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Number 600

(Issued in Two Parts)

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Hα SOLAR FLARES

FEBRUARY 1994

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	KANZ	01	1110	1110	1114	N06	E50	7665	02	5.2	4	SF		2	C				
		02	1922		1930	No Flare Patrol													
		02	2000		2009	No Flare Patrol													
		02	2017		2236	No Flare Patrol													
0002	LEAR	03	0005	0006	0015	N17	E64	7666	02	7.9	10	SF		3	E		18		
0003	LEAR	03	0159	0200	0210	N18	E62	7666	02	7.8	11	SF	B 3.4	3	E		19		
0004	VORO	03	0234	0238	0253	S17	W78		01	28.3	19	SF		2	C	0238	81		D
0005	LEAR	03	0414	0416	0424	N17	E62	7666	02	7.9	10	SF	C 1.5	3	E		35		
0006	LEAR	03	0457	0459	0503	N18	E62	7666	02	7.9	6	SF	B 5.0	3	E		29		
		03	1319		1330	No Flare Patrol													
0007	HOLL	03	1836	1843	1905	N13	W48	7663	01	31.1	29	SF	C 1.1	3	E		48		
		03	1950		2005	No Flare Patrol													
		03	2147		2233	No Flare Patrol													
0008	LEAR	04	0732	0732	0737	S18	W48	7662	01	31.6	5	SF	B 4.8	3	E		26		F
		04	1541		1603	No Flare Patrol													
		04	1917		2006	No Flare Patrol													
		04	2110		2223	No Flare Patrol													
		04	2233		2237	No Flare Patrol													
		05	1046		1049	No Flare Patrol													
		05	1051		1109	No Flare Patrol													
		05	2033		2037	No Flare Patrol													
		05	2041		2229	No Flare Patrol													
0009	SVTO	06	0742	0747	0755	S10	W24	7664	02	4.5	13	SF		3	E		12		
0010		06	08132	08163	0824	S10	W24	7664	02	4.5	11	SF	B 5.0				18		F
	LEAR	06	0813	0816	0826	S10	W25	7664	02	4.5	13	SF	B 5.0	3	E		24		F
	SVTO	06	0815	0819	0823	S10	W24	7664	02	4.5	8	SF		3	E		11		F
		06	1109		1132	No Flare Patrol													
0011	RAMY	06	1300	1321	1340	S13	W30	7664	02	4.3	40	SF	B 7.9	4	E		20		F
0012	LEAR	07	0452	0453	0456	S12	W39	7664	02	4.3	4	SF	B 6.4	3	E		25		F
		07	1046		1125	No Flare Patrol													
0013		07	13509	1359	1434	S12	W43	7664	02	4.3	44	SF	B 8.2				40		F
	SVTO	07	1350	1359	1439	S12	W42	7664	02	4.4	49	SF	B 8.2	3	E		47		
	RAMY	07	1359	1359	1429	S13	W44	7664	02	4.3	30	SF		3	E		34		F
		07	1813		1910	No Flare Patrol													
		07	2123		2142	No Flare Patrol													
		07	2216		2223	No Flare Patrol													
		07	2235		2239	No Flare Patrol													
		08	0039		0052	No Flare Patrol													
0014	SVTO	08	0746	0817	0837	N07	E60	7668	02	12.8	51	1F		3	E		101		
0015	KHAR	08	0926E		0935U	N09	E58	7668	02	12.7	9U	SF		2	V	0927			D
0016		08	09573	09593	1007	N08	E58	7668	02	12.8	10	SF					13		E
	SVTO	08	0957	0959	1007	N07	E59	7668	02	12.8	10	SF		3	E		14		
	LEAR	08	1000	1000	1003	N09	E57	7668	02	12.7	3	SF		3	E		12		
	KHAR	08	1000	1002	1010	N09	E58	7668	02	12.8	10	SF		2	P	1002			E
0017	KHAR	08	1020	1022	1028	N09	E58	7668	02	12.8	8	SF		2	V	1022			E

FEBRUARY 1994

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0018	KHAR	08	1146	1148	1152	N08	E58	7668	02	12.8	6	SF		2	V	1148			E
0019	RAMY	08	1305	1312	1328	N08	E55	7668	02	12.7	23	SF		3	E		15		
0020	HTPR	08	1340	1351	1441	N09	E60	7668	02	13.1	61	SF			C	1351	110	1.8	E
0021	RAMY	08	1603	1628	1633	N08	E54	7668	02	12.7	30	SF	B 7.3	3	E		21		
0022	RAMY	08	1750	1753	1833	N08	E53	7668	02	12.7	43	SF		3	E		25		
		08	1804		1825	No Flare Patrol													
		08	1846		1915	No Flare Patrol													
0023	RAMY	08	1917	1921	1932	N08	E52	7668	02	12.7	15	SF		3	E		22		
		08	2010		2040	No Flare Patrol													
		08	2130		2139	No Flare Patrol													
		08	2211		2232	No Flare Patrol													
0024		09	01376	01431	0200	N07	E50	7668	02	12.8	23	SN	B 3.2				44	1.0	D
	LEAR	09	0137	0144	0215	N09	E50	7668	02	12.8	38	SF	B 3.2	3	E		28		
	MITK	09	0143	0143	0146	N05	E51	7668	02	12.9	3	SN			C	0143	59	1.0	D
0025	MITK	09	0159	0159	0203	N05	E50	7668	02	12.8	4	SN			C	0159	59	1.0	D
0026	LEAR	09	0307	0307	0309	N09	E49	7668	02	12.8	2	SF	B 2.7	3	E		35		F
0027	LEAR	09	0559	0602	0613	N09	E48	7668	02	12.8	14	SF		3	E		20		
0028	HTPR	09	1211	1215	1220	S10	W70	7664	02	4.2	9	SF			C	1215	20		
0029	HTPR	09	1323	1325	1347	S10	W70	7664	02	4.3	24	SF			C	1325	30		
0030		09	18061	18062	1844	S11	W72	7664	02	4.3	38	SF	C 3.0				12		F
	RAMY	09	1806	1806	1844	S12	W71	7664	02	4.4	38	SF	C 3.0	3	E		11		F
	HOLL	09	1807	1808	1816D	S10	W72	7664	02	4.3	9D	SF		3	E		12		F
0031		09	1904	19056	1918	N18	W22	7666	02	8.1	14	SF					38		FU
	HOLL	09	1904	1905	1917	N19	W22	7666	02	8.1	13	SF		3	E		40		UF
	RAMY	09	1904	1911	1919	N18	W23	7666	02	8.0	15	SF		3	E		35		F
		09	2135		2152	No Flare Patrol													
		09	2159		2214	No Flare Patrol													
		10	1036		1100	No Flare Patrol													
		10	1110		1114	No Flare Patrol													
0032		10	13454	13463	1356	N11	E34	7668	02	13.1	11	SF					100	1.3	D
	HTPR	10	1345	1346	1358	N12	E35	7668	02	13.2	13	SF			C	1346	100	1.3	D
	KANZ	10	1349	1349	1353	N10	E33	7668	02	13.0	4	SF		2	C				
0033	KANZ	10	1353	1353	1357	S15	W79	7664	02	4.6	4	SF		2	C				
		11	1122		1126	No Flare Patrol													
0034		11	1840	18402	1846	N19	W51	7666	02	7.9	6	SF					14		F
	RAMY	11	1840	1840	1846	N18	W51	7666	02	7.9	6	SF		3	E		10		F
	HOLL	11	1840	1842	1847	N20	W51	7666	02	7.9	7	SF		3	E		19		F
		11	2207		2226	No Flare Patrol													
		11	2251		2322	No Flare Patrol													
		11	2334		2350	No Flare Patrol													
		11	2352		2400	No Flare Patrol													
		12	0000		0010	No Flare Patrol													
0035	KHAR	12	1118	1119	1131	N10	E85	7670	02	18.8	13	SF		2	V	1119			D
0036	LEAR	12	2329	2333	2403	N07	W03	7668	02	12.7	34	SF	C 1.0	3	E		38		FU
		13	2129		2133	No Flare Patrol													
		13	2148		2157	No Flare Patrol													

Hα SOLAR FLARES

FEBRUARY 1994

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP	Mo	Day	Dur (Min)	Imp	Opt	Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		13	2214		2218	No Flare Patrol															
		14	1046		1127	No Flare Patrol															
		14	1158		1225	No Flare Patrol															
		14	1258		1701	No Flare Patrol															
		14	1833		2051	No Flare Patrol															
		14	2110		2226	No Flare Patrol															
		14	2252		2253	No Flare Patrol															
0037	VORO	15	0131	0133	0143	N02	W34	7668		02	12.5	12	SF			2	C	0133	108	1.3	EJ
0038	LEAR	15	0348	0350	0358	N12	E49	7670		02	18.8	10	SF	C	1.0	3	E		40		F
0039	LEAR	15	0555	0555	0601	N10	E47	7670		02	18.8	6	SF	C	1.1	3	E		11		
0040		15	07511	07524	0820	N09	E64	7671		02	20.1	29	SF	C	1.8				14		F
	LEAR	15	0751	0752	0820	N09	E63	7671		02	20.0	29	SF	C	1.8	3	E		14		F
	KANZ	15	0752	0756	0800D	N09	E65	7671		02	20.2	8D	SF			2	C				
		15	1030		1052	No Flare Patrol															
		15	1057		1129	No Flare Patrol															
		15	1153		1211	No Flare Patrol															
0041	HTPR	16	0809	0816	0821	N09	E30	7670		02	18.6	12	1N				C	0816	260	3.2	
0042	HTPR	16	0838	0852	0900D	N07	W46	7668		02	12.9	22D	SF				C	0852	90	1.3	D
0043	KHAR	16	1133U	1134U	1141	N06	W47	7668		02	13.0	8U	SF			2	V	1134			DL
		16	1201		1229	No Flare Patrol															
0044		16	15052	15081	1521	N08	E26	7670		02	18.6	16	SF	B	5.6				30		F
	RAMY	16	1505	1509	1527	N08	E27	7670		02	18.6	22	SF			3	E		42		
	HOLL	16	1507	1508	1515	N07	E25	7670		02	18.5	8	SF	B	5.6	3	E		19		F
0045	HOLL	16	1911	1912	1915	N10	W51	7668		02	13.0	4	SF			3	E		55		H
0046		17	02555	0300	0303	N12	E22	7670		02	18.8	8	SF						44	0.9	F
	YUNN	17	0255	0300	0319D	N13	E21	7670		02	18.7	24D	SF				P		79	0.9	F
	LEAR	17	0300	0300	0303	N11	E23	7670		02	18.8	3	SF			3	E		10		
0047	HTPR	17	1153E		1207D	N08	W64	7668		02	12.7	14D	1N				C	1157	170	3.6	E
0048		18	05411	05431	0548	N06	E25	7671		02	20.1	7	SN	C	1.1				47	0.7	EF
	LEAR	18	0541	0543	0550	N07	E24	7671		02	20.0	9	SF	C	1.1	3	E		34		F
	MITK	18	0542	0544	0547	N05	E26	7671		02	20.2	5	SN				C	0544	60	0.7	E
0049		18	09241	09475	1041	N14	E08	7670		02	19.0	77	2N						480	5.3	E
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	RAMY	18	1319	1319	1323	N08	E21	7671		02	20.1	4	SF	B	5.6	3	E		11		
	KANZ	18	1320	1320	1328	N08	E22	7671		02	20.2	8	SF			2	C				
0051		19	10496	10514	1058	N08	E08	7671		02	20.0	9	SF						110	1.2	
	HTPR	19	1049	1051	1057	N09	E09	7671		02	20.1	8	SF				C	1051	110	1.2	
	KANZ	19	1055	1055	1059	N08	E08	7671		02	20.0	4	SF			2	C				
		19	2058		2137	No Flare Patrol															
		19	2152		2237	No Flare Patrol															
		19	2339		2346	No Flare Patrol															
0052	MITK	20	0109	0117	0234	N09	W09	7670		02	19.4	85	1B				C	0117	444	4.8	F
0053	LEAR	20	0138E	0138U	0308D	N09	W02	7671		02	19.9	90D	3B	M	4.0	1	E		707		UZ
0054	YUNN	20	0234E	0239U	0325	N05	W12	7670		02	19.2	51D	2B				P		550	5.9	F
		20	0445		0705	No Flare Patrol															

FEBRUARY 1994

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp	Opt	Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0055		20	07451	07482	0806	N06	W02	7671	02	20.2	21	SN						168	1.7	E
	CATA	20	0745	0748	0748D	N07	W03	7671	02	20.1	3D	SB			1	C	0748	168	1.7	
	KANZ	20	0746	0750	0806	N05	W02	7671	02	20.2	20	SF			2	C				E
		20	0941		0948	No Flare Patrol														
		20	1028		1031	No Flare Patrol														
0056	SVTO	20	1356	1357	1401	N07	W06	7671	02	20.1	5	SF	B	3.9	3	E		14		
0057	RAMY	20	1558	1600	1608	N12	W26	7670	02	18.7	10	SF	B	4.2	3	E		16		F
		20	1625		1714	No Flare Patrol														
		20	1811		2124	No Flare Patrol														
		21	0012		0252	No Flare Patrol														
		21	0323		0710	No Flare Patrol														
		21	0715		0724	No Flare Patrol														
0058	KANZ	21	0813	0813	0817	N09	W16	7671	02	20.1	4	SF			2	C				
		21	1805		1820	No Flare Patrol														
		21	1844		2343	No Flare Patrol														
		22	2002		2051	No Flare Patrol														
		22	2102		2125	No Flare Patrol														
		22	2130		2150	No Flare Patrol														
		22	2206		2238	No Flare Patrol														
		24	0912		0951	No Flare Patrol														
		24	0956		1036	No Flare Patrol														
		24	1045		1055	No Flare Patrol														
		24	1101		1153	No Flare Patrol														
		24	1206		1212	No Flare Patrol														
0059	HOLL	24	2111	2117	2121	N12	W66	7670	02	19.9	10	SF			3	E		15		
0060	HOLL	25	0010	0012	0017	N14	W68	7670	02	19.9	7	SF			3	E		22		
		25	0608		0627	No Flare Patrol														
0061		25	08042	08082	0814	N08	W68	7671	02	20.2	10	SF						10		
	HTPR	25	0804	0808	0815	N10	W70	7671	02	20.1	11	SF				C	0808	10		
	KANZ	25	0806	0810	0814	N06	W67	7671	02	20.3	8	SF			2	C				
0062	HTPR	25	0831	0834	0837	N10	W70	7671	02	20.1	6	SF				C	0834	20		E
		25	1000		1006	No Flare Patrol														
		25	1042		1044	No Flare Patrol														
		26	0043		0206	No Flare Patrol														
		26	0235		0357	No Flare Patrol														
		26	0507		0527	No Flare Patrol														
		26	0541		0558	No Flare Patrol														
0063	HTPR	26	1309	1336	1404	S10	E90	7680	03	5.3	55	SN				C	1336			A
0064	HOLL	26	2327	2336	2410	S12	W10	7675	02	26.2	43	SF	B	5.5	3	E		65		FH
		27	0352		0401	No Flare Patrol														
0065	MITK	27	0431	0435	0437	S17	E55	7678	03	3.4	6	SN				C	0435	41	0.7	D
		27	0517		0542	No Flare Patrol														
		27	0548		0549	No Flare Patrol														
0066	HOLL	27	1538	1539	1542	S14	E71	7680	03	5.0	4	SF	B	6.1	3	E		18		
		28	1409		1425	No Flare Patrol														
		28	1427		1428	No Flare Patrol														
0067		28	15381	15403	1554	S12	E56	7680	03	4.9	16	SF						12		
	RAMY	28	1538	1543	1557	S12	E56	7680	03	4.9	19	SF			3	E		11		
	HOLL	28	1539	1540	1551	S13	E57	7680	03	4.9	12	SF			3	E		13		

Hα SOLAR FLARES

FEBRUARY 1994

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		28	1734		1838	No Flare Patrol													
		28	1917		1929	No Flare Patrol													
		28	2022		2030	No Flare Patrol													
		28	2236		2256	No Flare Patrol													

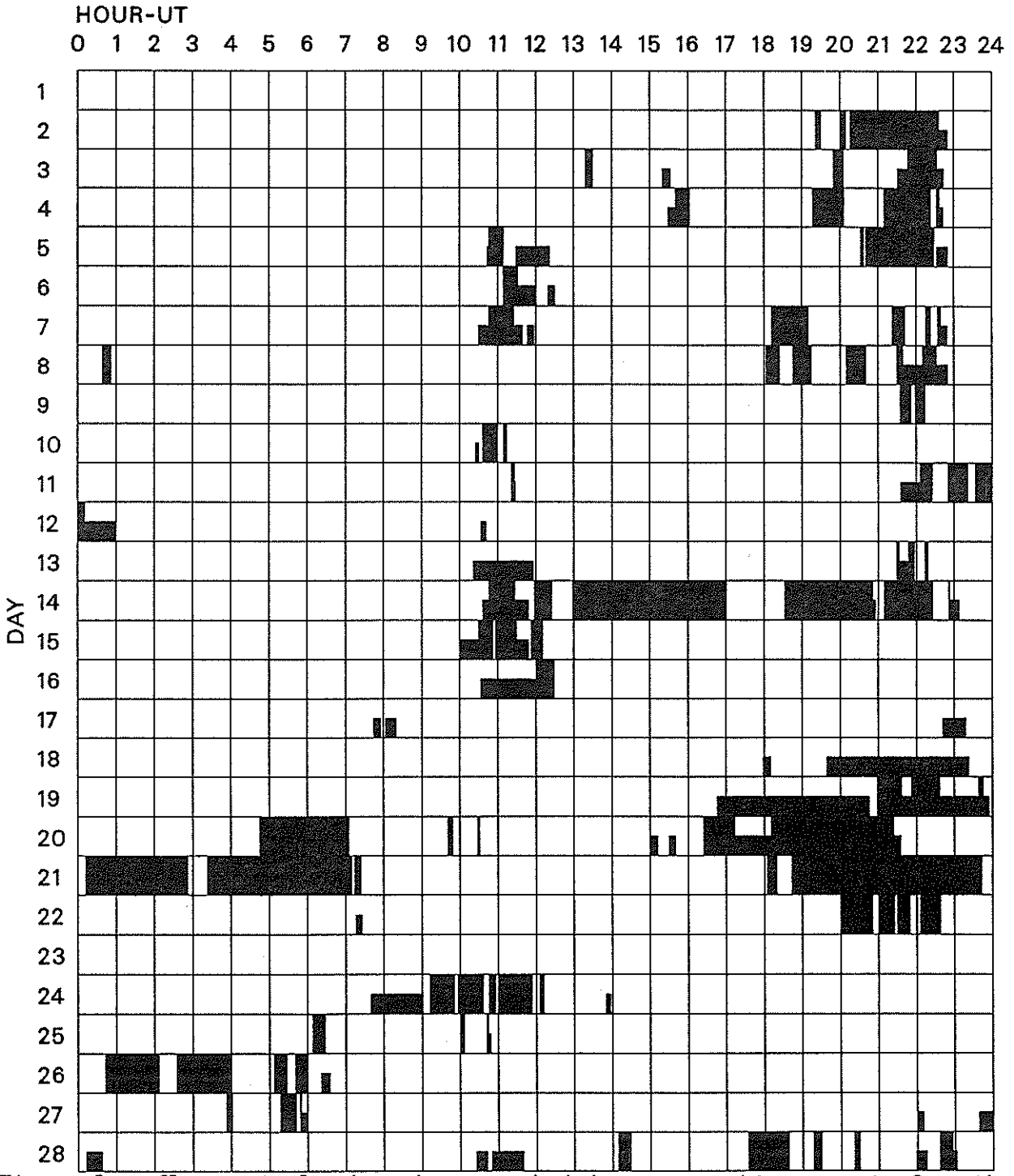
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

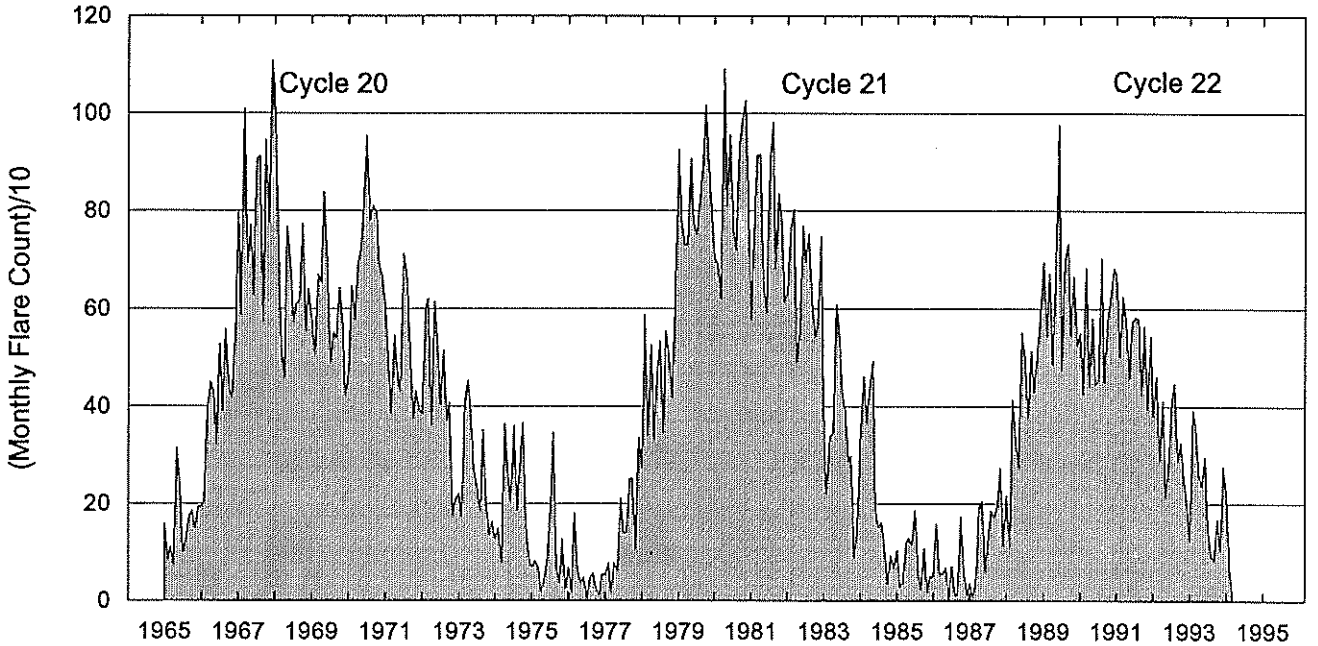
FEBRUARY 1994



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual nor cinematographic); portions of a panel with only the bottom half shaded mark times of only visual patrol.

Athens	Holloman	Learmonth	San Vito
Catania	Istanbul	Mitaka	Voroshilov
Haute Province	Kanzelhoehe	Ramey	

Monthly Counts of Grouped Solar Flares
Jan 1965 - Feb 1994



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											284

Monthly totals for the last 6 months may change significantly, as more stations submit their reports. The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.
NOTE: Counts for 1993 were updated to reflect the addition of Catania data.

S O L A R R A D I O E M I S S I O N
Selected Fixed Frequency Events

FEBRUARY 1994

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	245	SVTO	8	S	0748.0	0749.0	1.0	57.0			QL=2 ST=2 TYP=3
	9500	CUBA	20	GRF	1050.0	2056.0	606.0D	10.0	9.0		SUNSET
02	235	CUBA	44	NS	1415.0E		395.0D		9.0		
	280	CUBA	44	NS	1420.0E		410.0D		16.0		
03	280	CUBA	44	NS	1415.0E		205.0D		17.0		
	235	CUBA	44	NS	1515.0E		225.0D		13.0		
	245	PALE	8	S	0043.0	0043.0	1.0	48.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0043.0	0043.0	1.0	26.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0135.0	0135.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0135.0	0135.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0149.0	0149.0	U	73.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0149.0	0149.0	U	22.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1734.0	1734.0	U	61.0			QL=4 ST=2 TYP=3
04	235	CUBA	44	NS	1400.0E		420.0D		10.0		
	280	CUBA	44	NS	1645.0E		255.0D		17.0		
06	2950	GORK	1	S	0815.3	0815.9	1.0	1.3			
	245	SVTO	8	S	0836.0	0836.0	1.0	70.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0836.0	0836.0	U	49.0			QL=2 ST=2 TYP=3
07	235	CUBA	44	NS	1400.0E		420.0D		12.0		
	280	CUBA	44	NS	1400.0E		450.0D		18.0		
	2800	HIRA	1	S	0451.5	0452.1	2.0	8.0	4.0		O
08	127	TORN	44	NS	1200.0E		180.0D		4.0		V=1
	280	CUBA	44	NS	1900.0E		120.0D		16.0		
	235	CUBA	44	NS	1933.0E		127.0D		10.0		
	245	SVTO	8	S	1044.0	1044.0	1.0	160.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1044.0	1044.0	U	41.0			QL=2 ST=2 TYP=3
09	204	IZMI	43	NS	0700.0		300.0D		5.0		
	127	TORN	43	NS	0933.0		70.0		5.0		V=1
	280	CUBA	44	NS	1700.0E		120.0D		10.0		
	235	CUBA	44	NS	1700.0E		120.0D		9.0		
	500	HIRA	41	F	0305.8	0306.0	2.0	3.0			O
	245	SGMR	8	S	1909.0	1909.0	U	61.0			QL=4 ST=2 TYP=3
10	204	IZMI	44	NS	0700.0E		300.0D		7.0		
	235	CUBA	44	NS	1500.0E		240.0D		12.0		
	280	CUBA	44	NS	1500.0E		240.0D		10.0		
	245	SGMR	4	S/F	1400.0	1403.0	4.0	57.0			QL=4 ST=2 TYP=3
11	280	CUBA	44	NS	1700.0E		40.0D		16.0		
	204	IZMI	41	F	0827.0	0827.2	1.5	24.0			
	204	IZMI	41	F	0959.0	0959.2	1.0	11.0			
12	245	LEAR	43	NS	0248.0	0248.0	479.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0349.0	0350.0	22.0	55.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0653.0	0801.0	187.0	120.0			QL=2 ST=2 TYP=1
	204	IZMI	43	NS	0700.0		300.0D		40.0		
	235	CUBA	44	NS	1440.0E		410.0D		15.0		
	280	CUBA	44	NS	1445.0E		405.0D		22.0		
	245	PALE	8	S	0248.0	0248.0	1.0	140.0			QL=4 ST=2 TYP=3
13	245	LEAR	43	NS	0440.0	0440.0	367.0	54.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	235	CUBA	44	NS	1420.0E		400.0D		10.0		
	280	CUBA	44	NS	1420.0E		430.0D		16.0		
	204	IZMI	41	F	0934.5	0934.8	2.0	103.0			
	245	SVTO	8	S	1056.0	1056.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2101.0	2101.0	1.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2101.0	2101.0	1.0	190.0			QL=2 ST=2 TYP=3
14	127	TORN	44	NS	0820.0E		360.0D		1.0		V=1,DISTURBED
	235	CUBA	44	NS	1440.0E		260.0D		13.0		
	950	GORK	1	S	0607.1	0607.4	1.3	3.0			

S O L A R R A D I O E M I S S I O N
Selected Fixed Frequency Events

FEBRUARY 1994

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	2950	GORK	1	S	0607.1	0607.9	1.3	0.6			
	9100	GORK	1	S	0607.5	0607.7	1.0	14.0			
	204	IZMI	7	C	1013.5	1013.8	2.0	300.0			
	33	UPIC	8	S	1013.7	1014.0	1.1				
	2950	GORK	1	S	1013.7	1013.9	0.4	1.2			
	127	TORN	46	C	1024.3	1024.8	5.0	410.0	40.0		UNCERTAIN
15	2695	SVTO	20	GRF	0748.0	0753.0	19.0	15.0			QL=4 ST=3 TYP=2
	4995	SVTO	20	GRF	0748.0	0751.0	19.0	18.0			QL=4 ST=2 TYP=2
	8800	SVTO	20	GRF	0748.0	0750.0	18.0	16.0			QL=4 ST=3 TYP=2
	2950	GORK	21	GRF	0748.7	0755.0	33.5	4.1			
	15400	SVTO	20	GRF	0749.0	0750.0	17.0	24.0			QL=4 ST=2 TYP=2
	9100	GORK	2	S/F	0749.2	0749.8	6.2	14.0			
	2950	GORK	2	S/F	0749.3	0751.2	5.7	6.8			
16	280	CUBA	44	NS	1650.0E		150.0D		16.0		
	245	SVTO	4	S/F	0818.0	0820.0	8.0	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0820.0	0820.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0820.0	0820.0	U	63.0			QL=4 ST=3 TYP=3
	204	IZMI	42	SER	0903.0	0903.2	15.0	75.0			
	245	SVTO	8	S	1340.0	1340.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2008.0	2008.0	1.0	59.0			QL=4 ST=2 TYP=3
17	280	CUBA	44	NS	1700.0E		200.0D		17.0		
	245	LEAR	8	S	0752.0	0752.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0752.0	0752.0	1.0	96.0			QL=2 ST=2 TYP=3
	204	IZMI	7	C	1016.0	1021.5	10.0	36.0			
	2950	GORK	21	GRF	1018.7	1022.6	15.8	3.5			
	3013	IZMI	5	S	1018.8	1019.8	12.0	11.0	5.0		
	950	GORK	1	S	1019.0	1020.4	8.1	12.0			
	2950	GORK	2	S/F	1019.5	1019.8	3.1	8.4			
	127	TORN	8	S	1021.6	1022.0	1.3	100.0	50.0		
	3013	IZMI	7	C	1102.0	1103.5	6.0	13.0	6.0		
	2950	GORK	2	S/F	1102.6	1103.6	4.1	13.3			
	950	GORK	1	S	1103.2	1103.2	2.4	3.0			
	410	SVTO	8	S	1135.0	1135.0	1.0	79.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1152.0	1152.0	1.0	60.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1235.0	1237.0	6.0	31.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1235.0	1237.0	9.0	80.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1235.0	1237.0	6.0	120.0			QL=2 ST=3 TYP=5
	245	SVTO	8	S	1235.0	1237.0	2.0	47.0			QL=2 ST=3 TYP=3
	245	SVTO	8	S	1316.0	1317.0	2.0	95.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1316.0	1317.0	2.0	50.0			QL=2 ST=2 TYP=3
18	235	CUBA	44	NS	1700.0E		225.0D		9.0		
	280	CUBA	44	NS	1700.0E		225.0D		16.0		
	245	LEAR	8	S	0328.0	0328.0	U	320.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	0540.1	0540.5	4.0	8.0	4.0		O
	2950	GORK	2	S/F	0540.4	0540.8	3.8	4.7			
	9100	GORK	1	S	0540.5	0540.7	0.6	8.5			
19	235	CUBA	44	NS	1721.0E		254.0D		9.0		
	280	CUBA	44	NS	1725.0E		200.0D		16.0		
20	245	PALE	43	NS	0230.0	0312.0U	88.0	100.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0232.0	0232.0	103.0	78.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	0248.0	0248.0	102.0	75.0			QL=4 ST=3 TYP=1
	127	TORN	43	NS	0930.0		330.0U		1.0		V=1,UNCERTAIN
	235	CUBA	44	NS	1416.0E		224.0D		10.0		
	280	CUBA	44	NS	1610.0E		270.0D		14.0		
	2840	PEKG	46	C	0100.0	0110.0		164.0			
	2840	PEKG	46	C	0100.0	0116.5	100.0	96.0			
	500	HIRA	29	PBI	0102.0	0200.0	110.0	20.0	10.0		WR
	500	HIRA	48	C	0102.0	0135.8	58.0	810.0	300.0		MR
	2800	HIRA	21	GRF	0103.0	0119.3	165.0	102.0	40.0		O
	2695	PALE	4	S/F	0105.0	0114.0	85.0	190.0			QL=2 ST=2 TYP=3
	410	PALE	4	S/F	0105.0	0109.0	85.0	310.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0105.0	0121.0	85.0	2400.0			QL=2 ST=2 TYP=7
	610	PALE	49	GB	0105.0	0110.0	85.0	500.0			QL=2 ST=2 TYP=6

S O L A R R A D I O E M I S S I O N
Selected Fixed Frequency Events

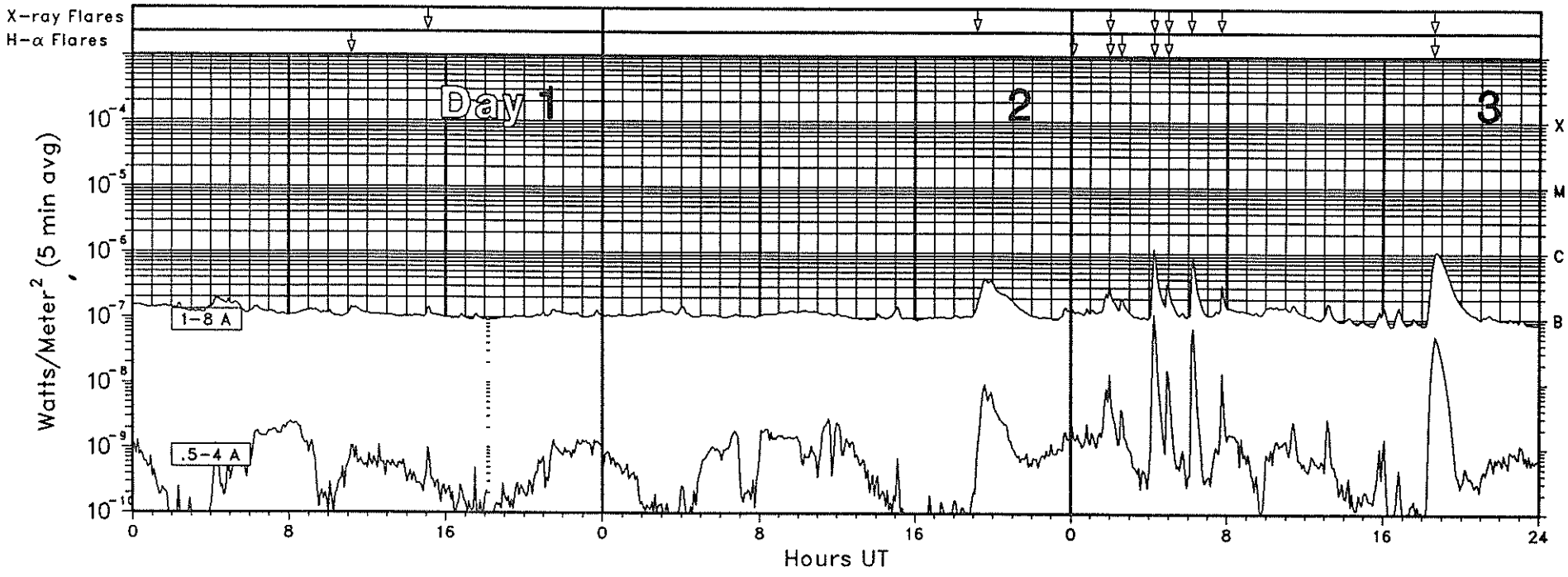
FEBRUARY 1994

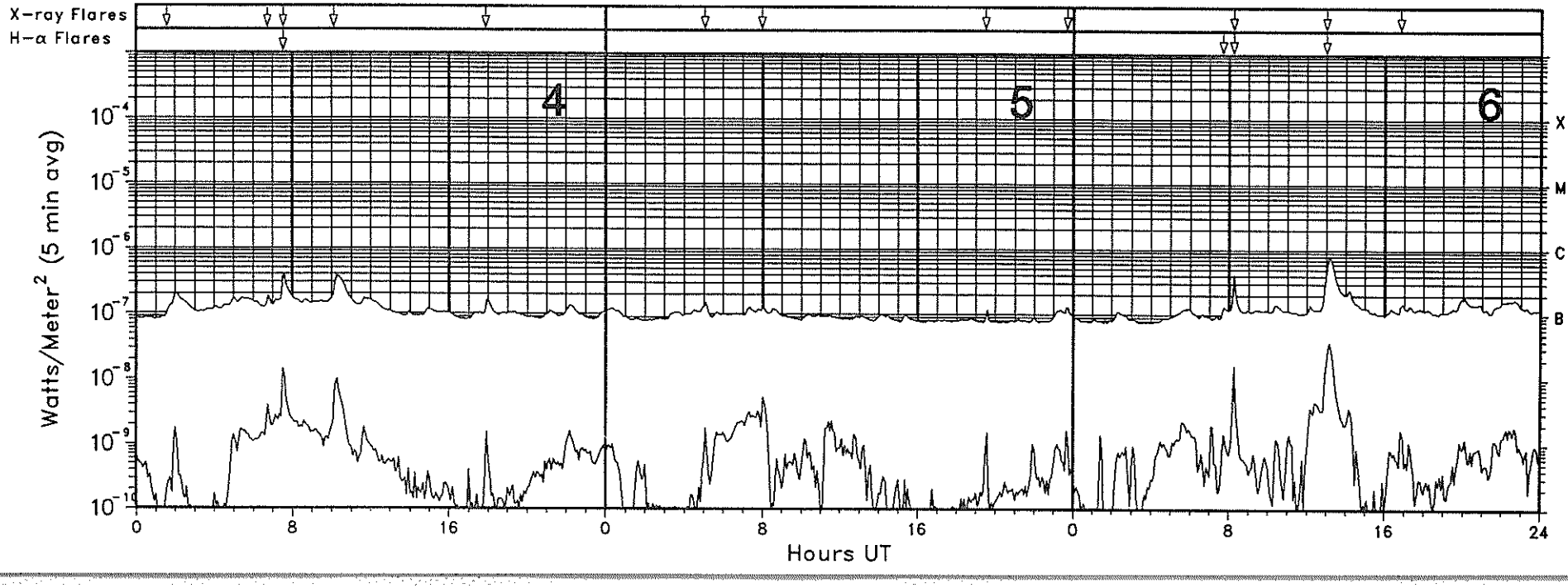
Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
20	4995	PALE	4	S/F	0105.0	0119.0	85.0	120.0			QL=2 ST=2 TYP=3
	1415	PALE	4	S/F	0105.0	0119.0	85.0	220.0			QL=2 ST=2 TYP=3
	610	LEAR	49	GB	0106.0	0135.0	65.0	3000.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	0106.0E	0135.0	84.0D	3600.0			QL=2 ST=3 TYP=7
	245	LEAR	49	GB	0106.0	0140.0	102.0	2400.0			QL=4 ST=2 TYP=7
	410	LEAR	49	GB	0107.0	0140.0	85.0	3300.0			QL=4 ST=2 TYP=7
	1415	LEAR	4	S/F	0107.0	0136.0	85.0	280.0			QL=4 ST=2 TYP=5
	410	PALE	49	GB	0107.0E	0140.0	83.0D	3200.0			QL=2 ST=3 TYP=7
	1415	PALE	4	S/F	0107.0E	0136.0	83.0D	330.0			QL=2 ST=3 TYP=5
	4995	LEAR	20	GRF	0108.0	0141.0	84.0	130.0			QL=4 ST=2 TYP=2
	4995	PALE	20	GRF	0108.0E	0146.0	82.0D	140.0			QL=2 ST=3 TYP=2
	2695	LEAR	4	S/F	0109.0	0114.0	83.0	190.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0109.0E	0114.0	81.0D	190.0			QL=2 ST=3 TYP=3
	15400	PALE	20	GRF	0113.0E	0146.0	77.0D	110.0			QL=2 ST=3 TYP=2
	245	PALE	49	GB	0113.0E	0135.0	77.0D	2400.0			QL=2 ST=3 TYP=7
	15400	LEAR	4	S/F	0114.0	0134.0	78.0	140.0			QL=4 ST=2 TYP=5
	8800	LEAR	20	GRF	0114.0	0147.0	78.0	92.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	0114.0E	0142.0	76.0D	70.0			QL=2 ST=3 TYP=5
21	2800	HIRA	1	S	0501.5	0501.6	1.0	4.0	2.0		O
	9500	CUBA	20	GRF	1504.0	1650.0U	114.0D	20.0			1650 OFF
22	235	CUBA	44	NS	1700.0E		275.0D		10.0		
	280	CUBA	44	NS	1700.0E		275.0D		17.0		
23	500	HIRA	41	F	0137.6	0140.8	9.0	6.0			O
	410	SVTO	8	S	0844.0	0844.0	U	290.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0844.0	0844.0	U	77.0			QL=4 ST=2 TYP=3
	2800	PENT	20	GRF	1723.8	2120.7	410.0	13.7	6.0		
24	280	CUBA	44	NS	1410.0E		400.0D		17.0		
	235	CUBA	44	NS	1430.0E		420.0D		9.0		
25	235	CUBA	44	NS	1357.0E		420.0D		10.0		
	280	CUBA	44	NS	1357.0E		420.0D		16.0		
	245	PALE	8	S	0216.0	0217.0	1.0	140.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0809.0	0810.0	2.7	2.9			
	3013	IZMI	5	S	0809.0	0810.0	3.5	3.0	2.0		
26	235	CUBA	44	NS	1235.0E		465.0D		10.0		
	280	CUBA	44	NS	1335.0E		465.0D		15.0		
	610	PALE	49	GB	0126.0	0127.0	3.0	670.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	1011.0	1011.5	2.0	180.0			
27	127	TORN	27	RF	0805.0	0809.7	17.0	50.0	10.0		
	3013	IZMI	45	C	0856.5	0908.0	43.0	127.0			
	2950	GORK	21	GRF	0857.0	1009.0	183.0D	8.9			
	2840	PEKG	46	C	0859.0	0907.0		122.0			
	9100	GORK	21	GRF	0900.0	0927.0	180.0D	18.0			
	2950	GORK	46	C	0902.6	0915.6		81.0			
	2950	GORK	46	C	0902.6	0907.8	27.8	85.0			
	2695	LEAR	4	S/F	0903.0	0907.0	19.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0903.5	0908.3	16.0	40.0			
	950	GORK	20	GRF	0903.6	0907.4	17.4	8.0			
	1415	LEAR	4	S/F	0904.0	0907.0	5.0	36.0			QL=4 ST=2 TYP=3
	4995	LEAR	20	GRF	0904.0	0907.0	18.0	110.0			QL=4 ST=2 TYP=2
	4995	SVTO	20	GRF	0904.0	0907.0	17.0	100.0			QL=4 ST=2 TYP=2
	2695	SVTO	4	S/F	0904.0	0907.0	16.0	95.0			QL=4 ST=2 TYP=3
	9100	GORK	7	C	0904.1	0916.1		47.0			
	9100	GORK	7	C	0904.1	0908.1	21.7	50.0			
	1415	SVTO	4	S/F	0905.0	0907.0	3.0	29.0			QL=4 ST=2 TYP=3
	15400	LEAR	20	GRF	0906.0	0916.0	19.0	44.0			QL=4 ST=2 TYP=2
	8800	LEAR	4	S/F	0906.0	0907.0	15.0	55.0			QL=4 ST=2 TYP=3
	8800	SVTO	20	GRF	0906.0	0915.0	15.0	52.0			QL=4 ST=2 TYP=2
	15400	SVTO	8	S	0907.0	0908.0	2.0	30.0			QL=4 ST=2 TYP=3
28	204	IZMI	42	SER	0723.0	0730.0	28.0	82.0			
	410	PALE	4	S/F	1957.0	1957.0	243.0	140.0			QL=4 ST=1 TYP=3

GOES-7 X-RAY DETECTOR

February 1994

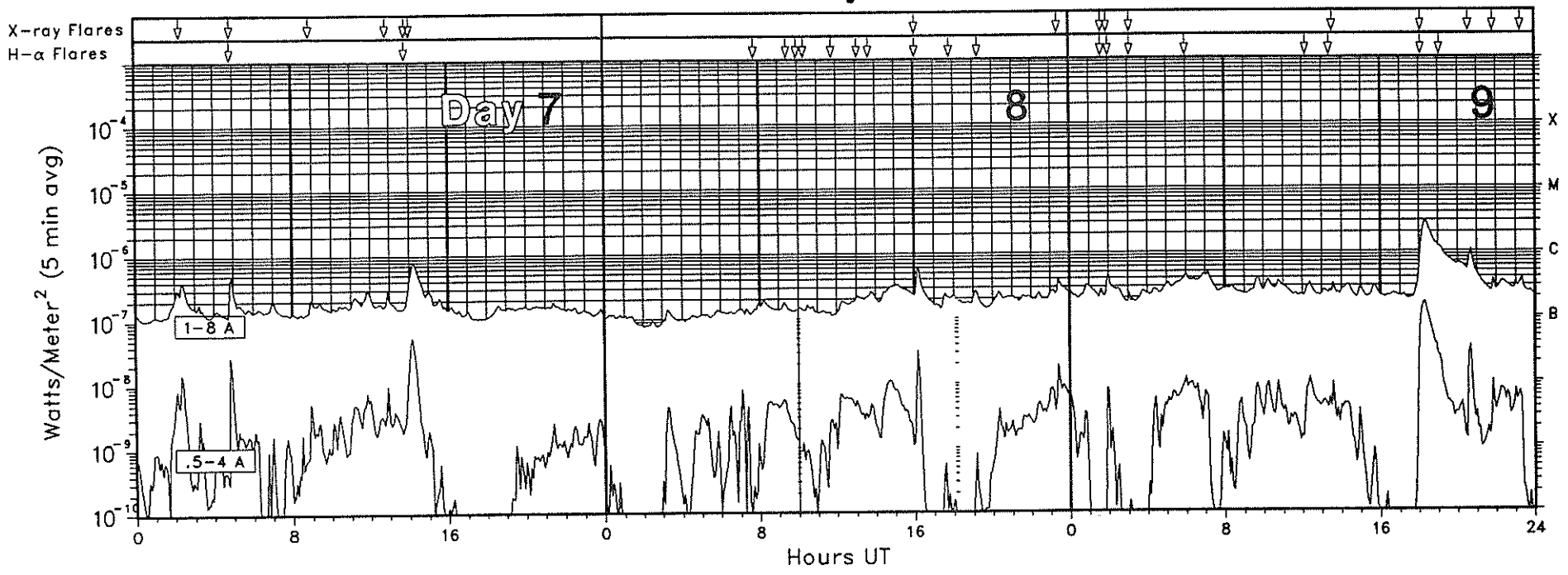
14 Feb 94

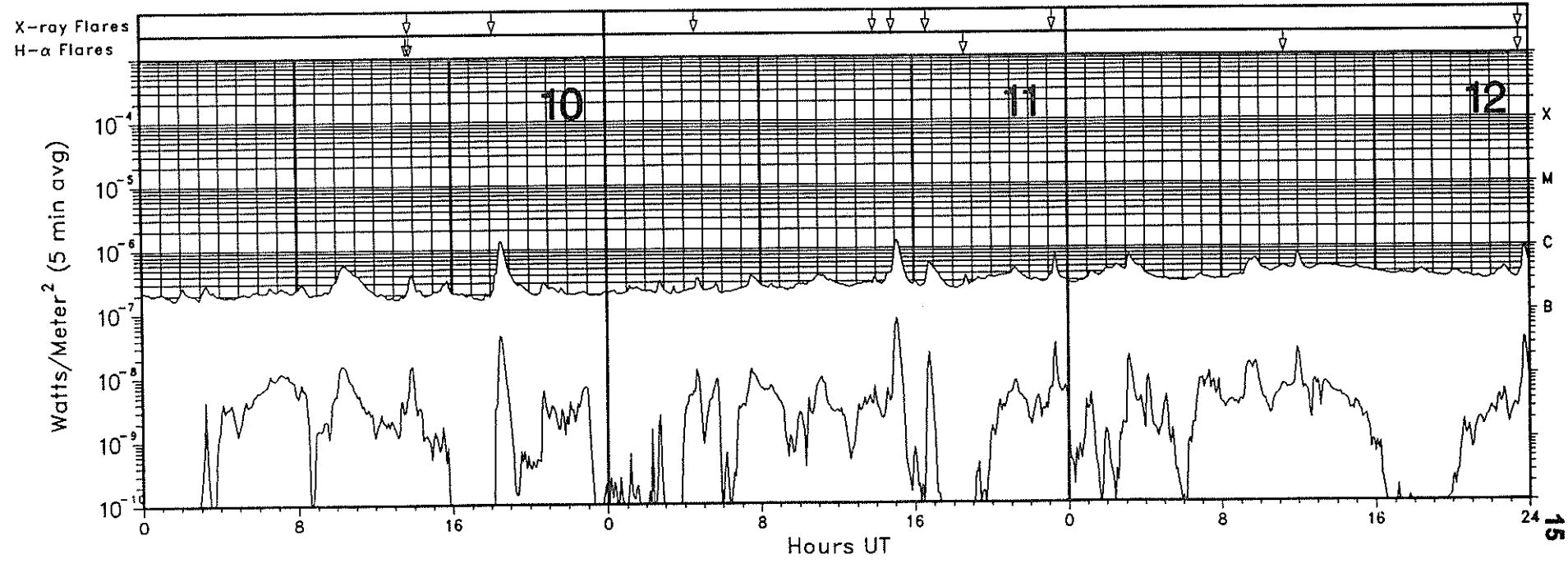




GOES-7 X-RAY DETECTOR

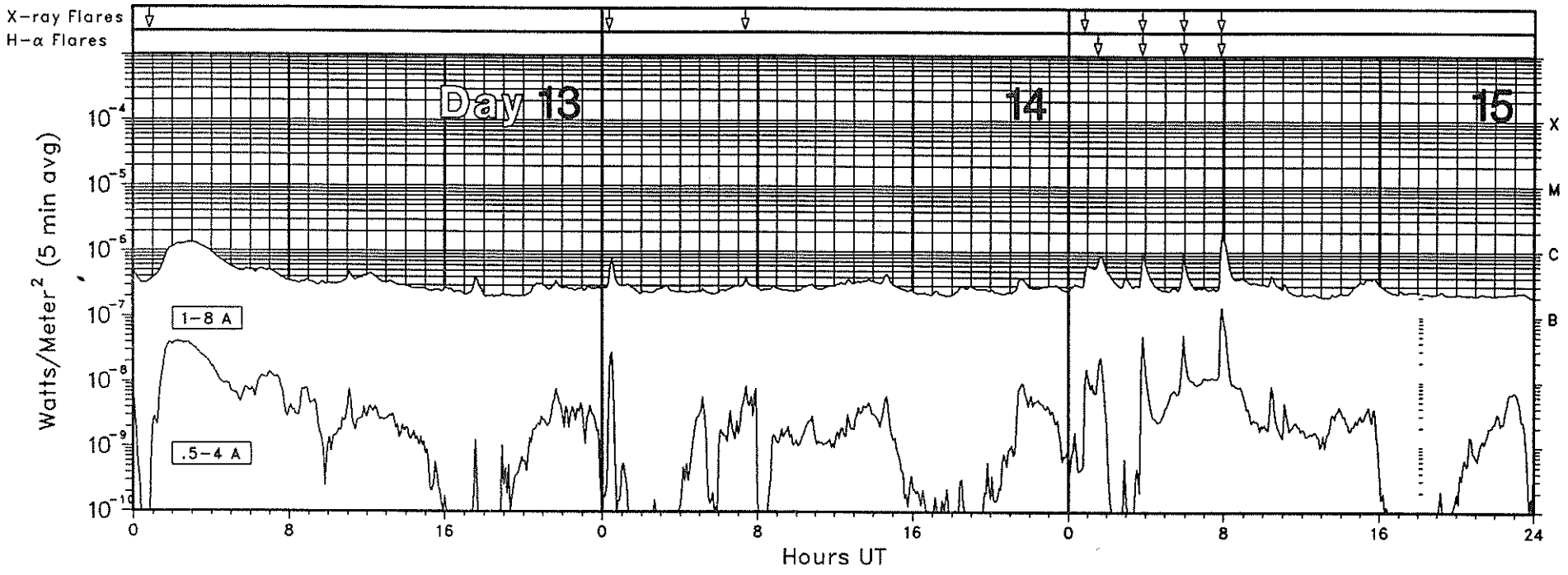
February 1994

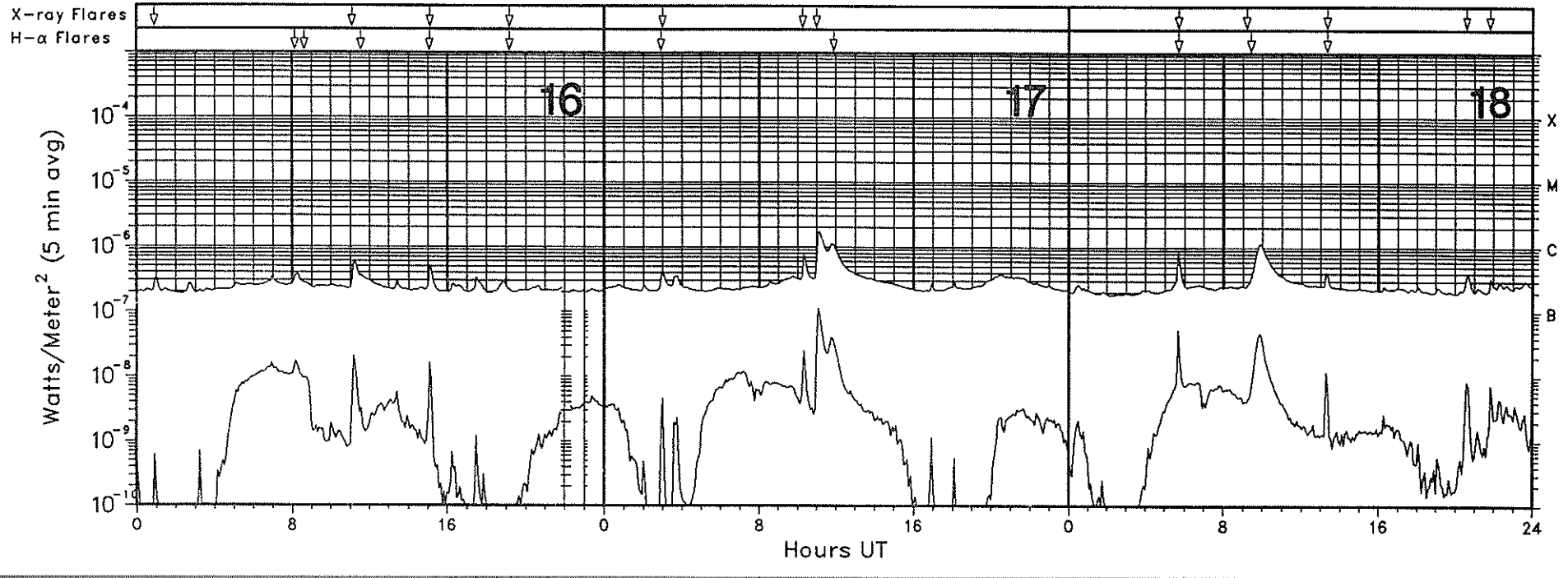




GOES-7 X-RAY DETECTOR

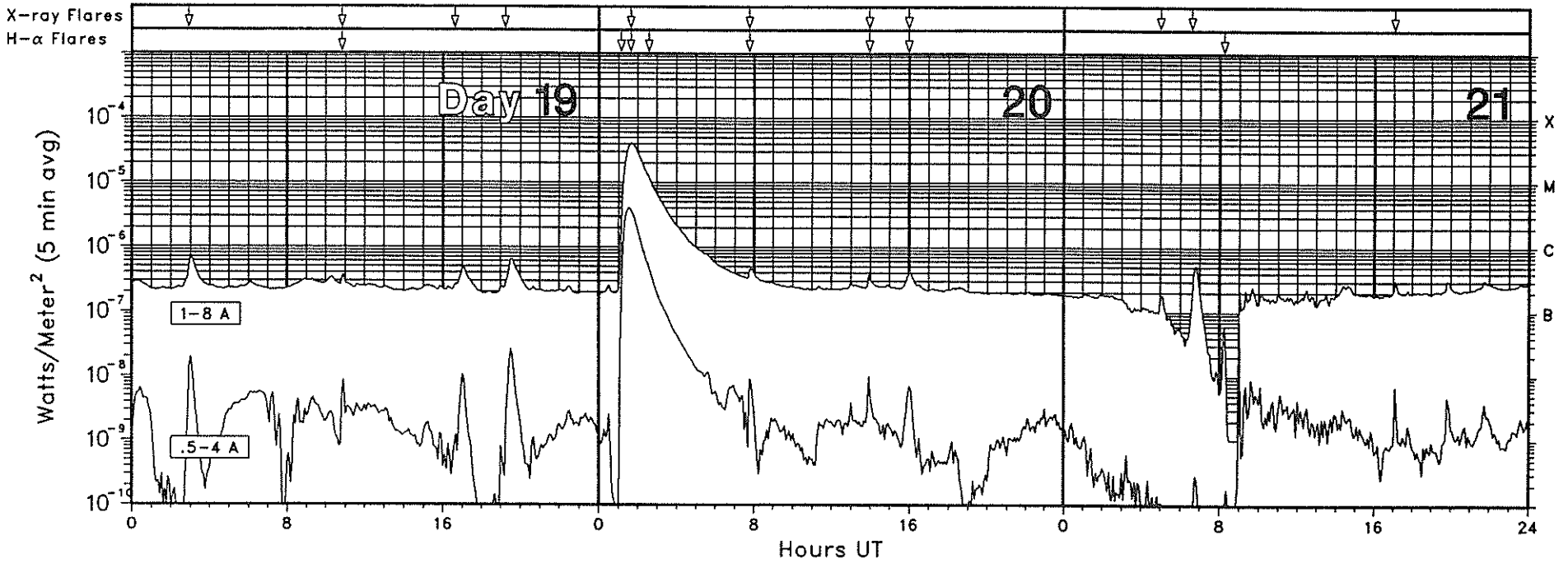
February 1994

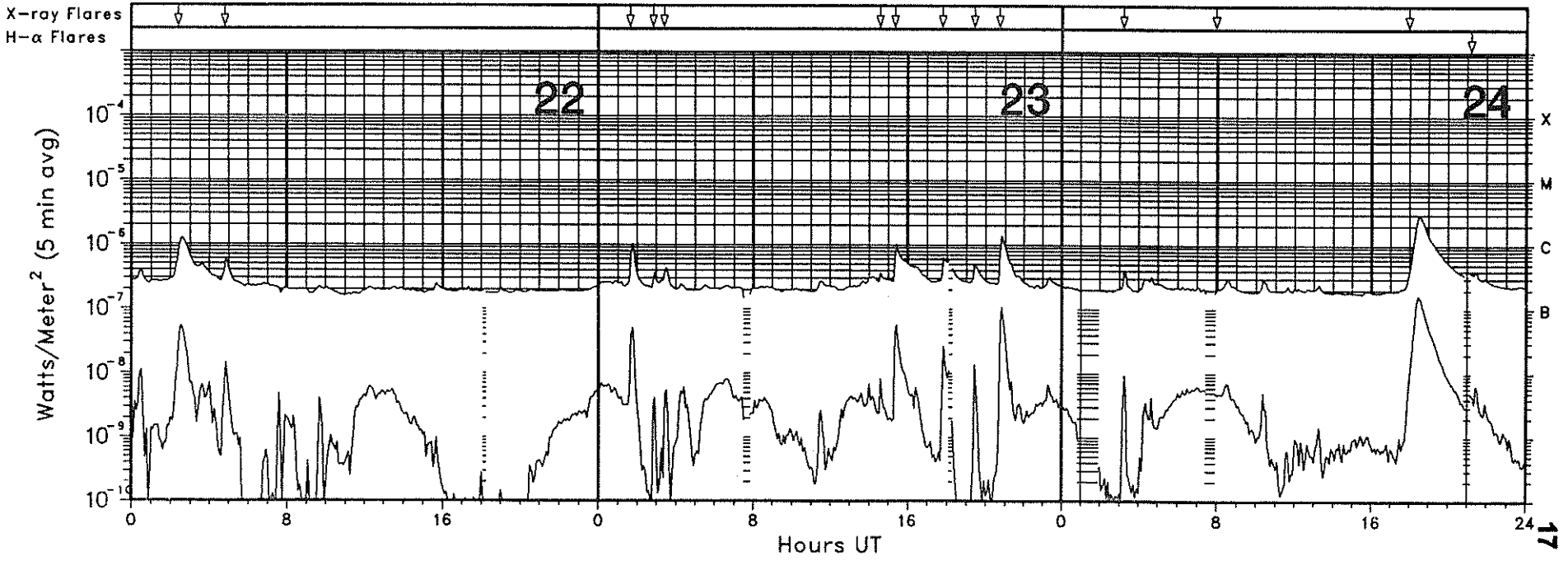




GOES-7 X-RAY DETECTOR

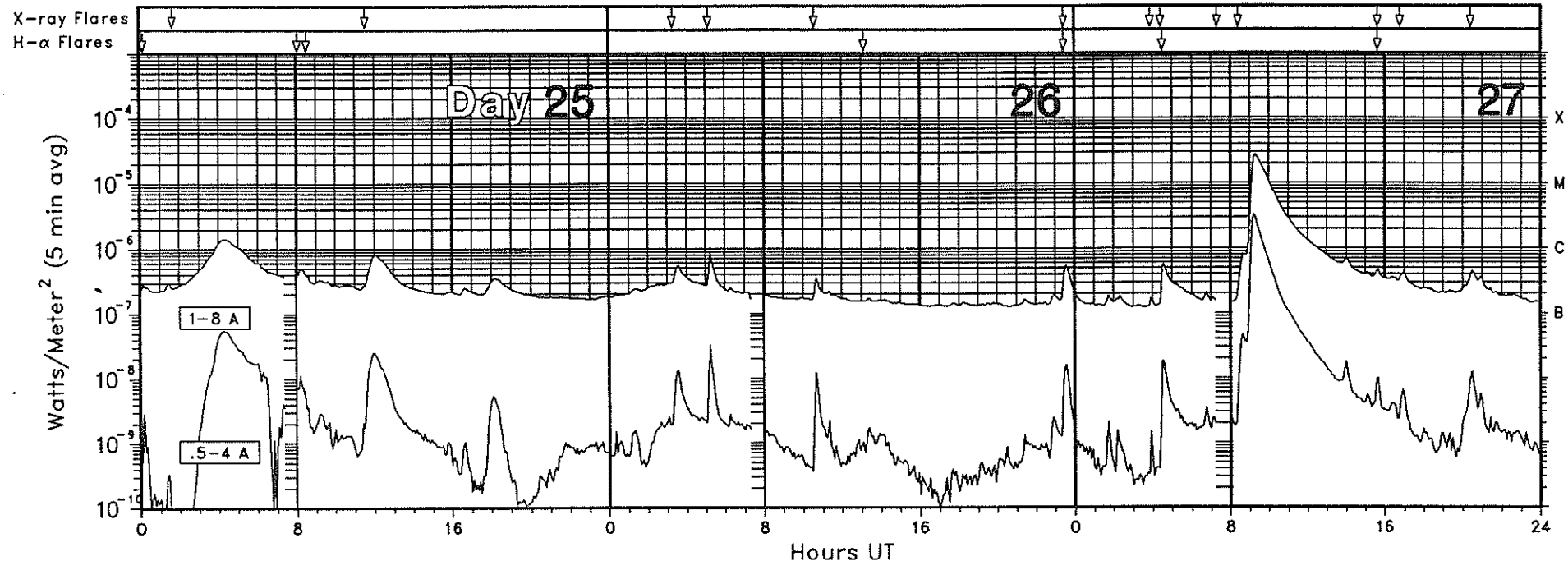
February 1994

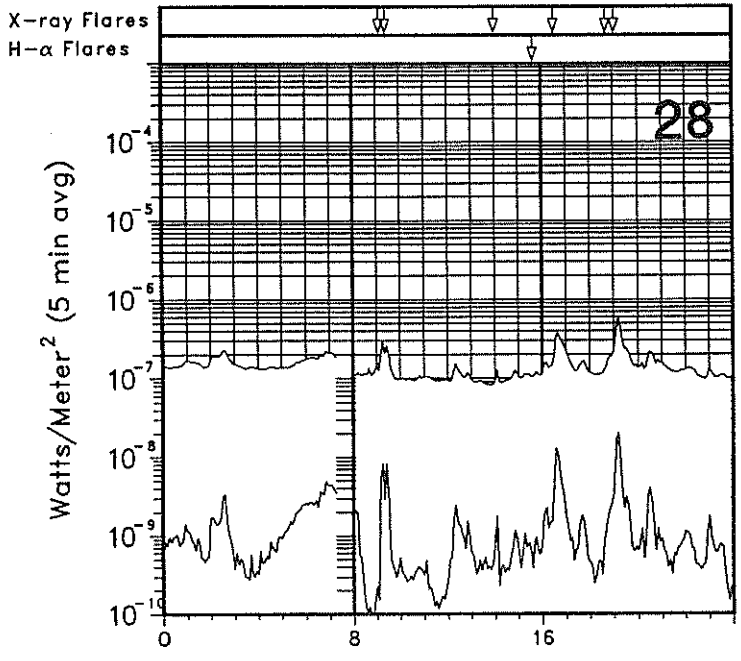




GOES-7 X-RAY DETECTOR

February 1994



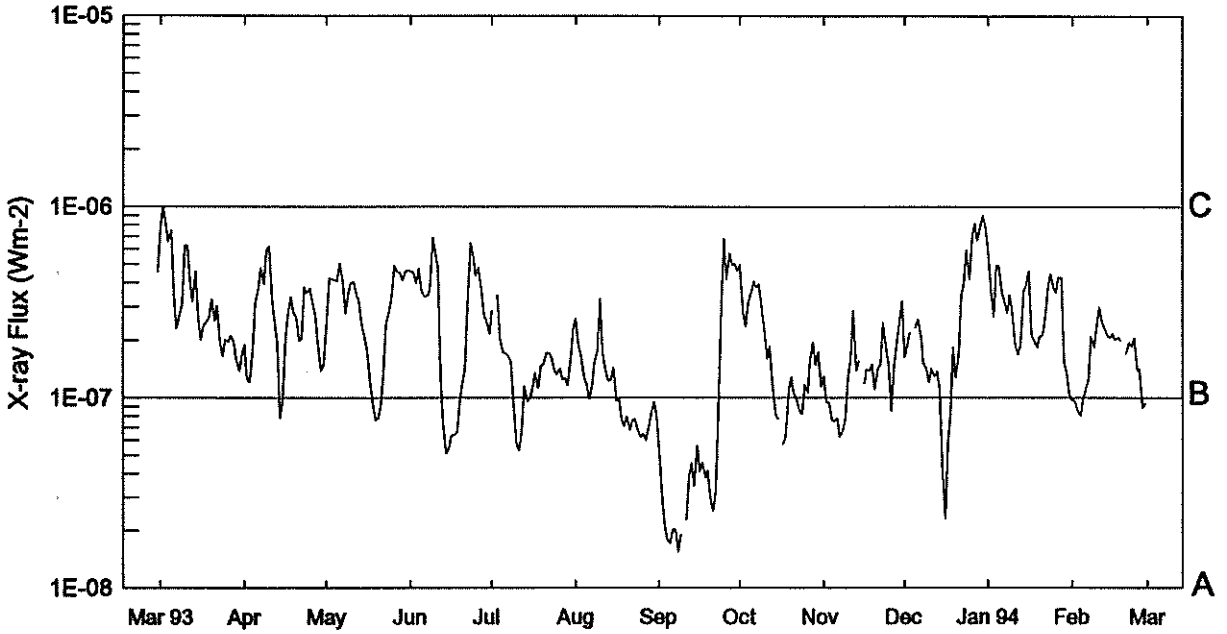


GOES S O L A R X-RAY F L A R E S
Preliminary Listing

February 1994

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region
01	1505	1508	1512				B1.6	
02	1912	1935	2012				B4.0	
03	0159	0200	0210	N18	E62	SF	B3.4	7666
03	0414	0416	0424	N17	E62	SF	C1.5	7666
03	0457	0459	0503	N18	E62	SF	B5.0	7666
03	0609	0614	0622				C1.1	
03	0742	0746	0749				B3.9	
03	1836	1843	1905	N13	W48	SF	C1.1	7663
04	0134	0203	0220				B2.0	
04	0644	0646	0649				B1.9	
04	0732	0732	0737	S18	W48	SF	B4.8	7662
04	1006	1017	1038				B3.8	
04	1752	1758	1808				B1.6	
05	0503	0506	0509				B1.4	
05	0759	0802	0804				B1.6	
05	1931	1935	1937				B1.5	
05	2342	2343	2346				B1.3	
06	0813	0816	0826	S10	W25	SF	B5.0	7664
06	1300	1321	1340	S13	W30	SF	B7.9	7664
06	1650	1654	1659				B1.6	
07	0217	0225	0231				B4.3	
07	0452	0453	0456	S12	W39	SF	B6.4	7664
07	0854	0858	0905				B2.4	
07	1251	1257	1259				B3.9	
07	1350	1359	1439	S12	W42	SF	B8.2	7664
07	1404	1414	1427				B8.6	
08	1603	1628	1633	N08	E54	SF	B7.3	7668
08	2323	2327	2331				B4.7	
09	0137	0144	0215	N09	E50	SF	B3.2	7668
09	0154	0159	0203				B6.5	
09	0307	0307	0309	N09	E49	SF	B2.7	7668
09	1334	1338	1341				B3.8	
09	1806	1806	1844	S12	W71	SF	C3.0	7664
09	2034	2040	2046				C1.1	
09	2149	2152	2156				B4.2	
09	2316	2320	2323				B4.6	
10	1350	1354	1402				B4.6	
10	1813	1834	1848				C1.3	
11	0439	0443	0451				B3.7	
11	1356	1359	1401				B4.5	
11	1455	1508	1519				C1.3	
11	1642	1649	1658				B6.1	
11	2315	2320	2325				B9.2	
12	2329	2333	0003	N07	W03	SF	C1.0	7668
13	0051	0244	0429				C1.3	
14	0023	0032	0038				B7.9	
14	0722	0725	0729				B4.4	
15	0049	0141	0157				B9.0	
15	0348	0350	0358	N12	E49	SF	C1.0	7670
15	0555	0555	0601	N10	E47	SF	C1.1	7670
15	0751	0752	0820	N09	E63	SF	C1.8	7671
16	0054	0059	0104				B3.6	
16	1106	1112	1125				B6.2	
16	1507	1508	1515	N07	E25	SF	B5.6	7670
16	1911	1912	1915	N10	W51	SF		7668
17	0300	0300	0303	N11	E23	SF		7670
17	1016	1023	1029				B8.1	
17	1100	1111	1126				C1.7	
18	0541	0543	0550	N07	E24	SF	C1.1	7671
18	0912	0956	1017				C1.1	
18	1319	1319	1323	N08	E21	SF	B5.6	7671
18	2035	2039	2044				B4.3	
18	2148	2152	2154				B4.2	
19	0254	0302	0312				B7.3	
19	1050	1055	1059				B4.0	
19	1636	1703	1714				B5.1	
19	1913	1933	1949				B6.6	
20	0138	0138	0308	N09	W02	3B	M4.0	7671
20	0745	0748	0800				B5.0	
20	1356	1357	1401	N07	W06	SF	B3.9	7671
20	1558	1600	1608	N12	W26	SF	B4.2	7670
21	0459	0504	0511				B2.5	
21	0635	0651	0658				B5.5	
21	1704	1707	1711				B3.7	
22	0224	0237	0251				C1.2	
22	0448	0453	0459				B5.8	
23	0137	0146	0154				C1.0	
23	0250	0255	0300				B4.0	
23	0324	0332	0337				B4.4	
23	1433	1437	1441				B3.9	
23	1520	1525	1537				C1.1	
23	1746	1753	1811				B7.0	
23	1924	1928	1930				B6.4	
23	2043	2051	2104				C1.4	
24	0311	0315	0323				B4.6	
24	0756	0836	0903				B2.9	
24	1757	1833	1900				C2.9	
25	0140	0424	0526				C1.4	
25	1133	1201	1243				B8.1	
26	0317	0335	0353				B5.5	
26	0510	0515	0523				B9.6	
26	1036	1042	1051				B3.6	
26	2327	2336	0010	S12	W10	SF	B5.5	7675
27	0354	0358	0401				B1.9	
27	0426	0434	0449				B6.1	
27	0719	0724	0729				B2.7	
27	0825	0920	0951				M2.8	
27	1538	1539	1542	S14	E71	SF	B6.1	7680
27	1648	1657	1706				B4.1	
27	2024	2031	2040				B4.5	
28	0909	0917	0922				B3.2	
28	0924	0927	0931				B2.9	
28	1401	1405	1409				B1.4	
28	1632	1640	1654				B3.8	
28	1841	1912	1919				B6.0	
28	1902	1912	1918				B6.0	

Preliminary GOES Satellite Daily X-Ray Background
Mar 93 - Feb 94



Day	Mar 93	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94	Feb
1	B4.5	B1.6	B1.4	B4.6	B2.1	B2.3	A8.0	B4.6	B1.1	B3.2	B7.9	B1.0
2	B7.6	B1.9	B2.2	B4.5	B2.8	B2.5	A5.1	B4.9	B1.3	B1.6	B6.0	A9.7
3	C1.0	B1.2	B4.2	B4.5	---	B1.9	A2.8	B2.8	A9.5	B1.8	B3.6	A9.5
4	B8.2	B1.2	B4.1	B3.9	B3.4	B1.6	A2.1	B2.3	A9.5	B2.2	B2.6	A8.6
5	B6.5	B1.7	B4.1	B4.7	B2.0	B1.2	A1.7	B3.1	A7.5	---	B4.9	A8.0
6	B7.4	B3.2	B4.0	B3.6	B1.7	B1.1	A1.7	B3.4	A7.5	B2.3	B4.8	A9.6
7	B3.5	B3.6	B5.0	B3.4	B1.7	A9.8	A2.0	B4.0	A7.8	B2.5	B3.7	B1.1
8	B2.3	B4.7	B4.0	B3.4	B1.6	B1.1	A2.0	B3.7	A6.2	B2.1	B3.1	B1.2
9	B2.6	B3.9	B2.7	B3.5	B1.5	B1.5	A1.5	B3.9	A6.6	B1.5	B2.7	B2.0
10	B3.0	B5.8	B3.4	B6.8	A8.5	B1.7	A1.9	B2.8	A7.7	B1.4	B3.4	B1.8
11	B6.2	B6.1	B4.0	B5.9	A5.7	B3.3	---	B2.2	B1.2	B1.2	B2.7	B2.3
12	B6.2	B3.2	B4.0	B4.7	A5.3	B1.7	A2.2	B1.6	B1.5	B1.4	B1.8	B2.9
13	B4.0	B2.7	B3.4	B1.3	A6.6	B1.3	A3.8	B1.8	B2.8	B1.2	B1.6	B2.5
14	B3.2	B1.9	B3.2	A7.2	B1.1	B1.2	A4.5	B1.2	B1.3	B1.3	B1.9	B2.3
15	B4.6	A7.8	B2.4	A5.1	A9.5	B1.2	A3.4	A8.2	B1.5	B1.1	B3.6	B2.1
16	B2.6	A9.5	B2.1	A5.4	A9.9	B1.4	A5.6	A7.7	---	A4.5	B3.8	B2.0
17	B2.0	B2.0	B1.7	A6.3	B1.1	A9.6	A4.1	---	B1.1	A2.3	B4.6	B2.1
18	B2.3	B2.8	B1.2	A6.3	B1.3	A9.9	A4.5	A5.7	B1.4	A5.7	B2.1	B2.0
19	B2.5	B3.3	A9.5	A6.5	B1.1	A7.6	A3.8	A6.2	B1.3	A8.2	B2.0	B2.0
20	B2.6	B2.8	A7.6	A9.5	B1.4	A7.1	A4.1	B1.0	B1.5	B1.8	B1.8	B1.9
21	B3.2	B2.6	A7.7	B1.2	B1.5	A7.9	A2.9	B1.2	B1.1	B1.2	B2.1	---
22	B2.5	B1.9	A9.0	B1.4	B1.7	A6.7	A2.5	B1.0	B1.4	B1.6	B2.1	B1.7
23	B3.0	B2.0	B1.3	B3.0	B1.7	A7.5	A3.2	A9.9	B1.4	B3.4	B2.5	B1.9
24	B1.9	B3.7	B2.4	B6.4	B1.6	A7.7	B1.0	A8.5	B2.4	B3.9	B3.8	B1.8
25	B1.6	B3.5	B2.8	B5.5	B1.4	A6.8	B3.0	A8.2	B1.9	B5.9	B4.4	B2.0
26	B2.0	B3.7	B3.3	B4.3	B1.3	A6.2	B6.8	B1.1	B1.4	B4.1	B3.8	B1.3
27	B1.9	B3.1	B4.9	B4.7	B1.4	A6.4	B4.2	B1.0	A8.5	B6.9	B3.5	B1.4
28	B2.1	B2.7	B4.6	B3.6	B1.2	A6.0	B5.7	B1.5	B1.4	B8.1	B4.2	A8.8
29	B1.9	B1.9	B4.4	B2.7	B1.2	A7.1	B4.9	B1.9	B1.8	B6.6	B4.2	
30	B1.6	B1.3	B4.1	B2.5	B1.1	A8.1	B5.0	B1.4	B2.3	B7.8	B1.5	
31	B1.3		B4.5		B1.6	A9.4		B1.7		B8.9	B1.3	

NOTE: Background levels below B1.0 are unreliable.

MASS EJECTIONS FROM THE SUN--PROXY DATA*

February 1994

Site	Mo Day	Observed UT Start	Max	End	Location RA°	R/Ro	Freq or Wavelength	Kind of Event
PALE	Feb 20	0108.0		0116.0			Meter	II 1000km/s
LEAR	Feb 20	0108.0		0117.0			Meter	II 1400km/s
PALE	Feb 20	0116.0		0415.0			Meter	IV
LEAR	Feb 20	0116.0		0554.0			Meter	IV

QUALIFIERS ON START, MAX AND END TIMES
- E = event began before the tabulated time
- U = uncertain time

TYPE OF EVENT
- A = eruptive active region prominence
- CB = coronal cloud bubble
- D = coronal depletions
- E = coronal enhancement
- EL = coronal expanding loop
- II = Type II radio burst
- IVm = moving Type IV radio burst
- Q = eruptive quiescent prominence
- R = coronal ray or streamer
- S = flare-surge if there is a known flare association
- SP = flare-spray if there is a known flare association
- ** = movement may be caused by ionospheric refraction

REPORTING STATIONS
- IZMI = Izmiran
- KHAR = Kharkov
- LEAR = Learmonth
- ONDR = Ondrejov
- POTS = Potsdam
- SGMR = Sagamore Hill
- SVTO = San Vito
- WROC = Wroclaw

*Please be advised that this list is made up of proxy data--not actual measurements of coronal mass ejections (CMEs). The list was requested by the IAU Commission 10 in 1979. See page 46 in the July 1987 supplement to Solar-Geophysical Data for more information.

ACTIVE PROMINENCES AND FILAMENTS

FEBRUARY 1994

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
01	DSF	0018U	2245U	S40	E08	02	1.7	2	15	0	0	E	LEAR		
01	ADF	0255E	0700D	S26	W48	01	28.5	1	20	5	7	E	LEAR	7659	
01	BSL	1010	1015	N77	W90	01	24.2	1-				C	CATA		
01	DSF	1025U	0846U	S13	W22	01	30.9	1				C	CATA		
01	DSF	1025U	0846U	S13	W29	01	30.3	1				C	CATA		
01	DSF	1025U	0846U	S20	W02	02	1.3	1				C	CATA		
01	BSL	1110	1115	N84	E90	02	9.9	1-				C	CATA		
01	AFS	1137E	2012D	S15	W76	01	26.8		03	9	9	E	RAMY	7659	
01	DSD	1140E	2012D	N08	W60	01	28.1		03	9	9	E	RAMY	7661	
01	AFS	1258E	2207	N02	E46	02	5.0		01	9	9	E	RAMY	7665	
01	AFS	1258E	2207	N03	E43	02	4.7		01	9	9	E	RAMY	7665	
01	DSD	1300E	2207	N03	E45	02	4.9		01	9	9	E	RAMY	7665	
01	DSD	1350E	1528D	N02	E44	02	4.9		01	5	6	E	SVTO	7665	
01	AFS	1350E	1528D	N04	E44	02	4.9		03	8	8	E	SVTO	7665	
01	SSB	1549		188	W18	02	8.4			0	0	E	HOLL		
01	AFS	1632E	2207	S17	W14	01	31.6		02	9	9	E	RAMY	7662	
01	DSD	1632E	2207	S18	W16	01	31.5		01	9	9	E	RAMY	7662	
01	ADF	1634E	2207	S09	W48	01	29.2	1	04	9	9	E	RAMY	7660	
01	DSD	1637E	2207	S07	E30	02	3.9		01	9	9	E	RAMY	7664	
01	DSD	1639E	2207	S13	E36	02	4.4		01	8	7	E	RAMY		
01	DSD	1832E	1853D	N12	W18	01	31.4		02	9	9	E	HOLL	7663	
01	DSD	1907E	2207	N11	W20	01	31.3		02	9	9	E	RAMY	7663	
02	ADF	0040E	0950D	N12	W26	01	31.1	1	17	8	8	E	LEAR		
02	AFS	0420E	0846D	S17	W18	01	31.8		05	8	9	E	LEAR	7662	
02	AFS	0729E	1537	S18	W22	01	31.6		02	9	9	E	SVTO	7662	
02	AFS	0931E	1537	N11	W26	01	31.4		01	9	9	E	SVTO	7663	
02	AFS	0936E	1537	N03	E34	02	4.9		02	9	9	E	SVTO	7665	
02	BSL	0948	0958D	N65	E90	02	10.5	1-				C	CATA		
02	AFS	1143E	2016	N11	W28	01	31.4		01	9	9	E	RAMY	7663	
02	AFS	1218E	2016	S14	W27	01	31.5		02	8	7	E	RAMY	7662	
02	AFS	1227E	2016	N02	E34	02	5.0		01	8	9	E	RAMY	7665	
02	DSF	1240U	0825U	S06	W35	01	31.0	1				C	CATA		
02	DSF	1240U	0825U	S36	W05	02	2.1	1				C	CATA		
02	AFS	1359E	2016	N17	E72	02	8.0		02	9	9	E	RAMY		
02	ADF	1359E	2016	N28	W15	02	1.4	1	20	9	9	E	RAMY		
02	ADF	1411E	2016	S10	W61	01	29.1	1	03	9	9	E	RAMY	7660	
02	AFS	1453E	1856	N12	W31	01	31.3		01	9	8	E	HOLL	7663	
02	AFS	1507E	1856	N15	E72	02	8.1		01	9	9	E	HOLL		
02	SSB	1604		188	W31	02	9.6			0	0	E	RAMY		176 W20
02	DSD	1615E	2016	S13	W29	01	31.5		02	9	9	E	RAMY	7662	
02	DSD	1619E	2016	N14	W28	01	31.6		02	9	9	E	RAMY	7663	
02	DSD	1623E	2016	S07	E18	02	4.0		01	9	9	E	RAMY	7664	
02	DSD	1623E	2016	S10	E16	02	3.9		01	9	9	E	RAMY	7664	
02	DSD	1625E	2016	N04	E29	02	4.8		02	9	9	E	RAMY	7665	
02	SSB	1810		187	W32	02	9.6			0	0	E	HOLL		
02	BSD	1833E	1848D	N16	E72	02	8.2		01	7	7	E	HOLL		
02	AFS	2330E	0903D	N18	E65	02	7.9		02	9	9	E	LEAR	7666	
03	DSD	0731E	1555	N10	W40	01	31.3		01	9	9	E	SVTO	7663	
03	DSD	0738E	1150D	S13	W39	01	31.4		01	9	9	E	SVTO	7662	
03	DSD	0744E	1555	N17	E60	02	7.9		02	9	9	E	SVTO	7666	
03	AFS	0801E	1453D	N17	E61	02	8.0		02	9	9	E	SVTO	7666	
03	BSL	1056E	1100D	N46	W90	01	27.0	1-				C	CATA		
03	DSD	1153E	1555	S14	W40	01	31.5		02	9	9	E	SVTO	7662	
03	AFS	1159E	2146	S13	W40	01	31.5		02	9	9	E	RAMY	7662	
03	DSD	1200E	2146	S15	W37	01	31.7		01	9	9	E	RAMY	7662	
03	ADF	1202E	2146	S10	W72	01	29.2	1	04	9	9	E	RAMY	7660	
03	AFS	1203E	2146	N11	W42	01	31.3		03	9	9	E	RAMY	7663	
03	DSD	1204E	2146	N12	W45	01	31.1		02	9	9	E	RAMY	7663	
03	AFS	1206E	2146	N01	E20	02	5.0		02	9	9	E	RAMY	7665	
03	DSD	1206E	2146	N03	E17	02	4.8		02	9	9	E	RAMY	7665	
03	AFS	1208E	2146	N17	E58	02	7.9		02	9	9	E	RAMY	7666	
03	DSD	1209E	2146	N15	E57	02	7.8		01	9	9	E	RAMY	7666	
03	DSD	1209E	2146	N17	E54	02	7.6		02	9	9	E	RAMY	7666	
03	AFS	1212E	1555	N02	E21	02	5.1		01	9	9	E	SVTO	7665	
03	ASR	1427E	1624D	N89	W10	02	2.7			9	9	E	RAMY	7661	
03	ADF	1436E	1555	N26	W33	02	1.0	1	19	3	4	E	SVTO		
03	SSB	1501		189	W45	02	11.0			0	0	E	RAMY		204 W63
03	DSD	1547E	2121	N15	E54	02	7.7		02	9	9	E	HOLL	7666	

ACTIVE PROMINENCES AND FILAMENTS

FEBRUARY 1994

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
03	AFS	1630E	2121	N12	W45	01	31.3		02	9	9	E	HOLL	7663	
03	DSD	1631E	2121	N14	W44	01	31.4		03	8	9	E	HOLL	7663	
03	DSD	1646E	2121	S09	W74	01	29.2		02	9	9	E	HOLL	7660	
03	DSD	2021E	2121	S17	W43	01	31.6		05	9	9	E	HOLL	7662	
04	DSD	0400E	0502D	S15	W51	01	31.3		03	8	8	E	LEAR	7662	
04	AFS	0449E	1044	N18	E49	02	7.9		02	9	9	E	LEAR	7666	
04	AFS	0525E	1044	S13	E01	02	4.3		02	9	9	E	LEAR		
04	DSD	0537E	0628D	S11	E02	02	4.4		02	9	9	E	LEAR		
04	AFS	0651E	1540	N10	W57	01	31.0		02	9	9	E	SVTO	7663	
04	AFS	0728E	1044	N11	W55	01	31.2		01	9	9	E	LEAR	7663	
04	AFS	0857E	1540	N17	E46	02	7.9		02	9	9	E	SVTO	7666	
04	AFS	0857E	1540	S13	E00	02	4.4		02	9	9	E	SVTO		
04	AFS	0857E	1540	S18	W48	01	31.7		01	9	9	E	SVTO	7662	
04	APR	0915	1000	S22	W90	01	28.6						ATHN		
04	DSD	1212	1540	N04	E07	02	5.0		02	9	9	E	SVTO	7665	
04	ADF	1240E	1540	N13	W57	01	31.2	2	05	9	9	E	SVTO	7663	
04	DSD	1329E	2109	N14	W59	01	31.1		03	9	9	E	RAMY	7663	
04	AFS	1330E	2109	N11	W58	01	31.2		02	9	9	E	RAMY	7663	
04	AFS	1330E	2109	N16	E46	02	8.0		03	9	9	E	RAMY	7666	
04	DSD	1331E	1608D	N16	E48	02	8.2		03	9	9	E	RAMY	7666	
04	DSD	1514E	1540	N02	E06	02	5.1		01	9	9	E	SVTO	7665	
04	AFS	1516E	2109	S14	W52	01	31.7		02	9	9	E	RAMY	7662	
04	AFS	1610E	2109	S12	W04	02	4.4		02	9	9	E	RAMY	7664	
04	DSD	1610E	2109	S12	W05	02	4.3		03	9	9	E	RAMY	7664	
04	DSD	1611E	2109	N09	E11	02	5.5		02	9	9	E	RAMY		
04	DSD	1616E	2109	N01	E04	02	5.0		02	9	9	E	RAMY	7665	
04	AFS	1616E	2109	N05	E03	02	4.9		02	9	9	E	RAMY	7665	
04	AFS	1636E	0025	S12	W06	02	4.2		03	0	0	E	HOLL	7664	
04	AFS	1814E	0025	N16	E43	02	8.0		02	6	4	E	HOLL	7666	
04	ADF	1814E	0025	N16	W63	01	31.0	1	03	9	4	E	HOLL	7663	
05	DSF	0013U	0923U	S10	E11	02	5.8	2	08	0	0	E	LEAR		
05	ADF	0035E	0915D	N17	E38	02	7.9	1	04	9	9	E	LEAR	7666	
05	AFS	0540E	1045	S12	W11	02	4.4		02	8	8	E	LEAR	7665	
05	AFS	0724E	1219	S14	W27	02	3.3		02	9	9	E	SVTO	7664	
05	AFS	0733E	1219	N17	E22	02	7.0		02	9	9	E	SVTO	7666	
05	DSF	0910U	0902U	S07	E19	02	6.8	1				C	CATA		
05	APR	1000E	1045	S13	W90	01	29.7	1		7	7	E	LEAR		
05	AFS	1117E	1400	N10	W69	01	31.3		02	9	9	E	SVTO	7663	
05	AFS	1118E	1400	N16	E35	02	8.1		02	9	9	E	SVTO	7666	
05	DSD	1148E	2040	N13	E27	02	7.5		02	9	9	E	RAMY	7666	
05	AFS	1148E	2040	N17	E32	02	7.9		02	9	9	E	RAMY	7666	
05	AFS	1200E	2040	S13	W16	02	4.3		02	9	9	E	RAMY	7664	
05	DSD	1200E	1400	N01	W08	02	4.9		02	9	9	E	SVTO	7665	
05	APR	1202E	1940D	S13	W90	01	29.8	1		9	9	E	RAMY		
05	ADF	1205E	1608D	N10	W70	01	31.2	1	04	9	9	E	RAMY	7663	
05	AFS	1205E	2040	N10	W71	01	31.2		02	9	9	E	RAMY	7663	
05	ASR	1410E	1512D	N12	W90	01	29.9			9	9	E	RAMY		
05	SSB	1417		121	W03	02	7.2			0	0	E	RAMY		191 W73
05	DSD	1601E	2040	S10	W14	02	4.6		04	9	9	E	RAMY	7664	
05	ADF	1616E	2040	N27	W56	02	1.3	1	06	9	9	E	RAMY		
05	ADF	1616E	2040	N27	W64	01	31.7	1	06	9	9	E	RAMY		
05	DSD	1617E	2218D	S10	W15	02	4.5		02	9	9	E	HOLL	7664	
05	DSD	1630E	2232D	N13	W72	01	31.2		01	9	9	E	HOLL	7663	
05	AFS	1634E	2307	S10	W18	02	4.3		02	9	9	E	HOLL	7664	
05	AFS	1637E	2040	N01	W10	02	4.9		02	9	9	E	RAMY	7665	
05	ADF	1638E	2040	N03	W14	02	4.6	1	03	9	9	E	RAMY	7665	
05	AFS	1808E	2040	S07	E44	02	9.0		01	9	9	E	RAMY	7667	
05	AFS	1905E	2040	S13	E61	02	10.4		01	9	9	E	RAMY		
06	ASR	0540E	0800D	N13	W90	01	30.5			9	9	E	LEAR	7663	
06	AFS	0724E	1219	S14	W27	02	4.3		02	9	9	E	SVTO	7664	
06	AFS	0733E	1219	N17	E22	02	8.0		02	9	9	E	SVTO	7666	
06	AFS	0803E	1047	S13	W28	02	4.2		02	9	9	E	LEAR	7664	
06	AFS	1134E	2124	S14	W29	02	4.3		02	9	9	E	RAMY	7664	
06	DSD	1144E	1646D	S13	E53	02	10.5		02	9	9	E	RAMY		
06	AFS	1208E	2124	S09	E37	02	9.3		01	9	9	E	RAMY	7667	
06	AFS	1212E	2124	N00	W19	02	5.1		02	9	9	E	RAMY	7665	
06	SSB	1214		122	W18	02	8.2			0	0	E	RAMY		139 W35 191 W87

ACTIVE PROMINENCES AND FILAMENTS

FEBRUARY 1994

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
06	ADF	1450E	2124	N03	W25	02	4.8	1	07	9	9	E	RAMY	7665	
06	AFS	1502E	0031	S12	W33	02	4.1		02	9	9	E	HOLL	7664	
06	DSD	1513E	2021D	S09	E31	02	9.0		02	9	9	E	HOLL	7667	
06	ASR	1629E	2024D	N10	W90	01	31.0			9	9	E	RAMY	7663	
06	APR	1629E	2124	N24	W90	01	30.8	1		9	9	E	RAMY		
06	DSD	1646E	2021D	S08	E30	02	8.9		04	9	9	E	RAMY	7667	
06	APR	1722E	1908D	S11	W90	01	31.0	1		9	9	E	RAMY	7662	
06	DSD	2055E	2124	S08	E28	02	9.0		01	9	9	E	RAMY	7667	
06	DSF	2135U	2205U	N05	W32	02	4.5	2	06	0	0	E	HOLL		
06	AFS	2214E	0031	S10	E31	02	9.2		02	9	9	E	HOLL	7667	
07	DSD	0140E	1045	S13	W38	02	4.2		03	9	9	E	LEAR	7664	
07	APR	0150E	1010D	N27	W90	01	31.1	1		8	8	E	LEAR		
07	AFS	0627E	1045	S13	W40	02	4.2		02	9	9	E	LEAR	7664	
07	AFS	0857E	1408	S12	W40	02	4.3		04	9	9	E	SVTO	7664	
07	DSD	1126E	1625D	S15	W39	02	4.5		02	9	9	E	RAMY	7664	
07	AFS	1126E	2122	S14	W41	02	4.4		02	9	9	E	RAMY	7664	
07	SSB	1214		118	W25	02	8.9			0	0	E	RAMY		123 W30
07	ASR	1412E	1540D	S17	W90	01	31.7			9	9	E	RAMY	7662	
07	APR	1414E	2122	N25	W90	01	31.6			9	9	E	RAMY		
07	DSD	1539E	1633D	N08	E67	02	12.7		03	9	9	E	RAMY		
07	AFS	1541E	2122	N09	E67	02	12.7		02	8	8	E	RAMY		
07	AFS	1945E	2355	S12	W47	02	4.3		02	8	8	E	HOLL	7664	
07	DSD	2031E	2122	N09	E65	02	12.7		02	9	9	E	RAMY		
08	DSD	0120E	0430D	S09	W45	02	4.7		04	9	9	E	LEAR	7664	
08	AFS	0650E	1436	N06	E60	02	12.8		02	9	9	E	SVTO		
08	BSL	0732E	0732D	S75	W90	01	31.0	1-				C	CATA		
08	ADF	0850E	1436	S08	W51	02	4.5	1	05	9	9	E	SVTO	7664	
08	AFS	0850E	1436	S12	W57	02	4.1		02	9	9	E	SVTO	7664	
08	AFS	0926E	1436	N18	W03	02	8.2		02	9	9	E	SVTO	7666	
08	SSB	0944		118	W37	02	9.8			0	0	E	SVTO		
08	DSD	0953E	1436	N18	W08	02	7.8		03	9	9	E	SVTO	7666	
08	ADF	1038E	1210D	N09	E60	02	12.9	1					KHAR		B
08	DSD	1145E	1436	N07	E59	02	12.9		02	9	9	E	SVTO		
08	DSD	1219E	2210	S12	W57	02	4.2		03	9	9	E	RAMY	7664	
08	DSD	1219E	2210	S13	W57	02	4.2		03	9	9	E	RAMY	7664	
08	AFS	1225E	2210	N08	E56	02	12.7		02	9	9	E	RAMY		
08	DSD	1225E	2210	N08	E57	02	12.8		03	9	9	E	RAMY		
08	DSD	1247E	2210	N08	E54	02	12.6		03	9	9	E	RAMY		
08	AFS	1250E	2210	S14	W57	02	4.2		02	9	9	E	RAMY	7664	
08	SSB	1251		121	W43	02	10.3			0	0	E	RAMY		
08	AFS	1615E	2210	N18	W08	02	8.1		02	9	9	E	RAMY	7666	
08	DSD	1616E	2210	N18	W12	02	7.8		03	9	9	E	RAMY	7666	
08	DSD	1618E	2210	N02	W50	02	4.9		01	9	9	E	RAMY	7665	
08	DSD	1919E	2210	N14	W09	02	8.1		03	9	9	E	RAMY	7666	
08	DSD	1921E	2210	S08	E02	02	8.9		02	9	9	E	RAMY	7667	
08	APR	1939E	2210	N35	W89	02	1.7	1		9	9	E	RAMY		
08	DSD	1946E	2210	S12	E22	02	10.5		02	9	9	E	RAMY		
08	AFS	2310E	1035	N08	E51	02	12.8		02	9	9	E	LEAR	7668	
09	ADF	0230E	0825D	S14	W66	02	4.1	1	05	9	9	E	LEAR	7664	
09	DSD	0305E	0319D	N09	E52	02	13.0		05	9	9	E	LEAR	7668	
09	ADF	0408E	1035	N09	E50	02	12.9	1	05	9	9	E	LEAR	7668	
09	DSD	0800E	1410	N00	E47	02	12.8		05	9	9	E	SVTO	7668	
09	AFS	0800E	1410	N07	E47	02	12.8		03	9	9	E	SVTO	7668	
09	AFS	0815E	1410	S07	W80	02	3.3		02	9	9	E	SVTO	7664	
09	BSD	0936	0955	N10	E44	02	12.7	1					KHAR		A
09	DSD	0948	1003	N09	E40	02	12.4	1					KHAR		A
09	DSD	1029	1040	N11	E51	02	13.3	1					KHAR		A
09	DSD	1258E	2134	S12	W67	02	4.5		02	9	9	E	RAMY	7664	
09	AFS	1258E	2134	S12	W69	02	4.3		02	9	9	E	RAMY	7664	
09	AFS	1300E	2134	N08	E42	02	12.7		04	9	9	E	RAMY	7668	
09	DSD	1301E	2134	N08	E48	02	13.1		02	8	9	E	RAMY	7668	
09	DSD	1301E	2134	N09	E39	02	12.5		02	9	9	E	RAMY	7668	
09	APR	1303E	1520D	N24	W89	02	2.7	1		9	9	E	RAMY		
09	DSD	1304E	1559D	N16	W17	02	8.2		01	9	9	E	RAMY	7666	
09	AFS	1304E	2134	N18	W19	02	8.1		02	9	9	E	RAMY	7666	
09	APR	1306E	1455D	S20	E90	02	16.4	1		9	9	E	RAMY		
09	SSB	1409		124	W59	02	11.7			0	0	E	RAMY		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
09	DSD	1417E	1603D	S07	W03	02	9.4		01	9	9	E	RAMY	7667	
09	DSD	1452E	2134	N10	E38	02	12.5		03	9	9	E	RAMY	7668	
09	AFS	1505E	0033	S11	W73	02	4.1		02	9	9	E	HOLL	7664	
09	AFS	1507E	2010D	S06	W02	02	9.5		01	7	6	E	HOLL	7667	
09	AFS	1508E	0033	N07	E42	02	12.8		02	9	9	E	HOLL	7668	
09	AFS	1517E	1749D	N19	W20	02	8.1		02	6	6	E	HOLL	7666	
09	DSD	1517E	2134	N10	E45	02	13.0		03	9	9	E	RAMY	7668	
09	SSB	1523		125	W60	02	11.8			0	0	E	HOLL		
09	ADF	1703E	2010D	S11	W10	02	8.9	1	06	8	9	E	HOLL	7667	
10	AFS	0026E	1031	N09	E37	02	12.8		04	9	8	E	LEAR	7668	
10	ADF	0230E	1031	S07	W12	02	9.2	1	04	9	9	E	LEAR	7667	
10	ADF	0405E	0945D	N14	W28	02	8.0	1	03	9	8	E	LEAR	7666	
10	AFS	1133E	2203	N08	E31	02	12.8		02	9	9	E	RAMY	7668	
10	DSD	1135E	1350D	N11	E34	02	13.0		02	9	9	E	RAMY	7668	
10	DSD	1137E	1350D	N10	E31	02	12.8		04	9	9	E	RAMY	7668	
10	AFS	1206E	2203	N17	W31	02	8.1		01	6	9	E	RAMY	7666	
10	ADF	1209E	2203	N17	W31	02	8.1	1	03	9	9	E	RAMY	7666	
10	ASR	1330E	2203	S13	W85	02	4.1			9	9	E	RAMY	7664	
10	AFS	1345E	1416	N08	E30	02	12.8		01	8	8	E	SVTO	7668	
10	DSD	1415E	1416	N19	W36	02	7.8		03	8	8	E	SVTO	7666	
10	ASR	1420E	2351	S09	W90	02	3.8			9	9	E	HOLL	7664	
10	ADF	1542E	2203	S10	W23	02	8.9	1	05	7	9	E	RAMY	7667	
10	DSD	1606E	2203	N18	W38	02	7.8		03	8	9	E	RAMY	7666	
10	SSB	1645		419	W09	02	9.3			0	0	E	HOLL		
10	SSB	1716		418	W08	02	9.4			0	0	E	RAMY		453 W43 120 W70
10	DSD	1733E	2048D	N05	E32	02	13.1		04	9	9	E	HOLL	7668	
10	APR	1820E	1825	N06	W88	02	4.2	1		9	9	E	HOLL	7665	
10	EPL	1825	1848	N06	W88	02	4.2			9	9	E	HOLL	7665	
10	BSL	1828E	1856D	N04	W81	02	4.7			9	9	E	RAMY	7665	
10	ADF	2005E	2351	S12	W24	02	9.0		04	6	6	E	HOLL	7667	
11	ASR	0320E	0700D	S12	W88	02	4.5			9	8	E	LEAR	7664	
11	BSL	0839E	0843	S72	W90	02	3.1	1-				C	CATA		
11	ADF	1129E	1631D	N15	W43	02	8.2	1	04	9	9	E	RAMY	7666	
11	AFS	1129E	2200	N17	W46	02	8.0		01	9	9	E	RAMY	7666	
11	ASR	1132E	2200	N08	E90	02	18.2			9	9	E	RAMY	7669	
11	SSB	1209		421	W21	02	9.9			0	0	E	RAMY		
11	ASR	1215E	1429D	S15	W90	02	4.7			9	9	E	RAMY	7664	
11	DSD	1256E	1643D	N08	E11	02	12.4		03	9	9	E	RAMY	7668	
11	ASR	1631E	1721D	N00	W90	02	5.0			9	9	E	RAMY	7665	
11	ASR	1719E	2333	N08	E90	02	18.5			9	9	E	HOLL	7669	
11	DSD	1814E	1902D	N09	E08	02	12.4		04	8	9	E	HOLL	7668	
11	SSB	1830		420	W23	02	10.2			0	0	E	HOLL		
12	ASR	0220E	0830D	N10	E90	02	18.8			9	9	E	LEAR	7669	
12	BSL	0841E	0844D	N64	E90	02	20.4	1-				C	CATA		
12	BSL	1020E	1030	N13	E90	02	19.2	1					KHAR		A
12	BSL	1020E	1042	N12	E90	02	19.2	1					KHAR		A
12	AFS	1146E	2204	N17	W60	02	7.9		02	9	9	E	RAMY	7666	
12	DSD	1216E	1454D	N08	E01	02	12.6		01	9	9	E	RAMY	7668	
12	DSD	1217E	1454D	N10	E09	02	13.2		01	9	9	E	RAMY	7668	
12	DSF	1220U	0737U	S10	W40	02	9.5	1				C	CATA		
12	SSB	1222		417	W30	02	11.2			0	0	E	RAMY		
12	APR	1356E	1439D	N12	E90	02	19.4	1		9	9	E	RAMY		
12	BSD	1404E	1422D	N10	E82	02	18.7		07	9	9	E	RAMY		
12	APR	1411E	1439D	N17	E90	02	19.4	1		9	9	E	RAMY		
12	ASR	1607E	1752D	N14	E90	02	19.5			9	9	E	HOLL		
12	SSB	1612		421	W36	02	11.0			0	0	E	HOLL		
12	DSD	1634E	2204	N09	W05	02	12.3		03	9	9	E	RAMY	7668	
12	DSD	1636E	2204	N06	E62	02	17.3		01	9	9	E	RAMY	7669	
12	ASR	1640E	1830D	N09	E89	02	19.4			9	9	E	RAMY	7670	
12	ASR	1727E	2204	N13	E90	02	19.5			9	9	E	RAMY	7670	
13	ASR	0045E	1046	N18	E90	02	19.9			9	9	E	LEAR	7670	
13	APR	1234E	2147	N04	E90	02	20.2	1		9	9	E	RAMY		
13	ADF	1411E	2147	N07	W10	02	12.8	1	03	9	9	E	RAMY	7668	
13	DSD	1615E	2147	N09	W17	02	12.4		03	9	9	E	RAMY	7668	
13	DSD	1617E	2147	N06	W17	02	12.4		02	9	9	E	RAMY	7668	
13	DSD	1626E	2147	N08	E64	02	18.5		02	9	9	E	RAMY	7670	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
13	ASR	1630E	1951D	N05	E89	02	20.3			9	9	E	RAMY		
13	APR	1722E	0007	N04	E90	02	20.4			9	9	E	HOLL	7671	
13	DSD	2242E	0007	N11	E69	02	19.1		05	9	6	E	HOLL	7670	
14	BSL	1009E	1018	N60	E90	02	22.3	1-				C	CATA		
14	BSL	1018	1028	N16	E90	02	21.2	1-				C	CATA		
14	DSD	1149E	1607	N10	E59	02	18.9		06	9	9	E	RAMY	7670	
14	ASR	1149E	1607	N12	E77	02	20.3			9	9	E	RAMY	7671	
14	AFS	1149E	1607	N13	E75	02	20.1		02	9	9	E	RAMY	7671	
14	SSB	1155		421	W60	02	12.6			0	0	E	RAMY		
14	BSL	1234E	1241D	N15	E90	02	21.3	1-				C	CATA		
14	ADF	1718E	2227	N15	E58	02	19.1	1	07	9	9	E	HOLL	7670	
14	ADF	1720E	2227	N09	E64	02	19.5	1	20	9	9	E	HOLL	7671	
14	AFS	2113E	2227	N08	E54	02	18.9		03	9	9	E	HOLL	7670	
14	DSD	2113E	2227	N09	E55	02	19.0		02	9	9	E	HOLL	7670	
14	AFS	2320E	1029	N10	E52	02	18.9		02	9	9	E	LEAR	7670	
15	ADF	0100E	1029	N02	E64	02	19.8	1	04	9	9	E	LEAR	7671	
15	ADF	0100E	1029	N08	E60	02	19.5	1	07	9	9	E	LEAR	7671	
15	ADF	0105E	1029	N11	W29	02	12.9	1	09	9	9	E	LEAR	7668	
15	DSD	0345E	0400D	N07	W30	02	12.9		02	9	9	E	LEAR	7668	
15	ASR	0525E	0620D	N21	W87	02	8.5			9	9	E	LEAR	7666	
15	ADF	1130	1158	N04	W52	02	11.6	1					KHAR		B
15	SSB	1135		423	W78	02	13.3			0	0	E	RAMY		
15	ADF	1135E	1305D	N04	W38	02	12.6	1	05	9	9	E	RAMY	7668	
15	AFS	1140E	2149	N10	E46	02	18.9		02	9	9	E	RAMY	7670	
15	AFS	1145E	2149	N10	E60	02	20.0		02	9	9	E	RAMY	7671	
15	DSD	1553E	2149	N08	W36	02	13.0		02	9	9	E	RAMY	7668	
15	ADF	1553E	2149	N08	W39	02	12.7	1	05	9	9	E	RAMY	7668	
15	ADF	1609E	2149	N17	E47	02	19.2	1	13	9	9	E	RAMY	7670	
15	ADF	1653E	2303D	N06	E59	02	20.1	1	13	9	9	E	HOLL	7671	
15	ADF	1722E	2149	N03	E57	02	20.0	1	04	9	9	E	RAMY	7671	
15	ADF	1930E	2334D	N15	E45	02	19.2	1	10	9	9	E	HOLL	7670	
15	DSD	2216E	0042	N09	E50	02	19.7		03	9	9	E	HOLL	7671	
15	AFS	2254E	1040	N08	W39	02	13.0		02	9	9	E	LEAR	7668	
15	DSD	2333E	0042	N08	W41	02	12.9		02	9	9	E	HOLL	7668	
15	AFS	2341E	0945D	N15	E49	02	19.7		02	9	9	E	LEAR	7671	
16	ADF	0145E	1040	N07	E33	02	18.5	1	07	9	9	E	LEAR	7670	
16	DSD	0257E	0324D	N03	E29	02	18.3		04	9	9	E	LEAR	7670	
16	AFS	1115E	2142	N13	E48	02	20.1		02	9	9	E	RAMY	7671	
16	ADF	1115E	2142	N16	E33	02	19.0	1	05	9	9	E	RAMY	7670	
16	ADF	1230E	2142	N07	E47	02	20.0	1	15	9	9	E	RAMY	7671	
16	AFS	1233E	2142	N07	E25	02	18.4		02	9	9	E	RAMY	7670	
16	DSD	1234E	2142	N05	E44	02	19.8		02	9	9	E	RAMY	7671	
16	DSD	1247E	2142	N08	W46	02	13.1		02	9	9	E	RAMY	7668	
16	AFS	1355E	2142	N10	W50	02	12.8		02	9	9	E	RAMY	7668	
16	AFS	1359E	2142	N10	E28	02	18.7		02	9	9	E	RAMY	7670	
16	ADF	1400E	2142	N06	E22	02	18.2	1	06	9	9	E	RAMY	7670	
16	DSD	1403E	2142	N03	E32	02	19.0		01	9	9	E	RAMY		
16	SSB	1409		390	W58	02	8.7			0	0	E	RAMY		
16	ADF	1442E	2013D	N10	W52	02	12.7	1	06	7	8	E	HOLL	7668	
16	ADF	1446E	0009	N15	E36	02	19.3	1	26	9	9	E	HOLL	7670	
16	ADF	1453E	0009	N06	E46	02	20.1	1	13	9	9	E	HOLL	7671	
16	AFS	1454E	1946D	N07	E25	02	18.5		02	9	8	E	HOLL	7670	
16	DSD	1501E	1623D	N05	E46	02	20.1		03	9	9	E	HOLL	7671	
16	DSD	1705E	1809D	N50	W07	02	16.1		02	7	9	E	HOLL	7668	
16	AFS	1908E	0009	N09	W36	02	14.1		02	9	9	E	HOLL		
16	DSD	1914E	1946D	N10	W51	02	13.0		02	9	9	E	HOLL	7668	Flare Associated
16	DSD	2010E	2152D	N09	W51	02	13.0		03	9	9	E	HOLL	7668	
16	DSD	2223E	2336D	N10	W52	02	13.0		04	9	9	E	HOLL	7668	
17	ADF	0100E	1024	N06	E40	02	20.0	1	15	9	9	E	LEAR	7670	
17	ADF	0350E	1024	N02	E43	02	20.4	1	20	9	9	E	LEAR	7671	
17	AFS	0530E	1024	N07	W42	02	14.1		03	9	9	E	LEAR		
17	ADF	1139E	2201	N17	E22	02	19.1	1	08	9	9	E	RAMY	7670	
17	ADF	1141E	2201	N07	E34	02	20.0	1	16	9	9	E	RAMY	7671	
17	DSD	1156E	1702D	N01	E20	02	19.0		02	9	9	E	RAMY	7672	
17	AFS	1159E	2201	N09	E34	02	20.0		02	9	8	E	RAMY	7671	
17	SSB	1204		336	W16	02	14.8			0	0	E	RAMY		384 W63

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
17	SSB	1204		384	W63	02	10.0			0	0	E	RAMY		
17	DSD	1218E	2201	S08	W61	02	12.9		02	9	9	E	RAMY	7668	
17	AFS	1654E	2201	N09	W49	02	14.0		01	9	9	E	RAMY	7673	
17	AFS	1714E	2201	N08	W69	02	12.5		02	9	9	E	RAMY	7668	
17	AFS	1715E	2201	N07	E09	02	18.4		03	9	9	E	RAMY	7670	
17	DSD	1849E	2201	N09	W50	02	14.0		01	9	9	E	RAMY	7673	
17	DSF	1857U	1218U	S20	E05	02	18.2	2	05	0	0	E	RAMY		
17	AFS	1908E	0009	N09	W36	02	15.1		02	9	9	E	HOLL		
17	AFS	2345E	1031	N08	W53	02	14.0		02	9	9	E	LEAR	7673	
18	ADF	0020E	1031	N06	E28	02	20.1	1	15	9	9	E	LEAR	7671	
18	ADF	0210E	1031	N16	E16	02	19.3	1	11	9	9	E	LEAR	7670	
18	ADF	1118E	2136	N09	E22	02	20.1	1	16	9	9	E	RAMY	7671	
18	SSB	1128		336	W28	02	15.7			0	0	E	RAMY		384 W76
18	AFS	1208E	2136	N10	E20	02	20.0		02	7	6	E	RAMY	7671	
18	AFS	1211E	1626D	N08	W74	02	12.9		02	8	6	E	RAMY	7668	
18	DSD	1211E	1626D	N09	W76	02	12.8		02	9	9	E	RAMY	7668	
18	ADF	1710E	2349	N07	E19	02	20.1	1	10	9	9	E	HOLL	7671	
19	ADF	0010E	1026	N09	E14	02	20.0	1	15	9	9	E	LEAR	7671	
19	AFS	0745E	1026	S14	E34	02	21.9		03	9	9	E	LEAR		
19	ASR	0810E	1026	N08	E90	02	26.1			9	9	E	LEAR		
19	AFS	0849E	1026	S18	E02	02	19.5		01	9	9	E	LEAR		
19	ADF	1030	1215	N06	E06	02	19.9						ATHN		
19	ASR	1214E	1404D	N01	E90	02	26.2			9	9	E	RAMY		
19	ASR	1214E	1930D	N06	E90	02	26.2			9	9	E	RAMY		
19	AFS	1218E	2151	S14	E31	02	21.8		02	9	9	E	RAMY		
19	ADF	1220E	2151	N06	E09	02	20.2	1	16	9	9	E	RAMY	7671	
19	ASR	1304E	1404D	N12	W90	02	12.8			8	8	E	RAMY	7668	
19	SSB	1310		317	W23	02	18.2			0	0	E	RAMY		
19	ADF	1624E	2151	N12	W13	02	18.7	1	06	9	9	E	RAMY	7670	
19	DSD	1626E	1930D	N10	E05	02	20.1		02	9	9	E	RAMY	7671	
19	AFS	2050E	2151	N13	E03	02	20.1		02	9	9	E	RAMY	7671	
19	DSD	2051E	2151	N11	W03	02	19.6		02	9	9	E	RAMY	7671	
20	DSF	0741U	0706U	N04	E05	02	20.7	1				C	CATA		
20	BSL	0748	0748D	S04	W90	02	13.6	1-				C	CATA		
20	AFS	0756E	1527	N09	W04	02	20.0		02	9	9	E	SVTO	7671	
20	ADF	0757E	1527	N07	W08	02	19.7	1	07	9	9	E	SVTO	7671	
20	AFS	0812E	1527	N01	W13	02	19.4		02	9	9	E	SVTO	7672	
20	DSF	0816U	0200U	S06	E04	02	20.6	3	17	0	0	E	LEAR	7671	Flare Associated
20	DSD	1126E	1624	N09	W11	02	19.6		02	9	9	E	RAMY	7671	
20	AFS	1128E	1624	N10	W05	02	20.1		03	9	9	E	RAMY	7671	
20	ADF	1130E	1624	N07	W07	02	19.9	1	05	9	9	E	RAMY	7671	
20	AFS	1132E	1400D	S14	E17	02	21.8		01	9	9	E	RAMY	7674	
20	DSD	1135E	1624	N12	W26	02	18.5		02	9	9	E	RAMY	7670	
20	ADF	1136E	1624	N10	W22	02	18.8	1	06	9	9	E	RAMY	7670	
20	BSL	1142E	1142D	S15	E90	02	27.3	1-				C	CATA		
20	BSL	1142E	1142D	S69	W90	02	12.3	1-				C	CATA		
20	BSL	1154E	1154D	S16	E90	02	27.3	1-				C	CATA		
20	AFS	1159E	1527	N01	E73	02	25.9		02	9	9	E	SVTO		
20	AFS	1159E	1527	S14	E19	02	21.9		02	9	9	E	SVTO	7674	
20	BSL	1232E	1240D	S16	E90	02	27.3	1-				C	CATA		
20	APR	1242E	1401D	S16	E90	02	27.3	1		9	9	E	RAMY		
20	AFS	1244E	1624	N04	E68	02	25.6		02	9	9	E	RAMY		
20	SSB	1359		310	W30	02	19.8			0	0	E	RAMY		
20	ASR	1545E	1624	N10	E90	02	27.4			9	9	E	RAMY		
20	AFS	1621E	0011	N09	W08	02	20.1		02	7	8	E	HOLL	7671	
20	DSF	1637U	1157U	N08	W10	02	19.9	2	19	0	0	E	RAMY		
20	DSD	2104E	2230D	N09	W10	02	20.1		01	9	9	E	HOLL	7671	
20	ADF	2137E	0011	N12	W30	02	18.6	1	05	9	9	E	HOLL	7670	
21	AFS	1131E	1843	N10	W20	02	20.0		02	9	9	E	RAMY	7671	
21	DSD	1133E	1843	N09	W27	02	19.4		03	9	9	E	RAMY	7671	
21	DSD	1136E	1636D	N07	W50	02	17.7		01	9	9	E	RAMY	7669	
21	DSD	1141E	1404D	N13	W38	02	18.6		01	9	9	E	RAMY	7670	
21	DSD	1144E	1407D	N04	E55	02	25.6		01	9	9	E	RAMY		
21	AFS	1144E	1643D	N01	E59	02	25.9		02	9	9	E	RAMY		
21	AFS	1231E	1843	N09	E71	02	26.8		02	9	9	E	RAMY		
21	SSB	1232		317	W49	02	20.1			0	0	E	RAMY		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
21	DSD	1302E	1843	N12	W21	02	20.0		02	9	9	E	RAMY	7671	
21	ADF	1304E	1843	N11	W41	02	18.4	1	04	9	9	E	RAMY	7670	
21	DSD	1505E	1843	S10	E60	02	26.1		02	9	9	E	RAMY		
21	AFS	1505E	1843	S12	E61	02	26.2		02	9	9	E	RAMY		
21	AFS	1641E	1843	S09	W75	02	16.1		02	9	9	E	RAMY		
21	ADF	1651E	1843	S10	E59	02	26.1	1	07	9	9	E	RAMY		
21	ADF	1751E	1843	N10	W23	02	20.0	1	09	9	9	E	RAMY	7671	
22	ADF	0700E	1608	N06	W35	02	19.7	2	08	9	9	E	SVTO	7671	
22	SSB	0822		317	W59	02	20.8			0	0	E	SVTO		
22	AFS	0840E	1608	S11	E55	02	26.5		02	9	9	E	SVTO		
22	AFS	0840E	1608	S13	E51	02	26.2		02	9	9	E	SVTO		
22	AFS	0840E	1608	S14	E54	02	26.4		03	9	9	E	SVTO		
22	DSD	0910E	1115D	N10	W33	02	19.9		04	9	9	E	SVTO	7671	
22	AFS	0910E	1608	N11	W33	02	19.9		01	9	9	E	SVTO	7671	
22	BSL	1043	1053	N86	W90	02	14.0	1-				C	CATA		
22	AFS	1243E	1935	N09	W28	02	20.4		03	9	9	E	RAMY	7671	
22	DSD	1245E	1935	N11	W37	02	19.7		02	9	9	E	RAMY	7671	
22	ADF	1246E	1614D	N15	W31	02	20.2	1	05	9	9	E	RAMY	7671	
22	ADF	1250E	1615D	N11	W53	02	18.5	1	07	9	9	E	RAMY	7670	
22	AFS	1251E	1935	S15	W09	02	21.8		01	8	9	E	RAMY	7674	
22	DSD	1259E	1935	N01	E44	02	25.8		01	9	9	E	RAMY		
22	DSD	1306E	1935	N09	E56	02	26.7		04	9	9	E	RAMY	7676	
22	DSD	1309E	1935	N10	E61	02	27.1		01	9	9	E	RAMY	7676	
22	ADF	1311E	1935	S14	E51	02	26.4	1	03	9	9	E	RAMY	7675	
22	DSD	1312E	1935	S13	E46	02	26.0		01	9	9	E	RAMY	7675	
22	AFS	1328E	1935	N19	W06	02	22.1		01	9	9	E	RAMY	7677	
22	DSD	1400E	1608	N09	E56	02	26.8		08	9	9	E	SVTO		
22	AFS	1435E	2205	N12	W36	02	19.9		02	9	9	E	HOLL	7671	
22	AFS	1500E	1608	N18	W07	02	22.1		01	9	9	E	SVTO		
22	ADF	1630E	1935	S19	E63	02	27.5	1	04	9	9	E	RAMY		
22	ADF	2334E	0024	N07	W40	02	20.0	1	05	9	9	E	HOLL	7671	
23	DSD	0700E	1211	N09	E47	02	26.8		03	9	9	E	SVTO	7676	
23	DSD	0715E	1211	N03	W43	02	20.1		05	9	9	E	SVTO	7671	
23	AFS	0715E	1211	S12	E39	02	26.2		02	9	9	E	SVTO	7675	
23	BSL	0815	0815D	S80	W90	02	15.0	1-				C	CATA		
23	AFS	0830E	1211	N11	W45	02	20.0		02	9	9	E	SVTO	7671	
23	BSL	0913E	0920D	S01	E90	03	2.1	1-				C	CATA		
23	DSD	1122E	1807	S08	E63	02	28.2		02	9	9	E	RAMY		
23	DSD	1131E	1807	S11	E33	02	26.0		02	9	9	E	RAMY	7675	
23	AFS	1131E	1807	S11	E36	02	26.2		02	9	9	E	RAMY	7675	
23	CAP	1142E	1637D	S17	E90	03	2.3		01	9	9	E	RAMY		
23	ASR	1142E	1807	S18	E90	03	2.3			9	9	E	RAMY		
23	DSF	1240U	0810U	N23	E17	02	24.8	1				C	CATA		
23	AFS	1440E	0048	S11	E35	02	26.2		01	9	9	E	HOLL	7675	
23	ASR	1522	0048	S17	E90	03	2.5			9	9	E	HOLL		
23	AFS	1645E	1807	S08	E62	02	28.3		02	9	9	E	RAMY		
23	AFS	1650E	1807	N08	E40	02	26.7		01	9	9	E	RAMY	7676	
23	ADF	1650E	1807	N10	E45	02	27.1	1	05	9	9	E	RAMY	7676	
23	DSD	1703E	1807	N08	W52	02	19.8		02	9	9	E	RAMY	7671	
23	AFS	1703E	1807	N11	W50	02	19.9		01	9	9	E	RAMY	7671	
23	DSD	1812E	2305	S11	E29	02	25.9		03	9	9	E	HOLL	7675	
23	ADF	1950E	0048	N10	E43	02	27.0	1	06	9	9	E	HOLL	7676	
23	DSD	2312E	0206	S11	E29	02	26.1		03	9	9	E	LEAR	7675	
24	AFS	1200E	1435	N10	W67	02	19.5		01	9	9	E	SVTO	7671	
24	BSL	1232E	1246	S57	W90	02	16.7	1-				C	CATA		
24	ADF	1600E	2012D	N09	W67	02	19.6	1	11	9	9	E	HOLL	7671	
24	DSD	1621E	1756	N18	W71	02	19.3		06	9	9	E	RAMY	7670	
24	DSD	1625E	1756	N10	W57	02	20.4		03	9	9	E	RAMY	7671	
24	AFS	1625E	2057	N11	W61	02	20.1		02	9	9	E	RAMY	7671	
24	AFS	1640E	1756	N08	E28	02	26.8		02	9	9	E	RAMY	7676	
24	AFS	1643E	2057	S11	E21	02	26.3		02	9	9	E	RAMY	7675	
24	ASR	1832E	2120D	N15	W83	02	18.5			9	9	E	HOLL	7670	
24	CAP	1943E	0049	N11	W89	02	18.1		01	9	9	E	HOLL	7670	
24	ASR	2011E	2216D	S14	E90	03	3.6			9	9	E	HOLL	7678	
24	DSD	2132E	2207D	N13	W72	02	19.5		02	9	9	E	HOLL	7671	
25	DSF	0027U	1421U	S30	E42	02	28.3	2	05	0	0	E	HOLL		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
25	ADF	0700E	0810	N11	W71	02	20.0	2	11	9	9	E	SVTO	7671	
25	ADF	0700E	1600	N23	E34	02	27.9	1	23	7	7	E	SVTO	7676	
25	APR	0750E	1600	N11	W90	02	18.5	1		9	9	E	SVTO	7671	
25	DSF	0810	0824	N11	W71	02	20.0	2	11	0	0	E	SVTO	7611	
25	ASR	1012E	1120D	N02	W90	02	18.7			9	9	E	SVTO	7671	
25	BSL	1145	1147	N53	E90	03	5.2	1-				C	CATA		
25	ASR	1257E	1612D	N08	W90	02	18.8			9	9	E	RAMY	7671	
25	DSD	1259E	1927	S14	E09	02	26.2		03	9	9	E	RAMY	7675	
25	ADF	1304E	1722D	S19	E66	03	2.6	1	04	9	9	E	RAMY	7678	
25	ADF	1306E	1927	N10	E19	02	27.0	1	04	9	9	E	RAMY	7676	
25	AFS	1320E	1600	S12	E09	02	26.2		01	8	8	E	SVTO	7675	
25	AFS	1410E	1600	N00	E30	02	27.8		01	9	9	E	SVTO		
25	AFS	1416E	1927	N02	E31	02	27.9		02	9	9	E	RAMY	7679	
25	AFS	1428E	0040	N01	E30	02	27.8		02	9	9	E	HOLL	7679	
25	APR	1444E	1655D	N17	W90	02	18.8	1		9	9	E	RAMY		
25	APR	1554E	1822D	N09	W90	02	18.9	1		9	9	E	HOLL	7671	
25	APR	1612E	1842D	N07	W90	02	18.9	1		9	9	E	RAMY	7671	
25	DSD	1801E	1927	N01	E29	02	27.9		01	9	9	E	RAMY	7679	
25	DSD	1955E	2055D	S14	E73	03	3.3		06	9	5	E	HOLL	7678	
26	DSD	0648E	1232D	S01	E21	02	27.8		02	9	9	E	SVTO	7679	
26	BSL	0721E	0725	N50	E90	03	5.9	1-				C	CATA		
26	DSD	0743E	1230D	S18	E56	03	2.6		01	9	9	E	SVTO	7678	
26	BSL	0953	1003	S68	W90	02	18.3	1-				C	CATA		
26	BSL	1020	1040	S11	E90	03	5.2	1-				C	CATA		
26	ASR	1023E	1057D	S14	E90	03	5.2			9	9	E	SVTO		
26	BSL	1025	1036	N81	W90	02	18.1	1-				C	CATA		
26	ASR	1039E	1054D	N02	W90	02	19.7			9	9	E	SVTO	7671	
26	ASR	1046E	1218D	N04	W90	02	19.7			9	9	E	SVTO	7671	
26	BSL	1115	1115D	N06	W90	02	19.7	1-				C	CATA		
26	BSL	1115	1115D	N10	W90	02	19.7	1-				C	CATA		
26	DSD	1115E	1330D	N09	W90	02	19.7		08	9	9	E	SVTO	7671	
26	ASR	1119E	1330D	N12	W90	02	19.7			9	9	E	SVTO	7671	
26	BSL	1125E	1131	N11	W90	02	19.7	1-				C	CATA		
26	BSL	1125E	1152	N07	W90	02	19.7	1-				C	CATA		
26	BSL	1149	1216D	N11	W90	02	19.7	1-				C	CATA		
26	AFS	1149E	2128	N01	E18	02	27.8		01	9	9	E	RAMY	7679	
26	ASR	1158E	1417D	N11	W90	02	19.7			9	9	E	RAMY	7671	
26	BSL	1205E	1216D	S08	E90	03	5.2	1-				C	CATA		
26	AFS	1214E	2128	S14	E61	03	3.1		01	9	9	E	RAMY	7678	
26	DSD	1214E	2128	S15	E54	03	2.6		01	9	9	E	RAMY	7678	
26	ASR	1220E	2128	N08	W90	02	19.8			9	9	E	RAMY	7671	
26	BSL	1226E	1235D	N06	W90	02	19.8	1				C	CATA		
26	BSL	1230	1235D	S12	E90	03	5.3	1-				C	CATA		
26	ASR	1230E	1427D	S13	E85	03	4.9			9	9	E	RAMY		
26	ASR	1230E	1507D	S14	E90	03	5.3			9	9	E	SVTO		
26	AFS	1230E	1620	S15	E60	03	3.1		02	9	9	E	SVTO	7678	
26	AFS	1232E	1620	N00	E18	02	27.9		02	9	9	E	SVTO	7679	
26	BSL	1245E	1248D	S13	E90	03	5.3	1				C	CATA		
26	ASR	1425E	1523D	N09	W90	02	19.8			9	9	E	SVTO	7671	
26	DSD	1427E	2128	S13	E84	03	4.9		01	9	9	E	RAMY	7680	
26	ASR	1457E	1717D	S15	E89	03	5.4			9	9	E	HOLL		
26	AFS	1506E	0040	N00	E17	02	27.9		02	8	9	E	HOLL	7674	
26	APR	1524E	1922D	S14	E90	03	5.4	1		9	9	E	RAMY	7680	
26	APR	1529E	1717D	S14	E90	03	5.4	1		9	9	E	HOLL		
26	AFS	1540E	1620	S14	E79	03	4.6		02	9	9	E	SVTO		
26	AFS	1622E	2128	S19	E32	03	1.1		01	9	9	E	RAMY		
26	APR	1905E	2240D	N09	W89	02	20.1	1		9	9	E	HOLL	7671	
26	APR	1919E	2128	N11	W90	02	20.0	1		9	9	E	RAMY	7671	
26	DSD	1927E	2128	S13	W07	02	26.3		01	9	9	E	RAMY	7675	
26	DSD	2128E	2240D	S16	E55	03	3.1		04	9	9	E	HOLL	7678	
26	DSD	2343E	0040	S13	W12	02	26.1		03	9	9	E	HOLL	7675	Flare Associated
26	APR	2353E	0040	N10	W90	02	20.2	1		9	9	E	HOLL	7671	
27	DSD	0637E	1230D	N02	E07	02	27.8		01	9	9	E	SVTO	7679	
27	BSL	0713	0720	N71	E90	03	7.5	1-				C	CATA		
27	DSD	0715E	0916D	S15	E57	03	3.6		01	9	9	E	SVTO	7678	
27	BSL	0726	0730D	N17	W90	02	20.5	1-				C	CATA		
27	BSL	0726	0730D	N67	E90	03	7.4	1-				C	CATA		
27	BSL	0806	0822	S89	E90	03	7.7	1-				C	CATA		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
27	BSL	0822	0840	S11	W90	02	20.6	1-				C	CATA		
27	BSL	0822	0840	S14	W90	02	20.5	1-				C	CATA		
27	EPL	0830E	0915D	S01	W90	02	20.6	2				C	CATA		
27	DSD	0907E	1614	S14	E75	03	5.0		03	9	9	E	SVTO	7680	
27	AFS	0923E	1614	N02	E07	02	27.9		01	9	9	E	SVTO	7679	
27	BSL	0927E	0945D	N09	W90	02	20.6	1-				C	CATA		
27	APR	0944E	1614	N11	W90	02	20.6	1		9	9	E	SVTO		
27	BSL	0958E	1100D	N10	W90	02	20.6	1				C	CATA		
27	BSL	1012	1043	N51	W90	02	19.8	1				C	CATA		
27	BSL	1116E	1200D	N10	W90	02	20.7	1				C	CATA		
27	DSD	1120E	2223	S16	E40	03	2.5		02	9	9	E	RAMY	7678	
27	DSD	1121E	2223	S13	E49	03	3.2		02	9	9	E	RAMY	7678	
27	AFS	1122E	1614	S11	W25	02	25.6		01	9	9	E	SVTO		
27	AFS	1125E	1627D	S11	W15	02	26.3		02	9	9	E	RAMY	7675	
27	DSD	1126E	1529D	S13	W13	02	26.5		03	9	9	E	RAMY	7675	
27	AFS	1129E	1418D	N09	W10	02	26.7		02	9	9	E	RAMY	7676	
27	DSD	1131E	2223	N01	E04	02	27.8		01	9	9	E	RAMY	7679	
27	AFS	1132E	2223	N01	E07	02	28.0		02	9	9	E	RAMY	7679	
27	AFS	1133E	2223	S13	E70	03	4.8		02	9	9	E	RAMY	7680	
27	DSD	1135E	1530D	N02	W21	02	25.9		02	9	9	E	RAMY		
27	AFS	1145E	1614	S12	E72	03	4.9		02	9	9	E	SVTO	7680	
27	AFS	1147E	1614	S13	E50	03	3.3		02	9	9	E	SVTO	7678	
27	DSD	1214E	2223	S11	E73	03	5.0		02	9	9	E	RAMY	7680	
27	ADF	1217E	2223	N08	W10	02	26.8	1	08	9	9	E	RAMY	7676	
27	AFS	1219E	2223	N11	W67	02	22.5		01	9	9	E	RAMY	7677	
27	AFS	1225E	1614	N13	W68	02	22.4		01	9	9	E	SVTO		
27	ASR	1428E	2223	N11	W90	02	20.8			9	9	E	RAMY		
27	SSB	1430		211	W23	02	28.4			0	0	E	RAMY		
27	DSD	1511E	1558D	S12	E71	03	5.0		02	9	7	E	HOLL	7680	
27	APR	1553E	2215D	N11	W89	02	21.0	1		9	9	E	HOLL		
27	DSD	1557E	0040	S12	E73	03	5.2		08	9	9	E	HOLL	7680	
27	ADF	1829E	0040	S19	W19	02	26.3	1	03	9	9	E	HOLL		
27	AFS	1957E	2223	S19	E16	03	1.0		02	9	9	E	RAMY		
27	AFS	2108E	0040	S20	E15	03	1.0		02	9	9	E	HOLL		
27	DSF	2154U	1152U	N04	E07	02	28.4	2	05	0	0	E	RAMY		
27	ASR	2215E	0040	N12	W90	02	21.1			9	9	E	HOLL		
27	DSF	2350U	1540U	S14	E28	03	2.1	2	15	0	0	E	HOLL		
27	AFS	2350E	1036	S10	E65	03	4.9		02	8	8	E	LEAR	7680	
28	AFS	0247E	1036	S19	E12	03	1.0		03	9	9	E	LEAR		
28	SSB	0308		198	W17	03	7.6			0	0	E	LEAR		
28	DSD	0707E	0756D	S10	E63	03	5.0		02	9	9	E	SVTO	7680	
28	AFS	0713E	0946	S13	E62	03	5.0		02	9	9	E	SVTO	7680	
28	AFS	0716E	0946	S12	E44	03	3.6		02	9	9	E	SVTO	7678	
28	AFS	0720E	0946	S19	E10	03	1.1		02	9	9	E	SVTO		
28	AFS	0736E	0946	S04	E12	03	1.2		02	9	9	E	SVTO	7679	
28	BSL	1058	1058D	S72	W90	02	20.2	1-				C	CATA		
28	DSD	1120E	2125D	S15	E54	03	4.6		02	9	9	E	RAMY	7680	
28	AFS	1121E	2215	S13	E58	03	4.8		02	9	9	E	RAMY	7680	
28	AFS	1132E	1625D	S12	W29	02	26.3		02	9	9	E	RAMY	7675	
28	ADF	1135E	2215	N08	W22	02	26.8	1	09	9	9	E	RAMY	7676	
28	AFS	1139E	2215	N10	W23	02	26.7		02	9	8	E	RAMY	7676	
28	AFS	1141E	2215	N02	W09	02	27.8		02	9	9	E	RAMY	7679	
28	AFS	1143E	2215	N06	W34	02	25.9		03	9	9	E	RAMY		
28	AFS	1144E	2215	S19	E08	03	1.1		03	9	9	E	RAMY	7682	
28	SSB	1221		212	W36	03	1.5			0	0	E	RAMY		
28	ASR	1301E	2215	N12	W83	02	22.3			9	9	E	RAMY	7677	
28	DSD	1349E	2215	S20	E05	02	28.9		02	9	9	E	RAMY	7682	
28	DSD	1558E	1959D	S11	E56	03	4.9		03	9	9	E	HOLL	7680	
28	AFS	1607E	2235	S20	E04	03	1.0		03	9	9	E	HOLL	7682	
28	DSF	2147U	1201U	N07	E58	03	5.2	1	11	0	0	E	RAMY		
28	AFS	2211E	2235	S12	E54	03	5.0		02	9	9	E	HOLL	7680	
28	AFS	2315E	1034	S11	E53	03	4.9		04	9	9	E	LEAR	7680	

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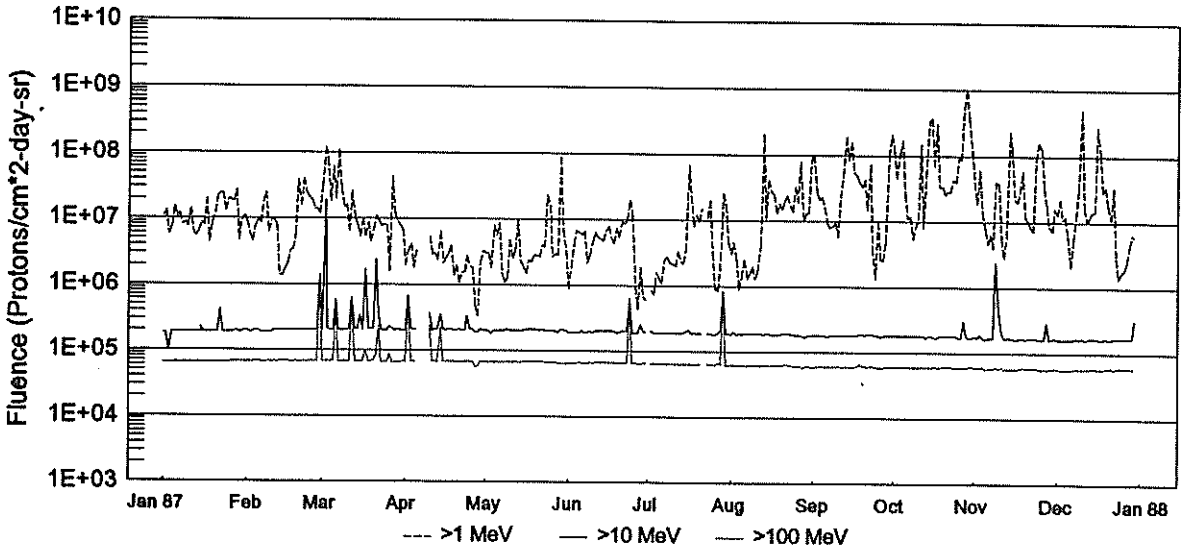
Comprehensive Reports Number 600 Part II

MISCELLANEOUS DATA

GOES7 Daily Proton Fluences - 1987



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.1E+07	8.8E+06	3.2E+07	2.0E+06	3.0E+06	8.9E+05	–	1.1E+08	2.2E+06	3.8E+08	1.9E+07	1.3E+07
2	1.3E+07	5.8E+06	1.2E+08	3.2E+06	3.1E+06	1.9E+06	8.5E+05	7.4E+07	1.8E+04	2.2E+07	6.1E+07	2.2E+07
3	5.8E+06	4.6E+06	7.8E+07	4.1E+06	1.8E+06	4.2E+06	7.3E+05	1.5E+07	2.1E+04	1.3E+07	1.4E+07	1.1E+07
4	7.6E+06	7.7E+06	1.8E+07	1.8E+06	8.0E+06	6.7E+06	1.6E+06	5.0E+06	3.7E+04	2.7E+06	7.5E+06	1.2E+07
5	1.5E+07	9.6E+06	6.2E+07	3.4E+06	5.6E+06	6.3E+06	1.3E+06	2.0E+06	7.2E+04	1.4E+06	4.6E+06	6.1E+06
6	1.1E+07	8.5E+06	2.0E+07	--	8.8E+06	5.9E+06	1.1E+06	2.2E+06	1.2E+05	1.5E+07	6.4E+06	2.1E+06
7	1.2E+07	1.8E+07	1.1E+08	--	1.5E+06	6.5E+06	2.6E+06	7.8E+05	1.7E+05	2.7E+06	3.9E+06	5.4E+06
8	8.1E+06	2.5E+07	2.9E+07	--	1.1E+06	2.2E+06	2.7E+06	5.0E+05	1.2E+05	1.3E+06	4.0E+07	1.2E+07
9	8.8E+06	6.2E+06	1.5E+07	–	1.3E+06	2.8E+06	2.2E+06	5.3E+05	1.3E+05	1.8E+06	3.8E+07	3.2E+07
10	7.4E+06	9.9E+06	1.6E+07	5.4E+06	4.8E+06	4.7E+06	2.2E+06	3.7E+05	2.4E+05	2.9E+06	5.6E+06	5.1E+08
11	1.4E+07	9.5E+06	6.4E+06	2.9E+06	2.6E+06	6.4E+06	2.0E+06	3.2E+05	1.8E+05	2.0E+06	2.8E+06	1.7E+07
12	6.2E+06	8.0E+06	2.6E+07	3.0E+06	3.4E+06	5.3E+06	3.3E+06	5.6E+05	2.0E+05	–	6.0E+06	1.0E+07
13	5.3E+06	1.4E+06	1.0E+07	2.4E+06	1.0E+07	5.1E+06	2.3E+06	9.7E+06	1.1E+05	6.8E+05	2.4E+08	1.2E+07
14	6.3E+06	1.4E+06	7.6E+06	6.4E+06	2.3E+06	4.7E+06	2.2E+06	9.5E+06	2.1E+05	7.3E+05	1.3E+08	1.4E+07
15	8.7E+06	1.7E+06	5.3E+06	2.1E+06	2.0E+06	6.6E+06	3.5E+06	7.4E+06	3.3E+05	1.3E+06	2.2E+07	1.5E+07
16	7.8E+06	2.1E+06	1.0E+07	2.6E+06	1.5E+06	7.9E+06	6.9E+07	5.9E+06	3.3E+05	2.6E+06	2.0E+07	2.8E+08
17	2.0E+07	3.3E+06	5.4E+06	2.9E+06	2.4E+06	5.1E+06	2.3E+07	2.7E+06	2.0E+05	1.7E+06	2.9E+07	1.1E+08
18	4.4E+06	3.4E+06	8.7E+06	3.9E+06	2.2E+06	4.4E+06	8.1E+06	7.1E+05	1.3E+06	1.6E+06	6.0E+07	2.9E+07
19	8.3E+06	5.9E+06	4.5E+06	1.4E+06	2.8E+06	7.3E+06	1.2E+07	2.6E+05	1.5E+05	1.3E+08	1.2E+07	3.4E+07
20	1.2E+07	3.9E+07	6.7E+06	2.0E+06	2.8E+06	5.5E+06	9.5E+06	2.9E+05	1.5E+05	6.4E+09	1.0E+07	1.8E+07
21	2.2E+07	1.6E+07	1.1E+07	1.1E+06	2.7E+06	9.4E+06	1.5E+07	1.0E+06	1.6E+05	1.6E+09	8.0E+06	1.1E+07
22	2.4E+07	4.0E+07	9.4E+06	1.5E+06	4.0E+06	8.5E+06	–	1.2E+06	1.5E+05	–	7.2E+06	3.3E+07
23	2.4E+07	2.5E+07	7.7E+06	1.6E+06	3.8E+06	1.0E+07	1.1E+07	1.7E+06	1.5E+05	8.6E+08	9.0E+07	2.8E+06
24	1.3E+07	2.1E+07	8.2E+06	2.7E+06	2.3E+07	2.0E+07	2.0E+07	2.6E+05	3.4E+05	8.8E+08	1.6E+08	1.4E+06
25	2.0E+07	1.9E+07	7.7E+06	1.9E+06	1.6E+07	1.2E+07	3.2E+06	3.2E+06	2.3E+05	–	1.3E+08	1.7E+06
26	1.9E+07	1.4E+07	1.6E+06	1.8E+06	2.7E+06	9.6E+05	9.2E+05	1.4E+07	2.7E+05	7.5E+08	3.3E+07	1.9E+06
27	1.8E+07	1.4E+07	4.4E+07	4.9E+05	3.0E+06	4.4E+05	8.5E+05	1.8E+06	2.9E+05	2.0E+08	1.7E+07	2.5E+06
28	2.7E+07	1.2E+07	1.2E+07	3.4E+05	2.8E+06	1.9E+06	2.6E+06	6.9E+05	2.0E+05	3.0E+07	8.6E+06	4.4E+06
29	4.7E+06		8.7E+06	2.2E+06	8.7E+07	6.6E+05	2.6E+07	4.6E+05	1.9E+05	2.9E+07	7.2E+06	6.4E+06
30	9.3E+06		7.8E+06	3.3E+06	6.8E+06	5.9E+05	1.7E+07	2.7E+05	2.8E+05	1.8E+07	1.6E+07	5.9E+06
31	1.1E+07		6.9E+06		3.2E+06		4.6E+06	1.9E+05		6.9E+06		–

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 >10 MeV Proton Fluence - 1987

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.8E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	--	7.7E+06	7.6E+03	7.2E+07	1.7E+05	1.6E+05
2	1.8E+05	1.9E+05	1.9E+07	6.7E+05	2.0E+05	1.9E+05	2.0E+05	4.3E+06	8.1E+03	4.0E+06	1.9E+05	1.6E+05
3	1.0E+05	1.9E+05	2.1E+05	2.1E+05	1.8E+05	1.9E+05	1.9E+05	7.3E+05	7.5E+03	2.6E+06	1.7E+05	1.6E+05
4	1.9E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	1.9E+05	1.9E+05	2.2E+05	7.6E+03	7.1E+05	1.6E+05	1.6E+05
5	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	1.9E+05	1.2E+05	9.4E+03	5.3E+05	1.7E+05	1.6E+05
6	1.9E+05	1.9E+05	5.9E+05	--	2.0E+05	2.0E+05	1.9E+05	7.7E+04	8.4E+03	9.5E+05	1.7E+05	1.6E+05
7	1.9E+05	1.9E+05	2.0E+05	--	2.0E+05	1.9E+05	1.9E+05	3.5E+04	8.7E+03	5.4E+05	1.7E+05	1.6E+05
8	1.9E+05	1.9E+05	2.0E+05	--	2.0E+05	1.9E+05	1.9E+05	1.6E+04	8.6E+03	5.0E+05	2.4E+06	1.7E+05
9	1.9E+05	1.9E+05	2.0E+05	--	2.1E+05	2.0E+05	1.9E+05	1.2E+04	8.9E+03	4.4E+05	4.2E+05	1.6E+05
10	1.9E+05	1.9E+05	2.0E+05	3.7E+05	2.0E+05	1.9E+05	1.9E+05	8.8E+03	8.7E+03	3.3E+05	2.1E+05	1.7E+05
11	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	1.1E+04	8.4E+03	3.2E+05	1.7E+05	1.6E+05
12	1.9E+05	2.0E+05	6.3E+05	2.1E+05	2.0E+05	2.0E+05	1.9E+05	4.3E+04	7.2E+03	--	1.7E+05	1.6E+05
13	1.9E+05	2.0E+05	2.1E+05	2.1E+05	2.0E+05	2.0E+05	1.9E+05	1.8E+05	7.6E+03	2.0E+05	1.7E+05	1.7E+05
14	1.9E+05	2.0E+05	2.1E+05	3.6E+05	2.0E+05	2.0E+05	1.9E+05	1.1E+05	7.9E+03	1.7E+05	1.7E+05	1.7E+05
15	1.9E+05	2.0E+05	3.5E+05	2.1E+05	2.0E+05	2.0E+05	2.0E+05	5.0E+04	8.8E+03	1.5E+05	1.6E+05	1.7E+05
16	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	2.4E+04	8.1E+03	1.5E+05	1.6E+05	1.7E+05
17	1.9E+05	2.0E+05	1.7E+06	2.1E+05	2.1E+05	2.0E+05	1.9E+05	1.0E+04	8.9E+03	1.5E+05	1.7E+05	1.6E+05
18	1.9E+05	2.0E+05	2.1E+05	2.1E+05	2.1E+05	2.0E+05	1.9E+05	7.0E+03	8.3E+03	1.2E+05	1.7E+05	1.6E+05
19	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	5.9E+03	8.2E+03	5.4E+07	1.6E+05	1.7E+05
20	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	6.3E+03	8.0E+03	1.4E+09	1.7E+05	1.6E+05
21	1.9E+05	2.0E+05	2.4E+06	2.1E+05	2.0E+05	2.0E+05	1.9E+05	6.0E+03	7.9E+03	2.1E+08	1.7E+05	1.6E+05
22	4.2E+05	2.0E+05	3.7E+05	2.0E+05	2.1E+05	2.0E+05	--	6.4E+03	6.8E+03	--	1.7E+05	1.7E+05
23	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	7.1E+03	8.0E+03	4.2E+08	1.7E+05	1.7E+05
24	1.9E+05	2.0E+05	2.0E+05	3.4E+05	2.0E+05	6.4E+05	1.9E+05	7.4E+03	8.9E+03	1.4E+08	1.6E+05	1.7E+05
25	1.9E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	1.9E+05	1.8E+05	1.9E+04	7.4E+03	--	1.6E+05	1.7E+05
26	1.9E+05	2.0E+05	2.3E+05	2.1E+05	2.0E+05	1.9E+05	1.8E+05	5.7E+04	7.4E+03	5.2E+07	1.6E+05	1.7E+05
27	1.9E+05	2.0E+05	2.1E+05	1.9E+05	2.0E+05	1.9E+05	1.9E+05	1.3E+04	7.0E+03	1.0E+07	2.9E+05	1.7E+05
28	2.0E+05	1.4E+06	2.0E+05	1.9E+05	1.9E+05	2.5E+05	2.1E+05	7.5E+03	7.8E+03	2.7E+06	1.6E+05	1.7E+05
29	1.9E+05		2.1E+05	2.1E+05	2.1E+05	2.0E+05	8.3E+05	7.7E+03	7.4E+03	2.0E+06	1.6E+05	1.7E+05
30	1.9E+05		2.0E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	8.2E+03	7.7E+03	8.1E+05	1.7E+05	3.2E+05
31	2.0E+05		2.0E+05		2.0E+05		1.9E+05	8.1E+03		5.1E+05		--

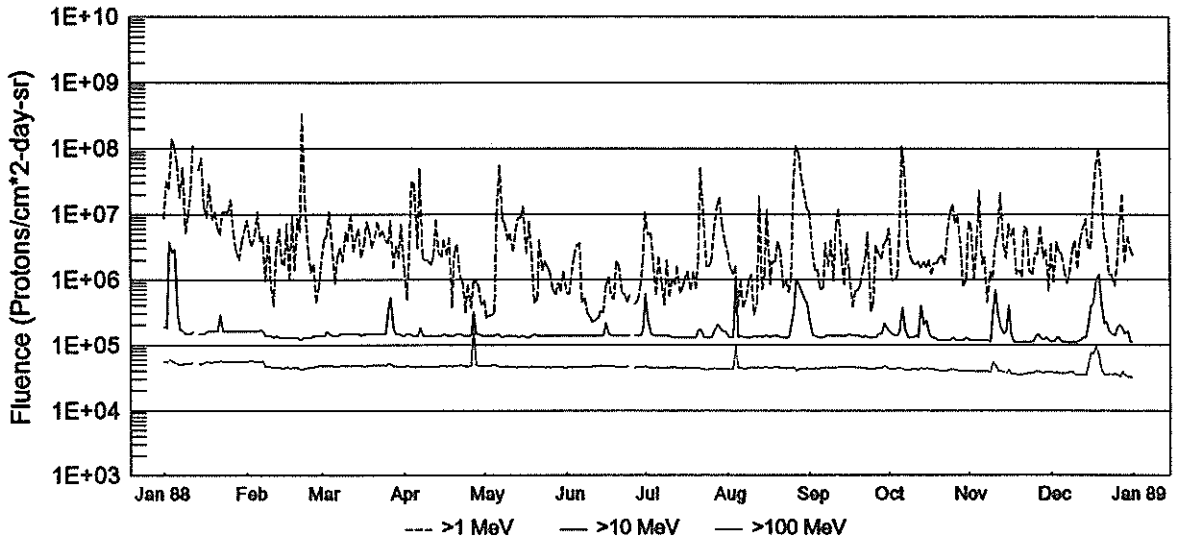
Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 >100 MeV Proton Fluence - 1987

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.4E+04	6.7E+04	6.9E+04	6.7E+04	6.7E+04	6.4E+04	--	2.1E+03	1.8E+03	7.9E+05	5.9E+04	5.7E+04
2	6.4E+04	6.7E+04	6.8E+04	5.3E+05	6.6E+04	6.5E+04	6.4E+04	1.8E+03	1.9E+03	1.4E+05	6.0E+04	5.6E+04
3	6.4E+04	6.7E+04	6.9E+04	6.8E+04	6.6E+04	6.5E+04	6.5E+04	1.5E+03	2.0E+03	8.7E+04	6.1E+04	5.6E+04
4	6.4E+04	6.8E+04	6.9E+04	6.7E+04	6.6E+04	6.5E+04	6.4E+04	1.3E+03	2.0E+03	6.6E+04	5.6E+04	5.6E+04
5	6.5E+04	6.8E+04	6.8E+04	7.0E+04	6.6E+04	6.6E+04	6.4E+04	1.5E+03	2.5E+03	5.1E+04	5.7E+04	5.6E+04
6	6.5E+04	6.7E+04	4.5E+05	--	6.7E+04	6.5E+04	6.4E+04	1.4E+03	2.1E+03	4.3E+04	5.7E+04	5.6E+04
7	6.4E+04	6.7E+04	6.8E+04	--	6.7E+04	6.5E+04	6.4E+04	1.4E+03	2.2E+03	3.9E+04	5.7E+04	5.7E+04
8	6.5E+04	6.7E+04	6.7E+04	--	6.7E+04	6.5E+04	6.4E+04	1.3E+03	2.3E+03	3.5E+04	6.0E+04	5.7E+04
9	6.5E+04	6.8E+04	6.8E+04	--	6.8E+04	6.6E+04	6.3E+04	1.4E+03	2.1E+03	3.2E+04	5.8E+04	5.7E+04
10	6.4E+04	6.7E+04	6.7E+04	2.3E+05	6.7E+04	6.5E+04	6.3E+04	1.4E+03	2.3E+03	2.9E+04	5.9E+04	5.7E+04
11	6.5E+04	6.8E+04	6.8E+04	6.8E+04	6.7E+04	6.6E+04	6.3E+04	1.6E+03	1.9E+03	2.8E+04	5.7E+04	5.7E+04
12	6.5E+04	6.7E+04	4.9E+05	6.8E+04	6.8E+04	6.7E+04	6.4E+04	1.7E+03	1.6E+03	--	5.7E+04	5.7E+04
13	6.5E+04	6.8E+04	6.8E+04	6.7E+04	6.7E+04	6.6E+04	6.4E+04	1.6E+03	1.8E+03	2.6E+04	5.7E+04	5.7E+04
14	6.5E+04	6.8E+04	6.8E+04	2.2E+05	6.7E+04	6.7E+04	6.4E+04	1.8E+03	1.9E+03	2.6E+04	5.7E+04	5.8E+04
15	6.5E+04	6.8E+04	6.9E+04	6.8E+04	6.8E+04	6.6E+04	6.3E+04	1.4E+03	1.7E+03	2.4E+04	5.7E+04	5.8E+04
16	6.5E+04	6.8E+04	6.9E+04	6.8E+04	6.8E+04	6.6E+04	6.4E+04	1.2E+03	1.7E+03	2.4E+04	5.7E+04	5.7E+04
17	6.5E+04	6.7E+04	1.0E+05	6.8E+04	6.8E+04	6.7E+04	6.3E+04	1.5E+03	1.8E+03	2.4E+04	5.8E+04	5.7E+04
18	6.5E+04	6.7E+04	6.8E+04	6.8E+04	6.8E+04	6.6E+04	6.2E+04	1.2E+03	1.9E+03	2.5E+04	5.9E+04	5.7E+04
19	6.5E+04	6.8E+04	6.7E+04	6.8E+04	6.9E+04	6.5E+04	6.3E+04	1.2E+03	1.7E+03	4.8E+06	5.8E+04	5.8E+04
20	6.5E+04	6.7E+04	7.2E+04	6.7E+04	6.8E+04	6.5E+04	6.3E+04	1.3E+03	1.8E+03	1.9E+07	5.8E+04	5.8E+04
21	6.5E+04	6.7E+04	8.6E+04	6.7E+04	6.8E+04	6.5E+04	6.3E+04	1.3E+03	1.7E+03	1.7E+06	5.8E+04	5.9E+04
22	6.5E+04	6.8E+04	2.3E+05	6.8E+04	6.8E+04	6.6E+04	--	1.3E+03	1.6E+03	--	5.8E+04	5.7E+04
23	6.5E+04	6.7E+04	6.6E+04	6.8E+04	6.7E+04	6.6E+04	6.3E+04	1.7E+03	1.6E+03	6.9E+06	5.8E+04	5.8E+04
24	6.5E+04	6.8E+04	6.6E+04	6.9E+04	6.7E+04	5.2E+05	6.3E+04	1.6E+03	1.6E+03	2.3E+06	5.7E+04	5.9E+04
25	6.5E+04	6.8E+04	6.7E+04	6.8E+04	6.6E+04	6.5E+04	6.2E+04	1.7E+03	1.7E+03	--	5.6E+04	5.9E+04
26	6.6E+04	6.9E+04	8.6E+04	6.7E+04	6.6E+04	6.5E+04	6.2E+04	1.5E+03	1.7E+03	7.6E+05	5.7E+04	5.9E+04
27	6.6E+04	6.9E+04	6.5E+04	5.7E+04	6.6E+04	6.4E+04	6.5E+04	1.3E+03	1.5E+03	1.8E+05	5.6E+04	5.9E+04
28	6.6E+04	1.3E+06	6.5E+04	5.7E+04	6.5E+04	6.4E+04	6.3E+04	1.4E+03	1.6E+03	7.4E+04	5.7E+04	5.9E+04
29	6.6E+04		6.6E+04	6.9E+04	6.4E+04	6.5E+04	7.1E+05	1.7E+03	1.7E+03	1.3E+05	5.7E+04	5.8E+04
30	6.7E+04		6.7E+04	6.7E+04	6.4E+04	6.5E+04	6.1E+04	1.7E+03	1.7E+03	6.8E+04	5.8E+04	5.8E+04
31	6.7E+04		6.8E+04		6.4E+04		6.1E+04	1.7E+03		4.2E+04		--

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 Daily Proton Fluences - 1988



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.8E+06	8.2E+06	4.1E+06	4.9E+05	2.6E+05	5.8E+05	4.8E+06	1.6E+06	2.6E+06	9.7E+05	9.7E+05	9.1E+05
2	3.2E+07	4.2E+06	4.8E+06	3.1E+06	2.8E+05	1.2E+06	5.1E+06	1.2E+06	1.4E+06	1.0E+06	3.7E+06	3.8E+06
3	2.5E+07	3.3E+06	1.1E+07	3.1E+07	2.8E+05	2.2E+06	1.6E+06	1.6E+06	1.4E+06	1.1E+06	2.3E+07	2.8E+06
4	1.4E+08	4.9E+06	3.6E+06	2.9E+07	3.2E+05	3.3E+06	5.9E+05	3.8E+05	7.0E+05	6.3E+06	1.7E+06	2.4E+06
5	1.1E+08	1.1E+07	8.7E+05	3.0E+06	9.5E+06	3.7E+06	2.2E+06	9.5E+05	7.6E+05	1.1E+08	2.2E+06	1.4E+06
6	5.9E+07	3.9E+06	2.3E+06	4.9E+07	5.5E+07	4.5E+05	8.6E+05	3.8E+05	3.7E+06	4.8E+07	4.4E+05	8.8E+05
7	1.8E+07	4.6E+06	3.0E+06	2.1E+06	8.6E+06	5.1E+05	4.0E+05	5.4E+05	1.6E+06	3.4E+06	1.3E+06	1.2E+06
8	5.1E+07	9.4E+05	1.9E+06	2.0E+06	7.2E+06	3.0E+05	2.0E+06	9.6E+05	4.0E+06	2.2E+06	1.1E+06	2.9E+06
9	5.1E+06	4.7E+06	5.4E+06	2.0E+06	4.1E+06	2.7E+05	5.5E+05	1.2E+06	9.6E+05	1.8E+06	3.6E+06	3.9E+06
10	9.4E+06	8.0E+05	3.9E+06	1.7E+06	5.0E+06	2.2E+05	1.0E+06	2.9E+05	6.5E+06	1.7E+06	5.0E+06	1.5E+06
11	2.1E+07	3.9E+05	1.0E+07	2.3E+06	2.7E+06	2.4E+05	8.3E+05	4.5E+05	1.2E+07	1.9E+06	2.1E+07	4.0E+06
12	1.2E+08	2.5E+06	2.7E+06	8.2E+06	5.6E+06	2.5E+05	1.6E+06	1.9E+07	2.1E+06	1.5E+06	3.4E+06	5.8E+06
13	--	6.0E+06	4.3E+06	2.6E+06	9.0E+06	3.3E+05	6.2E+05	7.0E+05	8.4E+05	1.9E+06	2.1E+06	8.5E+06
14	4.7E+07	1.8E+06	6.0E+06	2.2E+06	8.8E+06	3.1E+05	7.5E+05	1.2E+06	3.5E+06	1.5E+06	7.2E+06	3.1E+06
15	7.2E+07	1.7E+06	2.2E+06	4.0E+06	1.3E+07	8.0E+05	1.1E+06	1.2E+07	1.3E+06	2.0E+06	4.6E+06	3.0E+06
16	1.3E+07	7.2E+06	3.5E+06	2.4E+06	2.5E+06	1.1E+06	1.3E+06	8.3E+05	3.8E+05	1.2E+06	6.2E+06	1.7E+07
17	9.0E+06	9.7E+05	7.6E+06	4.4E+06	7.9E+06	5.5E+05	7.0E+05	1.9E+06	6.5E+05	1.8E+06	1.2E+06	5.3E+07
18	2.9E+07	9.8E+06	5.8E+06	3.7E+05	2.4E+06	4.9E+05	1.3E+06	1.9E+06	6.8E+05	1.8E+06	1.4E+06	1.0E+08
19	8.3E+06	1.4E+06	3.1E+06	2.6E+06	4.4E+05	1.9E+06	7.2E+05	3.8E+06	8.2E+05	2.2E+06	1.1E+06	3.1E+07
20	1.1E+07	8.7E+06	4.5E+06	3.4E+06	5.1E+05	1.7E+06	2.0E+06	2.8E+06	1.3E+06	2.3E+06	6.4E+06	4.8E+06
21	6.1E+06	5.3E+06	7.5E+06	1.1E+06	4.0E+06	6.1E+05	5.0E+07	7.6E+05	2.3E+06	1.7E+06	6.0E+06	3.4E+06
22	4.9E+06	3.3E+08	4.6E+06	9.4E+05	1.4E+06	5.9E+05	8.1E+06	9.7E+05	5.4E+06	5.8E+06	1.3E+06	1.2E+06
23	1.1E+07	1.4E+07	5.6E+06	3.1E+05	1.9E+06	4.5E+05	1.6E+06	6.4E+05	3.3E+05	1.1E+07	1.2E+06	1.2E+06
24	1.1E+07	2.6E+06	4.1E+06	8.4E+05	1.6E+06	5.8E+05	1.6E+06	1.0E+06	4.3E+05	1.4E+07	2.5E+06	7.9E+05
25	1.1E+07	1.3E+06	3.6E+06	3.6E+05	1.3E+06	--	2.0E+06	2.7E+07	3.3E+06	7.3E+06	2.4E+06	1.7E+06
26	1.7E+07	1.7E+06	8.0E+06	9.4E+05	7.1E+05	4.2E+05	5.6E+06	1.1E+08	2.6E+06	9.3E+06	6.4E+06	7.7E+06
27	5.4E+06	4.5E+05	1.5E+06	9.1E+05	5.8E+05	4.8E+05	1.3E+07	8.5E+07	2.1E+06	2.8E+06	2.1E+06	2.0E+07
28	2.8E+06	7.3E+05	3.3E+06	8.2E+05	9.0E+05	7.7E+05	1.8E+07	3.5E+07	3.6E+06	7.9E+05	2.9E+06	1.9E+06
29	2.0E+06	2.1E+06	2.1E+06	4.1E+05	6.6E+05	1.9E+06	6.9E+06	2.2E+07	3.9E+06	1.0E+06	6.7E+05	4.6E+06
30	3.7E+06		7.0E+06	4.8E+05	1.3E+06	1.1E+07	3.9E+06	1.3E+07	6.1E+06	7.9E+06	3.5E+06	2.9E+06
31	5.3E+06		1.4E+06		6.4E+05		2.6E+06	1.1E+07		7.0E+06		2.3E+06

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GOES7 >10 MeV Proton Fluence - 1988

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.8E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	--	7.7E+06	7.6E+03	7.2E+07	1.7E+05	1.6E+05
2	1.8E+05	1.9E+05	1.9E+07	6.7E+05	2.0E+05	1.9E+05	2.0E+05	4.3E+06	8.1E+03	4.0E+06	1.9E+05	1.6E+05
3	1.0E+05	1.9E+05	2.1E+05	2.1E+05	1.8E+05	1.9E+05	1.9E+05	7.3E+05	7.5E+03	2.6E+06	1.7E+05	1.6E+05
4	1.9E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	1.9E+05	1.9E+05	2.2E+05	7.6E+03	7.1E+05	1.6E+05	1.6E+05
5	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	1.9E+05	1.2E+05	9.4E+03	5.3E+05	1.7E+05	1.6E+05
6	1.9E+05	1.9E+05	5.9E+05	--	2.0E+05	2.0E+05	1.9E+05	7.7E+04	8.4E+03	9.5E+05	1.7E+05	1.6E+05
7	1.9E+05	1.9E+05	2.0E+05	--	2.0E+05	1.9E+05	1.9E+05	3.5E+04	8.7E+03	5.4E+05	1.7E+05	1.6E+05
8	1.9E+05	1.9E+05	2.0E+05	--	2.0E+05	1.9E+05	1.9E+05	1.6E+04	8.6E+03	5.0E+05	2.4E+06	1.7E+05
9	1.9E+05	1.9E+05	2.0E+05	--	2.1E+05	2.0E+05	1.9E+05	1.2E+04	8.9E+03	4.4E+05	4.2E+05	1.6E+05
10	1.9E+05	1.9E+05	2.0E+05	3.7E+05	2.0E+05	1.9E+05	1.9E+05	8.8E+03	8.7E+03	3.3E+05	2.1E+05	1.7E+05
11	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	1.1E+04	8.4E+03	3.2E+05	1.7E+05	1.6E+05
12	1.9E+05	2.0E+05	6.3E+05	2.1E+05	2.0E+05	2.0E+05	1.9E+05	4.3E+04	7.2E+03	--	1.7E+05	1.6E+05
13	1.9E+05	2.0E+05	2.1E+05	2.1E+05	2.0E+05	2.0E+05	1.9E+05	1.8E+05	7.6E+03	2.0E+05	1.7E+05	1.7E+05
14	1.9E+05	2.0E+05	2.1E+05	3.6E+05	2.0E+05	2.0E+05	1.9E+05	1.1E+05	7.9E+03	1.7E+05	1.7E+05	1.7E+05
15	1.9E+05	2.0E+05	3.5E+05	2.1E+05	2.0E+05	2.0E+05	2.0E+05	5.0E+04	8.8E+03	1.5E+05	1.6E+05	1.7E+05
16	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	2.4E+04	8.1E+03	1.5E+05	1.6E+05	1.7E+05
17	1.9E+05	2.0E+05	1.7E+06	2.1E+05	2.1E+05	2.0E+05	1.9E+05	1.0E+04	8.9E+03	1.5E+05	1.7E+05	1.6E+05
18	1.9E+05	2.0E+05	2.1E+05	2.1E+05	2.1E+05	2.0E+05	1.9E+05	7.0E+03	8.3E+03	1.2E+05	1.7E+05	1.6E+05
19	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	5.9E+03	8.2E+03	5.4E+07	1.6E+05	1.7E+05
20	1.9E+05	2.0E+05	2.1E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	6.3E+03	8.0E+03	1.4E+09	1.7E+05	1.6E+05
21	1.9E+05	2.0E+05	2.4E+06	2.1E+05	2.0E+05	2.0E+05	1.9E+05	6.0E+03	7.9E+03	2.1E+08	1.7E+05	1.6E+05
22	4.2E+05	2.0E+05	3.7E+05	2.0E+05	2.1E+05	2.0E+05	--	6.4E+03	6.8E+03	--	1.7E+05	1.7E+05
23	1.9E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.9E+05	7.1E+03	8.0E+03	4.2E+08	1.7E+05	1.7E+05
24	1.9E+05	2.0E+05	2.0E+05	3.4E+05	2.0E+05	6.4E+05	1.9E+05	7.4E+03	8.9E+03	1.4E+08	1.6E+05	1.7E+05
25	1.9E+05	2.0E+05	2.0E+05	2.1E+05	2.0E+05	1.9E+05	1.8E+05	1.9E+04	7.4E+03	--	1.6E+05	1.7E+05
26	1.9E+05	2.0E+05	2.3E+05	2.1E+05	2.0E+05	1.9E+05	1.8E+05	5.7E+04	7.4E+03	5.2E+07	1.6E+05	1.7E+05
27	1.9E+05	2.0E+05	2.1E+05	1.9E+05	2.0E+05	1.9E+05	1.9E+05	1.3E+04	7.0E+03	1.0E+07	2.9E+05	1.7E+05
28	2.0E+05	1.4E+06	2.0E+05	1.9E+05	1.9E+05	2.5E+05	2.1E+05	7.5E+03	7.8E+03	2.7E+06	1.6E+05	1.7E+05
29	1.9E+05		2.1E+05	2.1E+05	2.1E+05	2.0E+05	8.3E+05	7.7E+03	7.4E+03	2.0E+06	1.6E+05	1.7E+05
30	1.9E+05		2.0E+05	2.0E+05	2.1E+05	1.9E+05	1.9E+05	8.2E+03	7.7E+03	8.1E+05	1.7E+05	3.2E+05
31	2.0E+05		2.0E+05		2.0E+05		1.9E+05	8.1E+03		5.1E+05		--

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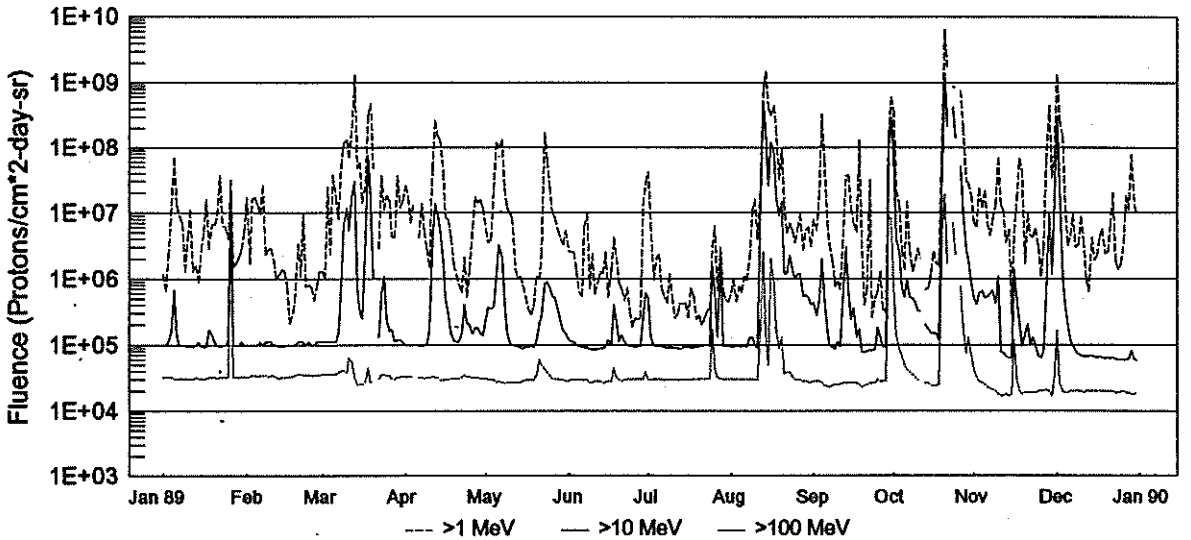
GOES7 >100 MeV Proton Fluence - 1988

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.4E+04	6.7E+04	6.9E+04	6.7E+04	6.7E+04	6.4E+04	--	2.1E+03	1.8E+03	7.9E+05	5.9E+04	5.7E+04
2	6.4E+04	6.7E+04	6.8E+04	5.3E+05	6.6E+04	6.5E+04	6.4E+04	1.8E+03	1.9E+03	1.4E+05	6.0E+04	5.6E+04
3	6.4E+04	6.7E+04	6.9E+04	6.8E+04	6.6E+04	6.5E+04	6.5E+04	1.5E+03	2.0E+03	8.7E+04	6.1E+04	5.6E+04
4	6.4E+04	6.8E+04	6.9E+04	6.7E+04	6.6E+04	6.5E+04	6.4E+04	1.3E+03	2.0E+03	6.6E+04	5.6E+04	5.6E+04
5	6.5E+04	6.8E+04	6.8E+04	7.0E+04	6.6E+04	6.6E+04	6.4E+04	1.5E+03	2.5E+03	5.1E+04	5.7E+04	5.6E+04
6	6.5E+04	6.7E+04	4.5E+05	--	6.7E+04	6.5E+04	6.4E+04	1.4E+03	2.1E+03	4.3E+04	5.7E+04	5.6E+04
7	6.4E+04	6.7E+04	6.8E+04	--	6.7E+04	6.5E+04	6.4E+04	1.4E+03	2.2E+03	3.9E+04	5.7E+04	5.7E+04
8	6.5E+04	6.7E+04	6.7E+04	--	6.7E+04	6.5E+04	6.4E+04	1.3E+03	2.3E+03	3.5E+04	6.0E+04	5.7E+04
9	6.5E+04	6.8E+04	6.8E+04	--	6.8E+04	6.6E+04	6.3E+04	1.4E+03	2.1E+03	3.2E+04	5.8E+04	5.7E+04
10	6.4E+04	6.7E+04	6.7E+04	2.3E+05	6.7E+04	6.5E+04	6.3E+04	1.4E+03	2.3E+03	2.9E+04	5.9E+04	5.7E+04
11	6.5E+04	6.8E+04	6.8E+04	6.8E+04	6.7E+04	6.6E+04	6.3E+04	1.6E+03	1.9E+03	2.8E+04	5.7E+04	5.7E+04
12	6.5E+04	6.7E+04	4.9E+05	6.8E+04	6.8E+04	6.7E+04	6.4E+04	1.7E+03	1.6E+03	--	5.7E+04	5.7E+04
13	6.5E+04	6.8E+04	6.8E+04	6.7E+04	6.7E+04	6.6E+04	6.4E+04	1.6E+03	1.8E+03	2.6E+04	5.7E+04	5.7E+04
14	6.5E+04	6.8E+04	6.8E+04	2.2E+05	6.7E+04	6.7E+04	6.4E+04	1.8E+03	1.9E+03	2.6E+04	5.7E+04	5.8E+04
15	6.5E+04	6.8E+04	6.9E+04	6.8E+04	6.8E+04	6.6E+04	6.3E+04	1.4E+03	1.7E+03	2.4E+04	5.7E+04	5.8E+04
16	6.5E+04	6.8E+04	6.9E+04	6.8E+04	6.8E+04	6.6E+04	6.4E+04	1.2E+03	1.7E+03	2.4E+04	5.7E+04	5.7E+04
17	6.5E+04	6.7E+04	1.0E+05	6.8E+04	6.8E+04	6.7E+04	6.3E+04	1.5E+03	1.8E+03	2.4E+04	5.8E+04	5.7E+04
18	6.5E+04	6.7E+04	6.8E+04	6.8E+04	6.8E+04	6.6E+04	6.2E+04	1.2E+03	1.9E+03	2.5E+04	5.9E+04	5.7E+04
19	6.5E+04	6.8E+04	6.7E+04	6.8E+04	6.9E+04	6.5E+04	6.3E+04	1.2E+03	1.7E+03	4.8E+06	5.8E+04	5.8E+04
20	6.5E+04	6.7E+04	7.2E+04	6.7E+04	6.8E+04	6.5E+04	6.3E+04	1.3E+03	1.8E+03	1.9E+07	5.8E+04	5.8E+04
21	6.5E+04	6.7E+04	8.6E+04	6.7E+04	6.8E+04	6.5E+04	6.3E+04	1.3E+03	1.7E+03	1.7E+06	5.8E+04	5.9E+04
22	6.5E+04	6.8E+04	2.3E+05	6.8E+04	6.8E+04	6.6E+04	--	1.3E+03	1.6E+03	--	5.8E+04	5.7E+04
23	6.5E+04	6.7E+04	6.6E+04	6.8E+04	6.7E+04	6.6E+04	6.3E+04	1.7E+03	1.6E+03	6.9E+06	5.8E+04	5.8E+04
24	6.5E+04	6.8E+04	6.6E+04	6.9E+04	6.7E+04	5.2E+05	6.3E+04	1.6E+03	1.6E+03	2.3E+06	5.7E+04	5.9E+04
25	6.5E+04	6.8E+04	6.7E+04	6.8E+04	6.6E+04	6.5E+04	6.2E+04	1.7E+03	1.7E+03	--	5.6E+04	5.9E+04
26	6.6E+04	6.9E+04	8.6E+04	6.7E+04	6.6E+04	6.5E+04	6.2E+04	1.5E+03	1.7E+03	7.6E+05	5.7E+04	5.9E+04
27	6.6E+04	6.9E+04	6.5E+04	5.7E+04	6.6E+04	6.4E+04	6.5E+04	1.3E+03	1.5E+03	1.8E+05	5.6E+04	5.9E+04
28	6.6E+04	1.3E+06	6.5E+04	5.7E+04	6.5E+04	6.4E+04	6.3E+04	1.4E+03	1.6E+03	7.4E+04	5.7E+04	5.9E+04
29	6.6E+04		6.6E+04	6.9E+04	6.4E+04	6.5E+04	7.1E+05	1.7E+03	1.7E+03	1.3E+05	5.7E+04	5.8E+04
30	6.7E+04		6.7E+04	6.7E+04	6.4E+04	6.5E+04	6.1E+04	1.7E+03	1.7E+03	6.8E+04	5.8E+04	5.8E+04
31	6.7E+04		6.8E+04		6.4E+04		6.1E+04	1.7E+03		4.2E+04		--

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 Daily Proton Fluences - 1989



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.2E+06	1.7E+07	1.3E+06	2.6E+07	5.5E+06	2.6E+06	4.2E+07	6.1E+05	7.9E+06	3.8E+08	6.2E+06	1.3E+09
2	6.5E+05	1.7E+06	1.0E+06	1.7E+07	3.5E+06	2.5E+06	6.7E+06	1.0E+06	5.4E+06	2.2E+07	2.3E+07	2.7E+08
3	2.2E+06	1.6E+07	2.4E+07	7.0E+06	3.9E+06	2.5E+06	9.5E+05	4.5E+05	1.7E+07	1.3E+07	1.2E+07	1.5E+08
4	1.3E+07	1.7E+07	2.3E+06	1.4E+07	2.2E+07	1.3E+06	2.1E+06	7.6E+05	3.3E+08	2.7E+06	2.1E+07	1.8E+07
5	6.8E+07	1.3E+07	3.8E+07	--	1.2E+08	6.1E+05	2.3E+06	6.2E+05	6.4E+07	1.4E+06	7.1E+06	3.2E+06
6	1.3E+07	9.6E+06	1.7E+07	4.2E+06	1.0E+08	5.5E+05	7.1E+05	1.1E+06	7.0E+06	1.5E+07	4.5E+06	4.5E+06
7	9.1E+06	2.6E+07	8.0E+06	1.4E+07	1.3E+08	6.0E+06	5.4E+05	9.6E+05	3.4E+06	2.7E+06	7.6E+06	9.3E+06
8	6.8E+06	2.3E+06	5.1E+07	5.4E+06	2.3E+07	9.7E+06	4.3E+05	2.1E+06	1.9E+06	1.3E+06	1.3E+07	3.0E+06
9	1.3E+06	2.8E+06	1.2E+08	2.9E+06	1.2E+07	7.0E+05	1.2E+06	1.1E+07	7.6E+05	1.8E+06	6.9E+07	3.3E+06
10	4.3E+06	2.9E+06	1.3E+08	1.5E+06	1.0E+07	2.4E+06	5.3E+05	1.6E+07	9.1E+05	2.9E+06	1.3E+07	8.8E+06
11	1.1E+07	1.9E+06	7.0E+07	4.7E+07	8.4E+06	5.8E+05	2.5E+05	3.9E+06	6.9E+05	2.0E+06	1.1E+07	3.8E+06
12	1.3E+06	1.0E+06	2.1E+08	2.6E+08	1.4E+06	9.4E+05	3.0E+05	2.4E+07	3.0E+06	--	3.5E+06	1.0E+06
13	1.6E+06	1.2E+06	1.3E+09	1.5E+08	1.0E+06	1.3E+06	4.2E+05	7.3E+08	3.6E+07	6.8E+05	5.6E+06	6.4E+05
14	8.9E+05	1.4E+06	4.7E+07	1.3E+08	1.1E+06	1.2E+06	4.1E+05	1.5E+09	3.7E+07	7.3E+05	2.9E+05	4.2E+06
15	2.7E+06	1.3E+06	5.9E+07	4.0E+07	7.9E+05	2.5E+06	4.3E+05	4.3E+08	1.2E+07	1.3E+06	5.1E+06	1.9E+06
16	5.2E+06	7.5E+05	1.4E+07	8.8E+06	5.4E+05	5.2E+05	2.6E+05	3.2E+08	6.9E+06	2.6E+06	1.6E+07	2.2E+06
17	1.6E+07	2.1E+05	2.8E+07	7.8E+06	3.3E+05	1.4E+06	7.1E+05	4.4E+08	5.1E+06	1.7E+06	6.7E+07	4.3E+06
18	2.8E+06	3.1E+05	3.2E+08	4.2E+06	2.9E+05	4.2E+06	5.5E+05	2.0E+08	1.3E+08	1.6E+06	4.4E+07	5.6E+06
19	6.7E+06	4.8E+05	4.8E+08	1.7E+06	3.9E+05	2.1E+06	2.4E+05	3.2E+07	3.7E+06	1.3E+08	1.7E+06	2.4E+06
20	6.6E+06	3.4E+06	4.6E+07	1.2E+06	1.1E+06	8.8E+05	2.8E+05	1.0E+08	3.9E+05	6.4E+09	9.6E+06	2.5E+06
21	9.1E+06	1.1E+06	--	8.3E+05	9.7E+05	7.2E+05	2.0E+05	1.4E+07	6.3E+05	1.6E+09	4.5E+06	6.4E+06
22	3.7E+07	1.0E+07	2.9E+06	6.3E+05	2.3E+06	4.7E+05	2.4E+05	4.9E+06	3.2E+07	--	4.2E+06	2.0E+07
23	6.4E+06	7.7E+05	3.7E+07	2.1E+06	1.7E+08	7.3E+05	3.3E+05	6.9E+06	2.6E+05	8.6E+08	5.7E+06	1.9E+06
24	6.0E+06	7.9E+05	1.1E+07	5.3E+05	6.1E+07	3.3E+05	3.5E+05	5.3E+06	5.1E+05	8.8E+08	3.0E+06	1.4E+06
25	3.9E+06	7.4E+05	1.8E+07	1.4E+06	2.4E+07	1.9E+05	3.0E+06	3.5E+06	6.4E+05	--	1.1E+06	1.7E+06
26	3.2E+07	4.7E+05	1.5E+07	6.0E+06	9.9E+06	2.6E+05	6.4E+06	5.5E+06	1.3E+06	7.5E+08	2.9E+06	3.6E+06
27	1.5E+06	7.4E+05	4.3E+06	1.7E+07	8.6E+06	2.4E+05	6.5E+05	9.6E+06	3.5E+05	2.0E+08	6.3E+07	1.8E+07
28	1.7E+06	1.3E+06	4.2E+06	1.4E+07	5.5E+06	2.6E+05	3.0E+06	2.7E+06	3.0E+05	3.0E+07	4.5E+08	1.1E+07
29	2.1E+06		3.7E+07	1.6E+07	4.0E+06	1.3E+07	6.7E+05	5.3E+06	1.6E+08	2.9E+07	3.4E+07	7.8E+07
30	2.8E+06		1.2E+07	1.2E+07	3.3E+06	2.8E+07	4.8E+05	6.1E+06	6.1E+08	1.8E+07	8.4E+07	1.3E+07
31	5.2E+06		1.5E+07		5.3E+06		4.5E+05	3.1E+06		6.9E+06		9.2E+06

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GOES7 >10 MeV Proton Fluence - 1989

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.0E+05	1.0E+05	1.1E+05	1.0E+05	2.5E+05	1.2E+05	5.2E+05	9.4E+04	4.4E+05	7.2E+07	4.1E+05	3.1E+08
2	1.0E+05	1.0E+05	1.1E+05	1.0E+05	3.7E+05	1.1E+05	1.3E+05	9.5E+04	2.8E+05	4.0E+06	6.1E+05	2.5E+07
3	1.1E+05	1.0E+05	1.1E+05	1.0E+05	3.5E+05	1.1E+05	9.8E+04	9.6E+04	4.6E+05	2.6E+06	6.5E+05	1.0E+06
4	1.6E+05	1.0E+05	1.1E+05	1.0E+05	3.8E+05	1.0E+05	9.7E+04	9.5E+04	2.0E+06	7.1E+05	5.2E+05	4.6E+05
5	6.9E+05	1.0E+05	1.1E+05	--	1.1E+06	9.5E+04	9.7E+04	9.3E+04	5.3E+05	5.3E+05	5.3E+05	2.0E+05
6	1.4E+05	1.1E+05	1.1E+05	9.8E+04	3.2E+06	9.3E+04	9.6E+04	9.5E+04	1.6E+05	9.5E+05	6.0E+05	1.2E+05
7	1.0E+05	1.0E+05	1.5E+05	9.7E+04	2.2E+06	9.1E+04	9.1E+04	9.4E+04	1.0E+05	5.4E+05	6.7E+05	1.0E+05
8	1.0E+05	1.1E+05	8.1E+05	9.9E+04	4.6E+05	9.1E+04	9.0E+04	1.3E+05	9.1E+04	5.0E+05	4.2E+05	8.1E+04
9	9.8E+04	1.1E+05	6.6E+06	1.0E+05	1.5E+05	8.5E+04	9.1E+04	1.3E+05	8.7E+04	4.4E+05	1.1E+06	7.2E+04
10	9.6E+04	1.1E+05	1.2E+07	1.7E+05	1.1E+05	8.5E+04	8.9E+04	1.0E+05	1.1E+05	3.3E+05	7.8E+04	6.9E+04
11	9.7E+04	1.0E+05	5.3E+06	3.9E+06	1.0E+05	8.5E+04	9.0E+04	8.9E+04	9.2E+04	3.2E+05	7.6E+04	6.6E+04
12	9.2E+04	1.0E+05	1.9E+07	1.4E+07	9.7E+04	8.6E+04	8.8E+04	1.6E+07	4.7E+05	--	6.7E+04	6.6E+04
13	1.0E+05	9.6E+04	3.0E+07	9.6E+06	9.4E+04	8.8E+04	8.7E+04	4.9E+08	3.0E+06	2.0E+05	6.3E+04	6.8E+04
14	1.1E+05	9.6E+04	7.2E+05	5.4E+06	9.1E+04	8.7E+04	9.0E+04	1.7E+08	6.4E+05	1.7E+05	6.3E+04	6.8E+04
15	9.6E+04	9.5E+04	3.2E+05	1.7E+06	8.7E+04	9.5E+04	9.3E+04	2.6E+07	2.4E+05	1.5E+05	1.4E+06	6.5E+04
16	9.2E+04	9.9E+04	2.5E+05	5.3E+05	9.2E+04	1.2E+05	9.3E+04	1.2E+08	3.6E+05	1.5E+05	4.8E+05	6.3E+04
17	9.3E+04	9.9E+04	4.1E+06	2.8E+05	9.4E+04	1.0E+05	8.9E+04	8.2E+07	1.3E+05	1.5E+05	2.2E+05	6.7E+04
18	1.7E+05	9.8E+04	7.7E+07	1.5E+05	9.6E+04	4.1E+05	9.1E+04	1.8E+07	1.7E+05	1.2E+05	9.5E+04	6.3E+04
19	1.4E+05	1.0E+05	1.5E+07	1.2E+05	9.3E+04	2.3E+05	9.2E+04	8.7E+06	7.8E+04	5.4E+07	1.5E+05	6.2E+04
20	1.1E+05	1.1E+05	9.8E+05	1.1E+05	1.1E+05	1.1E+05	9.2E+04	1.5E+07	7.7E+04	1.4E+09	2.0E+05	6.4E+04
21	9.7E+04	1.1E+05	--	1.1E+05	2.2E+05	1.4E+05	9.6E+04	1.2E+06	8.0E+04	2.1E+08	1.0E+05	6.2E+04
22	9.6E+04	1.1E+05	1.3E+05	1.5E+05	2.7E+05	1.1E+05	9.9E+04	1.2E+06	8.3E+04	--	1.3E+05	6.3E+04
23	9.7E+04	1.0E+05	5.9E+05	4.1E+05	8.4E+05	9.7E+04	1.0E+05	2.2E+06	8.2E+04	4.2E+08	9.9E+04	6.1E+04
24	9.9E+04	1.1E+05	1.1E+06	2.1E+05	9.0E+05	9.7E+04	9.5E+04	1.4E+06	8.6E+04	1.4E+08	6.9E+04	6.0E+04
25	1.1E+05	1.0E+05	2.4E+05	2.0E+05	7.4E+05	9.5E+04	1.6E+06	9.8E+05	1.8E+05	--	6.3E+04	6.0E+04
26	2.1E+07	1.0E+05	1.6E+05	1.5E+05	5.5E+05	9.4E+04	6.5E+05	1.2E+06	1.3E+05	5.2E+07	8.0E+04	5.9E+04
27	9.8E+04	1.1E+05	1.7E+05	1.8E+05	5.1E+05	9.6E+04	1.3E+05	1.2E+06	9.3E+04	1.0E+07	6.2E+05	6.0E+04
28	9.7E+04	1.1E+05	1.1E+05	1.8E+05	3.4E+05	9.6E+04	2.1E+06	5.4E+05	9.5E+04	2.7E+06	1.0E+07	6.1E+04
29	1.0E+05		1.2E+05	1.5E+05	2.2E+05	2.6E+05	9.6E+04	5.7E+05	1.0E+08	2.0E+06	1.2E+06	8.2E+04
30	1.1E+05		1.2E+05	1.4E+05	1.6E+05	6.1E+05	9.6E+04	5.2E+05	3.0E+08	8.1E+05	1.5E+07	6.0E+04
31	1.0E+05		1.1E+05		1.5E+05		9.8E+04	4.0E+05		5.1E+05		5.8E+04

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GOES7 >100 MeV Proton Fluence - 1989

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.2E+04	3.2E+04	3.6E+04	3.3E+04	3.1E+04	2.8E+04	2.9E+04	3.0E+04	2.8E+04	7.9E+05	3.3E+04	1.6E+05
2	3.2E+04	3.3E+04	3.6E+04	3.3E+04	3.0E+04	2.9E+04	2.9E+04	3.0E+04	2.8E+04	1.4E+05	2.8E+04	2.6E+04
3	3.2E+04	3.4E+04	3.6E+04	3.3E+04	3.0E+04	2.9E+04	3.0E+04	3.0E+04	2.8E+04	8.7E+04	2.6E+04	2.0E+04
4	3.2E+04	3.4E+04	3.6E+04	3.2E+04	2.9E+04	2.9E+04	3.0E+04	3.0E+04	2.7E+04	6.6E+04	2.5E+04	1.9E+04
5	3.1E+04	3.3E+04	3.6E+04	--	2.7E+04	2.9E+04	3.0E+04	3.0E+04	2.4E+04	5.1E+04	2.3E+04	1.9E+04
6	3.1E+04	3.4E+04	3.6E+04	3.2E+04	2.8E+04	2.9E+04	3.0E+04	3.0E+04	2.4E+04	4.3E+04	2.2E+04	2.0E+04
7	3.1E+04	3.4E+04	3.8E+04	3.2E+04	2.7E+04	2.9E+04	2.9E+04	3.0E+04	2.3E+04	3.9E+04	2.1E+04	2.0E+04
8	3.1E+04	3.4E+04	4.0E+04	3.1E+04	2.6E+04	2.9E+04	3.0E+04	3.0E+04	2.4E+04	3.5E+04	2.0E+04	2.0E+04
9	3.1E+04	3.3E+04	4.2E+04	3.2E+04	2.7E+04	2.7E+04	2.9E+04	3.0E+04	2.5E+04	3.2E+04	1.8E+04	2.0E+04
10	3.1E+04	3.4E+04	3.8E+04	3.2E+04	2.7E+04	2.7E+04	2.9E+04	2.9E+04	2.5E+04	2.9E+04	1.7E+04	2.0E+04
11	3.1E+04	3.4E+04	6.3E+04	3.3E+04	2.7E+04	2.8E+04	2.9E+04	2.9E+04	2.5E+04	2.8E+04	1.7E+04	1.9E+04
12	3.0E+04	3.2E+04	5.4E+04	3.2E+04	2.7E+04	2.8E+04	2.9E+04	1.8E+05	2.6E+04	--	1.8E+04	2.0E+04
13	3.2E+04	3.1E+04	3.3E+04	3.2E+04	2.7E+04	2.8E+04	2.9E+04	2.5E+06	2.6E+04	2.6E+04	1.7E+04	2.0E+04
14	3.1E+04	3.2E+04	2.5E+04	2.9E+04	2.7E+04	2.6E+04	2.9E+04	1.5E+05	2.6E+04	2.6E+04	1.8E+04	2.0E+04
15	3.1E+04	3.2E+04	2.5E+04	2.9E+04	2.8E+04	2.7E+04	2.9E+04	5.0E+04	2.6E+04	2.4E+04	1.2E+05	2.0E+04
16	3.0E+04	3.3E+04	2.5E+04	3.0E+04	2.9E+04	2.8E+04	2.9E+04	2.0E+06	2.7E+04	2.4E+04	3.0E+04	2.0E+04
17	3.1E+04	3.3E+04	2.8E+04	3.0E+04	2.9E+04	2.8E+04	2.9E+04	8.2E+05	2.6E+04	2.4E+04	2.0E+04	2.0E+04
18	3.2E+04	3.3E+04	4.5E+04	3.1E+04	2.9E+04	4.5E+04	3.0E+04	1.8E+05	2.5E+04	2.5E+04	1.8E+04	2.0E+04
19	3.2E+04	3.5E+04	2.7E+04	3.1E+04	2.9E+04	3.2E+04	3.0E+04	8.9E+04	2.3E+04	4.8E+06	1.9E+04	2.0E+04
20	3.2E+04	3.6E+04	2.8E+04	3.1E+04	3.4E+04	3.0E+04	3.0E+04	1.3E+05	2.4E+04	1.9E+07	1.9E+04	2.0E+04
21	3.1E+04	3.6E+04	--	3.1E+04	5.9E+04	2.8E+04	3.1E+04	3.7E+04	2.5E+04	1.7E+06	1.9E+04	2.0E+04
22	3.2E+04	3.5E+04	3.1E+04	3.2E+04	5.0E+04	2.9E+04	3.0E+04	3.8E+04	2.6E+04	--	1.9E+04	2.0E+04
23	3.2E+04	3.5E+04	3.5E+04	3.5E+04	4.3E+04	3.0E+04	3.1E+04	3.8E+04	2.6E+04	6.9E+06	1.9E+04	1.9E+04
24	3.2E+04	3.5E+04	3.5E+04	3.3E+04	3.8E+04	3.0E+04	3.0E+04	3.3E+04	2.6E+04	2.3E+06	2.0E+04	1.9E+04
25	3.3E+04	3.4E+04	3.4E+04	3.3E+04	3.4E+04	3.0E+04	1.7E+05	3.0E+04	3.0E+04	--	2.0E+04	2.0E+04
26	9.9E+06	3.4E+04	3.4E+04	3.2E+04	3.1E+04	3.0E+04	4.4E+04	2.9E+04	2.8E+04	7.6E+05	2.0E+04	2.0E+04
27	3.2E+04	3.5E+04	3.1E+04	3.2E+04	3.0E+04	3.0E+04	3.2E+04	2.9E+04	2.8E+04	1.8E+05	2.1E+04	1.9E+04
28	3.2E+04	3.5E+04	3.0E+04	3.2E+04	3.0E+04	3.0E+04	3.1E+04	2.8E+04	2.8E+04	7.4E+04	2.0E+04	1.9E+04
29	3.2E+04		3.2E+04	3.1E+04	2.9E+04	3.0E+04	3.0E+04	2.8E+04	9.1E+06	1.3E+05	1.7E+04	1.8E+04
30	3.3E+04		3.3E+04	3.1E+04	2.9E+04	3.8E+04	3.0E+04	2.7E+04	8.1E+06	6.8E+04	3.2E+04	1.8E+04
31	3.3E+04		3.3E+04		2.8E+04		3.0E+04	2.7E+04		4.2E+04		1.9E+04

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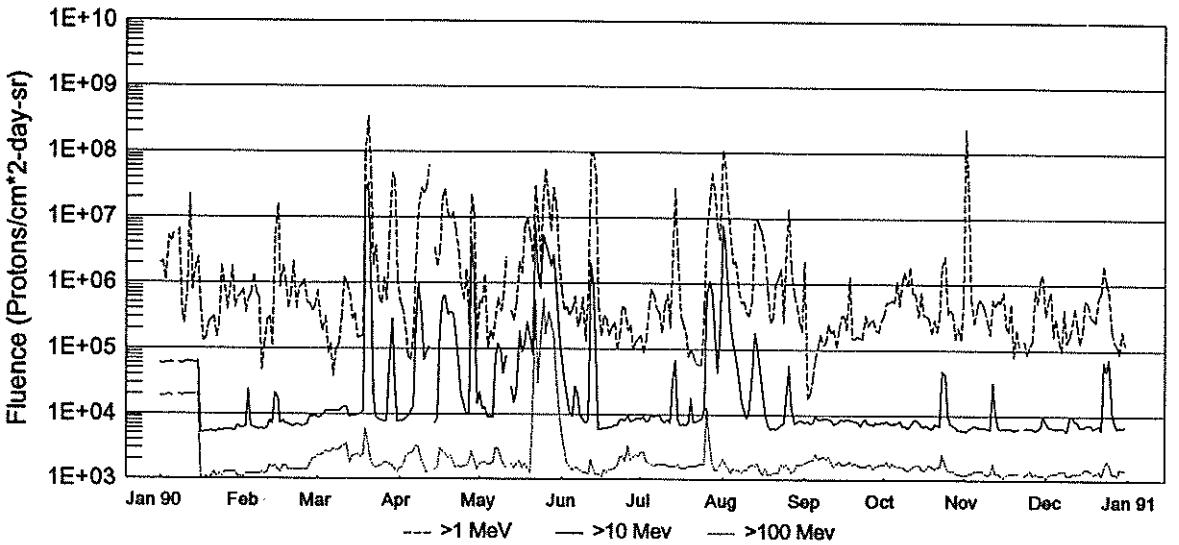
GOES7 Daily Proton Fluences - 1990



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.0E+06	7.9E+05	7.7E+05	5.2E+05	5.4E+05	7.5E+05	1.6E+05	1.1E+08	2.2E+06	3.3E+05	2.4E+08	3.4E+05
2	2.1E+06	3.5E+05	2.6E+05	4.2E+05	4.9E+05	3.9E+05	9.0E+04	7.4E+07	1.8E+04	5.2E+05	3.5E+07	5.7E+05
3	1.1E+06	5.7E+05	1.9E+05	2.0E+05	1.3E+06	4.4E+05	1.4E+05	1.5E+07	2.1E+04	5.2E+05	6.3E+05	7.6E+05
4	5.1E+06	6.9E+05	3.1E+05	7.5E+04	1.0E+05	3.3E+05	4.2E+05	5.0E+06	3.7E+04	5.7E+05	2.5E+05	1.6E+05
5	4.3E+06	1.3E+06	8.6E+04	6.8E+04	1.9E+05	4.0E+05	7.9E+05	2.0E+06	7.2E+04	5.2E+05	4.4E+05	3.0E+05
6	6.2E+06	6.9E+05	1.2E+05	1.6E+05	1.4E+05	6.2E+05	6.6E+05	2.2E+06	1.2E+05	1.1E+06	5.9E+05	1.4E+05
7	--	5.8E+05	3.8E+04	2.2E+06	2.9E+05	2.2E+05	4.0E+05	7.8E+05	1.7E+05	4.7E+05	5.4E+05	9.6E+04
8	6.6E+06	4.7E+04	9.8E+04	1.3E+07	5.9E+05	2.8E+05	3.6E+05	5.0E+05	1.2E+05	1.2E+06	4.3E+05	4.2E+05
9	3.4E+05	1.1E+05	1.2E+05	2.8E+07	3.8E+05	6.1E+05	1.8E+05	5.3E+05	1.3E+05	1.5E+06	2.7E+05	1.3E+05
10	2.4E+05	2.8E+05	3.0E+05	2.3E+07	5.8E+05	1.3E+05	4.4E+05	3.7E+05	2.4E+05	9.3E+05	1.7E+05	1.7E+05
11	7.9E+05	3.0E+05	1.2E+06	2.9E+07	2.5E+06	8.8E+05	7.0E+05	3.2E+05	1.8E+05	1.8E+06	5.8E+05	2.4E+05
12	2.2E+07	1.1E+05	1.0E+06	6.4E+07	--	9.9E+07	2.1E+05	5.6E+05	2.0E+05	7.2E+05	4.7E+05	4.4E+05
13	7.8E+05	5.3E+06	6.6E+05	--	3.8E+05	9.6E+07	2.5E+06	9.7E+06	1.1E+05	7.1E+05	5.9E+05	2.4E+05
14	1.6E+06	1.6E+07	2.8E+05	3.4E+06	2.7E+05	4.2E+07	2.9E+07	9.5E+06	2.1E+05	3.2E+05	5.1E+05	1.3E+05
15	2.4E+06	8.6E+05	3.4E+05	1.8E+06	5.0E+05	4.7E+05	2.9E+06	7.4E+06	3.3E+05	7.5E+05	7.7E+05	2.0E+05
16	4.4E+05	1.8E+06	1.5E+05	3.0E+06	2.1E+06	1.6E+05	3.4E+05	5.9E+06	3.3E+05	3.4E+05	2.3E+05	5.7E+05
17	1.3E+05	1.1E+06	1.5E+05	2.0E+07	1.4E+06	3.2E+05	2.5E+05	2.7E+06	2.0E+05	3.3E+05	1.9E+05	5.2E+05
18	1.4E+05	4.1E+05	1.7E+05	2.7E+07	6.9E+06	2.9E+05	1.8E+05	7.1E+05	1.3E+06	3.1E+05	5.0E+05	3.3E+05
19	2.4E+05	6.7E+05	8.6E+07	1.1E+07	1.0E+07	1.6E+05	7.8E+04	2.6E+05	1.5E+05	1.8E+05	7.8E+04	3.0E+05
20	2.8E+05	2.1E+06	3.5E+08	9.5E+06	5.3E+06	2.1E+05	1.0E+05	2.9E+05	1.5E+05	2.9E+05	2.0E+05	2.7E+05
21	3.1E+05	4.1E+05	4.8E+07	1.2E+07	2.1E+06	2.5E+05	8.1E+04	1.0E+06	1.6E+05	1.9E+05	1.1E+05	6.2E+05
22	1.5E+05	8.6E+05	1.8E+06	6.6E+06	3.0E+07	1.0E+05	6.0E+04	1.2E+06	1.5E+05	3.2E+05	--	7.6E+05
23	2.3E+05	9.2E+05	3.7E+06	2.9E+06	1.1E+07	1.6E+05	5.7E+04	1.7E+06	1.5E+05	1.8E+06	1.4E+05	2.0E+06
24	1.8E+06	1.1E+06	5.9E+05	1.0E+06	2.1E+06	4.4E+05	5.7E+04	2.6E+05	3.4E+05	2.7E+06	8.7E+04	1.1E+06
25	9.0E+05	4.9E+05	4.9E+05	5.6E+05	2.5E+07	4.3E+05	4.3E+05	3.2E+06	2.3E+05	3.6E+05	1.2E+05	7.8E+05
26	3.9E+05	4.8E+05	1.2E+06	1.6E+06	5.5E+07	1.9E+05	5.6E+06	1.4E+07	2.7E+05	4.1E+05	1.4E+05	2.0E+05
27	7.9E+05	3.8E+05	5.4E+05	2.3E+05	1.7E+07	2.3E+05	1.9E+07	1.8E+06	2.9E+05	3.7E+05	8.4E+05	1.4E+05
28	1.8E+06	4.5E+05	4.8E+06	2.2E+07	6.1E+06	1.0E+05	4.9E+07	6.9E+05	2.0E+05	1.5E+05	5.1E+05	1.2E+05
29	4.2E+05		4.7E+07	1.2E+07	2.9E+07	1.3E+05	2.5E+07	4.6E+05	1.9E+05	2.2E+05	1.3E+06	8.9E+04
30	5.8E+05		3.7E+07	1.4E+05	1.6E+07	1.5E+05	7.7E+06	2.7E+05	2.8E+05	1.5E+05	1.4E+06	2.0E+05
31	6.6E+05		1.2E+06		2.0E+06		4.6E+06	1.9E+05		5.3E+05		1.2E+05

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GOES7 >10 MeV Proton Fluence - 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.9E+04	6.2E+03	8.9E+03	8.0E+03	2.2E+04	7.0E+04	8.5E+03	7.7E+06	7.6E+03	7.6E+03	5.7E+03	8.0E+03
2	5.7E+04	6.4E+03	9.1E+03	7.8E+03	1.2E+04	3.4E+04	9.2E+03	4.3E+06	8.1E+03	8.3E+03	6.2E+03	6.8E+03
3	6.0E+04	2.4E+04	9.7E+03	8.6E+03	1.3E+04	2.0E+04	7.8E+03	7.3E+05	7.5E+03	7.4E+03	6.6E+03	6.6E+03
4	6.0E+04	6.5E+03	1.1E+04	9.0E+03	8.9E+03	1.1E+04	7.9E+03	2.2E+05	7.6E+03	7.5E+03	7.1E+03	6.3E+03
5	6.1E+04	6.1E+03	1.1E+04	1.1E+04	9.0E+03	9.3E+03	1.0E+04	1.2E+05	9.4E+03	7.5E+03	6.6E+03	6.3E+03
6	5.9E+04	6.1E+03	1.1E+04	1.3E+04	8.8E+03	2.7E+04	9.3E+03	7.7E+04	8.4E+03	7.6E+03	6.6E+03	6.3E+03
7	--	5.7E+03	1.1E+04	2.4E+05	7.6E+04	2.1E+04	9.9E+03	3.5E+04	8.7E+03	8.2E+03	6.5E+03	6.5E+03
8	5.9E+04	6.1E+03	1.1E+04	1.0E+06	1.2E+05	1.0E+04	1.0E+04	1.6E+04	8.6E+03	6.8E+03	6.7E+03	6.4E+03
9	5.8E+04	5.7E+03	1.1E+04	3.3E+05	8.9E+04	8.5E+03	7.9E+03	1.2E+04	8.9E+03	7.0E+03	6.2E+03	5.7E+03
10	6.1E+04	6.2E+03	1.2E+04	6.7E+04	4.2E+04	7.5E+03	7.6E+03	8.8E+03	8.7E+03	6.2E+03	6.1E+03	1.0E+04
11	6.3E+04	7.9E+03	1.3E+04	8.9E+04	7.9E+04	8.1E+03	8.5E+03	1.1E+04	8.4E+03	7.1E+03	3.3E+04	1.0E+04
12	6.1E+04	7.1E+03	1.3E+04	1.1E+05	--	2.0E+06	7.4E+03	4.3E+04	7.2E+03	8.1E+03	1.1E+04	8.1E+03
13	6.2E+04	2.1E+04	8.8E+03	--	2.6E+04	9.0E+05	3.4E+04	1.8E+05	7.6E+03	8.6E+03	6.4E+03	8.1E+03
14	6.0E+04	1.8E+04	9.7E+03	7.3E+03	1.5E+04	8.2E+04	6.8E+04	1.1E+05	7.9E+03	8.0E+03	6.2E+03	6.6E+03
15	6.4E+04	7.3E+03	9.3E+03	8.6E+03	2.2E+04	5.8E+03	8.2E+03	5.0E+04	8.8E+03	6.9E+03	6.3E+03	6.7E+03
16	5.2E+03	8.0E+03	9.7E+03	2.0E+05	1.9E+05	6.1E+03	6.8E+03	2.4E+04	8.1E+03	6.7E+03	6.2E+03	7.0E+03
17	5.2E+03	7.1E+03	1.0E+04	5.7E+05	8.8E+04	6.1E+03	7.2E+03	1.0E+04	8.9E+03	7.1E+03	6.4E+03	7.5E+03
18	5.2E+03	7.1E+03	1.1E+04	6.4E+05	1.2E+05	6.2E+03	6.8E+03	7.0E+03	8.3E+03	6.5E+03	6.4E+03	7.2E+03
19	5.3E+03	6.7E+03	2.5E+07	3.3E+05	2.6E+05	6.4E+03	7.5E+03	5.9E+03	8.2E+03	6.2E+03	6.0E+03	6.4E+03
20	5.5E+03	6.5E+03	3.3E+07	3.7E+05	1.5E+05	6.4E+03	1.8E+04	6.3E+03	8.0E+03	7.4E+03	6.2E+03	6.7E+03
21	5.3E+03	6.9E+03	1.3E+06	3.4E+05	8.1E+04	6.9E+03	7.6E+03	6.0E+03	7.9E+03	7.1E+03	6.4E+03	7.2E+03
22	5.2E+03	6.8E+03	2.0E+04	1.7E+05	8.3E+06	6.8E+03	7.8E+03	6.4E+03	6.8E+03	6.8E+03	--	6.1E+03
23	5.7E+03	6.5E+03	9.0E+03	5.1E+04	1.6E+06	8.3E+03	8.2E+03	7.1E+03	8.0E+03	4.8E+04	6.4E+03	6.6E+04
24	5.5E+03	6.6E+03	8.1E+03	2.1E+04	8.2E+05	8.3E+03	8.5E+03	7.4E+03	8.9E+03	4.3E+04	6.5E+03	4.8E+04
25	5.8E+03	7.1E+03	8.1E+03	1.4E+04	5.4E+06	8.1E+03	1.2E+04	1.9E+04	7.4E+03	1.0E+04	6.3E+03	7.6E+04
26	5.7E+03	9.3E+03	7.6E+03	1.0E+04	4.0E+06	9.7E+03	7.0E+05	5.7E+04	7.4E+03	7.5E+03	6.3E+03	1.1E+04
27	5.7E+03	9.0E+03	8.0E+03	1.0E+04	2.7E+06	7.7E+03	1.1E+06	1.3E+04	7.0E+03	6.9E+03	6.0E+03	7.9E+03
28	5.7E+03	9.4E+03	5.5E+04	4.4E+06	1.8E+06	8.0E+03	7.0E+05	7.5E+03	7.8E+03	6.7E+03	6.2E+03	6.4E+03
29	5.5E+03		2.8E+05	1.4E+06	2.7E+06	8.6E+03	1.6E+05	7.7E+03	7.4E+03	6.0E+03	6.9E+03	6.8E+03
30	6.8E+03		2.8E+04	1.4E+04	8.2E+05	8.8E+03	4.4E+04	8.2E+03	7.7E+03	6.0E+03	1.0E+04	6.5E+03
31	6.1E+03		7.6E+03		1.6E+05		1.8E+05	8.1E+03		5.8E+03		6.9E+03

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GOES7 >100 MeV Proton Fluence - 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.9E+04	1.1E+03	2.3E+03	1.5E+03	1.7E+03	4.9E+03	2.6E+03	2.1E+03	1.8E+03	1.7E+03	1.2E+03	1.1E+03
2	1.9E+04	1.2E+03	2.3E+03	1.5E+03	1.8E+03	3.0E+03	2.6E+03	1.8E+03	1.9E+03	1.9E+03	1.3E+03	1.2E+03
3	1.9E+04	1.2E+03	2.4E+03	2.2E+03	1.8E+03	1.8E+03	1.9E+03	1.5E+03	2.0E+03	1.6E+03	1.3E+03	1.3E+03
4	2.0E+04	1.2E+03	2.7E+03	2.4E+03	1.7E+03	1.6E+03	1.8E+03	1.3E+03	2.0E+03	1.8E+03	1.4E+03	1.3E+03
5	1.9E+04	1.2E+03	2.6E+03	2.5E+03	1.7E+03	1.4E+03	1.7E+03	1.5E+03	2.5E+03	1.7E+03	1.4E+03	1.3E+03
6	1.9E+04	1.2E+03	2.6E+03	2.6E+03	1.8E+03	1.5E+03	1.6E+03	1.4E+03	2.1E+03	1.6E+03	1.4E+03	1.4E+03
7	--	1.2E+03	2.9E+03	3.2E+03	3.0E+03	1.5E+03	1.7E+03	1.4E+03	2.2E+03	1.6E+03	1.4E+03	1.4E+03
8	2.0E+04	1.3E+03	2.8E+03	3.1E+03	3.0E+03	1.4E+03	1.7E+03	1.3E+03	2.3E+03	1.6E+03	1.3E+03	1.4E+03
9	1.9E+04	1.2E+03	2.8E+03	1.9E+03	2.1E+03	1.3E+03	1.7E+03	1.4E+03	2.1E+03	1.5E+03	1.2E+03	1.2E+03
10	2.0E+04	1.3E+03	3.1E+03	1.6E+03	1.7E+03	1.3E+03	1.7E+03	1.4E+03	2.3E+03	1.4E+03	1.3E+03	1.2E+03
11	2.0E+04	1.6E+03	3.3E+03	1.3E+03	1.5E+03	1.2E+03	1.6E+03	1.6E+03	1.9E+03	1.5E+03	1.8E+03	1.3E+03
12	2.0E+04	1.5E+03	3.5E+03	1.3E+03	--	2.0E+03	1.6E+03	1.7E+03	1.6E+03	1.6E+03	1.3E+03	1.3E+03
13	2.0E+04	1.6E+03	1.8E+03	--	1.7E+03	1.4E+03	1.6E+03	1.6E+03	1.8E+03	1.7E+03	1.3E+03	1.3E+03
14	2.0E+04	1.4E+03	2.3E+03	1.4E+03	1.5E+03	1.2E+03	1.6E+03	1.8E+03	1.9E+03	1.7E+03	1.2E+03	1.3E+03
15	2.1E+04	1.3E+03	2.3E+03	1.5E+03	1.7E+03	1.2E+03	1.7E+03	1.4E+03	1.7E+03	1.5E+03	1.1E+03	1.4E+03
16	1.1E+03	1.6E+03	2.4E+03	3.0E+03	1.9E+03	1.1E+03	1.5E+03	1.2E+03	1.7E+03	1.4E+03	1.2E+03	1.5E+03
17	1.0E+03	1.6E+03	2.2E+03	2.7E+03	1.5E+03	1.4E+03	1.5E+03	1.5E+03	1.8E+03	1.5E+03	1.3E+03	1.5E+03
18	1.1E+03	1.4E+03	2.4E+03	2.5E+03	1.7E+03	1.3E+03	1.5E+03	1.2E+03	1.9E+03	1.7E+03	1.3E+03	1.4E+03
19	1.0E+03	1.4E+03	6.0E+03	2.1E+03	1.5E+03	1.4E+03	1.6E+03	1.2E+03	1.7E+03	1.6E+03	1.3E+03	1.3E+03
20	1.1E+03	1.4E+03	3.4E+03	2.3E+03	1.3E+03	1.4E+03	1.6E+03	1.3E+03	1.8E+03	1.5E+03	1.3E+03	1.3E+03
21	1.3E+03	1.4E+03	1.9E+03	1.9E+03	1.2E+04	1.5E+03	1.6E+03	1.3E+03	1.7E+03	1.6E+03	1.3E+03	1.4E+03
22	1.1E+03	1.4E+03	1.6E+03	1.5E+03	5.3E+05	1.6E+03	1.6E+03	1.3E+03	1.6E+03	1.6E+03	--	1.2E+03
23	1.2E+03	1.4E+03	1.5E+03	1.6E+03	3.1E+04	2.2E+03	1.7E+03	1.7E+03	1.6E+03	2.5E+03	1.2E+03	1.6E+03
24	1.1E+03	1.4E+03	1.6E+03	1.5E+03	1.2E+05	2.3E+03	1.7E+03	1.6E+03	1.6E+03	1.7E+03	1.3E+03	2.0E+03
25	1.3E+03	1.4E+03	1.6E+03	1.6E+03	5.7E+05	1.9E+03	1.7E+03	1.7E+03	1.7E+03	1.4E+03	1.4E+03	1.8E+03
26	1.3E+03	1.7E+03	1.8E+03	1.6E+03	1.7E+05	3.3E+03	1.3E+04	1.5E+03	1.7E+03	1.4E+03	1.2E+03	1.3E+03
27	1.3E+03	2.0E+03	1.8E+03	1.8E+03	3.6E+05	2.0E+03	3.4E+03	1.3E+03	1.5E+03	1.4E+03	1.3E+03	1.3E+03
28	1.3E+03	2.1E+03	1.7E+03	2.7E+03	2.4E+05	2.2E+03	1.8E+03	1.4E+03	1.6E+03	1.3E+03	1.2E+03	1.2E+03
29	1.3E+03		1.6E+03	2.0E+03	1.7E+05	2.4E+03	1.4E+03	1.7E+03	1.7E+03	1.3E+03	1.2E+03	1.5E+03
30	1.1E+03		1.4E+03	1.4E+03	3.9E+04	2.3E+03	1.4E+03	1.7E+03	1.7E+03	1.2E+03	1.2E+03	1.5E+03
31	1.1E+03		1.3E+03		1.1E+04		1.7E+03	1.7E+03		1.2E+03		1.4E+03

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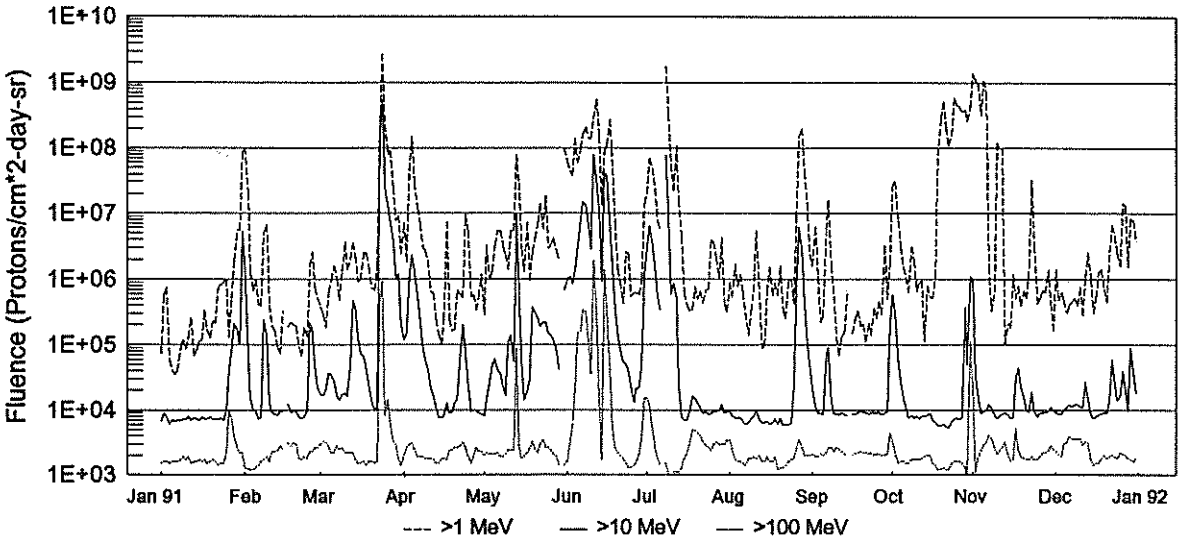
GOES7 Daily Proton Fluences - 1991



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.3E+04	1.0E+08	3.8E+05	7.1E+06	2.9E+05	6.3E+07	2.0E+07	9.1E+05	1.6E+06	2.7E+07	1.1E+09	1.4E+06
2	5.7E+05	2.0E+07	2.9E+05	1.8E+06	3.3E+06	4.4E+07	6.8E+07	5.3E+05	6.2E+06	3.0E+07	9.9E+08	4.8E+05
3	7.5E+05	1.3E+06	1.8E+05	4.5E+07	1.0E+06	3.8E+07	4.8E+07	1.7E+06	1.1E+06	7.7E+06	3.2E+08	6.4E+05
4	5.8E+04	6.7E+05	6.2E+05	1.5E+08	1.3E+06	1.4E+08	2.3E+07	7.6E+05	2.2E+05	3.1E+06	1.1E+09	4.8E+05
5	4.1E+04	1.0E+06	9.6E+05	2.9E+07	3.2E+06	5.8E+07	7.4E+06	1.2E+06	2.7E+05	1.5E+06	7.1E+08	3.1E+05
6	3.5E+04	4.0E+05	1.6E+06	1.2E+07	5.3E+06	9.7E+07	5.5E+06	6.2E+05	5.6E+06	1.1E+06	1.5E+06	4.1E+05
7	4.0E+04	3.9E+05	1.0E+06	6.7E+06	5.4E+06	1.6E+08	--	3.1E+05	1.6E+07	6.2E+05	3.2E+05	4.5E+05
8	8.9E+04	5.0E+06	4.7E+05	3.0E+06	3.1E+06	2.1E+08	1.8E+09	1.4E+05	1.6E+06	3.1E+06	6.5E+05	5.1E+05
9	1.2E+05	6.6E+06	1.3E+06	2.7E+06	2.3E+06	1.4E+08	3.3E+08	3.3E+05	5.5E+05	1.9E+06	1.2E+08	4.0E+05
10	8.5E+04	4.0E+05	3.6E+06	1.9E+06	1.4E+06	1.4E+08	5.5E+07	6.5E+05	1.3E+05	6.5E+05	9.7E+07	7.6E+05
11	1.3E+05	1.9E+05	1.4E+06	6.4E+05	5.3E+06	2.8E+08	2.2E+07	5.4E+06	6.8E+04	8.7E+05	1.0E+08	2.8E+05
12	2.5E+05	1.7E+05	2.0E+06	6.1E+05	5.5E+06	5.6E+08	1.1E+08	6.3E+05	1.3E+05	9.5E+05	1.0E+05	1.1E+06
13	6.8E+04	8.9E+04	3.5E+06	2.4E+05	7.8E+07	1.5E+08	1.6E+07	8.7E+04	1.6E+05	1.1E+05	2.1E+05	2.5E+06
14	8.3E+04	7.3E+04	2.2E+06	1.5E+05	2.8E+07	1.3E+07	4.4E+06	9.7E+04	6.8E+05	7.9E+05	1.8E+05	1.0E+06
15	1.1E+05	3.4E+05	9.1E+05	1.0E+05	2.8E+06	8.7E+07	6.2E+05	6.4E+05	--	5.2E+05	1.2E+06	3.0E+05
16	1.2E+05	--	9.7E+05	2.4E+05	1.3E+06	1.1E+08	4.2E+05	1.5E+06	1.5E+05	5.1E+05	5.0E+05	5.3E+05
17	3.4E+05	1.9E+05	2.5E+06	7.3E+06	7.2E+06	2.7E+08	3.3E+05	5.7E+05	2.6E+05	1.1E+06	7.9E+05	1.3E+06
18	1.7E+05	2.2E+05	2.4E+06	2.4E+05	9.5E+05	4.8E+07	3.5E+05	8.9E+05	3.3E+05	7.7E+07	3.9E+05	1.4E+06
19	1.3E+05	2.0E+05	1.5E+06	1.6E+05	2.6E+06	7.0E+06	7.8E+05	5.7E+05	1.9E+05	2.8E+08	6.7E+05	7.2E+05
20	2.3E+05	1.9E+05	7.5E+05	1.7E+05	4.0E+06	1.4E+06	5.0E+05	1.6E+06	2.0E+05	5.2E+08	5.1E+05	4.5E+05
21	2.1E+05	9.3E+04	6.6E+05	6.9E+05	7.3E+06	9.1E+05	6.5E+05	3.5E+05	1.1E+05	2.1E+08	1.6E+06	2.6E+06
22	7.4E+05	6.6E+04	1.7E+06	5.9E+05	1.4E+07	4.2E+05	4.4E+05	2.5E+05	2.1E+05	1.1E+08	3.2E+07	6.5E+06
23	8.2E+05	1.8E+05	2.5E+08	5.2E+05	5.6E+06	2.6E+06	6.9E+05	1.0E+06	1.4E+05	1.6E+08	3.2E+06	4.6E+06
24	9.1E+05	1.3E+05	2.7E+09	9.3E+06	1.8E+07	2.4E+06	7.1E+05	1.0E+06	3.6E+05	5.9E+08	4.2E+05	2.5E+06
25	1.0E+06	1.6E+06	2.3E+08	5.3E+06	2.9E+06	5.5E+05	3.9E+06	4.2E+05	2.5E+05	4.6E+08	5.1E+05	1.6E+06
26	1.3E+05	2.6E+06	7.8E+07	5.3E+05	3.3E+06	6.3E+05	3.7E+06	8.3E+06	4.6E+05	4.3E+08	6.8E+05	1.4E+07
27	5.1E+05	7.5E+05	8.9E+07	5.8E+05	4.1E+06	6.3E+05	2.1E+06	1.5E+08	2.9E+05	3.6E+08	6.2E+05	1.3E+07
28	1.9E+06	5.2E+05	2.4E+07	3.4E+05	2.6E+06	5.8E+05	1.0E+06	2.0E+08	3.2E+06	3.8E+08	1.4E+06	1.5E+06
29	5.5E+06		7.7E+06	5.3E+05	1.9E+06	1.0E+06	4.3E+06	4.2E+07	4.9E+05	2.6E+08	4.3E+05	8.3E+06
30	5.5E+06		9.2E+06	1.2E+06	--	1.4E+07	4.2E+05	1.4E+07	1.8E+06	4.2E+08	1.6E+05	7.6E+06
31	8.5E+07		2.4E+06		9.7E+07		3.2E+05	2.4E+06		1.4E+09		3.7E+06

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 >10 MeV Proton Fluence - 1991

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.8E+03	1.4E+06	1.7E+04	1.2E+05	8.1E+03	1.0E+06	2.9E+06	9.6E+03	2.1E+04	5.7E+05	3.4E+04	8.8E+03
2	8.9E+03	7.5E+04	1.7E+04	1.5E+05	1.4E+04	1.1E+06	6.4E+06	8.3E+03	1.1E+04	3.0E+05	1.7E+04	8.7E+03
3	8.0E+03	1.5E+04	2.0E+04	1.1E+06	2.6E+04	8.6E+05	3.2E+06	7.4E+03	8.8E+03	5.6E+04	8.6E+03	8.4E+03
4	6.1E+03	9.8E+03	3.7E+04	2.3E+06	4.8E+04	1.4E+06	1.4E+06	7.6E+03	8.9E+03	2.7E+04	9.6E+03	1.0E+04
5	6.9E+03	9.5E+03	3.5E+04	1.3E+06	6.1E+04	3.0E+06	5.4E+05	7.6E+03	8.3E+03	1.5E+04	9.9E+03	1.1E+04
6	6.7E+03	7.3E+03	2.8E+04	5.6E+05	4.2E+04	8.4E+06	3.4E+05	6.6E+03	6.6E+04	1.1E+04	1.2E+04	1.2E+04
7	6.9E+03	7.6E+03	1.6E+04	2.3E+05	3.7E+04	1.5E+07	--	5.9E+03	9.4E+04	7.4E+03	1.1E+04	1.1E+04
8	6.8E+03	2.4E+05	1.4E+04	9.6E+04	2.3E+04	1.3E+07	7.6E+07	6.4E+03	1.3E+04	8.1E+03	8.2E+03	1.2E+04
9	7.2E+03	1.4E+05	1.7E+04	5.8E+04	1.7E+04	6.7E+06	8.0E+06	7.3E+03	8.7E+03	7.5E+03	7.2E+03	1.2E+04
10	7.1E+03	1.3E+04	1.8E+04	4.4E+04	1.1E+05	2.8E+06	5.9E+05	7.9E+03	8.6E+03	7.9E+03	7.9E+03	1.1E+04
11	8.0E+03	9.3E+03	1.6E+04	2.1E+04	1.4E+05	7.9E+07	8.8E+05	9.7E+03	8.3E+03	7.3E+03	8.4E+03	1.1E+04
12	6.9E+03	8.5E+03	4.7E+04	1.6E+04	5.5E+04	2.8E+07	5.2E+05	7.1E+03	9.1E+03	8.0E+03	9.1E+03	2.7E+04
13	7.4E+03	8.3E+03	4.7E+05	1.1E+04	1.0E+07	1.1E+07	2.7E+04	6.4E+03	8.2E+03	7.9E+03	8.3E+03	1.5E+04
14	7.1E+03	9.9E+03	3.6E+05	7.6E+03	6.5E+05	9.2E+05	7.6E+03	6.3E+03	8.0E+03	8.1E+03	7.5E+03	8.4E+03
15	7.0E+03	9.1E+03	1.3E+05	7.6E+03	5.6E+04	4.1E+07	7.0E+03	6.7E+03	--	8.9E+03	7.6E+03	7.4E+03
16	7.7E+03	--	7.3E+04	8.0E+03	1.4E+04	3.7E+07	7.0E+03	6.1E+03	8.5E+03	7.0E+03	3.0E+04	7.8E+03
17	7.2E+03	1.2E+04	6.7E+04	1.3E+04	1.9E+04	5.8E+06	9.1E+03	6.3E+03	8.6E+03	6.5E+03	4.5E+04	8.5E+03
18	7.2E+03	9.1E+03	4.2E+04	8.9E+03	2.9E+04	1.4E+06	1.6E+04	7.2E+03	8.9E+03	5.7E+03	2.3E+04	8.6E+03
19	7.7E+03	9.9E+03	2.3E+04	9.0E+03	3.8E+05	3.6E+05	1.5E+04	6.1E+03	1.0E+04	5.7E+03	1.5E+04	9.1E+03
20	7.1E+03	9.6E+03	1.4E+04	1.3E+04	3.2E+05	1.5E+05	1.3E+04	7.5E+03	9.1E+03	6.0E+03	9.7E+03	8.8E+03
21	7.2E+03	7.8E+03	9.6E+03	1.4E+04	2.5E+05	8.4E+04	1.1E+04	5.8E+03	9.0E+03	5.4E+03	9.2E+03	1.4E+04
22	7.1E+03	7.3E+03	1.1E+04	7.0E+04	1.9E+05	5.4E+04	8.9E+03	5.9E+03	8.4E+03	5.3E+03	1.9E+04	6.0E+04
23	7.4E+03	7.7E+03	1.7E+08	2.0E+05	2.2E+05	5.1E+04	9.2E+03	6.0E+03	9.1E+03	6.5E+03	9.5E+03	2.7E+04
24	7.0E+03	1.0E+04	5.5E+08	7.9E+04	2.2E+05	4.0E+04	8.5E+03	6.4E+03	8.8E+03	7.3E+03	7.8E+03	1.4E+04
25	9.7E+03	2.1E+05	2.4E+07	2.7E+04	1.5E+05	2.3E+04	8.6E+03	2.3E+04	8.9E+03	7.4E+03	8.8E+03	1.6E+04
26	3.8E+04	1.7E+05	1.2E+07	9.4E+03	1.4E+05	1.3E+04	9.4E+03	7.4E+05	9.0E+03	7.1E+03	9.0E+03	3.9E+04
27	8.1E+04	4.4E+04	7.4E+06	9.9E+03	1.2E+05	2.1E+04	9.5E+03	6.1E+06	8.3E+03	7.6E+03	9.1E+03	2.1E+04
28	2.1E+05	2.2E+04	3.8E+06	1.0E+04	8.2E+04	2.2E+04	1.0E+04	2.6E+06	8.9E+03	3.8E+05	9.6E+03	9.7E+03
29	1.7E+05		1.0E+06	8.8E+03	4.1E+04	5.2E+04	1.2E+04	4.2E+05	9.2E+03	5.0E+04	1.1E+04	9.0E+04
30	1.0E+05		1.2E+06	8.7E+03	--	1.2E+06	9.0E+03	1.1E+05	2.1E+05	1.1E+06	1.0E+04	3.5E+04
31	5.2E+06		2.0E+05		6.9E+05		9.2E+03	4.9E+04		1.0E+06		1.8E+04

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GOES7 >100 MeV Proton Fluence - 1991

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.5E+03	1.3E+03	3.0E+03	2.0E+03	2.0E+03	1.6E+03	1.5E+04	3.4E+03	2.1E+03	3.3E+03	1.1E+03	2.3E+03
2	1.6E+03	1.2E+03	3.3E+03	2.6E+03	2.2E+03	3.0E+03	1.2E+04	2.5E+03	1.9E+03	2.2E+03	1.8E+03	2.1E+03
3	1.6E+03	1.2E+03	3.1E+03	2.9E+03	2.1E+03	5.8E+03	5.0E+03	1.7E+03	1.9E+03	1.5E+03	2.4E+03	1.9E+03
4	1.5E+03	1.2E+03	2.8E+03	3.1E+03	2.1E+03	2.1E+04	2.6E+03	1.6E+03	2.1E+03	1.6E+03	2.9E+03	3.0E+03
5	1.6E+03	1.3E+03	2.2E+03	2.5E+03	2.1E+03	1.5E+05	1.8E+03	1.6E+03	2.0E+03	1.6E+03	3.1E+03	3.2E+03
6	1.6E+03	1.4E+03	2.2E+03	1.9E+03	2.2E+03	1.6E+05	1.4E+03	1.5E+03	2.2E+03	1.5E+03	4.1E+03	3.9E+03
7	1.6E+03	1.6E+03	2.8E+03	1.9E+03	1.9E+03	3.4E+05	--	1.4E+03	2.6E+03	1.5E+03	3.7E+03	3.6E+03
8	1.7E+03	1.7E+03	2.5E+03	1.9E+03	1.9E+03	3.2E+05	1.5E+03	1.8E+03	2.6E+03	1.7E+03	2.7E+03	3.6E+03
9	1.9E+03	1.9E+03	2.6E+03	1.8E+03	2.1E+03	1.1E+05	9.9E+02	1.8E+03	2.3E+03	1.7E+03	2.1E+03	3.6E+03
10	1.7E+03	1.6E+03	2.2E+03	1.8E+03	2.4E+03	3.6E+04	1.0E+03	1.9E+03	2.7E+03	1.7E+03	2.4E+03	3.6E+03
11	1.9E+03	2.3E+03	2.2E+03	1.8E+03	2.4E+03	1.9E+06	1.1E+03	1.8E+03	2.5E+03	1.7E+03	2.7E+03	2.9E+03
12	1.5E+03	2.3E+03	2.2E+03	1.7E+03	2.4E+03	2.9E+05	1.1E+03	2.0E+03	2.3E+03	1.8E+03	3.2E+03	3.3E+03
13	1.6E+03	2.4E+03	2.2E+03	1.5E+03	8.7E+04	1.4E+04	1.1E+03	1.6E+03	2.1E+03	1.9E+03	2.1E+03	3.1E+03
14	1.6E+03	2.8E+03	1.7E+03	1.5E+03	2.8E+03	1.7E+03	1.3E+03	1.6E+03	1.9E+03	2.0E+03	1.6E+03	1.7E+03
15	1.7E+03	2.5E+03	1.5E+03	1.8E+03	1.8E+03	1.4E+06	1.8E+03	1.9E+03	--	2.0E+03	1.7E+03	1.4E+03
16	1.6E+03	--	1.5E+03	1.8E+03	1.9E+03	3.4E+05	2.1E+03	1.6E+03	2.0E+03	1.5E+03	5.1E+03	1.5E+03
17	1.7E+03	3.1E+03	1.6E+03	1.7E+03	2.2E+03	4.2E+04	2.9E+03	1.6E+03	2.2E+03	1.4E+03	2.5E+03	1.5E+03
18	1.5E+03	2.8E+03	1.4E+03	2.4E+03	2.5E+03	5.0E+03	4.9E+03	1.9E+03	2.2E+03	1.2E+03	1.9E+03	1.8E+03
19	1.6E+03	3.1E+03	1.6E+03	2.4E+03	3.3E+03	2.6E+03	4.9E+03	1.2E+03	2.3E+03	1.2E+03	1.8E+03	2.0E+03
20	1.7E+03	2.9E+03	1.6E+03	2.7E+03	2.5E+03	2.2E+03	4.5E+03	1.3E+03	2.2E+03	1.3E+03	1.7E+03	1.8E+03
21	1.6E+03	1.8E+03	1.5E+03	2.6E+03	2.2E+03	2.0E+03	4.1E+03	1.3E+03	2.2E+03	1.2E+03	1.7E+03	1.9E+03
22	1.4E+03	1.7E+03	1.6E+03	2.8E+03	3.0E+03	1.8E+03	3.3E+03	1.4E+03	2.1E+03	1.2E+03	1.9E+03	2.0E+03
23	1.5E+03	1.9E+03	4.3E+05	3.1E+03	3.4E+03	1.5E+03	2.8E+03	1.6E+03	2.2E+03	1.5E+03	1.7E+03	1.9E+03
24	1.5E+03	1.8E+03	9.4E+05	2.7E+03	2.6E+03	1.3E+03	2.7E+03	1.7E+03	2.0E+03	1.6E+03	1.7E+03	1.8E+03
25	2.2E+03	2.3E+03	8.2E+03	2.0E+03	2.7E+03	1.3E+03	2.4E+03	1.8E+03	2.1E+03	1.6E+03	1.9E+03	2.2E+03
26	9.6E+03	2.3E+03	1.4E+04	1.5E+03	2.4E+03	1.4E+03	3.0E+03	2.6E+03	2.1E+03	1.6E+03	2.2E+03	2.1E+03
27	7.3E+03	2.6E+03	6.6E+03	1.9E+03	2.1E+03	1.5E+03	3.2E+03	3.5E+03	2.0E+03	1.5E+03	2.2E+03	2.0E+03
28	4.0E+03	2.6E+03	3.3E+03	2.6E+03	1.9E+03	2.1E+03	2.9E+03	2.6E+03	2.0E+03	1.3E+03	2.4E+03	1.8E+03
29	2.7E+03		3.0E+03	2.3E+03	1.4E+03	4.2E+03	3.0E+03	2.0E+03	2.1E+03	8.9E+02	2.8E+03	1.7E+03
30	2.2E+03		1.8E+03	2.3E+03	--	1.5E+04	3.0E+03	2.0E+03	4.4E+03	1.1E+05	2.5E+03	1.6E+03
31	2.2E+03		1.4E+03		1.4E+03		3.4E+03	2.0E+03		2.4E+04		1.9E+03

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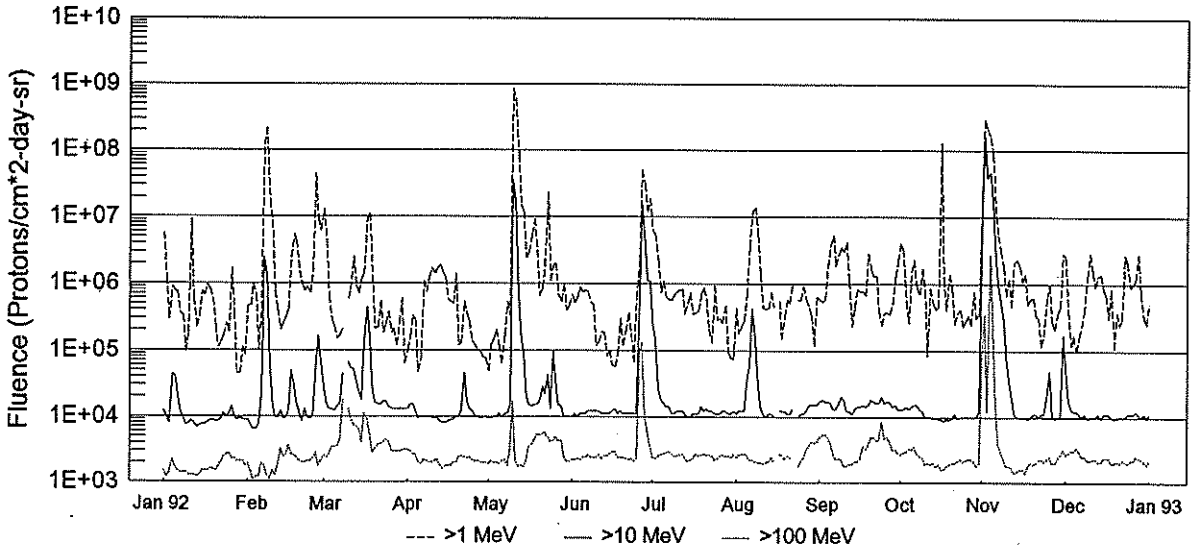
GOES7 Daily Proton Fluences - 1992



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.6E+06	4.7E+05	4.3E+06	1.6E+05	1.2E+05	5.1E+05	5.5E+06	1.8E+05	5.3E+05	3.4E+06	2.2E+08	4.0E+05
2	1.2E+06	4.7E+05	6.4E+05	3.2E+05	1.5E+05	6.2E+05	2.2E+06	2.3E+05	6.0E+05	5.5E+05	1.6E+08	1.2E+05
3	2.9E+05	9.9E+05	2.9E+05	2.8E+05	2.0E+05	8.8E+05	7.3E+05	2.8E+05	1.8E+06	2.6E+05	8.8E+07	1.7E+05
4	9.2E+05	6.6E+05	2.3E+05	4.8E+04	1.2E+05	7.4E+05	1.1E+06	6.7E+05	3.7E+06	1.5E+06	1.5E+07	1.0E+05
5	7.5E+05	1.0E+05	1.5E+05	7.5E+04	6.4E+04	7.8E+05	6.2E+05	3.6E+06	5.3E+06	2.3E+06	5.4E+06	1.6E+05
6	7.5E+05	4.1E+05	1.7E+05	1.1E+06	1.7E+05	7.5E+05	5.7E+05	1.2E+07	1.9E+06	8.8E+05	3.2E+06	2.3E+05
7	3.6E+05	1.2E+08	2.1E+05	7.3E+05	5.3E+05	5.1E+05	5.7E+05	1.4E+07	2.8E+06	7.0E+05	1.8E+06	3.8E+05
8	3.2E+05	2.2E+08	–	1.2E+06	3.2E+05	4.8E+05	6.9E+05	5.3E+06	3.5E+06	1.7E+06	6.6E+05	1.3E+06
9	9.5E+04	1.7E+07	5.9E+05	1.7E+06	8.6E+08	1.2E+05	7.5E+05	1.4E+06	3.0E+06	8.0E+05	1.2E+06	2.9E+06
10	1.8E+05	8.6E+06	8.0E+05	1.4E+06	5.8E+08	1.3E+05	8.0E+05	4.4E+05	4.2E+06	8.3E+04	4.6E+05	1.5E+06
11	9.2E+06	7.6E+05	2.5E+06	1.7E+06	8.3E+07	1.9E+05	8.2E+05	4.2E+05	1.1E+06	8.5E+05	2.1E+06	9.1E+05
12	5.8E+05	4.1E+05	9.1E+05	1.9E+06	1.5E+07	1.8E+05	3.5E+05	4.3E+05	2.3E+05	5.4E+05	2.3E+06	1.3E+06
13	2.2E+05	2.0E+05	7.2E+05	1.5E+06	1.2E+07	8.1E+04	5.1E+05	7.4E+05	4.5E+05	4.1E+05	1.8E+06	1.4E+06
14	3.3E+05	2.6E+05	1.2E+06	1.2E+06	2.4E+06	1.0E+05	7.3E+05	4.5E+05	8.3E+05	4.6E+05	1.1E+06	8.0E+05
15	7.7E+05	3.1E+05	1.4E+06	5.9E+05	2.9E+06	5.9E+04	3.5E+05	–	7.6E+05	1.3E+08	1.4E+06	6.8E+05
16	6.5E+05	4.1E+05	1.0E+07	5.2E+05	5.3E+06	5.7E+04	3.6E+05	5.5E+05	7.6E+05	1.2E+06	4.9E+05	3.0E+05
17	9.5E+05	2.4E+06	1.1E+07	5.0E+05	9.1E+06	8.8E+04	3.9E+05	1.5E+05	6.6E+05	4.0E+05	6.0E+05	8.4E+05
18	8.4E+05	5.4E+06	1.3E+06	1.4E+06	3.1E+06	3.0E+05	7.0E+05	3.2E+05	2.9E+06	1.4E+06	6.1E+05	1.1E+05
19	5.9E+05	4.3E+06	2.1E+05	1.2E+05	6.5E+05	1.2E+05	8.5E+05	5.8E+05	1.7E+06	8.4E+05	3.3E+05	3.8E+05
20	2.3E+05	1.5E+06	2.2E+05	1.3E+05	8.7E+05	1.9E+05	5.9E+05	5.1E+05	1.3E+06	2.5E+05	3.1E+05	2.4E+05
21	1.1E+05	1.0E+06	5.4E+05	5.4E+05	1.8E+06	3.6E+05	2.1E+05	1.0E+06	1.3E+06	3.6E+05	1.2E+05	3.1E+05
22	1.3E+05	7.6E+05	1.8E+05	3.5E+05	2.3E+07	1.7E+05	1.3E+05	–	4.0E+05	4.1E+05	1.7E+05	2.7E+06
23	1.6E+05	8.8E+05	2.4E+05	2.7E+05	1.1E+06	6.6E+04	9.3E+05	5.7E+05	2.4E+05	2.3E+05	6.1E+05	2.1E+06
24	2.5E+05	7.1E+05	3.8E+05	1.4E+05	1.9E+06	6.1E+05	2.8E+05	5.7E+05	3.7E+05	2.7E+05	9.8E+05	9.0E+05
25	1.9E+05	1.6E+06	1.8E+05	1.2E+05	2.0E+06	2.3E+06	3.0E+05	9.4E+05	3.7E+05	3.4E+05	2.7E+05	1.0E+06
26	1.7E+06	4.4E+07	2.1E+05	1.0E+05	6.8E+05	5.0E+07	2.6E+05	6.0E+05	3.5E+05	2.4E+05	2.1E+05	1.2E+06
27	3.6E+05	9.3E+06	1.2E+05	9.7E+04	5.3E+05	3.0E+07	4.7E+05	4.4E+05	5.0E+05	7.6E+05	3.7E+05	2.8E+06
28	4.5E+04	6.1E+06	2.5E+05	7.8E+04	9.6E+05	1.2E+07	9.5E+04	3.3E+05	1.3E+06	3.0E+05	4.6E+05	7.3E+05
29	4.5E+04	1.3E+07	6.0E+05	7.7E+04	3.9E+05	1.9E+07	7.6E+04	1.2E+05	2.2E+06	3.5E+05	2.9E+06	3.1E+05
30	1.1E+05		6.2E+04	4.9E+04	4.7E+05	6.1E+06	7.4E+04	6.4E+05	4.0E+06	1.3E+07	2.5E+06	2.5E+05
31	8.6E+04		1.0E+05		6.6E+05		4.3E+05	5.8E+05		2.9E+08		5.2E+05

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GOES7 >10 MeV Proton Fluence - 1992

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.2E+04	8.9E+03	1.5E+04	1.5E+04	9.4E+03	1.1E+04	1.5E+05	1.2E+04	1.8E+04	1.3E+04	3.9E+07	1.8E+04
2	1.0E+04	7.2E+03	1.3E+04	1.5E+04	1.0E+04	1.0E+04	2.6E+04	1.2E+04	1.7E+04	1.4E+04	4.7E+07	1.3E+04
3	7.9E+03	6.3E+03	1.3E+04	1.2E+04	9.9E+03	1.1E+04	1.8E+04	1.2E+04	1.7E+04	1.3E+04	1.7E+07	1.2E+04
4	4.3E+04	6.5E+03	1.2E+04	9.6E+03	1.1E+04	1.1E+04	1.6E+04	3.5E+04	1.6E+04	1.4E+04	2.7E+06	1.2E+04
5	4.2E+04	7.7E+03	1.4E+04	1.0E+04	9.7E+03	1.1E+04	1.4E+04	5.9E+04	1.3E+04	1.5E+04	1.0E+06	1.1E+04
6	2.2E+04	2.2E+04	1.6E+04	1.0E+04	1.1E+04	1.2E+04	1.4E+04	4.3E+05	1.3E+04	1.5E+04	5.6E+05	1.0E+04
7	1.2E+04	2.4E+06	4.5E+04	1.0E+04	1.1E+04	1.2E+04	1.1E+04	1.4E+05	1.6E+04	1.3E+04	2.8E+05	1.1E+04
8	9.3E+03	1.4E+06	--	1.0E+04	1.4E+04	1.2E+04	1.1E+04	3.2E+04	2.0E+04	1.2E+04	7.6E+04	9.4E+03
9	7.4E+03	6.5E+04	6.5E+04	9.7E+03	3.5E+07	1.2E+04	1.2E+04	1.4E+04	1.8E+04	1.0E+04	3.6E+04	1.0E+04
10	7.7E+03	1.6E+04	5.5E+04	9.6E+03	1.7E+07	1.2E+04	1.2E+04	1.1E+04	1.2E+04	1.0E+04	2.1E+04	1.0E+04
11	8.7E+03	9.8E+03	5.1E+04	9.6E+03	7.0E+05	1.1E+04	1.2E+04	1.0E+04	1.2E+04	1.0E+04	1.1E+04	1.0E+04
12	7.9E+03	9.6E+03	3.4E+04	8.2E+03	1.6E+05	1.1E+04	1.1E+04	1.1E+04	1.1E+04	9.7E+03	1.0E+04	1.1E+04
13	6.8E+03	1.2E+04	2.4E+04	7.9E+03	9.4E+04	1.1E+04	1.0E+04	1.1E+04	1.3E+04	9.6E+03	9.9E+03	9.6E+03
14	7.3E+03	9.2E+03	1.8E+04	8.0E+03	2.2E+04	1.1E+04	1.0E+04	1.0E+04	1.4E+04	9.6E+03	1.0E+04	1.1E+04
15	7.6E+03	9.6E+03	1.3E+05	8.2E+03	1.5E+04	1.2E+04	1.1E+04	--	1.4E+04	9.0E+03	1.0E+04	1.1E+04
16	7.6E+03	1.2E+04	4.4E+05	8.8E+03	1.4E+04	1.3E+04	1.1E+04	1.2E+04	1.5E+04	8.7E+03	9.2E+03	1.1E+04
17	7.9E+03	5.0E+04	1.5E+05	8.9E+03	1.5E+04	1.1E+04	1.1E+04	1.2E+04	1.4E+04	9.2E+03	1.0E+04	9.9E+03
18	8.6E+03	2.7E+04	2.5E+04	9.9E+03	1.5E+04	1.2E+04	1.4E+04	1.2E+04	1.5E+04	9.1E+03	1.1E+04	9.5E+03
19	8.7E+03	1.6E+04	1.6E+04	1.0E+04	1.7E+04	1.1E+04	1.2E+04	1.1E+04	1.8E+04	9.7E+03	1.1E+04	9.9E+03
20	8.2E+03	1.1E+04	1.5E+04	1.2E+04	2.8E+04	1.1E+04	1.3E+04	1.1E+04	1.7E+04	1.1E+04	1.0E+04	1.0E+04
21	8.5E+03	8.5E+03	1.5E+04	4.6E+04	2.2E+04	1.1E+04	1.2E+04	1.3E+04	1.6E+04	9.6E+03	1.1E+04	1.0E+04
22	8.8E+03	1.3E+04	1.7E+04	1.7E+04	4.3E+04	1.1E+04	1.2E+04	--	1.6E+04	1.0E+04	1.1E+04	1.0E+04
23	1.1E+04	9.7E+03	1.7E+04	1.3E+04	1.3E+04	1.1E+04	1.1E+04	1.0E+04	2.0E+04	1.0E+04	2.1E+04	1.1E+04
24	1.0E+04	9.3E+03	1.4E+04	1.2E+04	9.6E+04	1.1E+04	1.1E+04	1.1E+04	1.6E+04	1.0E+04	4.9E+04	1.1E+04
25	1.1E+04	1.1E+04	1.3E+04	1.0E+04	3.3E+04	7.1E+05	1.1E+04	1.1E+04	1.7E+04	1.0E+04	1.0E+04	1.1E+04
26	1.4E+04	5.7E+04	1.3E+04	9.9E+03	1.5E+04	1.6E+07	1.2E+04	1.2E+04	1.7E+04	1.0E+04	9.5E+03	1.2E+04
27	1.0E+04	1.6E+05	1.3E+04	9.5E+03	1.4E+04	3.9E+06	1.2E+04	1.5E+04	1.4E+04	1.0E+04	1.0E+04	1.1E+04
28	8.9E+03	6.8E+04	1.3E+04	9.7E+03	1.0E+04	1.1E+06	1.1E+04	1.5E+04	1.5E+04	9.8E+03	1.0E+04	1.0E+04
29	9.4E+03	2.6E+04	1.3E+04	1.0E+04	9.8E+03	1.1E+06	1.1E+04	1.5E+04	1.3E+04	1.2E+04	1.7E+05	1.1E+04
30	8.9E+03		1.3E+04	9.5E+03	1.0E+04	2.4E+05	1.2E+04	1.5E+04	1.3E+04	8.9E+06	5.3E+04	9.4E+03
31	8.9E+03		1.3E+04		1.0E+04		1.1E+04	1.7E+04		1.6E+08		1.1E+04

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 >100 MeV Proton Fluence - 1992

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.5E+03	1.9E+03	2.4E+03	2.9E+03	2.1E+03	2.2E+03	2.3E+03	2.6E+03	5.3E+03	2.8E+03	1.2E+04	2.8E+03
2	1.2E+03	1.4E+03	2.6E+03	2.7E+03	2.0E+03	2.3E+03	2.5E+03	2.7E+03	5.3E+03	3.0E+03	2.7E+06	3.1E+03
3	1.4E+03	1.1E+03	3.4E+03	2.6E+03	2.0E+03	2.2E+03	2.6E+03	2.7E+03	4.9E+03	3.3E+03	2.1E+05	3.0E+03
4	2.2E+03	1.2E+03	3.4E+03	2.0E+03	1.9E+03	2.4E+03	2.7E+03	2.6E+03	4.1E+03	3.2E+03	1.5E+04	3.4E+03
5	1.7E+03	1.2E+03	3.6E+03	1.9E+03	2.1E+03	2.4E+03	2.8E+03	2.2E+03	2.7E+03	3.5E+03	4.0E+03	2.9E+03
6	1.5E+03	1.9E+03	4.6E+03	2.2E+03	2.2E+03	2.6E+03	2.9E+03	2.2E+03	2.3E+03	2.8E+03	3.0E+03	2.5E+03
7	1.4E+03	1.8E+03	1.8E+04	2.1E+03	1.8E+03	2.4E+03	2.7E+03	2.1E+03	2.3E+03	2.5E+03	2.3E+03	2.5E+03
8	1.4E+03	1.3E+03	--	2.0E+03	3.1E+03	2.4E+03	2.5E+03	2.0E+03	2.3E+03	2.4E+03	1.8E+03	2.2E+03
9	1.4E+03	1.1E+03	1.3E+04	2.0E+03	1.7E+04	2.4E+03	2.5E+03	2.0E+03	1.8E+03	1.9E+03	1.8E+03	2.2E+03
10	1.3E+03	1.5E+03	9.6E+03	2.1E+03	2.2E+03	2.6E+03	2.6E+03	1.9E+03	1.8E+03	2.0E+03	1.7E+03	2.3E+03
11	1.3E+03	1.3E+03	7.5E+03	2.2E+03	1.7E+03	2.3E+03	2.7E+03	2.0E+03	1.9E+03	1.9E+03	1.4E+03	2.3E+03
12	1.3E+03	1.7E+03	7.0E+03	1.8E+03	1.8E+03	2.5E+03	2.4E+03	2.1E+03	1.9E+03	2.0E+03	1.5E+03	2.1E+03
13	1.2E+03	3.2E+03	6.3E+03	1.6E+03	1.7E+03	2.5E+03	2.1E+03	2.4E+03	2.1E+03	1.8E+03	1.6E+03	2.1E+03
14	1.3E+03	2.4E+03	4.1E+03	1.8E+03	2.1E+03	2.7E+03	2.2E+03	2.1E+03	2.1E+03	1.9E+03	1.6E+03	2.4E+03
15	1.5E+03	2.6E+03	1.1E+04	1.8E+03	3.4E+03	2.9E+03	2.3E+03	--	2.3E+03	1.6E+03	1.4E+03	2.4E+03
16	1.5E+03	3.6E+03	8.8E+03	1.8E+03	3.8E+03	2.9E+03	2.7E+03	2.7E+03	3.6E+03	1.6E+03	1.8E+03	2.4E+03
17	1.5E+03	2.7E+03	5.2E+03	2.0E+03	4.4E+03	2.4E+03	2.5E+03	2.6E+03	3.3E+03	1.8E+03	2.0E+03	2.0E+03
18	1.6E+03	2.5E+03	2.8E+03	2.0E+03	5.3E+03	2.4E+03	2.6E+03	2.3E+03	3.7E+03	1.9E+03	1.9E+03	2.0E+03
19	1.6E+03	2.4E+03	3.2E+03	2.4E+03	5.2E+03	2.4E+03	2.7E+03	2.5E+03	4.9E+03	2.0E+03	2.0E+03	2.1E+03
20	1.5E+03	2.1E+03	3.7E+03	2.5E+03	5.5E+03	2.3E+03	2.6E+03	2.4E+03	4.9E+03	2.0E+03	2.2E+03	2.0E+03
21	1.7E+03	2.0E+03	3.8E+03	2.4E+03	5.7E+03	2.2E+03	2.6E+03	2.4E+03	4.4E+03	2.1E+03	2.3E+03	2.2E+03
22	2.0E+03	2.0E+03	4.1E+03	2.3E+03	4.8E+03	2.3E+03	2.5E+03	--	4.5E+03	2.3E+03	2.1E+03	2.1E+03
23	2.4E+03	2.1E+03	4.5E+03	2.4E+03	4.2E+03	2.1E+03	2.2E+03	1.8E+03	8.2E+03	2.1E+03	2.3E+03	2.0E+03
24	2.7E+03	2.1E+03	4.2E+03	2.2E+03	4.3E+03	2.3E+03	2.3E+03	2.1E+03	4.7E+03	2.2E+03	2.5E+03	2.2E+03
25	2.7E+03	2.3E+03	3.0E+03	2.1E+03	4.9E+03	9.3E+04	2.5E+03	2.4E+03	5.0E+03	2.3E+03	2.0E+03	2.2E+03
26	2.3E+03	2.8E+03	2.9E+03	2.1E+03	4.3E+03	1.3E+05	2.6E+03	3.1E+03	4.3E+03	2.3E+03	2.0E+03	2.5E+03
27	2.3E+03	1.8E+03	2.9E+03	2.0E+03	4.3E+03	1.0E+04	2.5E+03	3.7E+03	3.1E+03	2.1E+03	2.4E+03	2.4E+03
28	2.1E+03	2.1E+03	2.9E+03	2.0E+03	2.4E+03	6.0E+03	2.5E+03	4.2E+03	3.2E+03	1.8E+03	2.6E+03	2.3E+03
29	2.1E+03	2.5E+03	3.0E+03	2.0E+03	2.1E+03	3.6E+03	2.4E+03	4.0E+03	2.8E+03	2.0E+03	3.2E+03	2.1E+03
30	2.1E+03		3.1E+03	1.9E+03	2.1E+03	2.4E+03	2.6E+03	4.2E+03	2.7E+03	8.0E+04	2.7E+03	1.9E+03
31	1.8E+03		3.1E+03		2.2E+03		2.4E+03	4.9E+03		3.4E+05		2.2E+03

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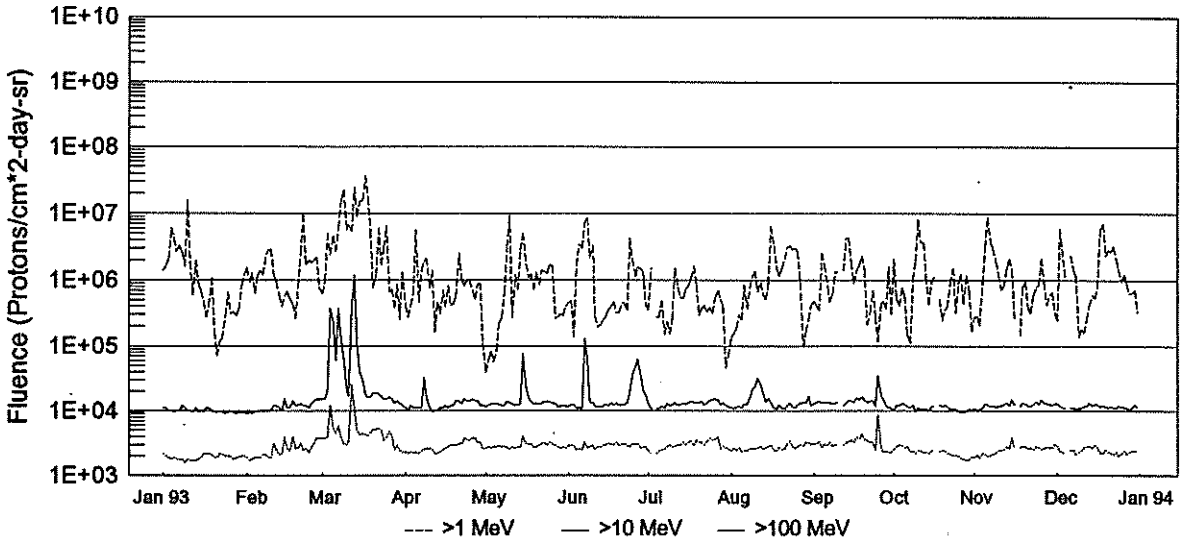
GOES7 Daily Proton Fluences - 1993



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.4E+06	1.5E+06	6.2E+05	4.1E+05	4.0E+04	4.5E+05	3.5E+05	1.4E+05	4.8E+05	2.1E+06	2.8E+05	2.5E+05
2	1.6E+06	9.4E+05	9.7E+05	2.7E+05	6.0E+04	4.8E+05	1.6E+06	1.5E+05	4.0E+05	5.4E+05	2.1E+05	6.0E+06
3	2.1E+06	1.3E+06	5.0E+06	4.1E+05	8.3E+04	1.3E+05	--	1.9E+05	3.5E+05	4.1E+05	9.1E+05	2.1E+06
4	6.1E+06	6.2E+05	2.4E+06	6.3E+05	5.7E+04	1.7E+06	2.8E+05	3.0E+05	2.6E+06	7.6E+05	3.1E+06	9.7E+05
5	4.2E+06	1.2E+06	4.6E+06	5.8E+06	8.5E+04	3.5E+06	2.7E+05	2.5E+05	1.7E+06	5.7E+05	8.8E+06	--
6	2.7E+06	1.4E+06	2.7E+06	4.6E+05	2.1E+05	3.0E+06	4.9E+05	8.5E+05	7.8E+05	1.5E+05	3.9E+06	2.3E+06
7	3.3E+06	1.2E+06	6.2E+06	1.4E+06	2.8E+05	7.6E+06	1.5E+05	3.6E+05	4.7E+05	1.1E+05	3.1E+06	1.3E+06
8	2.6E+06	2.4E+06	1.6E+07	1.9E+06	6.4E+05	8.7E+06	2.3E+05	7.6E+05	6.2E+05	1.0E+06	1.9E+06	1.2E+06
9	1.6E+06	2.8E+06	2.2E+07	2.1E+06	3.2E+06	2.2E+06	1.5E+05	1.2E+06	1.3E+06	2.0E+06	1.2E+06	1.4E+05
10	1.6E+07	2.9E+06	5.7E+06	7.5E+05	9.3E+06	3.3E+06	2.6E+05	1.4E+06	1.3E+06	8.2E+06	7.1E+05	1.8E+05
11	1.8E+06	1.2E+06	6.9E+06	1.4E+06	2.7E+05	2.9E+05	1.5E+06	6.7E+05	--	3.8E+06	8.0E+05	1.6E+05
12	6.0E+05	9.5E+05	5.3E+06	1.6E+05	1.2E+06	1.9E+05	7.7E+05	9.1E+05	1.4E+06	3.6E+06	1.5E+06	2.5E+05
13	2.0E+06	5.8E+05	2.5E+07	4.6E+05	7.2E+05	2.1E+05	5.4E+05	5.8E+05	4.3E+06	1.1E+06	2.1E+06	4.1E+05
14	8.8E+05	4.0E+05	8.9E+06	3.1E+05	2.9E+06	2.5E+05	5.3E+05	5.1E+05	4.3E+06	4.3E+05	1.4E+06	6.0E+05
15	6.8E+05	5.7E+05	1.5E+07	7.0E+05	5.1E+06	2.8E+05	7.1E+05	8.9E+05	1.9E+06	9.4E+05	2.5E+05	5.3E+05
16	4.7E+05	6.6E+05	1.6E+07	3.9E+05	1.7E+06	3.6E+05	8.5E+05	6.4E+06	8.9E+05	1.1E+06	--	7.9E+05
17	2.7E+05	5.4E+05	3.6E+07	8.2E+05	1.1E+06	4.0E+05	1.0E+06	3.3E+06	1.5E+06	--	1.4E+05	5.7E+06
18	4.1E+05	4.3E+05	1.7E+07	4.1E+05	1.3E+06	4.6E+05	1.6E+06	1.5E+06	1.7E+06	5.1E+05	7.6E+05	7.1E+06
19	1.1E+06	2.6E+05	5.3E+06	4.4E+05	7.1E+05	3.2E+05	8.4E+05	1.2E+06	2.3E+06	2.4E+05	9.4E+05	2.4E+06
20	1.6E+05	7.9E+05	7.4E+05	5.7E+05	1.3E+06	3.2E+05	2.9E+05	1.5E+06	1.4E+06	3.5E+05	3.7E+05	2.9E+06
21	7.0E+04	2.6E+06	1.2E+06	2.5E+06	8.6E+05	4.5E+05	3.7E+05	2.1E+06	2.0E+05	3.9E+05	3.1E+05	2.7E+06
22	1.2E+05	9.5E+06	6.1E+06	9.9E+05	1.4E+06	4.4E+05	4.1E+05	3.1E+06	3.2E+05	8.8E+05	5.7E+05	3.2E+06
23	1.3E+05	1.7E+06	1.7E+06	8.1E+05	1.3E+06	3.6E+05	3.3E+05	3.3E+06	6.9E+05	1.5E+06	7.9E+05	2.0E+06
24	2.9E+05	2.0E+06	3.1E+06	1.0E+06	1.3E+06	4.3E+06	3.8E+05	2.9E+06	2.8E+05	3.2E+05	8.6E+05	1.5E+06
25	6.5E+05	1.8E+06	6.5E+06	1.0E+06	1.7E+06	2.1E+06	3.2E+05	3.1E+06	1.2E+05	8.8E+05	2.1E+06	9.5E+05
26	3.1E+05	2.0E+06	6.5E+05	6.9E+05	1.6E+06	1.1E+06	5.3E+05	2.7E+06	4.3E+05	1.2E+06	9.2E+05	1.2E+06
27	3.3E+05	2.2E+06	7.2E+05	5.2E+05	2.6E+05	1.6E+06	7.0E+05	9.1E+05	4.8E+05	4.4E+05	4.2E+05	9.0E+05
28	2.9E+05	7.5E+05	3.8E+05	8.7E+05	2.8E+05	1.5E+06	5.1E+05	9.7E+04	3.7E+05	1.2E+06	6.0E+05	6.3E+05
29	3.6E+05		8.6E+05	9.0E+05	3.1E+05	1.3E+06	4.0E+05	1.6E+05	1.6E+06	6.7E+05	6.6E+05	6.6E+05
30	8.3E+05		2.5E+05	1.1E+05	2.9E+05	4.3E+05	4.5E+04	2.5E+05	3.0E+05	1.7E+05	3.1E+05	7.0E+05
31	1.2E+06		1.3E+06		4.0E+05		7.2E+04	4.2E+05		2.7E+05		3.1E+05

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GOES7 >10 MeV Proton Fluence - 1993

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.1E+04	8.9E+03	1.5E+04	1.1E+04	1.2E+04	1.2E+04	1.3E+04	1.1E+04	1.3E+04	1.0E+04	1.0E+04	1.3E+04
2	1.1E+04	9.4E+03	1.5E+04	9.9E+03	1.2E+04	1.2E+04	1.0E+04	1.1E+04	1.4E+04	1.2E+04	1.0E+04	1.2E+04
3	9.8E+03	9.0E+03	2.1E+04	1.2E+04	1.3E+04	1.2E+04	--	1.1E+04	1.4E+04	1.2E+04	1.1E+04	1.1E+04
4	9.8E+03	9.8E+03	3.8E+05	1.1E+04	1.3E+04	1.1E+04	1.1E+04	1.1E+04	1.3E+04	1.3E+04	1.3E+04	1.1E+04
5	9.7E+03	9.7E+03	2.3E+05	1.1E+04	1.3E+04	1.1E+04	1.1E+04	1.1E+04	1.4E+04	1.2E+04	1.2E+04	--
6	9.9E+03	1.0E+04	6.0E+04	1.1E+04	1.3E+04	1.1E+04	1.2E+04	1.3E+04	1.3E+04	1.1E+04	1.1E+04	1.1E+04
7	9.9E+03	1.0E+04	3.8E+05	1.1E+04	1.2E+04	1.3E+05	1.1E+04	1.3E+04	1.3E+04	1.1E+04	1.2E+04	1.1E+04
8	1.2E+04	1.0E+04	1.3E+05	3.3E+04	1.2E+04	6.2E+04	1.3E+04	1.6E+04	1.3E+04	1.2E+04	1.1E+04	1.1E+04
9	1.1E+04	9.9E+03	6.8E+04	1.6E+04	1.4E+04	1.4E+04	1.2E+04	2.1E+04	1.3E+04	9.6E+03	1.1E+04	1.1E+04
10	1.0E+04	1.0E+04	2.1E+04	1.1E+04	1.3E+04	1.3E+04	1.2E+04	2.4E+04	1.4E+04	1.1E+04	1.2E+04	1.1E+04
11	9.9E+03	1.2E+04	1.7E+04	9.7E+03	1.3E+04	1.2E+04	1.3E+04	3.2E+04	--	1.0E+04	1.2E+04	1.1E+04
12	9.6E+03	1.2E+04	4.1E+05	1.0E+04	1.2E+04	1.1E+04	1.2E+04	2.5E+04	1.2E+04	1.1E+04	1.3E+04	1.2E+04
13	1.1E+04	1.1E+04	1.2E+06	9.8E+03	1.2E+04	1.2E+04	1.2E+04	1.8E+04	1.3E+04	1.0E+04	1.2E+04	1.3E+04
14	9.7E+03	1.0E+04	1.1E+05	1.1E+04	1.3E+04	1.2E+04	1.3E+04	1.4E+04	1.4E+04	1.0E+04	1.5E+04	1.2E+04
15	1.0E+04	1.5E+04	4.1E+04	1.1E+04	7.6E+04	1.3E+04	1.3E+04	1.5E+04	1.4E+04	1.2E+04	1.2E+04	1.3E+04
16	9.7E+03	1.1E+04	2.9E+04	1.2E+04	2.3E+04	1.2E+04	1.3E+04	1.3E+04	1.3E+04	1.1E+04	--	1.2E+04
17	1.1E+04	1.1E+04	1.8E+04	1.1E+04	1.6E+04	1.3E+04	1.4E+04	1.1E+04	1.6E+04	--	1.2E+04	1.2E+04
18	1.1E+04	1.4E+04	1.6E+04	1.2E+04	1.4E+04	1.2E+04	1.4E+04	1.1E+04	1.5E+04	1.2E+04	1.3E+04	1.2E+04
19	1.0E+04	1.2E+04	1.6E+04	1.2E+04	1.3E+04	1.3E+04	1.3E+04	1.2E+04	1.7E+04	1.2E+04	1.3E+04	1.2E+04
20	9.4E+03	1.2E+04	1.9E+04	1.4E+04	1.3E+04	1.2E+04	1.3E+04	1.1E+04	1.5E+04	1.2E+04	1.2E+04	1.1E+04
21	9.6E+03	1.3E+04	1.9E+04	1.4E+04	1.3E+04	1.2E+04	1.4E+04	1.1E+04	1.4E+04	1.1E+04	1.2E+04	1.2E+04
22	1.0E+04	1.2E+04	1.8E+04	1.3E+04	1.3E+04	1.2E+04	1.2E+04	1.2E+04	1.4E+04	1.1E+04	1.2E+04	1.1E+04
23	9.4E+03	1.2E+04	1.7E+04	1.5E+04	1.4E+04	1.3E+04	1.3E+04	1.3E+04	1.4E+04	1.1E+04	1.4E+04	1.1E+04
24	9.1E+03	1.1E+04	1.5E+04	1.4E+04	1.4E+04	2.0E+04	1.5E+04	1.1E+04	1.2E+04	1.0E+04	1.2E+04	1.2E+04
25	9.5E+03	1.3E+04	1.5E+04	1.4E+04	1.4E+04	3.6E+04	1.5E+04	1.1E+04	3.5E+04	1.0E+04	1.5E+04	1.1E+04
26	1.0E+04	1.4E+04	1.6E+04	1.5E+04	1.3E+04	4.9E+04	1.5E+04	1.2E+04	1.7E+04	9.3E+03	1.3E+04	1.1E+04
27	9.4E+03	1.5E+04	1.5E+04	1.4E+04	1.3E+04	6.3E+04	1.5E+04	1.3E+04	1.5E+04	9.7E+03	1.3E+04	1.1E+04
28	9.1E+03	1.5E+04	1.3E+04	1.4E+04	1.1E+04	3.6E+04	1.2E+04	1.3E+04	1.2E+04	9.7E+03	1.2E+04	1.0E+04
29	9.6E+03		1.4E+04	1.2E+04	1.2E+04	2.1E+04	1.3E+04	1.3E+04	1.1E+04	1.1E+04	1.2E+04	1.1E+04
30	9.6E+03		1.3E+04	1.2E+04	1.2E+04	1.8E+04	1.2E+04	1.7E+04	1.1E+04	1.0E+04	1.3E+04	1.2E+04
31	9.6E+03		1.2E+04		1.2E+04		1.1E+04	1.2E+04		1.1E+04		1.1E+04

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GOES7 >100 MeV Proton Fluence - 1993

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.2E+03	1.9E+03	3.7E+03	2.3E+03	2.6E+03	2.9E+03	2.4E+03	2.4E+03	3.2E+03	2.5E+03	2.1E+03	2.9E+03
2	2.0E+03	1.7E+03	3.8E+03	2.2E+03	2.7E+03	2.9E+03	2.1E+03	2.6E+03	3.1E+03	2.8E+03	1.9E+03	2.4E+03
3	1.9E+03	1.8E+03	3.9E+03	2.3E+03	2.7E+03	2.8E+03	--	2.4E+03	3.3E+03	3.0E+03	2.2E+03	2.3E+03
4	1.8E+03	1.9E+03	1.2E+04	2.2E+03	2.8E+03	2.5E+03	2.2E+03	2.7E+03	2.7E+03	2.9E+03	2.1E+03	2.2E+03
5	1.9E+03	1.9E+03	5.3E+03	2.3E+03	2.8E+03	2.6E+03	2.4E+03	2.3E+03	3.1E+03	2.7E+03	2.0E+03	--
6	1.8E+03	1.9E+03	4.6E+03	2.2E+03	2.9E+03	2.5E+03	2.5E+03	2.4E+03	2.9E+03	2.8E+03	2.0E+03	2.4E+03
7	1.8E+03	2.1E+03	5.7E+03	2.4E+03	2.8E+03	3.3E+03	2.6E+03	2.4E+03	3.3E+03	2.3E+03	2.1E+03	2.5E+03
8	1.8E+03	2.1E+03	3.9E+03	2.5E+03	2.8E+03	2.7E+03	2.8E+03	2.6E+03	2.8E+03	2.4E+03	2.2E+03	2.1E+03
9	1.6E+03	1.9E+03	3.1E+03	2.6E+03	2.8E+03	2.8E+03	2.9E+03	2.6E+03	3.0E+03	2.2E+03	2.4E+03	2.3E+03
10	1.8E+03	1.9E+03	3.0E+03	2.6E+03	2.6E+03	2.9E+03	2.8E+03	2.6E+03	3.1E+03	2.4E+03	2.5E+03	2.5E+03
11	1.7E+03	3.1E+03	3.4E+03	2.5E+03	2.7E+03	2.6E+03	2.9E+03	2.7E+03	--	2.4E+03	2.5E+03	2.8E+03
12	1.7E+03	2.5E+03	2.5E+04	2.2E+03	2.6E+03	2.8E+03	2.9E+03	2.8E+03	3.0E+03	2.2E+03	2.8E+03	2.8E+03
13	1.7E+03	2.1E+03	1.1E+04	2.2E+03	2.8E+03	2.7E+03	3.0E+03	2.6E+03	3.2E+03	2.3E+03	2.6E+03	2.8E+03
14	1.8E+03	2.2E+03	5.1E+03	2.3E+03	2.8E+03	2.9E+03	3.3E+03	2.7E+03	3.3E+03	2.2E+03	3.8E+03	2.7E+03
15	1.9E+03	3.9E+03	4.3E+03	2.5E+03	4.1E+03	3.0E+03	3.0E+03	2.8E+03	3.5E+03	2.4E+03	2.7E+03	3.0E+03
16	2.2E+03	2.6E+03	4.4E+03	2.6E+03	3.1E+03	3.1E+03	3.3E+03	2.9E+03	3.3E+03	2.4E+03	--	2.8E+03
17	2.2E+03	2.4E+03	4.3E+03	2.8E+03	3.1E+03	3.0E+03	3.4E+03	2.4E+03	3.9E+03	--	2.8E+03	2.3E+03
18	2.2E+03	4.0E+03	4.1E+03	2.9E+03	3.1E+03	3.0E+03	3.0E+03	2.4E+03	3.8E+03	2.4E+03	2.8E+03	2.2E+03
19	2.1E+03	2.6E+03	4.6E+03	3.0E+03	2.8E+03	3.3E+03	3.5E+03	2.8E+03	4.4E+03	2.5E+03	2.8E+03	2.5E+03
20	1.9E+03	2.7E+03	5.1E+03	2.9E+03	2.8E+03	2.9E+03	3.3E+03	2.5E+03	3.6E+03	2.4E+03	2.6E+03	2.3E+03
21	1.9E+03	3.1E+03	5.1E+03	3.1E+03	3.0E+03	3.1E+03	3.2E+03	2.6E+03	3.5E+03	2.2E+03	2.7E+03	2.2E+03
22	2.2E+03	2.5E+03	5.3E+03	3.1E+03	3.1E+03	3.1E+03	3.0E+03	3.0E+03	3.3E+03	2.2E+03	2.5E+03	2.1E+03
23	2.1E+03	2.6E+03	5.0E+03	3.7E+03	3.2E+03	2.9E+03	3.4E+03	3.4E+03	3.3E+03	2.0E+03	2.8E+03	2.3E+03
24	2.0E+03	2.3E+03	3.5E+03	3.6E+03	3.0E+03	2.8E+03	3.7E+03	2.8E+03	2.5E+03	2.1E+03	2.8E+03	2.0E+03
25	2.0E+03	2.8E+03	3.9E+03	3.5E+03	3.3E+03	3.1E+03	3.6E+03	2.6E+03	8.6E+03	2.0E+03	2.5E+03	2.2E+03
26	2.0E+03	3.2E+03	4.8E+03	3.8E+03	3.1E+03	3.1E+03	3.7E+03	2.8E+03	2.7E+03	1.8E+03	2.6E+03	2.4E+03
27	1.8E+03	3.8E+03	3.9E+03	3.8E+03	2.9E+03	3.1E+03	3.9E+03	3.0E+03	2.4E+03	1.8E+03	2.8E+03	2.2E+03
28	1.9E+03	3.8E+03	2.5E+03	3.3E+03	2.7E+03	2.7E+03	2.6E+03	2.9E+03	2.4E+03	1.8E+03	2.7E+03	2.3E+03
29	1.9E+03		2.9E+03	3.3E+03	2.6E+03	2.7E+03	2.9E+03	3.3E+03	2.3E+03	1.8E+03	2.7E+03	2.4E+03
30	2.0E+03		2.4E+03	2.6E+03	2.7E+03	2.8E+03	2.7E+03	3.2E+03	2.3E+03	1.9E+03	3.1E+03	2.4E+03
31	2.0E+03		2.3E+03		2.6E+03		2.6E+03	3.1E+03		1.9E+03		2.4E+03

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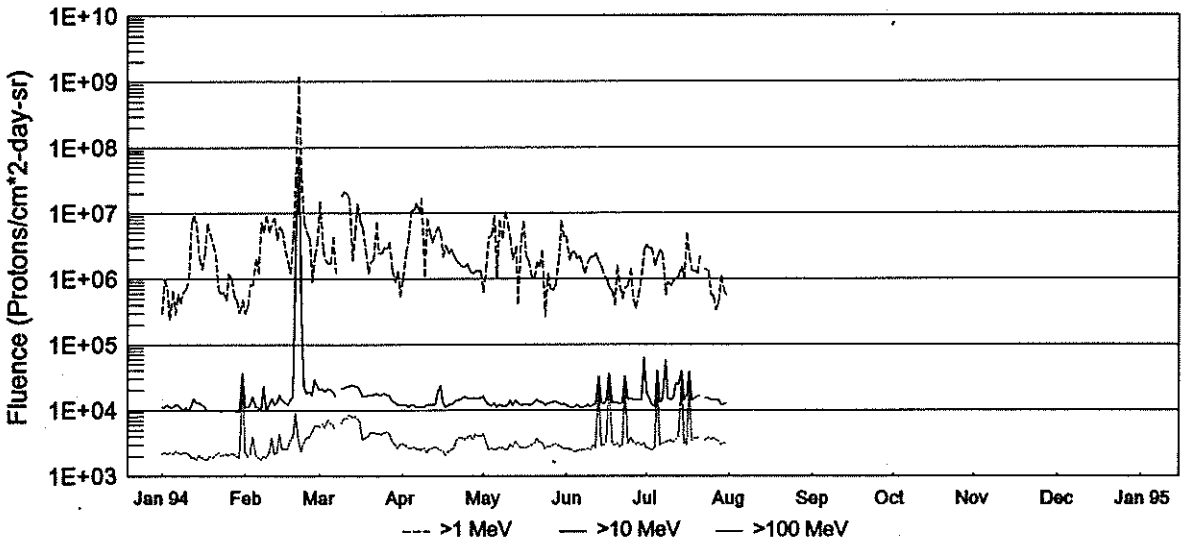
GOES7 Daily Proton Fluences - 1994



>1 MeV Proton Fluence

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.0E+05	3.0E+05	1.5E+07	9.9E+05	6.3E+05	4.4E+06	3.3E+06					
2	1.0E+06	3.8E+05	2.8E+06	2.4E+06	1.4E+06	1.9E+06	2.9E+06					
3	6.9E+05	8.2E+05	2.0E+06	4.2E+06	4.2E+06	2.5E+06	2.9E+06					
4	2.4E+05	8.0E+05	1.7E+06	1.1E+07	4.6E+06	2.5E+06	1.6E+06					
5	6.5E+05	2.0E+06	1.7E+06	1.1E+07	9.2E+06	2.0E+06	2.1E+06					
6	2.9E+05	1.2E+06	4.3E+06	1.4E+07	1.0E+06	2.2E+06	2.7E+06					
7	5.8E+05	7.2E+06	1.2E+06	9.7E+06	7.7E+06	1.6E+06	2.4E+06					
8	4.3E+05	5.1E+06	--	1.7E+07	4.1E+06	1.2E+06	5.6E+05					
9	6.2E+05	9.2E+06	1.8E+07	1.1E+06	1.0E+07	1.8E+06	9.0E+05					
10	6.8E+05	5.1E+06	2.1E+07	8.3E+06	6.9E+06	2.1E+06	7.8E+05					
11	9.7E+05	7.5E+06	2.0E+07	5.0E+06	4.1E+06	2.1E+06	9.3E+05					
12	6.9E+06	8.4E+06	1.7E+07	3.6E+06	1.9E+06	2.4E+06	1.0E+06					
13	9.2E+06	3.9E+06	1.9E+06	5.0E+06	3.1E+06	1.8E+06	1.1E+06					
14	6.6E+06	6.2E+06	5.1E+06	6.1E+06	4.2E+05	1.5E+06	1.5E+06					
15	2.1E+06	5.5E+06	1.4E+07	4.9E+06	3.8E+06	1.1E+06	9.5E+05					
16	1.4E+06	2.7E+06	7.6E+06	2.1E+06	7.5E+06	1.0E+06	4.8E+06					
17	2.5E+06	1.8E+06	5.9E+06	3.2E+06	2.2E+06	7.4E+05	2.2E+06					
18	7.0E+06	1.2E+06	2.6E+06	2.4E+06	1.9E+06	6.5E+05	1.3E+06					
19	4.9E+06	4.2E+06	1.2E+06	2.8E+06	1.0E+06	3.9E+05	1.3E+06					
20	3.4E+06	2.8E+07	1.8E+06	2.2E+06	1.0E+06	1.6E+06	1.2E+06					
21	2.3E+06	1.2E+09	2.0E+06	1.9E+06	1.8E+06	7.6E+05	2.4E+06					
22	7.1E+05	3.8E+07	7.1E+06	1.7E+06	1.5E+06	4.9E+05	--					
23	6.0E+05	7.3E+06	2.4E+06	1.5E+06	2.6E+06	7.3E+05	1.4E+06					
24	6.2E+05	5.2E+06	2.4E+06	1.5E+06	2.6E+05	7.9E+05	1.3E+06					
25	4.8E+05	4.0E+06	3.0E+06	1.7E+06	1.2E+06	1.4E+06	5.6E+05					
26	1.2E+06	8.9E+05	2.8E+06	1.3E+06	7.1E+05	4.8E+05	5.4E+05					
27	9.9E+05	2.2E+06	3.6E+06	1.2E+06	6.7E+05	3.6E+05	3.4E+05					
28	5.4E+05	3.5E+06	1.4E+06	1.3E+06	7.9E+05	5.5E+05	4.4E+05					
29	4.8E+05		9.0E+05	1.3E+06	1.8E+06	1.1E+06	1.1E+06					
30	3.1E+05		1.3E+06	1.3E+06	7.6E+06	2.7E+06	6.2E+05					
31	4.8E+05		5.4E+05		4.3E+06		5.5E+05					

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GOES7 >10 MeV Proton Fluence - 1994

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.1E+04	1.1E+04	2.0E+04	1.2E+04	1.6E+04	1.2E+04	1.8E+04					
2	1.1E+04	1.1E+04	2.1E+04	1.2E+04	1.3E+04	1.1E+04	1.5E+04					
3	1.2E+04	1.2E+04	1.9E+04	1.1E+04	1.2E+04	1.1E+04	1.2E+04					
4	1.1E+04	1.6E+04	2.1E+04	1.2E+04	1.1E+04	1.1E+04	1.1E+04					
5	1.1E+04	1.1E+04	2.0E+04	1.2E+04	1.3E+04	1.2E+04	3.9E+04					
6	1.2E+04	1.1E+04	1.9E+04	1.1E+04	1.1E+04	1.1E+04	1.3E+04					
7	1.2E+04	1.0E+04	1.6E+04	1.1E+04	1.2E+04	1.1E+04	1.4E+04					
8	1.1E+04	2.3E+04	--	1.1E+04	1.1E+04	1.1E+04	5.8E+04					
9	1.0E+04	1.0E+04	2.1E+04	1.1E+04	1.1E+04	1.2E+04	1.5E+04					
10	1.1E+04	1.2E+04	2.1E+04	1.2E+04	1.2E+04	1.1E+04	1.4E+04					
11	1.0E+04	1.5E+04	2.3E+04	1.2E+04	1.4E+04	1.2E+04	1.5E+04					
12	1.2E+04	1.2E+04	2.3E+04	1.2E+04	1.2E+04	1.2E+04	2.5E+04					
13	1.5E+04	1.3E+04	2.4E+04	1.2E+04	1.4E+04	3.2E+04	2.4E+04					
14	1.3E+04	1.7E+04	2.3E+04	1.9E+04	1.3E+04	1.3E+04	3.9E+04					
15	1.3E+04	1.4E+04	2.3E+04	2.3E+04	1.2E+04	1.2E+04	1.4E+04					
16	1.2E+04	1.3E+04	2.0E+04	1.3E+04	1.2E+04	1.4E+04	1.6E+04					
17	1.1E+04	1.2E+04	1.6E+04	1.1E+04	1.2E+04	3.6E+04	3.8E+04					
18	1.0E+04	1.4E+04	1.6E+04	1.2E+04	1.2E+04	1.3E+04	1.4E+04					
19	9.9E+03	1.6E+04	1.7E+04	1.2E+04	1.2E+04	1.3E+04	1.5E+04					
20	9.8E+03	3.4E+06	1.7E+04	1.3E+04	1.3E+04	1.3E+04	1.6E+04					
21	9.9E+03	7.5E+07	1.7E+04	1.4E+04	1.5E+04	1.2E+04	1.6E+04					
22	1.0E+04	2.8E+05	1.8E+04	1.4E+04	1.3E+04	1.3E+04	--					
23	9.5E+03	2.3E+04	1.7E+04	1.5E+04	1.3E+04	3.3E+04	1.5E+04					
24	1.0E+04	1.8E+04	1.7E+04	1.6E+04	1.2E+04	1.4E+04	1.5E+04					
25	1.0E+04	1.9E+04	1.8E+04	1.5E+04	1.2E+04	1.5E+04	1.4E+04					
26	9.8E+03	1.7E+04	1.7E+04	1.5E+04	1.3E+04	1.4E+04	1.4E+04					
27	9.8E+03	2.9E+04	1.7E+04	1.5E+04	1.3E+04	1.4E+04	1.4E+04					
28	9.9E+03	2.3E+04	1.4E+04	1.5E+04	1.4E+04	1.4E+04	1.4E+04					
29	9.4E+03		1.3E+04	1.5E+04	1.3E+04	1.4E+04	1.2E+04					
30	9.5E+03		1.2E+04	1.5E+04	1.2E+04	6.2E+04	1.2E+04					
31	3.7E+04		1.2E+04		1.2E+04		1.3E+04					

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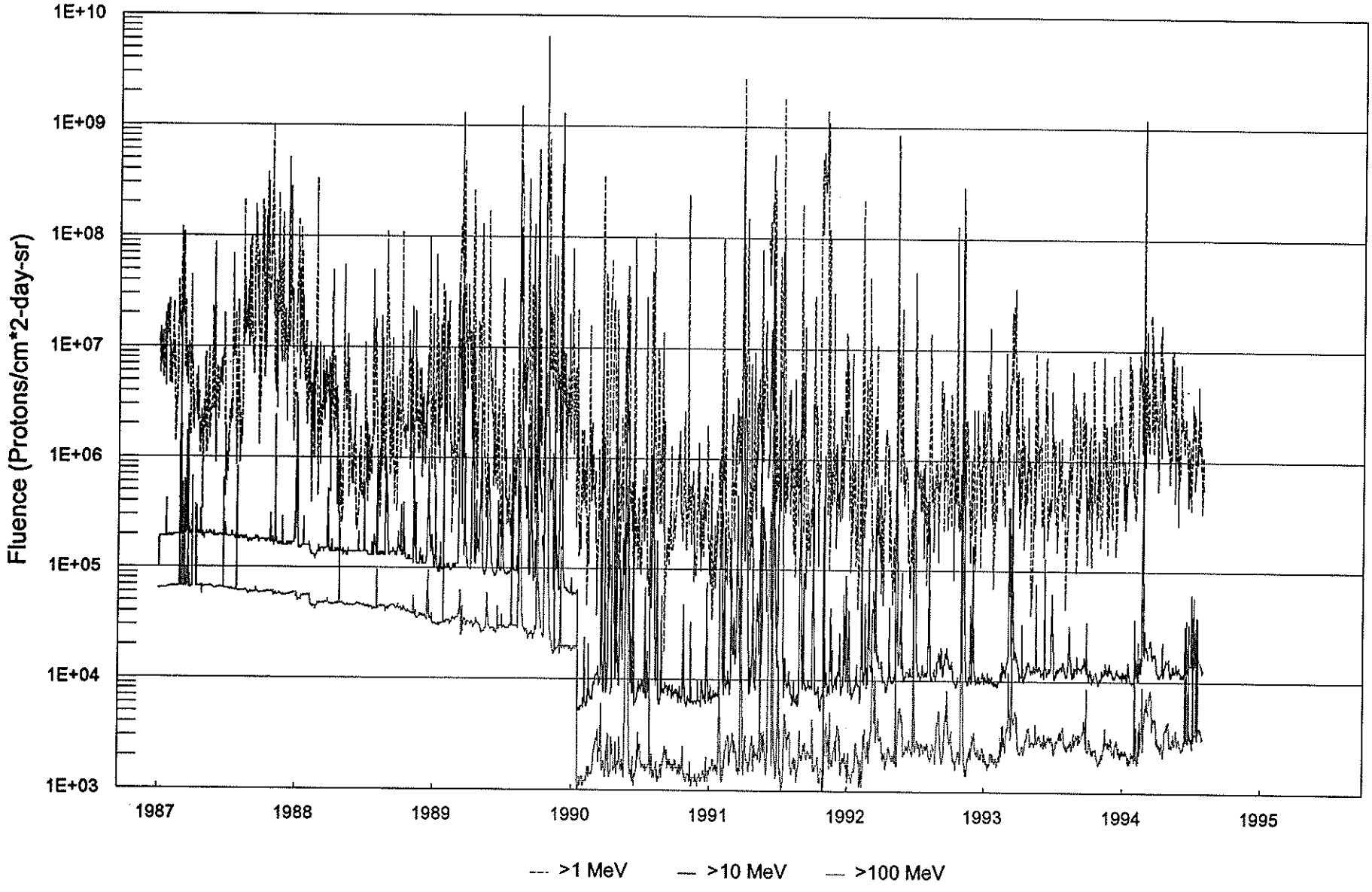
GOES7 >100 MeV Proton Fluence - 1994

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.2E+03	2.4E+03	5.6E+03	3.1E+03	4.3E+03	2.6E+03	2.7E+03					
2	2.3E+03	2.0E+03	6.2E+03	2.9E+03	3.4E+03	2.6E+03	2.6E+03					
3	2.2E+03	2.2E+03	5.5E+03	2.7E+03	2.5E+03	2.5E+03	2.5E+03					
4	2.3E+03	3.9E+03	7.1E+03	2.6E+03	2.6E+03	2.4E+03	2.7E+03					
5	2.2E+03	2.1E+03	6.4E+03	2.8E+03	2.6E+03	2.4E+03	2.6E+04					
6	2.4E+03	1.9E+03	5.9E+03	2.6E+03	2.6E+03	2.5E+03	2.9E+03					
7	2.3E+03	1.8E+03	5.0E+03	2.6E+03	2.7E+03	2.5E+03	3.1E+03					
8	2.2E+03	2.0E+03	--	2.5E+03	2.7E+03	2.5E+03	3.2E+03					
9	2.3E+03	1.9E+03	6.3E+03	2.7E+03	2.5E+03	2.6E+03	3.4E+03					
10	2.3E+03	2.4E+03	7.5E+03	2.3E+03	2.6E+03	2.5E+03	3.4E+03					
11	2.2E+03	3.7E+03	7.5E+03	2.6E+03	3.0E+03	2.9E+03	3.3E+03					
12	1.9E+03	2.2E+03	8.4E+03	2.6E+03	2.8E+03	2.7E+03	3.6E+03					
13	1.9E+03	2.3E+03	7.8E+03	2.8E+03	3.3E+03	2.2E+04	3.9E+03					
14	1.8E+03	4.4E+03	8.0E+03	2.6E+03	3.0E+03	2.9E+03	2.7E+04					
15	2.1E+03	2.6E+03	7.5E+03	2.5E+03	2.7E+03	2.9E+03	3.2E+03					
16	1.9E+03	2.6E+03	6.7E+03	2.4E+03	2.7E+03	3.3E+03	3.0E+03					
17	1.8E+03	2.6E+03	3.6E+03	2.1E+03	2.8E+03	2.6E+04	2.5E+04					
18	1.8E+03	3.5E+03	3.8E+03	2.4E+03	2.8E+03	3.3E+03	3.4E+03					
19	2.0E+03	3.9E+03	4.0E+03	2.5E+03	3.0E+03	2.9E+03	3.8E+03					
20	1.9E+03	8.9E+03	4.7E+03	2.6E+03	3.1E+03	3.1E+03	3.7E+03					
21	2.1E+03	3.5E+03	4.6E+03	3.5E+03	3.6E+03	2.8E+03	3.9E+03					
22	2.3E+03	2.4E+03	4.5E+03	3.7E+03	3.2E+03	2.9E+03	--					
23	2.1E+03	3.2E+03	4.5E+03	3.7E+03	3.2E+03	2.3E+04	3.5E+03					
24	2.1E+03	3.7E+03	4.3E+03	3.6E+03	2.6E+03	3.1E+03	3.8E+03					
25	2.2E+03	4.0E+03	4.6E+03	3.8E+03	2.8E+03	3.7E+03	3.6E+03					
26	2.1E+03	4.8E+03	4.7E+03	4.1E+03	2.8E+03	3.3E+03	3.7E+03					
27	2.2E+03	5.7E+03	4.5E+03	3.6E+03	3.0E+03	3.0E+03	3.5E+03					
28	2.2E+03	5.8E+03	3.4E+03	4.3E+03	3.0E+03	3.2E+03	3.4E+03					
29	2.0E+03		3.0E+03	4.1E+03	2.9E+03	2.9E+03	3.0E+03					
30	1.9E+03		2.7E+03	4.0E+03	2.8E+03	3.1E+03	3.2E+03					
31	2.7E+04		3.0E+03		2.6E+03		3.0E+03					

Editor's Note: These daily proton fluences are the residuals after the background is subtracted; therefore, it is not easy to make any meaningful physical interpretation of them. They are provided merely as a tool to distinguish when events occur. Anyone interested in detailed analysis should contact us for an appropriate referral. An updated algorithm for calculating the proton flux went into effect 16 Jan 90, resulting in lower flux/fluence values. '--' indicates data not available.

GOES7 Daily Proton Fluences 1987 - 1994



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WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."