	0.11	0.00	0.80	0.34	0.00	0.00	0.00	0.70	6.38	3.99
19	7.55	0.64	0.13	0.74	0.00	0.00	0.00	0.00	0.34	0.26	7.50	1.00
20	3.21	0.65	0.00	0.10	0.00	0.24	0.30	3.55	0.00	0.46	20.10	3.23
21	1.10	0.00	0.00	0.19	0.11	3.56	1.11	1.10	0.10	5.25	11.58	0.44
22	4.23	0.00	0.00	0.00	0.95	3.51	0.33	2.60	1.90	0.94	7.74	2.51
23	5.54	0.00	0.00	0.00	0.82	1.11	0.42	2.32	0.00	1.80	4.27	4.32
24	1.74	0.00	0.35	0.00	1.21	0.63	1.72	8.90	0.00	1.14	14.38	0.64
25	0.00	1.07	0.32	0.00	0.77	0.10	4.42	4.53	0.08	11.88	15.09	0.00
26	0.00	0.35	0.00	0.00	1.00	1.69	1.62	9.64	0.75	10.40	45.08	0.00
27	3.52	0.00	4.00	0.00	1.89	1.66	0.61	37.53	0.23	2.15	16.08	0.15
28	0.23	0.00	0.00	0.00	1.19	8.19	12.61	39.04	0.00	0.44	6.18	0.00
29	0.00		0.42	0.00	0.47	8.20	11.63	1.71	0.24	3.56	10.39	0.12
30	0.00		0.00	0.00	0.00	29.93	6.97	4.55	1.48	0.00	0.33	0.00
31	0.00		0.00		2.72		1.60	0.00		5.94		0.00
Mean	2.01	1.03	0.69	0.47	0.91	3.14	3.78	5.88	0.57	1.65	9.68	1.04

Flare Index of Solar Activity Full Disk 1999



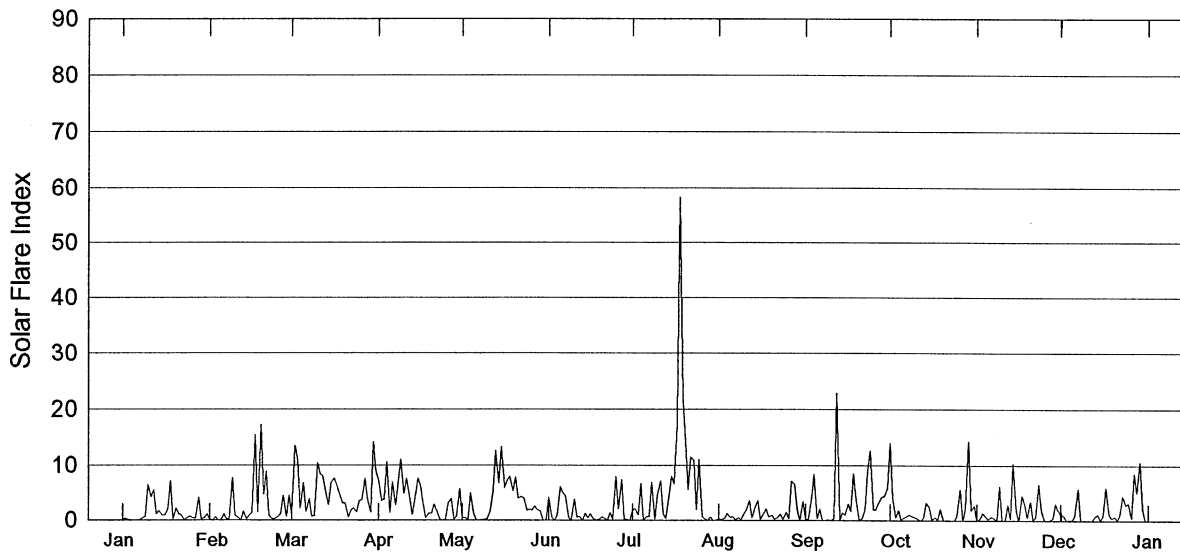
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.33	0.28	2.49	0.00	0.22	13.54	19.29	7.62	1.45	4.21	5.04	4.24
2	1.89	0.26	13.45	0.42	3.19	3.82	13.92	18.45	7.09	1.52	0.60	4.17
3	7.98	0.00	6.26	9.24	31.91	18.73	9.93	7.50	6.67	5.32	1.76	0.34
4	0.25	0.00	1.12	3.76	3.81	10.49	15.70	17.91	0.12	3.45	7.33	1.60
5	0.00	0.00	2.93	0.98	0.90	3.00	16.98	8.58	2.13	1.02	4.60	0.17
6	1.64	0.09	1.63	3.45	2.45	10.89	3.87	4.65	0.26	3.22	2.20	4.47
7	0.00	0.69	0.67	1.72	11.04	1.35	2.85	3.69	1.39	1.11	6.52	1.10
8	7.14	3.79	1.80	5.89	33.23	3.93	2.75	2.79	0.52	5.10	15.49	2.52
9	0.15	1.45	7.56	2.57	5.90	3.06	9.14	1.76	2.94	1.08	43.96	1.27
10	0.57	5.49	3.17	2.48	8.16	2.10	6.13	7.83	2.29	0.89	21.84	0.92
11	0.21	2.30	6.15	0.95	8.79	4.23	7.69	0.94	4.25	0.25	16.14	3.49
12	1.22	22.16	10.44	2.11	0.23	9.10	4.67	0.07	3.48	0.00	20.99	0.15
13	8.93	11.71	7.06	0.65	1.45	9.60	2.09	5.54	8.69	3.28	19.75	0.47
14	10.31	7.94	6.90	0.00	2.00	6.31	2.05	2.25	2.50	3.94	59.11	1.35
15	21.23	11.71	6.16	0.74	6.33	2.28	1.81	3.01	6.74	4.17	18.02	2.82
16	14.10	13.14	17.45	0.00	2.49	4.27	0.47	1.44	14.39	1.42	85.22	2.98
17	12.48	3.33	8.33	1.11	5.55	0.76	4.20	4.20	10.52	5.14	15.59	5.75
18	15.89	3.62	6.76	0.33	2.60	4.28	0.57	0.48	3.25	7.80	13.82	16.66
19	10.77	2.04	0.73	1.16	0.14	0.00	15.36	3.14	3.62	4.93	12.20	3.90
20	5.63	1.40	0.00	0.66	1.33	3.57	2.30	5.03	4.07	5.08	20.41	8.27
21	2.95	1.02	1.34	1.63	3.26	4.40	2.80	1.18	0.54	6.89	13.10	6.95
22	8.61	0.10	1.85	0.00	1.12	6.37	5.95	3.48	5.09	1.32	9.85	16.36
23	8.14	0.00	0.00	0.00	4.72	16.59	20.15	2.84	1.02	1.80	4.56	7.41
24	5.94	0.19	1.65	0.76	3.02	13.58	5.82	9.80	0.63	1.56	14.55	2.33
25	1.75	1.90	1.37	0.44	1.75	7.22	6.93	4.62	1.38	12.52	15.09	2.57
26	0.63	2.84	0.29	0.52	13.38	18.68	1.91	9.64	7.19	10.40	45.08	0.83
27	15.48	1.40	4.49	0.19	7.85	11.84	6.31	41.73	0.61	3.29	16.56	4.15
28	12.89	13.97	13.32	1.10	2.00	12.10	18.70	45.80	0.00	3.40	6.71	6.56
29	2.21		0.42	6.33	1.63	16.96	33.56	8.61	0.39	6.14	14.27	1.33
30	0.37		0.00	1.85	2.81	32.68	21.93	21.88	1.60	0.00	9.23	0.19
31	0.28		0.00		3.08		11.35	6.33		6.67		0.78
Mean	5.94	4.03	4.38	1.70	5.69	8.53	8.95	8.48	3.49	3.77	17.99	3.75

Flare Index of Solar Activity Northern Hemisphere 2000



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.17	0.00	1.66	9.04	1.73	5.00	1.03	0.23	1.74	1.13	1.98	1.37
2	0.00	0.00	1.20	4.11	1.84	29.01	2.56	2.08	4.73	5.18	0.57	0.19
3	1.03	0.09	2.31	1.32	0.00	18.87	0.28	0.90	0.08	1.76	6.90	0.64
4	0.62	4.83	0.06	14.87	0.08	7.21	2.82	1.17	1.05	0.00	0.88	0.36
5	0.00	11.58	0.00	2.20	0.40	4.04	1.19	0.23	0.59	2.95	3.66	0.40
6	2.43	4.79	0.26	0.65	0.00	83.39	6.20	5.25	1.00	0.00	0.00	0.00
7	2.92	6.29	0.00	0.15	6.11	34.19	16.21	2.14	4.57	0.00	4.16	0.00
8	1.15	7.29	0.00	0.33	3.71	15.04	11.68	0.32	0.63	0.23	14.39	0.00
9	1.11	3.36	0.44	0.51	6.03	3.00	13.74	5.07	5.42	4.95	0.32	0.28
10	0.21	8.10	0.48	0.20	7.89	21.41	36.38	2.26	0.22	1.01	0.00	0.21
11	0.54	0.57	1.87	0.54	0.20	7.93	62.73	6.48	1.25	1.50	0.23	1.74
12	1.51	6.83	4.93	0.57	5.67	7.06	33.78	10.35	0.40	1.66	0.00	3.85
13	4.04	0.57	0.54	0.00	2.35	10.19	37.77	6.92	0.00	7.44	0.00	2.53
14	0.00	0.44	2.39	0.20	2.17	9.04	54.76	3.65	3.17	3.67	0.00	1.95
15	0.34	1.79	0.00	0.12	8.20	23.57	5.78	3.47	9.58	0.70	0.00	2.54
16	0.27	0.76	5.94	0.19	2.49	8.74	11.16	0.61	15.42	0.36	0.93	0.65
17	0.16	0.00	1.04	0.00	3.27	22.86	14.25	3.77	5.88	1.47	1.53	1.31
18	0.21	0.00	9.93	2.37	15.84	1.53	29.48	1.30	3.79	0.33	5.85	4.87
19	0.18	0.00	21.87	8.49	6.96	2.68	9.36	5.15	12.28	0.79	0.79	2.04
20	0.12	0.00	15.14	4.73	5.54	5.87	12.06	10.15	2.94	1.20	0.28	1.95
21	0.44	0.27	11.96	3.85	2.33	9.23	73.13	3.29	1.87	4.31	1.97	4.43
22	0.00	0.60	8.21	5.83	1.07	16.78	19.44	1.20	5.48	1.03	3.53	1.04
23	0.00	2.43	11.84	4.15	11.93	10.49	6.77	2.28	8.07	1.95	3.59	1.00
24	0.12	0.84	13.73	11.35	2.21	2.55	8.02	0.21	0.60	0.22	20.96	1.56
25	3.67	2.12	3.97	4.98	3.13	12.27	14.90	1.04	5.63	0.00	31.10	0.17
26	0.08	8.24	1.31	3.49	3.82	10.87	4.35	2.13	0.75	1.53	11.31	0.00
27	0.13	1.60	1.98	1.10	0.08	0.58	8.56	1.79	4.15	0.00	2.65	0.00
28	0.06	0.15	0.51	1.84	0.00	0.10	3.75	0.48	1.94	0.12	1.44	0.20
29	0.00	0.26	0.13	0.77	0.00	0.13	0.83	1.17	0.96	0.42	1.15	0.18
30	0.00		1.32	1.10	0.00	0.36	0.72	1.06	0.38	0.00	0.63	0.00
31	0.07		3.68		0.38		0.00	0.00				0.15
Mean	0.70	2.54	4.15	2.97	3.40	12.80	16.25	2.78	3.48	1.48	4.03	1.15

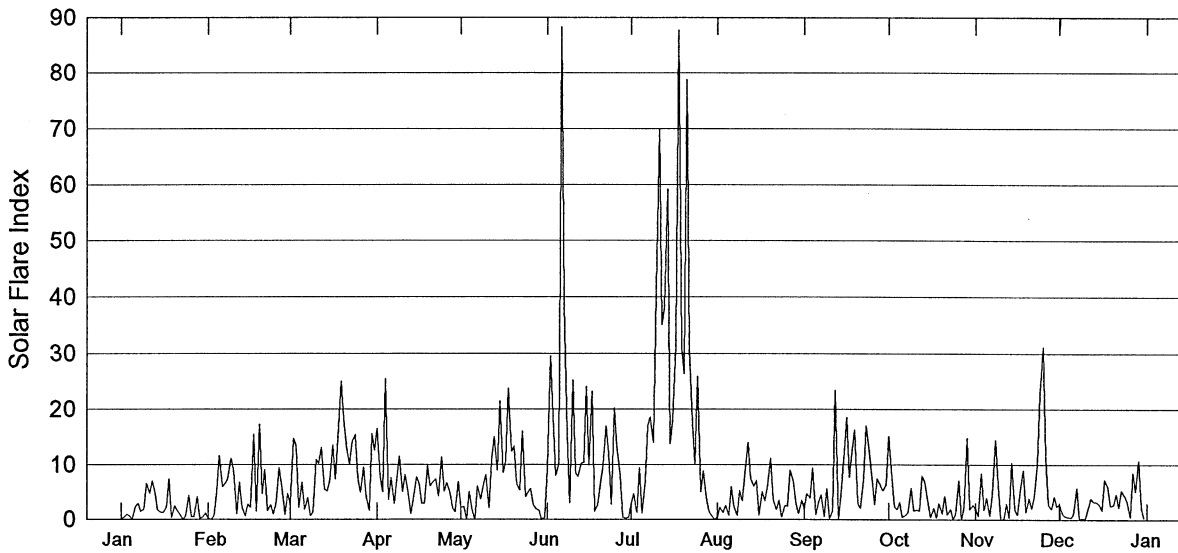
Flare Index of Solar Activity Southern Hemisphere 2000



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.19	1.16	7.40	0.54	4.20	1.89	0.25	0.38	1.13	0.00	1.30
2	0.39	0.09	13.47	3.55	0.51	0.56	2.15	0.15	0.04	5.18	0.15	0.88
3	0.00	0.68	11.06	3.80	0.00	0.00	1.09	0.38	3.83	1.76	1.43	0.00
4	0.00	0.08	2.22	10.58	4.98	0.83	6.63	1.38	8.41	0.00	0.91	0.13
5	0.00	0.00	6.78	1.42	1.15	6.08	0.00	0.65	0.41	2.95	0.30	0.00
6	0.00	1.17	1.66	6.94	0.00	5.00	0.72	0.75	2.13	0.00	0.76	1.05
7	0.00	0.31	3.99	2.79	0.00	4.55	0.79	0.20	0.00	0.00	0.54	5.71
8	0.44	0.14	0.81	6.97	0.00	0.51	6.87	0.54	0.07	0.23	0.06	0.00
9	0.79	7.72	0.84	10.99	0.15	0.00	0.27	0.23	0.17	4.95	6.26	0.00
10	6.40	1.00	10.38	4.82	0.29	3.79	4.80	1.20	0.05	1.01	0.00	0.00
11	4.33	0.50	8.36	7.61	1.89	0.57	7.16	1.90	0.44	1.50	0.00	0.00
12	5.49	0.00	8.07	4.95	5.19	0.78	1.37	3.57	22.98	1.66	2.87	0.00
13	1.18	1.69	5.01	1.10	12.58	0.00	0.37	0.60	0.02	7.44	0.46	0.77
14	1.81	0.27	2.80	3.76	6.79	1.27	4.37	2.48	1.46	3.67	10.37	1.26
15	0.98	0.99	6.89	7.55	13.23	0.49	7.94	3.63	1.13	0.70	1.76	0.24
16	1.03	1.44	7.59	6.22	6.05	1.15	6.67	0.26	3.06	0.36	0.07	1.08
17	2.03	15.42	6.30	2.96	7.23	0.30	17.42	1.34	1.79	1.47	4.50	5.97
18	7.13	1.52	4.90	0.52	7.89	0.00	58.26	2.14	8.55	0.33	3.08	1.22
19	0.28	17.41	3.16	1.30	5.46	0.13	21.66	0.71	3.96	0.79	0.66	0.54
20	2.28	4.76	3.12	1.33	7.78	0.67	14.33	1.02	0.09	1.20	3.50	0.77
21	1.17	8.80	0.67	2.90	4.06	0.40	5.66	0.31	0.26	4.31	0.16	0.22
22	0.95	1.00	1.90	1.56	4.33	0.11	11.48	0.69	1.99	1.03	0.59	1.17
23	0.00	0.26	2.18	0.19	4.10	1.45	10.85	1.23	8.91	1.95	6.53	4.36
24	0.50	0.28	1.57	0.00	1.94	0.27	2.00	0.34	12.56	0.22	1.89	2.87
25	0.73	0.66	3.55	0.19	2.01	7.98	11.00	1.54	1.98	0.00	0.00	3.13
26	0.46	1.17	3.69	3.23	1.88	2.09	0.72	0.35	2.00	1.53	0.00	0.54
27	0.35	4.54	7.55	3.90	2.61	7.41	0.30	7.10	3.29	0.00	0.00	8.45
28	4.15	0.81	3.68	0.22	1.85	0.30	0.00	6.62	4.26	0.12	0.56	5.02
29	0.26	4.51	1.54	0.71	1.67	0.17	0.60	1.89	4.38	0.42	3.02	10.50
30	0.41		14.21	5.77	0.09	0.00	0.00	0.13	5.92	0.00	1.83	2.25
31	1.20		8.87		0.00		0.00	3.50		0.00		0.11
Mean	1.44	2.66	5.10	3.84	3.43	1.70	6.69	1.52	3.48	1.48	1.74	1.92

Flare Index of Solar Activity

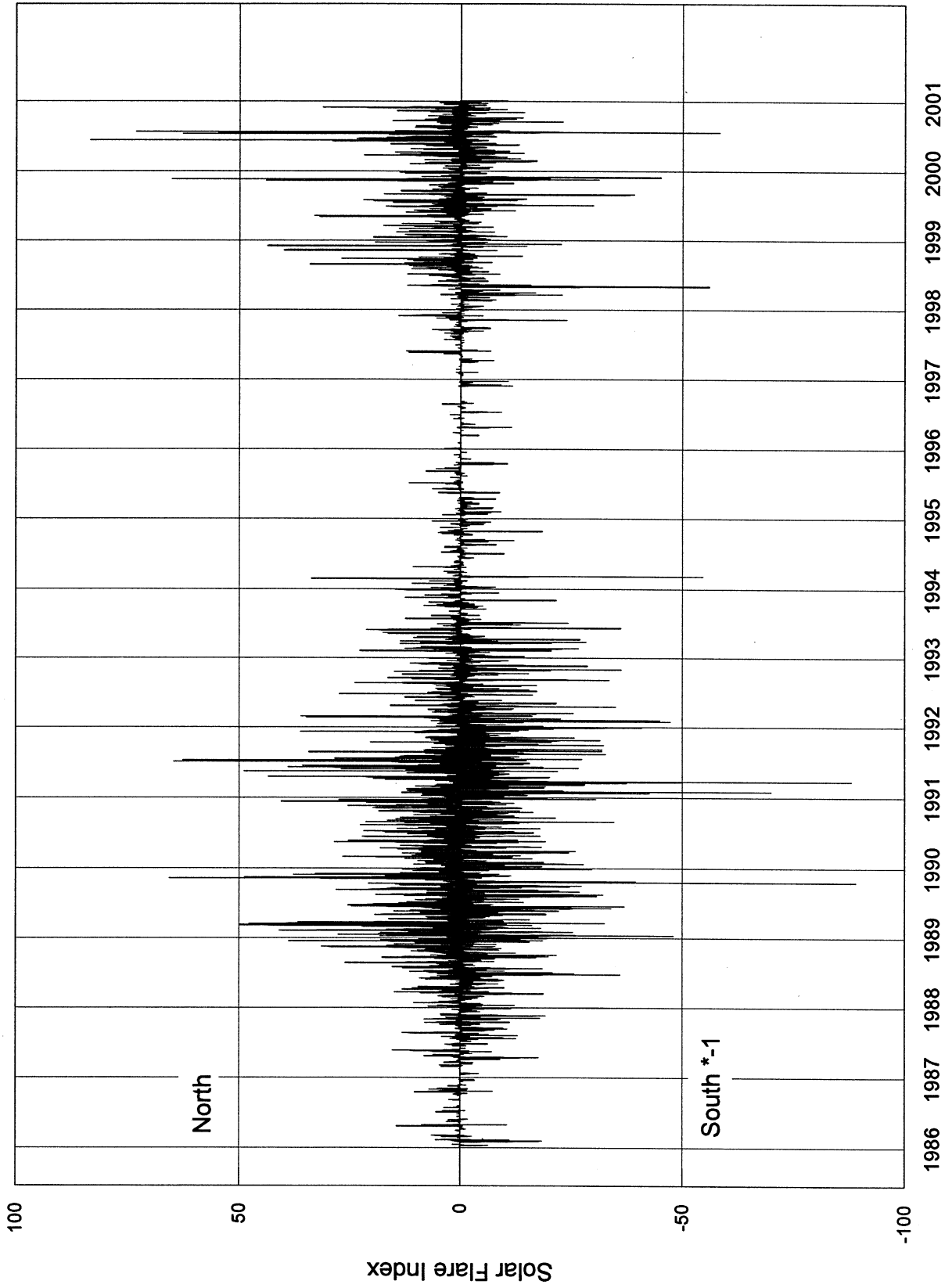
Full Disk 2000



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.17	0.19	2.82	16.44	2.27	9.20	2.92	0.48	2.12	2.26	1.98	2.67
2	0.39	0.09	14.67	7.66	2.35	29.57	4.71	2.23	4.77	10.36	0.72	1.07
3	1.03	0.77	13.37	5.12	0.00	18.87	1.37	1.28	3.91	3.52	8.33	0.64
4	0.62	4.91	2.28	25.45	5.06	8.04	9.45	2.55	9.46	0.00	1.79	0.49
5	0.00	11.58	6.78	3.62	1.55	10.12	1.19	0.88	1.00	5.90	3.96	0.40
6	2.43	5.96	1.92	7.59	0.00	88.39	6.92	6.00	3.13	0.00	0.76	1.05
7	2.92	6.60	3.99	2.94	6.11	38.74	17.00	2.34	4.57	0.00	4.70	5.71
8	1.59	7.43	0.81	7.30	3.71	15.55	18.55	0.86	0.70	0.46	14.45	0.00
9	1.90	11.08	1.28	11.50	6.18	3.00	14.01	5.30	5.59	9.90	6.58	0.28
10	6.61	9.10	10.86	5.02	8.18	25.20	41.18	3.46	0.27	2.02	0.00	0.21
11	4.87	1.07	10.23	8.15	2.09	8.50	69.89	8.38	1.69	3.00	0.23	1.74
12	7.00	6.83	13.00	5.52	10.86	7.84	35.15	13.92	23.38	3.32	2.87	3.85
13	5.22	2.26	5.55	1.10	14.93	10.19	38.14	7.52	0.02	14.88	0.46	3.30
14	1.81	0.71	5.19	3.96	8.96	10.31	59.13	6.13	4.63	7.34	10.37	3.21
15	1.32	2.78	6.89	7.67	21.43	24.06	13.72	7.10	10.71	1.40	1.76	2.78
16	1.30	2.20	13.53	6.41	8.54	9.89	17.83	0.87	18.48	0.72	1.00	1.73
17	2.19	15.42	7.34	2.96	10.50	23.16	31.67	5.11	7.67	2.94	6.03	7.28
18	7.34	1.52	14.83	2.89	23.73	1.53	87.74	3.44	12.34	0.66	8.93	6.09
19	0.46	17.41	25.03	9.79	12.42	2.81	31.02	5.86	16.24	1.58	1.45	2.58
20	2.40	4.76	18.26	6.06	13.32	6.54	26.39	11.17	3.03	2.40	3.78	2.72
21	1.61	9.07	12.63	6.75	6.39	9.63	78.79	3.60	2.13	8.62	2.13	4.65
22	0.95	1.60	10.11	7.39	5.40	16.89	30.92	1.89	7.47	2.06	4.12	2.21
23	0.00	2.69	14.02	4.34	16.03	11.94	17.62	3.51	16.98	3.90	10.12	5.36
24	0.62	1.12	15.30	11.35	4.15	2.82	10.02	0.55	13.16	0.44	22.85	4.43
25	4.40	2.78	7.52	5.17	5.14	20.25	25.90	2.58	7.61	0.00	31.10	3.30
26	0.54	9.41	5.00	6.72	5.70	12.96	5.07	2.48	2.75	3.06	11.31	0.54
27	0.48	6.14	9.53	5.00	2.69	7.99	8.86	8.89	7.44	0.00	2.65	8.45
28	4.21	0.96	4.19	2.06	1.85	0.40	3.75	7.10	6.20	0.24	2.00	5.22
29	0.26	4.77	1.67	1.48	1.67	0.30	1.43	3.06	5.34	0.84	4.17	10.68
30	0.41		15.53	6.87	0.09	0.36	0.72	1.19	6.30	0.00	2.46	2.25
31	1.27		12.55		0.38		0.00	3.50		0.00		0.26
Mean	2.14	5.20	9.25	6.81	6.83	14.50	22.94	4.30	6.96	2.96	5.77	3.07

Flare Activity on the Sun

Jan 1986 - Dec 2000



Monthly Mean Flare Index Jan 1976 - Dec 2000

