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Data for January 1994

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SOLAR-GEOPHYSICAL DATA

Number 599

(Issued in Two Parts)

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Number 599 Part II

DATA FOR JANUARY 1994

Hα SOLAR FLARES

JANUARY 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	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	VORO	01	0047	0048	0058	S09	E41	7646	01	4.1	11	SF		1	C	0048	72	0.9	DIJ
0002	LEAR	01	0120	0120	0123	N08	W78	7640	12	26.3	3	SF		3	E		24		
0003	LEAR	01	0156	0158	0202	N08	W79	7640	12	26.2	6	SF		3	E		25		
0004	LEAR	01	0157	0158	0216	S09	E39	7646	01	4.0	19	SF		3	E		23		F
0005	LEAR	01	0327	0327	0334	N13	E35	7645	01	3.8	7	SF	C 1.8	3	E		22		
0006	LEAR	01	0554	0554	0558	N06	W77	7640	12	26.6	4	SF	C 2.0	3	E		13		
0007	LEAR	01	0557	0600	0606	S09	E37	7646	01	4.0	9	SF		3	E		14		F
		01	1041		1220	No Flare Patrol													
0008	SVTO	01	1223E	1223U	1233	N10	E36	7645	01	4.2	10D	SF	C 1.5	3	E		28		F
		01	1237		1414	No Flare Patrol													
		01	1421		1447	No Flare Patrol													
0009		01	1735	1741	1806	S15	E27	7647	01	3.8	31	1F	C 4.4				102		FH
	HOLL	01	1735	1741	1806	S15	E27	7647	01	3.8	31	SF	C 4.4	3	E		72		FH
	RAMY	01	1753E	1753U	1826D	S15	E27	7647	01	3.8	33D	1F		2	E		100		F
	PALE	01	1758E	1758U	1816D	S15	E27	7647	01	3.8	18D	1F		2	E		135		F
		01	2145		2219	No Flare Patrol													
0010	LEAR	02	0214	0215	0217	S10	E25	7646	01	4.0	3	SF		3	E		22		F
		02	1201		1245	No Flare Patrol													
		02	1336		1425	No Flare Patrol													
		02	1453		1503	No Flare Patrol													
0011		02	1542	1543	1548	N12	E24	7645	01	4.5	6	SF					24		
	HOLL	02	1542	1543	1547	N12	E24	7645	01	4.5	5	SF		3	E		27		
	RAMY	02	1542	1543	1548	N12	E24	7645	01	4.5	6	SF		3	E		20		
0012	RAMY	02	1848	1848	1851	S10	E17	7646	01	4.1	3	SF		3	E		11		
0013	HOLL	02	2159	2159	2208	N12	E17	7645	01	4.2	9	SF		3	E		11		
0014		02	2317	2318	2325	N12	E16	7645	01	4.2	8	SN	M 6.5				74		EF
	PALE	02	2251E	2254U	2317D	N13	E15	7645	01	4.1	26D	SN	M 6.5	3	E		82		FE
	LEAR	02	2317	2318	2325	N12	E17	7645	01	4.2	8	SF		3	E		67		F
0015	LEAR	03	0436	0437	0440	S09	E13	7646	01	4.2	4	SF		3	E		14		F
0016	KANZ	03	0827	0827	0831	S09	E11	7646	01	4.2	4	SF		2	C				
0017	KANZ	03	0855	0855	0859	N14	E20	7645	01	4.9	4	SF		2	C				
0018	KANZ	03	0855	0859	0904	N05	E79	7648	01	9.3	9	SF		2	C				
0019	SVTO	03	1035E	1058	1109D	N05	E79	7648	01	9.3	34D	SF		3	E		35		
0020	KANZ	03	1312	1316	1320	N15	E17	7645	01	4.8	8	SF		2	C				
0021	RAMY	03	1620	1624	1628	N03	E78	7648	01	9.5	8	SF	B 5.0	3	E		13		F
0022	RAMY	03	1636	1644	1647	N03	E76	7648	01	9.4	11	SF		3	E		12		F
0023		03	17525	1758	1808	N04	E76	7648	01	9.4	16	SF	B 8.8				45		FH
	RAMY	03	1752	1758	1808	N03	E75	7648	01	9.3	16	SF		3	E		51		F
	HOLL	03	1757	1758	1809	N06	E76	7648	01	9.4	12	SF	B 8.8	3	E		39		H
0024		03	19292	19321	1938	N04	E74	7648	01	9.3	9	SF					26		F
	HOLL	03	1929	1933	1940	N06	E74	7648	01	9.3	11	SF		3	E		36		
	RAMY	03	1931	1932	1937	N03	E75	7648	01	9.4	6	SF		3	E		16		F

Hα SOLAR FLARES

JANUARY 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	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0025		03	19452	19482	1952	N05	E76	7648	01	9.5	7	SF	C 1.0				21		F
	RAMY	03	1945	1948	1951	N03	E76	7648	01	9.5	6	SF	C 1.0	3	E		18		F
	HOLL	03	1946	1948	1952	N06	E75	7648	01	9.4	6	SF		3	E		21		
	PALE	03	1947	1950	1953	N07	E76	7648	01	9.5	6	SF		3	E		25		
0026		03	2311	23111	2315	N06	E72	7648	01	9.3	4	SF					18		
	HOLL	03	2311	2311	2315	N06	E71	7648	01	9.3	4	SF		3	E		18		
	LEAR	03	2311	2312	2315	N06	E73	7648	01	9.4	4	SF		3	E		17		
0027	HOLL	03	2334	2337	2340	N05	E67	7648	01	9.0	6	SF		3	E		46		
		03	2400		2400	No Flare Patrol													
0028	PALE	04	0110E	0115	0150	S10	E14	7649	01	5.1	40D	SF	C 1.2	3	E		45		
0029		04	0118	0143	0158	S18	E08	7649	01	4.7	40	SF					35		EFIJU
	LEAR	04	0118	0143	0201	S18	E08	7649	01	4.7	43	SF		3	E		35		FU
	VORO	04	0121U		0155	S18	E08	7649	01	4.7	34U	SF		1	C				EIJ
0030		04	03025	03111	0315	N14	E08	7645	01	4.7	13	SF	C 2.4				32		F
	PALE	04	0302	0312	0325D	N14	E08	7645	01	4.7	23D	SF	C 2.4	3	E		35		F
	LEAR	04	0307	0311	0315	N15	E07	7645	01	4.6	8	SF		3	E		30		F
0031	LEAR	04	0448	0450	0453	N15	E09	7645	01	4.9	5	SF		3	E		11		
0032	LEAR	04	0613	0621	0632	N06	E68	7648	01	9.3	19	SF	C 1.0	3	E		23		
0033	LEAR	04	0633	0633	0643	N06	E65	7648	01	9.1	10	SF		3	E		22		
0034	LEAR	04	0644	0646	0711	N06	E65	7648	01	9.1	27	SF		3	E		50		F
0035	LEAR	04	0630	0631	0649	N13	W05	7645	01	3.9	19	SF		3	E		31		
0036	LEAR	04	0715	0752	0852	N06	E65	7648	01	9.2	97	SF		3	E		55		
0037	LEAR	04	0743	0747	0816	N12	W05	7645	01	3.9	33	SF		3	E		25		
0038	LEAR	04	0927	0931	0946	N07	E65	7648	01	9.3	19	SF		3	E		27		
0039	RAMY	04	1258	1305	1341	N03	E63	7648	01	9.2	43	SF		3	E		70		F
0040	HOLL	04	1531	1533	1540	N06	E62	7648	01	9.3	9	SF		3	E		13		
0041	RAMY	04	1617	1619	1625	N03	E61	7648	01	9.2	8	SF		3	E		15		
0042		04	1923	1924	1935	N14	E01	7645	01	4.9	12	SF					16		
	HOLL	04	1923	1924	1935	N15	E00	7645	01	4.8	12	SF		3	E		15		
	PALE	04	1925E	1928U	1938D	N14	E02	7645	01	5.0	13D	SF		2	E		16		
0043	HOLL	04	2057	2058	2102	N14	E02	7645	01	5.0	5	SF		3	E		18		
0044	PALE	05	0027E	0028U	0032D	N15	W04	7645	01	4.7	5D	SF	B 8.3	3	E		19		
0045	PALE	05	0105E	0115U	0126D	N16	W04	7645	01	4.7	21D	SF		3	E		34		F
0046		05	07241	07241	0735	N14	W05	7645	01	4.9	11	SN					84	1.5	D
	TACH	05	0724	0724	0735	N14	W05	7645	01	4.9	11	SN		3	C	0724	143	1.5	D
	LEAR	05	0725	0725	0735	N14	W05	7645	01	4.9	10	SF		3	E		26		
0047		05	0648	06502	0736	S14	W19	7646	01	3.8	48	1N					712	14.1	,FHUZ
	LEAR	05	0648	0650	0737	S12	W18	7646	01	3.9	49	1N		3	E		164		UF
	TACH	05	0648	0652	0735	S15	W20	7646	01	3.8	47	SF		3	C	0652	1260	14.1	F,H,Z
0048	LEAR	05	0648	0650	0739	S13	W23	7646	01	3.5	51	1N	M 1.0	3	E		159		FU
0049	LEAR	05	0743	0743	0746	S09	W15	7646	01	4.2	3	SF		3	E		23		

Hα S O L A R F L A R E S

JANUARY 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	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0050		05	08265	08312	0850	N16	W08	7645	01	4.7	24	SF	C 2.8				70	0.9	E
	LEAR	05	0826	0831	0848	N17	W08	7645	01	4.7	22	SF	C 2.8	3	E		49		
	ISTA	05	0828		0845	N16	W06	7645	01	4.9	17	SN							E
	HTPR	05	0831	0833	0856	N15	W09	7645	01	4.7	25	SF			C	0833	90	0.9	E
0051	HTPR	05	0833	0834	0839	S14	W20	7649	01	3.8	6	SF			C	0834	10	0.1	E
0052	LEAR	05	0901	0905	0910	S11	W21	7646	01	3.8	9	SF	C 1.9	3	E		20		
0053	HTPR	05	0951	0953	1010	S09	W19	7646	01	4.0	19	SN			C	0953	20	0.2	E
0054	HTPR	05	1024	1025	1029	N14	E54	7648	01	9.5	5	SF			C	1025	50	0.8	E
0055	HTPR	05	1104	1107	1113	S13	W22	7649	01	3.8	9	SF			C	1107	30	0.3	ET
		05	1201		1232	No Flare Patrol													
0056	RAMY	05	1315	1320	1324	N04	E49	7648	01	9.2	9	SF	C 1.8	3	E		39		
		05	1331		1348	No Flare Patrol													
0057		05	14022	1411	1424	N16	W12	7645	01	4.7	22	SF	C 1.9				30		
	KANZ	05	1402		1402D	N15	W14	7645	01	4.5	22D	SF		2	C				
	RAMY	05	1404	1411	1424	N16	W11	7645	01	4.7	20	SF	C 1.9	3	E		30		
0058	RAMY	05	1450	1453	1458	S09	W27	7646	01	3.6	8	SF		3	E		14		H
0059	SVTO	05	1505E	1512U	1515D	N13	W14	7645	01	4.6	10D	SF		1	E		37		F
0060	RAMY	05	1543	1545	1556	N03	E47	7648	01	9.2	13	SN	C 1.7	3	E		36		
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0063	RAMY	05	1656	1657	1702	N02	E47	7648	01	9.2	6	SF		3	E		11		
0064	RAMY	05	1702	1704	1711	N14	W09	7645	01	5.0	9	SF		3	E		12		F
0065	RAMY	05	1721	1722	1726	S11	W24	7646	01	3.9	5	SF	C 1.7	3	E		17		F
0066		05	1757	1802	1806D	S09	W22	7646	01	4.1	9D	1N	C 2.8				76		F
	RAMY	05	1757	1802	1805D	S10	W24	7646	01	3.9	8D	1N	C 2.8	3	E		123		F
	PALE	05	1758E	1801U	1806D	S08	W19	7646	01	4.3	8D	SF		3	E		29		F
0067	PALE	05	1822E	1823U	1826D	S06	W26	7646	01	3.8	4D	SF	C 1.3	3	E		20		
0068	PALE	05	1945E	1947U	1955D	S05	W26	7646	01	3.9	10D	4	C 2.4	3	E		35		FH
		05	2047		2218	No Flare Patrol													
		06	0009		0017	No Flare Patrol													
		06	0038		0114	No Flare Patrol													
		06	0124		0133	No Flare Patrol													
0069	MITK	06	0406	0407	0414	S07	W31	7646	01	3.8	8	1B			C	0407	206	2.5	
0070		06	0613*	06158	0635	N17	W18	7645	01	4.9	22	1B					343	4.0	EU
	MITK	06	0613	0615	0630	N18	W18	7645	01	4.9	17	1B			C	0615	436	5.1	E
	TACH	06	0623	0623	0640	N16	W19	7645	01	4.8	17	1B		2	C	0623	250	2.9	U
		06	0643		0702	No Flare Patrol													
0071	SVTO	06	0758	0758	0809	S09	W34	7646	01	3.8	11	SN	C 4.6	3	E		47		
		06	0841		0904	No Flare Patrol													
0072	SVTO	06	1008E	1010U	1028	S09	W32	7646	01	4.0	20D	SF	C 1.4	3	E		10		FH

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0073		06	12371	1239	1256	S10	W36	7646	01	3.8	19	SN	C 4.2				60		EF
	RAMY	06	1237	1239	1256D	S09	W35	7646	01	3.9	19D	SN	C 4.2	4	E		56		FE
	SVTO	06	1238	1239	1256	S10	W36	7646	01	3.8	18	SN		3	E		63		F
0074		06	1431	14321	1438	S11	W37	7646	01	3.8	7	SF	C 2.2				20		F
	RAMY	06	1431	1432	1438	S11	W37	7646	01	3.8	7	SF	C 2.2	4	E		12		F
	SVTO	06	1431	1433	1439	S11	W37	7646	01	3.8	8	SF		3	E		27		F
0075		06	15174	1521	1535	S10	W36	7646	01	3.9	18	SF	C 1.4				43		F
	HOLL	06	1517	1521	1542	S10	W36	7646	01	3.9	25	SF	C 1.4	3	E		75		F
	RAMY	06	1521	1521	1528	S09	W37	7646	01	3.9	7	SF		3	E		11		F
0076		06	17001	17011	1711	S10	W38	7646	01	3.8	11	SF	B 8.5				42		
	RAMY	06	1700	1701	1713	S09	W38	7646	01	3.8	13	SF	B 8.5	3	E		47		
	HOLL	06	1701	1702	1709	S10	W38	7646	01	3.8	8	SF		3	E		38		
0077		06	17303	17481	1801	S11	W36	7646	01	4.0	31	SF	C 1.1				22		F
	RAMY	06	1730	1749	1808	S11	W37	7646	01	3.9	38	SF	C 1.1	3	E		22		F
	HOLL	06	1733	1748	1754	S11	W35	7646	01	4.1	21	SF		3	E		21		
0078		06	18571	18592	1906	S10	W38	7646	01	3.9	9	SF	C 1.1				66		H
	RAMY	06	1857	1901	1907	S09	W39	7646	01	3.9	10	SF		3	E		75		H
	HOLL	06	1858	1859	1905	S10	W38	7646	01	3.9	7	SF	C 1.1	3	E		58		
0079		07	0111*	01158	0129	S10	W38	7646	01	4.2	18	SF	C 2.3				56	1.1	DIJT
	PALE	07	0111	0115	0129D	S09	W37	7646	01	4.3	18D	SF	C 2.3	3	E		30		
	VORO	07	0121	0123	0129	S10	W40	7646	01	4.0	8	SF		1	C	0123	81	1.1	DIJT
0080		07	02143	0220	0250	S10	W40	7646	01	4.1	36	SF	C 3.9				62	1.3	EIJT
	LEAR	07	0214	0220	0301	S11	W40	7646	01	4.1	47	SF	C 3.9	3	E		24		
	VORO	07	0217	0220	0238	S08	W41	7646	01	4.0	21	SF		1	C	0220	99	1.3	EIJT
0081	LEAR	07	0556	0605	0616	S09	W43	7646	01	4.0	20	SF	C 1.3	3	E		26		
0082	LEAR	07	0937	0944	1003	S09	W45	7646	01	4.0	26	1N	M 1.3	3	E		121		H
		07	1102		1126	No Flare Patrol													
0083		07	1127	1128	1142	S10	W48	7646	01	3.9	15	SN	C 8.0				56		F
	SVTO	07	1127	1128	1146	S11	W49	7646	01	3.8	19	SN	C 8.0	3	E		79		
	RAMY	07	1128E	1129U	1139	S10	W48	7646	01	3.9	11D	SN		1	E		33		F
0084	RAMY	07	1234	1235	1315	S04	W44	7646	01	4.2	41	SF	C 2.3	4	E		53		FZ
0085	HOLL	07	1519	1524	1545	N06	E32	7650	01	10.0	26	SF	B 7.3	3	E		56		
0086		07	15334	15479	1604	S16	W53	7647	01	3.6	31	SF					20		F
	HOLL	07	1533	1556	1608	S16	W55	7647	01	3.5	35	SF		3	E		19		
	RAMY	07	1537	1547	1600	S15	W51	7647	01	3.8	23	SF		3	E		21		F
0087	HOLL	07	1628	1630	1634	S09	W46	7646	01	4.2	6	SF		3	E		13		
0088	RAMY	07	1744	1746	1806	S09	W47	7646	01	4.2	22	SF	B 5.3	3	E		13		
0089		07	1815	1825	1850	S12	W46	7646	01	4.3	35	1F	C 2.2				93		F
	RAMY	07	1815	1825	1850	S10	W49	7646	01	4.1	35	1F	C 2.2	3	E		119		F
	PALE	07	1823E	1823U	1837D	S12	W46	7646	01	4.3	14D	SF		2	E		51		F
	HOLL	07	1825E	1829U	1836D	S13	W44	7646	01	4.4	11D	1F		3	E		109		
0090	RAMY	07	2048	2051	2111	S10	W49	7646	01	4.2	23	SF	B 4.8	3	E		20		
0091	HOLL	07	2127	2137	2208	S10	W55	7646	01	3.8	41	SF	B 9.4	3	E		57		FH
0092	LEAR	08	0018	0020	0022	S05	W55	7646	01	3.9	4	SF	B 8.1	3	E		18		F
0093	LEAR	08	0142	0146	0155	S11	W56	7646	01	3.8	13	SF	B 8.4	3	E		20		F
0094	LEAR	08	0306	0306	0310	S10	W53	7646	01	4.1	4	SF	C 1.6	3	E		18		

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0095	ISTA	08	0751		0755	N05	E23	7650	01	10.0	4	SN							F
0096		08	0800	08011	0813	S16	W70	7647	01	3.0	13	SN	B 9.4				20		F
	ISTA	08	0800	0801	0820	S16	W72	7647	01	2.9	20	SB							F
	LEAR	08	0800	0802	0806	S15	W67	7647	01	3.3	6	SF	B 9.4	3	E		20		
0097	HTPR	08	1000E	1003	1040	S15	W60	7649	01	3.9	40D	SF			C	1003	20		EK
0098	KANZ	08	1002	1010	1058	S15	W58	7649	01	4.0	56	SF		2	C				
0099	HTPR	08	1000E	1027	1040	S15	W60	7649	01	3.9	40D	SF			C	1027	30		K
0100	RAMY	08	1630	1630	1634	S13	W69	7647	01	3.5	4	SF	B 9.8	3	E		46		
0101	LEAR	09	0301	0303	0306	S10	W70	7646	01	3.9	5	SF	B 7.3	3	E		19		
		09	1051		1133	No Flare Patrol													
0102	HOLL	09	2251	2256	2302	S05	W78	7646	01	4.1	11	SF	C 8.2	3	E		13		
0103		09	23053	23165	2330	S06	W76	7646	01	4.3	25	SF					36		
	LEAR	09	2305	2321	2334	S06	W76	7646	01	4.3	29	SF		3	E		38		
	HOLL	09	2308	2316	2326	S05	W77	7646	01	4.2	18	SF		3	E		33		
0104	PALE	09	2351E	2352U	2358D	S11	W83	7646	01	3.7	7D	SF		2	E		38		
0105		10	13031	13082	1320	N07	W19	7648	01	9.1	17	SF					40		F
	RAMY	10	1303	1308	1321	N07	W18	7648	01	9.2	18	SF		3	E		21		F
	SVTO	10	1303	1310	1319	N07	W19	7648	01	9.1	16	SF		3	E		60		F
	KANZ	10	1304		1308D	N06	W19	7648	01	9.1	4D	SF		2	C				
0106		10	17341	1735	1738	N06	W21	7648	01	9.2	4	SF					16		F
	HOLL	10	1734	1735	1738	N06	W21	7648	01	9.2	4	SF		3	E		13		
	RAMY	10	1735	1735	1739D	N06	W21	7648	01	9.2	4D	SF		3	E		19		F
0107	HOLL	10	2134	2136	2139	N07	W23	7648	01	9.2	5	SF	B 9.5	3	E		30		
0108		10	23151	23151	2341	N06	W27	7648	01	8.9	26	SF	C 1.3				38		F
	PALE	10	2314E	2315U	2326D	N05	W28	7648	01	8.9	12D	SF		3	E		42		F
	LEAR	10	2315	2315	2341	N07	W27	7648	01	8.9	26	SF	C 1.3	3	E		33		
	HOLL	10	2316	2316	2317D	N07	W25	7648	01	9.1	1D	SF		3	E		39		
		10	2331		2335	No Flare Patrol													
0109	LEAR	11	0320	0321	0327	N04	W18	7650	01	9.8	7	SF	B 6.3	3	E		11		F
0110	LEAR	11	0411	0412	0437	N07	W29	7648	01	9.0	26	SF	C 1.8	3	E		97		F
0111	LEAR	11	0456	0500	0503	N04	W19	7650	01	9.8	7	SF	B 9.0	3	E		12		F
0112	LEAR	11	0828	0828	0831	N04	W22	7650	01	9.7	3	SF		3	E		12		
		11	1221		1439	No Flare Patrol													
		11	2045		2047	No Flare Patrol													
		11	2051		2104	No Flare Patrol													
		11	2114		2220	No Flare Patrol													
		12	0801		0900	No Flare Patrol													
		12	0905		0952	No Flare Patrol													
0113	HTPR	12	1201	1207	1213	N03	W42	7650	01	9.4	12	SF			C	1207	30	0.4	
0114	RAMY	12	1401E	1410	1423	N06	W42	7648	01	9.4	22D	SF		3	E		19		
		12	2149		2159	No Flare Patrol													
		13	0008		0244	No Flare Patrol													
0115		13	0916	0916	0926	N06	W48	7650	01	9.8	10	SF	B 6.8				42		F
	SVTO	13	0915E	0919U	0919D	N05	W47	7650	01	9.9	4D	SF		1	E		61		F
	LEAR	13	0916	0916	0926	N07	W50	7650	01	9.6	10	SF	B 6.8	3	E		23		F

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0116	SVTO	13	1048	1058	1103	N04	W50	7650	01	9.7	15	SF		3	E		44		
		13	1331		1339	No Flare Patrol													
		13	1357		1441	No Flare Patrol													
0117	HOLL	13	1524	1524	1529	N06	W56	7648	01	9.4	5	SF	B 4.0	3	E		10		
		14	0029		0500	No Flare Patrol													
		14	0636		0651	No Flare Patrol													
0118		14	09053	09121	0925	N05	W68	7650	01	9.3	20	SF	C 1.2				44		F
	LEAR	14	0905	0913	0927	N05	W67	7650	01	9.4	22	SF	C 1.2	3	E		77		F
	KANZ	14	0908	0912	0928	N04	W65	7650	01	9.5	20	SF		2	C				
	SVTO	14	0911E	0915U	0920	N06	W72	7650	01	9.0	9D	SF		2	E		12		F
		14	2016		2022	No Flare Patrol													
		14	2039		2104	No Flare Patrol													
		14	2137		2152	No Flare Patrol													
		14	2244		2247	No Flare Patrol													
0119	HTPR	15	0841	0842	0853	S10	W80	7653	01	9.3	12	SF			C	0842	10		D
0120	HTPR	15	1034	1038	1043	S10	W80	7653	01	9.4	9	SF			C	1038	10		D
0121	HTPR	15	1213	1219	1228	S10	W80	7653	01	9.5	15	SF			C	1217	10		D
0122		15	12463	12531	1302	N06	E88	7654	01	22.1	16	SF					130		A
	HTPR	15	1246	1254	1303	N07	E90	7654	01	22.3	17	F			C	1254	130		A
	KANZ	15	1249	1253	1301	N05	E85	7654	01	21.9	12	SF		2	C				
0123	HTPR	15	1438	1455	1500D	S09	W78	7653	01	9.7	22D	N			C	1455	80		E
0124	RAMY	15	1611	1613	1617	S04	W79	7653	01	9.8	6	SF	C 1.0	3	E		19		
		15	1638		1658	No Flare Patrol													
		15	1825		1852	No Flare Patrol													
		15	1919		1935	No Flare Patrol													
		15	2016		2228	No Flare Patrol													
0125		16	1748	17511	1801	N03	E71	7654	01	22.0	13	SF	C 1.4				51		FH
	HOLL	16	1748	1751	1801	N03	E71	7654	01	22.0	13	SF	C 1.4	3	E		58		FH
	RAMY	16	1748	1752	1801	N03	E71	7654	01	22.0	13	SF		3	E		44		H
0126		16	2309*	2341	2404	N04	E71	7654	01	22.3	55	1B	M 6.1				160		U
	HOLL	16	2309	2340U	2402	N05	E71	7654	01	22.3	53	1N	M 6.1	3	E		219		U
	MITK	16	2333	2341	2405	N03	E71	7654	01	22.3	32	1B			C	2341	102		
		17	0055		0342	No Flare Patrol													
0127	LEAR	17	0916	0916	0922	N06	E65	7654	01	22.2	6	1N	C 9.3	3	E		146		
0128		17	13042	13061	1334	N08	E68	7654	01	22.6	30	SF	C 2.3				23		F
	RAMY	17	1304	1307	1347	N08	E68	7654	01	22.6	43	SF	C 2.3	3	E		23		F
	KANZ	17	1306	1306	1322	N08	E69	7654	01	22.7	16	SF		2	C				
0129		17	1334*	1338*	1405	N06	E62	7654	01	22.2	31	SF					25		
	KANZ	17	1334	1338	1403D	N06	E63	7654	01	22.3	29D	SF		2	C				
	RAMY	17	1351	1353	1405	N07	E62	7654	01	22.2	14	SF		3	E		25		
0130		17	1901	1901	1907	N08	E59	7654	01	22.2	6	SF	C 1.5				18		F
	HOLL	17	1901	1901	1905	N07	E60	7654	01	22.3	4	SF		3	E		16		
	RAMY	17	1901	1901	1909	N09	E58	7654	01	22.1	8	SF	C 1.5	3	E		19		F
0131	HOLL	17	2116	2117	2129	N05	E58	7654	01	22.2	13	SF		3	E		12		
		17	2347		2400	No Flare Patrol													
		18	0000		0014	No Flare Patrol													
		18	0021		0030	No Flare Patrol													
		18	0034		0047	No Flare Patrol													
		18	0301		0512	No Flare Patrol													

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0132	HTPR	18	0821E		0847	N11	E53	7654	01	22.3	26D	SF			C	0821	100	1.9	E
0133	HTPR	18	1104	1108	1118	N12	E59	7654	01	22.9	14	SN			C	1108	80	1.6	
0134	RAMY	18	1607	1618	1631	N08	E47	7654	01	22.2	24	SF	B 8.6	3	E		19		F
0135	LEAR	19	0311	0316	0329	N05	E40	7654	01	22.1	18	SF	C 4.0	3	E		48		F
0136	HTPR	19	0800E		0814	N10	E48	7654	01	22.9	14D	SF			C	0804	70	1.0	
0137	KANZ	19	0830	0830	0834	N06	E42	7654	01	22.5	4	SF		2	C				
0138		19	11385	11442	1153	N07	E36	7654	01	22.2	15	SF					108	2.3	EF
	KANZ	19	1138	1146	1158	N06	E37	7654	01	22.2	20	SF		2	C				
	HTPR	19	1140	1144	1150	N07	E38	7654	01	22.3	10	1N			C	1144	180	2.3	E
	RAMY	19	1143	1144	1152	N09	E33	7654	01	22.0	9	SF		2	E		36		F
0139		19	13381	1342	1434	N04	E40	7654	01	22.5	56	SF	C 4.2				39		EF
	KANZ	19	1338	1342	1422D	N04	E41	7654	01	22.6	44D	SF		2	C				
	RAMY	19	1339	1342	1434	N05	E40	7654	01	22.6	55	SF	C 4.2	3	E		39		FE
		19	1437		1441	No Flare Patrol													
		19	1443		1450	No Flare Patrol													
		20	0601		0606	No Flare Patrol													
		20	0729		0803	No Flare Patrol													
		20	0858		0902	No Flare Patrol													
		20	0917		0923	No Flare Patrol													
0140	KHAR	20	1015E		1022U	S13	E83		01	26.7	7U	SF		2	V				O
0141	KHAR	20	1022U		1030	N06	E27	7654	01	22.4	8U	SF		2	V				D
		20	2107		2141	No Flare Patrol													
		20	2154		2202	No Flare Patrol													
0142	HOLL	20	2210E	2220U	2223D	N07	E24	7654	01	22.7	13D	SF	B 8.3	2	E		26		
		20	2244		2323	No Flare Patrol													
		20	2353		2400	No Flare Patrol													
		21	0000		0052	No Flare Patrol													
		21	0531		0749	No Flare Patrol													
		21	0801		0830	No Flare Patrol													
0143	LEAR	21	0816	0821	0838	N07	E17	7654	01	22.6	22	SF		3	E		19		
0144	HTPR	21	0831E	0837	0859	N13	E15	7654	01	22.5	28D	SF			C	0837	40	0.4	
0145	HTPR	21	1014	1020	1026	N11	E16	7654	01	22.6	12	SN			C	1020	70	0.8	D
0146		21	11383	1143	1156	N08	E14	7654	01	22.5	18	1N					280	3.0	E
	HTPR	21	1138	1143	1156	N11	E14	7654	01	22.5	18	1N			C	1143	280	3.0	E
	KANZ	21	1141		1145D	N05	E15	7654	01	22.6	4D	SF		2	C				
0147	HOLL	21	1612	1612	1617	N08	E12	7654	01	22.6	5	SF	B 4.0	3	E		19		F
0148	HOLL	21	2103	2103	2110	N07	E08	7654	01	22.5	7	SF	B 4.6	3	E		14		
0149	LEAR	21	2317	2324	2334	N06	E07	7654	01	22.5	17	SF	B 7.8	3	E		26		
0150		22	01053	01081	0116	N10	E01	7654	01	22.1	11	SN	C 1.6				26	0.1	D
	LEAR	22	0105	0108	0121	N10	E00	7654	01	22.0	16	SF	C 1.6	3	E		40		
	MITK	22	0108	0109	0110	N09	E02	7654	01	22.2	2	SN			C	0109	13	0.1	D
0151	LEAR	22	0411	0414	0420	N11	W26	7657	01	20.2	9	SF		3	E		26		
0152	KANZ	22	0720	0724	0736	N07	W01	7654	01	22.2	16	SF		2	C				
0153	KANZ	22	0732	0736	0744	N08	W02	7654	01	22.2	12	SF		2	C				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0154	HTPR	22	1132	1133	1145	N10	W08	7654	01	21.9	13	SF			C	1133	70	0.7	D
0155		22	1912	19201	1936	N08	W10	7654	01	22.0	24	SF	B 6.2				26		
	RAMY	22	1912	1920	1941	N08	W10	7654	01	22.0	29	SF	B 6.2	4	E		28		
	HOLL	22	1912	1921	1931	N09	W09	7654	01	22.1	19	SF		3	E		24		
		22	2010		2257	No Flare Patrol													
0156		23	1246	1302	1334	N06	W16	7654	01	22.3	48	1F	C 2.9				142		FH
	KANZ	23	1246	1302	1334	N05	W18	7654	01	22.2	48	1F		2	C				
	SVTO	23	1250E	1302U	1323D	N06	W12	7654	01	22.6	33D	1F	C 2.9	2	E		134		F
	RAMY	23	1306E	1306U	1333	N06	W17	7654	01	22.3	27D	1F		3	E		151		H
		23	2312		2313	No Flare Patrol													
0157	ISTA	24	0736		0815	N08	E48	7661	01	27.9	39	1N							F
0158	KANZ	24	1008	1016	1024D	N05	W27	7654	01	22.4	16D	SF		2	C				
0159	RAMY	24	1236	1236	1242	N07	W32	7654	01	22.1	6	SF	C 1.1	3	E		19		F
0160	RAMY	24	1311	1313	1319	N13	W04	7658	01	24.2	8	SF	C 1.2	3	E		33		F
		24	1750		2139	No Flare Patrol													
0161	HOLL	24	2232	2232	2238	N07	W33	7654	01	22.5	6	SF	B 8.4	3	E		14		
0162	LEAR	25	0103	0103	0121	N08	W34	7654	01	22.5	18	SF	C 1.8	3	E		39		F
0163	LEAR	25	0343	0345	0355	N13	W12	7658	01	24.2	12	SF	C 1.2	3	E		23		F
0164		25	08121	08142	0820	N11	W37	7654	01	22.5	8	SF	B 6.4				18		F
	KANZ	25	0812	0816	0824	N11	W37	7654	01	22.5	12	SF		2	C				
	SVTO	25	0813	0814	0817	N11	W37	7654	01	22.5	4	SF	B 6.4	3	E		18		F
0165	KANZ	25	0908	0908	0916	N06	E34	7661	01	27.9	8	SF		2	C				
0166	KANZ	25	0952	0952	1000	N18	E77		01	31.3	8	SF		2	C				
0167		25	1246*	13041	1312	N06	E30	7661	01	27.8	26	SF	B 7.6				25		
	SVTO	25	1246	1305	1313	N07	E29	7661	01	27.7	27	SF		3	E		27		
	KANZ	25	1252	1304	1312	N05	E31	7661	01	27.8	20	SF		2	C				
	RAMY	25	1302	1305	1311	N06	E31	7661	01	27.9	9	SF	B 7.6	4	E		23		
0168		25	13543	13543	1401	N11	W41	7654	01	22.5	7	SF	B 9.9				12		
	RAMY	25	1354	1354	1401	N11	W41	7654	01	22.5	7	SF	B 9.9	4	E		12		
	KANZ	25	1357	1357	1401	N11	W41	7654	01	22.5	4	SF		2	C				
0169		25	14136	14205	1428	N09	W47	7654	01	22.1	15	SF					44	1.0	EF
	KANZ	25	1413	1425	1429D	N08	W46	7654	01	22.1	16D	SF		2	C				
	HTPR	25	1417	1420	1427	N11	W47	7654	01	22.0	10	SN			C	1420	70	1.0	E
	SVTO	25	1419	1422	1429	N09	W47	7654	01	22.1	10	SF		3	E		18		F
0170		25	15012	15022	1512	N09	W44	7654	01	22.3	11	SN	C 1.2				36	0.9	E
	HTPR	25	1501	1502	1509	N10	W47	7654	01	22.1	8	SN			C	1502	60	0.9	E
	RAMY	25	1503	1504	1514	N08	W42	7654	01	22.5	11	SF	C 1.2	4	E		12		
0171	HOLL	25	1602E	1604	1614	N12	W20	7658	01	24.2	12D	SF	C 1.1	2	E		30		F
0172		25	16402	16421	1654	N10	W49	7654	01	22.0	14	SF	C 1.4				50		
	HOLL	25	1640	1643	1657	N10	W49	7654	01	22.0	17	SF	C 1.4	3	E		71		
	RAMY	25	1642	1642	1650	N09	W49	7654	01	22.0	8	SF		3	E		29		
0173	RAMY	25	1651	1652	1657	N09	W47	7654	01	22.2	6	SF		3	E		19		
0174	HOLL	25	1812	1833	1928	N09	W48	7654	01	22.1	76	1N	M 1.6	3	E		205		FU
0175	RAMY	25	1812	1850	1937	N09	W48	7654	01	22.1	85	1N		3	E		138		EF

Hα SOLAR FLARES

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0176	HOLL	25	2007	2007	2010	N11	W49	7654	01	22.1	3	SF		3	E		16		
0177		25	2042	20421	2052	N08	W48	7654	01	22.3	10	SF	C 3.1				16		F
	RAMY	25	2042	2042	2048	N07	W48	7654	01	22.3	6	SF		3	E		11		F
	HOLL	25	2042	2043	2056	N10	W48	7654	01	22.2	14	SF	C 3.1	3	E		20		F
0178	HOLL	25	2057	2057	2104	N11	W51	7654	01	22.0	7	SF		3	E		10		
0179	HOLL	25	2156	2158	2206	N10	W49	7654	01	22.2	10	SF	B 9.2	3	E		30		F
0180	HOLL	25	2228	2236	2246	N06	W49	7654	01	22.3	18	SF	C 1.2	3	E		41		F
0181	HOLL	25	2311	2315	2320	N11	W53	7654	01	22.0	9	SF		4	E		16		F
0182	LEAR	26	0113	0118	0130	N07	W50	7654	01	22.3	17	SF	C 2.5	3	E		39		F
0183	LEAR	26	0140E	0142U	0227D	N07	W50	7654	01	22.3	47D	SF	C 6.5	2	E		80		F
0184	LEAR	26	0540	0540	0553	N08	W56	7654	01	22.0	13	SF	C 1.4	3	E		26		F
0185	LEAR	26	0638	0651	0658	N07	W56	7654	01	22.1	20	SF	C 1.8	3	E		21		F
0186	KANZ	26	0725	0733	0745	N08	W56	7654	01	22.1	20	SF		2	C				
0187	HTPR	26	0938	0940	0950	N10	W56	7654	01	22.2	12	SF			C	0940	30		ET
0188	HTPR	26	1004	1006	1010	N08	W60	7654	01	21.9	6	SF			C	1006	30		ET
0189	HTPR	26	1135	1138	1152	N08	W60	7654	01	22.0	17	SN			C	1138	100		ET
0190		26	1352	13535	1410	N10	W34	7658	01	24.0	18	SF	B 5.9				24		
	RAMY	26	1352	1353	1410	N10	W33	7658	01	24.1	18	SF		3	E		17		
	SVTO	26	1352	1358	1411	N09	W34	7658	01	24.0	19	SF	B 5.9	3	E		31		
0191	RAMY	26	1606	1607	1620	N11	W35	7658	01	24.0	14	SF		3	E		13		F
0192		26	1613	1649	1659	N11	W63	7654	01	21.9	46	SF	C 2.5				46		F
	RAMY	26	1613	1649	1659	N10	W61	7654	01	22.1	46	SF	C 2.5	3	E		53		F
	HOLL	26	1648E	1659U	1755D	N12	W65	7654	01	21.8	67D	SF		2	E		38		
0193	RAMY	26	1720	1722	1726	N08	W60	7654	01	22.2	6	SF	C 1.3	3	E		14		F
0194	HOLL	26	1852	1852	1906	N09	W62	7654	01	22.1	14	SF	C 1.5	3	E		35		
0195		26	2057	20571	2105	N08	W62	7654	01	22.2	8	SF	B 7.2				24		
	RAMY	26	2057	2057	2107	N08	W62	7654	01	22.2	10	SF	B 7.2	3	E		22		
	HOLL	26	2057	2058	2103	N09	W62	7654	01	22.2	6	SF		3	E		27		
0196	HOLL	26	2119	2120	2125	N09	W63	7654	01	22.1	6	SF	B 8.7	3	E		28		
0197	HOLL	26	2146	2146	2156	N09	W64	7654	01	22.1	10	SF		3	E		12		
0198	HOLL	26	2237	2240	2243	N10	W68	7654	01	21.8	6	SF	C 1.6	3	E		86		
0199		27	0502	0510	0546	N12	W64	7654	01	22.4	44	1N	M 2.7				246	9.5	
	MITK	27	0502	0510	0544	N12	W62	7654	01	22.5	42	2N			C	0510	403	9.5	
	LEAR	27	0518E	0528U	0549	N11	W65	7654	01	22.3	31D	SN	M 2.7	2	E		90		
0200		27	13408	13475	1401	N07	W70	7654	01	22.3	21	SF	C 2.7				66		
	KANZ	27	1340	1352	1404	N06	W69	7654	01	22.4	24	SF		2	C				
	HTPR	27	1344	1347	1401	N08	W70	7654	01	22.3	17	SF			C	1347	90		
	SVTO	27	1348	1349	1357	N07	W71	7654	01	22.2	9	SF		3	E		36		
	RAMY	27	1348	1349	1403	N07	W72	7654	01	22.2	15	SF	C 2.7	3	E		71		
0201		27	14404	1448*	1501	N10	W68	7654	01	22.5	21	SF					60		
	HTPR	27	1440	1459	1501	N08	W70	7654	01	22.4	21	SF			C	1459	60		
	KANZ	27	1444	1448	1456D	N13	W66	7654	01	22.6	12D	SF		2	C				

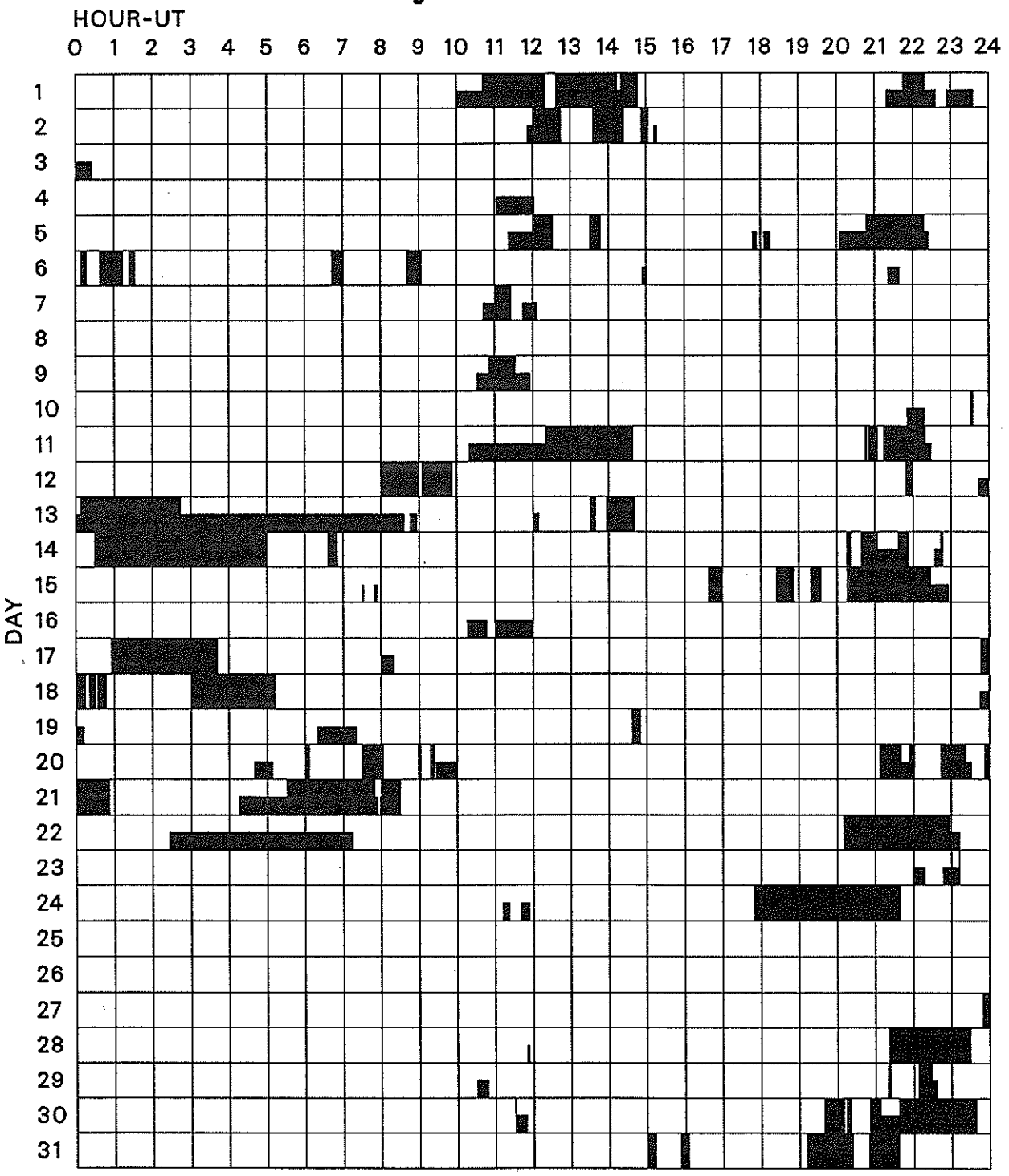
Hα SOLAR FLARES

JANUARY 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	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0202		27	16051	16061	1610	N08	W74	7654	01	22.1	5	SF	C 2.1				24		H
	HOLL	27	1605	1607	1610	N08	W73	7654	01	22.2	5	SF		3	E		35		H
	RAMY	27	1606	1606	1610	N07	W74	7654	01	22.1	4	SF	C 2.1	3	E		14		
0203	HOLL	27	1624	1625	1639	N11	W71	7654	01	22.3	15	SF		3	E		29		
0204	RAMY	27	2000E	2003U	2012	N07	W77	7654	01	22.1	12D	SF	C 1.6	3	E		20		
0205		27	2103	2107	2117	N09	W73	7654	01	22.4	14	SF	C 2.1				30		F
	RAMY	27	2103E	2105U	2118	N08	W73	7654	01	22.4	15D	SF		3	E		33		F
	HOLL	27	2103	2107	2116	N10	W73	7654	01	22.4	13	SF	C 2.1	3	E		27		
0206	HOLL	27	2339	2342	2345	N08	W80	7654	01	22.0	6	SF	B 7.8	3	E		42		
		27	2350		2400	No Flare Patrol													
0207	RAMY	28	1513	1516	1523	S09	E82	7664	02	3.8	10	SF		3	E		23		
0208	RAMY	28	1625	1626	1631	N08	W85	7654	01	22.3	6	SF	M 1.8	3	E		20		
0209	RAMY	28	1631	1632	1638	N08	W84	7654	01	22.4	7	SF		3	E		11		
0210	RAMY	28	1947	1949	1954	S09	E79	7664	02	3.7	7	SF	C 4.5	3	E		20		
		28	2122		2330	No Flare Patrol													
0211	VORO	29	0132	0136	0155	S18	W71		01	23.6	23	SF		1	C	0136	63	1.5	DJ
0212		29	09051	0909	0913	N10	W70	7658	01	24.1	8	SF	C 6.6				49		
	KANZ	29	0905		0909D	N09	W69	7658	01	24.2	4D	SF		1	C				
	SVTO	29	0906	0909	0913	N12	W71	7658	01	24.0	7	SF	C 6.6	3	E		49		
0213	HTPR	29	1049E	1054	1106	N10	W90	7654	01	22.7	17D	SF			C	1054			
0214	KANZ	29	1054E	1058	1114	N05	W79	7654	01	23.5	20D	SF		2	C				
0215	HTPR	29	1254	1256	1307	N10	W90	7654	01	22.8	13	SF			C	1256			
		29	2121		2123	No Flare Patrol													
		29	2208		2229	No Flare Patrol													
		30	1131		1132	No Flare Patrol													
		30	1939		2010	No Flare Patrol													
		30	2014		2022	No Flare Patrol													
		30	2051		2107	No Flare Patrol													
		30	2137		2339	No Flare Patrol													
0216	KANZ	31	1000	1000	1008	S14	W25		01	29.5	8	SF		2	C				
0217	KANZ	31	1048	1048	1104	N05	E69	7665	02	5.6	16	SF		2	C				
		31	1500		1513	No Flare Patrol													
		31	1553		1605	No Flare Patrol													
		31	1911		2024	No Flare Patrol													
		31	2049		2137	No Flare Patrol													

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

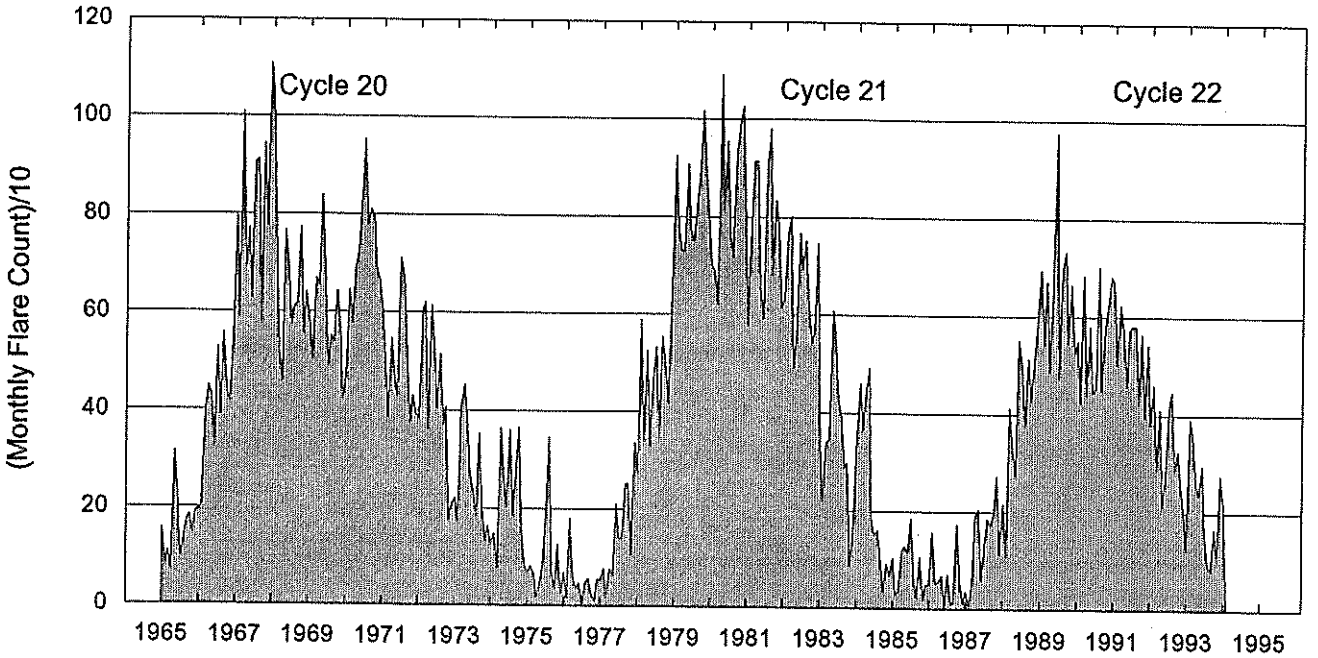
JANUARY 1994



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
Haute Province
Holloman
Istanbul
Kanzelhoehe
Kharkov
Kodiakanl
Larissa
Learmonth
Mitaka
Palehua
Ramey
San Vito
Tashkent
Voroshilov

Monthly Counts of Grouped Solar Flares
Jan 1965 - Jan 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												217

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
Outstanding Occurrences

JANUARY 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	204	IZMI	44	NS	0700.0E		300.0D		10.0		
	127	TORN	43	NS	0800.0		380.0U		1.0		V=0?,DISTURBED
	260	ONDR	43	NS	0950.0	1157.5	130.0	200.0			
	610	LEAR	8	S	0156.0	0157.0	1.0	420.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0156.0	0157.0	1.0	370.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0157.2	0157.5	0.5	53.0			0
	245	LEAR	8	S	0516.0	0516.0	U	53.0			QL=4 ST=2 TYP=3
	204	IZMI	40	F	0700.0	0703.0	22.0	48.0			
	33	UPIC	40	F	0922.5	0928.0	18.0				
	204	IZMI	41	F	1024.0	1024.6	12.0	35.0			
	15400	SVTO	8	S	1221.0	1221.0	1.0	94.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1221.0	1221.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1834.0	1834.0	1.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2312.8	2313.1	6.0	10.0			0
	2800	HIRA	3	S	2312.8	2313.4	3.0	43.0	24.0		WR
	410	LEAR	8	S	2313.0	2313.0	U	45.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2313.0	2313.0	U	310.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2313.0	2313.0	1.0	160.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	2313.0	2313.0	1.0	28.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2313.0	2313.0	1.0	73.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2313.0	2313.0	U	27.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2313.0	2313.0	1.0	71.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2313.0	2313.0	1.0	140.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2313.0	2313.0	1.0	350.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2313.0	2313.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2313.0	2313.0	U	76.0			QL=4 ST=2 TYP=3
02	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	43	NS	0800.0		380.0U		5.0		V=1?,DISTURBED
	15400	LEAR	8	S	0234.0	0235.0	2.0	91.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0234.0	0235.0	2.0	69.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0234.0	0235.0	3.0	37.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0235.0	0235.0	U	46.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0235.0	0235.0	U	27.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0235.0	0235.0	U	25.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0235.0	0235.0	U	32.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	0235.0	0235.3	2.0	12.0	5.0		WR
	500	HIRA	42	SER	0235.1	0236.1	1.0	5.0			0
	245	LEAR	8	S	0238.0	0238.0	1.0	360.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0238.0	0238.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	1035.0	1035.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1035.0	1035.0	3.0	70.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1035.0	1035.0	U	67.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1038.5	1039.0	1.4	97.0			
	245	SVTO	8	S	1148.0	1148.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1148.0	1149.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1432.0	1432.0	1.0	58.0			QL=4 ST=3 TYP=3
	2800	PENT	4	S/F	2250.8	2253.9	5.2	108.3	38.0		
	8800	PALE	4	S/F	2251.0	2253.0	10.0	470.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2251.0	2253.0	10.0	450.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	2252.0	2253.0	9.0	220.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	2253.0	2254.0	3.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2253.0	2254.0	2.0	50.0			QL=4 ST=2 TYP=3
	2800	HIRA	45	C	2253.3	2253.8	3.0	87.0	50.0		0
	610	PALE	8	S	2254.0	2254.0	U	360.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2254.3	2255.2	1.3	14.0			0
03	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	127	TORN	44	NS	1020.0E		240.0D		2.0		V=1
	245	LEAR	8	S	0259.0	0259.0	U	61.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0259.0	0259.0	U	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0546.0	0547.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0818.0	0819.0	3.0	100.0			QL=2 ST=2 TYP=3
	204	IZMI	41	F	0834.5	0835.2	1.0	200.0			
	3013	IZMI	5	S	0854.0	0854.7	15.0	4.0	2.0		
	245	SVTO	8	S	1056.0	1057.0	1.0	49.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1113.0	1113.0	U	92.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1133.0	1137.0	6.0	250.0			
	245	SGMR	8	S	1256.0	1256.0	1.0	70.0			QL=4 ST=2 TYP=3

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

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
03	127	TORN	4	S/F	1307.0U		0.2U	460.0D	230.0		
	245	SGMR	8	S	1701.0	1701.0	U	110.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1730.0	1730.0	1.0	77.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1911.0	1911.0	U	63.0			QL=4 ST=2 TYP=3
04	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	44	NS	0700.0E		440.0D		5.0		V=1
	235	CUBA	44	NS	1600.0E		330.0D		16.0		
	280	CUBA	44	NS	1600.0E		330.0D		20.0		
	245	LEAR	43	NS	2334.0	0343.0	679.0	150.0			QL=4 ST=2 TYP=1
	245	PALE	44	NS	2340.0E	2347.0U	26.0D	50.0			QL=4 ST=2 TYP=1
	2800	HIRA	20	GRF	0153.0	0153.2	20.0	7.0	5.0		O
	2840	PEKG	21	GRF	0304.0	0306.0	11.0	29.0			
	2800	HIRA	41	F	0304.0	0305.7	10.5	23.0			O
	500	HIRA	1	S	0305.0	0305.5	1.5	3.0	2.0		O
	245	PALE	4	S/F	0307.0	0309.0	3.0	92.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0308.0	0309.0	1.0	90.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0844.0	0844.0	1.0	410.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0845.0	0845.0	1.0	31.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0848.0	0848.0	U	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0848.0	0848.0	U	44.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0849.0	0849.0	U	160.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	0900.0U		1.3U	30.0	20.0		
	127	TORN	4	S/F	0948.0U		1.4U	150.0	100.0		
	127	TORN	4	S/F	0953.0U		3.7U	260.0D	90.0		
	245	LEAR	8	S	0955.0	0956.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0955.0	0956.0	1.0	50.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0956.0	0956.5	1.0	31.0			
	3013	IZMI	5	S	1109.8	1110.3	6.0	13.0	5.0		
	245	LEAR	8	S	2332.0	2332.0	U	38.0			QL=4 ST=2 TYP=3
05	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	44	NS	0700.0E		440.0D		5.0		V=1
	33	UPIC	43	NS	0749.5	1402.0	419.5				
	260	ONDR	44	NS	0900.0E	1008.0	180.0D	506.0			
	235	CUBA	44	NS	1750.0E		170.0D		19.0		
	280	CUBA	44	NS	1750.0E		185.0D		22.0		
	245	PALE	8	S	0132.0	0132.0	U	74.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0151.0	0154.0	3.0	54.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0151.0	0154.0	3.0	680.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	0153.0	0155.0	2.0	46.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0153.9	0154.0	0.2	33.0			O
	610	LEAR	49	GB	0154.0	0154.0	U	850.0			QL=4 ST=2 TYP=6
	2800	HIRA	8	S	0154.2	0154.2	0.3	100.0			ML
	245	PALE	4	S/F	0220.0	0221.0	8.0	86.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0343.0	0344.0	2.0	150.0			QL=2 ST=2 TYP=3
	500	HIRA	8	S	0355.9	0356.0	0.4	86.0			O
	410	LEAR	8	S	0356.0	0356.0	U	240.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0558.0	0600.0	3.0	830.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0559.0	0601.0	2.0	110.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0600.8	0601.0	6.5	72.0			WL
	410	LEAR	8	S	0605.0	0606.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0646.0	0650.0	8.0	67.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0646.0	0650.0	8.0	36.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0646.0	0649.0	8.0	150.0			QL=4 ST=3 TYP=3
	4995	LEAR	4	S/F	0646.0	0655.0	10.0	33.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0646.7	0649.9	6.0	30.0	14.0		O
	245	LEAR	4	S/F	0647.0	0650.0	7.0	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0647.0	0655.0	9.0	27.0			QL=4 ST=2 TYP=3
	2840	PEKG	21	GRF	0647.0	0654.0	43.0	24.0			
	500	HIRA	45	C	0647.5	0650.1	9.0	29.0	15.0		WL
	610	SVTO	8	S	0700.0	0701.0	1.0	72.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0701.0	0701.0	1.0	60.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0704.0	0704.2	1.6	70.0			
	127	TORN	46	C	0725.0U	0726.0U	3.0U	460.0	80.0		
	410	LEAR	49	GB	0741.0	0742.0	3.0	8000.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0741.0	0742.0	2.0	2100.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0741.0	0742.0	3.0	7800.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0742.0	0743.0	2.0	92.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	245	LEAR	49	GB	0742.0	0742.0	1.0	2300.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	0747.0	0747.0	U	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0823.0	0823.0	U	32.0			QL=4 ST=2 TYP=3
	3013	IZMI	41	F	0826.0	0827.4	9.0	12.0			
	245	LEAR	49	GB	0827.0	0827.0	1.0	550.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0827.0	0827.0	1.0	63.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0827.0	0827.0	1.0	93.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0827.0	0827.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0827.0	0827.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0827.0	0827.0	1.0	550.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0830.0	0830.0	1.0	460.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0830.0	0830.0	1.0	53.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0830.0	0830.0	U	28.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0830.0	0830.0	1.0	470.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0830.0	0830.0	1.0	68.0			QL=4 ST=2 TYP=3
	127	TORN	47	GB	0846.0U		10.0U	370.0	40.0		
	3013	IZMI	1	S	0900.5	0901.1	1.5	4.0	2.0		
	410	LEAR	49	GB	0902.0	0906.0	4.0	1200.0			QL=4 ST=2 TYP=6
	245	LEAR	4	S/F	0902.0	0902.0	4.0	260.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0902.0	0906.0	4.0	1200.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0902.0	0902.0	1.0	260.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0904.0	0906.0	3.0	1400.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	0904.0	0904.5	3.0	160.0			
	610	SVTO	49	GB	0905.0	0906.0	1.0	1400.0			QL=4 ST=2 TYP=6
	127	TORN	7	C	0921.0U	0922.0U	1.3U	100.0	50.0		
	204	IZMI	41	F	0921.5	0927.0	6.0	130.0			
	536	ONDR	48	C	1015.5	1016.5	3.0	155.0			
	610	LEAR	8	S	1017.0	1017.0	U	420.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1017.0	1017.0	1.0	450.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1019.0	1019.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1059.0	1059.0	1.0	55.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1102.0	1102.0	U	96.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1105.0	1108.0	3.0	450.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1106.0	1106.0	1.0	260.0			QL=4 ST=3 TYP=3
	536	ONDR	8	S	1107.0	1107.2	0.5	158.0			
	410	SVTO	8	S	1111.0	1111.0	U	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1314.0	1315.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1314.0	1315.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1315.0	1315.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1315.0	1315.0	U	130.0			QL=4 ST=2 TYP=3
	127	TORN	47	GB	1347.0U	1349.0U	4.3U	880.0	150.0		
	245	SGMR	4	S/F	1400.0	1402.0	3.0	270.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1401.0	1402.0	1.0	44.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1401.0	1402.0	1.0	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1401.0	1402.0	1.0	43.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1401.0	1402.0	2.0	220.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1401.0	1402.0	1.0	51.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1401.0	1402.0	2.6				
	1415	SGMR	8	S	1531.0	1531.0	U	99.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1702.0	1702.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1748.0	1750.0	8.0	140.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1748.0	1750.0	8.0	56.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1748.0	1756.0	10.0	17.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	1749.0	1756.0	9.0	46.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1749.0	1750.0	3.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1749.0	1750.0	1.0	140.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1751.0	1756.0	7.0	54.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1756.0	1756.0	1.0	54.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1928.0	1929.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2155.0	2156.0	4.0	430.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2155.0	2156.0	4.0	270.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2318.0	2319.5	11.0	38.0			WL
	245	LEAR	8	S	2324.0	2324.0	1.0	96.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2324.0	2325.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2324.0	2324.0	1.0	94.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2324.0	2325.0	1.0	74.0			QL=4 ST=2 TYP=3
06	204	IZMI	44	NS	0700.0E		300.0D		10.0		
	127	TORN	43	NS	0800.0		346.0		3.0		V=1

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 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
06	260	ONDR	44	NS	0900.0E	1023.5	180.0D	50.0			
	280	CUBA	44	NS	1400.0E		440.0D		22.0		
	235	CUBA	44	NS	1440.0E		400.0D		14.0		
	4995	LEAR	4	S/F	0400.0	0405.0	8.0	160.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0400.0	0405.0	8.0	200.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	0405.2	0405.4	1.0	12.0	7.0		WR
	2800	HIRA	29	PBI	0411.5E	0411.5	10.5U	7.0	3.0		WR
	2840	PEKG	3	S	0604.0	0610.1	10.0	11.8			
	245	LEAR	8	S	0607.0	0607.0	U	150.0			QL=4 ST=2 TYP=3
	2800	HIRA	4	S/F	0612.6	0614.2	3.8	22.0	10.0		O
	500	HIRA	46	C	0612.6	0614.6	3.7	19.0	6.0		O
	245	LEAR	4	S/F	0613.0	0616.0	4.0	170.0			QL=4 ST=2 TYP=5
	2695	LEAR	8	S	0613.0	0614.0	2.0	35.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0614.0	0614.0	U	22.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0614.0	0614.0	U	29.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0757.0	0758.0	1.0	39.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0757.0	0758.0	1.0	36.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0757.0	0758.0	7.0	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0757.0	0758.0	7.0	30.0			QL=4 ST=2 TYP=3
	3013	IZMI	5	S	0757.0	0758.2	3.5	4.0	2.0		
	245	LEAR	8	S	0809.0	0809.0	1.0	450.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0809.0	0809.0	U	400.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0809.2	0810.0	10.0	380.0			
	410	SVTO	8	S	0810.0	0810.0	U	62.0			QL=4 ST=2 TYP=3
	3013	IZMI	7	C	1034.5	1035.5	60.0	41.0			
	4995	SVTO	4	S/F	1237.0	1238.0	3.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1237.0	1238.0	3.0	99.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1237.0	1237.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1934.0	1934.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1934.0	1934.0	1.0	57.0			QL=4 ST=2 TYP=3
07	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	260	ONDR	44	NS	0900.0E	1109.0	180.0D	80.0			
	235	CUBA	44	NS	1525.0E		324.0D		22.0		
	280	CUBA	44	NS	1525.0E		324.0D		18.0		
	2800	HIRA	8	S	0042.1	0042.2	0.5	19.0			O
	245	LEAR	4	S/F	0257.0	0300.0	4.0	98.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0257.0	0258.0	7.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0258.0	0300.0		110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0258.0	0258.0	2.0	70.0			QL=4 ST=2 TYP=3
	500	HIRA	45	C	0258.5	0259.0	1.0	6.0	3.0		WL
	2800	HIRA	1	S	0538.3	0539.5	1.8	9.0	4.0		O
	245	SVTO	8	S	0806.0	0807.0	1.0	71.0			QL=4 ST=2 TYP=3
	536	ONDR	8	S	0929.0	0929.5	1.0	50.0U			
	3013	IZMI	7	C	0938.8	0942.0	13.0	45.0			
	2695	LEAR	8	S	0941.0	0942.0	1.0	40.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0941.0	0942.0	1.0	100.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0941.0	0942.0	1.0	230.0			QL=4 ST=3 TYP=3
	8800	LEAR	8	S	0941.0	0942.0	1.0	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0941.0	0942.0	1.0	220.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0941.0	0942.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0941.0	0942.0	1.0	170.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0941.0	0942.0	1.0	45.0			QL=4 ST=2 TYP=3
	536	ONDR	8	S	0944.0	0944.1	0.5	60.0U			
	245	SVTO	8	S	1103.0	1103.0	U	80.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1125.0	1125.0	U	55.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1127.0	1127.0	U	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1127.0	1127.0	U	42.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1127.0	1127.0	U	33.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1127.0	1127.0	U	39.0			QL=4 ST=2 TYP=3
	3000	ONDR	6	S	1127.0	1127.2	2.0				
	3013	IZMI	7	C	1127.2	1127.5	3.0	37.0	9.0		
	808	ONDR	8	S	1128.0	1128.1	0.5				
	3000	ONDR	4	S/F	1232.5	1235.0	5.0				
	1415	SVTO	4	S/F	1233.0	1235.0	3.0	53.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1233.0	1234.0	4.0	250.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1234.0	1235.0	2.0	70.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1234.0	1235.0	1.0	29.0			QL=4 ST=2 TYP=3
	808	ONDR	5	S	1234.5	1235.5	3.0				

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	9500	CUBA	1	S	1502.8	1503.3	1.4	5.0	2.0		
	245	LEAR	8	S	2240.0	2240.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2240.0	2240.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2339.0	2340.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2340.0	2340.0	U	100.0			QL=4 ST=2 TYP=3
08	245	LEAR	43	NS	0255.0	0547.0	479.0	100.0			QL=4 ST=3 TYP=1
	245	LEAR	43	NS	0547.0	0547.0	1093.0	100.0			QL=4 ST=3 TYP=1
	245	SVTO	43	NS	0645.0	0656.0	11.0	76.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		40.0		
	127	TORN	44	NS	0700.0E		440.0D		4.0		V=1
	260	ONDR	44	NS	0900.0E	1024.0	180.0D	160.0			
	245	PALE	49	GB	0331.0	0331.0	1.0	610.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0457.0	0457.0	U	130.0			QL=4 ST=3 TYP=3
	500	HIRA	42	SER	0547.3	0549.1	3.0	16.0			O
	245	SGMR	8	S	1404.0	1404.0	U	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1404.0	1404.0	U	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1456.0	1456.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1456.0	1456.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1508.0	1508.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1541.0	1541.0	U	52.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1927.0	1928.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1928.0	1928.0	U	82.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1938.0	1938.0	U	80.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2114.0	2114.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2348.0	2348.0	U	170.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2348.0	2348.0	1.0	200.0			QL=4 ST=2 TYP=3
09	245	LEAR	43	NS	0618.0	0701.0	276.0	160.0			QL=4 ST=3 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	44	NS	0700.0E		440.0D		3.0		V=1
	260	ONDR	44	NS	0900.0E	1009.0	180.0D	190.0			
	245	LEAR	4	S/F	0050.0	0053.0	3.0	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0251.0	0251.0	U	55.0			QL=4 ST=2 TYP=3
	2800	HIRA	45	C	0402.8	0404.8	6.0	9.0	4.0		O
	245	SVTO	8	S	0701.0	0701.0	U	160.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0836.0	0840.5	11.0	11.0			
	245	SGMR	8	S	1546.0	1546.0	2.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1724.0	1724.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1826.0	1827.0	2.0	83.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1827.0	1827.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1915.0	1916.0	1.0	37.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1915.0	1916.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1939.0	1939.0	1.0	67.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2243.2	2247.1	10.4	39.1	15.0		
	2800	HIRA	46	C	2244.6	2247.3	9.5	32.0	13.0		O
	1415	LEAR	4	S/F	2245.0	2247.0	4.0	67.0			QL=4 ST=3 TYP=3
	2695	LEAR	4	S/F	2246.0	2247.0	3.0	44.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	2246.0	2247.0	3.0	43.0			QL=4 ST=2 TYP=2
	1415	PALE	20	GRF	2246.0	2246.0	3.0	72.0			QL=4 ST=2 TYP=2
	4995	LEAR	4	S/F	2247.0	2247.0	3.0	37.0			QL=4 ST=2 TYP=3
	4995	PALE	20	GRF	2247.0	2250.0	3.0	35.0			QL=2 ST=2 TYP=2
	15400	PALE	20	GRF	2247.0	2247.0	U	28.0			QL=4 ST=2 TYP=2
	8800	PALE	20	GRF	2247.0	2247.0	U	25.0			QL=4 ST=2 TYP=2
10	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	44	NS	0900.0E		320.0D		2.0		V=1
	260	ONDR	44	NS	0900.0E	1130.0	180.0D	100.0			
	280	CUBA	44	NS	1410.0E		285.0D		23.0		
	235	CUBA	44	NS	1410.0E		343.0D		15.0		
	204	IZMI	41	F	1001.0	1001.3	1.0	100.0			
	127	TORN	7	C	1130.3	1130.7	1.2	90.0	50.0		
	245	SGMR	8	S	1446.0	1446.0	U	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1446.0	1446.0	U	60.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1718.0	1719.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1718.0	1718.0	U	36.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2020.0	2021.0	7.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2158.0	2158.0	1.0	79.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
11	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	127	TORN	43	NS	0750.0		400.0		5.0		V=1
	260	ONDR	44	NS	0900.0E	1037.0	180.0D	70.0			
	245	PALE	8	S	0347.0	0347.0	1.0	42.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0531.0	0539.0	45.0	111.0			
	245	PALE	8	S	2212.0	2212.0	2.0	59.0			QL=4 ST=2 TYP=3
12	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	260	ONDR	44	NS	0900.0E	1124.0	180.0D	75.0			
	245	SGMR	8	S	1308.0	1308.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1308.0	1308.0	1.0	56.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	1326.0	1326.3	1.6	40.0	5.0		
	245	PALE	8	S	1824.0	1824.0	U	290.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1824.0	1824.0	U	280.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1952.0	1953.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1952.0	1953.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2227.0	2227.0	1.0	64.0			QL=4 ST=2 TYP=3
13	245	LEAR	43	NS	0006.0	0006.0	649.0	78.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		15.0		
	127	TORN	43	NS	0747.0		243.0		11.0		V=1
	260	ONDR	44	NS	0900.0E	0904.0	180.0D	65.0			
	245	PALE	43	NS	2117.0	2159.0	106.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2303.0	0157.0	712.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	8	S	0006.0	0006.0	1.0	73.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0733.0	0737.5	7.5	12.0			
	245	SGMR	8	S	1656.0	1656.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1914.0	1914.0	2.0	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1914.0	1914.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1941.0	1941.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1948.0	1948.0	U	60.0			QL=4 ST=2 TYP=3
14	245	PALE	43	NS	0237.0	0337.0	74.0	100.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		30.0		
	260	ONDR	44	NS	0900.0E	1032.0	180.0D	60.0			
	127	TORN	44	NS	0920.0E		320.0D		7.0		V=1
	245	PALE	8	S	0157.0	0157.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0343.0	0343.0	1.0	4000.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	0818.0	0819.0	4.0	16.0			
15	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	260	ONDR	44	NS	0900.0E	1057.0	180.0D	35.0			
	4995	PALE	8	S	0046.0	0046.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0905.0	0905.0	U	72.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	1104.0	1114.5	20.0	30.0			
16	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	260	ONDR	44	NS	0900.0E	1009.5	180.0D	70.0			
	2840	PEKG	23	GRF	0643.0	0700.0	17.0	48.0			
	500	HIRA	42	SER	0648.8	0648.9	1.5	370.0			O
	2800	HIRA	45	C	0649.6	0700.9	15.0	29.0	20.0		O
	4995	LEAR	4	S/F	0656.0	0700.0	8.0	67.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0656.0	0700.0	7.0	54.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0656.0	0656.0	U	25.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0656.0	0700.0	11.0	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0700.0	0700.0	2.0	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0700.0	0700.0	2.0	40.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0700.0	0700.0	3.0	59.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0700.0	0700.0	1.0	43.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1322.0	1324.0	2.0	94.0			QL=2 ST=2 TYP=5
	33	UPIC	45	C	1327.9	1329.6	2.9				
	2800	HIRA	47	GB	2301.0	2317.6	45.0	177.0	78.0		O
	500	HIRA	46	C	2302.0	2322.6	36.0	29.0	6.0		O
	8800	LEAR	49	GB	2307.0	2317.0	20.0	920.0			QL=4 ST=2 TYP=7
	4995	LEAR	4	S/F	2307.0	2317.0	21.0	500.0			QL=4 ST=2 TYP=5
	2695	LEAR	4	S/F	2307.0	2317.0	22.0	190.0			QL=4 ST=2 TYP=5
	8800	PALE	49	GB	2307.0	2317.0	27.0	1200.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	2307.0	2317.0	27.0	1700.0			QL=4 ST=2 TYP=7
	2695	PALE	4	S/F	2307.0	2317.0	21.0	180.0			QL=4 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
16	4995	PALE	49	GB	2307.0	2317.0	23.0	610.0			QL=4 ST=2 TYP=7
	15400	LEAR	49	GB	2307.0	2317.0	36.0	1400.0			QL=4 ST=2 TYP=7
	1415	LEAR	4	S/F	2308.0	2317.0	18.0	96.0			QL=4 ST=2 TYP=5
	1415	PALE	4	S/F	2308.0	2317.0	18.0	110.0			QL=4 ST=2 TYP=5
	410	PALE	8	S	2315.0	2316.0	2.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2316.0	2316.0	U	77.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	2316.0	2318.0	9.0	38.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	2316.0	2318.0	6.0	37.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2317.0	2317.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2317.0	2317.0	1.0	57.0			QL=4 ST=2 TYP=3
17	127	TORN	43	NS	0700.0		460.0		3.0		V=1
	280	CUBA	44	NS	1342.0E		363.0D		15.0		
	235	CUBA	44	NS	1342.0E		418.0D		12.0		
	500	HIRA	1	S	0519.5	0519.6	1.0	2.0			O
	15400	SVTO	4	S/F	0719.0	0723.0	7.0	48.0			QL=2 ST=2 TYP=5
	500	HIRA	42	SER	0719.8	0720.0	1.6	700.0			O
	15400	LEAR	8	S	0720.0	0720.0	2.0	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0720.0	0720.0	1.0	28.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0721.0	0721.0	U	210.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0721.0	0721.0	U	53.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0814.0	0814.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0814.0	0814.0	U	550.0			QL=4 ST=2 TYP=6
	260	ONDR	42	SER	0910.0	0911.0	170.0	49.0			
	3013	IZMI	7	C	0912.0	0917.0	8.5	39.0			
	15400	LEAR	8	S	0914.0	0914.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0914.0	0915.0	1.0	36.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0914.0	0915.0	3.0	45.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0914.0	0915.0	3.0	120.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0914.0	0915.0	3.0	66.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0914.0	0915.0	1.0	60.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0916.0	0917.0	1.0	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0916.0	0917.0	1.0	45.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1452.0	1454.0	2.0	59.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1454.0	1454.0	2.0	56.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	1859.0	1900.0	4.0	28.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1859.0	1900.0	6.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1859.0	1900.0	6.0	70.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1900.0	1900.0	U	68.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1900.0	1900.0	1.0	57.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1900.1	1900.4	2.3	32.7	9.0		
	15400	LEAR	8	S	2320.0	2321.0	1.0	60.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2320.0	2321.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2320.0	2321.0	1.0	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2321.0	2321.0	U	26.0			QL=4 ST=2 TYP=3
18	204	IZMI	44	NS	0700.0E		120.0D		7.0		
	2800	HIRA	20	GRF	0112.5	0130.7	40.0	8.0	4.0		O
	245	LEAR	4	S/F	0155.0	0158.0	6.0	68.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0155.0	0158.0	3.0	40.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0157.8	0157.9	0.3	1.0			O
	9500	CUBA	2	S/F	1613.6	1614.9	2.4	13.0	6.0		
	245	PALE	8	S	1810.0	1810.0	U	100.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1810.0	1810.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2126.0	2126.0	1.0	57.0			QL=4 ST=2 TYP=3
	4995	PALE	49	GB	2157.0	2158.0	8.0	770.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2201.0	2201.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2314.0	2315.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2315.0	2315.0	U	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2342.0	2344.0	2.0	24.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2343.0	2344.0	2.0	63.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2344.3	2344.6	0.3	26.0			WR
19	2800	HIRA	45	C	0309.5	0312.6	5.0	16.0	8.0		O
	8800	LEAR	4	S/F	0310.0	0312.0	3.0	47.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0310.0	0312.0	3.0	31.0			QL=2 ST=2 TYP=3
	15400	PALE	4	S/F	0310.0	0312.0	3.0	14.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0312.0	0312.0	1.0	39.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0312.0	0312.0	1.0	23.0			QL=2 ST=2 TYP=3

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

JANUARY 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
19	15400	LEAR	8	S	0313.0	0313.0	U	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0827.0	0828.0	3.0	58.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0827.0	0828.0	3.0	19.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0828.0	0828.0	U	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0828.0	0828.0	U	39.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0828.0	0828.0	2.0	45.0			QL=2 ST=2 TYP=3
	3013	IZMI	5	S	0915.5	0917.7	5.0	3.0	2.0		
	3013	IZMI	5	S	1142.5	1145.2	8.0	13.0	6.0		
	4995	SVTO	4	S/F	1143.0	1145.0	3.0	57.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1144.0	1145.0	2.0	43.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1144.0	1145.0	2.0	16.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1144.0	1145.0	2.0	28.0			QL=2 ST=2 TYP=3
20	204	IZMI	43	NS	1146.5		15.0D		10.0		
	245	LEAR	8	S	0056.0	0056.0	1.0	92.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0056.0	0056.0	1.0	97.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0946.0	0946.2	0.5	110.0	55.0		
	260	ONDR	45	C	1049.0	1049.5	7.0	500.0			
	204	IZMI	7	C	1049.5	1049.7	0.9	300.0	160.0		
	127	TORN	4	S/F	1050.2	1050.5	1.3	250.0	120.0		
	127	TORN	4	S/F	1320.0	1320.6	1.6	70.0	30.0		
21	280	CUBA	44	NS	1400.0E		300.0D		15.0		
	235	CUBA	44	NS	1615.0E		245.0D		11.0		
	3013	IZMI	5	S	0758.0	0800.0	7.5	4.0	2.0		
	204	IZMI	42	SER	0839.5	0841.2	17.0	32.0			
	260	ONDR	8	S	1008.5	1008.7	1.0	85.0			
	260	ONDR	45	C	1015.0	1015.5	37.0	60.0			
	204	IZMI	42	SER	1033.0	1047.6	32.0	81.0			
	9500	CUBA	1	S	1611.7	1612.0	1.2	8.0	4.0		
	245	LEAR	8	S	2322.0	2322.0	1.0	79.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2322.0	2322.0	1.0	78.0			QL=4 ST=2 TYP=3
22	127	TORN	43	NS	0822.0	0859.2	80.0	50.0	7.0		V=1
	260	ONDR	44	NS	1133.0E	1134.0	2.0D	130.0			
	500	HIRA	46	C	0103.4	0103.5	5.0	18.0	5.0		WR
	2800	HIRA	20	GRF	0103.6	0104.5	9.5	10.0	6.0		O
	245	LEAR	8	S	0104.0	0104.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0104.0	0104.0	1.0	320.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0104.0	0104.0	U	30.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0246.0	0246.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0246.0	0246.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0423.0	0423.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0633.0	0633.0	1.0	330.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0633.0	0634.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0633.0	0633.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0633.0	0634.0	4.0	130.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0633.8	0633.9	0.3	164.0			WR
	204	IZMI	41	F	0859.3	0900.0	2.0	80.0			
	410	SVTO	8	S	1115.0	1115.0	U	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1115.0	1115.0	U	69.0			QL=4 ST=2 TYP=3
	204	IZMI	5	S	1134.0	1134.5	1.0	225.0	100.0		
	245	PALE	8	S	1916.0	1916.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1916.0	1916.0	1.0	290.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1916.0	1917.0	1.0	34.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1927.0	1928.0	5.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1927.8	1928.7	2.8	8.7	3.0		
	245	SGMR	8	S	1928.0	1928.0	U	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1928.2	1928.9	3.0	11.0	5.0		
	245	PALE	8	S	2041.0	2041.0	U	430.0			QL=4 ST=2 TYP=3
23	127	TORN	43	NS	0818.0		60.0		3.0		V=1
	204	IZMI	43	NS	0844.0		185.0D		5.0		
	127	TORN	43	NS	1242.0		80.0		1.0		V=1
	245	LEAR	8	S	0251.0	0251.0	2.0	52.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0835.0	0839.0	4.0	70.0			
	127	TORN	4	S/F	0911.6	0912.6	2.3	60.0	30.0		
	260	ONDR	42	SER	1005.0	1052.0	115.0	50.0			
	3013	IZMI	7	C	1018.0	1018.5	1.2	13.0	7.0		

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

JANUARY 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
23	245	SGMR	8	S	1422.0	1422.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1428.0	1428.0	U	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1428.0	1428.0	1.0	69.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1544.0	1544.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1822.0	1824.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1822.0	1824.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1930.0	1930.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1930.0	1930.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2045.0	2045.0	2.0	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2045.0	2045.0	2.0	91.0			QL=4 ST=2 TYP=3
24	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	127	TORN	43	NS	0750.0		410.0		25.0		V=2
	235	CUBA	44	NS	1510.0E		345.0D		12.0		
	280	CUBA	44	NS	1515.0E		374.0D		19.0		
	500	HIRA	42	SER	0430.6	0432.3	2.0	110.0			O
	245	LEAR	4	S/F	0719.0	0720.0	3.0	59.0			QL=4 ST=2 TYP=3
	3013	IZMI	41	F	0756.5	0758.0	3.0	4.0			
	3013	IZMI	7	C	0805.5	0806.5	5.0	8.0	4.0		
	410	LEAR	8	S	0824.0	0825.0	1.0	17.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0824.0	0825.0	1.0	84.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0824.0	0825.0	1.0	21.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0824.0	0825.0	1.0	77.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0905.0	0905.0	U	67.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0905.0	0905.0	U	97.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0928.0	0929.0	1.0	72.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0928.0	0928.0	1.0	800.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0928.0	0929.0	1.0	86.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	0928.0	0928.0	1.0	2300.0			QL=4 ST=2 TYP=6
	260	ONDR	42	SER	0928.0	0928.2	152.0	50.0			
	204	IZMI	5	S	0928.5	0929.0	1.5	7.0	3.0		
	204	IZMI	41	F	0929.0	0929.2	2.0	157.0			
	410	LEAR	8	S	1023.0	1024.0	2.0	69.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	1122.0	1229.4	145.0				
	1415	SVTO	8	S	1228.0	1228.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1235.0	1235.0	1.0	260.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1235.0	1235.0	1.0	170.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1245.0	1245.0	2.0	28.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1245.0	1245.0	2.0	63.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1245.0	1245.0	U	20.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1245.0	1245.0	U	46.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1247.0	1247.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1247.0	1247.0	U	290.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	1900.0	1900.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1900.0	1900.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1900.0	1900.0	1.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1900.0	1900.0	1.0	230.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	2305.8	2306.0	1.5	128.0	20.0		O
	410	LEAR	8	S	2306.0	2306.0	U	99.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2306.0	2306.0	U	48.0			QL=4 ST=2 TYP=3
25	127	TORN	43	NS	0750.0		410.0		1.0		V=0
	235	CUBA	44	NS	1450.0E		400.0D		11.0		
	280	CUBA	44	NS	1450.0E		400.0D		18.0		
	500	HIRA	46	C	0121.0	0121.4	2.5	24.0	7.0		O
	500	HIRA	46	C	0152.8	0155.5	5.0	27.0	7.0		WL
	500	HIRA	42	SER	0335.0	0335.7	3.7	7.0			O
	410	LEAR	8	S	0336.0	0336.0	U	56.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0342.6	0350.1	10.0	10.0			O
	500	HIRA	42	SER	0433.5	0435.1	3.0	12.0			O
	410	LEAR	8	S	0434.0	0435.0	1.0	81.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0444.9	0445.1	10.0	6.0			O
	410	LEAR	8	S	0447.0	0447.0	U	54.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0512.7	0512.7	0.7	5.0			O
	410	LEAR	8	S	0528.0	0528.0	U	100.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0528.1	0531.5	6.5	6.0			O
	500	HIRA	42	SER	0541.5	0550.1	10.0	32.0			O
	33	UPIC	42	SER	0936.0	0937.2	8.7				
	3013	IZMI	7	C	0942.5	0943.2	3.0	11.0	5.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 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
25	410	SGMR	8	S	1314.0	1314.0	1.0	500.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	1314.0	1314.0	1.0	25.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	1314.0	1314.0	1.0	630.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1352.0	1354.0	2.0	2400.0			QL=4 ST=2 TYP=6
	9500	CUBA	1	S	1353.7	1354.2	1.7	11.0	5.0		
	610	SGMR	8	S	1354.0	1354.0	U	160.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1354.0	1354.0	U	140.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	1354.0	1354.0	U	2700.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	1444.0	1444.0	1.0	310.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1444.0	1444.0	1.0	220.0			QL=2 ST=3 TYP=3
	410	SVTO	4	S/F	1454.0	1456.0	3.0	460.0			QL=2 ST=2 TYP=3
	9500	CUBA	22	GRF	1454.0	1456.0	13.0	13.0	6.0		
	410	SGMR	49	GB	1455.0	1456.0	2.0	500.0			QL=4 ST=2 TYP=6
	235	CUBA	7	C	1511.3	1512.7	6.0	14.0			
	280	CUBA	7	C	1511.3	1512.7	6.0	9.0			
	410	SGMR	8	S	1521.0	1521.0	1.0	100.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1521.0	1521.0	1.0	50.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1639.0	1639.0	1.0	350.0			QL=4 ST=3 TYP=3
	9500	CUBA	1	S	1641.8	1643.2	2.1	31.0	15.0		
	245	SGMR	8	S	1642.0	1643.0	1.0	120.0			QL=4 ST=3 TYP=3
	15400	SGMR	8	S	1643.0	1643.0	U	34.0			QL=4 ST=3 TYP=3
	8800	SGMR	8	S	1643.0	1643.0	U	27.0			QL=4 ST=3 TYP=3
	610	SGMR	49	GB	1643.0	1643.0	U	590.0			QL=4 ST=3 TYP=6
	410	SGMR	49	GB	1643.0	1643.0	U	4600.0			QL=4 ST=3 TYP=6
	9500	CUBA	21	GRF	1709.0	1833.0	266.0D	63.0			SUNSET
	610	PALE	8	S	1811.0	1812.0	1.0	71.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1811.0	1812.0	1.0	57.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1811.0	1812.0	1.0	34.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	1811.0	1812.0	1.0	67.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1811.0	1812.0	1.0	78.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1811.0	1812.0	2.0	66.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1811.0	1812.3	1.7	65.0	32.0		
	280	CUBA	7	C	1820.0	1821.0	3.0	19.0			
	235	CUBA	7	C	1820.0	1821.0	3.0	14.0			
	410	PALE	4	S/F	1820.0	1824.0	5.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1820.0	1820.0	3.0	470.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1820.0	1821.0	3.0	84.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1820.0	1821.0	6.0	36.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1820.0	1820.0	2.0	500.0			QL=4 ST=2 TYP=6
	8800	SGMR	4	S/F	1820.0	1821.0	6.0	85.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1820.0	1821.0	6.0	82.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1820.0	1821.0	6.0	28.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1820.8	1821.2	2.9	85.0	42.0		
	8800	PALE	8	S	1821.0	1821.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1824.0	1824.0	2.0	130.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1830.0	1832.0	3.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1831.0	1832.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1831.0	1832.0	2.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1831.0	1832.0	9.0	63.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1832.0	1837.0	8.0	37.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1832.0	1832.0	8.0	40.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1835.0	1835.0	U	60.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1835.0	1835.0	U	71.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2041.0	2042.0	1.0	190.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2041.0	2042.0	2.0	210.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2041.0	2042.0	2.0	310.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2041.0	2042.0	1.0	87.0			QL=2 ST=2 TYP=3
	2800	PENT	3	S	2041.4	2041.9	2.4	38.0	8.0		
	410	PALE	8	S	2042.0	2042.0	U	220.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2042.0	2042.0	U	37.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2042.0	2042.0	U	26.0			QL=4 ST=2 TYP=3
26	204	IZMI	43	NS	0700.0		300.0D		5.0		
	127	TORN	43	NS	0750.0		405.0		1.0		V=1
	235	CUBA	44	NS	1415.0E		435.0D		12.0		
	280	CUBA	44	NS	1415.0E		435.0D		18.0		
	500	HIRA	42	SER	0109.6	0109.7	5.0	71.0			O
	2800	HIRA	1	S	0110.2	0110.7	1.5	9.0	4.0		WR
	2840	PEKG	3	S	0116.0	0134.3	22.0	27.4			

SOLAR RADIO EMISSION
Outstanding Occurrences

JANUARY 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
26	500	HIRA	42	SER	0131.5	0134.0	4.0	110.0			O
	2800	HIRA	3	S	0133.0	0134.0	3.0	68.0	40.0		WR
	610	LEAR	8	S	0133.0	0133.0	1.0	78.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0133.0	0134.0	3.0	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0133.0	0134.0	2.0	31.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0133.0	0134.0	2.0	140.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0133.0	0134.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0133.0	0134.0	4.0	160.0			QL=4 ST=3 TYP=3
	4995	PALE	4	S/F	0133.0	0134.0	4.0	170.0			QL=2 ST=3 TYP=3
	2695	PALE	8	S	0133.0	0134.0	1.0	49.0			QL=4 ST=3 TYP=3
	1415	PALE	8	S	0133.0	0134.0	1.0	31.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	0133.0	0133.0	4.0	120.0			QL=4 ST=3 TYP=3
	610	PALE	8	S	0133.0	0133.0	1.0	76.0			QL=4 ST=3 TYP=3
	15400	LEAR	4	S/F	0133.0	0134.0	1347.0	120.0			QL=4 ST=1 TYP=3
	15400	LEAR	8	S	0137.0	0139.0	2.0	38.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0539.0	0540.0	1.0	190.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0539.0	0540.0	1.0	320.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0623.0	0623.0	U	89.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0623.4	0623.5	0.3	83.0			O
	3013	IZMI	5	S	0723.0	0723.5	1.0	3.0	2.0		
	3013	IZMI	7	C	0726.0	0728.2	5.0	7.0	4.0		
	4995	LEAR	8	S	0728.0	0729.0	1.0	45.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0728.0	0729.0	1.0	55.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0728.0	0729.0	2.0	62.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0728.0	0729.0	2.0	54.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0728.0	0728.0	1.0	25.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1010.0	1011.0	1.0	260.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	1011.0	1011.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1137.0	1138.0	3.0	68.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	1137.0	1138.0	3.0	21.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1138.0	1138.0	U	130.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	1138.0	1138.0	U	80.0			QL=4 ST=2 TYP=3
	127	TORN	46	C	1200.3	1200.7	3.1	60.0	20.0		
	245	SGMR	8	S	1232.0	1232.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1232.0	1232.0	U	170.0			QL=2 ST=2 TYP=3
	127	TORN	8	S	1232.1	1232.3	1.0	200.0	100.0		
	127	TORN	4	S/F	1318.6	1318.9	2.0	10.0	6.0		
	9500	CUBA	22	GRF	1614.0	1616.0	22.0	22.0	11.0		
	2800	PENT	2	S/F	1713.8	1714.3	1.3	5.3	2.0		
	2800	PENT	2	S/F	1717.8	1718.7	1.8	9.5	3.0		
	9500	CUBA	1	S	1718.0	1718.6	1.2	14.0	7.0		
	9500	CUBA	40	F	2038.0	2039.3	2.0	27.0	13.0		
	9500	CUBA	3	S	2041.2	2042.2	4.2	244.0			
	410	LEAR	4	S/F	2235.0	2237.0	3.0	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2236.0	2237.0	2.0	320.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2236.3	2236.8	4.0	173.0			O
	500	HIRA	46	C	2305.4	2305.7	1.5	18.0	8.0		O
27	204	IZMI	43	NS	0720.0		90.0		5.0		
	235	CUBA	44	NS	1400.0E		450.0D		9.0		
	280	CUBA	44	NS	1400.0E		450.0D		16.0		
	500	HIRA	42	SER	0342.1	0344.5	16.0	38.0			O
	2840	PEKG	3	S	0450.0	0457.5	25.0	46.1			
	2800	HIRA	4	S/F	0504.2	0507.4	9.0	44.0	28.0		O
	500	HIRA	42	SER	0504.5	0506.5	3.5	6.0			O
	1415	LEAR	4	S/F	0505.0	0506.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0505.0	0509.0	6.0	98.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0505.0	0509.0	30.0	150.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0506.0	0508.0	4.0	51.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0507.0	0509.0	1133.0	92.0			QL=4 ST=1 TYP=3
	2800	HIRA	3	S	0515.8	0517.4	3.0	39.0	28.0		O
	9500	CUBA	1	S	1348.0	1349.0	5.0	21.0	10.0		
	410	PALE	8	S	1918.0	1918.0	1.0	64.0			QL=4 ST=2 TYP=3
28	280	CUBA	44	NS	1545.0E		345.0D		17.0		
	260	ONDR	45	C	1124.0	1126.0	8.0	125.0			
	536	ONDR	8	S	1126.5	1126.7	1.5	35.0			
	9500	CUBA	23	GRF	1415.0E	1730.0	425.0D	31.0			
	245	PALE	8	S	1946.0	1947.0	1.0	44.0			QL=4 ST=2 TYP=3

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

JANUARY 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
28	245	SGMR	8	S	1946.0	1947.0	1.0	56.0			QL=4 ST=2 TYP=3
	9500	CUBA	23	GRF	2038.0	2127.0	63.0	9.0	4.0		
29	8800	LEAR	4	S/F	0331.0	0338.0	9.0	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0333.0	0338.0	7.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0336.0	0338.0	7.0	95.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0337.0	0338.0	3.0	27.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0337.0	0338.0	6.0	34.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0337.0	0338.0	6.0	140.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0338.0	0341.4	5.0	7.8			
	127	TORN	8	S	1030.4	1030.7	0.9	50.0	20.0		
	33	UPIC	2	S/F	1057.5	1057.7	0.8				
	3013	IZMI	20	GRF	1124.0	1127.0	11.0	10.0	5.0		
	127	TORN	8	S	1156.9	1157.1	0.8	90.0	40.0		
	127	TORN	42	SER	1241.7	1251.1	15.5	150.0	2.0		
	15400	SGMR	8	S	1508.0	1508.0	U	26.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1508.0	1509.0	1.0	35.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1508.0	1509.0	2.0	41.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1832.7	1834.3	4.8	12.5	3.0		
30	235	CUBA	44	NS	1400.0E		450.0D		9.0		
	280	CUBA	44	NS	1400.0E		450.0D		17.0		
	245	PALE	4	S/F	0132.0	0133.0	8.0	55.0			QL=4 ST=2 TYP=3
	260	ONDR	8	S	1159.0	1159.5	1.0	39.0			

Reports are received routinely from the following observatories:

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

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precusor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major

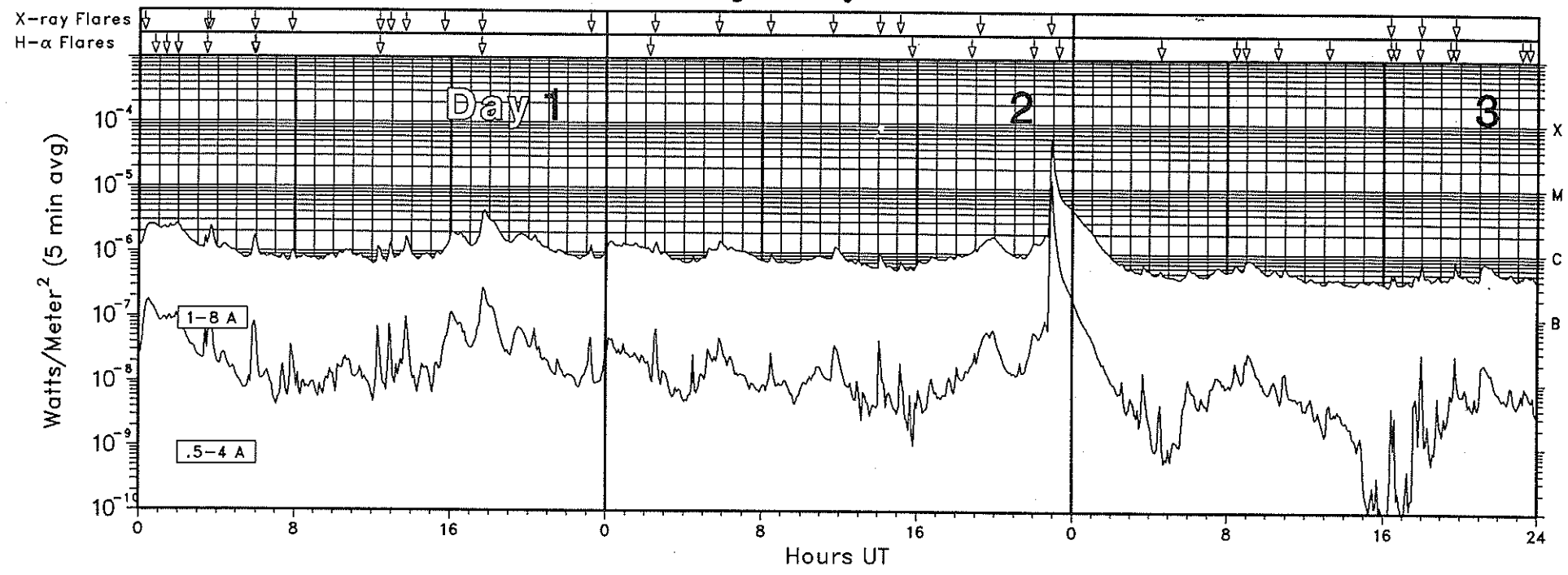
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

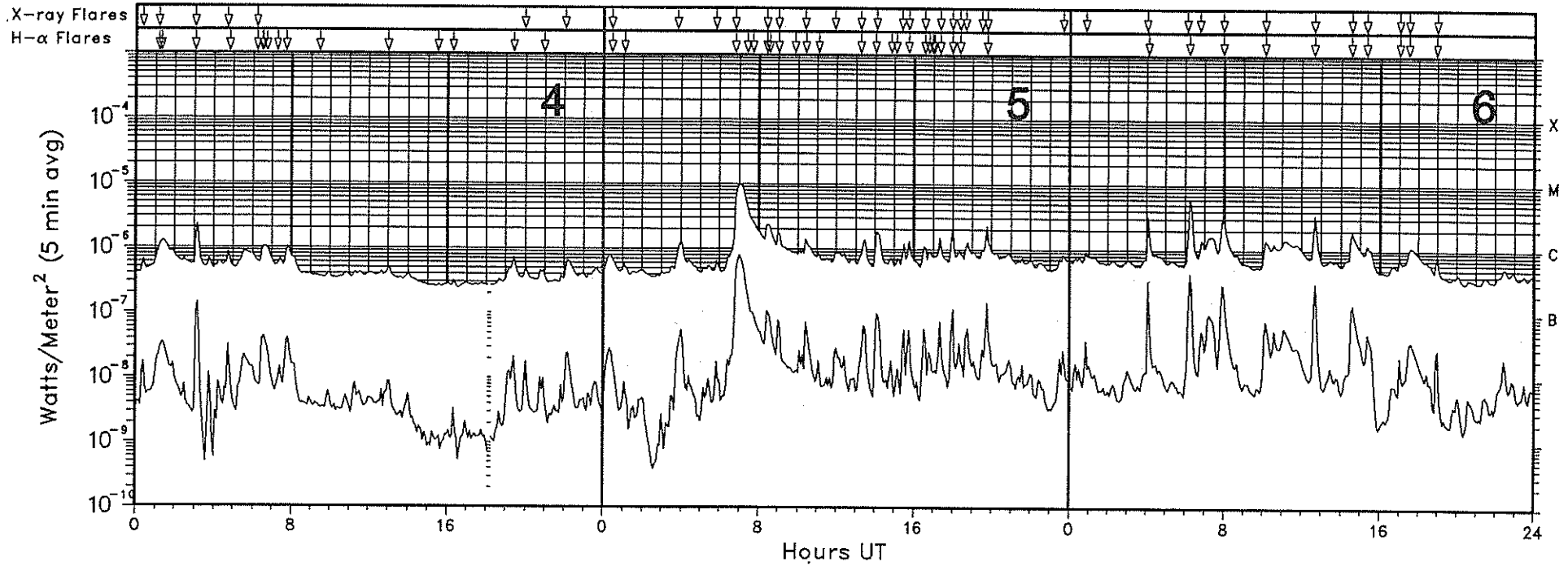
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; Hiraiso, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

GOES-7 X-RAY DETECTOR

January 1994

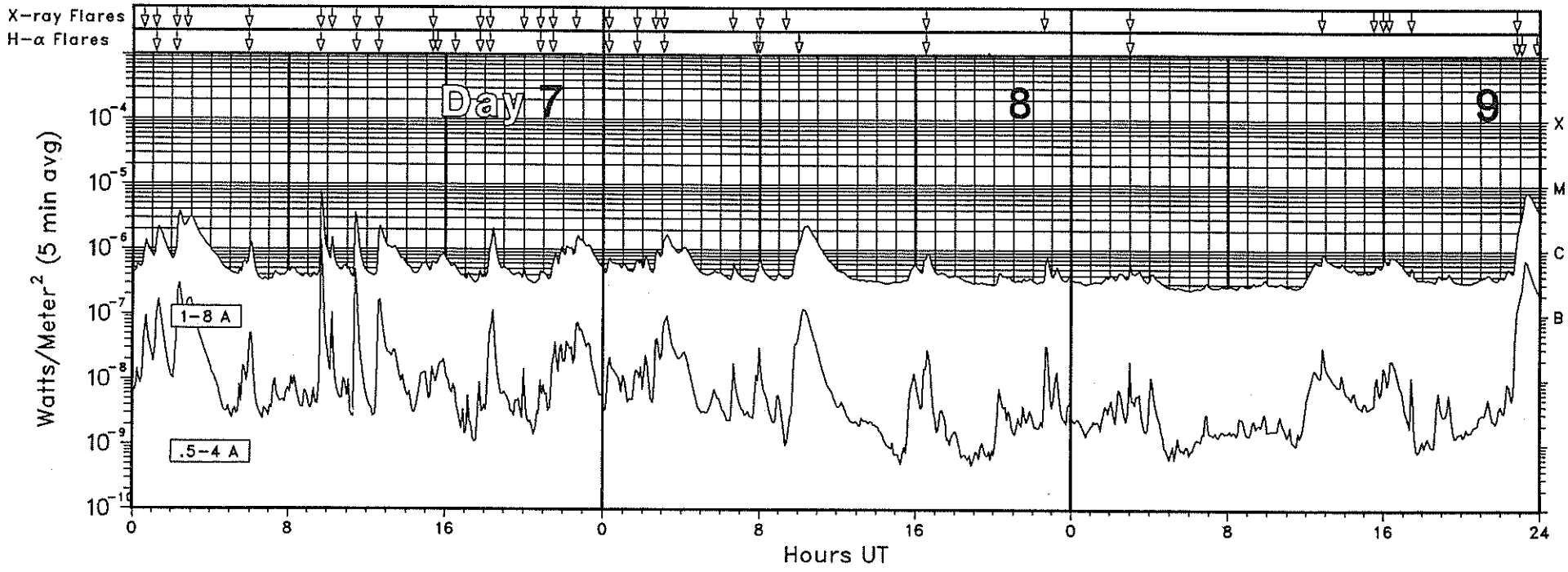
28 Jan 94

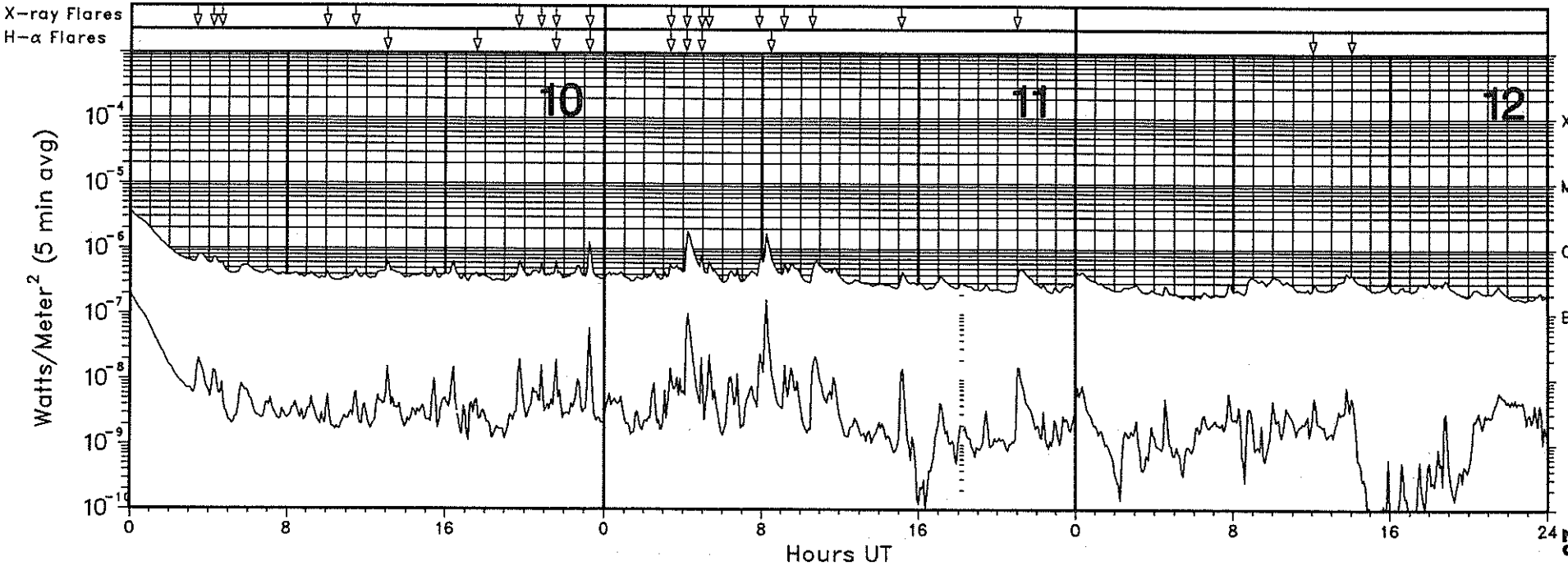




GOES-7 X-RAY DETECTOR

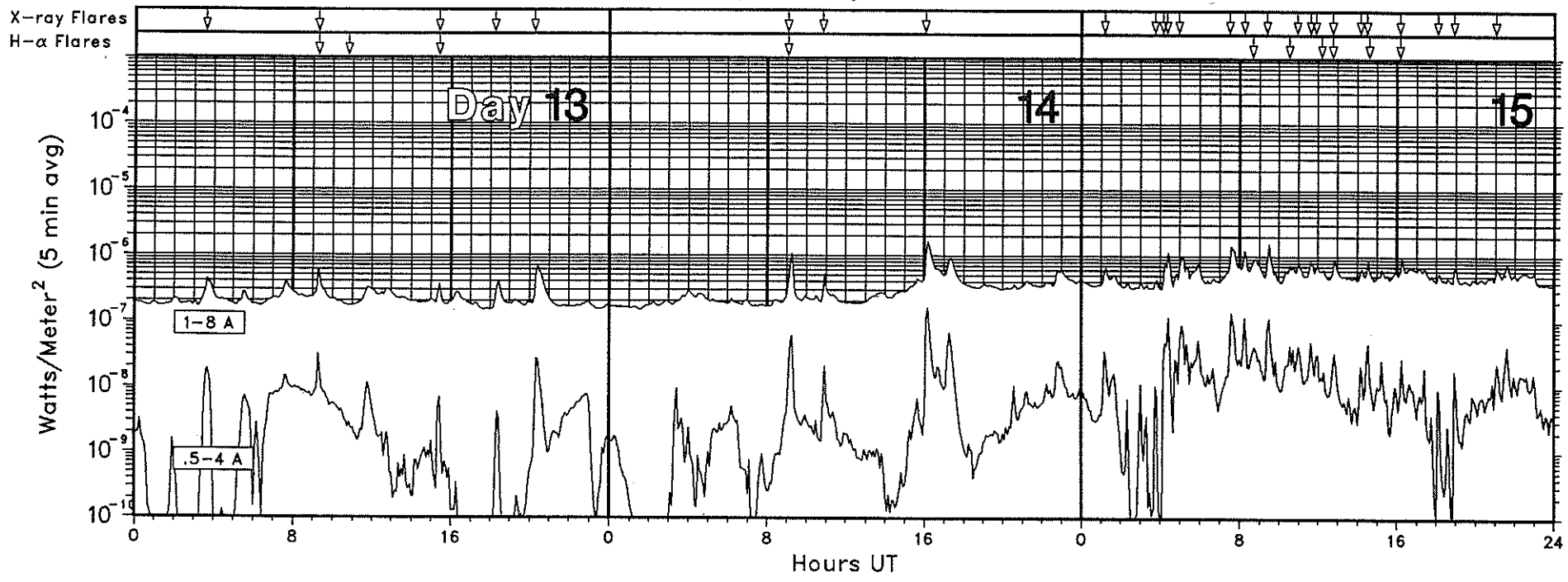
January 1994

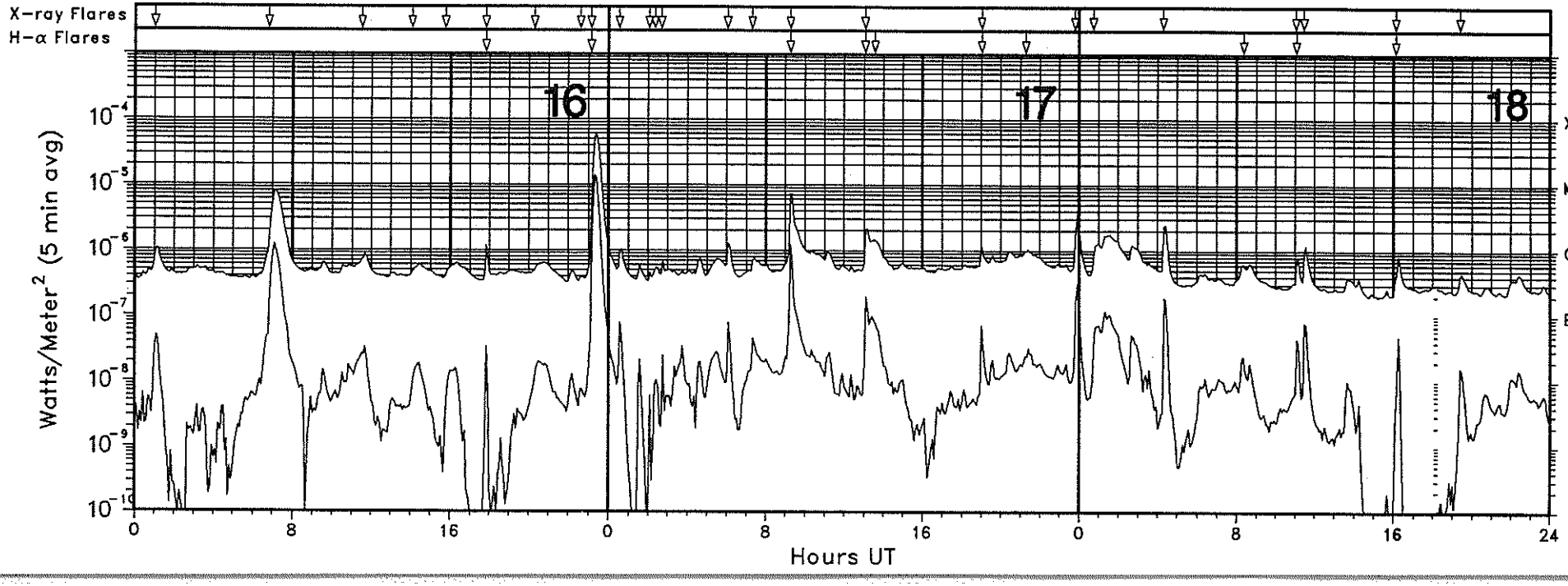




GOES-7 X-RAY DETECTOR

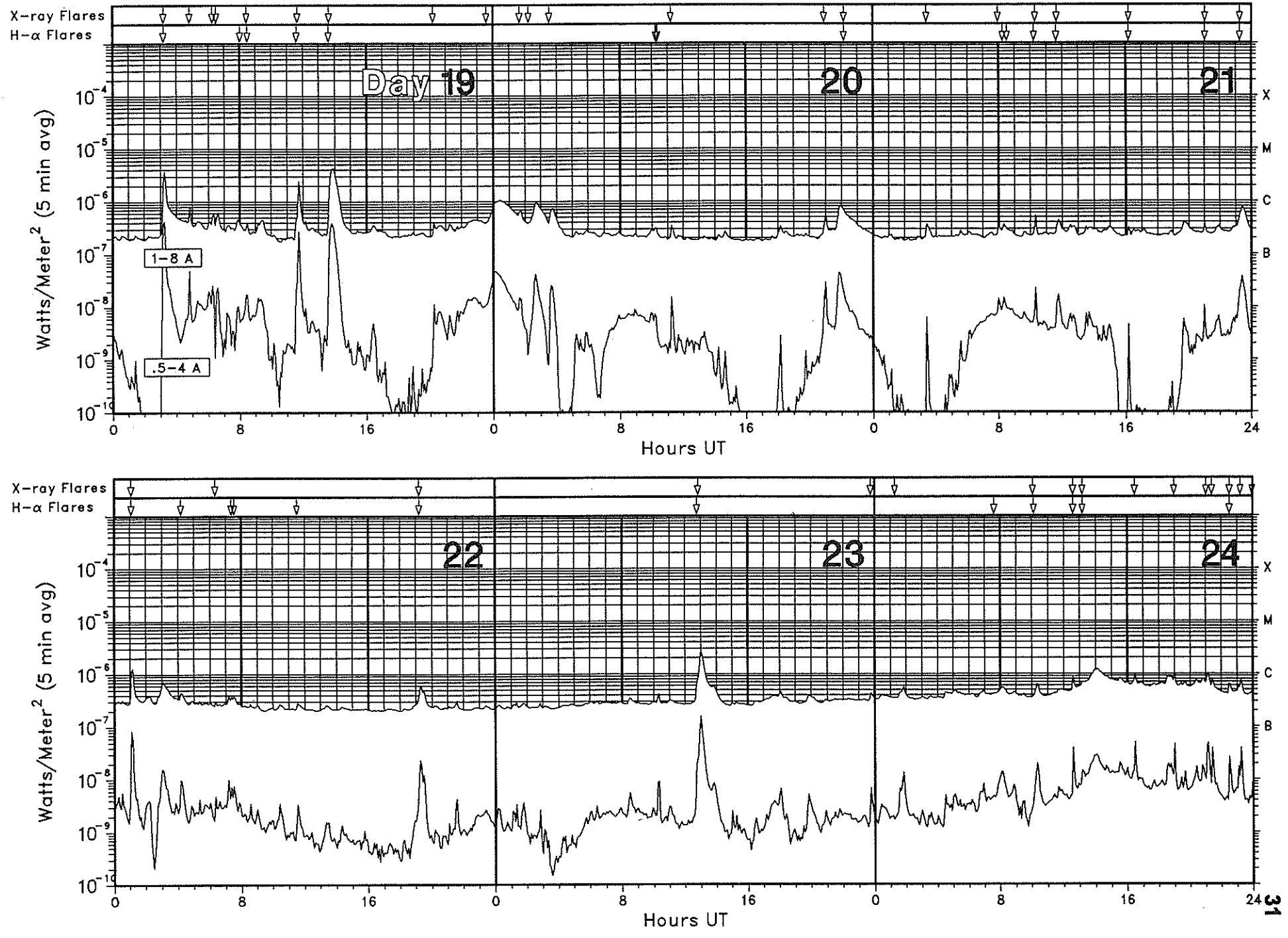
January 1994





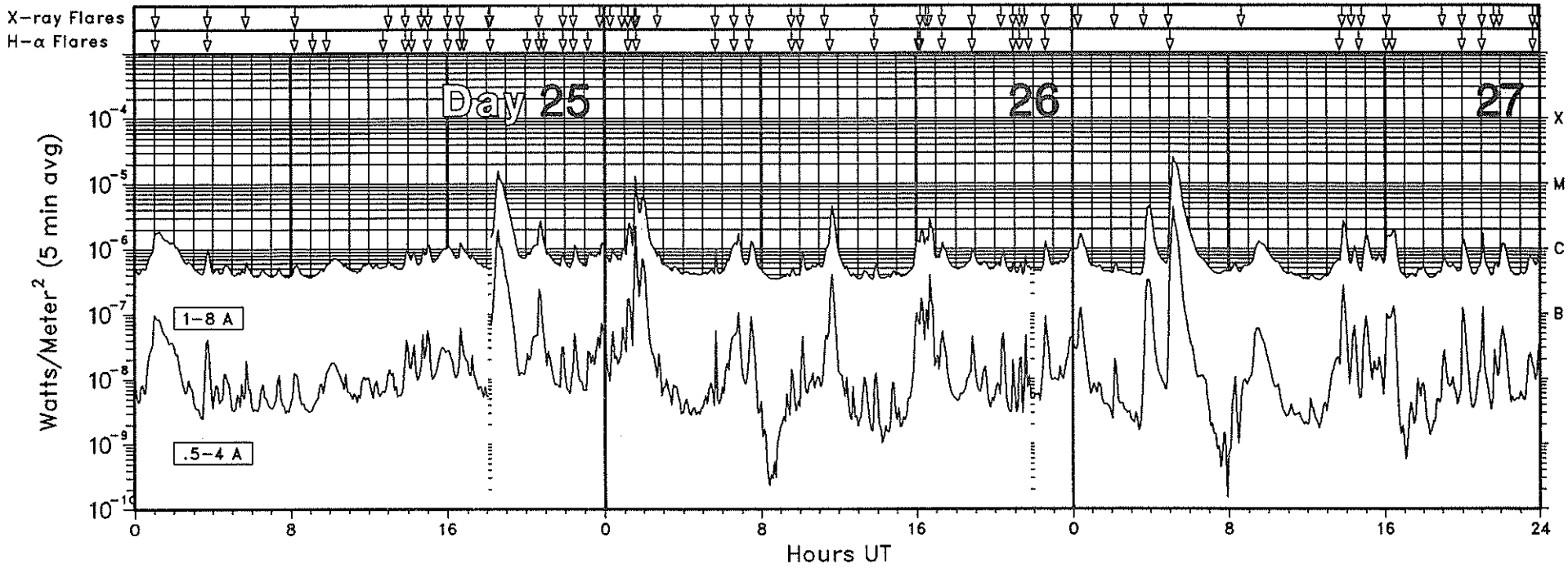
GOES-7 X-RAY DETECTOR

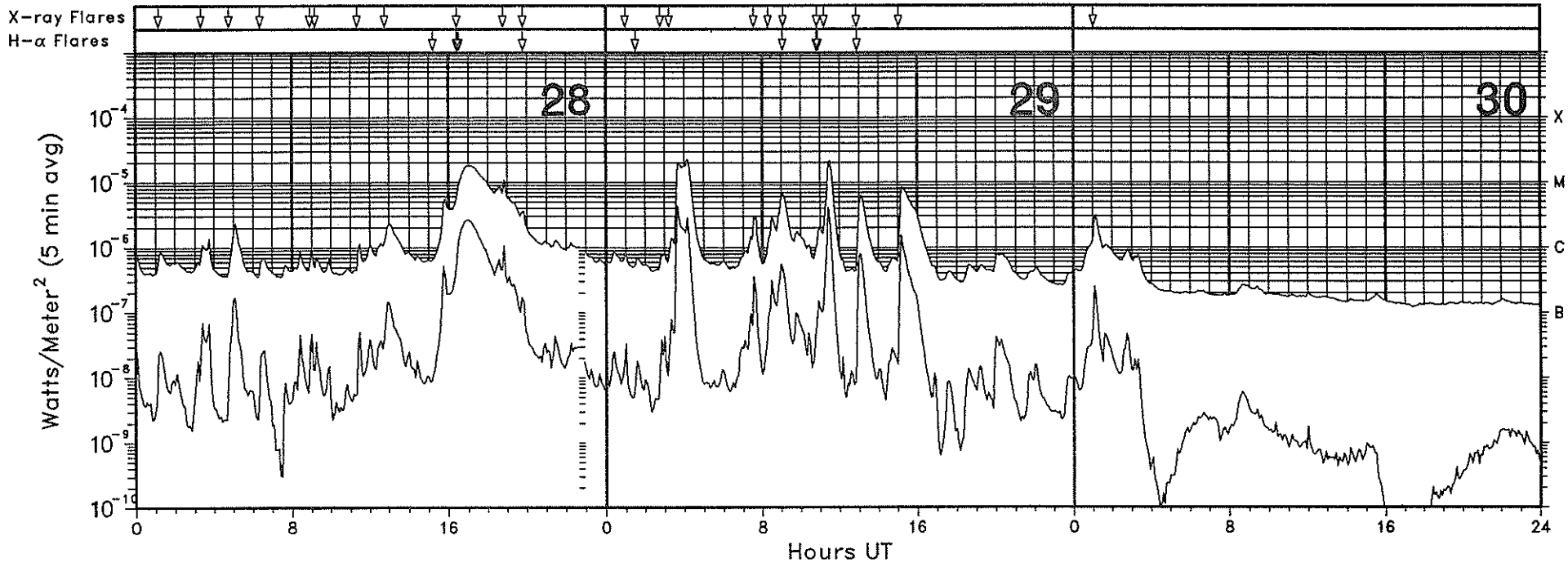
January 1994



GOES-7 X-RAY DETECTOR

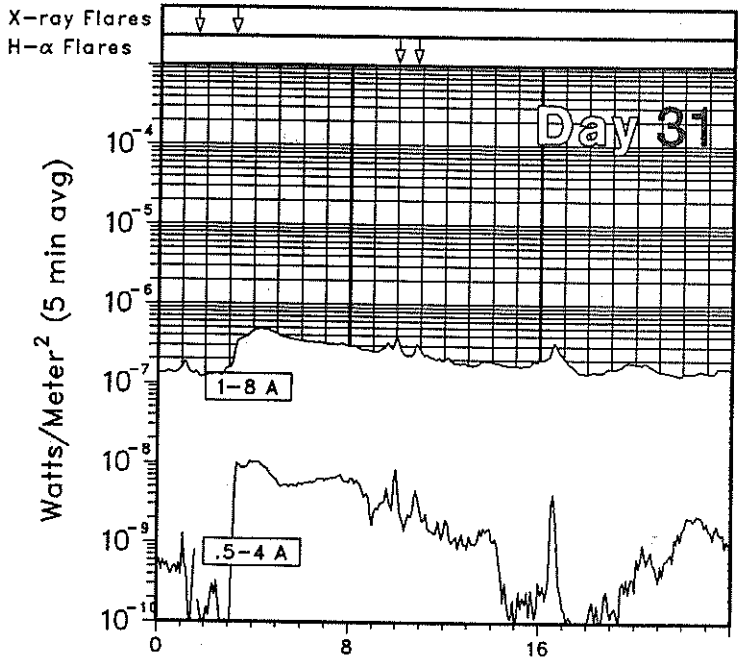
January 1994





GOES-7 X-RAY DETECTOR

January 1994



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

January 1994

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region
01	0016	0158	0208					C2.8	
01	0327	0327	0334	N13	E35	SF		C1.8	7645
01	0335	0341	0350					C2.4	
01	0554	0554	0558	N06	W77	SF		C2.0	7640
01	0750	0754	0758					C1.2	
01	1223	1223	1233	N10	E36	SF		C1.5	7645
01	1254	1259	1302					C1.6	
01	1341	1348	1353					C1.7	
01	1540	1609	1649					C2.0	
01	1735	1741	1806	S15	E27	SF		C4.4	7647
01	2311	2315	2319					C1.3	
02	0229	0236	0240					C1.5	
02	0546	0555	0602					C1.5	
02	0826	0832	0836					C1.0	
02	1139	1149	1155					C1.1	
02	1404	1408	1414					C1.1	
02	1508	1511	1513					B9.2	
02	1913	1956	2010					C1.8	
02	2251	2254	2317	N13	E15	SN		M6.5	7645
03	1620	1624	1628	N03	E78	SF		B5.0	7648
03	1757	1758	1809	N06	E76	SF		B8.8	7648
03	1945	1948	1951	N03	E76	SF		C1.0	7648
04	0021	0025	0029					B7.5	
04	0110	0115	0150	S10	E14	SF		C1.2	7649
04	0302	0312	0325	N14	E08	SF		C2.4	7645
04	0442	0448	0451					C1.0	
04	0613	0621	0632	N06	E68	SF		C1.0	7648
04	1957	2000	2005					B6.0	
04	2203	2212	2228					B6.5	
05	0027	0028	0032	N15	W04	SF		B8.3	7645
05	0350	0402	0407					C1.4	
05	0549	0553	0557					B7.0	
05	0648	0650	0739	S13	W23	1N		M1.0	7647
05	0826	0831	0848	N17	W08	SF		C2.8	7645
05	0901	0905	0910	S11	W21	SF		C1.9	7646
05	1023	1026	1033					C1.5	
05	1155	1158	1216					B9.4	
05	1315	1320	1324	N04	E49	SF		C1.8	7648
05	1404	1411	1424	N16	W11	SF		C1.9	7645
05	1524	1531	1534					C1.4	
05	1543	1545	1556	N03	E47	SN		C1.7	7648
05	1633	1636	1641	S11	W26	SF		C1.8	7646
05	1721	1722	1726	S11	W24	SF		C1.7	7646
05	1757	1802	1805	S10	W24	1N		C2.8	7646
05	1822	1823	1826	S06	W26	SF		C1.3	7646
05	1840	1845	1849					C1.5	
05	1929	1933	1935					C1.1	
05	1945	1947	1955	S05	W26	SF		C2.4	7646
05	2339	2343	2346					B9.8	
06	0050	0053	0055					C1.3	
06	0402	0407	0409					C4.9	
06	0607	0619	0624					C6.2	
06	0645	0654	0701					C1.4	
06	0758	0758	0809	S09	W34	SN		C4.6	7646
06	1008	1010	1028	S09	W32	SF		C1.4	7646
06	1237	1239	1256	S09	W35	SN		C4.2	7646
06	1431	1432	1438	S11	W37	SF		C2.2	7646
06	1517	1521	1542	S10	W36	SF		C1.4	7646
06	1700	1701	1713	S09	W38	SF		B8.5	7646
06	1730	1749	1808	S11	W37	SF		C1.1	7646
06	1858	1859	1905	S10	W38	SF		C1.1	7646
07	0034	0042	0048					C1.5	
07	0111	0115	0129	S09	W37	SF		C2.3	7646
07	0214	0220	0301	S11	W40	SF		C3.9	7646
07	0248	0303	0330					C3.1	
07	0556	0605	0616	S09	W43	SF		C1.3	7646
07	0937	0944	1003	S09	W45	1N		M1.3	7646
07	1013	1016	1018					C2.1	
07	1127	1128	1146	S11	W49	SN		C8.0	7646
07	1234	1235	1315	S04	W44	SF		C2.3	7646
07	1519	1524	1545	N06	E32	SF		B7.3	7650
07	1744	1746	1806	S09	W47	SF		B5.3	7646
07	1815	1825	1850	S10	W49	1F		C2.2	7646
07	1959	2002	2005					B5.8	
07	2048	2051	2111	S10	W49	SF		B4.8	7646
07	2127	2137	2208	S10	W55	SF		B9.4	7646
07	2238	2245	2255					C1.7	
08	0018	0020	0022	S05	W55	SF		B8.1	7646
08	0142	0146	0155	S11	W56	SF		B8.4	7646
08	0238	0245	0258					C1.0	
08	0306	0306	0310	S10	W53	SF		C1.6	7646
08	0636	0642	0649					B6.5	
08	0800	0802	0806	S15	W67	SF		B9.4	7647
08	0920	1031	1059					C2.4	
08	1630	1630	1634	S13	W69	SF		B9.8	7647
08	2236	2246	2254					B7.9	
09	0301	0303	0306	S10	W70	SF		B7.3	7646
09	1249	1254	1300					C1.0	
09	1531	1542	1548					B6.2	
09	1559	1605	1611					B7.6	
09	1617	1625	1643					B8.3	
09	1725	1728	1731					B6.7	
09	2251	2256	2334	S06	W76	SF		C8.2	7646
10	0323	0333	0348					B8.1	
10	0412	0420	0427					B7.5	
10	0439	0442	0443					B6.3	
10	1002	1005	1010					B4.5	
10	1126	1129	1134					B4.7	
10	1941	1945	1950					B7.2	
10	2048	2052	2055					B6.2	
10	2134	2136	2139	N07	W23	SF		B9.5	7648
10	2315	2315	2341	N07	W27	SF		C1.3	7648
11	0320	0321	0327	N04	W18	SF		B6.3	7650
11	0411	0412	0437	N07	W29	SF		C1.8	7648
11	0456	0500	0503	N04	W19	SF		B9.0	7650
11	0517	0522	0527					B6.5	
11	0750	0817	0825					C1.7	
11	0908	0912	0916					B6.5	
11	1034	1048	1112					B6.7	
11	1505	1510	1522					B4.5	
11	2059	2114	2141					B4.9	
13	0336	0341	0348					B4.4	
13	0916	0916	0926	N07	W50	SF		B6.8	7650
13	1524	1524	1529	N06	W56	SF		B4.0	7648
13	1815	1825	1834					B4.0	
13	2015	2025	2041					B6.8	
14	0905	0913	0927	N05	W67	SF		C1.2	7648
14	1051	1056	1059					B6.2	
14	1603	1612	1622					C1.6	
15	0111	0114	0118					B7.9	
15	0346	0349	0353					B5.0	

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

January 1994

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region
15	0410	0415	0421				B	8.6	
15	0422	0428	0431				C	1.3	
15	0458	0510	0514				C	1.1	
15	0731	0737	0740				C	1.5	
15	0815	0818	0821				C	1.5	
15	0925	0930	0933				C	1.9	
15	1057	1100	1104				B	9.5	
15	1140	1144	1146				C	1.0	
15	1156	1159	1204				B	8.5	
15	1247	1252	1258				B	9.2	
15	1411	1414	1417				B	7.6	
15	1431	1435	1438				C	1.0	
15	1611	1613	1617	S04	W79	SF	C	1.0	
15	1805	1809	1816				B	5.9	
15	1854	1859	1903				B	8.5	
15	2101	2106	2113				B	7.2	
16	0100	0110	0115				C	1.1	
16	0647	0709	0725				C	8.5	
16	1129	1142	1148				B	9.0	
16	1403	1428	1444				B	6.1	
16	1545	1618	1649				B	6.4	
16	1748	1751	1801	N03	E71	SF	C	1.4	7654
16	2016	2044	2105				B	6.3	
16	2236	2239	2241				B	4.6	
16	2309	2340	0002	N05	E71	1N	M	6.1	7654
17	0033	0039	0045				C	1.1	
17	0204	0207	0209				B	5.5	
17	0221	0224	0228				B	6.2	
17	0242	0247	0250				B	7.7	
17	0603	0608	0612				C	1.6	
17	0718	0724	0745				B	7.8	
17	0916	0916	0922	N06	E65	1N	C	9.3	7654
17	1304	1307	1347	N08	E68	SF	C	2.3	7654
17	1901	1901	1909	N09	E58	SF	C	1.5	7654
17	2347	2357	0003				C	3.7	
18	0044	0124	0208				C	1.7	
18	0417	0424	0431				C	2.8	
18	1103	1109	1113				C	1.1	
18	1128	1135	1142				C	1.2	
18	1607	1618	1631	N08	E47	SF	B	8.6	7654
18	1925	1930	1938				B	4.7	
19	0311	0316	0329	N05	E40	SF	C	4.0	7654
19	0449	0452	0454				C	1.0	
19	0615	0619	0623				B	7.5	
19	0629	0636	0641				B	6.6	
19	0826	0830	0833				B	4.7	
19	1141	1146	1150				C	2.8	
19	1339	1342	1434	N05	E40	SF	C	4.2	7654
19	2012	2016	2020				B	4.5	
19	2335	0017	0113				C	1.0	
20	0141	0144	0147				B	8.4	
20	0214	0244	0307				B	9.7	
20	0334	0348	0358				B	7.4	
20	1113	1117	1123				B	3.8	
20	2056	2100	2106				B	6.2	
20	2210	2220	2223	N07	E24	SF	B	8.3	7654
21	0324	0328	0332				B	4.5	
21	0758	0802	0809				B	3.5	
21	1019	1023	1025				B	6.6	
21	1140	1146	1155				B	4.5	
21	1612	1612	1617	N08	E12	SF	B	4.0	7654
21	2103	2103	2110	N07	E08	SF	B	4.6	7654
21	2317	2324	2334	N06	E07	SF	B	7.8	7654
22	0105	0108	0121	N10	W00	SF	C	1.6	7654
22	0619	0622	0625				B	3.5	
22	1912	1920	1941	N08	W10	SF	B	6.2	7654
23	1250	1302	1333	N06	W17	1F	C	2.9	7654
23	2344	2347	2351				B	4.7	
24	0118	0151	0156				B	5.9	
24	1005	1025	1029				B	6.9	
24	1236	1236	1242	N07	W32	SF	C	1.1	7654
24	1311	1313	1319	N13	W04	SF	C	1.2	7658
24	1629	1633	1635				C	1.3	
24	1858	1901	1904				C	1.2	
24	2101	2113	2116				C	1.0	
24	2124	2127	2131				B	8.8	
24	2232	2232	2238	N07	W33	SF	B	8.4	7654
24	2313	2317	2321				B	8.7	
24	2358	0001	0004				B	6.2	
25	0103	0103	0121	N08	W34	SF	C	1.8	7654
25	0343	0345	0355	N13	W12	SF	C	1.2	7658
25	0543	0546	0551				B	6.7	
25	0813	0814	0817	N11	W37	SF	B	6.4	7654
25	1302	1305	1311	N06	E31	SF	B	7.6	7661
25	1354	1354	1401	N11	W41	SF	B	9.9	7654
25	1442	1446	1452				C	1.1	
25	1503	1504	1514	N08	W42	SF	C	1.2	7654
25	1602	1604	1614	N12	W20	SF	C	1.1	7658
25	1640	1643	1657	N10	W49	SF	C	1.4	7654
25	1808	1814	1819				C	2.7	
25	1812	1833	1928	N09	W48	1N	M	1.6	7654
25	2042	2043	2056	N10	W48	SF	C	3.1	7654
25	2156	2158	2206	N10	W49	SF	B	9.2	7654
25	2228	2236	2246	N06	W49	SF	C	1.2	7654
25	2347	2352	0005				C	1.3	
26	0019	0028	0033				C	1.0	
26	0054	0058	0103				C	1.1	
26	0113	0118	0130	N07	W50	SF	C	2.5	7654
26	0133	0136	0215	N08	W51	1B	M	1.5	7654
26	0140	0142	0227	N07	W50	SF	C	6.5	7654
26	0244	0247	0249				C	1.0	
26	0540	0540	0553	N08	W56	SF	C	1.4	7654
26	0638	0651	0658	N07	W56	SF	C	1.8	7654
26	0726	0733	0741				C	3.1	
26	0936	0939	0941				B	7.3	
26	1005	1011	1016				C	1.0	
26	1119	1142	1150				C	4.6	
26	1352	1358	1411	N09	W35	SF	B	5.9	7658
26	1613	1649	1659	N10	W61	SF	C	2.5	7654
26	1630	1633	1636				C	1.9	
26	1639	1642	1645				C	3.7	
26	1720	1722	1726	N08	W60	SF	C	1.3	7654
26	1852	1852	1906	N09	W62	SF	C	1.5	7654
26	2020	2025	2030				C	1.0	
26	2057	2057	2107	N08	W62	SF	B	7.2	7654
26	2119	2120	2125	N09	W63	SF	B	8.7	7654
26	2132	2137	2140				B	8.6	
26	2237	2240	2243	N10	W68	SF	C	1.6	7654
27	0019	0028	0033				C	1.8	
27	0211	0214	0216				C	1.0	
27	0340	0343	0404	N08	W68	1N	C	4.6	7654
27	0458	0509	0549	N11	W65	1B	M	2.7	7654

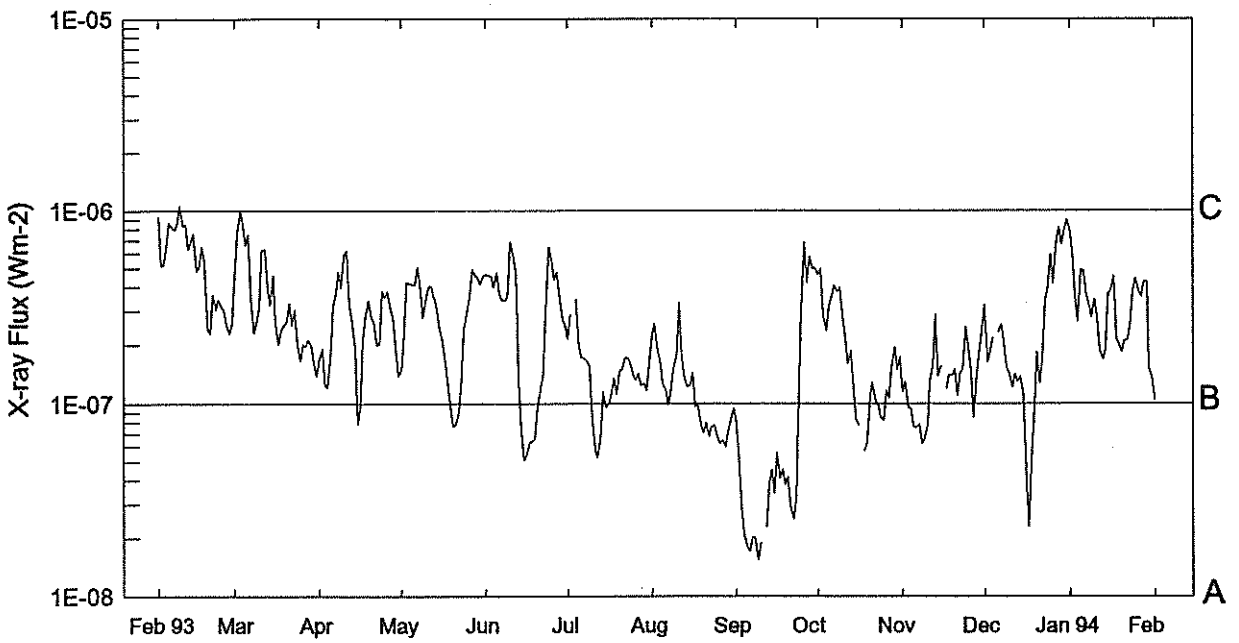
GOES S O L A R X-RAY F L A R E S
Preliminary Listing

January 1994

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region
27	0840	0932	1003				C1.3		
27	1348	1349	1403	N07	W72	SF	C2.7		7654
27	1416	1427	1433				C1.1		
27	1448	1503	1513				C1.7		
27	1606	1606	1610	N07	W74	SF	C2.1		7654
27	1900	1905	1910				B8.2		
27	2000	2003	2012	N07	W77	SF	C1.6		7654
27	2103	2107	2116	N10	W73	SF	C2.1		7654
27	2140	2144	2148				B7.5		
27	2157	2209	2218				C1.3		
27	2339	2342	2345	N08	W80	SF	B7.8		7654
27	2354	0004	0008				B9.5		
28	0110	0115	0129				B9.3		
28	0319	0345	0348				C1.6		
28	0446	0506	0515				C2.4		
28	0623	0636	0645				B7.5		
28	0856	0900	0904				C1.1		
28	0912	0918	0928				B7.2		
28	1122	1131	1134				C1.4		
28	1247	1303	1315				C2.3		
28	1625	1626	1638	N08	W85	SF	M1.8		7654
28	1847	1852	1856				M1.1		
28	1947	1949	1954	S09	E79	SF	C4.5		7664
29	0059	0102	0104				C1.0		
29	0247	0302	0306				B9.7		
29	0314	0413	0422				M2.4		
29	0735	0739	0742				C5.0		
29	0819	0833	0842				C3.3		
29	0906	0909	0913	N12	W71	SF	C6.6		7658
29	1050	1059	1110				C2.3		
29	1113	1129	1138				M2.4		
29	1252	1308	1321				C6.5		
29	1503	1514	1545				C8.8		
30	0102	0110	0118				C3.2		
31	0135	0138	0142				B1.9		
31	0311	0417	0507				B4.8		

EDITOR's NOTE: Please note that whenever optical flares are given, the times given are times of the optical flares and not the times of the X-ray flares. These data are taken directly from the NOAA SEL "Preliminary Report and Forecast of Solar Geophysical Data" weekly report.

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



Day	Feb 93	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94
1	B9.2	B4.5	B1.6	B1.4	B4.6	B2.1	B2.3	A8.0	B4.6	B1.1	B3.2	B7.9
2	B5.1	B7.6	B1.9	B2.2	B4.5	B2.8	B2.5	A5.1	B4.9	B1.3	B1.6	B6.0
3	B5.1	C1.0	B1.2	B4.2	B4.5	---	B1.9	A2.8	B2.8	A9.5	B1.8	B3.6
4	B6.3	B8.2	B1.2	B4.1	B3.9	B3.4	B1.6	A2.1	B2.3	A9.5	B2.2	B2.6
5	B8.6	B6.5	B1.7	B4.1	B4.7	B2.0	B1.2	A1.7	B3.1	A7.5	---	B4.9
6	B8.1	B7.4	B3.2	B4.0	B3.6	B1.7	B1.1	A1.7	B3.4	A7.5	B2.3	B4.8
7	B7.9	B3.5	B3.6	B5.0	B3.4	B1.7	A9.8	A2.0	B4.0	A7.8	B2.5	B3.7
8	B8.5	B2.3	B4.7	B4.0	B3.4	B1.6	B1.1	A2.0	B3.7	A6.2	B2.1	B3.1
9	C1.0	B2.6	B3.9	B2.7	B3.5	B1.5	B1.5	A1.5	B3.9	A6.6	B1.5	B2.7
10	B8.2	B3.0	B5.8	B3.4	B6.8	A8.5	B1.7	A1.9	B2.8	A7.7	B1.4	B3.4
11	B8.4	B6.2	B6.1	B4.0	B5.9	A5.7	B3.3	---	B2.2	B1.2	B1.2	B2.7
12	B6.2	B6.2	B3.2	B4.0	B4.7	A5.3	B1.7	A2.2	B1.6	B1.5	B1.4	B1.8
13	B6.8	B4.0	B2.7	B3.4	B1.3	A6.6	B1.3	A3.8	B1.8	B2.8	B1.2	B1.6
14	B7.5	B3.2	B1.9	B3.2	A7.2	B1.1	B1.2	A4.5	B1.2	B1.3	B1.3	B1.9
15	B4.8	B4.6	A7.8	B2.4	A5.1	A9.5	B1.2	A3.4	A8.2	B1.5	B1.1	B3.6
16	B5.0	B2.6	A9.5	B2.1	A5.4	A9.9	B1.4	A5.6	A7.7	---	A4.5	B3.8
17	B6.4	B2.0	B2.0	B1.7	A6.3	B1.1	A9.6	A4.1	---	B1.1	A2.3	B4.6
18	B5.4	B2.3	B2.8	B1.2	A6.3	B1.3	A9.9	A4.5	A5.7	B1.4	A5.7	B2.1
19	B2.4	B2.5	B3.3	A9.5	A6.5	B1.1	A7.6	A3.8	A6.2	B1.3	A8.2	B2.0
20	B2.3	B2.6	B2.8	A7.6	A9.5	B1.4	A7.1	A4.1	B1.0	B1.5	B1.8	B1.8
21	B3.6	B3.2	B2.6	A7.7	B1.2	B1.5	A7.9	A2.9	B1.2	B1.1	B1.2	B2.1
22	B3.0	B2.5	B1.9	A9.0	B1.4	B1.7	A6.7	A2.5	B1.0	B1.4	B1.6	B2.1
23	B3.4	B3.0	B2.0	B1.3	B3.0	B1.7	A7.5	A3.2	A9.9	B1.4	B3.4	B2.5
24	B3.2	B1.9	B3.7	B2.4	B6.4	B1.6	A7.7	B1.0	A8.5	B2.4	B3.9	B3.8
25	B3.0	B1.6	B3.5	B2.8	B5.5	B1.4	A6.8	B3.0	A8.2	B1.9	B5.9	B4.4
26	B2.5	B2.0	B3.7	B3.3	B4.3	B1.3	A6.2	B6.8	B1.1	B1.4	B4.1	B3.8
27	B2.2	B1.9	B3.1	B4.9	B4.7	B1.4	A6.4	B4.2	B1.0	A8.5	B6.9	B3.5
28	B2.5	B2.1	B2.7	B4.6	B3.6	B1.2	A6.0	B5.7	B1.5	B1.4	B8.1	B4.2
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*

January 1994

Site	Mo	Day	Observed UT Start	Max	End	Location RA°	R/Ro	Freq or Wavelength	Kind of Event
LEAR	Jan	09	2320.0		2335.0			Meter	II 600km/s
PALE	Jan	09	2319.0		2340.0			Meter	II 800km/s
LEAR	Jan	16	2332.0		2337.0			Meter	II 1600km/s
PALE	Jan	25	1852.0		1902.0			Meter	II 1200km/s
SGMR	Jan	25	1852.0		1902.0			Meter	II 600km/s
KHAR	Jan	26	1108.0		1120.0	274	0.82	H-alpha	S
LEAR	Jan	27	0401.0		0415.0			Meter	II 1000km/s

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

JANUARY 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	ADF	0245E	0931D	S12	E47	01	4.6	1	05	9	9	E	LEAR	7646	
01	AFS	0845E	1040	N12	E38	01	4.2		03	9	9	E	LEAR	7645	
01	DSD	0845E	1040	N14	E39	01	4.3		02	9	9	E	LEAR	7645	
01	DSD	1511E	2144	N09	E36	01	4.3		04	9	9	E	RAMY	7645	
01	AFS	1511E	2144	N11	E41	01	4.7		01	9	9	E	RAMY	7645	
01	ADF	1513E	2144	S07	E38	01	4.5	1	09	9	9	E	RAMY	7646	
01	DSD	1513E	2144	S09	E34	01	4.2		03	9	9	E	RAMY	7646	
01	AFS	1513E	2144	S11	E33	01	4.1		03	9	9	E	RAMY	7646	
01	AFS	1516E	2144	S16	E26	01	3.6		03	9	9	E	RAMY	7647	
01	APR	1518E	2144	N09	W86	12	26.3	1		9	9	E	RAMY	7640	
01	AFS	1518E	2144	N10	W78	12	26.9		02	9	9	E	RAMY	7640	
01	SSB	1521		271	W53	01	7.7			0	0	E	RAMY		
01	ASR	1540E	2349	N08	W90	12	26.0			9	9	E	HOLL	7640	
01	DSD	1607E	1745D	S08	E39	01	4.6		02	9	9	E	HOLL	7646	
01	AFS	1615E	2349	S16	E25	01	3.6		01	9	9	E	HOLL	7647	
01	APR	1653E	2349	N10	W90	12	26.0			9	9	E	HOLL	7640	
01	DSD	1743E	1819D	S15	E27	01	3.8		02	9	9	E	HOLL	7647	Flare Associated
01	ASR	2238E	1028	N09	W90	12	26.3			9	9	E	LEAR	7640	
01	AFS	2238E	1028	S10	E27	01	4.0		03	9	9	E	LEAR	7646	
02	ASR	0759E	1335	N11	W90	12	26.7			9	9	E	SVTO	7644	
02	ASR	1105E	1335	N04	W90	12	26.8			9	9	E	SVTO	7641	
02	DSD	1330E	1335	S08	E19	01	4.0		01	9	9	E	SVTO	7646	
02	AFS	1330E	1335	S16	E15	01	3.7		02	9	9	E	SVTO	7647	
02	DSD	1508E	1520D	S07	E22	01	4.3		03	9	9	E	RAMY	7646	
02	AFS	1508E	2135	N13	E25	01	4.5		02	9	9	E	RAMY	7645	
02	AFS	1510E	2135	S09	E17	01	3.9		01	9	9	E	RAMY	7646	
02	AFS	1511E	2135	S06	E21	01	4.2		02	9	9	E	RAMY	7646	
02	ADF	1512E	2135	S13	E12	01	3.5	1	04	9	9	E	RAMY	7647	
02	AFS	1512E	2135	S15	E10	01	3.4		02	7	7	E	RAMY	7647	
02	APR	1518E	2135	N00	W90	12	27.0	1		9	9	E	RAMY		
02	ASR	1518E	2135	N04	E90	01	9.4			9	9	E	RAMY		
02	ASR	1518E	2135	N13	W90	12	26.9			9	9	E	RAMY		
02	ASR	1721E	2354	N06	E90	01	9.4			9	9	E	HOLL		
02	ADF	1808E	0345	S16	E12	01	3.7	1	06	9	9	E	PALE	7647	
02	ADF	1815E	0345	N13	E19	01	4.2	1	04	9	9	E	PALE	7645	
02	AFS	2014E	0345	S09	E16	01	4.0		03	9	9	E	PALE	7646	
02	AFS	2047E	2354	S09	E16	01	4.1		02	9	9	E	HOLL	7646	
02	ASR	2126E	0345	N06	E90	01	9.6			9	9	E	PALE		
02	ASR	2145E	2354	N11	W90	12	27.2			7	9	E	HOLL	7644	
02	AFS	2348E	0154D	N13	E19	01	4.4		04	9	9	E	LEAR	7645	
02	AFS	2348E	1018	S10	E14	01	4.0		02	9	9	E	LEAR	7646	
02	ASR	2349E	1018	N06	E90	01	9.7			9	9	E	LEAR		
03	DSD	0125E	0226D	N14	E13	01	4.0		05	9	9	E	LEAR	7645	
03	ADF	0141E	1018	N15	E16	01	4.3	1	05	9	9	E	LEAR	7645	
03	AFS	0421E	1018	S15	E05	01	3.5		02	9	9	E	LEAR	7647	
03	DSD	0730E	1516	S08	E11	01	4.1		01	9	9	E	SVTO	7646	
03	AFS	0735E	1516	S11	E21	01	4.9		01	9	9	E	SVTO		
03	DSD	0743E	1516	N07	E78	01	9.2		01	9	9	E	SVTO		
03	AFS	1135E	2058	S10	E08	01	4.1		02	9	9	E	RAMY	7646	
03	DSD	1140E	1739D	S12	E06	01	3.9		01	9	9	E	RAMY	7646	
03	AFS	1145E	2058	N04	E11	01	4.3		01	9	9	E	RAMY	7645	
03	DSD	1148E	2058	N08	E13	01	4.5		02	9	9	E	RAMY	7645	
03	ADF	1209E	2058	S17	E07	01	4.0	1	07	9	9	E	RAMY	7647	
03	AFS	1210E	2058	S16	E03	01	3.7		02	9	6	E	RAMY	7647	
03	DSD	1223E	2058	S13	E20	01	5.0		02	8	9	E	RAMY	7649	
03	ADF	1225E	2058	S12	E16	01	4.7	1	04	9	9	E	RAMY	7649	
03	BSD	1235E	1510D	N02	E83	01	9.7		06	5	9	E	RAMY		
03	AFS	1241E	1739D	N14	E19	01	5.0		02	9	9	E	RAMY	7645	
03	DSD	1332E	1516	S19	E19	01	5.0		02	9	9	E	SVTO		
03	ADF	1334E	1516	S12	E16	01	4.8	1	03	9	9	E	SVTO		
03	AFS	1426E	2058	N02	E14	01	4.6		02	9	9	E	RAMY	7645	
03	AFS	1509E	2058	N04	E77	01	9.4		05	9	9	E	RAMY	7648	
03	BSD	1620	1650D	N03	E78	01	9.5		11	9	9	E	RAMY		Flare Associated
03	AFS	1711E	2359	N06	E75	01	9.3		02	9	9	E	HOLL	7648	
03	BSD	1808E	1851D	N06	E75	01	9.4		15	9	9	E	HOLL	7648	Flare Associated
03	BSD	1821E	1904D	N03	E77	01	9.5		13	9	9	E	RAMY	7648	Flare Associated
03	AFS	1835E	0359	N08	E08	01	4.4		02	9	9	E	PALE	7645	
03	DSD	1835E	0359	N09	E15	01	4.9		02	9	9	E	PALE	7645	

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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
03	DSD	1835E	0359	N10	E02	01	3.9		02	9	9	E	PALE	7645	
03	ASR	1835E	1930D	N03	E90	01	10.5			9	9	E	PALE		
03	AFS	1837E	0359	S07	E06	01	4.2		02	9	9	E	PALE	7646	
03	ADF	1837E	0359	S07	E10	01	4.5	1	04	8	8	E	PALE	7646	
03	DSD	1837E	0359	S10	E07	01	4.3		02	9	9	E	PALE	7646	
03	ADF	1837E	0359	S19	W04	01	3.5	1	03	9	9	E	PALE	7646	
03	AFS	1846E	2359	S10	E04	01	4.1		02	9	9	E	HOLL	7646	
03	DSD	1915E	2029D	N15	E14	01	4.9		01	9	9	E	RAMY	7645	
03	BSD	1945	2022D	N03	E76	01	9.5		14	9	9	E	RAMY	7648	Flare Associated
03	BSD	1950E	2023D	N06	E75	01	9.4		15	9	9	E	HOLL	7648	Flare Associated
03	ADF	2058E	2359	S14	E10	01	4.6		05	5	8	E	HOLL	7649	
03	BSD	2217E	2359	N06	E70	01	9.2		04	9	7	E	HOLL	7648	
03	AFS	2230E	2359	N13	E03	01	4.2		03	4	5	E	HOLL	7645	
03	DSD	2230E	2359	N14	E13	01	4.9		02	7	7	E	HOLL	7645	
03	DSD	2254E	1040	N15	E08	01	4.5		10	9	9	E	LEAR	7645	
03	AFS	2256E	1040	N11	E03	01	4.2		02	9	9	E	LEAR	7645	
03	AFS	2348E	1040	S10	E14	01	5.0		02	9	9	E	LEAR	7646	
04	AFS	0022E	0359	N08	E76	01	9.7		02	9	9	E	PALE	7648	
04	ADF	0022E	0359	S14	E10	01	4.8	1	05	8	8	E	PALE	7649	
04	ADF	0131E	1040	S14	E06	01	4.5	1	05	9	9	E	LEAR	7649	
04	AFS	0245E	1040	S10	E00	01	4.1		02	8	8	E	LEAR	7646	
04	DSD	0322E	0359	N10	E10	01	4.9		10	9	9	E	PALE	7645	Flare Associated
04	DSD	0610E	1040	N07	E67	01	9.3		04	9	9	E	LEAR	7648	
04	AFS	0954E	1102	S09	W05	01	4.0		02	9	9	E	SVTO	7646	
04	AFS	1011E	1102	N04	E66	01	9.3		03	9	9	E	SVTO	7648	
04	DSD	1012E	1102	N05	E63	01	9.1		02	9	9	E	SVTO	7648	
04	AFS	1021E	1102	N11	E00	01	4.4		02	9	9	E	SVTO	7645	
04	AFS	1021E	1102	N13	E00	01	4.4		02	9	9	E	SVTO	7645	
04	AFS	1032E	1102	S15	W10	01	3.7		03	9	9	E	SVTO	7647	
04	ADF	1033E	1102	S14	W14	01	3.4	1	06	9	9	E	SVTO	7647	
04	DSD	1050E	1102	S10	W02	01	4.3		02	9	9	E	SVTO	7646	
04	AFS	1128E	1951	N12	W04	01	4.2		02	9	9	E	RAMY	7645	
04	DSD	1140E	1951	N11	E06	01	4.9		02	9	9	E	RAMY	7645	
04	AFS	1141E	1951	S07	W05	01	4.1		02	9	9	E	RAMY	7646	
04	AFS	1224E	1951	N03	E63	01	9.2		02	9	9	E	RAMY	7648	
04	DSD	1224E	1951	N03	E66	01	9.4		01	9	9	E	RAMY	7648	
04	ADF	1307E	1951	S13	E02	01	4.7	1	06	9	9	E	RAMY	7649	
04	AFS	1320E	1951	S16	W15	01	3.4		02	9	9	E	RAMY	7647	
04	AFS	1324E	1951	N13	E02	01	4.7		01	9	9	E	RAMY	7645	
04	AFS	1324E	1951	N14	E05	01	4.9		01	9	9	E	RAMY	7645	
04	APR	1524E	1951	N10	E90	01	11.4	1		9	9	E	RAMY		
04	DSF	1540U	2040U	N22	E21	01	6.3	2	13	0	0	E	HOLL		
04	AFS	1624E	1951	S09	W09	01	4.0		02	8	7	E	RAMY	7646	
04	DSD	1624E	1951	S09	W10	01	3.9		02	9	9	E	RAMY	7646	
04	AFS	1626E	2305D	N12	W09	01	4.0		03	9	9	E	HOLL	7645	
04	ADF	1634E	1951	N06	W08	01	4.1	1	04	9	9	E	RAMY	7645	
04	AFS	1639E	2102D	S15	W16	01	3.5		02	9	9	E	HOLL	7647	
04	DSD	1639E	1951	S16	W21	01	3.1		02	9	9	E	RAMY	7647	
04	ADF	1639E	1951	S18	W13	01	3.7	1	03	9	9	E	RAMY	7647	
04	ASR	1648E	1913D	N04	E90	01	11.4			9	9	E	RAMY		
04	DSD	1844E	2055D	N13	E03	01	5.0		03	8	9	E	HOLL	7645	
04	AFS	1854E	0339	N13	W09	01	4.1		03	9	9	E	PALE	7645	
04	DSD	1854E	0339	N14	W02	01	4.6		03	9	9	E	PALE	7645	
04	ADF	1902E	0339	S13	W09	01	4.1	1	04	9	9	E	PALE	7646	
04	ADF	1908E	0339	S15	E08	01	5.4	1	04	9	9	E	PALE	7649	
04	AFS	1911E	0339	N04	E62	01	9.4		03	9	9	E	PALE	7648	
04	ADF	1911E	0339	N06	E63	01	9.5	1	02	9	9	E	PALE	7648	
04	ASR	2300E	0017D	N05	E90	01	11.7			9	9	E	PALE		
05	AFS	0018E	0339	S07	W09	01	4.3		04	9	9	E	PALE	7646	
05	ASR	0320E	0339	N08	E90	01	11.9			9	9	E	PALE		
05	DSD	0605E	0724D	S11	W22	01	3.6		03	9	9	E	LEAR	7646	
05	DSD	0658E	0724D	S12	W26	01	3.3		03	9	9	E	LEAR	7647	Flare Associated
05	DSD	1234E	1805	N11	W02	01	5.4		02	9	9	E	RAMY	7645	
05	ADF	1235E	1624D	N16	W09	01	4.8	1	02	9	9	E	RAMY	7645	
05	DSD	1237E	1805	N02	E54	01	9.5		02	9	9	E	RAMY	7648	
05	AFS	1237E	1805	N03	E50	01	9.3		04	9	9	E	RAMY	7648	
05	DSD	1239E	1805	S09	W25	01	3.6		02	9	9	E	RAMY	7646	
05	DSD	1239E	1805	S10	W22	01	3.9		02	9	9	E	RAMY	7646	

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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
05	AFS	1240E	1805	S12	W17	01	4.2		03	9	9	E	RAMY	7646	
05	ADF	1241E	1805	S15	W26	01	3.6	1	02	8	8	E	RAMY	7647	
05	DSD	1242E	1805	S16	W34	01	2.9		01	9	9	E	RAMY	7647	
05	ASR	1247E	1550D	N14	W87	12	30.0			9	9	E	RAMY		
05	DSD	1452E	1805	S10	W28	01	3.5		03	9	9	E	RAMY	7646	Flare Associated
05	DSD	1501E	1805	N04	E73	01	11.1		01	9	9	E	RAMY		
05	AFS	1624E	1805D	N11	W22	01	4.0		02	9	9	E	RAMY	7645	
05	AFS	1632E	1805	S06	W23	01	4.0		01	9	9	E	RAMY	7646	
05	DSD	1637E	1805	N01	E59	01	10.1		02	9	9	E	RAMY		
05	AFS	1637E	1805D	N01	E60	01	10.2		01	9	9	E	RAMY		
05	ADF	1753E	2046	N10	W16	01	4.5	1	04	9	9	E	PALE	7645	
05	ADF	1753E	2046	N13	W18	01	4.4	1	06	9	9	E	PALE	7645	
05	DSD	1757E	2046	S07	W26	01	3.8		04	9	9	E	PALE	7646	Flare Associated
05	ADF	1758E	2046	S08	W22	01	4.1	1	03	9	9	E	PALE	7646	
05	AFS	1802E	2046	S06	W22	01	4.1		02	9	9	E	PALE	7646	
05	DSD	1808E	1835D	S09	W24	01	3.9		09	9	9	E	HOLL	7646	Flare Associated
05	AFS	1828E	2046	N03	E46	01	9.2		03	9	9	E	PALE	7648	
05	AFS	1917E	2004	N11	W26	01	3.8		03	9	9	E	HOLL	7645	
06	DSD	0755E	1510	S07	W37	01	3.5		05	9	9	E	SVTO	7646	
06	AFS	0755E	1510	S09	W38	01	3.5		02	9	9	E	SVTO	7646	
06	DSD	1025E	1418D	S10	W35	01	3.8		02	9	9	E	SVTO	7646	Flare Associated
06	DSD	1139E	2137	S07	W38	01	3.6		02	9	9	E	RAMY	7646	
06	DSD	1139E	2137	S09	W37	01	3.7		03	9	9	E	RAMY	7646	
06	DSD	1156E	2137	N01	E37	01	9.3		02	7	9	E	RAMY	7648	
06	AFS	1156E	2137	N04	E37	01	9.3		02	9	9	E	RAMY	7648	
06	DSD	1156E	2137	N07	E33	01	9.0		02	9	9	E	RAMY	7648	
06	DSD	1203E	2137	N02	E46	01	9.9		02	9	9	E	RAMY		
06	AFS	1203E	2137	N02	E48	01	10.1		01	9	9	E	RAMY		
06	DSD	1203E	2137	N02	E49	01	10.2		01	9	9	E	RAMY		
06	AFS	1210E	1510	N13	W34	01	3.9		02	5	5	E	SVTO	7645	
06	AFS	1212E	1510	S08	W32	01	4.1		02	9	9	E	SVTO	7646	
06	DSD	1213E	2137	N08	W36	01	3.8		02	9	9	E	RAMY	7645	
06	AFS	1213E	2137	N12	W34	01	3.9		01	9	9	E	RAMY	7645	
06	SSB	1220		163	W09	01	11.2			0	0	E	RAMY		188 W34 206 W52
06	AFS	1232E	1510	N04	E48	01	10.1		01	9	9	E	SVTO		
06	AFS	1418E	1510	N06	E36	01	9.3		03	9	9	E	SVTO	7648	
06	ADF	1539E	2137	S17	W38	01	3.8	1	04	9	9	E	RAMY	7647	
06	AFS	1602E	2330	N05	E45	01	10.0		01	9	9	E	HOLL	7650	
06	AFS	1615E	2137	S07	W35	01	4.0		02	9	9	E	RAMY	7646	
06	ADF	1616E	2137	S04	W36	01	4.0	1	02	9	9	E	RAMY	7646	
06	ADF	1620E	2003D	N15	W28	01	4.6	1	04	9	9	E	RAMY	7645	
06	AFS	1745E	0343D	N05	E32	01	9.1		04	9	9	E	PALE	7648	
06	DSD	1800E	0343	S08	W31	01	4.4		04	9	9	E	PALE	7646	
06	DSD	1800E	2127D	S08	W30	01	4.5		04	9	9	E	PALE	7646	
06	SSB	1855		184	W34	01	13.5			0	0	E	PALE		
06	DSD	1903E	1935D	S09	W38	01	3.9		04	9	9	E	RAMY	7646	Flare Associated
06	DSD	2014E	2137	S07	W40	01	3.8		02	9	9	E	RAMY		
06	AFS	2105E	0343	N03	E43	01	10.1		01	9	9	E	PALE	7650	
06	AFS	2105E	0343	N13	W31	01	4.5		02	9	9	E	PALE	7645	
06	AFS	2107E	0343	S18	W30	01	4.6		01	9	9	E	PALE		
06	DSF	2326U	1447U	S24	E12	01	7.9	2	10	0	0	E	HOLL		
07	AFS	0722E	1050	N07	E24	01	9.1		02	9	9	E	LEAR	7648	
07	AFS	0735E	1227	N04	E24	01	9.1		02	9	9	E	SVTO	7648	
07	ADF	0737E	1227	N13	W40	01	4.3	1	11	9	9	E	SVTO	7645	
07	DSD	0740E	1227	S15	W47	01	3.8		01	9	9	E	SVTO	7647	
07	ADF	0747E	1227	S11	W39	01	4.4	1	07	9	9	E	SVTO	7646	
07	DSD	0749E	1227	N03	E27	01	9.3		02	9	9	E	SVTO	7648	
07	AFS	0757E	1227	N02	E37	01	10.1		02	9	9	E	SVTO	7650	
07	DSD	0758E	1227	N03	E38	01	10.2		02	9	9	E	SVTO	7650	
07	AFS	0819E	1227	S10	W45	01	4.0		02	9	9	E	SVTO	7646	
07	DSD	0900E	1227	N06	E24	01	9.2		02	9	9	E	SVTO	7648	
07	DSD	0954E	1010D	S10	W44	01	4.1		08	9	9	E	LEAR	7646	
07	ADF	1132E	2112	S10	W45	01	4.1	1	04	9	9	E	RAMY	7646	
07	ADF	1132E	2112	S14	W41	01	4.4	1	03	9	9	E	RAMY	7646	
07	AFS	1139E	2112	N05	E24	01	9.3		02	9	9	E	RAMY	7648	
07	AFS	1140E	2112	N03	E34	01	10.0		02	9	9	E	RAMY	7650	
07	DSD	1140E	2112	N04	E35	01	10.1		02	9	9	E	RAMY	7650	
07	AFS	1159E	2112	S18	W39	01	4.5		01	7	6	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
07	ADF	1204E	2112	N10	W43	01	4.3	1	04	9	9	E	RAMY	7645	
07	ADF	1204E	2112	N11	W46	01	4.0	1	03	9	9	E	RAMY	7645	
07	ADF	1204E	2112	N17	W42	01	4.3	1	08	9	9	E	RAMY	7645	
07	SSB	1301		187	W47	01	14.8			0	0	E	RAMY		200 W60
07	AFS	1439E	0002	N04	E34	01	10.1		02	9	9	E	HOLL	7650	
07	AFS	1626E	0002	S18	W42	01	4.5		01	9	9	E	HOLL		
07	AFS	1759E	0148	N03	E31	01	10.1		02	9	9	E	PALE	7650	
07	AFS	1759E	0148	N05	E19	01	9.2		03	9	9	E	PALE	7648	
07	AFS	1800E	0148	S08	W45	01	4.4		02	9	9	E	PALE	7646	
07	AFS	1800E	0148	S18	W43	01	4.5		02	9	9	E	PALE		
07	ADF	1949E	0002	S09	W55	01	3.7	1	04	8	9	E	HOLL	7646	
07	DSD	2000E	2028D	N03	E30	01	10.1		02	9	9	E	PALE	7650	
07	SSB	2011		189	W52	01	15.4			0	0	E	PALE		
07	AFS	2046E	2112	N00	E43	01	11.1		01	9	9	E	RAMY		
07	DSD	2146E	2315D	S09	W56	01	3.7		04	9	9	E	HOLL	7646	Flare Associated
07	DSD	2235E	2324D	S09	W56	01	3.7		03	9	9	E	LEAR	7646	
07	DSD	2251E	0231D	S17	W61	01	3.3		04	9	9	E	LEAR	7647	
07	ADF	2315E	0343D	S06	W54	01	3.9	1	10	9	9	E	LEAR	7646	
07	DSF	2326U	1447U	S27	E31	01	10.4	2	10	0	0	E	HOLL		
08	AFS	0001E	1050	N07	E17	01	9.3		03	9	9	E	LEAR	7648	
08	DSF	0018U	0410U	S06	W54	01	4.0	2	10	0	0	E	LEAR	7646	
08	DSD	0203E	0316D	N05	E27	01	10.1		01	9	9	E	LEAR	7650	
08	ADF	0306E	0935D	S11	W60	01	3.6	1	04	9	9	E	LEAR	7646	
08	AFS	1133E	2130	S08	W59	01	4.0		02	9	9	E	RAMY	7646	
08	AFS	1142E	2130	N06	E11	01	9.3		01	9	9	E	RAMY	7648	
08	AFS	1158E	2130	N04	E20	01	10.0		02	9	9	E	RAMY	7650	
08	AFS	1205E	2130	N12	W61	01	3.9		02	9	9	E	RAMY	7645	
08	SSB	1212		187	W60	01	16.2			0	0	E	RAMY		
08	ADF	1216E	2130	S09	W60	01	4.0	1	05	9	9	E	RAMY	7646	
08	ADF	1223E	2130	S13	W52	01	4.6	1	05	9	9	E	RAMY	7649	
08	AFS	1439E	0002	N04	E34	01	11.1		02	9	9	E	HOLL	7650	
08	DSD	1530E	2130	N05	E02	01	8.8		01	9	9	E	RAMY	7648	
08	ADF	1532E	2130	N10	W59	01	4.2	1	03	9	9	E	RAMY	7645	
08	ADF	1535E	2130	S15	W65	01	3.7	1	04	8	9	E	RAMY	7647	
08	DSD	1537E	2130	S17	W54	01	4.5		01	8	8	E	RAMY		
08	ADF	1949E	0002	S09	W55	01	4.7	1	04	8	9	E	HOLL	7646	
09	ADF	0220E	1050	S16	W60	01	4.5	1	04	9	8	E	LEAR		
09	AFS	0250E	1050	N07	E02	01	9.3		04	9	9	E	LEAR	7648	
09	AFS	0845E	1050	N09	W23	01	7.6		01	9	9	E	LEAR		
09	AFS	1134E	1941	N05	E07	01	10.0		02	9	9	E	RAMY	7650	
09	AFS	1134E	1941	N05	W02	01	9.3		02	9	9	E	RAMY	7648	
09	AFS	1208E	1427D	S17	W65	01	4.6		02	9	7	E	RAMY		
09	SSB	1209		183	W69	01	17.0			0	0	E	RAMY		
09	ADF	1216E	1403D	N13	W72	01	4.1	1	04	9	9	E	RAMY	7645	
09	APR	1403E	1941	S16	W90	01	2.7	1		9	9	E	RAMY	7647	
09	ADF	1410E	1941	N06	E05	01	10.0	1	02	9	9	E	RAMY	7650	
09	DSD	1422E	1452	N04	E08	01	10.2		01	9	9	E	SVTO	7650	
09	DSD	1422E	1452	N06	W02	01	9.4		01	9	9	E	SVTO	7648	
09	AFS	1422E	1452	N14	W67	01	4.5		02	9	9	E	SVTO	7645	
09	AFS	1422E	1452	S14	W69	01	4.4		02	9	9	E	SVTO	7649	
09	DSD	1610E	1941	N06	W09	01	9.0		02	9	9	E	RAMY	7648	
09	DSD	1610E	1941	N06	W11	01	8.8		03	9	9	E	RAMY	7648	
09	AFS	1612E	1941	N09	W74	01	4.1		02	9	9	E	RAMY	7645	
09	DSD	1615E	1941	N08	W27	01	7.6		01	9	8	E	RAMY		
09	AFS	1806E	0004	N06	W10	01	9.0		02	9	9	E	HOLL	7648	
09	DSD	1820E	0353	N07	W11	01	8.9		02	9	9	E	PALE	7648	
09	AFS	1820E	0353	N08	W14	01	8.7		02	9	9	E	PALE	7648	
09	ADF	1820E	0353	N17	W66	01	4.7	1	02	9	9	E	PALE	7645	
09	AFS	1820E	0353	S08	W76	01	4.1		02	9	9	E	PALE	7646	
09	APR	1820E	0353	S15	W90	01	2.9	1		9	9	E	PALE	7647	
09	AFS	1825E	0353	N02	E17	01	11.0		02	9	9	E	PALE		
09	AFS	1825E	0353	N03	E08	01	10.4		02	9	9	E	PALE	7650	
09	DSD	1825E	0353	N04	E03	01	10.0		03	9	9	E	PALE	7650	
09	AFS	1825E	0353	N08	W29	01	7.6		02	9	9	E	PALE		
09	AFS	1825E	0353	S10	W69	01	4.6		02	9	9	E	PALE		
09	SSB	1910		170	W60	01	15.9			0	0	E	PALE		
09	BSD	1928E	0004	S09	W80	01	3.8		04	9	9	E	HOLL	7646	
09	AFS	1935E	0004	N08	W27	01	7.8		02	9	9	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
09	APR	1942E	0004	S16	W90	01	3.0	2		9	9	E	HOLL		
09	ASR	2130E	0353	S08	W90	01	3.1			9	9	E	PALE	7646	
09	ASR	2235E	0845D	S09	W90	01	3.2			9	9	E	LEAR	7646	
10	BSD	0030E	0200D	S05	W83	01	3.8		03	9	9	E	LEAR	7646	
10	AFS	0340E	1048	N06	W16	01	8.9		02	9	9	E	LEAR	7648	
10	AFS	0725E	1048	N06	W04	01	10.0		04	9	8	E	LEAR	7650	
10	ASR	0955E	1048	N12	W90	01	3.6			9	8	E	LEAR	7645	
10	ASR	1123E	1415	N08	W90	01	3.7			9	9	E	SVTO		
10	AFS	1134E	2107	N05	W06	01	10.0		02	9	9	E	RAMY	7650	
10	DSD	1134E	2107	N07	W15	01	9.3		02	9	9	E	RAMY	7648	
10	ASR	1152E	2107	N13	W90	01	3.7			9	9	E	RAMY	7645	
10	APR	1157E	2107	S04	W90	01	3.8	1		9	9	E	RAMY		
10	AFS	1200E	1415	N04	W08	01	9.9		02	9	9	E	SVTO	7650	
10	DSD	1200E	1415	N06	W23	01	8.8		02	9	9	E	SVTO	7648	
10	ASR	1200E	1415	N10	W90	01	3.7			9	9	E	SVTO		
10	ASR	1205E	2107	S14	W90	01	3.7			9	9	E	RAMY	7649	
10	DSD	1214E	2107	N08	W22	01	8.9		04	9	9	E	RAMY	7648	
10	AFS	1216E	2107	N04	W08	01	9.9		02	9	9	E	RAMY	7650	
10	AFS	1217E	2107	N06	W06	01	10.1		02	9	9	E	RAMY	7650	
10	AFS	1300E	1415	N05	W17	01	9.3		02	9	9	E	SVTO	7648	
10	DSD	1600E	1753D	N04	W23	01	8.9		03	9	9	E	HOLL	7648	
10	ASR	1612E	2317	S10	W90	01	3.9			9	9	E	HOLL	7649	
10	AFS	1618E	2317	N05	W10	01	9.9		03	9	9	E	HOLL	7650	
10	AFS	1621E	2317	N06	W21	01	9.1		03	9	9	E	HOLL	7648	
10	AFS	1738E	2322	N05	W20	01	9.2		02	9	9	E	PALE	7648	
10	ADF	1738E	2322	N06	W18	01	9.4	1	05	9	9	E	PALE	7648	
10	ADF	1739E	2322	N04	W21	01	9.2	1	04	9	9	E	PALE	7648	
10	AFS	1745E	2322	N04	W10	01	10.0		03	9	9	E	PALE	7650	
10	ASR	1751E	1916D	N13	W90	01	3.9			9	9	E	PALE	7645	
10	ASR	1758E	2322	S14	W90	01	3.9			9	9	E	PALE	7649	
10	AFS	1758E	2107	N06	W19	01	9.3		02	9	9	E	RAMY	7648	
10	ASR	2310E	0148D	S12	W90	01	4.2			9	8	E	LEAR		
11	DSD	0025E	0150D	N04	W29	01	8.8		03	9	9	E	LEAR	7648	
11	ASR	0142E	1029	N03	W72	01	5.7			9	9	E	LEAR	7645	
11	ASR	0210E	1029	S15	W90	01	4.3			9	9	E	LEAR		
11	AFS	0454E	1029	N04	W18	01	9.8		02	8	9	E	LEAR	7650	
11	ADF	0630	1200	N25	E12	01	12.2						ATHN		
11	ASR	0744E	1007	S17	W90	01	4.5			9	9	E	SVTO		
11	AFS	1450E	2050	N04	W23	01	9.9		02	9	9	E	HOLL	7650	
11	ASR	1608E	2050	S15	W90	01	4.8			9	9	E	HOLL		
11	AFS	1734E	2053D	N08	W36	01	9.0		03	9	9	E	HOLL	7648	
11	ASR	1803E	2049D	N15	W90	01	4.9			9	9	E	HOLL		
11	DSD	1906E	2113	N04	W38	01	8.9		03	9	9	E	RAMY	7648	
11	ADF	1906E	2113	N12	W34	01	9.2	1	07	9	9	E	RAMY	7648	
11	DSD	1949E	2113	N03	W27	01	9.8		02	9	9	E	RAMY	7650	
11	AFS	1949E	2113	N04	W25	01	9.9		02	9	9	E	RAMY	7650	
11	ASR	1953E	2113	S17	W90	01	5.0			9	9	E	RAMY		
12	ASR	0015E	0215	S16	W90	01	5.2			9	9	E	LEAR		
12	AFS	1401E	2100	N04	W36	01	9.9		02	9	9	E	RAMY	7650	
12	AFS	1405E	2100	S07	W12	01	11.7		01	9	9	E	RAMY	7651	
12	ADF	1410E	1938D	N06	W42	01	9.4	1	02	9	9	E	RAMY	7650	
12	AFS	1447E	0007	S07	W13	01	11.6		02	7	6	E	HOLL	7651	
12	AFS	1453E	0007	N05	W37	01	9.8		01	9	9	E	HOLL	7650	
12	AFS	1555E	2100	N05	W49	01	9.0		01	9	9	E	RAMY	7648	
12	DSD	1647E	2025D	N03	W40	01	9.7		02	9	9	E	RAMY	7650	
12	DSD	1713E	2100	N09	W53	01	8.7		02	9	9	E	RAMY	7648	
13	AFS	1020E	1031	N07	W52	01	9.5		02	8	9	E	LEAR	7650	
13	AFS	1133E	2132	N05	W58	01	9.1		02	9	9	E	RAMY	7648	
13	ADF	1133E	2132	N06	W56	01	9.3	1	06	9	9	E	RAMY	7648	
13	AFS	1135E	2132	N04	W47	01	10.0		02	9	9	E	RAMY	7650	
14	DSD	0710E	0902D	S07	W38	01	11.4		01	9	9	E	SVTO	7651	
14	AFS	0710E	1436	S07	W36	01	11.6		02	9	9	E	SVTO	7651	
14	AFS	0711E	1436	N04	W61	01	9.7		02	9	9	E	SVTO	7650	
14	AFS	0903E	1436	S02	W51	01	10.6		03	9	9	E	SVTO		
14	AFS	1136E	2136	S06	W40	01	11.5		01	9	9	E	RAMY	7651	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMP CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
14	AFS	1137E	2136	N04	W60	01	10.0		02	9	9	E	RAMY	7650	
14	AFS	1250E	1436	S06	W62	01	9.9		01	9	9	E	SVTO		
14	AFS	1332E	2136	N08	W73	01	9.1		02	9	9	E	RAMY	7648	
14	ADF	1610E	2136	N04	W81	01	8.6	1	02	7	8	E	RAMY	7648	
14	ASR	1612E	2136	N07	E90	01	21.4			9	9	E	RAMY		
14	AFS	1718E	2319	N06	W67	01	9.7		01	9	9	E	HOLL	7650	
14	APR	1731E	2319	N03	E90	01	21.4			7	8	E	HOLL		
14	ASR	1742E	2319	N02	E90	01	21.5			6	5	E	HOLL		
14	DSD	1750E	1913D	N07	W68	01	9.6		03	9	9	E	HOLL	7650	
14	BSD	1750E	1913D	N07	W81	01	8.7		08	9	5	E	HOLL	7648	
14	ADF	1755E	2234D	N08	W83	01	8.5	1	03	9	9	E	HOLL	7648	
14	APR	1904E	2136	S01	E89	01	21.4	1		9	8	E	RAMY		
14	DSD	2012E	2136	S05	W69	01	9.7		01	8	8	E	RAMY		
14	AFS	2250E	0456	S08	W47	01	11.4		02	9	9	E	LEAR	7651	
14	ASR	2325E	0456	N02	E90	01	21.7			7	7	E	LEAR		
15	ASR	0930E	1347	N09	E90	01	22.1			9	9	E	SVTO		
15	APR	0956E	1347	N04	E90	01	22.1	1		9	8	E	SVTO		
15	DSD	1013E	1347	S10	W54	01	11.4		02	5	5	E	SVTO	7651	
15	ASR	1139E	1309D	N05	E90	01	22.2			9	9	E	RAMY		
15	ASR	1205E	1918	N08	W90	01	8.7			9	9	E	RAMY	7648	
15	DSD	1238E	1449D	S04	W77	01	9.8		02	9	9	E	RAMY		
15	APR	1239E	1519D	S03	E90	01	22.2	1		9	9	E	RAMY		
15	SPY	1307E	1311D	N07	E90	01	22.3	2	16				VALA		Rs,G?
15	BSL	1309E	1339D	N05	E90	01	22.3			9	9	E	RAMY		
15	LPS	1341E	1342D	N09	E90	01	22.3	1	05				VALA		G?
15	APR	1519E	1802D	N01	W90	01	8.9	1		9	9	E	RAMY	7648	
15	ASR	1732E	1918	N05	E89	01	22.4			9	9	E	RAMY	7652	
15	ASR	1954E	2230	S04	E90	01	22.5			9	9	E	HOLL	7652	
15	AFS	2334E	0445D	S06	W63	01	11.3		01	9	9	E	LEAR	7651	
15	ASR	2335E	0445D	S04	W90	01	9.2			9	9	E	LEAR	7653	
15	AFS	2340E	0445D	S08	W11	01	15.2		01	9	9	E	LEAR		
15	DSD	2341E	0135D	S07	W11	01	15.2		02	9	9	E	LEAR		
16	ASR	0044E	1000D	N05	W90	01	9.3			9	9	E	LEAR	7650	
16	ASR	0047E	1000D	N12	E90	01	22.8			9	7	E	LEAR		
16	AFS	0840E	1530	S08	W15	01	15.2		02	5	7	E	SVTO		
16	ASR	1050E	1530	N04	W90	01	9.7			9	9	E	SVTO	7650	
16	ASR	1202E	2057D	N06	W89	01	9.8			9	9	E	RAMY	7650	
16	ADF	1214E	1530	N01	E61	01	21.1	1	13	9	9	E	SVTO	7652	
16	DSD	1300E	1530	N05	E66	01	21.5		02	9	9	E	SVTO	7652	
16	ASR	1314E	1448D	S07	W90	01	9.8			9	9	E	RAMY	7653	
16	ASR	1316E	1857D	S04	W90	01	9.8			9	9	E	RAMY	7653	
16	AFS	1320E	1655D	S07	W18	01	15.2		02	8	9	E	RAMY	7655	
16	DSD	1329E	1857D	N04	E63	01	21.3		02	9	9	E	RAMY	7652	
16	DSD	1330E	2110D	N05	E77	01	22.3		02	9	9	E	RAMY	7654	
16	DSD	1338E	1705D	S07	W72	01	11.2		02	9	9	E	RAMY	7651	
16	AFS	1345E	1530	N09	W04	01	16.3		01	7	7	E	SVTO		
16	ASR	1431E	1722D	N07	E89	01	23.3			9	9	E	RAMY	7654	
16	ASR	1648E	2057D	N03	W90	01	10.0			9	9	E	RAMY	7650	
16	BSL	1802E	1827D	N03	E71	01	22.0			9	9	E	HOLL	7654	Flare Associated
16	BSL	1803E	1839D	N05	E73	01	22.2			9	9	E	RAMY	7654	Flare Associated
16	ASR	1913E	2110D	N10	E90	01	23.6			9	9	E	RAMY	7654	
16	ASR	2220E	0010D	S03	W90	01	10.2			9	9	E	HOLL	7651	
17	ASR	0044E	1000D	N05	W90	01	10.3			9	9	E	LEAR	7650	
17	AFS	0838E	1044	N07	E70	01	22.6		03	9	9	E	LEAR	7654	
17	ADF	1205E	2117	N07	E48	01	21.1	1	03	9	9	E	RAMY	7652	
17	AFS	1215E	1405	N09	E67	01	22.5		02	9	9	E	SVTO	7654	
17	AFS	1240E	2117	N07	E65	01	22.4		02	9	9	E	RAMY	7654	
17	AFS	1241E	2117	N08	E61	01	22.1		03	9	9	E	RAMY	7654	
17	DSD	1242E	2117	N05	E65	01	22.4		01	9	9	E	RAMY	7654	
17	DSD	1244E	2117	N02	E49	01	21.2		01	8	8	E	RAMY	7652	
17	AFS	1245E	2117	S07	W31	01	15.2		02	9	9	E	RAMY	7655	
17	DSD	1345E	2117	N04	E52	01	21.5		02	9	9	E	RAMY	7652	
17	ASR	2220E	0010D	S03	W90	01	11.2			9	9	E	HOLL	7651	
18	AFS	0743E	1052	N10	E57	01	22.6		02	9	7	E	LEAR	7654	
18	BSD	1526E	1912D	N08	E50	01	22.4		03	9	9	E	RAMY	7654	
18	DSD	1526E	2053	N09	E48	01	22.2		04	9	9	E	RAMY	7654	

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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
18	ADF	1526E	2053	N09	E53	01	22.6	1	03	9	9	E	RAMY	7654	
18	AFS	1536E	2053	S19	W06	01	18.2		02	5	5	E	RAMY	7656	
18	DSD	1600E	1732D	N07	E45	01	22.0		02	9	9	E	HOLL	7654	
18	AFS	1820E	0012	S20	W07	01	18.2		02	9	9	E	HOLL	7656	
18	AFS	1827E	2045D	N07	E48	01	22.4		02	9	9	E	HOLL	7654	
18	DSD	1834E	2045D	N14	E50	01	22.5		02	9	9	E	HOLL	7654	
18	DSD	2320E	0012	N09	E46	01	22.4		04	9	9	E	HOLL	7654	
19	AFS	0945E	1045	N10	E43	01	22.6		02	6	9	E	LEAR	7654	
19	DSD	1141E	1808D	N02	E26	01	21.4		02	9	9	E	RAMY	7652	
19	DSD	1141E	1808D	N05	E24	01	21.3		02	9	9	E	RAMY	7652	
19	ADF	1142E	1741D	N10	E41	01	22.6	1	03	9	9	E	RAMY	7654	
19	SSB	1201		377	W34	01	13.4			0	0	E	RAMY		
19	ASR	1638E	1933	S17	E90	01	26.5			9	9	E	HOLL		
19	DSF	1730U	1217U	N07	W30	01	17.5	2	04	0	0	E	RAMY		
19	ASR	2122E	0013	S16	E90	01	26.7			9	9	E	HOLL		
20	AFS	0649E	1031	N11	E31	01	22.6		03	9	9	E	LEAR	7654	
20	AFS	1015E	1031	N04	E12	01	21.3		02	9	9	E	LEAR	7652	
20	DSD	1204E	2153	N06	E08	01	21.1		02	9	9	E	RAMY	7652	
20	AFS	1207E	1701D	N08	E26	01	22.4		02	9	9	E	RAMY	7654	
20	AFS	1208E	1701D	N10	E22	01	22.1		02	8	9	E	RAMY	7654	
20	AFS	1209E	2153	N10	E28	01	22.6		03	9	9	E	RAMY	7654	
20	DSD	1244E	1701D	N12	E22	01	22.2		01	9	9	E	RAMY	7654	
20	DSD	1245E	2153	N05	E31	01	22.8		02	9	9	E	RAMY	7654	
20	DSD	1335E	2153	S03	E35	01	23.2		01	9	9	E	RAMY		
20	DSD	1335E	2153	S06	E33	01	23.0		02	9	9	E	RAMY		
20	AFS	1655E	2153	N11	W04	01	20.4		01	9	9	E	RAMY		
20	AFS	1740E	2352	N10	E26	01	22.7		02	9	9	E	HOLL	7654	
20	AFS	1744E	2352	N12	W04	01	20.4		02	9	9	E	HOLL		
20	DSD	1756E	1951D	N12	W05	01	20.4		01	9	9	E	RAMY		
20	APR	1801E	2153	S07	E90	01	27.5	1		9	9	E	RAMY		
20	APR	1801E	2153	S18	E90	01	27.6	1		9	9	E	RAMY		
20	DSD	1825E	2352	N02	E08	01	21.4		03	9	9	E	HOLL	7652	
21	AFS	0245E	0915D	N05	E20	01	22.6		03	8	8	E	LEAR	7654	
21	AFS	1155E	1722	N07	E19	01	22.9		02	9	9	E	RAMY	7654	
21	AFS	1303E	1722	N11	W14	01	20.5		02	9	9	E	RAMY		
21	AFS	1311E	1722	S14	E70	01	26.8		02	9	9	E	RAMY		
21	AFS	1539E	0015	N12	W19	01	20.2		02	9	9	E	HOLL	7657	
21	DSD	1540E	0015	N04	E15	01	22.8		02	7	8	E	HOLL	7654	
21	DSD	1617E	1722	N01	W06	01	21.2		02	9	9	E	RAMY	7652	
21	DSD	1618E	1722	N03	E15	01	22.8		02	9	9	E	RAMY	7654	
21	ADF	1620E	1722	N03	E11	01	22.5	1	04	9	9	E	RAMY	7654	
21	DSD	1622E	1722	S03	E19	01	23.1		01	9	9	E	RAMY		
21	DSF	1747U	2015U	S23	W03	01	21.5	2	10	0	0	E	HOLL		
21	AFS	1820E	0015	S16	E67	01	26.8		02	9	9	E	HOLL		
21	DSD	2000E	2218D	N12	W21	01	20.2		02	9	9	E	HOLL	7657	
21	ADF	2230E	0015	N04	E08	01	22.5	1	06	9	9	E	HOLL	7654	
22	AFS	0510E	0935D	N11	W26	01	20.2		02	9	9	E	LEAR	7657	
22	AFS	0855E	0939	N09	E02	01	22.5		02	9	9	E	SVTO	7654	
22	AFS	0855E	0939	N10	W02	01	22.2		01	9	9	E	SVTO	7654	
22	AFS	0910E	0939	N09	W29	01	20.2		03	9	9	E	SVTO	7657	
22	AFS	0937E	0939	N11	E20	01	23.9		02	9	9	E	SVTO		
22	DSD	1127E	2009	N11	E02	01	22.6		03	9	9	E	RAMY	7654	
22	DSD	1131E	2009	N10	W33	01	20.0		04	9	9	E	RAMY	7657	
22	DSD	1132E	1623D	S05	E08	01	23.1		01	8	7	E	RAMY		
22	AFS	1549E	0016	N12	W32	01	20.2		03	9	9	E	HOLL	7657	
22	AFS	1553E	0016	N06	W02	01	22.5		03	9	9	E	HOLL	7654	
22	AFS	1555E	0016	N10	E19	01	24.1		02	9	9	E	HOLL	7658	
22	AFS	1607E	0016	S14	E54	01	26.7		02	9	9	E	HOLL	7659	
22	DSD	2245E	0001D	N05	W21	01	21.4		02	9	9	E	HOLL	7652	
23	DSD	0110E	0521D	N06	W13	01	22.1		04	9	8	E	LEAR	7654	
23	AFS	0548E	1045	S13	E46	01	26.7		02	9	9	E	LEAR	7659	
23	DSD	0549E	0714D	N04	W24	01	21.4		02	9	9	E	LEAR	7652	
23	DSD	0739E	0905D	S04	E09	01	24.0		02	9	9	E	LEAR	7654	
23	AFS	0740E	1045	N10	W10	01	22.6		03	9	9	E	LEAR	7654	
23	AFS	0850E	1045	N09	W40	01	20.4		02	9	9	E	LEAR	7657	

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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
23	AFS	1125E	2057	N08	W12	01	22.6		02	9	9	E	RAMY	7654	
23	AFS	1125E	2057	N08	W16	01	22.3		02	9	9	E	RAMY	7654	
23	DSD	1127E	2057	N03	W14	01	22.4		02	9	9	E	RAMY	7654	
23	AFS	1129E	2057	N11	W41	01	20.4		03	9	9	E	RAMY	7657	
23	DSD	1220E	2057	N02	W31	01	21.2		01	9	9	E	RAMY	7652	
23	AFS	1221E	2057	N10	E08	01	24.1		02	9	9	E	RAMY	7658	
23	DSD	1221E	2057	N12	E09	01	24.2		01	9	9	E	RAMY	7658	
23	AFS	1222E	2057	S13	E44	01	26.8		02	9	9	E	RAMY	7659	
23	DSD	1318E	1621D	S16	E42	01	26.7		01	9	9	E	RAMY	7659	
23	DSD	1320E	1414D	N06	W18	01	22.2		04	9	9	E	RAMY	7654	Flare Associated
23	DSD	1400E	2057	N10	W49	01	19.9		01	9	9	E	RAMY	7657	
23	ASR	1420E	1622D	S01	E90	01	30.3			9	9	E	RAMY		
23	ADF	1524E	2057	S12	E85	01	30.0	1	09	9	9	E	RAMY	7660	
23	ASR	1628E	2057	N08	E90	01	30.4			6	4	E	RAMY		
23	AFS	1846E	2057	S10	E74	01	29.3		02	9	9	E	RAMY	7660	
24	AFS	0025E	1045	N10	W48	01	20.4		04	9	9	E	LEAR	7657	
24	AFS	0030E	1045	N11	E02	01	24.2		02	9	9	E	LEAR	7658	
24	ADF	0455E	1045	S05	E45	01	27.6	1	25	8	5	E	LEAR		
24	AFS	0750E	1045	N07	E45	01	27.7		03	9	9	E	LEAR		
24	AFS	0831E	1528	N06	E47	01	27.9		03	9	9	E	SVTO		
24	AFS	0831E	1528	N12	W02	01	24.2		03	9	9	E	SVTO	7658	
24	DSD	0854E	1401D	N10	W12	01	23.5		02	9	9	E	SVTO	7658	
24	AFS	0857E	1528	N11	W53	01	20.4		03	9	9	E	SVTO	7657	
24	ADF	0901E	1528	S11	W65	01	19.5	1	13	9	9	E	SVTO	7660	
24	AFS	1105E	1528	N11	W25	01	22.6		02	9	9	E	SVTO	7654	
24	ADF	1131E	1749	S07	E72	01	29.9	1	11	9	9	E	RAMY	7660	
24	AFS	1135E	1749	N11	W03	01	24.2		03	9	9	E	RAMY	7658	
24	DSD	1135E	1749	N12	W04	01	24.2		01	9	9	E	RAMY	7658	
24	AFS	1138E	1749	N06	E45	01	27.8		02	9	9	E	RAMY	7661	
24	APR	1141E	1749	N22	E90	01	31.4	1		9	9	E	RAMY		
24	SSB	1231		291	W14	01	31.4			0	0	E	RAMY		
24	AFS	1352E	1749	N09	E62	01	29.2		02	9	7	E	RAMY	7660	
24	APR	1401E	1528	N09	E90	01	31.3			3	3	E	SVTO		
24	ASR	1422E	1547D	N12	E90	01	31.4			5	4	E	RAMY		
24	DSD	1442E	1749	N12	W03	01	24.4		03	9	9	E	RAMY	7658	
24	AFS	1645E	1749	S14	E26	01	26.7		01	9	9	E	RAMY	7659	
24	DSD	1741E	1749	N05	W27	01	22.7		02	9	9	E	RAMY	7654	
24	AFS	1835E	2340	N06	E41	01	27.8		02	9	9	E	HOLL		
24	ASR	1842E	2205D	N17	E90	01	31.6			9	9	E	HOLL		
24	AFS	1853E	2340	N13	W08	01	24.2		02	9	9	E	HOLL	7658	
24	AFS	2345E	1045	N13	W11	01	24.1		03	9	9	E	LEAR	7658	
25	ADF	0600E	1045	S10	E33	01	27.7	1	17	9	9	E	LEAR		
25	AFS	0734E	1533	N13	W15	01	24.2		02	9	9	E	SVTO	7658	
25	ASR	0845E	0932D	N12	E90	02	1.1			9	9	E	SVTO		
25	AFS	0859E	1533	N08	W43	01	22.1		02	9	9	E	SVTO	7654	
25	DSD	0910E	1045	N06	E33	01	27.8		03	7	8	E	LEAR	7661	
25	DSD	0913E	1533	N07	E36	01	28.1		02	9	9	E	SVTO	7661	
25	DSD	1140E	2130	N08	W42	01	22.3		02	9	9	E	RAMY	7654	
25	AFS	1141E	2130	N09	W39	01	22.5		02	9	9	E	RAMY	7654	
25	DSD	1150E	1515D	N11	W66	01	20.5		04	9	9	E	RAMY	7657	
25	ADF	1155E	2130	S13	E54	01	29.6	1	05	9	9	E	RAMY	7660	
25	AFS	1204E	2130	N06	E31	01	27.8		02	9	9	E	RAMY	7661	
25	DSD	1205E	2130	N05	E33	01	28.0		02	9	9	E	RAMY	7661	
25	AFS	1216E	2130	N12	W18	01	24.1		02	9	9	E	RAMY	7658	
25	APR	1228E	2130	N15	E74	01	31.1	1		9	9	E	RAMY		
25	ASR	1229E	1636D	N20	E77	01	31.4			9	9	E	RAMY		
25	SSB	1242		291	W28	02	1.6			0	0	E	RAMY		
25	AFS	1400E	1533	N06	E29	01	27.7		02	9	9	E	SVTO	7661	
25	DSD	1413E	1533	N12	W21	01	24.0		02	9	9	E	SVTO	7658	
25	DSD	1515E	2130	N10	W77	01	19.8		13	9	9	E	RAMY	7657	
25	DSD	1618E	1800D	N11	W46	01	22.2		02	9	9	E	HOLL	7654	
25	DSD	1639E	2130	N09	W44	01	22.4		02	9	9	E	RAMY	7654	
25	DSD	1647E	2130	N11	W26	01	23.7		01	9	9	E	RAMY	7658	
25	DSD	1657E	1902D	N09	W46	01	22.2		05	9	9	E	RAMY	7654	Flare Associated
25	AFS	1750E	2125D	N13	W21	01	24.1		02	5	7	E	HOLL	7658	
25	AFS	1815E	0005	N06	E29	01	27.9		01	9	9	E	HOLL	7661	
25	DSD	2119E	0005	N14	W50	01	22.1		05	9	7	E	HOLL	7654	
25	AFS	2355E	0750	N11	W47	01	22.5		02	6	6	E	LEAR	7654	

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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
26	AFS	0545E	0750	N12	W28	01	24.1		02	7	9	E	LEAR	7658	
26	AFS	0711E	1500	N07	W45	01	22.9		02	9	9	E	SVTO	7654	
26	DSD	0712E	1500	N05	W47	01	22.8		02	9	9	E	SVTO	7654	
26	AFS	0936E	1500	N11	W34	01	23.8		02	9	9	E	SVTO	7658	
26	DSD	0937E	1500	N76	W13	01	25.2		02	9	9	E	SVTO	7658	
26	AFS	1023E	1500	N08	W54	01	22.4		02	9	9	E	SVTO	7654	
26	APR	1042E	1500	N27	E90	02	2.4	1		5	4	E	SVTO		
26	ASR	1056E	1136D	N05	W90	01	19.7			9	9	E	SVTO	7657	
26	DSD	1108	1120	N02	E54	01	30.5	1					KHAR		A,E,Ws
26	DSD	1209E	1500	N04	W53	01	22.5		02	9	9	E	SVTO	7654	
26	AFS	1224E	2127	N13	W30	01	24.2		02	9	9	E	RAMY	7658	
26	ADF	1229E	1649D	S14	E37	01	29.3	1	05	9	9	E	RAMY	7660	
26	AFS	1248E	2127	N08	W53	01	22.5		03	8	8	E	RAMY	7654	
26	ADF	1249E	2127	N06	W58	01	22.2	1	03	9	9	E	RAMY	7654	
26	ADF	1250E	2127	N10	W53	01	22.5	1	05	9	9	E	RAMY	7654	
26	APR	1252E	2127	N26	E90	02	2.5	1		7	8	E	RAMY		
26	ADF	1253E	2127	N15	E61	01	31.1	1	14	9	9	E	RAMY		
26	ADF	1302E	1500	S01	W47	01	23.0	1	05	9	9	E	SVTO	7660	
26	SSB	1337		250	W41	01	30.6			0	0	E	RAMY		
26	DSD	1430E	2127	N12	W30	01	24.3		05	9	9	E	RAMY	7658	
26	SSB	1438		249	W42	01	30.6			0	0	E	SVTO		
26	DSD	1528E	1638D	N10	E56	01	30.8		04	9	9	E	RAMY		
26	AFS	1658E	2127	N06	E15	01	27.8		01	9	9	E	RAMY	7661	
26	AFS	1900E	2127	N15	E05	01	27.2		01	9	9	E	RAMY		
26	DSD	2014E	2141	N11	W33	01	24.4		06	9	9	E	HOLL	7658	
26	DSD	2023E	2127	N11	W33	01	24.4		07	9	9	E	RAMY	7658	
27	AFS	0934E	1542	N08	W66	01	22.4		02	9	9	E	SVTO	7654	
27	DSD	0935E	1542	N06	W68	01	22.3		03	9	9	E	SVTO	7654	
27	AFS	0940E	1542	N08	W47	01	23.9		02	9	9	E	SVTO	7658	
27	DSD	0941E	1542	N10	W44	01	24.1		02	9	9	E	SVTO	7658	
27	ADF	0954E	1542	N12	E45	01	30.8	1	09	9	9	E	SVTO		
27	AFS	1005E	1542	S09	E24	01	29.2		02	9	9	E	SVTO	7660	
27	DSD	1011E	1322D	N13	W10	01	26.7		02	9	9	E	SVTO	7659	
27	AFS	1047E	1542	S16	E59	01	31.9		02	9	9	E	SVTO		
27	DSD	1048E	1542	S16	E56	01	31.7		02	9	9	E	SVTO		
27	ADF	1114E	1542	S11	E19	01	28.9	2	04	9	9	E	SVTO	7660	
27	DSD	1133E	2200	S17	E53	01	31.5		02	9	9	E	RAMY		
27	AFS	1133E	2200	S18	E55	01	31.7		02	9	9	E	RAMY		
27	DSD	1140E	1547D	N08	W67	01	22.5		04	9	9	E	RAMY	7654	
27	AFS	1142E	2200	N09	W64	01	22.7		02	9	7	E	RAMY	7654	
27	AFS	1221E	2200	N07	E05	01	27.9		01	9	9	E	RAMY	7661	
27	SSB	1312		267	W30	02	1.8			0	0	E	RAMY		291 W54
27	DSD	1356E	1547D	N05	W73	01	22.1		02	9	9	E	RAMY	7654	
27	DSD	1359E	1547D	N07	W73	01	22.1		03	9	9	E	RAMY	7654	Flare Associated
27	AFS	1401E	2200	N12	W45	01	24.2		02	9	9	E	RAMY	7658	
27	AFS	1401E	2200	S10	E22	01	29.2		02	9	9	E	RAMY	7660	
27	BSD	1527E	1655D	N14	W66	01	22.6		07	9	9	E	HOLL	7654	
27	DSD	1545E	2200	N14	W71	01	22.3		05	9	9	E	RAMY	7654	
27	DSD	1551E	1936D	N09	E42	01	30.8		02	9	9	E	HOLL		
27	BSD	1610E	2147D	N08	W73	01	22.2		05	9	9	E	HOLL	7654	Flare Associated
27	ADF	1653E	2200	S19	E52	01	31.7	1	03	9	9	E	RAMY		
27	AFS	1655E	2200	N13	E43	01	30.9		02	8	9	E	RAMY		
27	DSD	1658E	2200	N07	E05	01	28.1		02	9	9	E	RAMY	7661	
27	DSD	1700E	2200	N14	W52	01	23.8		02	9	9	E	RAMY	7658	
27	ASR	1756E	2200	N09	W90	01	21.0			9	9	E	RAMY	7654	
27	DSD	2030E	2147D	N12	W52	01	23.9		03	5	7	E	HOLL	7658	
27	ADF	2150E	0020	N09	W52	01	24.0	1	05	9	8	E	HOLL	7658	
27	APR	2155E	0020	N12	W90	01	21.1			9	9	E	HOLL	7654	
27	BSD	2203E	0020	N10	W72	01	22.5		03	9	9	E	HOLL	7654	
28	AFS	0001E	0505D	N10	W70	01	22.7		04	9	9	E	LEAR	7654	
28	BSD	0330E	0405D	N13	W74	01	22.6		03	9	9	E	LEAR	7654	
28	AFS	0555E	1045	S16	E48	01	31.9		02	9	9	E	LEAR		
28	ASR	0634E	1045	N07	W86	01	21.8			9	9	E	LEAR	7654	
28	AFS	0700E	1522	N08	W60	01	23.8		03	9	9	E	SVTO	7658	
28	DSD	0701E	0950D	N13	W75	01	22.6		02	9	9	E	SVTO	7654	
28	AFS	0702E	1522	N13	W75	01	22.6		03	9	9	E	SVTO	7654	
28	ASR	0704E	1106D	S09	E90	02	4.0			9	9	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

JANUARY 1994

Day	Event Type	Start (UT)	End (UT)	Lat	CMP CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
28	AFS	0714E	1522	S09	E12	01	29.2		02	9	9	E	SVTO	7660	
28	ASR	0716E	1140D	N09	W90	01	21.5			9	9	E	SVTO	7654	
28	AFS	0725E	1522	N16	E38	01	31.2		04	9	9	E	SVTO		
28	AFS	0727E	1522	S17	E47	01	31.9		01	9	9	E	SVTO		
28	APR	0739E	1522	N17	W90	01	21.5	1		6	6	E	SVTO		
28	ASR	1126E	1517D	N07	E89	02	4.1			9	9	E	RAMY	7654	
28	ASR	1128E	1137	N14	W90	01	21.7			9	9	E	SVTO	7654	
28	DSD	1129E	2121	N11	E51	02	1.3		02	9	9	E	RAMY	7658	
28	AFS	1129E	2121	N12	E55	02	1.6		02	9	9	E	RAMY	7658	
28	BSL	1137E	1203D	N15	E89	02	4.2			9	9	E	RAMY	7654	
28	BSL	1137	1150D	N14	W90	01	21.7			9	9	E	SVTO	7654	
28	AFS	1156E	1616D	S14	W25	01	26.6		02	9	9	E	RAMY	7659	
28	AFS	1158E	2121	S10	E09	01	29.2		02	9	9	E	RAMY	7660	
28	AFS	1159E	2121	N07	W08	01	27.9		03	9	9	E	RAMY	7661	
28	DSD	1200E	2121	N10	W09	01	27.8		02	9	9	E	RAMY	7661	
28	ASR	1203E	2121	N15	E89	02	4.2			9	9	E	RAMY	7654	
28	DSD	1207E	2121	N12	E34	01	31.1		01	9	9	E	RAMY		
28	AFS	1211E	2121	S18	E44	01	31.8		03	8	8	E	RAMY	7662	
28	DSD	1308E	1522	N12	W54	01	24.5		01	9	9	E	SVTO	7658	
28	ASR	1355E	1522	N07	W90	01	21.8			9	9	E	SVTO	7654	
28	ASR	1510E	2121	S09	E86	02	4.1			9	9	E	RAMY		
28	ADF	1515E	2121	N12	E08	01	29.2	1	04	9	9	E	RAMY	7660	
28	SSB	1644		231	W09	01	31.0			0	0	E	RAMY		270 W48 291 W69
28	LPS	1803E	2050D	N07	W90	01	22.0			9	9	E	HOLL	7654	
28	ASR	1850E	2121	N07	W90	01	22.0			9	9	E	HOLL	7654	
28	BSL	1923E	1936D	N08	W89	01	22.1			9	9	E	RAMY	7654	
29	AFS	0210E	0530	N07	W88	01	22.5		03	9	7	E	LEAR	7654	
29	ASR	0250E	1049	N07	W90	01	22.4			9	9	E	LEAR	7654	
29	ADF	0350E	0530	N09	W68	01	24.0	1	06	9	9	E	LEAR	7658	
29	ADF	0801E	1434	N09	W73	01	23.8	1	04	9	9	E	SVTO	7658	
29	ADF	0801E	1434	N14	E22	01	31.0	1	17	9	9	E	SVTO		
29	ASR	0818E	1423D	N06	W90	01	22.6			9	9	E	SVTO	7654	
29	ADF	1200E	1617D	N08	W80	01	23.5	1	03	9	9	E	RAMY	7659	
29	DSD	1204E	2150	S15	W39	01	26.5		02	9	9	E	RAMY	7659	
29	DSD	1205E	2150	S11	W38	01	26.6		01	9	9	E	RAMY	7659	
29	AFS	1210E	2150	S17	E30	01	31.8		02	9	9	E	RAMY	7662	
29	DSD	1230E	2150	S07	W03	01	29.3		01	9	9	E	RAMY	7660	
29	ADF	1233E	2150	S11	W05	01	29.1	1	04	9	9	E	RAMY	7660	
29	AFS	1235E	2150	N07	W19	01	28.1		03	9	9	E	RAMY	7661	
29	ASR	1445E	2147D	N04	W90	01	22.9			9	9	E	RAMY		
29	DSD	1502E	2150	N08	W26	01	27.7		01	9	9	E	RAMY	7661	
29	DSD	1503E	2150	N08	W25	01	27.7		02	9	9	E	RAMY	7661	
29	DSF	1640U	1719U	N16	W74	01	24.1	2	09	0	0	E	RAMY	7658	
29	BSL	1840	1904D	N05	W90	01	23.0			9	9	E	RAMY		
29	BSL	1851E	1909D	N07	W90	01	23.0			9	9	E	HOLL		
30	AFS	0220E	1045	S16	E23	01	31.8		02	9	7	E	LEAR	7662	
30	AFS	0719E	1548	S17	E20	01	31.8		01	9	9	E	SVTO	7662	
30	AFS	0740E	1548	N08	W32	01	27.9		01	9	9	E	SVTO	7661	
30	ADF	0755E	1045	S26	E24	02	1.2	1	17	9	9	E	LEAR	7662	
30	ASR	0852E	0912D	N05	W90	01	23.6			9	9	E	SVTO		
30	ASR	0925E	1045	N10	E90	02	6.1			9	9	E	LEAR	7665	
30	ASR	0927	1218D	N05	W90	01	23.7			9	9	E	SVTO		
30	ASR	0930E	1045	N03	W90	01	23.7			9	9	E	LEAR	7658	
30	ASR	1104E	1218D	N16	W90	01	23.6			9	9	E	SVTO	7658	
30	AFS	1133E	2136	S17	E17	01	31.8		02	9	9	E	RAMY	7662	
30	DSD	1141E	1656D	N09	W29	01	28.3		01	9	9	E	RAMY	7661	
30	DSD	1143E	1643D	S14	W51	01	26.6		02	9	9	E	RAMY	7659	
30	DSD	1207E	1548	N09	W37	01	27.7		02	9	9	E	SVTO	7661	
30	SSB	1227		201	W03	01	30.6			0	0	E	RAMY		216 W18 236 W38
30	ADF	1230E	2136	S13	W13	01	29.5	1	07	9	9	E	RAMY	7660	
30	ADF	1232E	2136	N23	E15	01	31.7	1	09	9	9	E	RAMY	7663	
30	DSD	1507E	1733D	S15	E60	02	4.2		02	9	9	E	RAMY		
30	AFS	1545E	1926	S17	E14	01	31.7		03	9	9	E	HOLL	7662	
30	AFS	1616E	1926	N10	W37	01	27.9		02	9	9	E	HOLL	7661	
30	DSD	1656E	2114D	N06	W39	01	27.8		01	7	8	E	RAMY	7661	
30	DSD	1703E	1926	S13	E60	02	4.2		03	9	9	E	HOLL		
30	DSD	1707E	1926	N08	W41	01	27.6		02	9	9	E	HOLL	7661	
30	DSD	1707E	1926	N10	W39	01	27.8		02	9	7	E	HOLL	7661	

ACTIVE PROMINENCES AND FILAMENTS

JANUARY 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
30	ASR	1707E	2136	N15	W90	01	23.9			9	9	E	RAMY	7658	
30	ASR	1710E	2136	N10	W90	01	23.9			9	9	E	RAMY	7658	
30	ASR	1714E	1926	N11	W90	01	23.9			9	9	E	HOLL	7658	
30	ASR	1714E	1926	N16	W90	01	23.9			9	9	E	HOLL	7658	
30	DSD	1738E	2136	N04	E67	02	4.7		01	9	9	E	RAMY	7665	
30	AFS	2325E	1045	S17	E00	01	31.0		03	9	9	E	LEAR	7662	
31	AFS	0725E	1225D	S17	E05	01	31.7		01	9	9	E	SVTO	7662	
31	DSD	0950E	1140D	N10	W48	01	27.8		02	9	9	E	SVTO	7661	
31	DSD	1130E	2048	S15	E03	01	31.7		03	9	9	E	RAMY	7662	
31	DSD	1133E	1638D	S15	W65	01	26.6		03	9	9	E	RAMY	7659	
31	AFS	1133E	2048	S14	W63	01	26.7		02	9	9	E	RAMY	7659	
31	ADF	1135E	2048	S11	W27	01	29.4	1	07	9	9	E	RAMY	7660	
31	ADF	1137E	2048	N26	E03	01	31.7	1	07	9	9	E	RAMY	7663	
31	AFS	1140E	1349	S13	W65	01	26.6		03	9	9	E	SVTO	7659	
31	DSD	1218E	2048	N09	W49	01	27.8		02	9	9	E	RAMY	7661	
31	DSD	1221E	2048	S15	E49	02	4.2		03	9	9	E	RAMY		
31	SSB	1225		203	W18	01	31.7			0	0	E	RAMY		218 W33 238 W53
31	DSF	2336U	1451U	S32	W06	01	31.5		17	0	0	E	HOLL		

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk
BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
DSF = Disappearing Solar Filament
EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF/DSF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

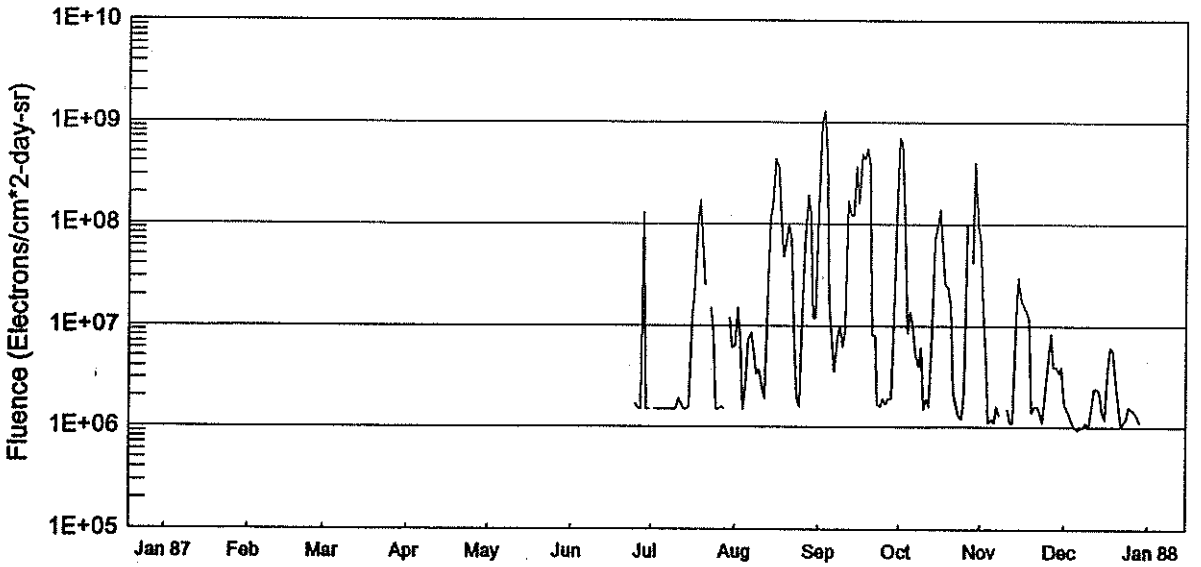
ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
CATA = Catania
HOLL = Holloman
KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
VORO = Voroshilov
VALA = Valasske Mezirici

CONTENTS

Comprehensive Reports Number 599 Part II

MISCELLANEOUS DATA

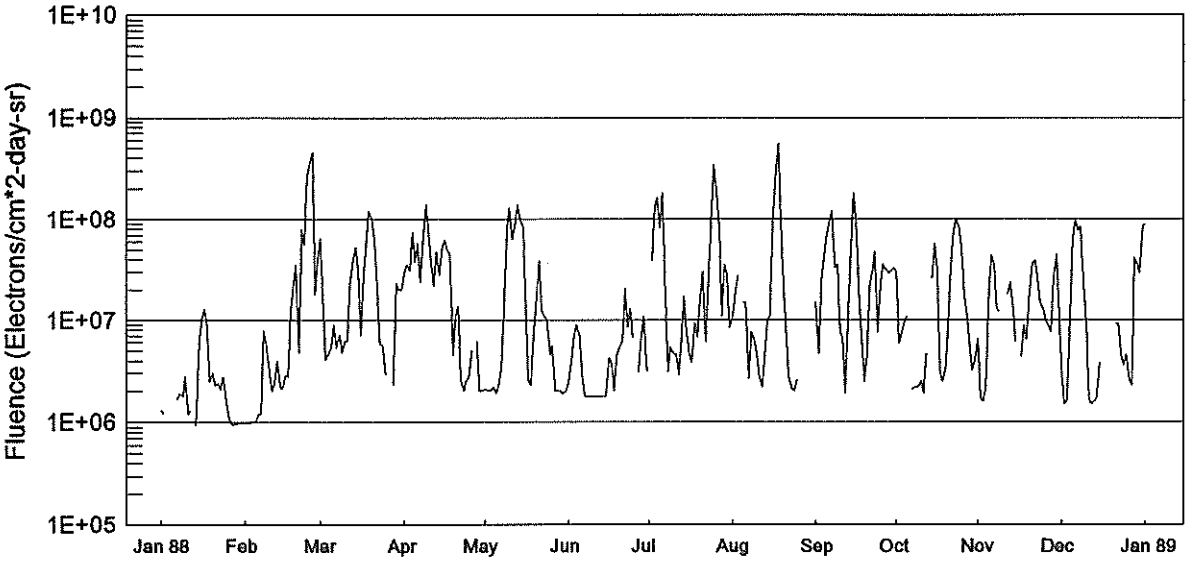
GOES7 Daily Electron Fluence - 1987



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	--	--	--	--	--	6.4E+06	1.3E+08	6.9E+08	1.5E+07	1.7E+06
2	--	--	--	--	--	--	1.5E+06	1.5E+07	9.9E+08	6.4E+08	5.3E+06	1.5E+06
3	--	--	--	--	--	--	1.5E+06	7.1E+06	1.3E+09	8.7E+07	1.1E+06	1.3E+06
4	--	--	--	--	--	--	1.5E+06	1.5E+06	4.8E+08	8.5E+06	1.2E+06	1.1E+06
5	--	--	--	--	--	--	1.5E+06	2.5E+06	1.7E+07	1.4E+07	1.1E+06	9.8E+05
6	--	--	--	--	--	--	1.5E+06	7.3E+06	6.3E+06	1.0E+07	1.6E+06	9.4E+05
7	--	--	--	--	--	--	1.5E+06	8.6E+06	3.5E+06	5.4E+06	1.3E+06	9.7E+05
8	--	--	--	--	--	--	1.5E+06	5.6E+06	7.7E+06	4.0E+06	-999	1.0E+06
9	--	--	--	--	--	--	1.5E+06	3.3E+06	1.0E+07	6.1E+06	-999	1.1E+06
10	--	--	--	--	--	--	1.5E+06	3.7E+06	6.2E+06	1.5E+06	1.5E+06	9.9E+05
11	--	--	--	--	--	--	1.9E+06	2.7E+06	9.0E+06	1.9E+06	1.1E+06	1.5E+06
12	--	--	--	--	--	--	1.7E+06	1.9E+06	1.7E+08	1.6E+06	1.1E+06	2.4E+06
13	--	--	--	--	--	--	1.5E+06	1.6E+07	1.2E+08	5.9E+06	1.2E+07	2.4E+06
14	--	--	--	--	--	--	1.5E+06	1.1E+08	1.2E+08	7.1E+07	3.0E+07	2.3E+06
15	--	--	--	--	--	--	1.6E+06	1.6E+08	3.6E+08	9.5E+07	1.8E+07	1.4E+06
16	--	--	--	--	--	--	1.3E+07	4.3E+08	1.6E+08	1.4E+08	1.6E+07	1.2E+06
17	--	--	--	--	--	--	2.0E+07	3.5E+08	4.8E+08	6.1E+07	1.4E+07	3.5E+06
18	--	--	--	--	--	--	9.5E+07	1.1E+08	4.3E+08	2.6E+07	1.2E+07	6.2E+06
19	--	--	--	--	--	--	1.7E+08	4.7E+07	5.5E+08	2.4E+07	1.4E+06	5.9E+06
20	--	--	--	--	--	--	6.5E+07	6.7E+07	3.7E+08	1.6E+07	1.6E+06	3.1E+06
21	--	--	--	--	--	--	2.5E+07	9.8E+07	8.3E+06	2.2E+06	1.6E+06	1.7E+06
22	--	--	--	--	--	4.1E+06	--	7.2E+07	7.9E+06	1.7E+06	1.4E+06	1.0E+06
23	--	--	--	--	--	3.9E+06	1.5E+07	6.6E+06	1.7E+06	1.3E+06	1.1E+06	1.1E+06
24	--	--	--	--	--	-999	8.2E+06	1.9E+06	1.6E+06	1.2E+06	2.4E+06	1.2E+06
25	--	--	--	--	--	1.7E+06	1.5E+06	1.6E+06	1.9E+06	2.3E+06	4.5E+06	1.6E+06
26	--	--	--	--	--	1.5E+06	1.5E+06	1.2E+07	1.7E+06	1.0E+08	8.4E+06	1.5E+06
27	--	--	--	--	--	1.5E+06	1.6E+06	6.1E+07	1.9E+06	-999	3.9E+06	1.4E+06
28	--	--	--	--	--	1.3E+08	1.5E+06	1.9E+08	1.9E+06	4.2E+07	4.0E+06	1.3E+06
29	--		--	--	--	1.5E+06	-999	1.2E+08	1.2E+07	4.0E+08	3.4E+06	1.1E+06
30	--		--	--	--	1.5E+06	1.2E+07	1.2E+07	1.2E+08	1.0E+08	3.9E+06	-999
31	--		--		--		6.1E+06	1.2E+07		6.9E+07		--

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. GOES6 data are not available due to sensor degradation. GOES 7 data begins in June 1987. '--' indicates data not available.

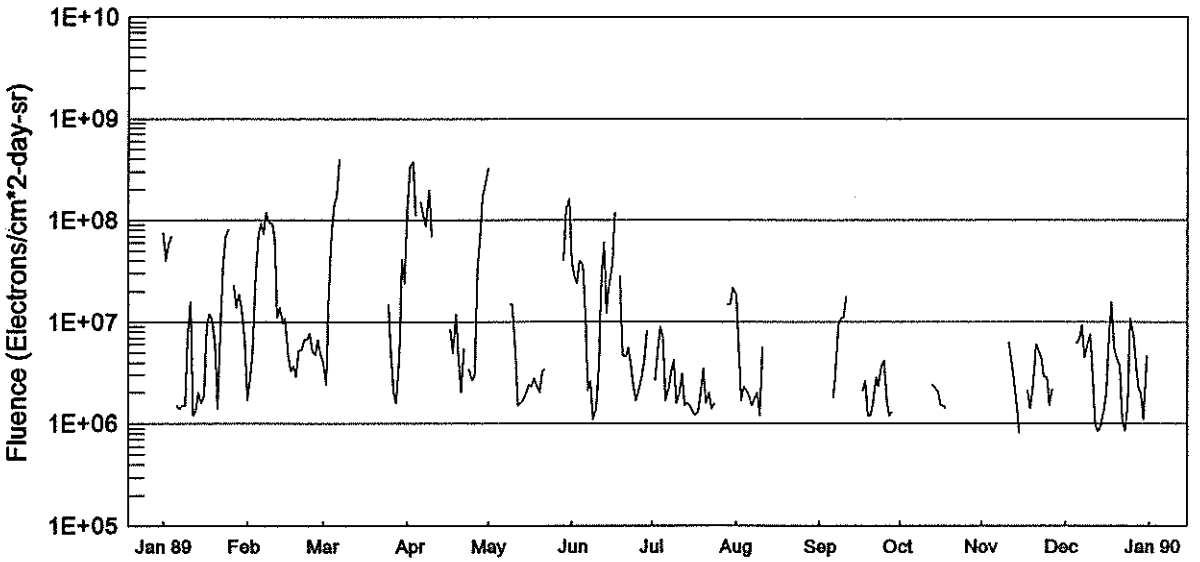
GOES7 Daily Electron Fluence - 1988



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.3E+06	9.8E+05	1.2E+07	3.5E+07	2.0E+06	3.8E+06	3.9E+07	1.8E+07	4.7E+06	5.9E+06	1.6E+06	1.5E+06
2	1.2E+06	9.9E+05	4.1E+06	3.1E+07	2.0E+06	6.8E+06	1.3E+08	2.8E+07	2.5E+07	7.8E+06	2.1E+06	1.6E+06
3	-999	9.9E+05	4.7E+06	7.5E+07	2.2E+06	9.1E+06	1.6E+08	-999	4.2E+07	1.0E+07	2.0E+07	7.3E+06
4	-999	1.0E+06	5.4E+06	3.8E+07	1.9E+06	7.2E+06	8.1E+07	1.5E+07	7.0E+07	1.1E+07	4.4E+07	6.4E+07
5	-999	1.0E+06	8.9E+06	5.8E+07	2.3E+06	2.9E+06	1.8E+08	1.5E+07	1.0E+08	-999	3.6E+07	9.8E+07
6	-999	1.2E+06	5.4E+06	2.4E+07	3.4E+06	1.8E+06	1.7E+07	2.7E+06	1.2E+08	2.1E+06	1.3E+07	7.7E+07
7	1.7E+06	1.2E+06	7.2E+06	5.9E+07	1.2E+07	1.8E+06	3.1E+06	7.6E+06	3.3E+07	2.2E+06	1.2E+07	8.4E+07
8	1.9E+06	7.9E+06	4.8E+06	1.4E+08	8.4E+07	1.8E+06	5.4E+06	6.5E+06	3.6E+07	2.2E+06	-999	2.7E+07
9	1.8E+06	5.8E+06	6.1E+06	7.2E+07	1.3E+08	1.8E+06	4.7E+06	5.0E+06	7.6E+06	2.5E+06	-999	9.3E+06
10	2.8E+06	3.1E+06	6.2E+06	3.6E+07	6.4E+07	1.8E+06	4.6E+06	2.9E+06	6.6E+06	1.9E+06	1.8E+07	1.7E+06
11	1.2E+06	2.0E+06	2.3E+07	2.2E+07	8.6E+07	1.8E+06	2.9E+06	2.2E+06	1.9E+06	4.7E+06	2.4E+07	1.5E+06
12	1.3E+06	2.4E+06	4.0E+07	4.7E+07	1.4E+08	1.8E+06	6.5E+06	4.5E+06	1.3E+07	-999	1.2E+07	1.6E+06
13	--	4.0E+06	5.3E+07	2.8E+07	1.0E+08	1.8E+06	1.7E+07	9.8E+06	5.2E+07	2.6E+07	6.0E+06	1.7E+06
14	9.3E+05	2.2E+06	3.0E+07	5.3E+07	8.3E+07	1.8E+06	7.4E+06	1.1E+07	1.8E+08	5.7E+07	-999	3.8E+06
15	6.1E+06	2.1E+06	7.1E+06	6.3E+07	1.3E+07	4.3E+06	4.4E+06	9.2E+07	9.3E+07	3.2E+07	4.4E+06	-999
16	1.0E+07	2.9E+06	2.6E+07	4.9E+07	2.6E+06	3.8E+06	3.8E+06	3.0E+08	1.5E+07	3.1E+06	8.9E+06	-999
17	1.3E+07	2.8E+06	6.8E+07	4.6E+07	2.3E+06	2.0E+06	9.5E+06	5.5E+08	6.1E+06	2.5E+06	6.3E+06	-999
18	9.1E+06	1.2E+07	1.2E+08	4.5E+06	6.8E+06	4.6E+06	6.8E+06	9.5E+07	2.5E+06	3.3E+06	1.6E+07	-999
19	2.5E+06	2.1E+07	9.9E+07	1.1E+07	1.7E+07	5.3E+06	1.6E+07	2.3E+07	4.5E+06	9.1E+06	3.6E+07	-999
20	3.0E+06	3.5E+07	6.0E+07	1.4E+07	3.9E+07	6.3E+06	3.0E+07	8.1E+06	2.2E+07	3.3E+07	3.9E+07	9.3E+06
21	2.3E+06	4.8E+06	2.2E+07	2.6E+06	1.2E+07	2.1E+07	6.0E+06	2.8E+06	3.2E+07	7.4E+07	2.7E+07	9.2E+06
22	2.4E+06	7.9E+07	5.9E+06	2.0E+06	1.1E+07	8.6E+06	2.4E+07	2.1E+06	4.8E+07	1.0E+08	1.5E+07	4.5E+06
23	2.1E+06	5.6E+07	5.5E+06	2.5E+06	1.0E+07	1.3E+07	9.3E+07	2.0E+06	7.6E+06	8.1E+07	1.3E+07	3.6E+06
24	2.8E+06	2.6E+08	2.9E+06	2.8E+06	4.6E+06	6.6E+06	3.4E+08	2.6E+06	2.2E+07	4.7E+07	1.0E+07	4.6E+06
25	1.6E+06	3.7E+08	-999	5.1E+06	5.6E+06	--	2.0E+08	-999	3.6E+07	1.7E+07	8.9E+06	2.6E+06
26	1.1E+06	4.5E+08	-999	-999	2.0E+06	3.1E+06	7.9E+07	-999	3.2E+07	1.1E+07	7.6E+06	2.3E+06
27	9.6E+05	1.8E+07	2.3E+06	6.1E+06	2.0E+06	6.6E+06	1.1E+07	-999	2.9E+07	4.9E+06	2.5E+07	4.1E+07
28	9.5E+05	4.0E+07	2.3E+07	2.0E+06	2.0E+06	1.1E+07	3.6E+07	-999	3.1E+07	3.2E+06	4.5E+07	3.7E+07
29	9.7E+05	6.5E+07	2.0E+07	2.0E+06	1.9E+06	3.1E+06	2.8E+07	-999	3.3E+07	4.3E+06	1.6E+07	2.9E+07
30	9.7E+05		2.0E+07	2.1E+06	2.0E+06	-999	8.4E+06	-999	3.0E+07	6.5E+06	2.8E+06	8.5E+07
31	9.8E+05		2.9E+07		2.5E+06		1.1E+07	1.5E+07		1.7E+06		8.8E+07

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

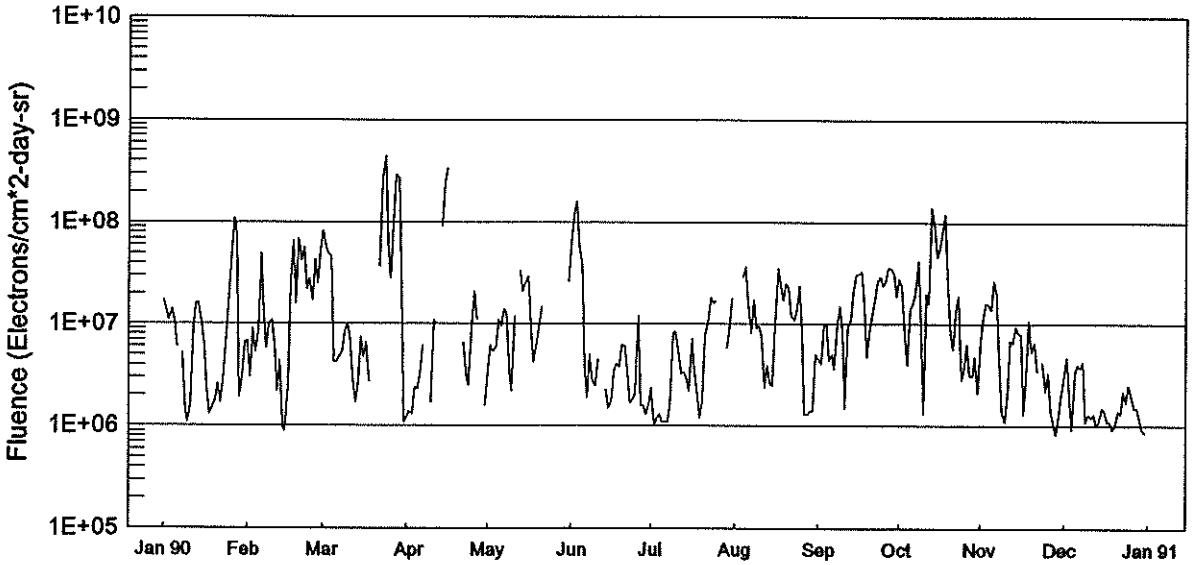
GOES7 Daily Electron Fluence - 1989



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.5E+07	1.7E+06	4.1E+06	1.2E+08	3.3E+08	3.8E+07	-999	1.9E+07	-999	-999	-999	-999
2	4.0E+07	2.7E+06	2.4E+06	3.4E+08	-999	2.8E+07	2.7E+06	5.6E+06	2.7E+07	-999	-999	-999
3	5.8E+07	5.1E+06	1.4E+07	3.8E+08	-999	2.4E+07	5.3E+06	1.7E+06	-999	-999	-999	-999
4	7.1E+07	2.3E+07	7.4E+07	1.1E+08	-999	4.0E+07	9.0E+06	2.3E+06	-999	-999	-999	-999
5	-999	7.1E+07	1.4E+08	--	-999	3.7E+07	7.2E+06	2.1E+06	-999	-999	-999	6.2E+06
6	1.5E+06	9.3E+07	1.7E+08	1.5E+08	-999	1.2E+07	1.7E+06	1.9E+06	1.8E+06	-999	-999	6.9E+06
7	1.4E+06	7.4E+07	4.0E+08	1.1E+08	-999	2.1E+06	2.2E+06	1.5E+06	2.8E+06	-999	-999	9.5E+06
8	1.5E+06	1.2E+08	-999	8.8E+07	-999	2.6E+06	3.2E+06	1.8E+06	9.4E+06	-999	-999	4.5E+06
9	1.5E+06	9.5E+07	-999	2.0E+08	1.5E+07	1.1E+06	4.3E+06	2.0E+06	1.1E+07	-999	-999	5.8E+06
10	6.8E+06	9.3E+07	-999	6.9E+07	1.5E+07	1.4E+06	1.6E+06	1.2E+06	1.1E+07	-999	6.3E+06	7.7E+06
11	1.6E+07	6.9E+07	-999	-999	5.1E+06	3.6E+06	2.0E+06	5.8E+06	1.8E+07	-999	4.1E+06	2.9E+06
12	1.2E+06	1.1E+07	-999	-999	1.5E+06	2.8E+07	3.1E+06	-999	-999	--	2.6E+06	9.7E+05
13	1.3E+06	1.4E+07	-999	-999	1.6E+06	6.1E+07	1.5E+06	-999	-999	2.4E+06	1.4E+06	8.5E+05
14	2.0E+06	9.6E+06	-999	-999	1.7E+06	1.2E+07	1.6E+06	-999	-999	2.2E+06	8.0E+05	9.4E+05
15	1.6E+06	1.1E+07	-999	-999	2.0E+06	2.3E+07	1.5E+06	-999	2.5E+06	2.0E+06	-999	1.3E+06
16	1.9E+06	4.8E+06	6.1E+06	-999	2.4E+06	3.6E+07	1.3E+06	-999	-999	1.5E+06	-999	2.0E+06
17	9.2E+06	3.3E+06	-999	8.6E+06	2.3E+06	1.2E+08	1.2E+06	-999	2.1E+06	1.5E+06	2.1E+06	7.2E+06
18	1.2E+07	3.7E+06	-999	5.0E+06	2.8E+06	-999	1.3E+06	-999	2.6E+06	1.4E+06	1.4E+06	1.6E+07
19	1.1E+07	2.9E+06	-999	1.2E+07	2.4E+06	2.8E+07	2.0E+06	-999	1.2E+06	-999	2.2E+06	5.5E+06
20	6.2E+06	5.2E+06	-999	4.2E+06	2.0E+06	4.7E+06	3.5E+06	-999	1.2E+06	--	6.0E+06	4.5E+06
21	1.4E+06	5.4E+06	--	2.0E+06	3.3E+06	4.6E+06	1.6E+06	-999	1.6E+06	-999	5.2E+06	3.7E+06
22	7.5E+06	6.8E+06	5.3E+06	5.5E+06	3.4E+06	5.5E+06	2.0E+06	-999	2.9E+06	--	4.5E+06	1.1E+06
23	3.3E+07	6.7E+06	-999	-999	-999	3.8E+06	1.4E+06	-999	2.3E+06	-999	2.9E+06	8.5E+05
24	6.8E+07	7.8E+06	-999	3.4E+06	-999	2.3E+06	1.6E+06	-999	3.7E+06	-999	2.9E+06	1.4E+06
25	8.1E+07	5.1E+06	1.5E+07	2.7E+06	-999	1.7E+06	-999	-999	4.2E+06	--	1.5E+06	1.1E+07
26	-999	4.8E+06	4.7E+06	3.0E+06	-999	2.2E+06	-999	-999	1.8E+06	-999	2.2E+06	7.7E+06
27	2.3E+07	6.7E+06	2.0E+06	3.3E+07	-999	2.9E+06	6.2E+06	-999	1.2E+06	-999	-999	4.1E+06
28	1.4E+07	4.9E+06	1.6E+06	6.5E+07	-999	4.3E+06	-999	-999	1.3E+06	-999	-999	2.2E+06
29	1.9E+07		4.6E+06	1.7E+08	4.0E+07	8.3E+06	1.5E+07	-999	-999	-999	-999	2.0E+06
30	1.4E+07		4.1E+07	2.4E+08	1.3E+08	-999	1.5E+07	-999	-999	-999	-999	1.1E+06
31	6.3E+06		2.4E+07		1.6E+08		2.2E+07	-999		-999		4.8E+06

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

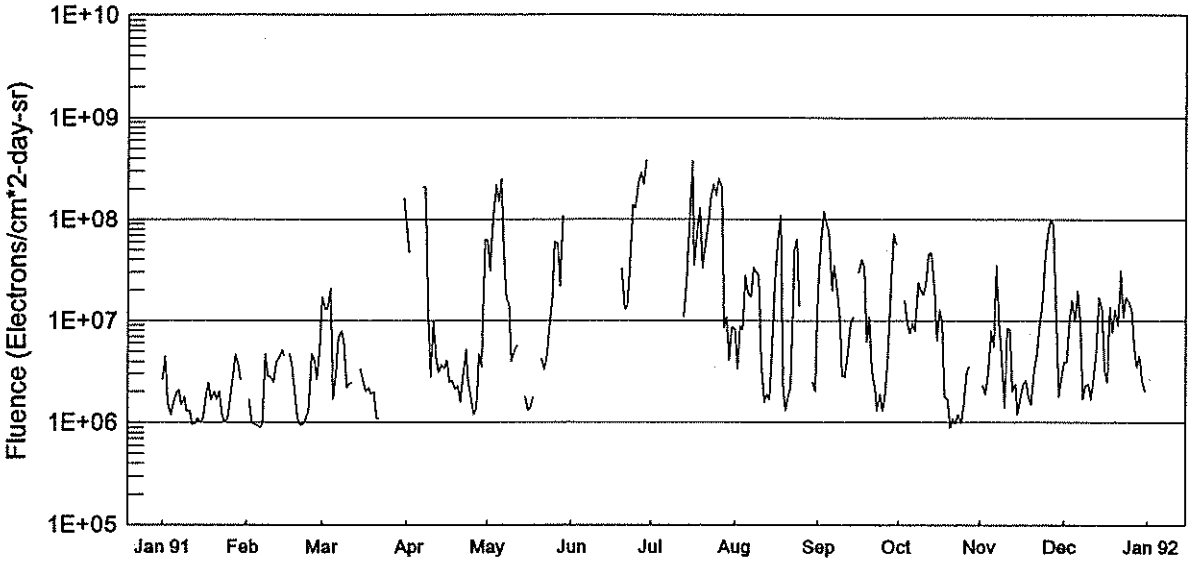
GOES7 Daily Electron Fluence - 1990



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.7E+07	6.8E+06	8.3E+07	1.2E+06	3.2E+06	6.3E+07	2.4E+06	-999	4.6E+06	2.8E+07	1.1E+07	3.1E+06
2	1.4E+07	3.0E+06	5.6E+07	1.4E+06	6.1E+06	1.2E+08	1.0E+06	-999	4.1E+06	2.4E+07	1.6E+07	4.7E+06
3	1.1E+07	8.9E+06	4.9E+07	1.3E+06	5.4E+06	1.6E+08	1.2E+06	-999	9.7E+06	7.6E+06	1.6E+07	2.0E+06
4	1.4E+07	5.3E+06	4.6E+07	2.4E+06	5.9E+06	5.9E+07	1.3E+06	2.9E+07	1.0E+07	4.0E+06	1.4E+07	9.2E+05
5	1.1E+07	8.5E+06	4.3E+06	2.3E+06	1.1E+07	3.8E+07	1.1E+06	3.7E+07	4.4E+06	1.4E+07	2.7E+07	3.4E+06
6	5.9E+06	5.0E+07	4.3E+06	3.2E+06	9.5E+06	3.9E+06	1.1E+06	1.6E+07	5.1E+06	1.6E+07	2.0E+07	4.0E+06
7	--	1.3E+07	4.7E+06	6.2E+06	1.4E+07	1.9E+06	1.1E+06	8.2E+06	3.6E+06	2.0E+07	4.6E+06	3.7E+06
8	5.2E+06	5.8E+06	5.4E+06	-999	1.3E+07	5.0E+06	1.7E+06	1.7E+07	1.0E+07	4.2E+07	1.4E+06	4.3E+06
9	1.4E+06	9.8E+06	8.3E+06	-999	3.3E+06	2.8E+06	8.1E+06	9.1E+06	1.5E+07	9.5E+06	1.1E+06	1.1E+06
10	1.1E+06	1.1E+07	1.0E+07	1.7E+06	2.2E+06	2.5E+06	8.4E+06	9.4E+06	8.4E+06	1.3E+06	1.9E+06	1.3E+06
11	1.7E+06	6.5E+06	7.5E+06	1.1E+07	1.2E+07	4.6E+06	5.1E+06	7.8E+06	1.5E+06	2.0E+07	6.9E+06	1.2E+06
12	9.3E+06	2.2E+06	3.2E+06	9.8E+06	--	-999	3.3E+06	2.4E+06	9.3E+06	1.6E+07	6.5E+06	1.3E+06
13	1.6E+07	4.4E+06	1.7E+06	--	3.4E+07	-999	3.4E+06	3.9E+06	1.1E+07	1.4E+08	9.5E+06	1.0E+06
14	1.6E+07	9.6E+05	2.6E+06	9.1E+07	2.1E+07	2.3E+06	3.0E+06	2.6E+06	2.1E+07	9.0E+07	8.3E+06	1.1E+06
15	1.0E+07	9.0E+05	7.4E+06	2.4E+08	2.6E+07	1.5E+06	2.2E+06	2.5E+06	3.0E+07	4.6E+07	7.9E+06	1.5E+06
16	6.2E+06	2.4E+06	4.7E+06	3.4E+08	2.9E+07	1.8E+06	7.2E+06	9.7E+06	3.1E+07	5.5E+07	1.3E+06	1.4E+06
17	2.3E+06	2.6E+07	6.6E+06	-999	9.4E+06	3.6E+06	3.7E+06	3.6E+07	3.3E+07	8.2E+07	3.0E+06	1.1E+06
18	1.3E+06	6.6E+07	2.7E+06	-999	4.2E+06	4.1E+06	2.1E+06	2.4E+07	1.5E+07	1.2E+08	1.1E+07	1.1E+06
19	1.5E+06	1.6E+07	-999	-999	5.9E+06	3.8E+06	1.2E+06	1.7E+07	4.7E+06	2.2E+07	5.3E+06	9.2E+05
20	1.8E+06	6.8E+07	-999	-999	9.6E+06	6.2E+06	1.8E+06	2.5E+07	8.4E+06	7.9E+06	6.5E+06	1.0E+06
21	2.6E+06	4.2E+07	-999	-999	1.5E+07	6.0E+06	7.7E+06	2.3E+07	1.2E+07	5.6E+06	3.4E+06	1.4E+06
22	1.7E+06	5.7E+07	3.7E+07	6.5E+06	-999	3.4E+06	1.1E+07	1.2E+07	1.8E+07	1.3E+07	--	1.3E+06
23	2.8E+06	2.2E+07	2.6E+08	3.0E+06	-999	1.7E+06	1.8E+07	1.1E+07	2.6E+07	1.9E+07	4.2E+06	2.2E+06
24	6.2E+06	2.8E+07	4.4E+08	2.5E+06	-999	1.8E+06	1.6E+07	1.4E+07	2.9E+07	2.8E+06	2.2E+06	1.7E+06
25	1.9E+07	1.7E+07	6.2E+07	9.8E+06	-999	2.1E+06	1.7E+07	2.4E+07	2.4E+07	3.7E+06	3.3E+06	2.5E+06
26	4.7E+07	4.3E+07	2.8E+07	2.1E+07	-999	1.2E+07	-999	8.0E+06	2.6E+07	6.3E+06	1.4E+06	1.9E+06
27	1.1E+08	2.5E+07	1.0E+08	1.1E+07	-999	1.6E+06	-999	1.3E+06	3.6E+07	3.1E+06	1.1E+06	1.5E+06
28	7.3E+07	5.3E+07	2.9E+08	-999	-999	1.6E+06	-999	1.3E+06	3.5E+07	3.1E+06	8.2E+05	1.5E+06
29	1.9E+06		2.7E+08	-999	-999	1.3E+06	5.8E+06	1.4E+06	3.2E+07	4.8E+06	1.3E+06	1.2E+06
30	2.7E+06		2.0E+07	1.6E+06	-999	1.7E+06	8.9E+06	1.4E+06	1.9E+07	2.1E+06	1.9E+06	9.2E+05
31	6.6E+06		1.1E+06		2.6E+07		1.8E+07	5.1E+06		5.9E+06		8.6E+05

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

GOES7 Daily Electron Fluence - 1991



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.7E+06	-999	1.7E+07	9.1E+07	6.2E+07	-999	-999	8.4E+06	2.0E+07	-999	2.3E+06	3.9E+06
2	4.5E+06	1.7E+06	1.3E+07	4.7E+07	3.1E+07	-999	-999	3.4E+06	6.7E+07	-999	1.9E+06	3.9E+06
3	1.6E+06	1.0E+06	1.3E+07	-999	1.0E+08	-999	-999	8.9E+06	1.2E+08	1.6E+07	2.8E+06	9.5E+06
4	1.2E+06	9.6E+05	2.1E+07	-999	2.2E+08	-999	-999	8.3E+06	9.0E+07	9.6E+06	8.1E+06	1.6E+07
5	1.6E+06	9.5E+05	1.7E+06	-999	1.5E+08	-999	-999	2.8E+07	7.6E+07	7.6E+06	5.5E+06	1.0E+07
6	1.9E+06	9.0E+05	2.9E+06	-999	2.5E+08	-999	-999	1.9E+07	2.0E+07	9.4E+06	3.5E+07	2.0E+07
7	2.1E+06	9.7E+05	6.8E+06	2.1E+08	4.9E+07	-999	--	1.7E+07	3.5E+07	8.1E+06	9.7E+06	1.0E+07
8	1.5E+06	4.8E+06	7.9E+06	2.1E+08	1.7E+07	-999	-999	3.4E+07	2.0E+07	2.4E+07	4.6E+06	1.7E+06
9	1.8E+06	2.9E+06	5.8E+06	1.1E+07	1.4E+07	-999	-999	3.0E+07	1.1E+07	2.0E+07	1.4E+06	2.3E+06
10	1.3E+06	2.8E+06	2.2E+06	2.8E+06	4.0E+06	-999	-999	2.8E+07	2.9E+06	1.8E+07	8.6E+06	2.4E+06
11	1.3E+06	2.5E+06	2.4E+06	1.0E+07	5.1E+06	-999	-999	3.9E+06	2.8E+06	2.4E+07	8.3E+06	1.7E+06
12	9.6E+05	4.0E+06	2.5E+06	4.5E+06	5.8E+06	-999	-999	1.6E+06	4.4E+06	4.6E+07	2.0E+06	2.8E+06
13	9.8E+05	4.3E+06	-999	3.1E+06	-999	-999	1.1E+07	1.9E+06	9.4E+06	4.7E+07	2.4E+06	4.9E+06
14	1.1E+06	5.2E+06	-999	3.7E+06	-999	-999	2.3E+07	1.7E+06	1.1E+07	2.1E+07	1.2E+06	1.7E+07
15	1.0E+06	4.5E+06	3.4E+06	3.4E+06	1.8E+06	-999	7.6E+07	5.9E+06	--	6.4E+06	1.8E+06	1.3E+07
16	1.1E+06	--	2.7E+06	4.1E+06	1.3E+06	-999	3.8E+08	2.4E+07	3.0E+07	1.3E+07	2.4E+06	3.3E+06
17	1.8E+06	4.8E+06	2.0E+06	2.5E+06	1.4E+06	-999	3.5E+07	7.1E+07	4.0E+07	9.9E+06	2.6E+06	2.5E+06
18	2.5E+06	3.4E+06	2.2E+06	2.6E+06	1.8E+06	-999	8.0E+07	1.1E+08	3.4E+07	1.8E+06	1.8E+06	1.4E+07
19	1.7E+06	1.9E+06	1.9E+06	2.1E+06	-999	-999	1.3E+08	2.3E+06	6.1E+06	1.7E+06	1.5E+06	7.8E+06
20	2.0E+06	1.1E+06	2.0E+06	2.3E+06	-999	3.3E+07	3.3E+07	1.3E+06	1.1E+07	9.0E+05	3.4E+06	1.3E+07
21	1.7E+06	9.5E+05	1.1E+06	1.6E+06	4.3E+06	1.3E+07	5.3E+07	1.8E+06	3.3E+06	1.1E+06	4.7E+06	9.0E+06
22	2.0E+06	9.6E+05	1.1E+06	2.8E+06	3.3E+06	1.4E+07	9.3E+07	2.3E+06	2.2E+06	9.8E+05	9.3E+06	3.2E+07
23	1.2E+06	1.1E+06	-999	5.2E+06	4.2E+06	3.7E+07	1.7E+08	4.9E+07	1.3E+06	1.2E+06	1.4E+07	1.1E+07
24	1.0E+06	1.3E+06	-999	2.5E+06	8.2E+06	1.4E+08	2.2E+08	6.5E+07	1.9E+06	9.9E+05	4.6E+07	1.7E+07
25	1.1E+06	4.7E+06	-999	1.7E+06	1.7E+07	1.3E+08	1.7E+08	1.4E+07	1.3E+06	1.5E+06	7.5E+07	1.6E+07
26	1.8E+06	4.2E+06	-999	1.2E+06	6.0E+07	2.4E+08	2.5E+08	-999	1.9E+06	3.1E+06	9.9E+07	1.3E+07
27	2.8E+06	2.7E+06	-999	1.4E+06	5.8E+07	2.9E+08	2.1E+08	-999	4.4E+06	3.6E+06	8.7E+07	5.5E+06
28	4.7E+06	5.0E+06	-999	4.7E+06	2.2E+07	2.2E+08	8.7E+06	-999	2.6E+07	-999	1.5E+07	3.5E+06
29	3.8E+06		-999	3.5E+06	1.1E+08	3.9E+08	1.1E+07	-999	7.3E+07	3.1E+06	1.8E+06	4.6E+06
30	2.6E+06		-999	6.4E+07	--	-999	4.1E+06	2.5E+06	5.7E+07	-999	2.5E+06	2.7E+06
31	-999		1.6E+08		-999		8.7E+06	2.0E+06		-999		2.0E+06

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

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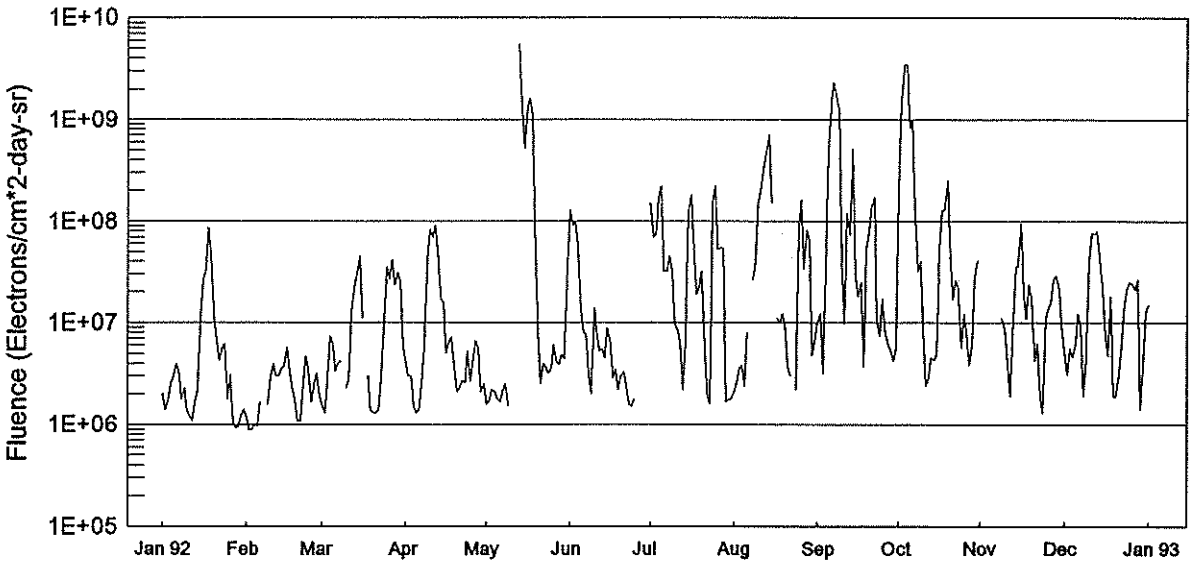
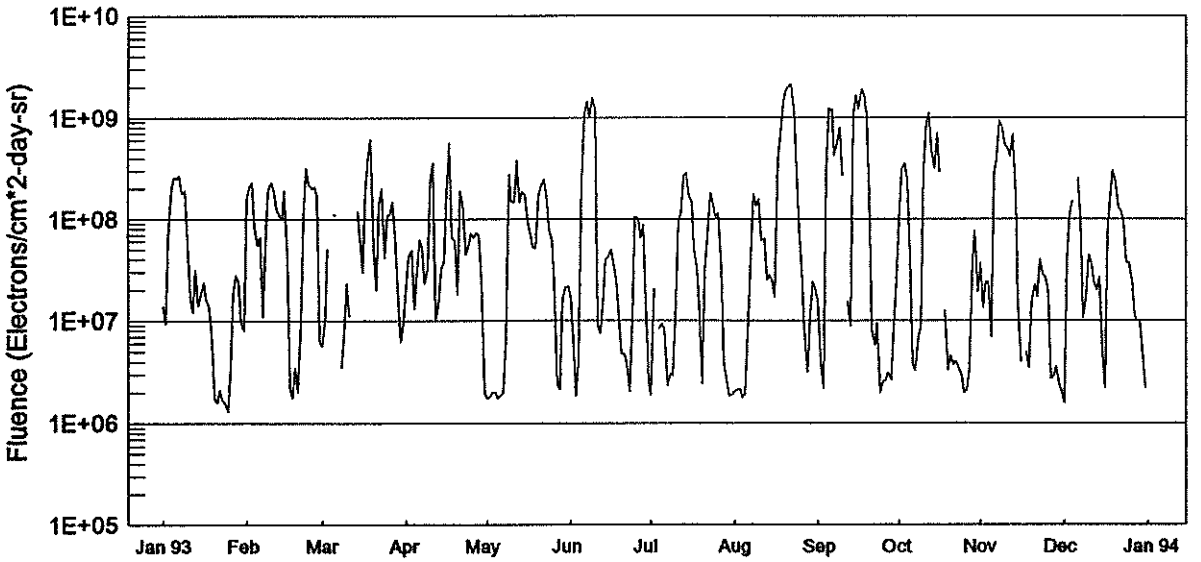


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.0E+06	1.2E+06	1.3E+06	3.0E+06	1.7E+06	9.0E+07	7.0E+07	2.6E+06	1.2E+07	1.5E+09	-999	3.1E+06
2	1.4E+06	8.8E+05	2.4E+06	3.0E+06	2.2E+06	9.8E+07	7.6E+07	3.6E+06	3.2E+06	3.5E+09	-999	5.5E+06
3	1.7E+06	8.9E+05	7.3E+06	1.5E+06	2.1E+06	5.7E+07	1.7E+08	3.8E+06	3.1E+07	3.4E+09	-999	4.6E+06
4	2.6E+06	1.0E+06	6.2E+06	1.3E+06	1.8E+06	1.3E+07	2.2E+08	2.4E+06	4.7E+08	8.2E+08	-999	6.0E+06
5	3.0E+06	9.8E+05	3.4E+06	1.4E+06	1.7E+06	8.0E+06	3.2E+07	8.0E+06	1.6E+09	1.0E+09	-999	1.2E+07
6	3.9E+06	1.7E+06	4.0E+06	2.5E+06	2.1E+06	7.6E+06	3.2E+07	-999	2.3E+09	1.4E+08	-999	9.2E+06
7	3.4E+06	-999	4.3E+06	5.5E+06	2.5E+06	3.2E+06	4.5E+07	2.7E+07	1.6E+09	3.2E+07	1.1E+07	1.9E+06
8	1.8E+06	-999	--	4.3E+07	1.5E+06	2.0E+06	3.2E+07	3.8E+07	1.2E+09	4.0E+07	8.7E+06	4.1E+06
9	2.3E+06	1.6E+06	2.3E+06	8.3E+07	-999	1.4E+07	1.0E+07	1.5E+08	3.9E+07	8.3E+06	3.9E+06	4.1E+07
10	1.4E+06	3.1E+06	2.8E+06	7.0E+07	-999	7.4E+06	8.3E+06	2.0E+08	9.9E+06	2.4E+06	1.9E+06	7.6E+07
11	1.2E+06	3.9E+06	1.3E+07	9.2E+07	-999	5.3E+06	6.1E+06	3.5E+08	1.2E+08	2.8E+06	7.9E+06	7.5E+07
12	1.1E+06	3.0E+06	2.4E+07	5.1E+07	5.5E+09	5.5E+06	2.2E+06	4.8E+08	7.4E+07	4.5E+06	3.5E+07	7.9E+07
13	1.7E+06	3.0E+06	3.1E+07	1.7E+07	1.5E+09	4.6E+06	6.2E+06	7.0E+08	5.1E+08	4.3E+06	3.5E+07	4.4E+07
14	2.1E+06	3.6E+06	4.5E+07	1.6E+07	5.2E+08	8.9E+06	1.2E+08	1.5E+08	3.0E+07	5.0E+06	9.6E+07	2.0E+07
15	1.2E+07	3.7E+06	1.1E+07	5.1E+06	1.3E+09	6.3E+06	1.8E+08	--	1.8E+07	5.4E+07	2.0E+07	7.5E+06
16	2.7E+07	5.7E+06	-999	6.3E+06	1.6E+09	2.9E+06	6.9E+07	1.1E+07	2.5E+07	1.3E+08	1.1E+07	4.7E+06
17	3.2E+07	3.5E+06	3.0E+06	7.2E+06	1.1E+09	3.5E+06	1.9E+07	1.0E+07	3.7E+06	1.3E+08	2.4E+07	1.8E+07
18	8.6E+07	2.3E+06	1.4E+06	3.6E+06	8.7E+07	2.2E+06	2.2E+07	1.2E+07	5.3E+07	2.5E+08	1.7E+07	1.9E+06
19	4.6E+07	1.8E+06	1.3E+06	2.1E+06	7.8E+06	3.0E+06	3.2E+07	9.3E+06	7.7E+07	4.6E+07	4.2E+06	1.9E+06
20	1.1E+07	1.1E+06	1.3E+06	2.3E+06	2.5E+06	3.3E+06	8.0E+06	3.8E+06	1.4E+08	1.7E+07	6.2E+06	3.1E+06
21	6.7E+06	1.1E+06	1.4E+06	2.7E+06	4.0E+06	2.3E+06	1.9E+06	3.0E+06	1.7E+08	2.6E+07	1.9E+06	5.8E+06
22	4.3E+06	2.5E+06	2.8E+06	2.6E+06	3.7E+06	1.6E+06	1.6E+06	--	1.1E+07	2.2E+07	1.3E+06	1.4E+07
23	5.6E+06	4.7E+06	1.1E+07	5.2E+06	3.2E+06	1.5E+06	1.5E+08	2.2E+06	7.4E+06	5.7E+06	1.1E+07	2.1E+07
24	6.2E+06	3.5E+06	3.5E+07	2.7E+06	3.6E+06	1.8E+06	2.2E+08	7.7E+07	1.7E+07	1.2E+07	1.4E+07	2.5E+07
25	1.8E+06	1.7E+06	2.7E+07	4.4E+06	6.0E+06	-999	5.3E+07	1.6E+08	8.2E+06	7.6E+06	1.6E+07	2.4E+07
26	3.1E+06	2.5E+06	4.1E+07	6.6E+06	4.1E+06	-999	5.4E+07	3.4E+07	6.4E+06	3.8E+06	2.7E+07	2.1E+07
27	1.1E+06	3.2E+06	2.4E+07	5.6E+06	3.9E+06	-999	5.3E+07	8.1E+07	5.2E+06	6.6E+06	2.9E+07	2.7E+07
28	9.4E+05	2.0E+06	3.1E+07	2.1E+06	4.9E+06	-999	1.7E+06	6.4E+07	4.2E+06	2.7E+07	2.1E+07	1.4E+06
29	9.5E+05	1.6E+06	2.5E+07	2.5E+06	4.4E+06	-999	1.8E+06	4.8E+06	5.5E+06	4.1E+07	1.0E+07	3.5E+06
30	1.2E+06		6.0E+06	1.6E+06	3.8E+07	1.5E+08	1.8E+06	6.5E+06	1.8E+08	-999	4.9E+06	1.3E+07
31	1.4E+06		4.2E+06		1.3E+08		2.1E+06	1.0E+07		-999		1.5E+07

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

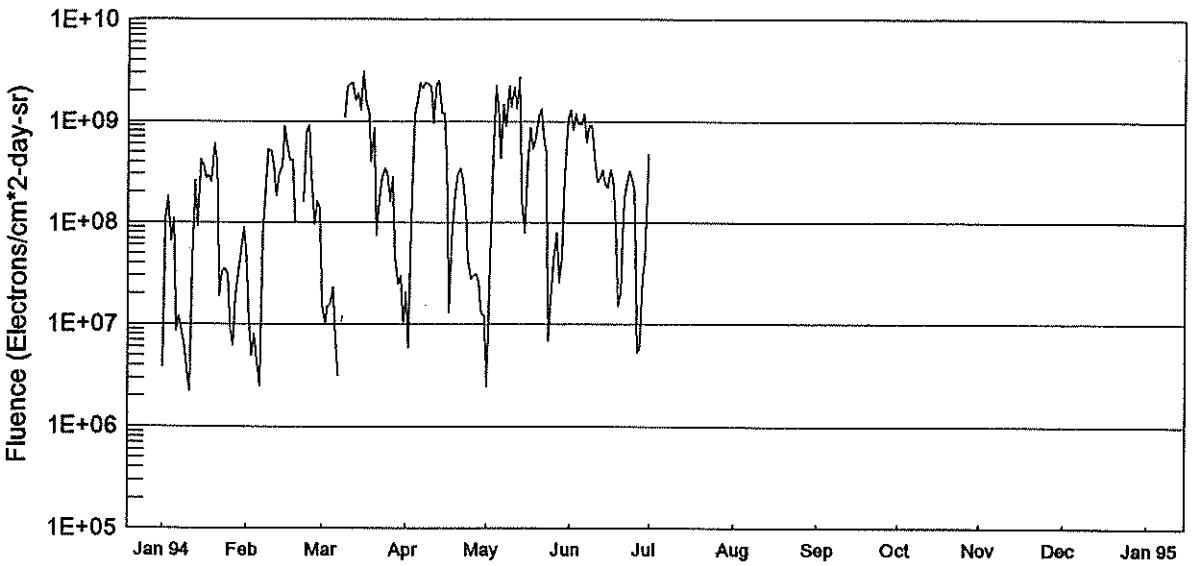
GOES7 Daily Electron Fluence - 1993



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.4E+07	1.6E+08	5.7E+06	2.1E+07	1.8E+06	1.7E+07	1.9E+06	2.1E+06	1.6E+07	9.6E+07	1.3E+07	1.6E+06
2	9.5E+06	2.1E+08	1.1E+07	4.3E+07	1.8E+06	6.5E+06	2.1E+07	2.1E+06	3.6E+06	3.1E+08	2.4E+07	4.1E+07
3	6.6E+07	2.3E+08	5.1E+07	4.9E+07	2.0E+06	1.9E+06	--	2.2E+06	2.2E+06	3.6E+08	2.4E+07	1.1E+08
4	2.0E+08	8.5E+07	-999	1.3E+07	2.0E+06	4.0E+06	8.5E+06	1.8E+06	3.0E+08	2.4E+08	6.9E+06	1.5E+08
5	2.6E+08	5.5E+07	1.1E+08	3.1E+07	1.8E+06	2.4E+08	9.3E+06	1.9E+06	1.2E+09	4.4E+07	2.7E+08	--
6	2.5E+08	6.6E+07	1.1E+08	6.2E+07	1.9E+06	1.1E+09	8.1E+06	7.4E+06	1.2E+09	3.8E+06	3.9E+08	2.5E+08
7	2.7E+08	1.1E+07	-999	5.2E+07	2.0E+06	1.4E+09	2.3E+06	4.3E+07	4.3E+08	3.3E+06	9.3E+08	1.0E+08
8	1.8E+08	5.4E+07	3.5E+06	2.3E+07	6.4E+06	1.0E+09	3.1E+06	1.8E+08	5.8E+08	6.7E+06	8.2E+08	1.1E+07
9	1.9E+08	1.9E+08	7.2E+06	3.3E+07	2.8E+08	1.6E+09	2.9E+06	1.4E+08	8.1E+08	8.9E+06	5.3E+08	1.6E+07
10	8.2E+07	2.3E+08	2.3E+07	2.5E+08	1.5E+08	1.2E+09	1.0E+07	1.6E+08	2.7E+08	3.2E+08	5.0E+08	4.5E+07
11	1.7E+07	1.9E+08	1.1E+07	3.6E+08	1.5E+08	9.2E+06	9.4E+07	6.1E+07	--	8.7E+08	4.2E+08	3.6E+07
12	1.2E+07	1.3E+08	-999	1.0E+07	3.8E+08	7.4E+06	1.1E+08	6.4E+07	1.6E+07	1.1E+09	6.9E+08	2.3E+07
13	3.2E+07	1.1E+08	-999	1.4E+07	1.5E+08	1.4E+07	2.7E+08	2.5E+07	8.9E+06	4.8E+08	1.7E+08	2.0E+07
14	1.4E+07	1.0E+08	1.2E+08	3.3E+07	1.9E+08	4.0E+07	2.9E+08	2.8E+07	1.1E+09	3.2E+08	1.5E+07	2.7E+07
15	1.9E+07	1.9E+08	6.3E+07	3.8E+07	1.7E+08	4.2E+07	1.7E+08	2.5E+07	1.6E+09	7.1E+08	3.9E+06	4.8E+06
16	2.4E+07	4.5E+07	3.0E+07	1.8E+08	9.5E+07	5.0E+07	1.5E+08	1.7E+07	1.2E+09	2.9E+08	--	2.2E+06
17	1.6E+07	2.2E+06	1.9E+08	5.7E+08	7.2E+07	3.5E+07	5.1E+07	3.9E+08	1.9E+09	--	5.0E+06	7.5E+07
18	1.4E+07	1.8E+06	4.7E+08	6.7E+07	5.2E+07	2.5E+07	3.2E+07	6.9E+08	1.7E+09	1.3E+07	3.5E+06	1.6E+08
19	7.9E+06	3.5E+06	6.2E+08	6.0E+07	5.1E+07	1.1E+07	1.1E+07	1.4E+09	1.0E+09	3.3E+06	1.5E+07	3.0E+08
20	1.8E+06	2.0E+06	5.0E+07	1.8E+07	1.8E+08	4.7E+06	2.4E+06	1.9E+09	1.7E+08	4.6E+06	2.3E+07	2.4E+08
21	1.6E+06	9.5E+06	2.0E+07	1.9E+08	2.2E+08	4.7E+06	3.1E+07	2.0E+09	7.9E+06	3.8E+06	1.7E+07	1.3E+08
22	2.1E+06	1.0E+08	1.4E+08	1.4E+08	2.5E+08	3.6E+06	8.1E+07	2.1E+09	5.7E+06	4.0E+06	4.0E+07	1.2E+08
23	1.7E+06	3.2E+08	2.0E+08	4.5E+07	1.7E+08	2.0E+06	1.8E+08	1.2E+09	9.4E+06	3.5E+06	2.9E+07	9.3E+07
24	1.6E+06	2.2E+08	4.2E+07	5.1E+07	8.1E+07	1.0E+07	1.4E+08	3.1E+08	2.0E+06	3.0E+06	2.6E+07	3.8E+07
25	1.3E+06	2.0E+08	1.1E+08	7.3E+07	6.0E+07	1.1E+08	1.0E+08	8.0E+07	2.5E+06	2.0E+06	1.8E+07	3.8E+07
26	3.5E+06	2.1E+08	1.1E+08	6.6E+07	2.4E+07	1.0E+08	1.2E+08	3.2E+07	2.6E+06	2.1E+06	2.7E+06	2.5E+07
27	1.9E+07	1.7E+08	1.5E+08	7.4E+07	2.4E+06	6.5E+07	3.3E+07	8.2E+06	3.2E+06	3.3E+06	2.9E+06	1.1E+07
28	2.8E+07	6.1E+06	6.8E+07	7.0E+07	2.1E+06	8.9E+07	3.9E+06	3.2E+06	2.7E+06	4.0E+07	3.6E+06	9.9E+06
29	2.5E+07		1.6E+07	2.6E+07	1.6E+07	1.5E+07	2.7E+06	1.1E+07	8.9E+06	7.7E+07	2.3E+06	1.0E+07
30	9.7E+06		6.2E+06	2.0E+06	2.1E+07	2.4E+06	1.9E+06	2.4E+07	2.5E+07	1.9E+07	2.1E+06	5.3E+06
31	8.0E+06		9.4E+06		2.1E+07		1.9E+06	2.0E+07		3.7E+07		2.2E+06

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

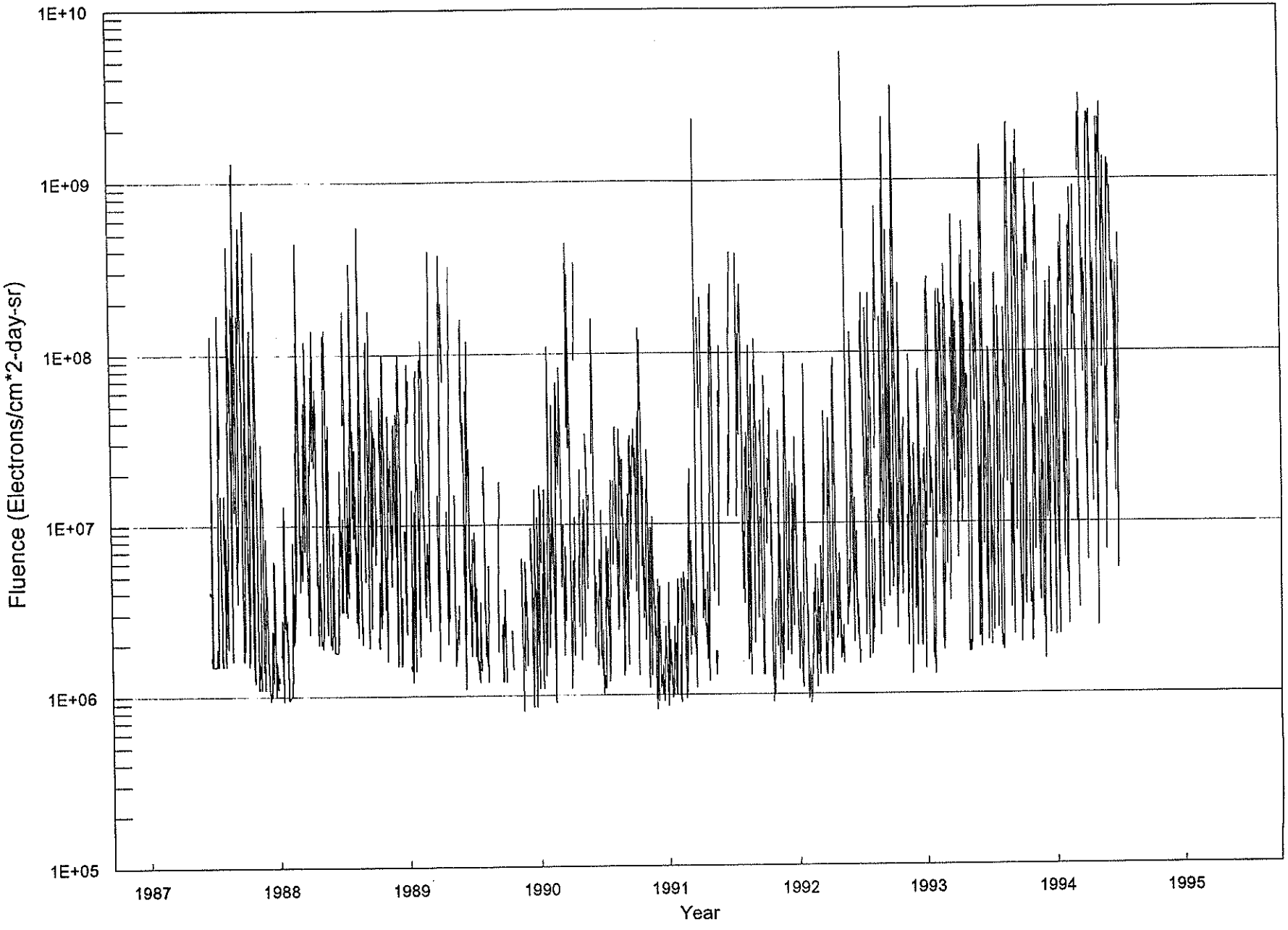
GOES7 Daily Electron Fluence - 1994



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.8E+06	4.5E+07	1.6E+07	2.1E+07	2.5E+06	1.3E+09						
2	1.1E+08	1.1E+07	9.9E+06	5.9E+06	2.3E+07	8.1E+08						
3	1.8E+08	5.0E+06	1.5E+07	1.9E+08	2.5E+08	1.2E+09						
4	6.6E+07	8.1E+06	1.6E+07	1.2E+09	2.2E+09	9.6E+08						
5	1.1E+08	4.1E+06	2.3E+07	1.6E+09	1.4E+09	9.3E+08						
6	8.5E+06	2.5E+06	7.5E+06	2.4E+09	4.3E+08	1.2E+09						
7	1.2E+07	7.7E+07	3.1E+06	2.1E+09	1.5E+09	6.2E+08						
8	9.2E+06	1.9E+08	--	2.4E+09	8.8E+08	9.0E+08						
9	6.0E+06	5.3E+08	1.1E+09	2.3E+09	2.2E+09	9.0E+08						
10	4.1E+06	5.1E+08	2.2E+09	2.2E+09	1.4E+09	4.2E+08						
11	2.2E+06	3.5E+08	2.3E+09	9.6E+08	2.2E+09	2.5E+08						
12	4.3E+07	1.8E+08	2.4E+09	2.3E+09	1.3E+09	2.7E+08						
13	2.6E+08	3.0E+08	1.6E+09	2.5E+09	2.7E+09	3.3E+08						
14	9.1E+07	3.6E+08	1.9E+09	1.2E+09	1.6E+08	2.4E+08						
15	4.2E+08	8.8E+08	1.3E+09	1.2E+09	8.0E+07	2.2E+08						
16	3.7E+08	5.4E+08	3.1E+09	3.6E+08	3.9E+08	3.3E+08						
17	2.7E+08	4.1E+08	1.6E+09	1.3E+07	8.6E+08	2.5E+08						
18	2.9E+08	4.2E+08	1.2E+09	6.8E+07	5.3E+08	9.1E+07						
19	2.5E+08	1.0E+08	4.0E+08	1.9E+08	6.7E+08	1.5E+07						
20	6.1E+08	-999	8.6E+08	3.0E+08	1.1E+09	2.0E+07						
21	3.9E+08	-999	7.5E+07	3.4E+08	1.3E+09	1.7E+08						
22	1.9E+07	1.6E+08	1.6E+08	2.7E+08	6.8E+08	2.4E+08						
23	3.3E+07	7.9E+08	2.7E+08	1.3E+08	4.9E+08	3.2E+08						
24	3.5E+07	9.1E+08	3.4E+08	4.4E+07	6.8E+06	2.7E+08						
25	3.1E+07	2.2E+08	2.9E+08	2.8E+07	2.3E+07	2.1E+08						
26	9.3E+06	9.6E+07	1.6E+08	3.0E+07	4.3E+07	5.3E+06						
27	6.2E+06	1.6E+08	2.8E+08	3.1E+07	8.0E+07	5.8E+06						
28	1.9E+07	1.4E+08	4.4E+07	2.7E+07	2.5E+07	2.8E+07						
29	3.1E+07		2.5E+07	1.3E+07	4.4E+07	4.3E+07						
30	4.9E+07		3.0E+07	1.2E+07	2.9E+08	4.8E+08						
31	9.0E+07		--		1.1E+09							

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.

GOES7 Daily Electron Fluence 1987 - 1994



NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are not plotted.

DESCRIPTION OF THE UARS/ACRIM II TOTAL SOLAR IRRADIANCE MEASUREMENTS OCTOBER 1991 THROUGH DECEMBER 1992

by
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The second Active Cavity Radiometer Irradiance Monitor (ACRIM) satellite solar monitoring experiment (ACRIM II) has been providing total solar irradiance observations since its launch as part of the Upper Atmospheric Research Satellite (UARS) in late 1991. The UARS is a three-axis stabilized, Earth-oriented spacecraft with an orbit at inclination of 57 degrees and altitude 585 km. The UARS orbit provides about 60 minutes of sunlight in each orbit of which about 35 minutes are available for solar viewing. During this period the Solar/Stellar Pointing Platform points the instrument to the center of the Sun (Reber, 1990).

The UARS/ACRIM II instrument consists of three Active Cavity Radiometers (ACR's) (Type V). The ACR's are electrically self-calibrated pyrheliometers, which are uniformly sensitive from the extreme UV to the far infrared. The principle of measuring total solar irradiance is that the heating effect of irradiant flux on a detector is compared with that of electrical power dissipated in a heating element in intimate thermal contact with the detector. An accurate knowledge of the effective absorptance of the detector for the irradiant flux, the area over which the detector is illuminated and the electrical heating power facilitates the accurate measurement of irradiant fluxes on an absolute basis in the International System of Units. The total solar irradiance data, expressed in Watt per square meter at the instrument, are calculated based on the equation:

$$Hsol = K(Pref-Pobs)+E$$

where Hsol is the calculated irradiance, Pref and Pobs are the cavity electrical heating powers during the reference and observational phase of the measurements. K is the standard detector constant of proportionality which contains instrument parameters, such as the area of the primary aperture, effective cavity absorptance for solar irradiance, cavity reflectance for solar irradiance, and reflectance of solar radiation by the cavity field of view. E summarizes small terms due to small departures from instrument equilibrium.

Nominal observations are comprised of multiple cycles of an open-shutter/closed-shutter 131 seconds cycle. The observational sequence is symmetrical to minimize systematic error. Settling time for the ACRs is less than 30 seconds. The first half of each 65.536 seconds shutter open cycle is disregarded in the computation of the

shutter-cycle irradiance result. A single shutter cycle solar observation uses the average value of the electrical self-calibration during adjacent shutter closed periods to provide an average electrical self-calibration reference. Further details for the instrument operation are given by Willson (1979, 1984).

Corrections for temperature dependence, solar viewing angle, Sun-satellite distance and relative velocity, and sensor degradation are applied to the calculated Hsol values to obtain the total solar irradiance data reduced to the mean Sun-Earth distance. The ACRIM's Sun position sensor signals and instrument temperature data are used to correct solar pointing errors and temperature dependencies. Astronomical ephemeris data supplied by JPL's Navigation System section are used to reduce the irradiance data to the mean Sun-Earth distance. These corrections include (1) the annual Sun-Earth distance variation, (2) the orbital Sun-satellite distance variation, and (3) the relativistic effect of the Earth's and satellite's orbital velocities relative to the Sun. Corrections for sensor degradation are made by the inflight intercomparison of Channels A, B and C. In case of ACRIM II, Channel B is the primary solar detector, while A is operated once a month, and C is operated once in every second month. These corrections have been applied to each shutter cycle irradiance results. The daily averages of the ACRIM II total solar irradiance are calculated from about 240 daily shutter irradiance values. The uncertainty of the daily average ACRIM II total irradiance values is about 5 ppm.

The ACRIM II irradiance values have been adjusted to the level of the ACRIM I data obtained from the Solar Maximum Mission satellite to provide for continuity of the long-term database. Since the UARS/ACRIM II experiment was launched nearly two years after the demise of the Solar Maximum Mission satellite and the ACRIM I experiment, their results have been related to each other by their mutual intercomparisons with overlapping Nimbus-7/ERB observations. The scale factor (1.002069) has been calculated from the ratios of Nimbus-7/ERB to ACRIM I and Nimbus-7/ERB to ACRIM II (Willson 1994). The ACRIM II irradiance values then can be reported on the ACRIM I scale, after multiplying the ACRIM II data by the factor. The uncertainty introduced by the scale factor is less than 20 ppm.

This file contains the daily average UARS/ACRIM II total solar irradiance in units of W/m2. A diskette of the data is available from NGDC. The data are also available on-line at ftp anonymous at simdac (ftp 128.149.98.5) in the pub directory. They are also available on the NGDC on-line ftp anonymous (ftp 192.149.148.109). If these data are used in publication please acknowledge as follows: UARS/ACRIM II total solar irradiance used here are produced at the Solar Irradiance Monitoring Group of the Jet Propulsion Laboratory, California Institute of Technology under a contract with the National Aeronautics and Space Administration.

References:

Reber, C.: 1990, EOS Trans. AGU 71, 1867.
Willson, R.C.: 1979, Applied Opt. 19, 3256.
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Willson, R.C.:1994, In "The Sun as a Variable Star: Solar and Stellar Irradiance Variations" (eds. Pap, J.M., Frohlich, C., Hudson, H.S, Solanki, S.K.), Cambridge Univ. Press, in press.

1991 DAILY MEAN SOLAR IRRADIANCE
UARS (ACRIM-II)

Jet Propulsion Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1											1364.26	1365.57
2											1364.77	1365.53
3											1364.48	1365.67
4											1366.08	1365.61
5										1364.44	1365.95	1365.63
6										1364.67	1365.68	1365.51
7										1365.19	1365.54	1365.44
8										1365.78	1365.68	1365.29
9										1365.83	1365.74	1365.23
10										1366.23	1365.45	1364.71
11										1366.21	1365.78	1364.50
12										1366.26	1365.57	1364.68
13										1366.00	1365.19	1364.89
14										1365.94	1365.31	1364.93
15										1365.88	1365.45	1364.80
16										1365.79	1365.67	1364.82
17										1365.95	1365.72	1365.26
18										1366.13	1365.78	1365.64
19										1366.33	1365.94	1366.01
20										1366.44	1365.95	1366.13
21										1366.29	1366.01	1365.64
22										1366.21	1365.94	1365.78
23										1366.08	1365.90	1365.34
24										1365.70	1365.81	1365.23
25										1365.01	1365.77	1365.04
												1364.96
26										1364.28	1365.77	
27										1363.40	1365.63	1364.57
28										1363.24	1365.64	1364.20
29										1363.10	1365.63	1364.26
30										1363.29	1365.59	1364.36
31										1363.66		1365.17

1992 DAILY MEAN SOLAR IRRADIANCE
UARS (ACRIM-II)

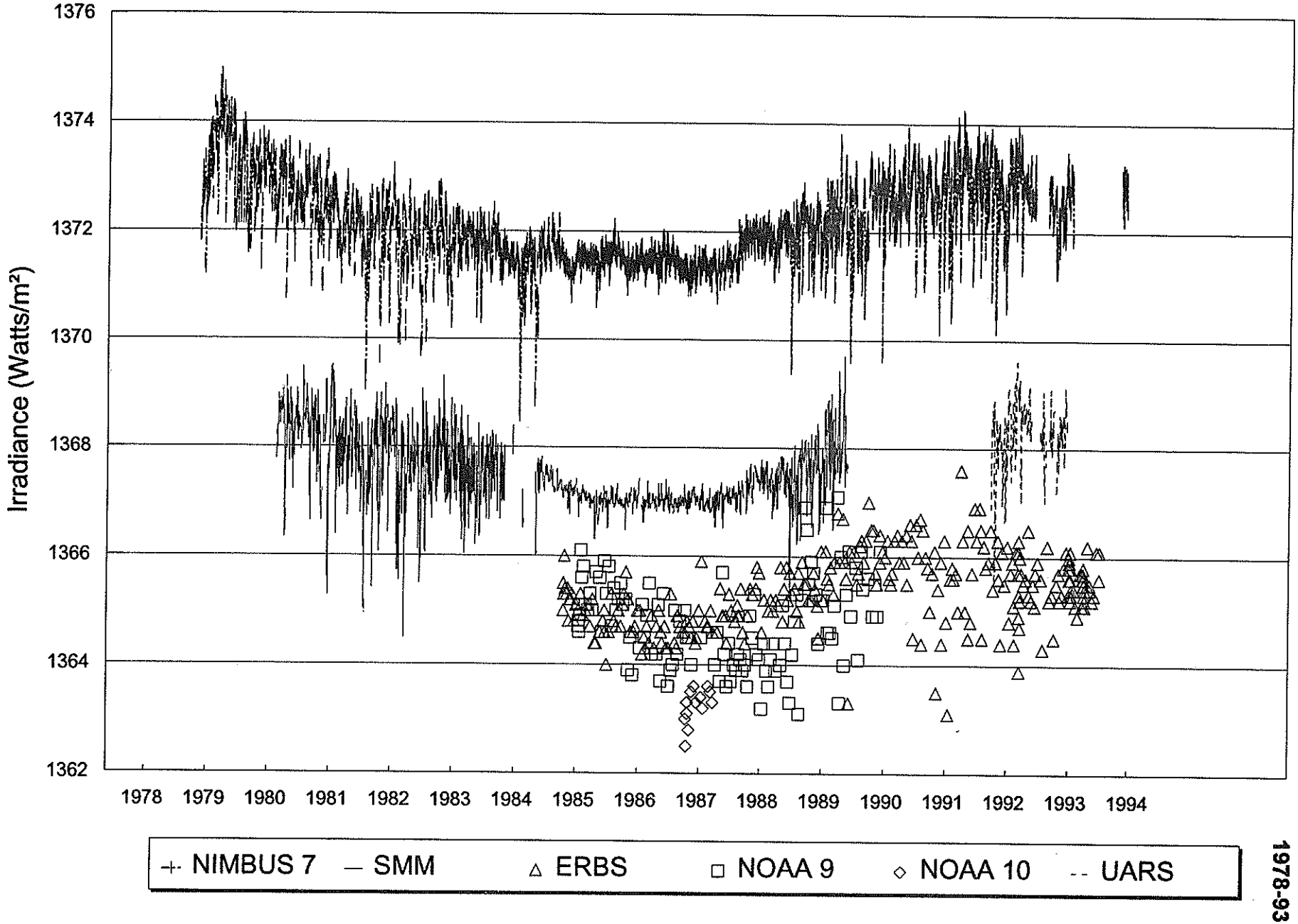
Jet Propulsion Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1365.65	1364.92	1366.43	1364.99	1365.97	1365.98		1365.52		1365.49	1365.54	1365.58
2	1365.94		1366.89	1365.29	1365.84	1365.98		1365.64		1365.62	1365.71	1365.67
3	1366.04		1367.14	1366.09	1365.83			1365.66		1365.79	1365.85	1365.94
4	1365.70	1365.37	1367.15	1366.26	1365.98			1365.70		1365.88	1365.85	1366.01
5		1365.69	1366.97	1366.13	1365.99			1365.81		1365.96	1365.68	1366.15
6	1365.16	1365.88	1366.95	1366.01	1365.96			1365.95		1365.85	1365.64	1365.98
7	1365.00	1366.01	1366.82	1366.02	1365.90			1365.84		1365.77	1365.57	1365.96
8	1365.03	1366.24		1366.08	1365.93			1365.64		1365.83	1365.41	1365.95
9	1365.34	1366.40	1366.68	1366.10	1365.87			1365.77		1365.97	1365.28	1366.11
10	1365.68	1366.32	1366.53	1366.21	1365.88			1365.95		1366.16	1365.12	1366.06
11	1365.99	1365.84	1366.48	1366.35	1366.00			1366.60		1366.23	1365.13	1365.67
12	1366.31	1365.62	1366.55	1366.34	1366.20			1366.17		1366.26	1365.41	1365.39
13	1366.59	1365.61	1366.65	1366.37	1366.39			1366.13		1366.24	1365.63	1365.23
14	1366.66	1365.71	1366.54	1366.31	1366.55			1366.07			1365.74	1365.39
15	1366.33	1365.73	1366.38	1366.27	1366.52			1365.63	1365.90		1365.80	1365.73
16	1366.31	1365.72	1366.26	1366.32	1366.50			1365.46	1365.89		1365.97	1366.23
17	1366.26	1365.89	1366.40	1366.39	1366.58			1365.21	1365.70		1366.13	1366.67
18	1366.26	1366.14	1366.54	1366.19	1366.67			1364.96	1365.78		1366.17	1366.65
19	1366.32	1366.34	1366.66	1366.02	1366.68			1364.80	1365.88		1366.06	1366.51
20	1366.40	1366.68	1366.82	1366.18	1366.44			1364.54	1365.95		1365.99	1366.46
21	1366.39	1366.80	1366.82	1366.15	1366.16			1364.57	1365.86		1365.92	1366.41
22	1366.42	1366.57	1366.79	1366.21	1365.90			1365.01	1365.59		1365.78	1366.44
23	1366.43	1366.14	1366.65	1366.04	1365.73		1365.84	1365.45	1366.65		1365.75	1366.35
24		1365.78	1366.68	1366.06	1365.71		1365.85	1365.71	1365.90		1365.72	1366.39
25	1366.20	1365.47	1366.55	1366.11	1365.79		1365.75		1365.78		1365.88	1366.38
26	1366.21	1365.13	1366.34	1366.16	1365.91		1365.70		1365.73		1365.96	1366.27
27	1366.02		1366.02	1366.17	1365.92		1365.75		1365.88	1364.74	1366.02	1366.04
28	1365.61	1365.45	1365.59	1366.19	1366.05		1365.74		1365.60	1364.74	1365.90	1365.91
29	1365.33	1365.86	1365.13	1366.32	1366.07		1365.57		1365.41	1364.78	1365.72	1365.88
30	1365.23		1364.57	1366.21	1366.05		1365.58		1365.42	1364.95	1365.66	1366.04
31	1364.97		1364.66		1366.05		1365.54			1365.24		1366.03

Total Solar Irradiance

Satellites: Nimbus 7, SMM, ERBS, NOAA 9, NOAA 10, UARS



65
Misc
1978-93

66
Misc
1978-93

NIMBUS-7 SOLAR TOTAL IRRADIANCE
Final Values
16 Nov 1978-13 Dec 1993

The final Nimbus-7 solar total irradiance values for 16 November 1978-13 December 1993 are given here. There will be no more total solar irradiance measurements made by Nimbus-7. Values are in watts per square meter. In contrast to previous data releases, data for missing days are not filled, but rather omitted. Also, starting in 1990 a daily cycle appeared in the solar irradiances from unknown causes. This problem is corrected by excluding measurements from 1 to 6 hours UT in calculating the daily means from 1/1/90 to the end of the experiment.

The paper "The Nimbus-7 Solar Total Irradiance: A New Algorithm for its Derivation" by D.V. Hoyt, H.L. Kyle J.R. Hickey, and R.H. Maschhoff (**JGR, Vol. 97**, pp. 51-63) describes the methodology used to derive the values.

In 1992, there are two data gaps: a) The days 15 to 24 are missing due to instrumental problems, and b) the days 170 through 246 are missing since the instrument could not acquire the Sun. In 1993 most of the days are missing since the Sun could not be acquired. Finally, daily averages formed with 3 or fewer observations should be considered less reliable than other days. Users may want to omit them or replace them with interpolated values. The complete data set (number of orbits for which good observations are available on a given day, daily mean solar irradiance, and standard deviation of the mean solar irradiance) is available on-line at NGDC ftp anonymous (ftp 192.149.148.109) or try our Mosaic page (www.ngdc.noaa.gov). See the previous page (page 65) for a plot of the data.

For more information about the data or to obtain the comprehensive database (all data points taken), please contact Dr. H. Lee Kyle, NASA/GSFC, Code 636, Greenbelt, MD 20771 USA, (301)286-9415

1978 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
2												1372.58
3												1372.66
4												1372.66
5												
6												1372.82
7												1373.37
8												1373.32
9												
10												1371.44
11												1371.40
12												1371.38
13												
14												1371.29
15												1372.37
16											1372.29	1372.82
17											1371.90	1372.22
18											1371.92	1372.33
19												1372.84
20											1372.59	1373.00
21											1372.72	
22											1372.72	1372.43
23											1372.22	1373.12
24											1372.55	1373.35
25											1373.01	
26											1373.17	1373.20
27												1373.61
28											1372.57	1373.62
29											1372.88	
30											1373.01	1372.62
31												1372.90

1979 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1373.03		1374.34	1373.66	1373.01	1373.76		1373.97	1372.81	1372.99	1373.23	1373.12
2		1373.86	1374.44			1373.02	1372.81		1372.31	1373.05		1373.17
3	1372.75			1373.49	1373.75		1372.85	1373.67		1373.43	1372.86	1372.98
4	1373.69	1373.56	1374.04		1374.01	1372.34	1372.82	1373.70	1371.74		1373.04	
5	1373.77		1374.74	1373.79	1374.32	1372.31		1373.73	1371.78	1372.75	1373.16	1372.89
6		1373.67	1374.61			1372.33	1372.78		1371.77	1372.52		
7	1373.45			1374.35	1374.04		1372.90	1373.59	1372.22	1372.42	1371.95	1373.39
8	1373.84	1373.90	1373.78		1374.13	1372.43	1373.12	1373.59	1372.63		1371.37	
9	1373.54	1374.24	1374.15	1374.10	1373.82	1372.40	1372.22	1373.67	1373.47	1372.44	1371.59	1373.39
10		1373.88	1374.32	1372.22		1372.08	1372.93	1372.22	1373.44	1372.61		1373.62
11	1373.06			1373.85	1373.18		1373.17	1372.92		1372.92	1371.93	1373.61
12	1373.95	1373.48	1374.29			1372.09	1373.42	1372.93	1373.34		1372.22	
13	1373.91	1374.21	1374.88		1373.30	1372.46		1373.02	1373.36	1373.19	1372.56	1373.69
14		1374.22	1374.76	1373.69	1373.59	1372.72	1373.92		1373.30	1373.40		1373.69
15	1373.33			1373.68	1373.63		1373.91	1372.65		1373.08	1373.17	1373.70
16	1373.62	1373.17	1374.15	1373.74		1372.89	1373.76	1372.46	1373.37		1373.77	
17	1373.96	1373.42	1374.45	1373.76	1373.68	1373.10		1372.39	1373.63	1372.52	1373.80	1373.27
18		1372.88	1374.32	1373.95		1373.22	1373.57		1373.66	1372.97		
19	1373.03			1374.24	1374.06		1373.65	1372.00		1373.10	1373.44	1373.32
20	1373.60	1372.38	1373.90		1374.14	1373.17	1373.54	1372.04	1373.15		1373.60	
21	1373.28	1373.44	1374.07		1374.07	1373.45		1371.79	1373.06	1373.48	1373.57	1372.80
22		1373.96	1374.12	1374.26		1373.54	1373.36	1372.22	1372.85	1373.72		1372.86
23	1372.67			1373.97	1373.71		1373.69	1371.67		1373.56	1373.04	1372.81
24		1373.81	1373.85		1374.08	1373.23	1373.80	1372.25	1372.93		1372.87	
25	1373.12		1374.29	1373.90	1374.28	1373.39	1372.22	1371.97	1373.19	1373.11	1373.26	1372.76
26		1373.95	1374.17	1373.86		1373.62	1373.61		1373.11	1372.86		1373.30
27	1373.29			1373.64	1374.03	1372.22	1374.04	1371.86		1373.01	1373.45	1373.26
28		1373.94	1374.14	1373.73	1374.23	1373.52	1374.03	1372.32	1372.29		1373.53	
29	1373.90		1374.63	1373.69	1374.17	1373.55		1373.46	1372.06	1372.96	1373.59	1373.05
30			1374.51		1372.22	1373.53	1373.82		1372.27	1372.76		1373.30
31	1374.35				1373.95		1373.99	1373.24				1373.46

1980 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		1372.47		1373.11	1372.46		1372.65	1372.70		1372.98	1372.17	1372.38
2	1373.05		1373.13		1372.26	1372.52	1372.86	1372.85	1371.06	1373.05	1372.06	
3	1373.03	1371.85	1373.43	1373.08	1372.28	1372.49		1373.08	1371.07	1372.22	1371.81	1372.54
4	1373.12	1372.04	1373.34			1372.69	1372.44		1371.41	1373.10		1372.65
5		1372.28		1372.10	1372.52		1372.52	1372.73		1373.22	1371.17	1372.83
6	1372.85		1373.07		1372.86	1372.50	1372.71	1372.70	1372.21	1373.21	1371.03	
7	1372.57	1372.04	1373.16	1370.89	1373.18	1372.60	1372.22	1372.69	1372.91		1371.05	1373.23
8	1372.45	1372.13	1373.13	1370.84		1372.94	1372.56		1373.13	1372.72		1373.39
9		1372.33		1370.98	1373.23	1372.22	1372.56	1372.79		1372.41	1370.97	1373.26
10	1372.44		1373.05		1373.20	1372.67	1372.70	1372.91	1373.17	1372.05	1371.02	
11	1372.87	1372.31	1373.29	1371.31	1373.07	1372.69		1373.11	1373.24		1371.19	1372.66
12	1373.20	1372.52	1373.36	1371.77		1372.96	1372.30		1373.12	1371.56		1372.24
13		1372.63	1372.22	1372.13	1372.60		1372.24	1373.14		1371.68	1371.57	1372.22
14	1373.49		1373.01		1372.68	1372.69	1372.34	1373.32	1372.67	1372.07	1372.08	
15	1373.53	1372.30	1373.17	1372.53	1373.08	1372.62		1373.48	1372.74		1372.41	1371.67
16	1373.30	1372.18	1373.35	1373.05		1372.65	1372.35		1372.82	1373.14		1371.52
17		1372.35		1373.49	1372.90		1372.36	1373.00		1373.27	1372.82	1371.79
18	1372.88		1373.36		1372.91	1373.42	1372.37	1373.00	1372.99	1373.05	1372.58	
19	1373.01	1372.49	1373.26	1373.61	1372.80	1373.52		1373.10	1372.91		1372.58	1371.96
20	1372.93	1372.69	1373.27	1373.49		1373.49	1372.12		1372.89	1372.23		1372.38
21		1373.22		1373.30	1372.25		1372.42	1372.94		1371.97	1372.47	1372.71
22	1372.44		1373.02		1372.08	1372.57	1372.59	1372.97	1372.26	1371.86	1372.73	
23	1372.50	1372.64	1373.17	1372.56	1371.97			1372.90	1372.10		1372.86	1372.47
24	1373.00	1372.71	1373.34	1372.54			1373.05		1372.32	1372.09		1372.16
25		1372.86		1372.84	1371.51		1373.32	1372.31		1372.38	1372.97	1372.34
26	1372.96		1373.53		1371.60	1372.48	1373.35	1372.34	1372.77	1372.81	1373.03	
27	1373.27	1373.00	1373.44	1372.86	1371.89	1372.70		1372.37	1373.04		1373.16	1372.14
28	1373.38	1373.45	1373.33	1373.11	1372.22	1372.91	1372.87		1372.90	1372.77		1371.94
29		1373.44		1373.09	1372.31		1372.79	1371.99		1372.83	1372.48	1371.93
30	1372.90		1372.70		1372.53	1372.28	1372.70	1371.56	1372.71	1372.60	1372.29	
31	1372.75		1372.87		1372.80			1371.26				1372.68

1981 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1372.58	1371.71	1371.11		1372.59	1372.28	1371.23	1371.72	1372.19	1372.51	1371.80	
2	1372.87	1371.58	1371.53	1373.01	1372.73	1372.26	1372.22	1371.88	1372.10		1371.47	1372.29
3		1371.91	1371.65	1372.88		1372.46	1371.51		1372.12	1372.59		1372.71
4	1372.46			1372.78	1372.38	1372.22	1371.89	1371.64		1372.45	1371.17	1372.78
5	1372.46	1372.36	1372.04	1372.22	1372.21	1372.45	1372.01	1371.55	1371.71	1372.27	1371.75	
6	1372.55	1372.46	1372.08	1372.25	1372.06	1372.32		1371.64	1371.40		1372.09	1371.96
7		1372.27	1372.15	1372.14		1372.39	1372.02		1371.39	1371.92		1371.18
8	1372.23			1372.03	1372.21		1372.05	1370.78		1372.16	1372.31	1370.67
9	1372.38	1371.78	1371.71		1372.34	1372.39	1372.14	1370.88	1371.49	1372.26	1372.29	
10	1372.42	1371.77	1371.97	1371.77	1372.04	1372.36		1371.28	1371.58		1372.05	1370.39
11	1372.22	1371.75	1372.18	1371.64		1372.34	1371.77	1372.22	1371.38	1371.35		1370.96
12	1372.80			1371.84	1371.89		1371.51	1372.02		1370.81	1371.59	1371.32
13	1372.94	1372.05	1372.30		1371.77	1372.12	1371.69	1372.41	1371.85	1370.46	1371.69	
14	1372.94	1371.98	1372.31	1371.45	1371.68	1372.03		1372.56	1372.02		1372.13	1371.84
15		1372.01	1372.46	1371.53		1372.07	1371.58		1372.15	1369.75		1372.07
16	1372.51			1371.49	1371.25	1372.22	1371.62	1371.78		1369.66	1372.64	1372.30
17	1372.51	1371.61	1372.58		1371.27	1371.95	1371.60	1371.64	1372.09	1369.65	1372.45	
18	1372.53	1371.66	1372.50	1371.43	1371.28	1372.16		1371.53	1372.11		1372.46	1372.19
19		1372.06	1372.43	1371.95		1372.49	1371.59		1372.25	1370.33		1372.24
20	1372.53			1372.12	1371.88		1371.06	1371.87		1370.99	1372.17	1372.30
21	1372.82	1372.05	1371.67	1372.22	1372.43	1372.29	1370.41	1372.05	1372.31	1371.54	1372.21	
22	1372.91	1371.79	1371.73	1371.98	1372.64	1372.20		1372.41	1372.65	1372.22	1372.35	1372.33
23		1371.52	1372.03	1371.89		1372.11	1369.49		1372.67	1372.47		1372.39
24	1372.82			1372.32	1372.10		1369.34	1372.72	1372.22	1372.74	1372.46	1372.36
25	1372.71	1371.46	1372.12		1372.04	1371.63	1369.15	1372.44	1372.52	1372.68	1372.63	
26	1372.68	1371.50	1372.10	1372.52	1372.02	1371.60		1372.06	1372.58		1372.61	1372.28
27		1371.37	1372.30	1372.38		1371.28	1369.46	1372.22	1372.50	1372.68		1372.15
28	1372.68			1372.46	1372.07		1369.99	1371.95		1372.65	1371.63	1372.30
29	1372.69	1373.44	1372.47		1372.40	1371.28	1370.57	1372.08	1372.18	1372.83	1371.53	
30	1372.43		1372.54	1372.45	1372.61	1371.34	1372.22	1372.15	1372.28		1371.60	1372.66
31			1372.83				1371.06			1372.21		1372.90

1982 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1373.14	1370.12	1371.28	1372.29	1372.34	1372.26	1372.22	1371.85	1372.35		1372.60	1371.54
2		1370.68	1371.11	1372.68		1372.29	1372.26		1372.42	1371.65		1371.57
3	1372.88			1372.83	1372.14	1372.22	1372.20	1371.59		1372.25	1372.48	1371.27
4	1372.75	1371.83	1371.31		1372.19	1371.82	1372.26	1371.72	1372.17	1372.83	1372.29	
5	1372.74	1372.07	1371.70	1372.28	1372.26	1371.39		1371.85	1372.26		1372.43	1370.96
6		1371.81	1371.91	1372.25	1372.22	1371.06	1372.10		1372.41	1372.78		1371.26
7	1372.60			1372.48	1371.81		1372.18	1371.72		1372.42	1372.08	1371.63
8	1372.56	1370.57	1372.36	1372.22	1371.88	1371.00	1372.17	1372.02	1372.44	1372.34	1372.06	
9	1372.52	1370.19	1372.30	1372.47	1372.03	1370.95		1372.10	1372.40		1372.35	1371.39
10		1369.99	1372.25	1372.13		1370.95	1371.55		1372.23	1372.06		1371.03
11	1372.10			1371.69	1371.98		1370.95	1372.28		1372.07	1371.87	1370.89
12	1372.16	1370.39	1372.21		1372.23	1370.96	1370.77		1371.90	1372.24	1371.48	
13	1372.11	1370.96	1372.19	1371.50	1372.17	1370.94		1372.49	1371.82		1371.09	1370.30
14		1371.46	1371.65	1371.46		1370.72	1370.04		1371.89	1372.10		1370.56
15	1371.58			1371.71	1371.80		1370.04	1372.28		1372.06	1370.95	1370.94
16	1371.51	1371.54	1370.41		1371.63	1369.93	1370.23	1371.88	1371.97	1372.12	1371.21	
17	1371.66	1371.32	1370.08	1371.79	1371.64	1369.79		1371.54	1371.73		1371.52	1371.72
18		1371.23	1370.07	1371.74		1369.99	1371.21		1371.71	1371.77		1372.08
19	1371.96			1371.73	1371.66		1372.12	1371.61		1371.87	1371.42	1372.32
20	1372.21	1371.45	1370.79		1371.55	1369.88	1372.59	1371.74	1371.62	1371.95	1370.94	
21	1372.44	1371.99	1371.37	1371.80	1371.58	1370.46		1371.65	1371.91		1370.71	1372.07
22		1372.37	1371.70	1371.72		1370.87	1372.61		1372.05	1371.87		1372.04
23	1372.21			1371.42	1371.68		1372.41	1370.95		1371.96	1371.20	1372.02
24	1372.42	1372.48	1371.16		1372.08	1371.64	1372.32	1370.88	1372.59	1371.82	1371.67	
25	1372.46	1372.54	1371.15	1371.02	1372.27	1371.91		1370.90	1372.80		1371.96	1371.75
26	1372.22	1372.48	1371.20	1371.52		1372.43	1372.12		1372.47	1371.34		1371.51
27	1372.45			1372.02	1372.01			1370.77		1371.29	1372.13	1371.50
28	1371.87	1371.60	1371.22		1371.87	1372.18	1371.92	1371.13	1371.75	1371.72	1372.17	
29	1370.91	1373.44	1371.38	1372.49	1372.03	1372.26		1371.65	1371.31		1371.93	1371.60
30			1371.46	1372.43		1372.54	1371.94		1371.40	1372.17		1371.62
31	1370.02				1372.19		1371.76	1372.17		1372.33		1371.85

1983 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		1371.60	1371.94	1372.10		1371.87	1371.51		1371.78	1371.46	1371.51	1371.54
2	1372.10			1371.94	1371.84		1371.58	1371.15		1371.58	1371.60	1371.68
3	1372.16	1371.78	1371.65		1371.81	1371.14	1371.75	1371.21	1371.91	1371.55	1371.56	1371.67
4	1372.31	1371.59	1371.49	1371.79	1371.92	1371.06		1371.36	1371.86	1371.55	1371.80	1371.67
5		1371.60	1371.48	1372.05		1370.63	1371.79		1372.02	1371.34	1371.66	1371.53
6	1372.30			1371.95	1371.60	1372.22	1371.75	1371.67		1371.21	1371.66	1371.59
7	1372.29	1371.35	1371.65		1371.76	1370.40	1371.62	1371.99	1371.71	1371.14	1371.60	1371.44
8	1372.24	1371.71	1371.93	1371.58	1371.87	1370.82		1371.93	1371.86	1371.10	1371.69	1371.48
9		1372.01	1372.06	1371.60		1371.07	1371.34		1372.14	1371.23	1371.58	1371.42
10	1372.21			1371.65	1371.13		1371.48	1371.39		1371.25	1371.63	1371.36
11	1372.28	1372.26	1371.83		1370.51	1371.22	1371.61	1371.28	1372.08	1371.44	1371.62	1371.37
12	1372.38	1372.09	1371.90	1372.04	1370.50	1371.51		1371.80	1372.15	1371.73	1371.64	1371.38
13		1372.11	1371.91	1371.97	1372.22	1371.74	1371.69		1372.21	1371.72	1371.60	1371.55
14	1372.31			1372.14	1371.21		1371.67	1371.91	1372.00	1371.42	1371.56	1371.68
15	1372.15	1371.86	1371.68	1372.22	1371.49	1372.08	1371.72	1372.20	1371.89	1371.20	1371.51	1371.55
16	1371.84	1371.91	1371.53	1372.05	1371.83	1372.15		1372.27	1371.64	1371.26	1371.27	1371.47
17		1372.05	1371.56	1371.87		1372.03	1371.90		1371.70	1371.44	1371.35	1371.31
18	1371.23		1372.22	1371.84	1371.83		1371.95	1372.35	1371.66	1371.54	1371.42	1371.33
19	1371.32	1371.80	1371.45		1371.89	1371.86	1371.98	1372.43	1371.74	1371.57	1371.42	1371.22
20	1371.50	1371.91	1371.35	1371.91	1371.69	1371.94	1372.22	1372.39	1371.60	1371.67	1371.47	1371.28
21		1372.00	1371.50	1371.78		1372.07	1371.87		1371.79	1371.92	1371.44	1371.28
22	1371.88			1371.97	1371.49	1372.22	1371.73	1372.02	1371.84	1371.72	1371.36	1371.33
23	1372.09	1371.92	1371.96		1371.65	1371.54	1371.81	1372.05	1371.85	1371.75	1371.38	1371.32
24	1372.33	1372.00	1372.04	1371.76	1371.96	1371.67		1372.08	1371.71	1371.58	1371.41	1371.37
25		1371.94	1372.13	1371.69		1371.86	1371.66		1371.51	1371.61	1371.42	1371.34
26	1371.77			1371.62	1372.13		1371.86	1371.83	1371.39	1371.59	1371.45	1371.39
27	1371.73	1372.02	1372.15		1372.28	1371.97	1371.84	1372.01	1371.17	1371.57	1371.30	1371.40
28	1371.69	1371.90	1372.07	1371.44	1372.32	1372.00		1371.97	1371.19	1371.74	1371.41	1371.37
29		1373.44	1372.14	1371.37		1371.98	1371.46		1371.31	1371.63	1371.53	1371.39
30	1371.39			1371.72	1372.21		1371.40	1371.56	1371.38	1371.67	1371.56	1371.45
31	1371.52		1372.06		1371.94		1371.39	1371.80		1371.67		1371.36

1984 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1371.54	1370.21	1371.68	1370.57	1370.13	1371.27	1371.60	1371.89	1371.50	1371.63	1371.31	1371.41
2	1371.52	1371.07	1371.65	1370.76	1370.89	1371.56		1372.03	1371.60		1371.31	1371.36
3	1371.61	1371.32	1371.76	1371.02		1371.78	1371.61	1372.22	1371.84	1371.56	1371.35	1371.36
4	1371.67	1371.57	1371.64	1371.28	1371.51		1371.79	1372.04		1371.61	1371.31	1371.33
5	1371.67	1371.40	1371.85	1371.42	1371.43	1371.70	1371.89	1371.91	1371.89	1371.68	1371.32	1371.27
6	1371.47	1371.35	1371.61	1371.62	1371.41	1371.69		1372.11	1371.66		1371.41	1371.36
7	1371.58	1371.21	1371.51	1371.61		1371.79	1372.00		1371.87	1371.61	1371.27	1371.21
8	1371.53	1370.90	1371.35	1371.73	1370.84		1372.07	1371.91		1371.48	1371.24	1371.30
9	1371.60	1370.49	1371.42	1371.52	1370.49	1371.83	1372.13	1371.75	1371.78	1371.49	1371.20	1371.22
10	1371.53	1370.51	1371.35	1371.58	1370.21	1371.91		1371.88	1371.69		1371.21	1371.31
11	1371.51	1370.53	1371.52	1371.47		1372.05	1371.87		1371.77	1371.35	1371.31	1371.12
12	1371.30	1370.89	1371.32	1371.56	1370.11		1371.59	1372.03	1372.22	1371.32	1371.28	1371.30
13	1371.11	1370.96	1371.35	1371.47	1370.23	1371.80	1371.79	1371.99	1371.63	1371.51	1371.31	1371.18
14	1370.83	1371.45	1371.29	1371.40	1370.71	1371.80		1371.86	1371.49		1371.38	1371.28
15	1370.95	1371.56	1371.53	1371.30		1371.54	1371.62		1371.55	1371.32	1371.39	1371.22
16	1370.91	1371.59	1371.64	1371.34	1371.59		1371.55	1371.72		1371.33	1371.31	1371.31
17	1371.09	1371.45	1371.79		1371.69	1371.48	1371.64	1371.65	1371.59	1371.38	1371.24	1371.31
18	1371.03	1371.64	1371.86	1371.20	1371.89	1371.43		1371.68	1371.41		1371.35	1371.35
19	1371.36	1371.20	1371.94	1371.45		1371.47	1371.59		1371.59	1371.26	1371.34	1371.29
20	1371.27	1371.27	1371.95	1371.76	1371.67		1371.43	1371.58		1371.32	1371.15	1371.49
21	1371.29	1370.85	1371.92		1371.56	1371.61	1371.55	1371.62	1371.57	1371.42	1371.20	1371.32
22	1371.32	1370.58	1371.62	1371.64	1371.54	1371.58		1371.67	1371.61		1371.22	1371.36
23	1371.28	1370.35	1371.71	1371.31		1371.53	1371.44		1371.57	1371.55	1371.12	1371.32
24	1370.79	1370.52	1371.65	1370.70	1371.12		1371.35	1371.58		1371.44	1371.05	1371.45
25	1370.32	1370.56	1371.90		1371.24	1371.39	1371.38	1371.54	1371.58	1371.55	1370.95	1371.38
26	1369.62	1370.87	1371.75	1369.09	1371.52	1371.34		1371.75	1371.58		1370.77	1371.42
27	1368.87	1371.18	1371.89	1368.92		1371.40	1371.39		1371.75	1371.47	1370.84	1371.50
28	1368.67	1371.62	1371.56	1368.86	1371.97		1371.35	1371.70		1371.30	1371.02	1371.45
29	1368.58	1371.77	1371.17		1371.78	1371.50	1371.49	1371.46	1371.71	1371.43	1371.12	1371.65
30	1368.95		1370.80	1369.34	1371.62	1371.52		1371.57	1371.55	1371.29	1371.39	1371.45
31	1369.52		1370.69				1372.09			1371.36		1371.52

1985 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1371.69	1371.44	1371.47	1371.52	1371.54	1371.38	1371.56	1371.83	1371.74	1371.54	1371.39	1371.36
2	1371.55	1371.50	1371.57	1371.60	1371.39	1371.55	1371.53	1371.64	1371.76	1371.46	1371.38	1371.27
3	1371.57	1371.63	1371.41	1371.59	1371.45	1371.41	1371.52	1371.96	1371.64	1371.47	1371.20	1371.36
4	1371.54	1371.60	1371.52	1371.64	1371.50	1371.58	1371.56	1371.81	1371.63	1371.46	1371.21	1371.27
5	1371.72	1371.66	1371.41	1371.55	1371.51	1371.39	1371.48	1372.12	1371.69	1371.47	1371.21	1371.24
6	1371.52	1371.60	1371.44	1371.53	1371.47	1371.59	1371.25	1371.93	1371.66	1371.43	1371.20	1371.28
7	1371.55	1371.40	1371.43	1371.47	1371.37	1371.54	1371.10	1372.00	1371.60	1371.31	1371.40	1371.31
8	1371.53	1371.56	1371.42	1371.34	1371.33	1371.41	1371.17	1371.80	1371.68	1371.38	1371.31	1371.36
9	1371.65	1371.49	1371.43	1371.53	1371.37	1371.38	1371.23	1371.59	1371.43	1371.33	1371.28	1371.42
10	1371.58	1371.62	1371.44	1371.46	1371.19	1371.29	1371.48	1371.57	1371.50	1371.36	1371.29	1371.52
11	1371.53	1371.66	1371.51	1371.52	1371.16	1371.27	1371.67	1371.54	1371.59	1371.41	1371.24	1371.67
12	1371.49	1371.62	1371.51	1371.35	1371.01	1371.51	1371.67	1371.55	1371.57	1371.38	1371.37	1371.52
13	1371.52	1371.64	1371.39	1371.53	1371.16	1371.78	1371.67	1371.50	1371.43	1371.27	1371.47	1371.60
14	1371.40	1371.56	1371.50	1371.49	1371.04	1371.82	1371.60	1371.64	1371.55	1371.36	1371.41	1371.52
15	1371.44	1371.51	1371.34	1371.62	1371.29	1371.64	1371.44	1371.52	1371.46	1371.38	1371.27	1371.46
16	1371.42	1371.55	1371.57	1371.50	1371.30	1371.69	1371.71	1371.64	1371.39	1371.44	1371.29	1371.35
17	1371.54	1371.58	1371.41	1371.51	1371.71	1371.79	1371.63	1371.54	1371.52	1371.34	1371.27	1371.33
18	1371.59	1371.58	1371.50	1371.48	1371.69	1371.76	1371.59	1371.55	1371.55	1371.38	1371.35	1371.40
19	1371.61	1371.47	1371.52	1371.54	1371.74	1371.51	1371.47	1371.45	1371.49	1371.21	1371.43	1371.62
20	1371.23	1371.55	1371.66	1371.48	1371.58	1371.57	1371.68	1371.53	1371.46	1371.21	1371.50	1371.44
21	1371.13	1371.52	1371.48	1371.60	1371.49	1371.65	1371.60	1371.49	1371.58	1371.10	1371.60	1371.31
22	1371.35	1371.47	1371.57	1371.28	1371.42	1371.69	1371.55	1371.59	1371.58	1370.92	1371.43	1371.20
23	1371.67	1371.46	1371.48	1371.04	1371.72	1371.63	1371.52	1371.59	1371.63	1370.98	1371.36	1371.23
24	1371.53	1371.47	1371.56	1370.69	1371.50	1371.61	1371.67	1371.62	1371.70	1371.22	1371.35	1371.35
25	1371.70	1371.37	1371.49	1370.76	1371.79	1371.55	1371.57	1371.82	1371.53	1371.41	1371.18	1371.42
26	1371.67	1371.42	1371.42	1370.78	1371.55	1371.62	1371.59	1371.67	1371.60	1371.70	1371.22	1371.38
27	1371.53	1371.43	1371.48	1370.91	1371.73	1371.44	1371.72	1371.87	1371.62	1371.59	1371.36	1371.35
28	1371.50	1371.47	1371.38	1371.11	1371.42	1371.55	1371.90	1371.68	1371.58	1371.58	1371.32	1371.37
29	1371.47	1371.77	1371.29	1371.34	1371.63	1371.48	1371.89	1371.83	1371.49	1371.28	1371.22	1371.47
30	1371.47		1371.48	1371.44	1371.50	1371.70	1371.74	1371.75	1371.54	1371.32	1371.27	1371.42
31	1371.62		1371.51		1371.50		1371.85	1371.72		1371.27		1371.39

1986 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1371.35	1371.50	1371.55	1371.66	1371.63	1371.33	1371.39	1371.23	1371.23	1371.23	1370.92	1370.97
2	1371.36	1371.35	1371.57	1371.59	1371.44	1371.64	1371.40	1371.37	1371.19	1371.18	1371.22	1371.16
3	1371.40	1371.20	1371.58	1371.58	1371.50	1371.33	1371.38	1371.22	1371.27	1371.48	1371.21	1371.17
4	1371.46	1371.11	1371.45	1371.64	1371.23	1371.58	1371.38	1371.42	1371.41	1371.29	1371.36	1371.26
5	1371.57	1371.07	1371.44	1371.66	1371.48	1371.15	1371.48	1371.44	1371.38	1371.46	1371.18	1371.16
6	1371.60	1371.19	1371.43	1371.49	1371.24	1371.34	1371.44	1371.52	1371.34	1371.31	1371.34	1371.10
7	1371.66	1371.48	1371.40	1371.51	1371.44	1371.41	1371.57	1371.58	1371.39	1371.38	1371.29	1371.14
8	1371.73	1371.51	1371.38	1371.45	1371.25	1371.53	1371.48	1371.62	1371.22	1371.21	1371.40	1371.12
9	1371.63	1371.55	1371.65	1371.43	1371.42	1371.37	1371.65	1371.52	1371.26	1371.38	1371.17	1371.17
10	1371.63	1371.48	1371.53	1371.38	1371.21	1371.64	1371.51	1371.54	1371.23	1371.35	1371.14	1371.21
11	1371.63	1371.34	1371.78	1371.43	1371.55	1371.40	1371.47	1371.53	1371.33	1371.41	1371.11	1371.30
12	1371.63	1371.22	1371.78	1371.32	1371.38	1371.77	1371.55	1371.58	1371.30	1371.41	1371.20	1371.34
13	1371.48	1371.45	1371.41	1371.40	1371.39	1371.39	1371.54	1371.43	1371.38	1371.28	1371.05	1371.28
14	1371.70	1371.48	1371.33	1371.34	1371.16	1371.89	1371.62	1371.60	1371.23	1371.12	1371.35	1371.42
15	1371.76	1371.48	1371.48	1371.51	1371.49	1371.76	1371.82	1371.40	1371.26	1371.25	1371.25	1371.40
16	1371.55	1371.34	1371.39	1371.24	1371.44	1371.76	1371.70	1371.45	1371.17	1371.19	1371.32	
17	1371.66	1371.31	1371.39	1371.38	1371.70	1371.66	1371.70	1371.43	1371.26	1371.22	1371.30	
18	1371.54	1371.34	1371.33	1371.28	1371.56	1371.85	1371.79	1371.30	1371.16	1371.12	1371.32	
19	1371.46	1371.45	1371.55	1371.36	1371.83	1371.50	1371.76	1371.29	1371.37	1371.05	1371.21	1371.46
20	1371.46	1371.39	1371.43	1371.21	1371.71	1371.81	1371.60	1371.55	1371.26	1370.91	1371.46	1371.62
21	1371.42	1371.48	1371.52	1371.38	1371.88	1371.68	1371.63	1371.42	1371.40	1371.03	1371.38	1371.56
22	1371.48	1371.55	1371.47	1371.71	1371.57	1371.69	1371.45	1371.40	1371.34	1371.10	1371.47	1371.43
23	1371.37	1371.52	1371.62	1371.20	1371.93	1371.45	1371.61	1371.40	1371.41	1371.06	1371.45	1371.42
24	1371.46	1371.41	1371.34	1370.95	1371.63	1371.30	1371.53	1371.37	1371.25	1371.08	1371.64	1371.50
25	1371.39	1371.49	1371.45	1371.07	1371.78	1371.52	1371.56	1371.31	1371.30	1371.25	1371.47	1371.34
26	1371.42	1371.50	1371.50	1370.94	1371.78	1371.37	1371.49	1371.45	1371.39	1371.17	1371.52	1371.41
27	1371.42	1371.57	1371.58	1371.25	1371.80	1371.44	1371.58	1371.16	1371.48	1371.33	1371.39	1371.15
28	1371.34	1371.58	1371.57	1371.20	1371.72	1371.30	1371.51	1371.32	1371.31	1371.33	1371.44	1371.22
29	1371.38	1371.77	1371.62	1371.48	1371.86	1371.46	1371.46	1371.21	1371.37	1371.45	1371.13	1371.16
30	1371.42		1371.71	1371.40	1371.68	1371.26	1371.36	1371.21	1371.25	1371.12	1371.23	1371.26
31	1371.45		1371.72		1371.77		1371.43	1371.15		1370.93		1371.11

1987 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1371.32		1371.24	1371.15	1371.32			1371.38	1372.01	1371.93	1371.84	1372.03
2	1371.24	1371.43	1371.30	1371.13		1371.47	1371.27		1371.85	1371.88	1371.87	1372.07
3	1371.34	1371.41	1371.17	1371.17	1371.36			1371.39	1371.87	1371.81	1371.88	1371.96
4	1371.33	1371.36	1371.41	1371.22		1371.43	1371.38		1371.62	1371.74	1372.07	1372.08
5	1371.42	1371.17	1371.26	1371.21	1371.27			1371.43	1371.82	1371.77	1372.05	1371.88
6	1371.34	1371.30	1371.34	1371.16		1371.50	1371.18		1371.71	1371.88	1371.87	1371.73
7	1371.58	1371.20	1370.99	1370.93	1371.33			1371.16	1371.62	1371.97	1371.94	1371.72
8	1371.35	1371.40	1371.33	1371.02		1371.72	1371.35		1371.40	1372.04	1372.04	1371.78
9	1371.39	1371.30	1371.40	1370.77	1371.37			1371.34	1371.61	1372.11	1372.08	1371.76
10	1371.28	1371.32	1371.30	1370.84		1371.36	1371.35		1371.81	1371.91	1372.14	1371.78
11	1371.45		1371.31	1370.83	1371.60			1371.55	1371.89	1371.96	1372.06	1371.90
12	1371.45		1371.39			1371.37	1371.39		1371.90	1371.75	1372.03	1371.63
13	1371.56		1371.36		1371.42			1371.44	1371.93	1371.92	1372.13	1371.61
14	1371.40		1371.50			1371.59	1371.36		1371.86	1371.64	1372.03	1371.91
15	1371.46		1371.44	1371.28	1371.63			1371.22	1371.86	1371.64	1371.87	1372.03
16	1371.50		1371.57	1371.38		1371.44	1371.48	1371.16	1371.75	1371.64	1371.74	1371.85
17	1371.57	1371.25	1371.35	1371.50	1371.37			1371.27	1371.93	1371.71	1371.81	1372.06
18	1371.45	1371.34	1371.44	1371.49		1371.50	1371.43	1372.12	1371.86	1371.96	1371.88	1371.95
19	1371.58	1371.29	1371.41	1371.57	1371.03			1371.39	1371.97	1372.09	1371.67	1372.15
20	1371.37	1371.35	1371.46	1371.42		1371.66	1371.64	1371.74	1371.78	1372.09	1371.57	1371.97
21	1371.58	1371.37	1371.41	1371.38	1371.12			1371.82	1371.82	1372.10	1371.59	1371.85
22	1371.48	1371.38	1371.52			1371.41	1371.63	1371.83	1371.69	1371.93	1371.87	1372.13
23	1371.55	1371.10	1371.49	1371.33	1371.11			1371.87	1371.62	1371.93	1372.05	1372.03
24	1371.55	1371.31	1371.37			1371.08	1371.57	1371.75	1371.58	1371.91	1372.07	1372.14
25	1371.64	1371.39	1371.58	1371.02	1371.26			1371.68	1371.85	1371.98	1372.18	1372.04
26	1371.47	1371.37	1371.45			1371.36	1371.55	1371.69	1372.21	1371.96	1372.21	1372.00
27	1371.47	1371.42	1371.38	1371.20	1371.36			1371.72	1372.14	1371.97	1372.21	1371.86
28	1371.38	1371.34	1371.29			1371.43	1371.64	1371.68	1371.86	1371.73	1372.07	1371.95
29	1371.39	1371.77	1371.21	1371.12	1371.30			1371.73	1372.09	1371.69	1371.98	1371.77
30	1371.18		1371.49			1371.54	1371.66	1371.59	1372.03	1371.76	1371.97	1371.61
31	1371.44		1371.22		1371.21			1371.82		1371.78		1371.64

1988 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1371.68	1371.83	1371.69	1371.46	1371.81	1372.08	1369.48	1371.66	1370.96	1372.09	1371.99	1371.78
2	1371.83	1372.08	1371.66	1371.73	1372.06	1371.95	1369.50	1372.10	1371.15	1372.07	1371.68	1371.72
3	1371.92	1372.05	1371.71	1371.97	1372.09	1371.76	1370.15	1372.01	1371.76	1372.05	1371.36	1371.71
4	1371.92	1372.03	1371.64	1371.91	1372.11	1371.65	1371.12	1372.20	1372.33	1372.01	1370.99	1372.09
5	1372.10	1372.03	1371.74	1371.90	1372.10	1371.92	1371.91	1371.91	1372.65	1371.63	1370.92	1372.27
6	1372.17	1372.11	1371.81	1371.67	1372.08	1371.68	1372.31	1372.27	1372.81	1371.46	1371.04	1372.43
7	1372.10	1371.90	1371.86	1371.75	1372.16	1371.89	1372.45	1372.05	1372.60	1371.08	1371.45	1372.36
8	1371.68	1372.18	1371.84	1371.93	1372.17	1372.15	1372.04	1371.93	1372.46	1371.04	1371.66	1372.49
9	1371.61	1372.17	1371.92	1372.11	1372.15	1372.27	1371.84	1371.67	1372.39	1371.22	1371.83	1372.44
10	1371.68	1372.30	1371.85	1372.07	1372.18	1372.25	1371.74	1371.02	1372.24	1371.70	1372.04	1372.43
11	1371.94	1372.11	1371.81	1372.14	1372.22	1372.22	1371.63	1370.81	1372.44	1372.17	1372.04	1372.38
12	1372.08	1372.09	1371.91	1372.16	1372.23	1372.09	1371.62	1370.83	1372.49	1372.41	1372.04	1372.41
13	1372.15	1371.98	1372.03	1371.99	1372.18	1372.00	1371.86	1371.11	1372.29	1372.40	1371.68	1372.32
14	1372.19	1371.97	1371.53	1371.71	1372.26	1372.10	1371.67	1371.44	1372.23	1372.43	1371.76	1372.41
15	1372.20	1371.83	1371.48	1371.50	1372.16	1372.07	1371.51	1371.62	1372.19	1372.42	1371.92	1372.02
16	1371.76	1371.70	1371.38	1371.37	1372.06	1371.99	1371.40	1372.13	1372.19	1372.17	1371.94	1371.75
17	1371.83	1371.71	1371.25	1371.46	1371.90	1372.02	1371.29	1372.21	1372.22	1372.15	1371.98	1371.51
18	1371.76	1371.65	1371.17	1371.64	1371.97	1371.86	1371.51	1372.43	1372.32	1372.16	1372.10	1371.26
19	1371.50	1371.58	1371.24	1371.75	1372.11	1371.86	1371.62	1372.45	1372.36	1372.10	1372.08	1371.08
20	1371.58	1371.60	1371.54	1372.02	1372.08	1371.52	1371.79	1372.43	1372.31	1371.86	1372.13	1371.04
21	1371.60	1371.82	1371.79	1372.05	1372.25	1371.57	1372.06	1372.39	1372.35	1371.81	1372.16	1371.33
22	1371.69	1371.89	1371.73	1372.27	1372.31	1371.60	1372.25	1372.32	1372.26	1371.40	1372.25	1371.20
23	1371.83	1371.82	1371.69	1372.31	1372.18	1371.64	1372.34	1372.37	1372.27	1371.28	1372.35	1371.45
24	1372.05	1372.03	1371.72	1372.24	1372.04	1371.82	1372.46	1372.24	1372.30	1371.31	1372.50	1371.59
25	1372.09	1372.07	1371.64	1372.09	1371.76	1372.03	1372.50	1372.26	1372.40	1371.41	1372.63	1371.89
26	1371.74	1372.00	1371.45	1371.95	1371.67	1372.07	1372.27	1372.52	1372.38	1371.82	1372.34	1371.57
27	1371.94	1371.95	1371.64	1371.80	1371.93	1371.76	1372.01	1372.62	1372.37	1372.13	1372.41	1371.36
28	1371.79	1371.88	1371.55	1371.91	1371.84	1370.84	1371.71	1372.57	1372.33	1372.27	1372.14	1371.37
29	1371.85	1371.86	1371.45	1371.90	1371.98	1370.00	1371.50	1371.97	1372.28	1372.31	1372.21	1371.58
30	1372.03		1371.47	1371.99	1372.28	1369.52	1371.46	1371.52	1372.32	1372.33	1371.97	1371.87
31	1371.82		1371.52		1372.05		1371.43	1370.98		1372.14		1372.17

1989 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1372.13	1372.50	1372.25	1372.13	1372.23	1371.89	1372.62	1371.64	1371.62	1372.79	1372.71	1372.81
2	1372.12	1372.10	1372.04	1371.95	1372.21	1372.23	1372.87	1371.67	1371.11	1372.80	1372.61	1372.85
3	1372.21	1372.31	1372.12	1371.78	1372.29	1372.60	1372.91	1371.72	1370.63	1373.01	1372.42	1372.67
4	1372.18	1372.45	1372.22	1371.95	1372.26	1372.94	1372.66	1372.23	1370.52	1373.27	1372.47	1372.74
5	1372.21	1372.71	1372.57	1372.14	1372.42	1372.88	1372.66	1372.30	1370.51	1373.39	1372.39	1372.68
6	1372.29	1372.55	1372.69	1372.35	1372.69	1372.87	1372.72	1372.06	1370.72	1373.37	1372.34	1372.66
7	1372.17	1372.84	1372.59	1372.53	1372.96	1372.71	1373.13	1371.71	1371.20	1373.20	1372.52	1372.48
8	1371.82	1372.58	1372.35	1372.83	1373.18	1372.84	1373.21	1371.45	1371.67	1373.34	1372.67	1372.81
9	1371.80	1372.17	1371.98	1373.27	1373.22	1372.62	1373.13	1371.50	1371.84	1373.27	1372.45	1373.05
10	1371.84	1371.95	1371.50	1373.52	1373.33	1372.19	1373.04	1371.58	1371.92	1373.14	1372.39	1373.01
11	1372.28	1371.79	1371.02	1373.70	1373.25	1371.65	1372.97	1371.84	1371.57	1373.07	1372.49	1373.13
12	1372.16	1371.89	1370.81	1373.64	1373.24	1371.06	1372.87	1372.06	1371.45	1373.27	1372.74	1373.04
13	1371.91	1371.83	1370.94	1373.42	1373.16	1370.42	1372.72	1372.28	1371.62	1372.91	1372.83	1373.20
14	1371.67	1371.81	1371.39	1372.78	1372.94	1369.93	1372.57	1371.86	1372.00	1372.55	1372.76	1373.04
15	1370.90	1372.00	1371.87	1372.37	1372.70	1369.69	1372.66	1371.39	1372.20	1372.34	1372.80	1373.02
16	1370.98	1372.45	1372.23	1372.05	1372.37	1370.12	1372.63	1371.02	1372.26	1372.18	1373.04	1372.83
17	1371.14	1372.59	1372.88	1371.82	1372.25	1370.74	1372.33	1370.95	1372.30	1372.21	1373.28	1372.77
18	1371.77	1372.83	1372.87	1371.68	1372.22	1371.57	1372.19	1371.01	1372.30	1372.18	1373.04	1372.42
19	1372.27	1372.85	1372.57	1371.76	1372.02	1372.37	1372.11	1371.36	1371.87	1372.20	1372.93	1372.52
20	1372.80	1372.22	1372.18	1371.95	1371.39	1372.71	1371.86	1371.90	1371.91	1372.17	1372.86	1369.71
21	1372.89	1371.85	1371.78	1372.14	1371.32	1372.72	1371.66	1372.25	1371.73	1372.45	1372.80	1372.61
22	1372.73	1371.55	1371.67	1372.06	1371.53	1372.23	1371.49	1372.62	1371.59	1372.46	1372.85	1372.74
23	1372.07	1371.46	1371.82	1371.95	1371.63	1371.52	1371.37	1372.84	1371.62	1372.43	1372.51	1373.04
24	1371.78	1371.85	1372.04	1371.85	1371.86	1371.14	1371.61	1372.77	1371.98	1372.54	1372.54	1373.03
25	1371.70	1372.31	1372.17	1372.10	1371.84	1371.03	1371.80	1372.90		1373.06	1372.31	1372.58
26	1371.35	1372.39	1372.36	1372.12	1371.75	1370.98	1372.09	1372.59		1372.85	1371.85	1372.32
27	1371.48	1372.56	1372.35	1372.27	1371.91	1370.91	1372.17	1372.69		1372.78	1371.94	1372.00
28	1371.58	1372.44	1372.13	1372.34	1371.84	1370.96	1372.11	1372.86	1372.76	1372.82	1372.35	1371.73
29	1371.71	1371.86	1372.38	1372.34	1371.94	1371.41	1371.91	1372.74	1373.07	1372.81	1372.60	1371.50
30	1372.27		1372.23	1372.24	1371.85	1371.92	1371.62	1372.60	1372.99	1372.83	1372.65	1371.53
31	1372.31		1372.20		1371.67		1371.49	1372.17		1372.86		1372.07

1990 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1372.57	1372.61	1372.37	1372.62	1372.53	1372.70	1371.34	1373.23	1372.64	1372.43	1372.29	1372.88
2	1372.80	1372.83	1372.63	1372.44	1372.36	1372.89	1370.93	1372.98	1372.71	1372.27	1372.26	1373.14
3	1372.89	1372.56	1372.63	1372.34	1372.62	1372.93	1371.05	1372.84	1372.90	1372.51	1372.35	1373.17
4	1372.82	1372.73	1372.39	1372.35	1372.46	1372.93	1371.35	1372.90	1373.18	1372.49	1372.33	1373.23
5	1372.60	1372.42	1372.26	1372.30	1372.47	1373.20	1372.05	1372.65	1372.81	1372.58	1372.62	1372.97
6	1372.88	1372.76	1372.03	1372.38	1372.29	1372.93	1372.71	1372.41	1372.72	1372.56	1372.79	1372.89
7	1372.89	1372.75	1371.94	1372.44	1372.57	1373.18	1373.14	1372.63	1373.19	1372.64	1372.53	1372.82
8	1372.73	1372.96	1372.02	1372.67	1372.43	1373.30	1373.37	1372.54	1373.33	1372.49	1372.63	1372.84
9	1372.57	1372.81	1372.19	1372.77	1373.03	1373.22	1373.37	1372.83	1373.32	1372.53	1372.75	1372.99
10	1372.51	1372.60	1372.39	1373.15	1372.98	1373.38	1373.55	1373.04	1373.28	1372.30	1372.78	1373.40
11	1372.71	1372.47	1372.45	1372.86	1373.54	1373.42	1373.39	1373.03	1373.31	1372.12	1372.62	1373.59
12	1373.10	1372.34	1372.28	1372.95	1373.84	1373.35	1373.08	1373.02	1373.30	1372.16	1372.63	1373.32
13	1373.04	1372.22	1372.42	1373.08	1373.84	1373.54	1373.00	1372.62	1373.19	1372.18	1372.74	1372.84
14	1373.02	1372.51	1372.40	1373.29	1373.49	1373.34	1372.88	1372.47	1373.06	1372.15	1372.68	1372.19
15	1372.93	1372.76	1372.48	1373.28	1373.05	1373.33	1373.25	1372.21	1373.09	1372.02	1372.59	1371.72
16	1372.78	1373.02	1372.58	1373.16	1372.48	1373.24	1373.28	1372.41	1373.06	1372.20	1371.51	1371.45
17	1372.88	1373.09	1372.65	1372.79	1372.19	1373.26	1373.26	1372.25	1372.96	1372.56	1371.03	1371.04
18	1372.79	1373.44	1372.85	1372.49	1371.89	1373.42	1373.06	1372.23	1372.94	1372.89	1370.74	1371.17
19	1372.93	1373.35	1373.05	1372.57	1371.92	1373.54	1372.87	1371.96	1373.10	1373.17	1370.33	1371.59
20	1373.28	1373.08	1373.02	1372.88	1372.09	1373.26	1372.55	1371.99	1373.12	1373.46	1370.22	1372.23
21	1373.53	1372.52	1372.75	1373.18	1372.31	1373.20	1372.26	1371.52	1373.23	1373.36	1370.59	1372.55
22	1373.32	1372.20	1372.33	1373.33	1372.54	1373.15	1372.15	1371.07	1373.24	1373.26	1371.16	1372.89
23	1373.00	1371.96	1372.36	1373.52	1372.44	1372.92	1371.99	1371.02	1373.21	1373.10	1371.60	1373.02
24	1372.26	1371.87	1372.37	1373.45	1372.56	1372.66	1371.86	1371.06	1373.00	1372.94	1372.07	1372.79
25	1372.04	1371.92	1372.34	1373.21	1372.94	1372.52	1372.11	1371.38	1372.92	1372.85	1372.52	1372.58
26	1371.97	1372.31	1372.33	1372.78	1372.84	1372.40	1372.25	1371.72	1372.71	1372.83	1372.40	1372.60
27	1372.14	1372.23	1372.75	1372.40	1373.05	1372.27	1372.62	1371.90	1372.55	1372.68	1372.62	1372.87
28	1372.23	1372.19	1372.83	1372.50	1372.79	1372.35	1373.02	1372.40	1372.52	1372.79	1372.75	1372.78
29	1372.20	1371.86	1372.34	1372.62	1372.96	1372.34	1373.20	1372.86	1372.58	1372.48	1372.96	1373.18
30	1372.41		1371.85	1372.71	1372.81	1371.90	1373.16	1372.99	1372.46	1372.26	1372.89	1373.40
31	1372.56		1372.91		1372.70		1373.28	1372.65		1372.29		1373.62

1991 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1373.34	1370.91	1373.56	1372.82	1373.11	1372.64	1372.99	1373.20	1372.68	1370.85	1372.31	1372.79
2	1373.22	1371.91	1373.69	1372.66	1373.50	1372.63	1373.35	1372.59	1373.02	1370.84	1373.15	1372.78
3	1373.18	1372.33	1373.70	1372.84	1373.51	1372.95	1373.90	1372.46	1373.03	1370.94	1373.26	1372.64
4	1373.17	1372.84	1373.77	1373.08	1373.34	1372.71	1373.63	1372.90	1373.05	1371.47	1373.04	1372.76
5	1373.42	1373.19	1374.00	1373.32	1373.04	1372.49	1373.32	1372.93	1373.13	1371.93	1372.73	1372.51
6	1373.70	1373.58	1374.03	1373.49	1372.44	1372.12	1373.28	1373.34	1372.85	1372.51	1372.72	1372.58
7	1373.51	1373.40	1373.88	1374.03	1372.24	1371.76	1373.17	1373.57	1372.58	1373.07	1372.86	1372.38
8	1373.24	1373.01	1373.75	1374.15	1371.99	1371.21	1373.41	1373.77	1372.39	1373.08	1372.89	1372.36
9	1372.98	1372.56	1373.29	1373.94	1372.08	1371.12	1373.61	1373.65	1372.32	1373.34	1372.83	1371.75
10	1372.50	1372.51	1372.88	1374.11	1372.48	1371.27	1373.21	1373.48	1372.60	1373.52	1372.88	1371.72
11	1372.17	1372.58	1372.77	1373.88	1372.45	1371.68	1373.08	1373.10	1372.91	1373.44	1372.22	1371.54
12	1371.66	1372.97	1372.80	1373.70	1372.23	1372.10	1372.94	1373.41	1373.30	1373.11	1372.14	1371.43
13	1371.59	1372.89	1372.72	1373.57	1372.24	1373.00	1372.73	1373.36	1373.50	1372.91	1372.22	1371.52
14	1371.57	1373.34	1372.94	1373.52	1372.77	1373.14	1372.67	1373.31	1373.63	1372.87	1372.64	1371.55
15	1371.09	1373.23	1373.23	1373.47	1372.81	1373.29	1372.79	1373.22	1373.60	1372.92	1372.91	1371.48
16	1371.13	1373.42	1373.41	1373.35	1373.13	1372.95	1373.04	1372.97	1373.39	1372.81	1372.89	1371.92
17	1371.70	1373.38	1373.47	1373.16	1373.47	1373.10	1373.05	1372.54	1373.47	1373.21	1373.06	1372.30
18	1372.02	1373.21	1373.28	1373.35	1373.33	1372.99	1373.04	1372.51	1373.38	1373.43	1373.02	1372.63
19	1372.65	1372.89	1372.95	1373.38	1373.20	1372.71	1373.25	1372.03	1373.34	1373.48	1373.12	1372.80
20	1372.97	1372.44	1372.55	1373.67	1373.18	1372.78	1373.21	1371.62	1373.51	1373.36	1373.26	1372.74
21	1373.11	1372.16	1372.39	1373.76	1373.27	1372.92	1372.94	1371.67	1373.64	1373.35	1373.23	1372.11
22	1372.88	1372.06	1371.96	1373.67	1373.27	1373.06	1372.56	1372.16	1373.82	1373.15	1372.92	1371.84
23	1372.36	1371.99	1371.32	1373.55	1373.22	1373.45	1371.83	1372.78	1373.80	1372.62	1373.01	1371.69
24	1372.28	1371.90	1371.21	1373.58	1373.27	1373.69	1371.53	1373.55	1373.76	1371.95	1373.00	1371.55
25	1372.09	1372.31	1371.31	1373.44	1372.70	1373.47	1371.29	1373.71	1373.55	1371.18	1372.96	1371.40
26	1371.72	1372.52	1371.93	1373.28	1372.30	1372.97	1371.48	1373.59	1373.00	1370.57	1372.89	1371.15
27	1371.29	1372.78	1372.23	1373.24	1372.34	1372.68	1372.11	1373.32	1372.71	1370.23	1372.53	1370.84
28	1370.99	1373.32	1372.98	1372.91	1372.31	1372.26	1372.74	1373.07	1372.36	1370.36	1372.71	1370.61
29	1370.63	1371.86	1373.31	1372.97	1372.40	1372.27	1373.26	1372.78	1371.73	1370.51	1372.55	1371.08
30	1370.45		1373.15	1372.93	1372.44	1372.70	1373.57	1372.20	1371.29	1370.89	1372.56	1371.74
31	1370.48		1373.07		1372.78		1373.56	1372.32		1371.58		1372.38

1992 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab — Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1372.68	1372.80	1373.67	1372.25	1372.58	1372.47				1372.34	1372.35	1371.98
2	1373.00	1372.75	1373.87	1372.93	1372.51	1372.47				1372.42	1372.40	1372.15
3	1372.46	1372.41	1373.82	1373.06	1372.62	1372.43			1372.82	1372.43	1372.28	1372.32
4	1372.34	1372.78	1373.59	1372.81	1372.72	1372.52			1372.86	1372.43	1372.20	1372.44
5	1371.89	1372.99	1373.45	1372.71	1372.59	1372.42			1372.57	1372.35	1372.12	1372.24
6	1371.88	1373.11	1373.44	1372.85	1372.54	1372.40			1372.22	1372.41	1372.07	1372.24
7	1372.06	1373.27	1373.42	1372.79	1372.54	1372.40			1372.53	1372.39	1372.07	1372.42
8	1372.43	1373.66	1373.21	1372.85	1372.50	1372.65			1372.94	1372.55	1372.04	1372.38
9	1372.60	1373.37	1373.15	1372.83	1372.46	1372.45			1372.97	1372.61	1371.64	1372.54
10	1372.89	1372.77	1373.04	1372.86	1372.63	1372.76			1372.94	1372.68	1371.88	1372.25
11	1373.43	1372.80	1373.36	1372.92	1372.77	1373.01			1372.85	1372.71	1372.16	1371.93
12	1373.59	1372.64	1373.34	1372.88	1373.09	1373.17			1372.77	1372.72	1372.36	1371.82
13	1373.64	1372.78	1373.16	1372.98	1373.08	1373.35			1372.75	1372.58	1372.34	1371.98
14	1373.61	1372.63	1373.09	1372.90	1373.15	1373.13			1372.80	1372.58	1372.44	1372.25
15	1373.00	1372.79	1373.03	1372.92	1373.14	1372.36			1372.86	1372.78	1372.56	1372.74
16		1372.86	1373.30	1373.01	1373.20	1372.41			1372.64	1372.58	1372.79	1373.09
17		1373.15	1373.45	1372.75	1373.13	1372.73			1372.76	1372.46	1372.78	1373.08
18		1373.47	1373.65	1372.76	1373.34				1372.86	1372.54	1372.79	1373.19
19		1373.56	1373.72	1372.88	1373.00				1372.97	1371.94	1372.53	1372.98
20		1373.59	1373.67	1373.02	1372.71				1372.95	1371.59	1372.50	1372.99
21		1373.46	1373.67	1372.94	1372.34				1372.52	1371.24	1372.64	1373.18
22		1372.98	1373.47	1372.75	1372.41				1372.45	1371.32	1372.41	1373.38
23		1372.60	1373.47	1372.76	1372.40				1372.47	1371.49	1372.34	1373.27
24	1373.00	1372.27	1373.41	1372.66	1372.42				1372.49	1371.74	1372.56	1373.14
25	1373.27	1372.11	1373.24	1372.99	1372.53				1372.49	1371.56	1372.76	1372.99
26	1373.54	1371.97	1372.77	1372.81	1372.54				1372.54	1371.43	1372.77	1372.80
27	1373.03	1372.40	1372.35	1373.18	1372.53				1372.35	1371.25	1372.63	1372.93
28	1372.78	1372.64	1371.90	1373.12	1372.74				1372.07	1371.32	1372.17	1373.02
29	1372.49	1373.32	1371.33	1372.88	1372.66				1372.17	1371.53	1371.87	1372.68
30	1372.46		1371.43	1372.61	1372.68				1372.22	1371.85	1371.93	1372.58
31	1372.40		1371.87		1372.69					1372.17		1372.66

1993 DAILY MEAN SOLAR IRRADIANCE
NIMBUS-7 (ERB Channel 10C)

Eppley Lab

Units=W/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												1372.79
2	1372.79											1372.75
3	1372.70											1372.82
4	1372.50											1373.10
5												1372.66
6	1372.49											
7	1372.38											1372.67
8	1372.50											1372.63
9	1372.87											1372.55
10	1372.88											1372.77
11	1373.18											1372.98
12	1373.02											1373.03
13	1372.99										1373.05	1372.57
14	1372.94											1372.39
15	1373.18										1372.87	
16	1372.86											
17	1372.92										1372.62	
18	1372.71										1372.66	
19	1372.71										1372.39	
20	1372.74										1372.42	
21	1372.65										1372.65	
22	1372.86											
23	1373.05										1372.91	
24	1372.69										1373.10	
25	1371.85										1373.15	
26											1372.22	
27												
28												
29		1373.32									1372.86	
30											1372.94	
31											1372.81	

WORLD DATA CENTER A
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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."