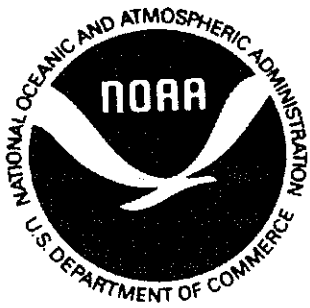




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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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S O L A R - G E O P H Y S I C A L D A T A

NUMBER 581

(Issued in Two Parts)

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Jul 92

H α SOLAR FLARES

JULY 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0001		01	0506*	0521*	0538	N07	W11	7218	06	30.4	32	SN	C 1.1			31	0.2	DEF
	LEAR	01	0506	0521	0551	N08	W09	7218	06	30.5	45	SF		2	E	75		F
	SVTO	01	0516	0525	0547	N07	W10	7218	06	30.5	31	SF	C 1.1	3	E	35		F
	WATU	01	0520	0524	0532	N07	W12	7218	06	30.3	12	SN			C	0524	0.3	E
	MITK	01	0524	0527	0528	N07	W13	7218	06	30.2	4	SN			C	0527	0.1	D
	MITK	01	0530	0531	0532	N07	W13	7218	06	30.2	2	SN			C	0531	0.1	D
0002		01	06202	06202	0628	N13	E55	7216	07	5.4	8	SF				11		
	SVTO	01	0620	0620	0629	N14	E56	7216	07	5.5	9	SF		3	E	11		
	KANZ	01	0622	0622	0626	N12	E54	7216	07	5.3	4	SF		2	C			
0003		01	07203	07224	0731	N15	E52	7216	07	5.2	11	SF	B 8.9			76		F
	LEAR	01	0720	0722	0728	N14	E52	7216	07	5.2	8	SF	B 8.9	3	E	50		
	KANZ	01	0722	0726	0734	N16	E53	7216	07	5.3	12	SF		2	C			
	SVTO	01	0723	0724U	0732D	N16	E52	7216	07	5.2	9D	1F		3	E	103		F
0004		01	07502	08025	0832	N07	W14	7218	06	30.3	42	SF	C 1.0			86	1.5	EFK
	KANZ	01	0750	0802	0830	N07	W14	7218	06	30.3	40	SF		2	C			
	SVTO	01	0752	0807	0834	N06	W13	7218	06	30.3	42	SF	C 1.0	3	E	30		F
	ONDR	01	0805E	0808U	0837U	N07	W14	7218	06	30.3	32U	SN			P	0808	1.5	EKF
0005	SVTO	01	0937	0938	0946	N06	W15	7218	06	30.3	9	SF	B 9.9	3	E	12		F
0006	KANZ	01	0938	0938	0942	N17	W15	7213	06	30.3	4	SF		2	C			
0007	SVTO	01	1149	1155	1225	N16	E50	7216	07	5.3	36	SF	C 1.1	3	E	19		
0008		01	12102	12133	1238	N07	W15	7218	06	30.4	28	SF	C 1.6			102	1.5	EF
	SVTO	01	1210	1213	1237	N07	W16	7218	06	30.3	27	SF	C 1.6	3	E	64		
	KANZ	01	1212	1216	1239	N07	W16	7218	06	30.3	27	SF		2	C			
	ONDR	01	1220E	1220U	1224U	N07	W13	7218	06	30.5	4U	SN			P	1220	1.5	EF
0009		01	12577	13074	1340	N14	E50	7216	07	5.3	43	SF	C 1.9			50		F
	SVTO	01	1257	1311	1339	N15	E48	7216	07	5.2	42	SF	C 1.9	3	E	62		F
	KANZ	01	1303	1311	1315D	N15	E50	7216	07	5.3	12D	SF		2	C			
	RAMY	01	1304	1307	1341	N13	E50	7216	07	5.3	37	SF		3	E	33		F
	HOLL	01	1305E	1310U	1345D	N14	E51	7216	07	5.4	40D	SN		2	E	54		F
0010		01	1637	16396	1655	N07	W18	7218	06	30.3	18	SF	C 1.2			31		F
	RAMY	01	1637	1639	1653	N07	W19	7218	06	30.3	16	SF		3	E	16		F
	HOLL	01	1637	1642	1703	N07	W19	7218	06	30.3	26	SF	C 1.2	3	E	47		F
	SVTO	01	1637	1645	1649	N07	W17	7218	06	30.4	12	SF		3	E	30		
0011		01	1720	17235	1737	N15	E48	7216	07	5.3	17	SF	B 9.0			18		F
	RAMY	01	1720	1723	1737	N14	E48	7216	07	5.3	17	SF	B 9.0	3	E	14		F
	HOLL	01	1720	1728	1752D	N16	E48	7216	07	5.4	32D	SF		2	E	22		F
0012		01	20143	20143	2025	N08	W21	7218	06	30.3	11	SF	B 5.7			60		F
	HOLL	01	2014	2014	2025	N07	W21	7218	06	30.3	11	SF	B 5.7	3	E	62		F
	PALE	01	2017	2017	2028D	N08	W21	7218	06	30.3	11D	SF		2	E	57		
0013	HOLL	01	2200	2201	2237	N16	E49	7216	07	5.6	37	SF	B 6.8	3	E	23		F
		01	2216		2231	No Flare Patrol												
0014	HOLL	01	2219	2230	2303	N07	W21	7218	06	30.3	44	SF	C 1.1	3	E	79		
		01	2245		2253	No Flare Patrol												
		01	2255		2305	No Flare Patrol												
		01	2347		2400	No Flare Patrol												
		02	0000		0000	No Flare Patrol												
0015	ONDR	02	0628	0633	0645U	N08	W22	7218	06	30.6	17U	SN			P	0633	1.3	E
0016	KANZ	02	0847	0847	0851	N20	E53	7216	07	6.4	4	SF		2	C			
0017		02	09022	09091	0929	N10	E41	7216	07	5.4	27	SF	C 1.1			62	0.8	F
	SVTO	02	0902	0909	0940D	N11	E41	7216	07	5.5	38D	SF	C 1.1	3	E	65		F
	HTPR	02	0902	0910	0932D	N08	E42	7216	07	5.5	30D	SN			C	0910	0.8	
	KANZ	02	0904	0909	0929	N10	E41	7216	07	5.4	25	SF		2	C			

H α SOLAR FLARES5
Jul 92

JULY 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0018	KANZ	02	1037	1041	1053	N17	E39	7216	07	5.4	16	SF		2	C				
0019		02	14201	1422	1440	N14	E35	7216	07	5.2	20	SF C 1.0					37		F
	HOLL	02	1420	1422	1442	N14	E35	7216	07	5.2	22	SF C 1.0	3	E			43		F
	RAMY	02	1421	1422	1439	N14	E35	7216	07	5.2	18	SF C 1.0	4	E			31		F
0020		02	14371	1439	1445	N20	E52	7216	07	6.6	8	SF					25		
	HOLL	02	1437	1439	1445	N19	E53	7216	07	6.6	8	SF		3	E		30		
	SVTO	02	1438	1439	1445	N20	E52	7216	07	6.6	7	SF		3	E		20		
0021	RAMY	02	1630	1635	1640	N14	E37	7216	07	5.5	10	SF		3	E		28		
0022		02	17147	17235	1734	N15	E36	7216	07	5.4	20	SF C 1.0					38		F
	HOLL	02	1714	1728	1734	N15	E36	7216	07	5.4	20	SF		2	E		39		F
	RAMY	02	1721	1723	1735	N15	E37	7216	07	5.5	14	SF C 1.0	3	E			38		F
0023	HOLL	02	2006	2006	2012	N12	E31	7216	07	5.2	6	SF		3	E		22		
0024	HOLL	02	2054	2054	2104	N08	W35	7218	06	30.2	10	SF		3	E		12		
		02	2312		2400	No Flare Patrol													
		03	0000		0001	No Flare Patrol													
0025	ONDR	03	0725	0728	0751U	N06	W37	7218	06	30.5	26U	SF			P	0728	49	0.6	E
0026		03	09032	0905	0912	N16	E30	7216	07	5.6	9	SF					99	1.2	EI
	HTPR	03	0903	0905	0925D	N15	E28	7216	07	5.5	22D	SF			C	0905	120	1.4	E
	ONDR	03	0904E	0904U	0907	N16	E32	7216	07	5.8	3D	SF			P	0904	78	1.0	EI
	KANZ	03	0905	0905	0917	N18	E30	7216	07	5.7	12	SF		2	C				
0027		03	0937*	0950*	1058	N14	E25	7216	07	5.3	81	1N					366	4.2	DEFHZ
	KANZ	03	0937	0957	1136	N13	E25	7216	07	5.3	119	2N		2	C				
	HTPR	03	0940	0950	1125	N14	E27	7216	07	5.4	105	1B			C	0950	380	4.4	FH
	KAND	03	1000E		1035D	N13	E28	7216	07	5.5	35D	1B			P	1002	353	4.1	FZ
	HURB	03	1013	1016	1025	N12	E27	7216	07	5.4	12	1N			V				E
	HURB	03	1015	1017	1028	N17	E17	7216	07	4.7	13	1N			V				D
0028	HTPR	03	1327		1355	N07	W90		06	26.9	28	SB			C				
0029		03	14204	14224	1451	N16	E27	7216	07	5.6	31	SF					46	0.7	FH
	HTPR	03	1420	1422	1440	N15	E25	7216	07	5.5	20	SN			C	1422	50	0.7	
	RAMY	03	1421	1426	1510	N16	E27	7216	07	5.6	49	SF		3	E		43		FH
	KANZ	03	1424	1424	1444	N16	E28	7216	07	5.7	20	SF		2	C				
0030	PALE	03	2134	2136	2139	N16	E23	7216	07	5.6	5	SF		3	E		15		
0031	PALE	03	2222	2228	2247	N15	E23	7216	07	5.7	25	SF		3	E		14		
		03	2258		2305	No Flare Patrol													
		03	2327		2336	No Flare Patrol													
		03	2338		2349	No Flare Patrol													
		03	2351		2400	No Flare Patrol													
		04	0000		0008	No Flare Patrol													
		04	0010		0014	No Flare Patrol													
0032	SVTO	04	1227	1236	1256	N16	E14	7216	07	5.6	29	SF		3	E		22		F
0033		04	14021	14034	1421	N14	E10	7216	07	5.3	19	SF C 2.2					16		F
	SVTO	04	1402	1407	1425	N14	E09	7216	07	5.3	23	SF C 2.2	3	E			14		F
	HOLL	04	1403	1403	1417	N14	E10	7216	07	5.3	14	SF		3	E		17		
0034		04	15352	15412	1604	N14	E08	7216	07	5.2	29	SF					17		F
	RAMY	04	1535	1543	1619	N14	E08	7216	07	5.2	44	SF		3	E		23		F
	SVTO	04	1537	1541	1548	N14	E08	7216	07	5.2	11	SF		3	E		11		F
0035	PALE	04	1755	1756	1758	N17	E06	7216	07	5.2	3	SF		3	E		73		
0036	PALE	04	2147	2147	2154	N14	E06	7216	07	5.4	7	SF		3	E		12		

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Jul 92

H α SOLAR FLARES

JULY 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0037	TACH	05	0425E	0443U	0503D	N17	E43		07	8.4	38D	1B		3	C	0443	163	2.3	EG
0038	ABST	05	0626	0627	0650	S14	E90	7220	07	12.1	24	1F			C	0627	87		AD
0039	SVTO	05	1022	1033	1037	S10	E77	7220	07	11.2	15	SF C	1.4	3	E		17		
0040	SVTO	05	1056	1100	1102	S10	E77	7220	07	11.2	6	SF C	2.0	3	E		16		
0041	SVTO	05	1119	1122	1126	N05	W71	7218	06	30.2	7	SF		3	E		18		
0042		05	11412	1154*	1234	S11	E82	7220	07	11.6	53	SF C	4.1				60		
	SVTO	05	1141	1204	1231	S11	E84	7220	07	11.8	50	SF C	4.1	3	E		60		
	RAMY	05	1143	1154	1238	S11	E80	7220	07	11.5	55	SF		3	E		60		
0043		05	12584	12593	1308	S12	E86	7220	07	12.0	10	SF					26		F
	RAMY	05	1258	1259	1305	S12	E89	7220	07	12.2	7	SF		3	E		17		F
	SVTO	05	1302	1302	1310	S11	E83	7220	07	11.8	8	SF		3	E		34		
0044		05	1400*	1405*	1442	S12	E82	7220	07	11.8	42	SF C	7.9				34		F
	SVTO	05	1400	1445	1457	S12	E87	7220	07	12.1	57	SF C	7.9	3	E		48		F
	RAMY	05	1404	1405	1411	S12	E79	7220	07	11.5	7	SF		3	E		11		
	RAMY	05	1412	1446	1457	S12	E79	7220	07	11.5	45	SF		3	E		43		F
0045	SVTO	05	1521	1525	1535	S10	E81	7220	07	11.7	14	SF C	6.2	3	E		17		F
0046	HOLL	05	1726	1756	1839	S12	E83	7220	07	12.0	73	SF		3	E		46		F
0047		05	19581	20001	2010	S13	E80	7220	07	11.9	12	1N M	1.1				126		EF
	HOLL	05	1958	2001	2013	S13	E81	7220	07	11.9	15	1N M	1.1	3	E		154		E
	RAMY	05	1959	2000	2008	S13	E79	7220	07	11.8	9	SN		3	E		97		FE
0048	HOLL	05	2023	2024	2033	N13	W02	7216	07	5.7	10	SF		3	E		12		
0049	PALE	05	2105	2116	2124	S10	E80	7220	07	11.9	19	SF		3	E		40		F
0050	PALE	05	2137	2137	2146D	S10	E82	7220	07	12.1	9D	SF C	3.6	3	E		27		
0051	HOLL	05	2144	2145	2151	N13	W03	7216	07	5.7	7	SF		3	E		13		
0052	HOLL	05	2210	2213	2228	S12	E78	7220	07	11.8	18	SF M	1.9	3	E		33		F
0053	HOLL	05	2220	2221	2301	N16	W07	7216	07	5.4	41	SF		3	E		36		F
0054	PALE	05	2248	2249	2306	S10	E82	7220	07	12.1	18	SF		2	E		25		
0055		05	23372	2339	2352	S10	E81	7220	07	12.1	15	SN M	1.4				107		EJT
	VORO	05	2337	2339	2352	S10	E79	7220	07	11.9	15	SF		2	C	2339	54		EJT
	PALE	05	2339	2340U	2340D	S09	E85	7220	07	12.4	1D	1B M	1.4	3	E		218		
	HOLL	05	2339E	2344U	2347D	S11	E80	7220	07	12.0	8D	SF		1	E		50		
0056	HOLL	06	0019E	0019U	0029	N14	W07	7216	07	5.5	10D	SF		2	E		41		
0057	HOLL	06	0033	0035	0044D	N14	W08	7216	07	5.4	11D	SF		2	E		17		
0058		06	01462	01484	0202	S13	E80	7220	07	12.1	16	1F M	3.9				128		DEFHJT
	VORO	06	0146	0148	0209D	S13	E79	7220	07	12.0	23D	1F		2	C	0148	90		EJTH
	LEAR	06	0147	0150	0205	S12	E79	7220	07	12.0	18	1F M	3.9	3	E		140		
	WATU	06	0147	0152	0200	S13	E82	7220	07	12.3	13	SF			C	0152	40		D
	PALE	06	0148	0148	0158D	S12	E77	7220	07	11.9	10D	1F		3	E		187		F
	HOLL	06	0155E	0157U	0158D	S14	E82	7220	07	12.3	3D	1F		1	E		184		F
0059		06	0336	0337E	0350	N16	W10	7216	07	5.4	14	SN C	2.5				52	0.4	EF
	LEAR	06	0336	0337	0404	N15	W11	7216	07	5.3	28	SF C	2.5	3	E		65		F
	WATU	06	0337E	0343	0337	N16	W10	7216	07	5.4	28D	SN			P	0337	40	0.4	E
0060	WATU	06	0518	0519	0520	S13	E73	7220	07	11.7	2	SF			C	0519	20		D
0061	ABST	06	0542	0545	0550U	S14	E80	7220	07	12.3	8U	1N			C	0545	87		D

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0062	KANZ	06	0616E	0616U	0624	S09	E74	7220	07	11.8	80	SF		2	C				
0063	KANZ	06	0644	0644	0648	S12	E72	7220	07	11.7	4	SF		2	C				
0064	SVTO	06	1236	1238	1305D	S10	E70	7220	07	11.8	290	SF		2	E		17		
0065	SVTO	06	1342	1346	1409	S10	E69	7220	07	11.7	27	SF		3	E		16		F
0066		06	15008	15081	1518	N14	W16	7216	07	5.4	18	SF					16		F
	HOLL	06	1500	1508	1519	N15	W14	7216	07	5.6	19	SF		3	E		21		F
	RAMY	06	1508	1509	1516	N14	W17	7216	07	5.3	8	SF		3	E		10		
0067		06	16524	16582	1725	N14	W16	7216	07	5.5	33	SF	C 4.4				42		F
	HOLL	06	1652	1700	1732	N14	W16	7216	07	5.5	40	SF	C 4.4	3	E		49		F
	RAMY	06	1654	1659	1718	N15	W16	7216	07	5.5	24	SF		3	E		39		F
	PALE	06	1656	1658	1714D	N13	W16	7216	07	5.5	180	SF		3	E		37		F
0068		06	19151	1918*	1930	S11	E66	7220	07	11.8	15	SN	C 2.0				34		K
	RAMY	06	1915	1918	1927	S12	E66	7220	07	11.8	12	SF	C 2.0	3	E		31		
	HOLL	06	1916	1918	1935	S11	E65	7220	07	11.7	19	SB			E		50		K
	PALE	06	1916	1920	1921	S11	E66	7220	07	11.8	5	SF		3	E		29		
	HOLL	06	1916	1930	1935	S11	E65	7220	07	11.7	19	SF		3	E		27		
0069		06	2005	2008*	2027	S11	E67	7220	07	11.9	22	SF	C 2.5				33		FK
	PALE	06	2005	2008	2027	S11	E67	7220	07	11.9	22	SF			E		44		K
	PALE	06	2005	2022	2027	S11	E67	7220	07	11.9	22	SF	C 2.5	3	E		22		F
0070	HOLL	06	2109	2112	2117	N15	W15	7216	07	5.7	8	SF		3	E		21		
		06	2303		2306	No Flare Patrol													
		06	2308		2346	No Flare Patrol													
		06	2348		2400	No Flare Patrol													
		07	0000		0007	No Flare Patrol													
0071	WATU	07	0304	0310	0310D	S13	E87	7222	07	13.7	60	SF			P	0310	20		D
0072	PALE	07	0329E	0337U	0433D	S11	E80	7222	07	13.2	640	SF	C 3.0	2	E		33		
0073	ABST	07	0608	0612	0620U	S12	E80	7222	07	13.3	120	1F			C	0612	87		D
0074	ABST	07	0608	0612	0620	S12	E60	7220	07	11.8	12	SN			C	0612	87	1.9	D
0075	ISTA	07	0652		0711	S10	E73	7222	07	12.8	19	SF			P				D
0076		07	06528	0712	0711	S12	E60	7220	07	11.8	19	SN					62	1.3	D
	ISTA	07	0652		0711	S11	E59	7220	07	11.7	19	SF			P				D
	KAND	07	0700	0712	0722D	S12	E60	7220	07	11.8	220	SN			P	0712	62	1.3	D
0077	ISTA	07	0813		0816	S09	E60	7220	07	11.8	3	1N			P				E
0078	KAND	07	0835	0841	0905	N15	W27	7216	07	5.3	30	SN			P	0841	42	0.5	E
0079	KAND	07	1019E		1105D	S12	E60	7220	07	11.9	460	1N			P	1019	104	2.2	D
0080	RAMY	07	1120E	1130U	1230	S11	E57	7220	07	11.8	700	SB	M 4.1	2	E		64		F
0081	KAND	07	1225E		1245	S12	E56	7220	07	11.7	200	1B			P	1225	125	2.4	E
0082		07	1305*	1310*	1348	S05	E36	7219	07	10.2	43	SF					48	0.8	EF GK
	KAND	07	1305	1310	1320	S04	E40	7219	07	10.5	15	SN			P	1310	62	0.8	EG
	RAMY	07	1305	1333	1406	S07	E31	7219	07	9.9	61	SF		3	E		66		F
	HOLL	07	1307	1312	1326	S03	E40	7219	07	10.5	19	SF		2	E		34		F
	HOLL	07	1331	1334	1403	S04	E37	7219	07	10.3	32	SF		3	E		27		F
	HOLL	07	1331	1347	1403	S04	E37	7219	07	10.3	32	SF			E		54		K
	KANZ	07	1349E		1353D	S05	E34	7219	07	10.1	40	SF		2	C				
	SVTO	07	1357	1359	1414D	S06	E34	7219	07	10.1	170	SF		2	E		45		F
0083		07	14041	14091	1414	S11	E72	7222	07	13.0	10	SF					37		
	RAMY	07	1404	1410	1414	S11	E71	7222	07	12.9	10	SF		3	E		55		
	HOLL	07	1405	1409	1415	S11	E72	7222	07	13.0	10	SF		3	E		19		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0084		07	14312	1434	1445	S12	E74	7222	07 13.2	14	SF C 2.9				58		
	HOLL	07	1431	1434	1447	S12	E75	7222	07 13.2	16	SF C 2.9	3	E		50		
	RAMY	07	1433	1434	1443	S13	E72	7222	07 13.0	10	SF	3	E		67		
0085		07	14313	1438*	1449	S11	E54	7220	07 11.7	18	SF				22		F
	RAMY	07	1431	1451	1453	S11	E52	7220	07 11.5	22	SF	3	E		26		
	HOLL	07	1434	1438	1445	S11	E56	7220	07 11.8	11	SF	3	E		17		F
0086	RAMY	07	1512	1521	1532	S11	E51	7220	07 11.5	20	SF	3	E		22		
0087		07	1542*	1607*	1652	S11	E54	7220	07 11.7	70	SF C 3.8				28		F
	HOLL	07	1542	1607	1644	S11	E56	7220	07 11.9	62	SN	3	E		27		
	RAMY	07	1542	1607	1646	S11	E54	7220	07 11.7	64	SF C 3.8	3	E		46		F
	PALE	07	1639E	1639U	1655	S11	E54	7220	07 11.7	160	SF	3	E		25		
	RAMY	07	1653	1653	1705	S12	E53	7220	07 11.7	12	SF	3	E		13		
0088		07	17149	17185	1731	S12	E56	7220	07 11.9	17	SF				20		F
	RAMY	07	1714	1718	1732	S12	E56	7220	07 11.9	18	SF	3	E		22		
	HOLL	07	1723	1723	1730	S11	E55	7220	07 11.9	7	SF	3	E		17		F
0089		07	1734	1737	1754	S12	E54	7220	07 11.8	20	SN C 2.6				26		EF
	HOLL	07	1734	1737	1753	S11	E54	7220	07 11.8	19	SN	3	E		33		FE
	RAMY	07	1734	1737	1756	S12	E54	7220	07 11.8	22	SF C 2.6	3	E		19		
0090		07	17553	18021	1810	S11	E54	7220	07 11.8	15	SF C 2.5				17		F
	HOLL	07	1755	1802	1812	S11	E54	7220	07 11.8	17	SF	3	E		16		F
	PALE	07	1758	1803	1809	S11	E55	7220	07 11.9	11	SF C 2.5	4	E		18		F
0091		07	18011	1805	1824	S11	E71	7222	07 13.1	23	SF				26		
	HOLL	07	1801	1805	1840	S11	E70	7222	07 13.0	39	SF	3	E		24		
	PALE	07	1802	1805	1809	S11	E72	7222	07 13.2	7	SF	4	E		27		
0092		07	1815	1822	1832	S10	E54	7220	07 11.8	17	SF				30		F
	PALE	07	1815	1822	1830	S10	E54	7220	07 11.8	15	SF	4	E		16		F
	RAMY	07	1815	1822	1833	S11	E53	7220	07 11.7	18	SF	3	E		43		F
0093		07	19222	19296	1950	S11	E53	7220	07 11.8	28	SF C 3.0				22		EF
	RAMY	07	1922	1935	1951	S11	E52	7220	07 11.7	29	SF C 3.0	3	E		30		
	HOLL	07	1924	1929	1949	S11	E53	7220	07 11.8	25	SF	3	E		21		FE
	PALE	07	1930E	1930U	1944D	S10	E54	7220	07 11.9	14D	SF	3	E		16		F
0094		07	1927	19271	2018	N15	W31	7216	07 5.5	51	SF C 2.2				61		EF
	HOLL	07	1927	1927	2027	N15	W32	7216	07 5.4	60	SN C 2.2	3	E		64		FE
	RAMY	07	1927	1928	2008	N15	W31	7216	07 5.5	41	SF	3	E		47		F
	PALE	07	1930E	1930U	2012D	N16	W31	7216	07 5.5	42D	SF	3	E		71		F
0095		07	2156	2157	2210	S10	E50	7220	07 11.7	14	SF C 1.9				24		F
	HOLL	07	2156	2157	2211	S11	E50	7220	07 11.7	15	SF C 1.9	3	E		25		F
	PALE	07	2203E	2203U	2208	S10	E51	7220	07 11.7	5D	SF	3	E		23		F
0096		07	2232	2232	2240	S10	E51	7220	07 11.8	8	SF C 2.2				18		EF
	PALE	07	2232	2232	2236	S10	E51	7220	07 11.8	4	SF	3	E		20		F
	HOLL	07	2232	2232	2243	S11	E51	7220	07 11.8	11	SF C 2.2	3	E		17		E
0097		07	23324	23336	2343	S12	E52	7220	07 11.9	11	SF				36	0.8	EFIJ
	VORO	07	2332	2333	2339	S12	E52	7220	07 11.9	7	SF	2	C	2333	45	0.8	EIJ
	PALE	07	2336	2339	2347	S12	E52	7220	07 11.9	11	SF	3	E		28		F
0098		07	2350*	2401*	2600	S11	E50	7220	07 11.7	130	SN C 3.4				77	1.3	DEFT
	PALE	07	2350	2611	2721	S10	E49	7220	07 11.7	211	1N	3	E		134		FET
	HOLL	07	2354	2401	2418	S10	E53	7220	07 12.0	24	SF C 3.4	3	E		20		FE
	MITK	08	0107	0107	0111	S12	E49	7220	07 11.7	4	SN		C	0107	35	0.6	D
	MITK	08	0115	0124	0128	S12	E50	7220	07 11.8	13	SN		C	0124	85	1.4	D
	MITK	08	0129	0211	0344	S12	E48	7220	07 11.7	135	SB		C	0211	113	1.8	E
0099		08	0348	0355	0416	S12	E48	7220	07 11.8	28	SN				60	0.7	EF
	MITK	08	0348	0355	0416	S12	E48	7220	07 11.8	28	SN		C	0355	42	0.7	E
	PALE	08	0401E	0401U	0436D	S12	E47	7220	07 11.7	35D	SF	3	E		77		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0100		08	0444*	05147	0524	S12	E46	7220	07	11.7	40	SB					79	1.2	DE
	MITK	08	0444	0521	0523	S12	E46	7220	07	11.7	39	SB			C	0521	71	1.1	E
	ABST	08	0511	0514	0525	S11	E45	7220	07	11.6	14	SN			C	0514	87	1.3	D
0101	MITK	08	0550	0557	0601	S12	E46	7220	07	11.7	11	SN			C	0557	21	0.3	D
0102		08	0611*	0630*	0659	S11	E50	7220	07	12.0	48	SF	C 1.7				11		EFH
	SVTO	08	0611	0655	0714	S11	E47	7220	07	11.8	63	SF	C 1.7	3	E		11		FH
	HURB	08	0628	0630	0642	S13	E55	7220	07	12.4	14	1F			V				E
	KANZ	08	0649E		0701	S10	E47	7220	07	11.8	12D	SF		2	C				
0103	SVTO	08	0731	0737	0745	S11	E42	7220	07	11.5	14	SF		3	E		17		
0104	SVTO	08	0802	0804	0810	S13	E66	7222	07	13.3	8	SF		3	E		12		
0105	ONDR	08	0817	0821	0832U	S11	E64	7222	07	13.2	15U	SF			P	0821	63	1.6	E
0106	SVTO	08	0822	0830	0841	S11	E47	7220	07	11.9	19	SF		3	E		14		F
0107		08	0915*	0922*	1022	S12	E46	7220	07	11.8	67	1N	X 1.2				133	2.4	EFIKZ
	ISTA	08	0915		1015	S12	E47	7220	07	11.9	60	1N			P				FK
	ONDR	08	0920	0922	0926	S11	E43	7220	07	11.6	6	SF			P	0922	71	1.0	EI
	SVTO	08	0945	0948	1042	S11	E46	7220	07	11.9	57	1B	X 1.2	3	E		174		FE
	KAND	08	1000E		1035	S13	E47	7220	07	12.0	35D	2B			P	1000	333	5.2	FZ
	ONDR	08	1014E	1014U	1101U	S13	E44	7220	07	11.7	47U	SF			P	1014	74	1.1	EKI
	SVTO	08	1043	1045	1053	S12	E48	7220	07	12.1	10	SF		3	E		14		F
0108	SVTO	08	1016	1018	1023	S10	E64	7222	07	13.2	7	SF		3	E		14		
0109		08	11202	11221	1137	S12	E44	7220	07	11.8	17	SF	C 2.8				34	0.8	DEFI
	SVTO	08	1120	1122	1137	S11	E45	7220	07	11.8	17	SF	C 2.8	3	E		19		FE
	ONDR	08	1122	1123	1146U	S13	E44	7220	07	11.8	24U	SF			P	1123	49	0.8	DI
0110		08	12037	12073	1215	S11	E42	7220	07	11.7	12	SF					13		DFH
	HURB	08	1203	1207	1216	S12	E40	7220	07	11.5	13	1F			V				D
	SVTO	08	1208	1209	1215	S11	E43	7220	07	11.7	7	SF		3	E		13		FH
	KANZ	08	1210	1210	1214	S11	E43	7220	07	11.7	4	SF		2	C				
0111		08	12082	12142	1222	N14	W42	7216	07	5.3	14	SF					25		F
	SVTO	08	1208	1216	1222	N14	W45	7216	07	5.1	14	SF		3	E		25		F
	KANZ	08	1210	1214	1223	N14	W39	7216	07	5.5	13	SF		2	C				
0112		08	1243*	1245*	1306	S12	E43	7220	07	11.8	23	SF					33	0.7	DFI
	HOLL	08	1243	1245	1306	S11	E43	7220	07	11.8	23	SF		2	E		20		F
	ONDR	08	1258	1300	1306	S12	E43	7220	07	11.8	8	SF			P	1300	46	0.7	DI
0113		08	1407*	1408*	1453	S10	E43	7220	07	11.8	46	SF	C 2.4				49	0.6	DEFIK
	ONDR	08	1407	1408	1414	S11	E42	7220	07	11.7	7	SF			P	1408	42	0.6	DI
	HOLL	08	1414	1415	1505	S10	E43	7220	07	11.8	51	SN	C 2.4	4	E		45		FE
	HOLL	08	1414	1500	1505	S10	E43	7220	07	11.8	51	SN			E		81		K
	SVTO	08	1415	1423	1443	S10	E41	7220	07	11.7	28	SF		3	E		34		F
	KANZ	08	1417	1417	1453	S10	E41	7220	07	11.7	36	SN		2	C				
	KANZ	08	1457	1501	1505	S10	E45	7220	07	12.0	8	SF		2	C				
	SVTO	08	1458	1501	1507	S10	E45	7220	07	12.0	9	SF	C 1.9	3	E		42		F
0114	HOLL	08	1423	1423	1428	S11	E64	7222	07	13.4	5	SF	C 2.7	3	E		13		H
0115	SVTO	08	1522	1522	1528	S09	E44	7220	07	11.9	6	SF	C 1.8	3	E		22		F
		08	1610		1639	No Flare Patrol													
0116	HOLL	08	1630	1631	1640	S11	E63	7222	07	13.4	10	SF	C 3.6	4	E		31		H
		08	1723		2143	No Flare Patrol													
0117	HOLL	08	1859	1908	1927	N13	W46	7216	07	5.3	28	SF		3	E		26		F
0118	HOLL	08	1937	1945	1954	N14	W47	7216	07	5.3	17	SF		3	E		21		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0119	HOLL	08	2131	2132	2146	S09	E43	7220	07 12.1	15	SF C 1.9	3 E		14		F
0120	PALE	08	2150E	2150U	2218D	S10	E41	7220	07 12.0	28D	SF	2 E		46		
0121	HOLL	08	2254	2256	2300	S11	E51	7222	07 12.8	6	SF	3 E		12		
0122		09	02582	03033	0317	S12	E44	7220	07 12.4	19	1B			118	1.8	E
	MITK	09	0258	0306	0326	S12	E44	7220	07 12.4	28	1B	C	0306	176	2.6	E
	WATU	09	0300	0303	0308	S12	E43	7220	07 12.4	8	SN	C	0303	60	0.9	E
0123		09	03505	03563	0408	S10	E37	7220	07 11.9	18	SN			53	0.7	DE
	MITK	09	0350	0359	0416	S10	E37	7220	07 11.9	26	SB	C	0359	92	1.2	E
	WATU	09	0353	0356	0400	S10	E37	7220	07 11.9	7	SF	C	0356	20	0.3	D
	TACH	09	0355	0359U	0416D	S09	E38	7220	07 12.0	21D	SB	3 C	0359	46	0.6	E
0124		09	0512*	0549*	0639	S11	E36	7220	07 11.9	87	SF			52	1.7	DEFIK
	ONDR	09	0508E	0508U	0612	S11	E39	7220	07 12.1	64D	SN	P	0508	123	1.7	EIK
	SVTO	09	0512	0549	0601D	S10	E37	7220	07 12.0	49D	SF	2 E		27		F
	SVTO	09	0512	0621	0658	S11	E35	7220	07 11.8	106	SF	3 E		28		F
	LEAR	09	0603E	0605U	0622	S11	E35	7220	07 11.9	19D	SF	3 E		32		
	HURB	09	0603	0605	0704	S12	E33	7220	07 11.7	61	1N	V				DK
0125		09	0741	0741	0747	S09	E38	7220	07 12.2	6	SF C 1.6			11		F
	SVTO	09	0741	0741	0746	S10	E39	7220	07 12.2	5	SF C 1.6	3 E		11		F
	KANZ	09	0741	0741U	0748	S08	E37	7220	07 12.1	7	SF	2 C				
0126		09	0828	0829	0838	S12	E32	7220	07 11.8	10	SF C 1.8			50	1.1	EFI
	ONDR	09	0828E	0828U	0839	S12	E32	7220	07 11.8	11D	SF	P	0828	85	1.1	EI
	SVTO	09	0828	0829	0837	S11	E32	7220	07 11.8	9	SF C 1.8	3 E		14		F
0127	ONDR	09	0909	0911	0913	S11	E34	7220	07 11.9	4	SF	P	0911	71	0.9	DI
0128		09	0931	09373	0946	N14	W55	7216	07 5.2	15	SF C 1.7			70	2.3	DF
	KANZ	09	0931	0937	0946D	N14	W52	7216	07 5.5	15D	SF	2 C				
	SVTO	09	0931	0940	0948	N14	W54	7216	07 5.3	17	SF C 1.7	3 E		25		F
	ONDR	09	0936E	0936U	0944	N14	W59	7216	07 4.9	8D	1N	P	0936	116	2.3	D
0129		09	10292	10292	1038	S10	E37	7220	07 12.2	9	SF			15		
	SVTO	09	1029	1029	1037	S10	E37	7220	07 12.2	8	SF	3 E		15		
	KANZ	09	1031	1031	1039	S09	E37	7220	07 12.2	8	SF	2 C				
0130		09	12234	1225	1238	S09	E32	7220	07 11.9	15	SN			64	1.3	EFI
	SVTO	09	1223	1225	1232	S09	E31	7220	07 11.8	9	SF	3 E		23		
	ONDR	09	1227	1231U	1244	S09	E32	7220	07 11.9	17	SN	P	1231	106	1.3	EFI
0131		09	13502	13521	1404	S10	E30	7220	07 11.8	14	SF C 1.6			19		EF
	HOLL	09	1350	1352	1409	S11	E31	7220	07 11.9	19	SF C 1.6	3 E		23		FE
	SVTO	09	1352	1353	1400	S10	E30	7220	07 11.8	8	SF	3 E		15		F
0132	SVTO	09	1351	1357	1401	S24	E60	7226	07 14.2	10	SF	3 E		16		
0133	HOLL	09	1406	1417	1448	S24	E59	7226	07 14.1	42	SF	3 E		20		F
0134		09	15341	15351	1544	S10	E28	7220	07 11.7	10	SF			13		F
	HOLL	09	1534	1536	1543	S11	E27	7220	07 11.7	9	SF	3 E		13		F
	SVTO	09	1535	1535	1545	S10	E29	7220	07 11.8	10	SF	3 E		13		
0135		09	16031	16087	1628	S12	E30	7220	07 11.9	25	SF C 3.1			33		EF
	HOLL	09	1603	1608	1628	S12	E29	7220	07 11.8	25	SF	3 E		45		FE
	SVTO	09	1604	1615	1628	S11	E30	7220	07 11.9	24	SF C 3.1	3 E		21		F
0136		09	16351	16471	1726	S13	E28	7220	07 11.8	51	2N M 6.7			189		EF
	HOLL	09	1635	1647	1749	S13	E28	7220	07 11.8	74	2B M 6.7	3 E		285		FE
	RAMY	09	1636	1648	1703	S13	E28	7220	07 11.8	27	2N	3 E		249		FE
	SVTO	09	1657E	1700U	1722D	S12	E29	7220	07 11.9	25D	SF	1 E		32		F
		09	2020		2112	No Flare Patrol										
	09	2207		2212	No Flare Patrol											
	09	2214		2239	No Flare Patrol											
	09	2241		2248	No Flare Patrol											

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement Time (UT) (10-6 Disk) (Sq Deg)	Corr (Sq Deg)	Remarks
			09 2250		2259			No Flare Patrol							
			09 2310		2325			No Flare Patrol							
0137	ISTA	10	0720E		0740D	S12	E20	7220	07 11.8	20D	1N	P			BF
0138	KHAR	10	0815U		0830U	N09	E90	7227	07 17.1	15U	SF	2 V			
0139		10	09409	0950	1002	S10	E37	7222	07 13.2	22	SN C 1.9		128	1.8	DEFHI
	KHAR	10	0940		0949	S09	E37	7222	07 13.2	9	SF	2 V	0940		DH
	SVTO	10	0941E	0951U	1124D	S08	E37	7222	07 13.2	103D	1N C 1.9	1 E		125	F
	KHAR	10	0949	0950	1015	S12	E37	7222	07 13.2	26	SN	2 V	0950		EH
	ONDR	10	0951E	0951U	1004U	S12	E38	7222	07 13.3	13U	SN	P	0951	130	1.8 EI
0140	RAMY	10	1147	1147	1244	S13	E19	7220	07 11.9	57	SF	3 E		18	
0141	RAMY	10	1147	1223	1245	S13	E38	7222	07 13.3	58	SF	3 E		18	
0142	SVTO	10	1258	1259	1312	S08	E33	7222	07 13.0	14	SF	3 E		11	
0143		10	13474	13475	1400	S05	W03	7219	07 10.3	13	SF			12	F
	RAMY	10	1347	1347	1400	S05	W03	7219	07 10.3	13	SF	3 E		14	F
	SVTO	10	1351	1352	1400	S05	W03	7219	07 10.3	9	SF	3 E		10	F
0144	RAMY	10	1349	1353	1355	S12	W28	7224	07 8.5	6	SF	3 E		19	F
0145		10	14185	14241	1500	S06	W03	7219	07 10.4	42	SF			17	F
	RAMY	10	1418	1424	1500	S06	W02	7219	07 10.4	42	SF	3 E		19	
	SVTO	10	1423	1425	1500	S06	W04	7219	07 10.3	37	SF	3 E		15	F
0146	RAMY	10	1515	1516	1527	S11	W26	7224	07 8.7	12	SF	3 E		26	F
0147		10	16173	16233	1644	S12	E34	7222	07 13.2	27	SF C 1.6			36	EF
	SVTO	10	1617	1625	1644	S12	E34	7222	07 13.2	27	SF	3 E		41	FE
	HOLL	10	1620	1623	1639	S12	E32	7222	07 13.1	19	SF	3 E		42	F
	RAMY	10	1620	1626	1649	S12	E34	7222	07 13.2	29	SF C 1.6	3 E		25	
	KANZ	10	1625E	1625U	1630D	S11	E34	7222	07 13.2	5D	SF	2 C			
0148	HOLL	10	1650	1650	1712	S12	W29	7224	07 8.5	22	SF	3 E		13	F
0149		10	1752	1752	1809	S10	E15	7220	07 11.9	17	SF C 1.2			14	F
	HOLL	10	1752	1752	1809	S11	E14	7220	07 11.8	17	SF	3 E		12	F
	PALE	10	1752	1752	1809	S09	E16	7220	07 11.9	17	SF C 1.2	3 E		16	F
0150		10	1847*	19051	1916	S12	E15	7220	07 11.9	29	SF C 1.9			20	F
	HOLL	10	1847	1906	1924	S13	E15	7220	07 11.9	37	SF C 1.9	3 E		28	F
	PALE	10	1859	1905	1909	S11	E15	7220	07 11.9	10	SF	3 E		12	
0151		10	19081	19091	1919	N15	W74	7216	07 5.2	11	SF			14	
	HOLL	10	1908	1909	1922	N15	W74	7216	07 5.2	14	SF	3 E		14	
	PALE	10	1909	1910	1916	N15	W73	7216	07 5.3	7	SF	3 E		14	
0152		10	19482	19553	2012	S12	E32	7222	07 13.2	24	SF C 2.0			24	F
	HOLL	10	1948	1958	2015	S12	E32	7222	07 13.2	27	SF	3 E		36	F
	PALE	10	1950	1955	2010	S11	E33	7222	07 13.3	20	SF C 2.0	3 E		13	
0153		10	20281	2030	2040	S11	E13	7220	07 11.8	12	SF C 2.7			27	EF
	HOLL	10	2028	2030	2041	S11	E12	7220	07 11.7	13	SN	3 E		29	FE
	RAMY	10	2029	2030	2038	S11	E13	7220	07 11.8	9	SF C 2.7	3 E		20	
	PALE	10	2031E	2031U	2046D	S10	E13	7220	07 11.8	15D	SF	3 E		33	
			10 2057		2100			No Flare Patrol							
			10 2111		2119			No Flare Patrol							
			10 2128		2129			No Flare Patrol							
0154	HOLL	10	2130E	2154U	2221D	N14	W74	7216	07 5.3	51D	SF C 5.8	2 E		40	F
			10 2133		2152			No Flare Patrol							
0155	LEAR	10	2339	2517	2616	S13	E12	7220	07 11.9	157	1F	3 E		100	T

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
		10	2342		2400			No Flare Patrol													
0156		10	23452	2352*	2513	S12	E21	7222	07	12.6	88	SN	C 7.0				69		EFKT		
	HOLL	10	2342E	2358U	2428D	S11	E17	7222	07	12.3	46D	SN		2	E		71		FE		
	HOLL	10	2342E	2411	2428D	S11	E17	7222	07	12.3	46D	SN			E		85		K		
	LEAR	10	2345	2517	2616	S12	E20	7222	07	12.5	151	SF		3	E		90		T		
	HOLL	10	2347	2352	2410	S12	E30	7222	07	13.2	23	SF	C 7.0	2	E		31		FE		
		11	0000		0011			No Flare Patrol													
		11	0115		0126			No Flare Patrol													
		11	0134		0142			No Flare Patrol													
0157	LEAR	11	0234	0240	0315	S13	E20	7222	07	12.6	41	SF	C 2.4	3	E		30				
		11	0237		0254			No Flare Patrol													
0158	LEAR	11	0238	0240	0259	S08	W10	7219	07	10.3	21	SF		3	E		28				
0159	LEAR	11	0428	0429	0435	N10	W77	7216	07	5.4	7	SF	C 6.0	3	E		37				
0160	SVTO	11	0743	0743	0807	S10	E09	7220	07	12.0	24	SF		3	E		10		F		
0161		11	0812*	0832*	0901	S11	E08	7220	07	11.9	49	SF	C 2.0				37		F		
	SVTO	11	0812	0845	0913	S09	E09	7220	07	12.0	61	SF		3	E		34				
	LEAR	11	0828	0832	0858	S11	E06	7220	07	11.8	30	SF	C 2.0	3	E		40				
	ISTA	11	0836E		0853	S12	E08	7220	07	12.0	17D	1N			P				F		
0162		11	11452	11481	1219	S11	E08	7220	07	12.1	34	SN					81	1.2	F		
	HTPR	11	1145	1148	1215	S12	E06	7220	07	11.9	30	SN			C	1148	120	1.2			
	SVTO	11	1147	1149	1223	S10	E09	7220	07	12.2	36	SF		3	E		42		F		
0163	SVTO	11	1227	1229	1300D	S09	E61	7225	07	16.1	33D	SF		3	E		37		F		
0164	SVTO	11	1402	1404	1428	S10	E19	7222	07	13.0	26	SF		3	E		14		F		
0165	HTPR	11	1517	1525	1545	S12	E02	7220	07	11.8	28	SN			C	1525	90	0.9	E		
0166	SVTO	11	1559	1600	1606	S11	E03	7220	07	11.9	7	SF		2	E		23		F		
0167	SVTO	11	1559	1603	1628	S09	E12	7222	07	12.6	29	SF		2	E		28		F		
0168	HOLL	11	1919	1922	1932	S12	E19	7222	07	13.2	13	SF	C 1.6	3	E		11		F		
		11	2251		2253			No Flare Patrol													
		11	2301		2305			No Flare Patrol													
		11	2342		2400			No Flare Patrol													
		12	0000		0005			No Flare Patrol													
0169		12	0256	02573	0312	S04	W32	7219	07	9.7	16	SN	C 1.2				44	0.4	E		
	LEAR	12	0256	0257	0319	S05	W26	7219	07	10.2	23	SF	C 1.2	3	E		59				
	WATU	12	0256	0300	0305	S02	W38	7219	07	9.3	9	SN			C	0300	30	0.4	E		
0170		12	03519	04014	0412	S12	E14	7222	07	13.2	21	SF	C 1.8				19		FH		
	LEAR	12	0351	0401	0414	S12	E14	7222	07	13.2	23	SF	C 1.8	3	E		25				
	PALE	12	0400	0405	0411	S11	E15	7222	07	13.3	11	SF		3	E		13		FH		
0171		12	0617*	0644	0700	S13	W06	7220	07	11.8	43	SN	C 1.9				14	0.1	DF		
	SVTO	12	0617	0646U	0742D	S15	W03	7220	07	12.0	85D	SF		2	E		19		F		
	WATU	12	0639	0644	0649	S12	W07	7220	07	11.7	10	SN			C	0644	10	0.1	D		
	LEAR	12	0639	0644	0655	S14	W06	7220	07	11.8	16	SF	C 1.9	3	E		12		F		
	ISTA	12	0649E		0715	S12	W07	7220	07	11.7	26D	SN			P				D		
0172	SVTO	12	0822	0823	0828	S13	W05	7220	07	12.0	6	SF	C 1.8	3	E		21		F		
0173	SVTO	12	0917	0920	0924	N26	E69	7229	07	17.7	7	SF		3	E		32				
0174	SVTO	12	0927	0933	0949	S14	W06	7220	07	11.9	22	SF	C 2.6	3	E		22		F		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0175		12	1306	1306	1330	S12	W08	7220	07	11.9	24	SF					34		F
	SVTO	12	1234E	1242U	1307	S14	W08	7220	07	11.9	33D	SF		3	E		48		F
	RAMY	12	1306	1306	1354	S11	W09	7220	07	11.9	48	SF		3	E		20		F
0176	SVTO	12	1235E	1251U	1310	S14	W01	7222	07	12.4	35D	SF		3	E		13		
0177	SVTO	12	1315	1342	1353D	S10	E06	7222	07	13.0	38D	SF		3	E		17		F
0178	SVTO	12	1403	1410	1422	S11	W09	7220	07	11.9	19	SF		3	E		29		F
0179	RAMY	12	1421	1429	1433	S09	E01	7222	07	12.7	12	SF		3	E		13		
0180		12	18501	1852	1907	S06	W32	7219	07	10.4	17	SF	C 2.8				16		F
	PALE	12	1850	1852	1908	S05	W32	7219	07	10.4	18	SF	C 2.8	3	E		20		
	HOLL	12	1851	1852	1906	S06	W33	7219	07	10.3	15	SF		2	E		11		F
0181		12	19097	19166	1956	S15	W11	7220	07	12.0	47	SF					32		FH
	RAMY	12	1909	1916	2002	S16	W12	7220	07	11.9	53	SF		3	E		28		F
	HOLL	12	1909	1921	2003	S15	W11	7220	07	12.0	54	SF		2	E		44		FH
	PALE	12	1916	1922	1943	S13	W11	7220	07	12.0	27	SF		3	E		24		F
		12	2045		2101	No Flare Patrol													
		12	2103		2106	No Flare Patrol													
		12	2113		2128	No Flare Patrol													
		12	2241		2252	No Flare Patrol													
		12	2254		2305	No Flare Patrol													
		12	2341		2400	No Flare Patrol													
		13	0000		0001	No Flare Patrol													
0182	ONDR	13	0553E	0553U	0601	S15	W18	7220	07	11.9	8D	SF			P	0553	71	0.8	DI
0183		13	0634	0638	0642	S10	W01	7222	07	13.2	8	SF	C 1.7				56	1.1	EFI
	SVTO	13	0633E	0639U	0644D	S12	W01	7222	07	13.2	11D	SF	C 1.7	2	E		12		F
	KANZ	13	0634	0638	0642	S09	W02	7222	07	13.1	8	SF		2	C				
	ONDR	13	0637E	0638	0642	S10	W01	7222	07	13.2	5D	SF			P	0638	99	1.1	EI
0184		13	0646	06468	0656	S10	W10	7222	07	12.5	10	SF					37	0.7	EFI
	LEAR	13	0646	0646	0651	S09	W10	7222	07	12.5	5	SF		3	E		11		F
	KANZ	13	0646	0654	0702	S11	W10	7222	07	12.5	16	SF		2	C				
	ONDR	13	0654E	0654U	0657U	S10	W10	7222	07	12.5	3U	SF			P	0654	63	0.7	EI
0185		13	0714	0717	0721	S13	W14	7220	07	12.2	7	SF	C 1.8				50		EF
	LEAR	13	0714	0717	0721	S13	W15	7220	07	12.2	7	SF	C 1.8	3	E		50		FE
	KANZ	13	0716E	0716U	0720D	S13	W14	7220	07	12.2	4D	SF		2	C				
0186		13	0801	0805	0818	S08	W04	7222	07	13.0	17	SN	C 7.6				52		EF
	LEAR	13	0801	0805	0820	S09	W06	7222	07	12.9	19	SN	C 7.6	3	E		52		FE
	KANZ	13	0805E	0805U	0817	S08	W03	7222	07	13.1	12D	SF		2	C				
0187		13	09233	09282	0957D	S10	W12	7222	07	12.5	34D	1B	C 4.3				149	2.1	EFIK
	ONDR	13	0923	0930	0955U	S09	W12	7222	07	12.5	32U	1B			P	0930	198	2.1	EIK
	SVTO	13	0926	0928	0957D	S10	W11	7222	07	12.6	31D	1N	C 4.3	3	E		100		F
0188	RAMY	13	1149	1156	1204	S11	W22	7220	07	11.8	15	SF		3	E		25		
0189	RAMY	13	1149	1203	1217	S10	W05	7222	07	13.1	28	SF		3	E		33		F
0190	RAMY	13	1159	1205	1208	N22	E54	7229	07	17.6	9	SF		3	E		12		
0191	RAMY	13	1242	1243	1253	S12	W23	7220	07	11.8	11	SF		3	E		34		
0192	RAMY	13	1305	1307	1318	N22	E53	7229	07	17.6	13	SF		3	E		12		F
0193	RAMY	13	1330	1340	1346	N21	E53	7229	07	17.6	16	SF		3	E		13		F
0194	SVTO	13	1434	1439U	1514D	N26	E53	7229	07	17.7	40D	SF		2	E		36		F
0195	HOLL	13	1544	1550	1556	S12	W25	7220	07	11.8	12	SF		3	E		34		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Mo						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0196		13	1544*	16071	1630	S08	W08	7222	07	13.0	46	SF	C 1.3			71		FH
	HOLL	13	1544	1608	1646	S07	W08	7222	07	13.0	62	SF		3	E	96		FH
	RAMY	13	1606	1607	1614	S07	W08	7222	07	13.1	8	SF	C 1.3	3	E	57		
	SVTO	13	1606E	1608U	1620D	S08	W08	7222	07	13.1	14D	SF		2	E	60		F
	KANZ	13	1612E		1618D	S08	W08	7222	07	13.1	6D	SF		2	C			
		13	1628		1656	No Flare Patrol												
0197	HOLL	13	1652	1655	1700	S15	W24	7220	07	11.9	8	SF		3	E	31		F
0198		13	16581	1659	1704	S10	W12	7222	07	12.8	6	SF				24		
	HOLL	13	1658	1659	1705	S09	W16	7222	07	12.5	7	SF		3	E	31		
	PALE	13	1659	1659	1702	S11	W08	7222	07	13.1	3	SF		3	E	16		
0199	HOLL	13	1720	1720	1725	S14	W26	7220	07	11.7	5	SF	C 2.1	3	E	15		F
0200	PALE	13	1812	1818	1824	S21	E02	7226	07	13.9	12	SF		3	E	18		F
0201	HOLL	13	1839	1847	1852	S11	W13	7222	07	12.8	13	SF		3	E	19		F
0202	PALE	13	1905	1905	1922	S09	W13	7222	07	12.8	17	SF	C 1.9	3	E	14		F
0203		13	19151	19161	1925	N24	E51	7229	07	17.7	10	SF				22		F
	PALE	13	1915	1917	1925	N25	E53	7229	07	17.9	10	SF		3	E	23		
	HOLL	13	1916	1916	1925	N23	E49	7229	07	17.6	9	SF		3	E	22		F
0204	HOLL	13	1948	1948	2012	S10	W27	7220	07	11.8	24	SF		3	E	16		F
		13	1954		2003	No Flare Patrol												
0205		13	2005	2013	2051	S04	W50	7219	07	10.1	46	2N	C 7.3			244		EFH
	PALE	13	2005E	2012U	2047D	S04	W49	7219	07	10.2	42D	2N		3	E	250		F
	HOLL	13	2005	2013	2051	S05	W50	7219	07	10.1	46	1N	C 7.3	3	E	239		EH
		13	2015		2041	No Flare Patrol												
0206	HOLL	13	2034	2035	2044	S23	E00	7226	07	13.8	10	SF		3	E	19		
		13	2048		2129	No Flare Patrol												
0207	HOLL	13	2118	2121	2133	S10	W31	7220	07	11.5	15	1N	C 4.7	3	E	109		EH
0208		13	2150	21544	2210	S10	W20	7222	07	12.4	20	SF	C 2.7			62	0.9	EFIJT
	VORO	13	2150	2154	2210	S10	W20	7222	07	12.4	20	SF		2	C	81	0.9	EIJT
	HOLL	13	2150	2158	2210	S09	W19	7222	07	12.5	20	SF	C 2.7	3	E	42		FE
0209	HOLL	13	2206	2235	2257	S10	W27	7220	07	11.9	51	SF		3	E	44		F
0210	HOLL	13	2211	2215	2218	S23	W01	7226	07	13.8	7	SF		3	E	19		F
0211		13	22282	22294	2246	S22	E01	7226	07	14.0	18	SF	C 3.1			44	0.7	DEFIJT
	HOLL	13	2228	2229	2248	S23	W01	7226	07	13.8	20	SF	C 3.1	3	E	25		FE
	VORO	13	2230	2233	2243	S22	E03	7226	07	14.2	13	SF		2	C	63	0.7	DIJT
0212		14	00013	0004	0024	S22	E01	7226	07	14.1	23	SF	C 2.1			106	1.5	EIJT
	VORO	14	0001	0004	0017	S22	E03	7226	07	14.2	16	SF		2	C	134	1.5	EIJT
	LEAR	14	0004	0004	0030	S21	W01	7226	07	13.9	26	SF	C 2.1	3	E	79		
0213		14	00541	00562	0115	N25	E49	7229	07	17.8	21	SF				61		FH
	LEAR	14	0054	0056	0121	N27	E52	7229	07	18.1	27	SF		3	E	72		FH
	HOLL	14	0055	0058	0109	N23	E46	7229	07	17.6	14	SF		3	E	50		
0214		14	0113	01172	0134	S10	W32	7220	07	11.6	21	SF				46	0.9	EFIJT
	LEAR	14	0113	0119	0139	S09	W33	7220	07	11.6	26	SF		3	E	20		F
	VORO	14	0116U	0117	0128	S12	W32	7220	07	11.6	12U	SF		2	C	72	0.9	EIJT
0215	LEAR	14	0249	0249	0258	S11	W15	7222	07	13.0	9	SF	C 1.3	3	E	29		
0216	SVTO	14	0505	0505	0523	S14	W75		07	8.5	18	SF		3	E	13		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0217	KANZ	14	0704	0708	0716	S12	W13	7222	07	13.3	12	SF		2	C				
0218	SVTO	14	0704	0708	0719	S24	W07	7226	07	13.7	15	SF	C 1.3	3	E		10		
0219		14	0832	0832	0839	S10	W37	7220	07	11.6	7	SN					141	1.9	EI
	KANZ	14	0832	0832	0840	S11	W36	7220	07	11.6	8	SF		2	C				
	ONDR	14	0834E	0834U	0838	S10	W38	7220	07	11.5	40	SN			P	0834	141	1.9	EI
0220	KHAR	14	0842U		0858D	S07	W59		07	9.9	16U	1F		1	V	0845			EH
0221		14	08542	08551	0906	S08	W18	7222	07	13.0	12	SF					85	0.9	DI
	KHAR	14	0854	0855	0858U	S07	W17	7222	07	13.1	4U	SN		2	V	0855			D
	KANZ	14	0856	0856	0912	S08	W18	7222	07	13.0	16	SF		2	C				
	ONDR	14	0858E	0858U	0900	S08	W18	7222	07	13.0	20	SF			P	0858	85	0.9	DI
0222		14	0908	09081	0915	S07	W55		07	10.3	7	SF					21		
	KANZ	14	0908	0908	0912	S06	W54		07	10.3	4	SF		2	C				
	SVTO	14	0908	0909	0918	S08	W56		07	10.2	10	SF		3	E		21		
0223		14	0924	0924	0935	S06	W56		07	10.2	11	1F							B
	KANZ	14	0924	0924	0932	S06	W54		07	10.3	8	SF		2	C				
	KHAR	14	0927E		0938	S05	W57		07	10.1	11D	1F		2	V	0927			B
0224		14	09553	09574	1024	S06	W55		07	10.3	29	SF	C 1.8				148	4.7	FOT
	SVTO	14	0955	0957	1027	S08	W55		07	10.3	32	SF	C 1.8	3	E		67		F
	KANZ	14	0956	1000	1020	S06	W54		07	10.4	24	SF		2	C				
	KHAR	14	0958	1001	1025	S05	W57		07	10.1	27	1N		2	V	1001	230	4.7	OT
0225	KHAR	14	1012	1014	1021	S07	W17	7222	07	13.1	9	SN		2	V	1014	30	0.3	DH
0226		14	10128	10226	1110	N21	E42	7229	07	17.6	58	1N	M 1.0				204	5.2	EF
	KANZ	14	1012	1028	1152D	N23	E42	7229	07	17.7	100D	1F		2	C				
	KHAR	14	1020	1022	1110	N23	E44	7229	07	17.8	50	1N		2	V	1022	340	5.2	E
	KANZ	14	1020	1024	1152D	N17	E41	7229	07	17.5	92D	SF		2	C				
	RAMY	14	1034E	1034U	1159D	N20	E41	7229	07	17.6	85D	SN	M 1.0	3	E		69		F
0227		14	1203*	1203*	1241	S12	W18	7222	07	13.1	38	1N	M 2.7				70		FZ
	RAMY	14	1203	1203	1216	S11	W19	7222	07	13.1	13	SF		3	E		13		F
	KANZ	14	1217	1225	1310	S12	W17	7222	07	13.2	53	1F		2	C				
	SVTO	14	1218	1219U	1219D	S13	W21	7222	07	12.9	1D	1N	M 2.7	3	E		113		F
	HURB	14	1223	1227	1238	S13	W19	7222	07	13.1	15	2N			V				
	HOLL	14	1233E	1233U	1320D	S13	W16	7222	07	13.3	47D	SN		1	E		84		ZF
0228		14	12348	12388	1254	S12	W31	7220	07	12.2	20	SF					20		
	KANZ	14	1234	1238	1250	S11	W28	7220	07	12.4	16	SF		2	C				
	SVTO	14	1242	1246	1257	S13	W34	7220	07	12.0	15	SF		3	E		20		
0229		14	1244*	1251*	1324	S23	W09	7226	07	13.8	40	SF					16		F
	RAMY	14	1244	1256	1318	S24	W08	7226	07	13.9	34	SF		3	E		20		
	SVTO	14	1250	1251	1322	S23	W10	7226	07	13.8	32	SF		3	E		10		
	RAMY	14	1319	1319	1332	S23	W09	7226	07	13.9	13	SF		3	E		17		F
0230	HOLL	14	1513	1516	1526	N25	E39	7229	07	17.6	13	SF		3	E		22		
0231		14	1528	15307	1610	S23	W10	7226	07	13.9	42	SF	C 3.9				70		EF
	RAMY	14	1528	1530	1605	S22	W11	7226	07	13.8	37	SF		3	E		38		
	SVTO	14	1528	1530	1612	S24	W09	7226	07	13.9	44	SF		3	E		36		F
	HOLL	14	1528	1537	1613	S22	W11	7226	07	13.8	45	1N	C 3.9	4	E		135		FE
0232		14	1622*	1646	1704	N26	E38	7229	07	17.6	42	SF					37		F
	HOLL	14	1622	1646	1720	N25	E38	7229	07	17.6	58	SF		3	E		62		F
	RAMY	14	1644	1646	1655	N25	E39	7229	07	17.7	11	SF		3	E		27		F
	SVTO	14	1645	1646	1658	N27	E38	7229	07	17.6	13	SF		3	E		22		
0233		14	1655	16572	1716	S12	W18	7222	07	13.3	21	SF	C 4.1				54		EF
	SVTO	14	1655	1657	1710	S13	W18	7222	07	13.3	15	SF		3	E		72		F
	RAMY	14	1655	1657	1718	S12	W18	7222	07	13.3	23	SF	C 4.1	3	E		61		F
	HOLL	14	1655	1659	1716	S12	W18	7222	07	13.3	21	SN		3	E		69		FE
	PALE	14	1709E	1709U	1720	S12	W17	7222	07	13.4	11D	SF		3	E		14		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0234	PALE	14	1711	1722	1807	S22	W12	7226	07	13.8	56	SF	3	E		38		
0235		14	1747	1748	1824	S09	W31	7222	07	12.4	37	1N C 6.0				92		EF
	RAMY	14	1747	1748	1805	S10	W31	7222	07	12.4	18	SF	3	E		55		F
	PALE	14	1747	1749	1833	S09	W31	7222	07	12.4	46	1N	3	E		113		F
	HOLL	14	1747	1749	1835	S09	W32	7222	07	12.3	48	1B C 6.0	3	E		109		FE
0236		14	1813	1813	1823	S13	W21	7222	07	13.2	10	SF C 2.3				12		
	PALE	14	1813	1813	1822	S13	W21	7222	07	13.2	9	SF	3	E		11		
	RAMY	14	1813	1814	1824	S13	W21	7222	07	13.2	11	SF C 2.3	3	E		13		
0237		14	1838	1838	1848	S08	W31	7222	07	12.4	10	SF C 3.3				43		FH
	HOLL	14	1838	1838	1846	S08	W31	7222	07	12.4	8	SF	3	E		37		FH
	PALE	14	1838	1840	1848	S09	W31	7222	07	12.4	10	SN	3	E		44		F
	RAMY	14	1838	1841	1849	S08	W31	7222	07	12.4	11	SF C 3.3	3	E		47		FH
		14	2134		2250	No Flare Patrol												
0238	HOLL	14	2207	2228	2302	S11	W38	7220	07	12.1	55	SF C 3.8	3	E		94		F
0239	HOLL	14	2231	2235	2248	N09	E32	7227	07	17.3	17	SF	3	E		23		
		14	2252		2305	No Flare Patrol												
0240	HOLL	14	2301	2343	2357	S11	W26	7222	07	13.0	56	SF	3	E		28		F
0241	HOLL	14	2318	2323	2329	S24	W14	7226	07	13.9	11	SF	3	E		23		F
		14	2332		2400	No Flare Patrol												
		15	0000		0004	No Flare Patrol												
0242	HOLL	15	0038	0039	0106	S10	W37	7220	07	12.2	28	SF C 1.7	3	E		37		F
0243	WATU	15	0200	0201	0209	S09	W35	7222	07	12.4	9	SN		C	0201	80	1.1	E
0244		15	0431	0436	0447	S10	W39	7222	07	12.2	16	SN C 6.4				50	0.8	DEFH
	WATU	15	0431	0436	0444	S10	W38	7222	07	12.3	13	SB		C	0436	80	1.1	E
	SVTO	15	0432	0437	0452	S12	W41	7222	07	12.1	20	SN C 6.4	1	E		38		FH
	URUM	15	0435	0437	0444	S09	W39	7222	07	12.3	9	SN		C		32	0.4	D
0245	SVTO	15	0442	0505	0522	S25	W16	7226	07	13.9	40	1F C 3.0	2	E		114		FZ
0246	SVTO	15	0455	0516	0524	S13	W32	7222	07	12.8	29	SF	2	E		12		F
0247	SVTO	15	0514	0515	0524	N27	E31	7229	07	17.6	10	SF	2	E		19		
0248	HTPR	15	0600	0605	0620	S24	W20	7226	07	13.7	20	SF		C	0605	125	1.4	
0249		15	0627	0630	0700	S14	E56	7230	07	19.5	33	SF				91		EFK
	SVTO	15	0627	0630	0703	S14	E55	7230	07	19.4	36	SF		E		72		K
	HTPR	15	0627	0636	0655	S15	E58	7230	07	19.6	28	1N		C	0636	140		E
	SVTO	15	0627	0639	0703	S14	E55	7230	07	19.4	36	SF	3	E		62		F
0250	SVTO	15	0637	0645	0651	S24	W18	7226	07	13.9	14	SF C 2.5	3	E		12		F
0251		15	0654	0705	0733	S22	W18	7226	07	13.9	39	SN				52	1.0	E
	SVTO	15	0654	0705	0746	S22	W18	7226	07	13.9	52	SF	3	E		14		
	HTPR	15	0700	0710	0720	S22	W18	7226	07	13.9	20	SN		C	0710	90	1.0	E
0252	LEAR	15	0836	0843	0907	S21	W21	7226	07	13.7	31	SF C 1.4	3	E		50		F
0253	SVTO	15	0947	0949	0957	S24	W19	7226	07	13.9	10	SF C 1.7	3	E		15		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Apparent (10 ⁻⁶ Disk)	Measurement Corr (Sq Deg)	Remarks
0254	15	1013*	1024*	1118	S09	W41	7222	07	12.3	65	1N	C	7.0				129	2.1	EHK
	SVTO	15	1013	1024	1125	S10	W41	7222	07	12.3	72	1N			E		151		K
	SVTO	15	1013	1052	1125	S10	W41	7222	07	12.3	72	1N		3	E		116		EH
	HTPR	15	1046	1053	1117	S08	W43	7222	07	12.2	31	1N			C	1053	230	3.2	E
	ISTA	15	1049E		1115	S09	W42	7222	07	12.3	260	2B			P				I
	URUM	15	1049E	1051	1109	S09	W43	7222	07	12.2	200	SN			C		48	0.7	E
	ONDR	15	1054E	1055	1116	S09	W38	7222	07	12.6	220	1B			P	1055	180	2.5	EI
	RAMY	15	1113	1113	1118	S09	W42	7222	07	12.3	5	SF	C	7.0	3	E	47		
0255	RAMY	15	1131	1135	1154	S23	W20	7226	07	13.9	23	SF		3	E		17		F
0256	15	11395	1146*	1205	S13	W26	7222	07	13.5	26	SF						63	1.3	EFH
	RAMY	15	1139	1201	1216	S12	W28	7222	07	13.4	37	SF		3	E		16		FH
	HTPR	15	1141	1146	1205	S14	W28	7222	07	13.4	24	SF			C	1146	110	1.3	
	ISTA	15	1144		1153	S12	W22	7222	07	13.8	9	SN			P				EF
0257	HOLL	15	1327	1329	14120	S23	W23	7226	07	13.8	450	SF		2	E		45		F
0258	SVTO	15	1420	1420	1425	S12	W34	7222	07	13.0	5	SF		3	E		12		
0259	SVTO	15	1428	1428	1443	S12	W34	7222	07	13.0	15	SF		3	E		11		
0260	15	1457*	1458*	1526	S11	W40	7222	07	12.6	29	SF	C	2.8				37	1.1	DF
	SVTO	15	1457	1458	1520	S12	W41	7222	07	12.5	23	SF		3	E		16		
	HOLL	15	1459E	1459	1525	S11	W40	7222	07	12.6	260	SF	C	2.8	3	E	41		
	HTPR	15	1500	1515	1520	S10	W43	7222	07	12.4	20	SF			C	1515	80	1.1	D
	SVTO	15	1524	1535	1540	S12	W37	7222	07	12.8	16	SF		3	E		10		F
0261	HTPR	15	1607	1610	1617	N24	E30	7229	07	18.0	10	SF			C	1610	100	1.2	DH
0262	15	1718*	1723*	1749	S12	W35	7222	07	13.1	31	SF	C	2.0				70	1.3	EF
	HTPR	15	1718	1727	1750	S12	W37	7222	07	12.9	32	SF			C	1727	100	1.3	E
	HOLL	15	1721	1723	1740	S12	W33	7222	07	13.2	19	SF	C	2.0	3	E	73		FE
	PALE	15	1739	1742	1758	S13	W36	7222	07	13.0	19	SF		3	E		37		
0263	PALE	15	1739	1741	1746	S24	W23	7226	07	13.9	7	SF		3	E		17		
0264	15	18132	18173	1832	S24	W24	7226	07	13.9	19	SF	C	2.1				39		F
	PALE	15	1813	1820	1833	S24	W24	7226	07	13.9	20	SF	C	2.1	3	E	36		F
	HOLL	15	1814	1818	1822	S23	W25	7226	07	13.8	8	SF		2	E		34		F
	RAMY	15	1815	1817	1841	S24	W24	7226	07	13.9	26	SF		3	E		48		F
0265	PALE	15	2044	2044	2056	S15	W52	7220	07	11.9	12	SF		3	E		15		
0266	HOLL	15	2117	2125	2127	S14	E46	7230	07	19.4	10	SF		3	E		16		
0267	15	21381	2141	2200	S13	W38	7222	07	13.0	22	SF	C	2.7				30		F
	HOLL	15	2138	2141	2157	S13	W38	7222	07	13.0	19	SF		3	E		34		F
	PALE	15	2139	2141	2204	S13	W39	7222	07	12.9	25	SF	C	2.7	3	E	25		F
0268	15	21401	21412	2150	S23	W26	7226	07	13.9	10	SF						28		F
	PALE	15	2140	2141	2151	S23	W25	7226	07	14.0	11	SF		3	E		34		F
	HOLL	15	2141	2143	2150	S23	W26	7226	07	13.9	9	SF		3	E		22		
0269	15	2204	2205	2212	S16	W54	7220	07	11.8	8	SF						20		
	HOLL	15	2204	2205	2211	S15	W54	7220	07	11.8	7	SF		3	E		16		
	PALE	15	2204	2205	2213	S16	W53	7220	07	11.9	9	SF		3	E		24		
	15	2333		2335	No Flare Patrol														
	15	2339		2400	No Flare Patrol														
	16	0000		0009	No Flare Patrol														
	16	0020		0028	No Flare Patrol														
0270	WATU	16	0110	0111	0114	S11	W41	7222	07	13.0	4	SN			C	0111	70	1.0	E
0271	PALE	16	0138	0139	0145	S23	W31	7226	07	13.7	7	SF		3	E		20		
0272	16	01536	0200	0214	S14	W56	7220	07	11.8	21	SF	C	1.8				22		
	PALE	16	0153	0200	0224	S14	W56	7220	07	11.8	31	SF	C	1.8	3	E	32		
	LEAR	16	0159	0200	0204	S13	W56	7220	07	11.8	5	SF		3	E		13		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0273		16	02593	03032	0330	S22 W28	7226	07 14.0	31	SF C 1.9				35		F
	PALE	16	0259	0305	0333	S22 W29	7226	07 13.9	34	SF C 1.9	3	E		47		
	LEAR	16	0302	0303	0326	S21 W28	7226	07 14.0	24	SF	3	E		23		F
0274		16	03587	0406	0418	N25 E20	7229	07 17.7	20	SN				30	0.5	EF
	TACH	16	0358	0405U	0424	N25 E20	7229	07 17.7	26	SB	3	C	0405	43	0.5	E
	PALE	16	0405	0406	0413	N25 E20	7229	07 17.7	8	SF	3	E		17		F
0275		16	0418	0419	0432D	S23 W32	7226	07 13.7	14D	SF				36		
	PALE	16	0418	0419	0424D	S23 W32	7226	07 13.7	6D	SF	3	E		33		
	SVTO	16	0429E	0430U	0432D	S23 W32	7226	07 13.7	3D	SF	1	E		40		
0276	SVTO	16	0459	0519	0525	N23 E20	7229	07 17.7	26	SF	3	E		13		
0277	SVTO	16	0522	0524	0528	S24 W33	7226	07 13.7	6	SF	3	E		14		
0278	SVTO	16	0621	0634	0644	S15 W58	7220	07 11.9	23	SF	3	E		36		
0279		16	0635	06352	0642	S12 W40	7222	07 13.3	7	SF				24		
	SVTO	16	0635	0635	0642	S14 W40	7222	07 13.2	7	SF	3	E		16		
	LEAR	16	0635	0637	0643	S11 W39	7222	07 13.3	8	SF	3	E		31		
0280		16	08571	08582	0904	S13 W44	7222	07 13.0	7	SN C 2.6				86	1.8	EHI
	HTPR	16	0857	0900	0906	S13 W40	7222	07 13.3	9	SN		C	0900	110	1.5	EH
	SVTO	16	0858	0858	0903	S14 W41	7222	07 13.3	5	SF C 2.6	3	E		22		
	ONDR	16	0900E	0900U	0903D	S11 W52	7222	07 12.5	3D	1N		P	0900	127	2.2	EI
0281		16	0923	09261	0936	S13 E42	7230	07 19.6	13	SN C 1.7				56	1.4	D
	HTPR	16	0923	0926	0935	S14 E43	7230	07 19.6	12	SN		C	0926	90	1.4	D
	SVTO	16	0923	0927	0938	S12 E41	7230	07 19.5	15	SF C 1.7	3	E		21		
0282	HTPR	16	1026	1028	1033	S13 W38	7222	07 13.6	7	SN		C	1028	80	1.3	D
0283	HTPR	16	1250	1253	1310	N23 E60	7232	07 21.1	20	1N		C	1253	100		
0284	HOLL	16	1444	1444	1455	S21 W38	7226	07 13.7	11	SF	3	E		20		F
0285		16	16022	16041	1610	S14 W57	7220	07 12.4	8	SN C 1.2				53	1.5	EF
	HTPR	16	1602	1604	1610	S13 W57	7220	07 12.4	8	SN		C	1604	80	1.5	E
	HOLL	16	1604	1605	1611	S14 W57	7220	07 12.4	7	SF C 1.2	3	E		26		F
0286		16	16551	16572	1720	S10 W63	7220	07 12.0	25	2B M 6.8				351		FU
	RAMY	16	1655	1657	1722	S13 W67	7220	07 11.6	27	2B	3	E		432		UF
	HTPR	16	1655	1658	1710D	S07 W60	7220	07 12.2	15D	2B		C	1658	400		
	RAMY	16	1656	1657	1713	S09 W60	7220	07 12.2	17	1B	3	E		137		UF
	SVTO	16	1656	1657U	1721	S13 W68	7220	07 11.6	25	2B	3	E		372		UF
	HOLL	16	1656	1659	1725	S10 W61	7220	07 12.1	29	2B M 6.8	4	E		415		UF
0287	HOLL	16	1656	1658	1712	N01 W57	7233	07 12.4	16	SF	3	E		71		F
0288	RAMY	16	2028	2041	2043	S12 W69	7220	07 11.6	15	SF	3	E		28		
		16	2110		2117	No Flare Patrol										
0289		16	2327*	23574	2434	N07 E05	7227	07 17.3	67	1F				243		DEF
	PALE	16	2325E	2358U	2538D	N08 E04	7227	07 17.3	133D	2F	3	E		317		F
	HOLL	16	2327	2357	2516	N07 E03	7227	07 17.2	109	2N	3	E		474		FE
	LEAR	16	2353	2401	2419	N07 E08	7227	07 17.6	26	1F	2	E		140		F
	WATU	17	0001E	0001	0008	N06 E04	7227	07 17.3	7D	SF		P	0001	40		D
		16	2335		2400	No Flare Patrol										
0290	HOLL	17	0041	0049	0056	S14 W61	7222	07 12.4	15	SF	3	E		12		
0291	LEAR	17	0154	0155	0158	S12 W70	7220	07 11.8	4	SF	3	E		21		
0292		17	03077	0307*	0311	S14 W72	7220	07 11.7	4	SN C 1.3				48		F
	LEAR	17	0307	0307	0311	S13 W73	7220	07 11.6	4	SF	3	E		36		
	PALE	17	0314	0317	0318D	S14 W70	7220	07 11.8	4D	SN C 1.3	3	E		60		F

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														Apparent (10-6 Disk)	Corr (Sq Deg)	
0293	LEAR	17	0340	0342	0350	S13	W70	7220	07 11.9	10	SF C 1.5	3 E		40		
0294		17	07126	0718	0721	S14	W72	7220	07 11.8	9	SF			23		D
	ISTA	17	0712		0717	S13	W71	7220	07 11.9	5	SN	P				D
	SVTO	17	0716	0718	0721	S15	W72	7220	07 11.8	5	SF	3 E		21		
	LEAR	17	0716	0718	0723	S12	W74	7220	07 11.7	7	SF	3 E		25		
	KANZ	17	0718	0718	0722	S14	W72	7220	07 11.9	4	SF	2 C				
0295	LEAR	17	0734	0747	0759	S11	W73	7220	07 11.8	25	SF	3 E		10		
0296	SVTO	17	0749	0750	0756	S13	W59	7222	07 12.9	7	SF	3 E		11		F
0297	SVTO	17	0923	0926	0934	S14	W55	7222	07 13.2	11	SF	3 E		11		
0298		17	0927	0927	0932	N21	W01	7229	07 17.3	5	SF			19		
	LEAR	17	0927	0927	0931	N21	W01	7229	07 17.3	4	SF	3 E		19		
	SVTO	17	0927	0928	0932	N21	W01	7229	07 17.3	5	SF	3 E		19		
0299		17	12181	1222	1234	N16	E56	7232	07 21.7	16	SF C 1.5			26		F
	SVTO	17	1218	1218U	1233D	N17	E57	7232	07 21.8	15D	SF	1 E		24		
	RAMY	17	1219	1222	1234	N16	E55	7232	07 21.7	15	SF C 1.5	3 E		29		F
0300		17	1524	15242	1543	S15	W80	7220	07 11.6	19	SF C 1.3			49		
	HOLL	17	1522E	1526	1546	S15	W84	7220	07 11.3	24D	SF C 1.3	3 E		49		
	KANZ	17	1524	1524	1540	S15	W76	7220	07 11.9	16	SF	2 C				
0301	HOLL	17	1600	1606	1616	N21	W04	7229	07 17.4	16	SF	3 E		22		
0302		17	1606*	16497	1718	N16	E50	7232	07 21.5	72	SF C 1.3			30		F
	HOLL	17	1606	1656	1714	N19	E48	7232	07 21.3	68	SF C 1.3	3 E		34		
	RAMY	17	1631	1649	1723	N14	E52	7232	07 21.6	52	SF	3 E		27		F
0303		17	1707*	17169	1800	N10	W08	7227	07 17.1	53	1F C 2.3			120		F
	HOLL	17	1707	1716	1802	N10	W08	7227	07 17.1	55	1F C 2.3	3 E		124		F
	PALE	17	1720	1725	1759	N10	W09	7227	07 17.0	39	1F	3 E		115		
0304	HOLL	17	1847	1848	1900	S11	W62	7222	07 13.1	13	SN C 3.6	3 E		89		H
		17	2004		2009	No Flare Patrol										
		17	2042		2058	No Flare Patrol										
0305	HOLL	17	2109	2112	2129	S12	W72	7220	07 12.4	20	SF C 7.1	2 E		33		
0306	HOLL	17	2109	2114	2133D	S09	W63	7222	07 13.1	24D	SF	2 E		28		
		17	2118		2123	No Flare Patrol										
		17	2134		2142	No Flare Patrol										
		17	2154		2219	No Flare Patrol										
		17	2221		2226	No Flare Patrol										
		17	2228		2304	No Flare Patrol										
		17	2348		2400	No Flare Patrol										
		18	0000		0001	No Flare Patrol										
0307	LEAR	18	0018	0020	0021	N05	W63	7233	07 13.3	3	SF	3 E		13		
0308	LEAR	18	0044	0045	0048	S13	W86	7220	07 11.5	4	SF C 1.7	3 E		23		
0309	LEAR	18	0102	0104	0118	N17	E49	7232	07 21.8	16	SF C 1.5	3 E		62		F
0310		18	01245	01311	0139	S09	W66	7222	07 13.1	15	SF C 5.1			20		D
	LEAR	18	0124	0132	0143	S10	W66	7222	07 13.1	19	SF C 5.1	3 E		20		
	WATU	18	0129	0131	0135	S08	W66	7222	07 13.1	6	SF	C	0131	20		D
0311	WATU	18	0132	0132	0137	S11	W88	7220	07 11.4	5	SN	C	0132	40		D
0312		18	02404	02447	0311	N09	W13	7227	07 17.1	31	SF M 1.0			108	1.5	EFU
	PEKG	18	0240	0251	0315	N09	W14	7227	07 17.1	35	1N	C	0251	252	2.7	E
	LEAR	18	0243	0244	0326	N09	W13	7227	07 17.1	43	SF M 1.0	3 E		42		UF
	WATU	18	0244	0247	0252	N10	W12	7227	07 17.2	8	SF	C	0247	30	0.3	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0313	WATU	18	0245	0246	0251	S11	W89	7220	07	11.4	6	SN			C	0246	40		E
0314	WATU	18	0336	0339	0342	S12	W88	7220	07	11.5	6	SN			C	0339	20		D
0315		18	05413	0546	0558	S10	W68	7222	07	13.1	17	SN					26	1.0	E1
	ONDR	18	0541	0548U	0618U	S10	W68	7222	07	13.1	37U	SN			P	0548	35	1.0	E1
	SVTO	18	0544	0546	0558	S11	W69	7222	07	13.0	14	SF	3	E		16			
0316	HTPR	18	0705		0720	S08	W90	7220	07	11.5	15	SN			C				
0317		18	0713	0713	0726	N05	W70	7233	07	13.1	13	SF	C 1.7				20		F
	SVTO	18	0713	0713	0726	N04	W70	7233	07	13.1	13	SF		3	E		18		F
	LEAR	18	0713	0713	0726	N06	W71	7233	07	13.0	13	SF	C 1.7	3	E		23		
0318	HTPR	18	0730		0800	S10	W90	7220	07	11.6	30	SF			C				
0319	HTPR	18	0740	0750	0820	S10	W72	7222	07	12.9	40	SN			C				ET
0320	HTPR	18	0927		0935	S10	W73	7222	07	12.9	8	SF			C				AET
0321		18	11151	1117	1122	S11	W83	7220	07	12.2	7	SN					11		D
	HTPR	18	1115		1122	S08	W80	7220	07	12.5	7	SB			C				D
	SVTO	18	1116	1117	1121	S14	W86	7220	07	12.0	5	SF	3	E		11			
0322	SVTO	18	1149	1156	1202	S26	W65	7226	07	13.4	13	SF	3	E		31			H
0323	HTPR	18	1324		1345	S13	W90	7220	07	11.8	21	SN			C				
0324	HTPR	18	1340		1352	S08	W90	7220	07	11.8	12	SB			C				
0325	HTPR	18	1415		1428	S13	W90	7220	07	11.8	13	SN			C				
0326	RAMY	18	1552	1553	1555	N16	E37	7232	07	21.5	3	SF	C 2.6	3	E		11		
0327	HTPR	18	1611		1620	S13	W90	7220	07	11.9	9	SN			C				
0328	SVTO	18	1615	1622	1627	S26	W67	7226	07	13.5	12	SF	3	E		22			
0329		18	20311	20361	2131	N16	E40	7232	07	21.9	60	1B	C 5.6				120		EFH
	HOLL	18	2031	2036	2131	N17	E41	7232	07	22.0	60	1B		3	E		120		FH
	PALE	18	2032	2037	2116D	N16	E40	7232	07	21.9	44D	1N	C 5.6	2	E		120		EH
0330	PALE	18	2309	2310	2314	S11	W80	7222	07	12.9	5	SF	3	E		36			
0331		19	0145	0146	0151	S10	W82	7222	07	12.9	6	SF					32		D
	VORO	19	0145	0146	0151	S08	W82	7222	07	12.9	6	SF	2	C		0146	36		D
	PALE	19	0145	0146	0151	S11	W82	7222	07	12.9	6	SF	3	E		29			
0332	PALE	19	0210	0210	0215	N22	W18	7229	07	17.7	5	SF	3	E		12			
0333		19	04263	0430*	0454	N24	W19	7229	07	17.7	28	SF	C 2.6				82	1.3	EFH
	URUM	19	0426	0430	0441	N23	W20	7229	07	17.6	15	SF			C		64	0.7	E
	WATU	19	0427	0430	0434	N22	W18	7229	07	17.8	7	SN			C	0430	30	0.3	E
	LEAR	19	0427	0431	0513	N24	W20	7229	07	17.6	46	SF	C 2.6	3	E		41		F
	SVTO	19	0427	0443	0509	N22	W21	7229	07	17.6	42	SF		3	E		40		FH
	TACH	19	0429	0431U	0455D	N25	W16	7229	07	17.9	26D	1N		3	C	0431	249	2.8	E
	PALE	19	0430E	0435	0441D	N25	W20	7229	07	17.6	11D	SF		2	E		70		
0334	LEAR	19	0541	0541	0545	S25	W70	7226	07	13.8	4	SF	3	E		11			
0335		20	1807	1812	1836	N10	W48	7227	07	17.1	29	1F					116		F
	PALE	20	1807	1812	1837	N09	W48	7227	07	17.1	30	SF	3	E		84			F
	HOLL	20	1810E	1813U	1834	N10	W49	7227	07	17.1	24D	1F	3	E		148			F
		20	2334		2338	No Flare Patrol													
0336	PALE	21	0228	0235	0248	S19	W42	7234	07	17.9	20	SF	3	E		16			H
0337	LEAR	21	0251	0322	0343	N19	E24	7236	07	22.9	52	SF	3	E		22			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0338	21	0456E	0524	0533	S18	W40	7234	07	18.1	37D	SF					45	0.7	DH
	ONDR	21	0456E	0502U	0531	S17	W40	7234	07	18.2	35D	SF		P	0502	46	0.7	D
	SVTO	21	0519E	0524	0535	S19	W41	7234	07	18.1	16D	SF	2	E		44		H
0339	LEAR	21	0527	0528	0534	N17	E21	7236	07	22.8	7	SF	3	E		17		
0340	21	0556S	0600S	0613	S12	W70	7225	07	16.0	17	SF					34		F
	LEAR	21	0556	0600	0609	S10	W70	7225	07	16.0	13	SF	3	E		37		F
	SVTO	21	0601	0603	0617	S14	W71	7225	07	15.9	16	SF	3	E		30		F
0341	ONDR	21	0556	0603U	0646	S17	W41	7234	07	18.1	50	SN		P	0603	46	0.7	DK
0342	ONDR	21	0710	0726U	0751	S18	W40	7234	07	18.2	41	SN		P	0726	42	0.6	EK
0343	HURB	21	0919	1013	1013	S22	W48	7234	07	17.7	54	1N		V				
0344	21	1025S	1035*	1110	S14	W27	7235A	07	19.4	45	SF					69	1.3	H
	HTPR	21	1025	1035	1105	S13	W28	7235A	07	19.3	40	SF		C	1035	110	1.3	H
	SVTO	21	1027	1053	1114	S16	W27	7235A	07	19.4	47	SF	3	E		28		H
	KANZ	21	1028	1048	1112	S14	W27	7235A	07	19.4	44	SF	2	C				
0345	21	1055*	1121S	1144	N23	W48	7229	07	17.7	49	SF B 7.6					14		F
	SVTO	21	1055	1121	1146	N22	W49	7229	07	17.7	51	SF B 7.6	3	E		17		F
	KANZ	21	1056	1124	1144	N22	W48	7229	07	17.8	48	SF	2	C				
	RAMY	21	1120	1121	1141	N25	W47	7229	07	17.8	21	SF	3	E		12		F
0346	RAMY	21	1144	1146	1200	S15	W44	7234	07	18.1	16	SF	3	E		12		
0347	21	1400S	1408S	1423	S16	W29	7235A	07	19.4	23	SF B 4.7					18		F
	HOLL	21	1400	1408	1426	S15	W29	7235A	07	19.4	26	SF B 4.7	3	E		20		F
	KANZ	21	1400	1412	1424	S16	W30	7235A	07	19.3	24	SF	2	C				
	SVTO	21	1404	1414	1420	S16	W29	7235A	07	19.4	16	SF	3	E		16		F
0348	21	1429S	1433S	1520	S15	W29	7235A	07	19.4	51	SF C 1.4					44		FU
	SVTO	21	1429	1437	1509	S15	W29	7235A	07	19.4	40	SF	3	E		26		U
	HOLL	21	1430	1433	1527	S14	W30	7235A	07	19.3	57	SF C 1.4	4	E		62		UF
	KANZ	21	1432	1440	1524	S15	W29	7235A	07	19.4	52	SF	2	C				
0349	21	1544S	1547*	1627	N23	W51	7229	07	17.7	43	SF C 1.0					24		F
	HOLL	21	1544	1626	1657	N24	W51	7229	07	17.7	73	SF C 1.0	4	E		44		F
	SVTO	21	1547	1547	1616	N22	W51	7229	07	17.7	29	SF	3	E		10		F
	RAMY	21	1553	1553	1607	N23	W51	7229	07	17.7	14	SF	3	E		17		F
0350	21	1910	1911	1931	N23	W52	7229	07	17.8	21	SF B 8.1					24		F
	HOLL	21	1910	1911	1918D	N24	W52	7229	07	17.8	8D	SF	2	E		22		
	PALE	21	1910	1911	1931	N22	W53	7229	07	17.7	21	SF B 8.1	3	E		25		F
	21	1922		1940	No Flare Patrol													
	21	2047		2051	No Flare Patrol													
0351	PALE	21	2058	2101	2107	S18	W51	7234	07	18.0	9	SF	3	E		21		
	21	2115		2124	No Flare Patrol													
	21	2145		2200	No Flare Patrol													
	21	2210		2254	No Flare Patrol													
0352	PALE	21	2341	2406	2426	N18	E10	7236	07	22.7	45	SF	3	E		26		
0353	21	2343S	2344S	2413	N22	W58	7229	07	17.5	30	SF C 1.6					36		
	HOLL	21	2343	2344	2417	N23	W56	7229	07	17.7	34	SF C 1.6	3	E		41		
	PALE	21	2346	2350	2409	N20	W59	7229	07	17.5	23	SF	3	E		32		
	21	2354		2400	No Flare Patrol													
0354	PALE	22	0116	0116	0126	S16	W34	7235A	07	19.5	10	SF	3	E		58		
0355	PALE	22	0126	0126	0138	N23	W56	7229	07	17.7	12	SF C 1.1	3	E		24		
0356	PALE	22	0314	0320	0330	S19	W54	7234	07	18.0	16	SF	3	E		16		

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Time (UT)	Area Measurement Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	Remarks
0357	ABST	22 0524	0532	0540	N25	W63	7229	07 17.3	16	1F	C	0532	105	2.4	E
0358		22 0534	0542	0556	S18	W56	7234	07 18.0	22	SF			26	0.7	DFH
	ONDR	22 0534	0542U	0550	S17	W55	7234	07 18.0	16	SF	P	0542	35	0.7	D
	SVTO	22 0535	0542	0602	S19	W57	7234	07 17.9	27	SF	3 E		16		FH
0359	SVTO	22 0542	0546	0557	N19	W62	7229	07 17.5	15	SF	3 E		26		F
0360	SVTO	22 0624	0625	0636	N21	W59	7229	07 17.7	12	SF	3 E		12		F
0361		22 0646	0649	0703	S18	W57	7234	07 17.9	17	SF			16		
	KANZ	22 0646	0650	0710	S17	W56	7234	07 18.0	24	SF	2 C				
	SVTO	22 0649	0649	0700	S19	W57	7234	07 17.9	11	SF	3 E		17		
	LEAR	22 0649	0651	0658	S18	W59	7234	07 17.8	9	SF	3 E		14		
0362		22 0758	0806	0830	N20	W60	7229	07 17.7	32	SF B 3.4			25		
	KANZ	22 0758	0806	0826	N21	W60	7229	07 17.7	28	SF	2 C				
	LEAR	22 0758	0807	0834	N18	W59	7229	07 17.8	36	SF B 3.4	3 E		25		
0363	KHAR	22 0815U		0826U	S17	W59	7234	07 17.9	11U	SF	2 V	0818			D
0364		22 1003	1003	1014	N22	W62	7229	07 17.6	11	SF B 6.5			22		F
	SVTO	22 1003	1003	1014	N21	W62	7229	07 17.7	11	SF B 6.5	3 E		22		F
	KANZ	22 1003	1007	1015	N22	W61	7229	07 17.7	12	SF	2 C				
0365		22 1127	1131	1142	N21	W62	7229	07 17.7	15	SF B 9.6			16		F
	KANZ	22 1127	1131	1143	N22	W61	7229	07 17.8	16	SF	2 C				
	RAMY	22 1127E	1133U	1140	N20	W62	7229	07 17.7	13D	SF B 9.6	3 E		16		F
0366		22 1453	1504	1532	N18	W12	7232	07 21.7	39	SF			83	1.8	FH
	HTPR	22 1453	1505	1525	N18	W10	7232	07 21.8	32	SN	C	1505	180	1.8	
	HOLL	22 1454	1504	1534	N18	W13	7232	07 21.6	40	SF	4 E		38		F
	SVTO	22 1456	1504	1537	N19	W12	7232	07 21.7	41	SF	3 E		31		FH
0367		22 1500	1507	1526	N22	W64	7229	07 17.7	26	SF B 8.0			113		FH
	HOLL	22 1500	1509	1531	N22	W64	7229	07 17.7	31	SF B 8.0	4 E		59		F
	SVTO	22 1500	1510	1532	N21	W65	7229	07 17.6	32	SF	3 E		51		H
	HTPR	22 1501	1507	1515	N23	W64	7229	07 17.7	14	1F	C	1507	230		
0368		22 1734	1740	1753	N22	W66	7229	07 17.6	19	SF B 4.2			45		FH
	HOLL	22 1734	1740	1754	N22	W66	7229	07 17.6	20	SF B 4.2	4 E		54		
	PALE	22 1737	1741	1756	N22	W66	7229	07 17.7	19	SF	3 E		66		F
	RAMY	22 1741	1741	1748	N22	W66	7229	07 17.7	7	SF	2 E		15		FH
		22 2201		2239	No Flare Patrol										
		22 2345		2400	No Flare Patrol										
0369		23 0137*	0139*	0200	S18	W67	7234	07 18.0	23	SF			50		EJ
	VORO	23 0137	0139	0151	S18	W69	7234	07 17.8	14	SF	1 C	0139	81		EJ
	LEAR	23 0148	0150	0209	S19	W65	7234	07 18.1	21	SF	3 E		19		
0370	KANZ	23 0721	0721	0729	S22	W71	7234	07 17.8	8	SF	2 C				
0371	HTPR	24 1328		1410	N20	W90	7229	07 17.7	42	SF	C				
0372	HTPR	24 1435		1455	S14	W90	7234	07 17.8	20	SN	C				
		24 1842		1846	No Flare Patrol										
		24 2203		2224	No Flare Patrol										
0373	SVTO	25 0554	0555	0602	S19	E69	7238	07 30.5	8	SF B 4.4	3 E		18		
0374	HTPR	25 0923	0927	0933	S27	E60	7238	07 30.1	10	SB	C	0927	90		D
0375	HTPR	25 1153		1215	N13	E88	7241	08 1.1	22	1B	C				A
0376		25 1736	1746	1810	N18	W37	7236	07 22.9	34	SF B 4.1			76	2.2	EFH
	HOLL	25 1736	1746	1817	N18	W39	7236	07 22.8	41	SF B 4.1	3 E		46		FH
	RAMY	25 1744	1744	1801	N18	W38	7236	07 22.8	17	SF	3 E		11		FH
	HTPR	25 1751E		1813	N18	W33	7236	07 23.2	22D	1N	C	1753	170	2.2	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CHD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
		25	2211		2243			No Flare Patrol											
		25	2245		2302			No Flare Patrol											
0377	MITK	26	0147	0148	0152	S25	E59	7238	07	30.6	5	1N			C	0148	21		E
0378		26	08181	08181	0828	S22	E60	7238	07	30.9	10	SF C 1.3					46	1.8	EFH
	KHAR	26	0818E		0827	S21	E60	7238	07	30.9	9D	SF	2	V		0820			H
	SVTO	26	0818	0818	0824	S22	E60	7238	07	30.9	6	SF	3	E			20		F
	KANZ	26	0818	0818	0830	S22	E60	7238	07	30.9	12	SF	2	C					
	LEAR	26	0818	0819	0826	S22	E60	7238	07	30.9	8	SF C 1.3	3	E			39		F
	ONDR	26	0819	0824U	0832	S24	E58	7238	07	30.8	13	SF		P		0824	78	1.8	E
0379	KANZ	26	1106	1106	1118	S19	E50	7238	07	30.3	12	SF		2	C				
0380		26	11501	11573	1232	N17	W48	7236	07	22.8	42	SF					30		FU
	SVTO	26	1150	1200	1234	N16	W49	7236	07	22.8	44	SF	3	E			35		U
	RAMY	26	1151	1157	1230	N18	W48	7236	07	22.8	39	SF	3	E			25		F
0381		26	12062	12122	1228	S21	E58	7238	07	30.9	22	SF C 2.6					48		EFH
	RAMY	26	1206	1214	1228	S21	E58	7238	07	30.9	22	SF C 2.6	3	E			44		FE
	SVTO	26	1208	1212	1227	S20	E59	7238	07	31.0	19	SF	3	E			51		H
	KANZ	26	1220E	1220U	1228	S21	E57	7238	07	30.9	8D	SF	2	C					
0382		26	13253	13432	1401	N14	W60	7232	07	22.0	36	SF					20		
	SVTO	26	1325	1343	1401	N14	W61	7232	07	21.9	36	SF	3	E			20		
	KANZ	26	1328	1345	1401	N14	W60	7232	07	22.0	33	SF	2	C					
0383		26	14121	14152	1426	N14	W61	7232	07	22.0	14	SF					15		F
	SVTO	26	1412	1415	1426	N13	W62	7232	07	21.9	14	SF	3	E			15		F
	KANZ	26	1413	1417	1421D	N14	W60	7232	07	22.0	8D	SF	2	C					
		26	2339		2348			No Flare Patrol											
		26	2354		2400			No Flare Patrol											
		27	0000		0002			No Flare Patrol											
0384		27	02254	02373	0258	S21	E45	7238	07	30.5	33	SN B 6.4					40	0.7	DF
	LEAR	27	0225	0240	0300	S20	E45	7238	07	30.5	35	SF B 6.4	3	E			39		F
	MITK	27	0229	0237	0256	S22	E45	7238	07	30.6	27	SB		C		0237	42	0.7	D
0385	ABST	27	0507	0513U	0524D	S20	E42	7238	07	30.4	17D	SN		P		0513	96	1.5	F
0386	LEAR	27	0513	0515	0519	N13	E63	7241	08	1.0	6	SF	3	E			18		
0387		27	06033	06072	0635	S20	E43	7238	07	30.5	32	1F C 3.5					109	1.2	EFH
	LEAR	27	0603	0607	0642	S18	E42	7238	07	30.4	39	1F C 3.5	3	E			166		F
	SVTO	27	0605	0608	0642	S20	E44	7238	07	30.6	37	1F	3	E			121		FH
	KANZ	27	0605E	0609	0641	S19	E43	7238	07	30.5	36D	1F	2	C					
	ONDR	27	0606	0609	0626	S20	E41	7238	07	30.4	20	SN		P		0609	71	1.1	E
	YUNN	27	0617E	0617U	0625	S21	E44	7238	07	30.6	8D	SN		P		0617	79	1.3	E
0388	KHAR	27	1115U		1115U	S17	E35	7238	07	30.1	8U	SF	2	V					DH
0389		27	11318	1131*	1148	S20	E39	7238	07	30.5	17	SF B 2.0					25		F
	SVTO	27	1131	1131	1137	S18	E38	7238	07	30.4	6	SF B 2.0	3	E			16		F
	KANZ	27	1131E	1131U	1151	S20	E40	7238	07	30.5	20D	SF	2	C					
	SVTO	27	1139	1143	1155	S21	E40	7238	07	30.5	16	SF B 3.3	3	E			34		F
0390		27	13214	13272	1348	N14	W74	7232	07	22.0	27	SF B 9.4					34		F
	SVTO	27	1321	1327	1348	N13	W74	7232	07	22.0	27	SF B 9.4	3	E			34		F
	KANZ	27	1325	1329	1347	N14	W73	7232	07	22.0	22	SF	2	C					
0391		27	14181	14213	1428	N14	W74	7232	07	22.0	10	SF B 4.8					19		
	SVTO	27	1418	1421	1428	N14	W75	7232	07	21.9	10	SF B 4.8	3	E			19		
	KANZ	27	1419	1424	1428	N14	W73	7232	07	22.1	9	SF	2	C					
0392		27	15132	15142	1532	N17	W65	7236	07	22.7	19	SN C 1.0					42		EF
	RAMY	27	1513	1514	1530	N18	W64	7236	07	22.8	17	SF	3	E			28		F
	SVTO	27	1513	1514	1536	N16	W65	7236	07	22.7	23	SN	3	E			47		
	HOLL	27	1513	1516	1536	N18	W66	7236	07	22.6	23	SN C 1.0	4	E			51		E
	KANZ	27	1515	1515	1527	N16	W64	7236	07	22.8	12	SF	2	C					

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0393	HOLL	27	1628	1628	1643	N15	W76	7232	07 21.9	15	SF		3	E		23		
		27	2319		2343	No Flare Patrol												
		28	2149		2152	No Flare Patrol												
0394	HTPR	29	1127	1131	1135	S20	E05	7238	07 29.8	8	SN			C	1131	50	0.6	DH
0395		29	15041	15041	1511	N16	W90		07 22.8	7	SF	C 1.3				21		
	HOLL	29	1504	1504	1509	N17	W91		07 22.7	5	SF	C 1.3	4	E		21		
	KANZ	29	1505	1505	1513	N16	W90		07 22.8	8	SF		2	C				
0396	HOLL	29	1715	1718	1729	S14	W44	7240	07 26.4	14	SF		3	E		34		
0397	HOLL	29	1932	1936	1938	N20	E48	7242	08 2.5	6	SF	C 1.3	3	E		11		
		29	2158		2226	No Flare Patrol												
		29	2228		2259	No Flare Patrol												
0398		30	04462	04492	0456	S21	W02	7238	07 30.0	10	SN	B 6.3				76	1.2	DEH
	TACH	30	0445E	0447U	0459D	S21	W01	7238	07 30.1	14D	SB		3	C	0447	173	2.0	D
	WATU	30	0446	0449	0455	S21	W02	7238	07 30.0	9	SB			C	0449	40	0.5	E
	LEAR	30	0448	0450	0457	S20	W02	7238	07 30.0	9	SF	B 6.3	3	E		61		H
	SVTO	30	0448	0451	0456	S22	W01	7238	07 30.1	8	SF		3	E		32		H
0399	SVTO	30	0454	0500	0527	N09	W67	7243	07 25.2	33	SF		3	E		12		
0400		30	0627*	0716	0712	N12	W71	7243	07 24.9	45	SN					30	0.8	D
	LEAR	30	0627	0716	0725	N12	W69	7243	07 25.1	58	SF		3	E		34		
	ONDR	30	0642	0652U	0700	N13	W73	7243	07 24.8	18	SN			P	0652	25	0.8	D
0401	KANZ	30	0820	0824	0828	S20	W04	7238	07 30.0	8	SF		2	C				
0402	HOLL	30	1614	1618	1706	S07	E86	7245	08 6.1	52	SF		3	E		20		
0403	HOLL	30	1715	1717	1720	N16	E34	7242	08 2.3	5	SF		3	E		23		
0404	HOLL	30	1856	1859	1907	N16	E33	7242	08 2.3	11	SF		3	E		29		
0405	HOLL	30	2135	2136	2139	N20	E34	7242	08 2.5	4	SF	B 2.5	3	E		12		
		30	2153		2209	No Flare Patrol												
0406		30	2235E	2238	2247	N20	E34	7242	08 2.5	12D	SF	C 3.2				57	0.8	DFIJ
	HOLL	30	2235E	2235U	2300D	N19	E33	7242	08 2.4	25D	SF		3	E		45		F
	PALE	30	2237E	2237U	2250D	N20	E34	7242	08 2.5	13D	SF	C 3.2	3	E		62		F
	VORO	30	2238E	2238	2247	N20	E35	7242	08 2.6	9D	SN		1	C	2238	63	0.8	DIJ
0407	SVTO	31	0509	0510	0519	N16	E28	7242	08 2.3	10	SF		3	E		14		H
0408	YUNN	31	0634	0638	0645	N19	E27	7242	08 2.3	11	SN			C		47	0.6	E
0409	HTPR	31	1122	1127	1135	N17	E27	7242	08 2.5	13	SF			C	1127	90	1.0	DH
0410		31	11546	1157*	1228	S17	W16	7238	07 30.3	34	SF	B 7.3				78	1.9	EFH
	RAMY	31	1154	1157	1219	S15	W16	7238	07 30.3	25	SF		3	E		21		F
	HTPR	31	1158	1204	1230	S17	W17	7238	07 30.2	32	SN			C	1204	180	1.9	EH
	KANZ	31	1200	1204	1220	S17	W16	7238	07 30.3	20	SF		2	C				
	SVTO	31	1200	1208	1245	S18	W16	7238	07 30.3	45	SF	B 7.3	3	E		34		FH
0411		31	13266	1332*	1351	N20	E25	7242	08 2.5	25	SN	C 2.8				95	1.9	EF
	HTPR	31	1326	1332	1350	N19	E27	7242	08 2.6	24	SB			C	1332	180	1.9	E
	RAMY	31	1330	1334	1349	N20	E26	7242	08 2.5	19	SF	C 2.8	4	E		53		FE
	HOLL	31	1330E	1335U	1400	N20	E25	7242	08 2.5	30D	SN		3	E		92		E
	SVTO	31	1330	1342	1350	N21	E24	7242	08 2.4	20	SF		3	E		55		F
	KANZ	31	1332	1332	1348	N21	E25	7242	08 2.5	16	1F		2	C				
0412	HTPR	31	1457	1505	1530	N12	W80	7243	07 25.6	33	SF			C				
0413	HTPR	31	1606		1630	N23	E90		08 7.6	24	SN			C				

H α SOLAR FLARES25
Jul 92

JULY 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			31 1810		1819			No Flare	Patrol										
			31 2058		2104			No Flare	Patrol										
			31 2144		2233			No Flare	Patrol										

"Remarks"

A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

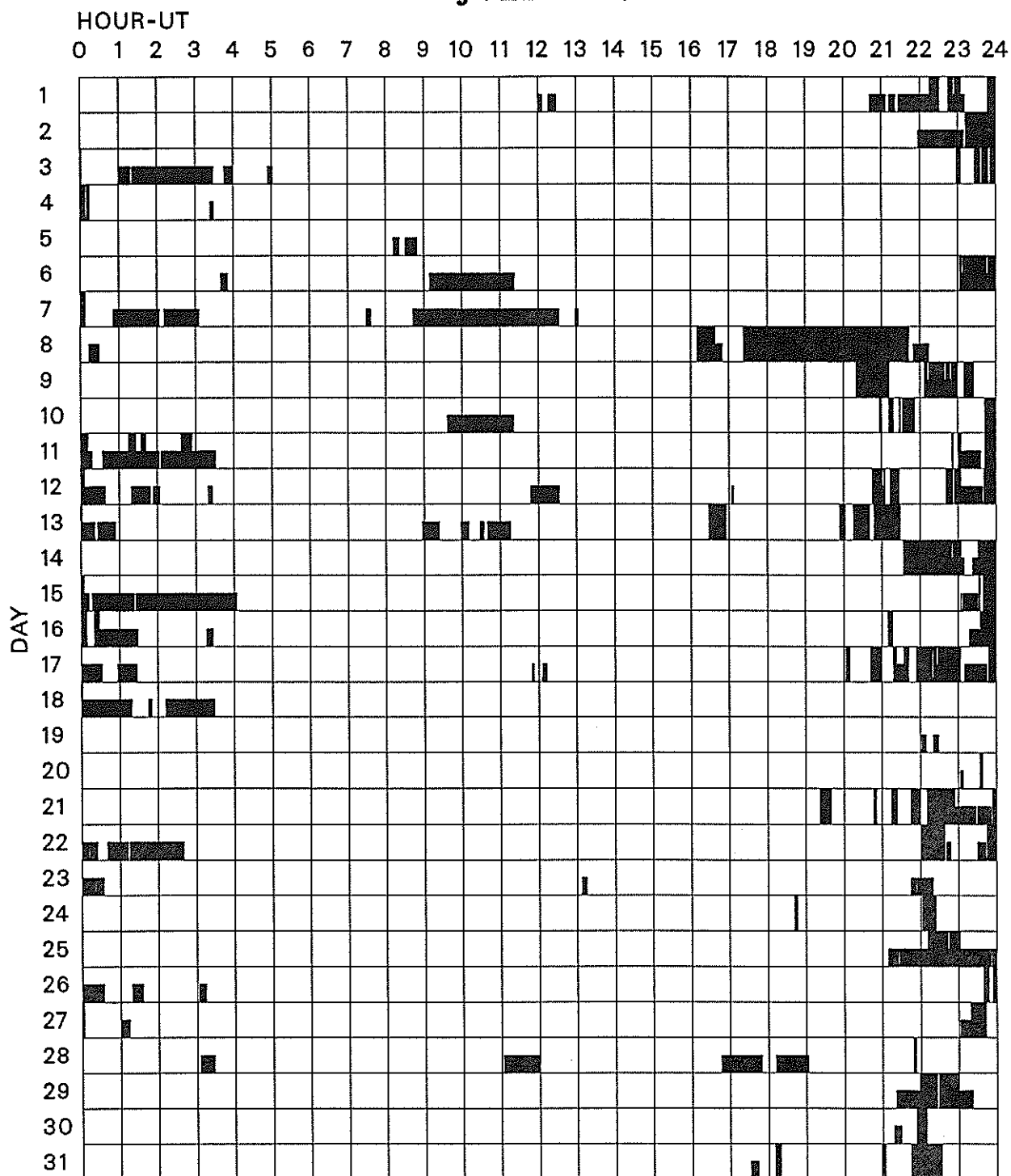
O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows Helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

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

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Jul 92

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

JULY 1992



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.

Abastumani
Athens
Bucharest
Haute Provence

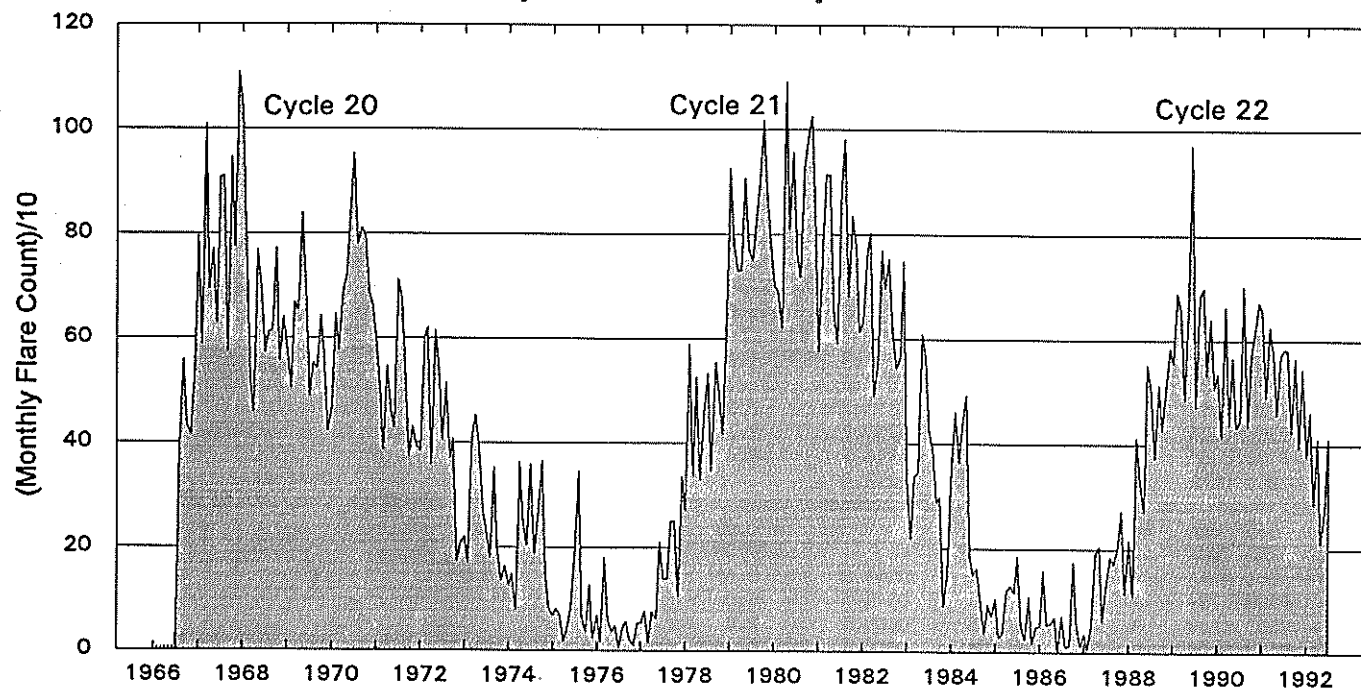
Holloman
Hurbanovo
Istanbul
Kandilli

Kanzelhoehe
Kharkov
Learmonth
Mitaka

Ondrejov
Palehua
Peking
Ramey
San Vito

Tashkent
Urumqi
Voroshilov
Watukosek
Yunnan

Monthly Counts of Grouped Solar Flares



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1966	--	--	--	--	--	--	--	391	558	432	417	543	2341
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	508	584	4803
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664	439	565	433	447	703	436	569	619	672	6498
1991	659	491	625	570	458	573	582	581	425	565	396	544	6469
1992	380	462	287	412	214	271	413						2439

Monthly totals for the last 6 months may change significantly, as more stations submit their reports. The term "grouped" means that observations of the same event by different sites have been lumped together and counted as one.

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Jul 92

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

Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
01	200	HIRA	44 NS	0000.0E	0016.0	600.0D	40.0	18.0	0	
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	235	CUBA	44 NS	1306.0E		534.0D		12.0		
	280	CUBA	44 NS	1306.0E		534.0D		17.0		
	2850	CRIM	4 S/F	0406.0	0407.8	7.0	74.5			
	260	ONDR	40 F	0630.0	0639.0	445.0	52.0			
	260	ONDR	40 F	0630.0	1307.4		54.0			
	9100	GORK	2 S/F	1148.4	1149.3	1.6	7.0			
	9500	CUBA	23 GRF	1256.0	1307.0	33.0	8.0	4.0		
	9300	KISV	2 S/F	1256.0	1256.7	2.0	9.0			
	9500	CUBA	1 S	1629.3	1630.2	2.7	9.0	4.0		
	9500	CUBA	3 S	1717.3	1718.5	8.0	8.0	4.0		
	245	SGMR	8 S	2258.0E	2258.0	U	52.0			
										QL=4 ST=2 TYP=3
02	235	CUBA	44 NS	1301.0E		479.0D		14.0	WL	
	280	CUBA	44 NS	1311.0E		479.0D		22.0		
	200	HIRA	44 NS	1945.0E	0511.0	850.0D	60.0	16.0		
	9300	KISV	2 S/F	0514.3	0515.5	3.0	6.0			
	9300	KISV	1 S	0604.3	0605.1	2.0	7.0			
	9100	GORK	1 S	0604.8	0605.1	0.9	5.0			
	9300	KISV	2 S/F	0626.4	0627.5	4.0	5.0			
	260	ONDR	40 F	0630.0	0812.0	270.0	40.0			
	200	GORK	4 S/F	0724.5	0724.7	1.0	460.0			
	2950	GORK	22 GRF	0900.8	0910.0	78.7	8.0			
	9300	KISV	20 GRF	1036.3	1037.3	12.4	9.0			
	2950	GORK	2 S/F	1036.7	1038.2	3.6	4.0			
	9500	CUBA	21 GRF	1317.0	1324.0	17.0	8.0	4.0		
	9500	CUBA	1 S	1320.2	1321.0	2.4	8.0	4.0		
	9300	KISV	2 S/F	1326.3	1328.5	4.5	14.0			
	9500	CUBA	2 S/F	1328.5	1330.0	1.9	8.0	4.0		
	260	ONDR	40 F	1350.0	1644.3	220.0	76.0			
	9500	CUBA	1 S	1422.4		0.6	11.0	5.0		
	245	PALE	8 S	1646.0E	1646.0	U	67.0			
	245	PALE	8 S	1949.0E	1949.0	U	66.0			
	245	SGMR	8 S	1949.0E	1949.0	U	70.0			
	245	SGMR	8 S	2135.0E	2135.0	1.0D	54.0			
	410	PALE	8 S	2213.0E	2214.0	1.0D	70.0			
	410	SGMR	8 S	2214.0E	2214.0	U	56.0			
	245	SGMR	8 S	2229.0E	2229.0	2.0D	83.0			
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=4 ST=2 TYP=3
03	245	LEAR	44 NS	0352.0E	0631.0	255.0D	88.0		V=0	QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0453.0E	0928.0	378.0D	150.0			
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	260	ONDR	44 NS	0630.0E	1156.2		176.0			
	260	ONDR	44 NS	0630.0E	1020.5	390.0D	172.0			
	127	TORN	44 NS	0910.0E	1103.0	290.0D	10.0	2.0		
	245	SGMR	44 NS	1015.0E	1042.0	125.0D	98.0			
	235	CUBA	44 NS	1306.0E		534.0D		15.0		
	280	CUBA	44 NS	1306.0E		534.0D		19.0		
	245	PALE	8 S	0345.0E	0345.0	1.0D	180.0			
	9100	GORK	22 GRF	0349.7	0530.0U	205.3	7.0			
	2950	GORK	22 GRF	0403.0	0605.0	201.0	9.0			
	950	GORK	21 GRF	0852.9	0853.1	124.1	10.0			
	9100	GORK	21 GRF	0857.0	0957.0	123.0D	60.0			
	2950	GORK	21 GRF	0857.0	0957.0	123.0D	37.0			
	9300	KISV	23 GRF	0903.0	0950.0U	262.0	90.0D			
	950	GORK	2 S/F	0932.0	0935.8	4.8	5.0			
	2695	SVTO	4 S/F	0945.0E	0948.0	8.0D	190.0			
	4995	SVTO	4 S/F	0945.0E	0948.0	19.0D	280.0			
	9100	GORK	4 S/F	0945.0	0948.5	12.0	142.0			
	2950	GORK	4 S/F	0945.0	0948.8	12.0	150.0			
	950	GORK	46 C	0945.7	0949.1	7.4	34.0			
	950	GORK	46 C	0945.7	0950.2		56.0			
	8800	SVTO	4 S/F	0946.0E	0948.0	18.0D	160.0			
	650	GORK	2 S/F	0946.7	0949.9	6.2	5.0			
	15400	SVTO	4 S/F	0947.0E	0948.0	17.0D	85.0			
	1415	SVTO	4 S/F	0948.0E	0949.0	3.0D	55.0			
	808	ONDR	45 C	0948.5	0951.0	5.0	66.0			
	8800	SGMR	4 S/F	0951.0E	0953.0	3.0D	47.0			
										QL=2 ST=2 TYP=3
										QL=4 ST=2 TYP=3
										QL=2 ST=2 TYP=3
										QL=2 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
03	4995	SGMR	4 S/F	0952.0E	0953.0	14.00	62.0			QL=2 ST=2 TYP=3
	2695	SGMR	4 S/F	0954.0E	0956.0	12.00	74.0			QL=2 ST=2 TYP=3
	1415	SGMR	4 S/F	0959.0E	1001.0	3.00	33.0			QL=2 ST=2 TYP=3
	650	GORK	4 S/F	1041.5	1041.8	0.6	26.0			
	950	GORK	4 S/F	1041.5	1041.8	0.6	15.0			
04	127	TORN	43 NS	0740.0		370.0		2.0		V=1
	280	CUBA	44 NS	1305.0E		416.00		17.0		
	235	CUBA	44 NS	1305.0E		415.00		14.0		
	9300	KISV	2 S/F	0633.0	0634.2	3.5	7.0			
	9100	GORK	1 S	0633.5	0634.2	1.5	5.0			
	2840	PEKG	4 S/F	0655.0	0656.1	2.0	23.1			
	260	ONDR	41 F	0740.0	1038.0	240.0	62.0			
05	127	TORN	43 NS	0940.0		266.0		2.0		V=0
	235	CUBA	44 NS	1306.0E		534.00		11.0		
	280	CUBA	44 NS	1306.0E		534.00		19.0		
	9100	GORK	1 S	0547.4	0547.8	1.2	4.0			
	6700	CUBA	21 GRF	1811.0	1850.0	269.00	14.0			SUNSET
	9500	CUBA	1 S	2218.3	2219.5	4.7	21.0	10.0		
06	127	TORN	43 NS	0855.0		277.0		3.0		V=1
	9100	GORK	4 S/F	0335.4	0336.3	3.6	8.0			
	2950	GORK	2 S/F	0335.6	0336.4	2.4	6.0			
	9300	KISV	24 R	0400.0E	0512.0		40.0			
	2950	GORK	20 GRF	0506.0	0704.0	276.0	10.0			
	950	GORK	1 S	0629.6	0629.7	0.4	3.0			
	650	GORK	1 S	0629.6	0629.8	0.4	1.0			
	200	GORK	4 S/F	0745.1	0746.3	2.5	400.0			
	650	GORK	20 GRF	0945.9	1051.0		2.0			
	2950	GORK	22 GRF	1112.8	1149.0	65.20	8.0			
	650	GORK	2 S/F	1148.7	1150.7	2.6	5.0			
	33	UPIC	4 S/F	1323.5	1324.8	2.2				
07	127	TORN	43 NS	0806.0		370.0		2.0		V=0
	9300	KISV	22 GRF	0459.0	0503.2	138.0	12.0			
	2850	CRIM	7 C	0522.4		5.6	14.0	5.0		
	2850	CRIM	29 PBI	0522.4	0528.0	24.0	5.0	2.0		
	2850	CRIM	7 C	0522.4	0526.7		15.0			
	200	GORK	4 S/F	0643.9	0644.9	1.9	280.0			
	260	ONDR	41 F	0710.0	1421.2	600.0	41.0			
	2950	GORK	20 GRF	0806.0	0847.5	69.8	6.0			
	200	GORK	4 S/F	0838.1	0843.0	9.4	400.0			
	2950	GORK	1 S	0957.5	0958.0	1.1	3.0			
	9300	KISV	23 GRF	1109.5	1137.4	90.0	40.0			
	9100	GORK	20 GRF	1113.4	1143.7	46.60	39.0			
	33	UPIC	32 ABS	1131.0	1140.0		42.0			
	8800	SVTO	20 GRF	1132.0E	1143.0	38.00	41.0			QL=4 ST=2 TYP=2
	15400	SGMR	20 GRF	1136.0E	1137.0	18.00	38.0			QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	1137.0E	1137.0	15.00	31.0			QL=4 ST=2 TYP=2
	4995	SVTO	20 GRF	1138.0E						

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Jul 92

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

Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
08	2950	GORK	21 GRF	0933.0	1003.0	147.0D	18.0			
	33	UPIC	3 S	0941.7	0941.9	0.3				
	9300	KISV	29 PBI	0942.0	0955.0	133.5	68.0			
	9300	KISV	4 S/F	0942.0	0948.0U	13.0	106.0D			
	9100	GORK	47 GB	0942.0	0946.6	21.0	5400.0			
	950	GORK	20 GRF	0943.1	0948.6	35.7	11.0			
	8800	SVTO	49 GB	0944.0E	0946.0	22.0D	4100.0			QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0944.0E	0946.0	22.0D	4200.0			QL=4 ST=2 TYP=6
	2840	PEKG	47 GB	0944.0	0947.7	12.0	734.2			
	2950	GORK	4 S/F	0944.6	0947.7	18.4	770.0			
	2695	SVTO	49 GB	0945.0E	0947.0	14.0D	820.0			QL=2 ST=2 TYP=6
	4995	SVTO	49 GB	0945.0E	0947.0	21.0D	2600.0			QL=4 ST=2 TYP=6
	33	UPIC	32 ABS	0945.0	0949.0	42.0				
	650	GORK	20 GRF	0945.9	0951.0	18.1	2.0			
	1415	SVTO	4 S/F	0946.0E	0948.0	7.0D	120.0			QL=4 ST=2 TYP=3
	610	SVTO	20 GRF	0947.0E	0952.0	10.0D	180.0			QL=2 ST=2 TYP=2
	33	UPIC	3 S	0954.8	0954.9	0.2				
	4995	SGMR	20 GRF	0955.0E	0958.0	8.0D	49.0			QL=2 ST=2 TYP=2
	2695	SGMR	20 GRF	0956.0E	0958.0	6.0D	45.0			QL=2 ST=2 TYP=2
	8800	SGMR	20 GRF	0958.0E	0958.0	1.0D	33.0			QL=2 ST=2 TYP=2
	9100	GORK	29 PBI	1003.0	1003.0	117.0D	39.0			
	536	ONDR	46 C	1016.6	1017.8	3.0	78.0			
	33	UPIC	42 SER	1103.0	1157.3	87.0				
	950	GORK	4 S/F	1148.6	1150.8	2.7	16.0			
	650	GORK	2 S/F	1148.7	1150.7	2.6	5.0			
	808	ONDR	46 C	1149.0	1150.7	3.0	76.0			
	536	ONDR	46 C	1149.0	1150.7	3.5	90.0			
	410	SGMR	8 S	1220.0E	1220.0	U	72.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1220.0E	1220.0	U	62.0			QL=4 ST=2 TYP=3
	536	ONDR	46 C	1220.0	1221.2	2.2	93.0			
	808	ONDR	45 C	1220.7	1221.0	2.0	75.0			
	410	SGMR	8 S	1252.0E	1253.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1253.0E	1253.0	U	110.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	1344.2	1352.5	21.8				
	536	ONDR	46 C	1400.0	1402.0	2.2	70.0			
	245	SGMR	8 S	1422.0E	1422.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1422.0E	1422.0	1.0D	150.0			QL=4 ST=2 TYP=3
	808	ONDR	4 S/F	1452.3	1452.4	1.2	89.0			
	33	UPIC	42 SER	1531.3		97.7				
	245	SGMR	8 S	1532.0E	1533.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1532.0E	1533.0	1.0D	93.0			QL=4 ST=3 TYP=3
	245	SGMR	4 S/F	1552.0E	1552.0	3.0D	67.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1552.0E	1552.0	4.0D	61.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1629.0E	1630.0	1.0D	250.0			QL=2 ST=2 TYP=3
	2695	PALE	4 S/F	1629.0E	1637.0	9.0D	53.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1629.0E	1630.0	1.0D	590.0			QL=4 ST=3 TYP=6
	245	SVTO	8 S	1629.0E	1630.0	1.0D	480.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1630.0E	1637.0	8.0D	23.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1630.0E	1630.0	U	29.0			QL=4 ST=3 TYP=3
	2695	SVTO	8 S	1630.0E	1630.0	U	26.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1645.0E	1645.0	1.0D	380.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1645.0E	1645.0	U	89.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	1645.0E	1648.0	4.0D	27.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1645.0E	1645.0	1.0D	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1645.0E	1645.0	1.0D	340.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1645.0E	1645.0	1.0D	190.0			QL=4 ST=2 TYP=3
	536	ONDR	4 S/F	1645.3	1645.7	0.6	48.0			
	1415	PALE	8 S	1654.0E	1654.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1654.0E	1654.0	U	160.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1710.0E	1711.0	2.0D	96.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1710.0	1711.5	2.5	60.0	5.0		QL=4 ST=2 TYP=3
	610	PALE	8 S	1711.0E	1711.0	U	92.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	1711.0E	1711.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1838.0E	1838.0	1.0D	250.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1838.0E	1838.0	1.0D	240.0			QL=4 ST=2 TYP=3
09	245	LEAR	44 NS	0604.0E	0611.0	24.0D	130.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0607.0E	0609.0	32.0D	93.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0620.0E		360.0D		4.0		V=0

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

Outstanding Occurrences

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Jul 92

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
09	280	CUBA	44 NS	1300.0E		540.00		20.0		
	235	CUBA	44 NS	1300.0E		540.00		13.0		
	2840	PEKG	20 GRF	0255.0	0301.0	18.0	8.4			
	2950	GORK	22 GRF	0327.0E	0612.0	273.00	14.0			
	950	GORK	1 S	0351.0	0352.2	3.0	2.0			
	950	GORK	20 GRF	0551.0	0616.0	121.0	8.0			
	650	GORK	22 GRF	0551.0	0617.0	189.0	14.0			
	2850	CRIM	4 S/F	0621.0		1.0	100.0	3.0		
	2850	CRIM	29 PBI	0621.0	0634.0	60.0	6.0	2.0		
	260	ONDR	40 F	0700.0	0930.0		58.0			
	260	ONDR	40 F	0700.0	0750.0		74.0			
	260	ONDR	40 F	0700.0	0711.3	550.0	79.0			
	260	ONDR	40 F	0700.0	1025.5		62.0			
	9500	CUBA	1 S	1321.5	1321.9	2.4	26.0	13.0		
	33	UPIC	8 S	1331.0	1331.3	0.5				
	33	UPIC	4 S/F	1521.0	1521.1	0.4				
	9500	CUBA	2 S/F	1606.3	1608.8	7.1	22.0	11.0		
	9500	CUBA	4 S/F	1633.1	1639.0	9.9	383.00			
	15400	SGMR	4 S/F	1635.0E	1638.0	24.00	350.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	1635.0E	1638.0	23.00	420.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1635.0E	1638.0	26.00	480.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1635.0E	1638.0	30.00	330.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1636.0E	1638.0	22.00	430.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1636.0E	1638.0	25.00	350.0			QL=4 ST=2 TYP=3
	33	UPIC	32 ABS	1636.0	1644.0	30.0				
	2695	SGMR	4 S/F	1637.0E	1638.0	4.00	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1637.0E	1638.0	8.00	170.0			QL=2 ST=2 TYP=3
	8800	PALE	4 S/F	1637.0E	1647.0	15.00	100.0			QL=2 ST=2 TYP=3
	4995	PALE	4 S/F	1637.0E	1638.0	15.00	110.0			QL=2 ST=2 TYP=3
	15400	PALE	4 S/F	1637.0E	1638.0	45.00	320.0			QL=2 ST=2 TYP=5
	9500	CUBA	29 PBI	1643.0		64.0	84.0	47.0		
	245	SGMR	8 S	1814.0E	1814.0	1.00	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	2050.3	2050.8	3.2	12.0	6.0		
10	260	ONDR	43 NS	0720.0	0938.1		386.0			
	260	ONDR	43 NS	0720.0	0744.5	560.0	312.0			
	127	TORN	43 NS	0736.0		374.0		1.0		V=0
	280	CUBA	44 NS	1321.0E		459.00		19.0		
	235	CUBA	44 NS	1321.0E		539.00		13.0		
	9100	GORK	1 S	0339.3	0339.6	2.7	5.0			
	410	LEAR	8 S	0622.0E	0623.0	2.00	33.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0622.0E	0623.0	2.00	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0622.0E	0623.0	1.00	58.0			QL=4 ST=2 TYP=3
	200	GORK	41 F	0622.0	0623.2	7.6	170.0			
	9100	GORK	2 S/F	0622.9	0625.6	7.1	13.0			
	245	SVTO	8 S	0623.0E	0623.0	U	140.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0623.0	0625.6	6.3	5.0			
	2840	PEKG	5 S	0623.0	0625.9	8.0	5.6			
	650	GORK	4 S/F	0623.1	0627.6	6.5	100.0			
	950	GORK	4 S/F	0623.1	0625.8	6.4	70.0			
	610	LEAR	4 S/F	0627.0E	0627.0	1053.00	110.0			QL=4 ST=1 TYP=3
	200	GORK	41 F	0627.6			330.0			
	9100	GORK	23 GRF	0712.0	1130.0U	258.0	13.0			
	9100	GORK	42 SER	0742.0	0938.4		7.0			
	9100	GORK	42 SER	0742.0	0827.5		7.0			
	9100	GORK	42 SER	0742.0	0744.9	138.0	6.0			
	2950	GORK	2 S/F	0742.8	0745.0	6.5	4.0			
	200	GORK	4 S/F	0742.9	0745.6	5.7	830.0			
	245	LEAR	8 S	0743.0E	0743.0	1.00	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0743.0E	0743.0	1.00	230.0			QL=4 ST=2 TYP=3
	536	ONDR	46 C	0743.0	0748.1	6.0	81.0			
	245	LEAR	8 S	0747.0E	0747.0	U	140.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0826.6	0827.6	1.7	3.0			
	950	GORK	1 S	0826.8	0827.6	1.3	2.0			
	650	GORK	1 S	0826.8	0827.6	1.3	2.0			
	2950	GORK	23 GRF	0837.2	1109.0	172.80	8.0			
	2950	GORK	1 S	0855.9	0857.0	4.1	7.0			
	9300	KISV	46 C	0937.2	0938.3		17.0			
	9300	KISV	46 C	0937.2	0940.5	8.0	25.0			

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SOLAR RADIO EMISSION Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	2950	GORK	2 S/F	0937.2	0937.7	3.9	6.0			
	127	TORN	7 C	0937.4	0937.6	0.9	50.0	20.0		
	950	GORK	1 S	0937.4	0937.9	2.8	4.0			
	9300	KISV	2 S/F	0947.3	0951.5	9.0	7.0			
	33	UPIC	45 C	1148.5	1148.6	1.5				
	9500	CUBA	21 GRF	2027.0	2059.0	54.0	15.0	7.0		
	9500	CUBA	45 C	2027.5	2027.7	2.5	35.0	19.0		
11	260	ONDR	44 NS	0700.0E	1341.3	610.0D	250.0			
	245	SGMR	44 NS	2131.0E	2133.0	79.0D	120.0			QL=4 ST=2 TYP=1
	410	PALE	8 S	0001.0E	0001.0	U	59.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0102.0	0104.3	5.0	7.4			
	410	LEAR	8 S	0140.0E	0140.0	U	76.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0140.0E	0140.0	1.0D	55.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0231.0	0233.7	6.0	14.2			
	9300	KISV	22 GRF	0421.0	0427.8	11.0	13.0			
	9100	GORK	2 S/F	0427.4	0427.8	5.2	9.0			
	9300	KISV	8 S	0446.5	0446.8	0.4	43.0			
	2840	PEKG	1 S	0506.0	0507.3	4.0	6.8			
	2950	GORK	1 S	0506.9	0507.4	2.1	4.0			
	2840	PEKG	1 S	0528.0	0529.0	3.0	5.1			
	9300	KISV	4 S/F	0528.3	0528.9	4.0	43.0			
	9100	GORK	4 S/F	0528.4	0529.0	2.0	34.0			
	2950	GORK	1 S	0528.6	0529.0	0.8	3.0			
	9100	GORK	22 GRF	0618.0	0830.0U	168.0	5.0			
	2950	GORK	20 GRF	0826.6	0830.5	7.7	4.0			
	9300	KISV	2 S/F	1006.9	1010.2	8.0	4.0			
	9300	KISV	45 C	1047.5	1048.0	6.5	13.0			
	9300	KISV	45 C	1047.5	1049.1		8.0			
	9300	KISV	20 GRF	1146.1	1150.2	13.5	9.0			
	33	UPIC	45 C	1229.0	1229.4	0.8				
	9300	KISV	2 S/F	1256.1	1257.2	7.4	20.0			
	9300	KISV	1 S	1310.6	1311.3	2.5	10.0			
	245	SGMR	8 S	1343.0E	1343.0	U	130.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1401.7	1401.9	0.5				
	245	SGMR	4 S/F	1456.0E	1457.0	5.0D	190.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1457.1	1457.5	0.9				
	245	SGMR	8 S	1507.0E	1507.0	U	50.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1508.5	1508.6	0.4				
	2800	PENT	3 S	1517.2	1519.6	6.3	22.8	9.0		
	4995	SGMR	4 S/F	1518.0E	1519.0	3.0D	73.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1518.0E	1519.0	4.0D	64.0			QL=4 ST=2 TYP=3
	536	ONDR	46 C	1518.0	1519.2	2.5	98.0			
	2695	SVTO	8 S	1519.0E	1519.0	1.0D	31.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1519.0E	1519.0	1.0D	33.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1523.5	1523.5	35.0	8.4	4.0		
	410	SGMR	8 S	1915.0E	1916.0	1.0D	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2347.0E	2347.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2347.0E	2347.0	U	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2351.0E	2351.0	U	56.0			QL=4 ST=2 TYP=3
12	245	LEAR	44 NS	0010.0E	0030.0	1230.0D	200.0			QL=4 ST=2 TYP=1
	245	PALE	44 NS	0027.0E	0037.0	167.0D	170.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0700.0E	1544.0		440.0			
	260	ONDR	44 NS	0700.0E	0913.5	600.0D	275.0			
	127	TORN	43 NS	0810.0		410.0		2.0		V=0
	280	CUBA	44 NS	1306.0E		549.0D		33.0		
	235	CUBA	44 NS	1306.0E		549.0D		27.0		
	245	SVTO	44 NS	1322.0E	1322.0	65.0D	63.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	1512.0E	1550.0	105.0D	410.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1514.0E	1554.0	155.0D	430.0			QL=4 ST=3 TYP=1
	410	SVTO	44 NS	1535.0E	1553.0	66.0D	290.0			QL=4 ST=2 TYP=1
	410	SGMR	44 NS	1536.0E	1542.0	63.0D	150.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1632.0	1637.0	77.0D	150.0			QL=4 ST=2 TYP=1
	410	PALE	44 NS	1634.0E	1638.0	26.0D	54.0			QL=4 ST=2 TYP=1
	2840	PEKG	5 S	0253.0	0255.9	8.0	5.7			
	9100	GORK	23 GRF	0336.0	0403.0	356.0D	8.0			
	9300	KISV	45 C	0355.1	0400.0	27.2	24.0			
	9300	KISV	45 C	0355.1	0406.6		20.0			

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

Outstanding Occurrences

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Jul 92

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
12	9100	GORK	2 S/F	0359.3	0400.0	2.8	4.0			
	9100	GORK	1 S	0406.0	0406.7	1.4	9.0			
	2840	PEKG	20 GRF	0631.0	0633.6	69.0	5.7			
	9300	KISV	2 S/F	0812.8	0813.7	3.1	6.0			
	9300	KISV	4 S/F	0819.1	0821.0	7.7	37.0			
	9100	GORK	4 S/F	0820.2	0821.1	3.5	27.0			
	9300	KISV	21 GRF	0900.1	0900.9	15.0	10.0			
	9100	GORK	2 S/F	0900.4	0900.9	1.9	7.0			
	9300	KISV	22 GRF	0926.2	0927.0		9.0			
	9300	KISV	22 GRF	0926.2	0939.3	27.7	11.0			
	536	ONDR	46 C	1038.0	1040.0	2.4	81.0			
	33	UPIC	42 SER	1120.5		34.2				
	410	SGMR	8 S	1204.0E	1204.0	1.00	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1217.0E	1217.0	U	72.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1242.0E	1313.0U	85.00	7.0			SUNRISE
	245	SGMR	4 S/F	1321.0E	1321.0	7.00	52.0			QL=4 ST=3 TYP=3
	9500	CUBA	1 S	1430.3	1431.0	1.7	3.0	1.0		
	536	ONDR	27 RF	1520.0	1600.0	95.0	105.0			
	600	HUMN	27 RF	1528.0	1559.0	100.0	21.0	8.0		
	245	SGMR	8 S	1550.0E	1550.0	U	380.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1931.0E	1932.0	1.00	110.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1931.0E	1932.0	3.00	100.0			QL=4 ST=2 TYP=3
	2800	PENT	22 GRF	2055.0	2113.1	86.0	19.2	8.0		
13	33	UPIC	43 NS	0407.0		737.5				
	127	TORN	44 NS	0620.0E		520.00		3.0		V=2
	260	ONDR	43 NS	0700.0	1249.0	570.0	195.0			
	245	SGMR	44 NS	1242.0E	1256.0	84.00	510.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	1248.0E	1248.0	78.00	230.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		540.00		17.0		
	280	CUBA	44 NS	1300.0E		540.00		21.0		
	9100	GORK	22 GRF	0248.0E	0300.0U	261.00	9.0			
	9300	KISV	2 S/F	0433.7	0434.0	1.9	5.0			
	100	GORK	41 F	0600.0	0606.1	23.4	12200.0			
	100	GORK	41 F	0600.0	0619.5		1400.0			
	200	GORK	41 F	0604.0	0606.1	19.5	160.0			
	200	GORK	41 F	0604.0	0619.5		500.0			
	650	GORK	4 S/F	0645.8	0647.2	2.6	20.0			
	245	LEAR	4 S/F	0701.0E	0705.0	4.00	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0705.0E	0705.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0713.0	0714.3	3.0	13.0			
	9300	KISV	2 S/F	0713.5	0714.2	6.9	8.0			
	9100	GORK	1 S	0714.1	0714.3	0.6	7.0			
	9300	KISV	46 C	0758.3	0802.3		31.0			
	9300	KISV	46 C	0758.3	0803.5		25.0			
	9300	KISV	46 C	0758.3	0802.5	25.5	31.0			
	9300	KISV	46 C	0758.3	0801.8		28.0			
	2840	PEKG	23 GRF	0759.0	0802.5	33.0	21.5			
	9100	GORK	22 GRF	0800.0	0802.4	18.0	19.0			
	8800	SVTO	8 S	0801.0E	0802.0	2.00	29.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0801.0E	0802.0	3.00	34.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0823.0E	0824.0	2.00	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0824.0E	0825.0	1.00	43.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	0922.1	0922.9	3.0	40.0			
	950	GORK	21 GRF	0922.5	1000.0	93.0	2.7			
	9300	KISV	22 GRF	0922.7	0924.1	92.3	15.0			
	9300	KISV	22 GRF	0922.7	0939.7		12.0			
	950	GORK	2 S/F	0923.8	0924.4	2.4	6.0			
	650	GORK	21 GRF	0925.1	1000.0	154.9	2.0			
	536	ONDR	5 S	0928.5	0929.0	1.0	98.0			
	650	GORK	2 S/F	0939.4	0939.7	0.8	7.0			
	9300	KISV	2 S/F	1031.9	1032.5	3.6	6.0			
	245	SGMR	8 S	1036.0E	1037.0	1.00	61.0			QL=4 ST=2 TYP=3
	9300	KISV	2 S/F	1124.8	1126.3	6.4	5.0			
	245	SGMR	8 S	1224.0E	1224.0	1.00	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1248.0E	1248.0	U	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1657.3	1657.9	1.7	18.0	9.0		
	2800	PENT	3 S	1657.4	1658.1	2.6	22.8	10.0		
	410	PALE	8 S	1739.0E	1739.0	U	53.0			QL=4 ST=2 TYP=3

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SOLAR RADIO EMISSION

Outstanding Occurrences

JULY 1992

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
13	245 PALE	8 S	1743.0E	1744.0	1.0D	61.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	1941.0E	1941.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1941.0E	1941.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2007.0E	2009.0	2.0D	100.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2008.0E	2009.0	1.0D	83.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2057.0E	2057.0	1.0D	88.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2057.0E	2057.0	U	75.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2112.0E	2112.0	U	54.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	2112.0E	2112.0	U	25.0			QL=4 ST=2 TYP=3
	245 PALE	4 S/F	2116.0E	2119.0	5.0D	380.0			QL=4 ST=2 TYP=5
	245 SGMR	4 S/F	2116.0E	2116.0	164.0D	96.0			QL=4 ST=2 TYP=3
	200 HIRA	42 SER	2116.0	2119.3	14.0	650.0			ML
	410 PALE	8 S	2118.0E	2118.0	U	93.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	2118.0E	2118.0	U	77.0			QL=4 ST=3 TYP=3
	245 SGMR	8 S	2118.0E	2119.0	2.0D	390.0			QL=4 ST=3 TYP=5
	100 HIRA	42 SER	2118.0	2120.8	12.0	3600.0			ML
	2800 PENT	4 S/F	2118.5	2119.8	4.7	17.2	4.0		
	2695 PALE	8 S	2119.0E	2119.0	1.0D	33.0			QL=4 ST=2 TYP=3
	4995 SGMR	8 S	2119.0E	2119.0	U	28.0			QL=4 ST=3 TYP=3
	2800 PENT	4 S/F	2123.9	2125.5	5.9	23.6	8.0		
	4995 PALE	8 S	2124.0E	2125.0	2.0D	51.0			QL=2 ST=2 TYP=3
	245 PALE	4 S/F	2124.0E	2126.0	4.0D	83.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	2124.0E	2125.0	2.0D	35.0			QL=4 ST=2 TYP=3
	8800 PALE	4 S/F	2124.0E	2125.0	3.0D	58.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	2124.0E	2125.0	2.0D	47.0			QL=4 ST=2 TYP=3
	4995 SGMR	8 S	2124.0E	2125.0	2.0D	64.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2124.0E	2126.0	2.0D	110.0			QL=4 ST=2 TYP=3
	9500 CUBA	1 S	2124.5	2125.0	3.4	32.0	16.0		
	410 PALE	8 S	2125.0E	2125.0	1.0D	130.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	2125.0E	2125.0	U	31.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	2125.0E	2125.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2695 SGMR	8 S	2125.0E	2125.0	U	30.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	2125.0E	2125.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2800 PENT	4 S/F	2148.3	2149.2	3.2	13.6	3.0		
	410 PALE	8 S	2211.0E	2212.0	1.0D	69.0			QL=4 ST=2 TYP=3
	200 HIRA	42 SER	2218.0	2240.7	30.0	200.0			WL
	245 PALE	8 S	2230.0E	2231.0	2.0D	200.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2231.0E	2231.0	1.0D	220.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2239.0E	2239.0	1.0D	56.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	2249.0E	2250.0	2.0D	110.0			QL=4 ST=2 TYP=3
	245 SGMR	4 S/F	2311.0E	2312.0	3.0D	54.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2328.0E	2329.0	1.0D	76.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	2352.0E	2357.0	5.0D	81.0			QL=4 ST=2 TYP=3
14	260 ONDR	43 NS	0700.0	1028.0		385.0			
	260 ONDR	43 NS	0700.0	0831.5	540.0	650.0			
	127 TORN	43 NS	0710.0		440.0		2.0		V=1
	235 CUBA	44 NS	1301.0E		539.0D		13.0		
	280 CUBA	44 NS	1301.0E		539.0D		19.0		
	245 LEAR	4 S/F	0050.0E	0055.0	8.0D	70.0			QL=4 ST=2 TYP=3
	245 PALE	4 S/F	0112.0E	0114.0	4.0D	170.0			QL=4 ST=2 TYP=3
	410 PALE	4 S/F	0112.0E	0114.0	4.0D	230.0			QL=4 ST=2 TYP=3
	410 LEAR	4 S/F	0113.0E	0114.0	3.0D	56.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	0113.0E	0114.0	3.0D	180.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	0213.0E	0216.0	4.0D	82.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0247.0E	0247.0	U	160.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0247.0E	0247.0	U	130.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0249.0E	0249.0	U	86.0			QL=4 ST=2 TYP=3
	9100 GORK	22 GRF	0251.0E	0254.0E	162.0D	7.0			
	9300 KISV	1 S	0528.8	0529.3	1.6	5.0			
	950 GORK	21 GRF	0605.0	0846.3	175.0	5.0			
	650 GORK	21 GRF	0605.0E	0844.4	175.0D	8.0			
	2950 GORK	2 S/F	0628.8	0630.9	4.2	4.0			
	245 LEAR	49 GB	0629.0E	0630.0	3.0D	800.0			QL=4 ST=2 TYP=6
	245 SVTO	49 GB	0629.0E	0630.0	3.0D	750.0			QL=4 ST=2 TYP=6
	100 GORK	4 S/F	0630.0	0630.9	2.0	900.0			
	410 LEAR	8 S	0711.0E	0711.0	1.0D	70.0			QL=4 ST=2 TYP=3
	33 UPIC	42 SER	0746.5	0832.5	55.5				
	9100 GORK	23 GRF	0812.0	1022.2	228.0D	19.0			

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

Outstanding Occurrences

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JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
14	15400	LEAR	8 S	0824.0E	0826.0	2.00	25.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0825.0E	0826.0	2.00	26.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0825.0E	0826.0	1.00	300.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0825.0E	0825.0	1.00	8.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0825.0E	0826.0	1.00	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0825.0E	0826.0	2.00	28.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0825.0E	0826.0	2.00	42.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0825.0E	0826.0	1.00	300.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0825.0E	0826.0	1.00	260.0			QL=4 ST=3 TYP=3
	950	GORK	2 S/F	0825.2	0826.3	3.5	13.0			
	650	GORK	2 S/F	0825.2	0826.4	3.5	6.0			
	2950	GORK	46 C	0825.4	0832.1		7.0			
	9100	GORK	4 S/F	0825.4	0826.2	2.2	28.0			
	2950	GORK	46 C	0825.4	0826.4	9.3	26.0			
	9300	KISV	4 S/F	0825.6	0826.2	1.9	31.0			
	1415	SVTO	8 S	0826.0E	0826.0	U	24.0			QL=4 ST=3 TYP=3
	2695	SVTO	8 S	0826.0E	0826.0	U	28.0			QL=2 ST=3 TYP=3
	4995	SVTO	8 S	0826.0E	0826.0	U	41.0			QL=4 ST=3 TYP=3
	8800	SVTO	8 S	0826.0E	0826.0	U	33.0			QL=4 ST=3 TYP=3
	536	ONDR	4 S/F	0829.0	0830.0	1.8	485.0			
	100	GORK	41 F	0830.0	0840.0		400.0			
	100	GORK	41 F	0830.0	0832.5	12.0	30600.0			
	245	LEAR	49 GB	0831.0E	0832.0	2.00	670.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0831.0E	0831.0	U	77.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0831.0E	0831.0	U	80.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0831.0E	0831.0	U	90.0			QL=4 ST=3 TYP=3
	245	SVTO	49 GB	0831.0E	0832.0	2.00	630.0			QL=4 ST=3 TYP=6
	610	SVTO	8 S	0831.0E	0831.0	1.00	91.0			QL=2 ST=3 TYP=3
	9100	GORK	2 S/F	0831.4	0832.5	1.6	7.0			
	9300	KISV	1 S	0831.4	0832.5	2.4	6.0			
	245	SVTO	4 S/F	0835.0E	0836.0	3.00	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0910.0E	0911.0	2.00	58.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0934.9	0935.7	4.1	4.0			
	536	ONDR	46 C	1015.0	1018.5	9.0	78.0			
	950	GORK	21 GRF	1016.1	1024.5	34.1	7.0			
	127	TORN	48 C	1016.3	1029.6	25.0	450.0	50.0		
	808	ONDR	2 S/F	1016.5	1021.0	10.0	367.0			
	33	UPIC	49 GB	1016.5	1019.2	23.5				
	245	SGMR	8 S	1017.0E	1018.0	2.00	160.0			QL=4 ST=2 TYP=3
	650	GORK	21 GRF	1017.3	1023.2	34.4	3.0			
	245	SVTO	49 GB	1018.0E	1030.0	16.00	680.0			QL=2 ST=3 TYP=7
	950	GORK	1 S	1018.0	1020.6	6.5	16.0			
	650	GORK	2 S/F	1018.0	1020.6	5.2	6.0			
	2695	SGMR	8 S	1020.0E	1020.0	U	28.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1022.0E	1030.0	12.00	680.0			QL=2 ST=2 TYP=7
	245	SGMR	4 S/F	1026.0E	1027.0	5.00	410.0			QL=4 ST=2 TYP=3
	2950	GORK	22 GRF	1029.3U	1030.6	45.70	9.0			
	950	GORK	1 S	1110.9	1111.2	0.7	2.0			
	650	GORK	1 S	1110.9	1111.3	0.7	5.0			
	33	UPIC	42 SER	1151.0		133.0				
	9300	KISV	46 C	1215.8	1219.0	32.8	159.0			
	9300	KISV	46 C	1215.8	1228.3		119.0			
	8800	SGMR	4 S/F	1217.0E	1218.0	4.00	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1218.0E	1219.0	3.00	94.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1218.0E	1219.0	2.00	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1218.0E	1218.0	2.00	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1218.0E	1218.0	2.00	76.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1218.0E	1219.0	3.00	94.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1218.0E	1228.0	14.00	100.0			QL=4 ST=2 TYP=5
	33	UPIC	32 ABS	1218.0	1225.0	28.0				
	808	ONDR	46 C	1218.0	1218.5	25.0	105.0			
	2695	SGMR	4 S/F	1224.0E	1228.0	9.00	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1224.0E	1228.0	696.00	96.0			QL=4 ST=1 TYP=3
	33	UPIC	8 S	1615.0	1615.2	0.4				
	9500	CUBA	1 S	1654.8	1655.2	6.2	25.0	12.0		
	2695	SVTO	8 S	1655.0E	1655.0	U	30.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	1655.0E	1655.0	U	29.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1745.8	1747.6	4.3	50.8	14.0		
	610	PALE	4 S/F	1746.0E	1747.0	8.00	260.0			QL=4 ST=3 TYP=3

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

Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
14	245	PALE	8 S	1746.0E	1748.0	2.0D	81.0			QL=4 ST=3 TYP=3
	4995	PALE	4 S/F	1746.0E	1747.0	8.0D	95.0			QL=4 ST=3 TYP=3
	410	PALE	8 S	1746.0E	1747.0	2.0D	380.0			QL=4 ST=3 TYP=3
	1415	PALE	4 S/F	1746.0E	1747.0	8.0D	44.0			QL=4 ST=3 TYP=3
	2695	PALE	4 S/F	1746.0E	1747.0	8.0D	74.0			QL=2 ST=3 TYP=3
	610	SGMR	8 S	1746.0E	1747.0	2.0D	300.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1746.0E	1747.0	2.0D	310.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1746.0E	1747.0	2.0D	330.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1746.5	1748.0	3.5	132.0	55.0		
	9500	CUBA	3 S	1746.8	1747.5	13.2	100.0	50.0		
	2695	PALE	8 S	1747.0E	1747.0	1.0D	74.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	1747.0E	1747.0	1.0D	26.0			QL=4 ST=3 TYP=3
	1415	PALE	8 S	1747.0E	1747.0	1.0D	36.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1747.0E	1748.0	1.0D	80.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1747.0E	1747.0	1.0D	99.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1747.0E	1747.0	1.0D	86.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1747.0E	1747.0	1.0D	41.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1747.0E	1747.0	U	33.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1747.0E	1747.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1747.0E	1747.0	1.0D	59.0			QL=2 ST=2 TYP=3
	9500	CUBA	29 PBI	1750.0		11.0	10.0	5.0		
	4995	PALE	20 GRF	1843.0E	1845.0	3.0D	14.0			QL=4 ST=2 TYP=2
	2695	PALE	20 GRF	1843.0E	1845.0	4.0D	16.0			QL=2 ST=2 TYP=2
	8800	PALE	20 GRF	1843.0E	1845.0	3.0D	9.0			QL=4 ST=2 TYP=2
	245	PALE	8 S	2048.0E	2048.0	1.0D	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2048.0E	2048.0	1.0D	55.0			QL=4 ST=2 TYP=3
	9500	CUBA	23 GRF	2213.0	2224.0	23.0	16.0	8.0		QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2221.0E	2222.0	4.0D	91.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2222.0E	2222.0	U	91.0			QL=4 ST=2 TYP=3
15	260	ONDR	43 NS	0700.0	1232.5	600.0D	322.0			
	127	TORN	43 NS	1035.0	1232.0	230.0	60.0	2.0		V=1
	245	SVTO	44 NS	1111.0E	1123.0	144.0D	100.0			QL=4 ST=2 TYP=1
	410	SVTO	44 NS	1143.0E	1146.0	50.0D	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		521.0D		19.0		
	280	CUBA	44 NS	1300.0E		540.0D		23.0		
	200	HIRA	44 NS	1950.0E	2200.0	380.0D	100.0	30.0		WL
	1415	LEAR	8 S	0159.0E	0200.0	1.0D	72.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0159.0E	0200.0	1.0D	69.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0159.0E	0159.0	1.0D	130.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0200.0E	0200.0	U	38.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0200.0E	0200.0	U	35.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0202.0	0204.0	5.0	131.2			
	2950	GORK	23 GRF	0339.0	0456.2	155.0D	7.0			
	2950	GORK	45 C	0347.1	0348.3	6.9	5.0			
	2950	GORK	45 C	0347.1	0350.4		5.0			
	2950	GORK	46 C	0426.5	0431.2	15.5	19.0			
	2950	GORK	46 C	0426.5	0437.3		14.0			
	9100	GORK	46 C	0427.0	0437.2		13.0			
	9100	GORK	46 C	0427.0	0431.5	18.0	22.0			
	100	GORK	4 S/F	0843.4	0844.7	2.8	450.0			
	33	UPIC	46 C	0844.0	0844.7	2.3				
	200	GORK	4 S/F	0849.3	0850.2	2.5	500.0			
	33	UPIC	45 C	0923.7	0924.2	0.8				
	536	ONDR	27 RF	1034.5	1045.4	119.0	106.0			
	33	UPIC	45 C	1035.7	1036.1	0.6				
	600	HUMN	2 S/F	1044.5	1048.5	5.5	18.0	5.0		
	410	SGMR	8 S	1046.0E	1048.0	2.0D	190.0			QL=4 ST=2 TYP=3
	9100	GORK	22 GRF	1047.6	1052.2	27.4	9.0			
	9300	KISV	20 GRF	1047.7	1052.3	16.3	9.0			
	245	SGMR	4 S/F	1115.0E	1123.0	8.0D	99.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1144.0E	1144.0	3.0D	340.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1218.0E	1219.0	3.0D	91.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1308.0	1308.4	1.3	140.0	70.0		
	33	UPIC	42 SER	1308.5	1355.6	71.0				
	127	TORN	7 C	1312.4	1313.0	1.0	40.0	20.0		
	245	SGMR	4 S/F	1428.0E	1437.0	10.0D	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1528.0E	1528.0	1.0D	55.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1528.0E	1529.0	1.0D	56.0			QL=2 ST=2 TYP=3

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Outstanding Occurrences

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Jul 92

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
15	245	SGMR	8 S	1619.0E	1620.0	2.0D	61.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2006.0E	2007.0	8.0D	32.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2006.0E	2009.0	8.0D	29.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2006.0E	2007.0	2.0D	78.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2007.0E	2007.0	U	9.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2007.0E	2007.0	1.0D	4.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2007.0E	2007.0	3.0D	18.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2007.0E	2007.0	U	9.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	2007.0E	2007.0	U	91.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2135.0E	2136.0	2.0D	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2135.0E	2136.0	2.0D	80.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2146.0E	2146.0	2.0D	96.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2211.0E	2214.0	8.0D	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2213.0E	2214.0	2.0D	68.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	2250.0E	2250.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	2351.0	2353.1	5.0	13.9			
16	245	PALE	44 NS	0154.0E	0155.0	50.0D	120.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0700.0E	0927.0		650.0			
	260	ONDR	44 NS	0700.0E	1023.0					
	260	ONDR	44 NS	0700.0E	1049.0					
	260	ONDR	44 NS	0700.0E	0905.0	600.0D	650.0			
	260	ONDR	44 NS	0700.0E	0922.1		650.0			
	260	ONDR	44 NS	0700.0E	1602.5		650.0			
	260	ONDR	44 NS	0700.0E	1603.5		650.0			
	245	SGMR	44 NS	1247.0E	1311.0	629.0D	110.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	1303.0E	1311.0	94.0D	120.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1314.0E		526.0D		29.0		
	235	CUBA	44 NS	1314.0E		526.0D		20.0		
	200	HIRA	44 NS	1950.0E	0700.0	835.0D	200.0	20.0		WL
	245	LEAR	8 S	0015.0E	0015.0	2.0D	340.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0015.0E	0015.0	2.0D	280.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0026.0E	0926.0	541.0D	87.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0141.0E	0142.0	2.0D	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0142.0E	0142.0	1.0D	290.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0149.0E	0149.0	U	170.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0158.0	0159.4	4.0	33.5			
	2840	PEKG	5 S	0300.0	0302.2	26.0	18.5			
	610	LEAR	8 S	0424.0E	0424.0	1.0D	140.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0434.0	0435.7	4.0	6.4			
	2950	GORK	2 S/F	0436.2	0436.7	1.5	6.0			
	245	LEAR	8 S	0608.0E	0608.0	U	94.0			QL=4 ST=2 TYP=3
	200	GORK	8 S	0608.0	0608.1	0.5	330.0			
	100	GORK	8 S	0608.1	0608.2	0.6	2600.0			
	245	SVTO	4 S/F	0724.0E	0727.0	8.0D	52.0			QL=4 ST=3 TYP=3
	410	SVTO	4 S/F	0725.0E	0727.0	7.0D	250.0			QL=4 ST=3 TYP=3
	2695	LEAR	8 S	0727.0E	0727.0	1.0D	40.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0727.0E	0727.0	U	170.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0727.0E	0728.0	1.0D	46.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0727.0E	0727.0	1.0D	250.0			QL=2 ST=2 TYP=3
	2950	GORK	4 S/F	0727.0	0727.8	2.7	24.0			
	1415	SVTO	8 S	0730.0E	0732.0	2.0D	25.0			QL=4 ST=3 TYP=3
	2950	GORK	20 GRF	0839.0	0844.0	13.5	5.0			
	100	GORK	8 S	0841.1	0841.4	0.7	350.0			
	245	LEAR	8 S	0851.0E	0851.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0904.0E	0904.0	1.0D	1800.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0904.0E	0904.0	1.0D	68.0			QL=4 ST=3 TYP=3
	245	SVTO	49 GB	0904.0E	0904.0	1.0D	1300.0			QL=4 ST=3 TYP=6
	410	SVTO	8 S	0922.0E	0922.0	U	180.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0922.0E	0922.0	U	1000.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0926.0E	0926.0	1.0D	87.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0926.0E	0927.0	1.0D	410.0			QL=4 ST=2 TYP=3
	536	ONDR	41 F	1016.0	1657.0	404.0	364.0			
	245	SGMR	49 GB	1023.0E	1023.0	1.0D	560.0			QL=4 ST=3 TYP=6
	410	SGMR	8 S	1023.0E	1023.0	2.0D	230.0			QL=4 ST=3 TYP=3
	245	SVTO	49 GB	1023.0E	1023.0	2.0D	520.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1023.0E	1023.0	2.0D	230.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1048.0E	1048.0	1.0D	7400.0			QL=4 ST=3 TYP=6
	410	SGMR	8 S	1048.0E	1048.0	1.0D	140.0			QL=4 ST=3 TYP=3

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SOLAR RADIO EMISSION

Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
16	410	SVTO	8 S	1048.0E	1048.0	1.0D	280.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1048.0E	1048.0	1.0D	7200.0			QL=4 ST=2 TYP=6
	33	UPIC	8 S	1050.0	1050.1	0.5				
	245	SGMR	8 S	1108.0E	1109.0	1.0D	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1108.0E	1109.0	1.0D	85.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1142.1	1142.4	1.3	60.0	15.0		
	245	SGMR	8 S	1238.0E	1238.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1242.0E	1242.0	1.0D	120.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1242.0E	1242.0	1.0D	130.0			QL=4 ST=2 TYP=3
	808	ONDR	8 S	1405.6	1405.6	0.7	110.0			
	410	SGMR	8 S	1455.0E	1455.0	U	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1524.0E	1524.0	1.0D	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1524.0E	1525.0	1.0D	140.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1601.0E	1603.0	2.0D	3300.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1601.0E	1603.0	2.0D	3000.0			QL=2 ST=2 TYP=6
	4995	PALE	4 S/F	1654.0E	1655.0	4.0D	400.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1654.0E	1655.0	4.0D	380.0			QL=4 ST=2 TYP=3
	15400	PALE	49 GB	1654.0E	1656.0	4.0D	830.0			QL=4 ST=2 TYP=6
	9500	CUBA	4 S/F	1654.5	1655.8	4.0	422.0D			
	600	HUMN	4 S/F	1654.8	1655.7	13.9	249.0	26.0		
	245	PALE	4 S/F	1655.0E	1656.0	3.0D	140.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	1655.0E	1655.0	5.0D	350.0			QL=4 ST=2 TYP=3
	2695	PALE	49 GB	1655.0E	1656.0	3.0D	720.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	1655.0E	1656.0	3.0D	620.0			QL=4 ST=2 TYP=6
	410	PALE	4 S/F	1655.0E	1656.0	3.0D	250.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1655.0E	1655.0	3.0D	240.0			QL=4 ST=2 TYP=3
	2695	SGMR	49 GB	1655.0E	1655.0	6.0D	570.0			QL=4 ST=2 TYP=6
	4995	SVTO	4 S/F	1655.0E	1655.0	5.0D	440.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1655.0E	1656.0	2.0D	490.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1655.0E	1656.0	1.0D	170.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1655.0E	1656.0	2.0D	270.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1655.0E	1656.0	4.0D	340.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1655.0E	1656.0	425.0D	810.0			QL=4 ST=1 TYP=6
	1415	SGMR	4 S/F	1655.0E	1656.0	425.0D	320.0			QL=4 ST=1 TYP=3
	15400	SVTO	49 GB	1655.0E	1655.0	425.0D	690.0			QL=4 ST=1 TYP=6
	8800	SVTO	4 S/F	1655.0E	1655.0	425.0D	420.0			QL=4 ST=1 TYP=3
	808	ONDR	2 S/F	1655.2	1656.5	7.0	760.0			
	2800	PENT	47 GB	1655.4	1656.0	4.1	518.0	141.0		
	280	CUBA	7 C	1655.6	1657.7	4.4	55.0D			
	235	CUBA	7 C	1655.6	1657.7	4.4	62.0D			
	245	SGMR	8 S	1656.0E	1656.0	U	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	29 PBI	1658.5		22.5	24.0	12.0		
	245	PALE	8 S	1731.0E	1731.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1731.0E	1731.0	U	120.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1816.0E	1816.0	U	61.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1827.0E	1827.0	1.0D	98.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1921.0E	1921.0	1.0D	59.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2147.0E	2148.0	1.0D	61.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2243.0E	2244.0	1.0D	51.0			QL=4 ST=2 TYP=3
17	245	LEAR	44 NS	0400.0E	0653.0	285.0D	160.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	0457.0E	0458.0	28.0D	72.0			QL=4 ST=2 TYP=1
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	127	TORN	44 NS	0620.0E		520.0D		1.0		V=1
	245	SVTO	44 NS	0647.0E	0654.0	46.0D	100.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0700.0E	0839.0	600.0D	162.0			
	260	ONDR	44 NS	0700.0E	1308.5		160.0			
	260	ONDR	44 NS	0700.0E	1626.7		183.0			
	235	CUBA	44 NS	1300.0E		486.0D		13.0		
	280	CUBA	44 NS	1300.0E		486.0D		17.0		
	200	HIRA	44 NS	1950.0E	2207.0	835.0D	200.0	50.0		WL
	610	PALE	44 NS	2118.0E	2125.0	461.0D	210.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	2122.0E	2235.0	131.0D	700.0			QL=4 ST=3 TYP=1
	410	PALE	44 NS	2127.0E	2127.0	202.0D	53.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	2328.0E	0341.0	297.0D	240.0			QL=4 ST=3 TYP=1
	245	PALE	8 S	0026.0E	0027.0	1.0D	50.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0027.0E	0027.0	U	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0316.0E	0316.0	U	77.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0326.0E	0326.0	1.0D	85.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

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Jul 92

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean W/m ² Hz	Int	Remarks
17	245	PALE	8 S	0326.0E	0326.0	1.0D	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0355.0E	0355.0	U	80.0			QL=4 ST=2 TYP=3
	200	GORK	40 F	0648.0	0700.0	60.0	300.0			
	33	UPIC	42 SER	0651.3		142.7				
	100	GORK	40 F	0705.5	0733.1	41.3	120.0			
	127	TORN	4 S/F	0906.3	0907.5	1.8	110.0	30.0		
	33	UPIC	42 SER	1109.0	1522.1	260.3				
	245	SGMR	8 S	1110.0E	1111.0	2.0D	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1307.0E	1307.0	1.0D	300.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1307.0E	1307.0	1.0D	350.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1312.0E	1312.0	U	78.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1440.0E	1440.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1626.0E	1626.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1643.0E	1646.0	4.0D	160.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1644.0E	1646.0	3.0D	170.0			QL=4 ST=2 TYP=5
	245	SGMR	8 S	1645.0E	1646.0	2.0D	190.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1725.0E	1727.0	3.0D	97.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1727.0E	1727.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1727.0E	1727.0	1.0D	60.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1835.0E	1836.0	1.0D	48.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1835.0E	1836.0	1.0D	40.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1835.0E	1836.0	1.0D	36.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1835.0E	1836.0	1.0D	33.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1835.5	1836.1	3.4	43.0	21.0		
	245	PALE	8 S	1858.0E	1858.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1858.0E	1858.0	U	120.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	1927.0E	1927.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1927.0E	1930.0	3.0D	79.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1929.0E	1930.0	1.0D	62.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	2051.0	2115.0	97.0D	13.0			
	2800	PENT	3 S	2107.8	2109.9	14.8	25.3	3.0		
	9500	CUBA	1 S	2108.6	2109.5	3.4	38.0	19.0		
	100	HIRA	46 C	2108.8	2110.0	3.5	1000.0	350.0		WL
	410	PALE	8 S	2109.0E	2109.0	1.0D	83.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2109.0E	2109.0	1.0D	46.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2109.0E	2109.0	1.0D	39.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2109.0E	2109.0	1.0D	39.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2109.0E	2110.0	1.0D	160.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2109.0E	2109.0	1.0D	38.0			QL=2 ST=3 TYP=3
	8800	PALE	8 S	2109.0E	2109.0	1.0D	52.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2109.0E	2109.0	1.0D	48.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2109.0E	2109.0	1.0D	41.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2109.0E	2110.0	1.0D	180.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2117.0E	2124.0	163.0D	43.0			QL=4 ST=3 TYP=3
	245	SGMR	4 S/F	2122.0E	2125.0	158.0D	250.0			QL=4 ST=3 TYP=3
	100	HIRA	46 C	2317.3		2.0	1000.0D			
18	245	SVTO	44 NS	0356.0E	0359.0	15.0D	87.0			QL=4 ST=2 TYP=1
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	127	TORN	44 NS	0620.0E		520.0D		3.0		V=2, ATMOSPHERIC
	260	ONDR	44 NS	0700.0E	1340.0		650.0			
	260	ONDR	44 NS	0700.0E	0821.0	600.0D	445.0			
	245	SGMR	44 NS	0945.0E	0951.0	70.0D	68.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1400.0E		140.0D		20.0		
	280	CUBA	44 NS	1400.0E		390.0D		21.0		
	245	SVTO	44 NS	1541.0E	1542.0	52.0D	61.0			QL=4 ST=3 TYP=1
	245	SGMR	44 NS	1542.0E	1545.0	51.0D	65.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	1950.0E	2211.0	190.0D	60.0	12.0		ML
	410	LEAR	8 S	0245.0E	0245.0	1.0D	490.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0245.0E	0245.0	1.0D	550.0			QL=4 ST=2 TYP=6
	33	UPIC	42 SER	0507.0		744.0				
	245	SVTO	8 S	0745.0E	0746.0	1.0D	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0746.0E	0746.0	U	93.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0746.5	0747.4	1.9	5.0			
	245	LEAR	4 S/F	0847.0E	0853.0	6.0D	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0852.0E	0853.0	1.0D	54.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0852.0E	0853.0	1.0D	64.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1332.0E	1333.0	1.0D	97.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1333.0E	1339.0	7.0D	740.0			QL=4 ST=2 TYP=6

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SOLAR RADIO EMISSION

Outstanding Occurrences

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (2 Hz)		
18	127	TORN	46 C	1336.0	1336.6	5.0	200.0	40.0		
	245	SGMR	49 GB	1339.0E	1339.0	1.0D	740.0			QL=4 ST=2 TYP=6
	8800	SGMR	8 S	1339.0E	1339.0	1.0D	47.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1339.0E	1339.0	1.0D	81.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1339.0E	1339.0	1.0D	750.0			QL=2 ST=2 TYP=6
	15400	SVTO	8 S	1339.0E	1339.0	1.0D	87.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1339.0E	1339.0	3.0D	47.0			QL=4 ST=2 TYP=3
	33	UPIC	31 ABS	1339.0	1343.0	26.0				
	9300	KISV	4 S/F	1339.6	1339.8	8.6	50.0			
	9500	CUBA	1 S	1340.5	1340.7	5.5	49.0	24.0		
	245	SGMR	8 S	1445.0E	1446.0	1.0D	180.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1445.0E	1446.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1523.0E	1524.0	1.0D	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1523.0E	1524.0	1.0D	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1533.0E	1533.0	2.0D	69.0			QL=4 ST=2 TYP=3
	2800	PENT	22 GRF	2031.5	2034.2	22.4	15.6	4.0		
	610	PALE	4 S/F	2032.0E	2032.0	7.0D	83.0			QL=4 ST=3 TYP=3
	610	SGMR	8 S	2032.0E	2032.0	2.0D	88.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2033.0E	2034.0	6.0D	28.0			QL=2 ST=3 TYP=3
	245	PALE	8 S	2035.0E	2036.0	1.0D	110.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	2035.0E	2036.0	1.0D	120.0			QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	2038.0E	2040.0	6.0D	120.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2039.0E	2040.0	5.0D	110.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2040.0E	2041.0	4.0D	89.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2040.0E	2041.0	4.0D	84.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2042.0E	2043.0	1.0D	22.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2050.0E	2050.0	1.0D	41.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2050.0E	2051.0	1.0D	26.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2050.0E	2050.0	1.0D	37.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2050.0E	2051.0	1.0D	24.0			QL=4 ST=2 TYP=3
19	260	ONDR	43 NS	0750.0	0815.0	520.0	160.0			
	280	CUBA	44 NS	1300.0E		540.0D		17.0		
	235	CUBA	44 NS	1300.0E		540.0D		12.0		
	245	LEAR	8 S	0255.0E	0257.0	2.0D	79.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0255.0E	0257.0	2.0D	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0306.0E	0306.0	U	77.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0306.1	0306.3	3.7	100.0	50.0		WL
	200	HIRA	46 C	0306.3	0309.2	3.0	210.0	50.0		O
	245	LEAR	8 S	0308.0E	0308.0	1.0D	62.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	0407.4	0408.3	2.5	7.0			
	2950	GORK	21 GRF	0422.4	0430.0	34.6	7.0			
	2950	GORK	2 S/F	0425.9	0427.4	4.1	7.0			
	2840	PEKG	1 S	0426.5	0427.4	2.0	6.9			
	245	LEAR	8 S	0457.0E	0457.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0457.0E	0457.0	1.0D	75.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0519.0	0614.0	100.0				
	9100	GORK	22 GRF	0636.0	0640.1	13.0	9.0			
	9300	KISV	2 S/F	0636.8	0639.3	6.1	10.0			
	245	LEAR	8 S	0708.0E	0708.0	U	64.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0806.5		295.3				
	245	LEAR	8 S	0921.0E	0923.0	2.0D	92.0			QL=4 ST=2 TYP=3
	950	GORK	20 GRF	0921.8	0925.0	8.2	8.0			
	127	TORN	4 S/F	0922.7	0923.8	3.0	350.0	80.0		
	2950	GORK	1 S	0923.1	0924.2	4.9	6.0			
	536	ONDR	41 F	1005.0	1359.1	385.0	182.0			
	410	SGMR	8 S	1008.0E	1009.0	1.0D	94.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1009.0E	1010.0	1.0D	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1010.0E	1010.0	U	65.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1010.0E	1010.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1119.0E	1119.0	U	50.0			QL=4 ST=2 TYP=3
	127	TORN	42 SER	1236.5	1238.3	11.0	180.0			
	610	SGMR	49 GB	1356.0E	1356.0	U	1000.0			QL=4 ST=2 TYP=6
	808	ONDR	5 S	1356.5	1356.7	1.0	64.0			
	8800	SGMR	8 S	1510.0E	1510.0	1.0D	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1531.0E	1532.0	1.0D	79.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1532.0E	1532.0	U	230.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1532.0E	1532.0	U	290.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1536.0E	1536.0	2.0D	140.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)	Int	Remarks
19	610	SGMR	8 S	1541.0E	1541.0	1.0D	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1625.0E	1625.0	U	61.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1714.5	1714.9	1.3				
	245	SGMR	8 S	1740.0E	1741.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1741.0E	1741.0	U	72.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2058.0E	2058.0	1.0D	42.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2058.0E	2058.0	1.0D	67.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2131.0E	2132.0	7.0D	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2131.0E	2133.0	2.0D	86.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2223.0E	2223.0	U	61.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2223.0E	2223.0	U	70.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2229.0E	2230.0	1.0D	50.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2229.0E	2230.0	1.0D	59.0			QL=4 ST=2 TYP=3
20	127	TORN	44 NS	0800.0E		405.0D		1.0		V=0
	235	CUBA	44 NS	1307.0E		523.0D		12.0		
	280	CUBA	44 NS	1307.0E		523.0D		14.0		
	2840	PEKG	1 S	0154.0	0155.4	2.0	11.4			
	245	LEAR	8 S	0159.0E	0159.0	1.0D	260.0			QL=4 ST=3 TYP=3
	410	LEAR	8 S	0159.0E	0159.0	1.0D	430.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	0159.0E	0159.0	1.0D	200.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0159.0E	0159.0	1.0D	610.0			QL=4 ST=2 TYP=6
	2840	PEKG	5 S	0159.0	0200.1	11.0	11.4			
	610	LEAR	8 S	0508.0E	0508.0	1.0D	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0544.0E	0545.0	2.0D	85.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0545.0E	0545.0	U	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	21 GRF	0613.0		112.0	18.2			
	100	GORK	4 S/F	0653.4	0656.0U	6.1	65.0			
	33	UPIC	48 C	0654.5	0657.0	5.5				
	410	LEAR	4 S/F	0655.0E	0657.0	3.0D	420.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0655.0	0657.4	5.0	11.4			
	650	GORK	4 S/F	0655.8	0657.8	7.6	17.0			
	2950	GORK	2 S/F	0656.5	0658.4	4.7	7.0			
	950	GORK	1 S	0656.5	0657.8	6.8	6.0			
	410	SVTO	49 GB	0657.0E	0658.0	1.0D	690.0			QL=4 ST=2 TYP=6
	200	GORK	4 S/F	0657.8	0658.0	0.6	50.0			
	260	ONDR	41 F	0700.0	1107.0	540.0	127.0			
	200	GORK	4 S/F	0730.4	0730.6	1.4	150.0			
	33	UPIC	45 C	1025.9	1026.0	1.0				
	245	SGMR	4 S/F	1046.0E	1050.0	4.0D	45.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1103.0E	1103.0	U	60.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1321.4	1321.7	3.9				
	245	SVTO	4 S/F	1325.0E	1327.0	3.0D	94.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1327.0E	1327.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1342.0E	1343.0	1.0D	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1354.0E	1354.0	U	64.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1538.0E	1538.0	4.0D	55.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1626.9	1628.5	4.3	22.2	6.0		
	1415	SGMR	8 S	1627.0E	1628.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1628.0E	1628.0	U	22.0			QL=4 ST=2 TYP=3
21	280	CUBA	44 NS	1300.0E		540.0D		15.0		
	235	CUBA	44 NS	1300.0E		540.0D		11.0		
	33	UPIC	4 S/F	0545.6	0545.7	1.6				
	33	UPIC	45 C	0917.4	0917.6	1.0				
	2840	PEKG	45 C	2342.0	2343.0	3.0	22.6			
	2800	PENT	3 S	2342.0	2343.5	5.6	17.2	4.0		
22	280	CUBA	44 NS	1300.0E		539.0D		15.0		
	235	CUBA	44 NS	1301.0E		539.0D		10.0		
	2950	GORK	20 GRF	0622.4	0623.5	8.9	5.0			
	245	SVTO	8 S	0801.0E	0801.0	1.0D	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0801.0E	0801.0	1.0D	45.0			QL=4 ST=2 TYP=3
23	127	TORN	43 NS	0948.0		310.0				V=0DISTURBED
	235	CUBA	44 NS	1300.0E		540.0D		10.0		
	280	CUBA	44 NS	1300.0E		540.0D		14.0		
	127	TORN	4 S/F	0628.0	0632.0	4.3	500.0	230.0		
	127	TORN	4 S/F	0642.0	0642.4	3.0	1100.0	290.0		

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SOLAR RADIO EMISSION Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
23	127	TORN	46 C	0712.3	0716.0	34.0	490.0	15.0		
	2850	CRIM	1 S	0729.0	0729.5	1.0	5.0	2.0		
	536	ONDR	7 C	0826.5	0827.4	2.0	54.0			
	536	ONDR	2 S/F	1002.5	1003.0	2.5	70.0			
	260	ONDR	41 F	1039.0	1121.8	80.0	40.0			
24	280	CUBA	44 NS	1300.0E		472.0D		14.0		
	33	UPIC	46 C	0944.2	0945.1	2.0				
	260	ONDR	40 F	1130.0	1252.8	120.0	37.0			
	9500	CUBA	1 S	1322.5	1323.4	3.5	10.0	5.0		
	9500	CUBA	20 GRF	1344.0	1350.0	11.0	10.0	5.0		
25	280	CUBA	44 NS	1300.0E		540.0D		13.0		
	235	CUBA	44 NS	1300.0E		540.0D		10.0		
	2850	CRIM	1 S	0519.0	0520.1	3.0	11.0	4.0		
	2850	CRIM	21 GRF	0618.0	0645.4	140.0	80.0	27.0		
	127	TORN	46 C	0706.8	0707.9	7.0	400.0	100.0		
	260	ONDR	40 F	0815.0	0946.0	120.0	28.0			
	33	UPIC	48 C	1156.0	1157.0	4.5				
26	127	TORN	44 NS	1126.0E		140.0D		1.0		V=1DISTURBED
	610	LEAR	8 S	0145.0E	0145.0	1.0D	59.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0145.0E	0145.0	1.0D	55.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0523.6	0529.0	7.8	3.0			
	536	ONDR	42 SER	0810.0	0851.8	55.0	54.0			
	100	GORK	4 S/F	0814.6	0815.6	3.3	130.0			
	260	ONDR	48 C	0815.0	0818.5	4.5	157.0			
	950	GORK	2 S/F	0815.6	0817.1	6.0	7.6			
	650	GORK	46 C	0815.7	0817.1		3.3			
	650	GORK	46 C	0815.7	0816.5	3.1	4.4			
	2950	GORK	2 S/F	0816.5	0818.0	2.7	9.0			
	9300	KISV	4 S/F	0816.9	0818.0	2.6	36.0			
	200	GORK	4 S/F	0816.9	0817.1	2.3	10.0			
	245	LEAR	8 S	0817.0E	0817.0	1.0D	310.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0817.0E	0817.0	1.0D	34.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0817.0E	0817.0	1.0D	200.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	0817.0	0817.8	2.8	23.0			
	9300	KISV	45 C	0817.1	0818.0		24.0			
	9300	KISV	45 C	0817.1	0817.8	3.5	25.0			
	410	SGMR	8 S	1206.0E	1207.0	2.0D	25.0			QL=4 ST=2 TYP=3
	260	ONDR	48 C	1206.0	1207.5	3.8	325.0			
	245	SGMR	8 S	1207.0E	1207.0	U	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1207.0E	1207.0	U	420.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1208.1	1208.3	1.2				
27	2840	PEKG	1 S	0605.0	0605.8	1.0	6.0			
	2950	GORK	1 S	0605.1	0605.4	0.9	2.0			
	9100	GORK	20 GRF	0609.0	0621.0	42.0	5.0			
	950	GORK	1 S	0755.9	0756.3	1.2	2.3			
	650	GORK	1 S	0756.0	0756.3	1.0	2.5			
	260	ONDR	45 C	0818.0	0819.6	2.0	52.0			
	245	PALE	8 S	1711.0E	1711.0	2.0D	68.0			QL=4 ST=2 TYP=3
28	280	CUBA	44 NS	1340.0E		395.0D		17.0		
	235	CUBA	44 NS	1340.0E		395.0D		11.0		
	2850	CRIM	29 PBI	0437.0	0450.0	180.0	18.0			
	2850	CRIM	47 GB	0437.0	0455.1		2688.0			
	2850	CRIM	47 GB	0437.0	0448.9	63.0	390.0			
	9300	KISV	1 S	0823.8	0824.6	12.0	11.0			
29	200	HIRA	43 NS	0508.0	0730.0	280.0D	70.0	30.0		ML
	200	GORK	44 NS	0600.0E		180.0D		10.0		
	127	TORN	44 NS	0620.0E		520.0D		1.0		V=0
	260	ONDR	44 NS	0700.0E	0753.1	260.0D	100.0			
	260	ONDR	44 NS	0700.0E	0852.5		116.0			
	260	ONDR	44 NS	0700.0E	1050.7		85.0			
	235	CUBA	44 NS	1300.0E		540.0D		14.0		
	280	CUBA	44 NS	1300.0E		540.0D		18.0		
	200	HIRA	44 NS	1950.0E	0252.0	730.0D	60.0	15.0		ML

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
29	33	UPIC	3 S	0511.8	0512.0	0.4				
	245	LEAR	8 S	0528.0E	0529.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0528.0E	0529.0	1.0D	120.0			QL=4 ST=3 TYP=3
	33	UPIC	45 C	0546.5	0546.6	0.6				
	245	LEAR	8 S	0618.0E	0619.0	2.0D	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0618.0E	0619.0	2.0D	52.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0620.0	0621.5	2.0				
	33	UPIC	2 S/F	0728.2	0728.3	0.6				
	2850	CRIM	41 F	0831.5	0834.0	4.1	7.0	2.0		
	33	UPIC	4 S/F	1203.3	1204.2	1.2				
	9500	CUBA	20 GRF	1935.0	2016.0	168.0D	13.0			
	245	SGMR	8 S	2306.0E	2307.0	2.0D	250.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2306.7	2307.2	0.8	400.0			WR
	100	HIRA	8 S	2306.8	2307.0	0.9	380.0			WR
30	245	LEAR	44 NS	0253.0E	0327.0	45.0D	71.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0620.0E	1015.9	510.0D	30.0	1.0		V=1
	260	ONDR	43 NS	0700.0	1451.5	600.0D	125.0			
	245	SVTO	44 NS	1250.0E	1412.0	205.0D	140.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1252.0E	1257.0	668.0D	85.0			QL=4 ST=3 TYP=1
	235	CUBA	44 NS	1305.0E		542.0D		17.0		
	280	CUBA	44 NS	1305.0E		542.0D		23.0		
	245	PALE	44 NS	1911.0E	1911.0	59.0D	70.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1916.0E	1945.0	117.0D	72.0			QL=4 ST=2 TYP=1
	200	HIRA	46 C	0446.0	0447.8	2.0	700.0	200.0		WL
	100	HIRA	46 C	0446.7	0446.8U	2.1	1000.0D			ML
	245	LEAR	8 S	0447.0E	0448.0	1.0D	110.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0509.0		310.0				
	245	SVTO	8 S	0645.0E	0645.0	U	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0645.0E	0645.0	U	170.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0729.0E	0730.0	1.0D	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0730.0E	0730.0	U	74.0			QL=4 ST=2 TYP=3
	127	TORN	7 C	0742.5	0742.9	1.4	180.0	40.0		
	245	SVTO	8 S	0935.0E	0935.0	U	96.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1357.0	1357.1	2.0				
	33	UPIC	45 C	1407.6	1407.9	1.2				
	245	SGMR	8 S	1911.0E	1911.0	U	84.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2219.0E	2220.0	1.0D	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2219.0E	2220.0	1.0D	73.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2232.0E	2234.0	4.0D	22.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2232.0E	2234.0	4.0D	44.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	2232.9	2234.8	5.3	340.0	200.0		WL
	1415	PALE	8 S	2233.0E	2234.0	2.0D	9.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2233.0E	2234.0	2.0D	470.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2233.0E	2235.0	2.0D	12.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2233.0E	2234.0	3.0D	13.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2233.0E	2234.0	2.0D	480.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	2233.6	2234.8	2.5	470.0	150.0		O
	610	PALE	8 S	2234.0E	2234.0	1.0D	66.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2234.0E	2234.0	6.0D	78.0			QL=4 ST=2 TYP=3
31	127	TORN	44 NS	0620.0E		520.0D		1.0		V=1
	260	ONDR	44 NS	0700.0E	1500.0		170.0			
	260	ONDR	44 NS	0700.0E	1350.0	480.0D	185.0			
	245	LEAR	44 NS	0737.0E	0742.0	128.0D	130.0			QL=2 ST=2 TYP=1
	235	CUBA	44 NS	1720.0E		480.0D		12.0		
	280	CUBA	44 NS	1720.0E		480.0D		18.0		
	245	LEAR	8 S	0129.0E	0129.0	U	130.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0246.7	0246.8	3.0	340.0	100.0		WL
	245	LEAR	8 S	0308.0E	0308.0	1.0D	75.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0308.0E	0308.0	1.0D	73.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0507.7	0509.0	1.3	170.0	70.0		ML
	100	HIRA	46 C	0508.0	0508.6	1.5	500.0	200.0		WL
	245	LEAR	8 S	0620.0E	0620.0	1.0D	95.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0620.0E	0620.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0738.0E	0738.0	U	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0742.0E	0742.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0838.0E	0838.0	U	110.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	1325.6	1332.0U	12.2				

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

JULY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m	Mean 2 Hz)		
31	127	TORN	4 S/F	1329.3	1331.3	5.0	450.0	110.0		
	245	SGMR	8 S	1330.0E	1330.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1330.0E	1331.0	1.0D	140.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1335.2	1338.0	4.2	300.0	50.0		
	33	UPIC	46 C	1457.2	1458.8	4.6				
	245	PALE	8 S	1705.0E	1705.0	U	59.0			QL=4 ST=2 TYP=3

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 = Hiraio	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN = Huancayo	NOBE = Nobeyama	SGMR = Sagamore Hill	

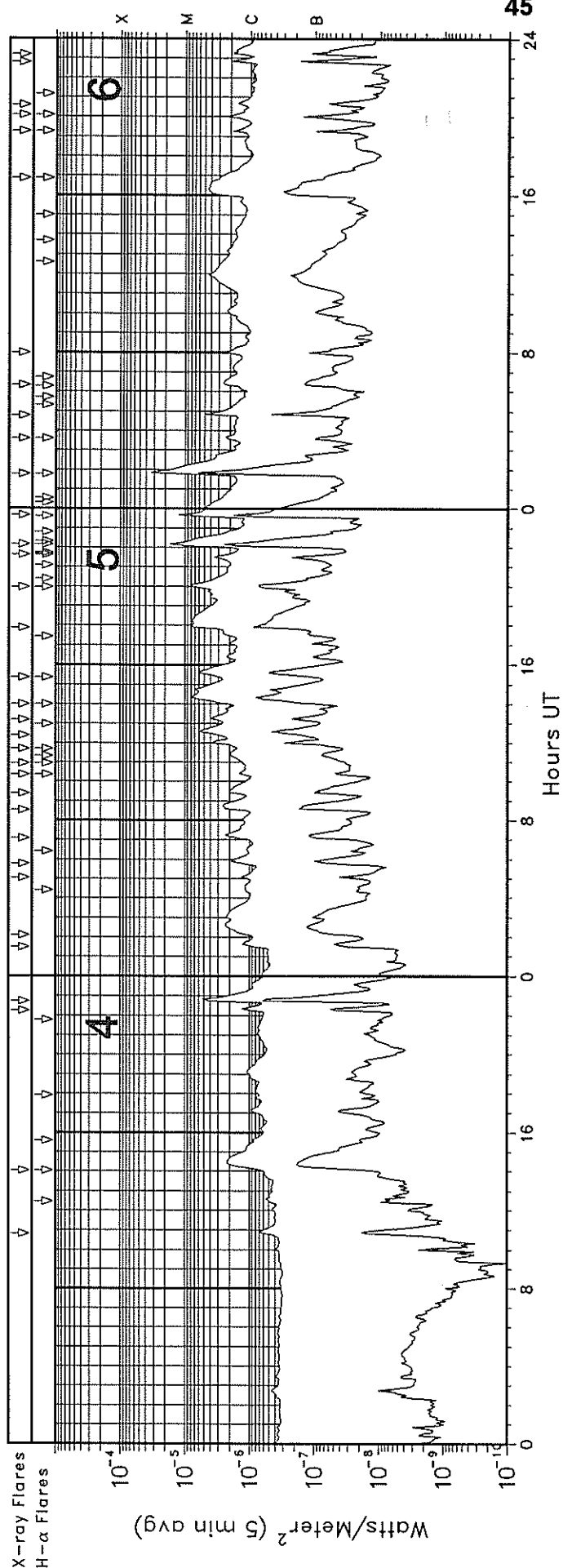
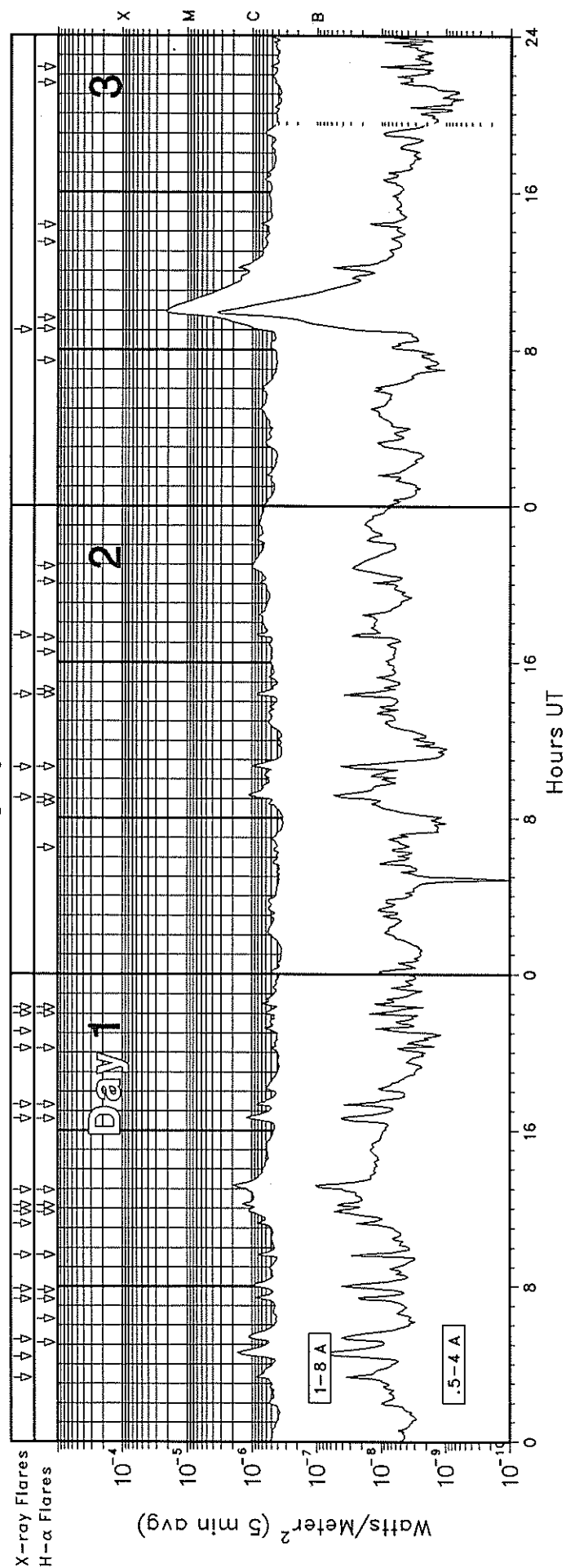
Explanation of Type Code:

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 Precursor	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	

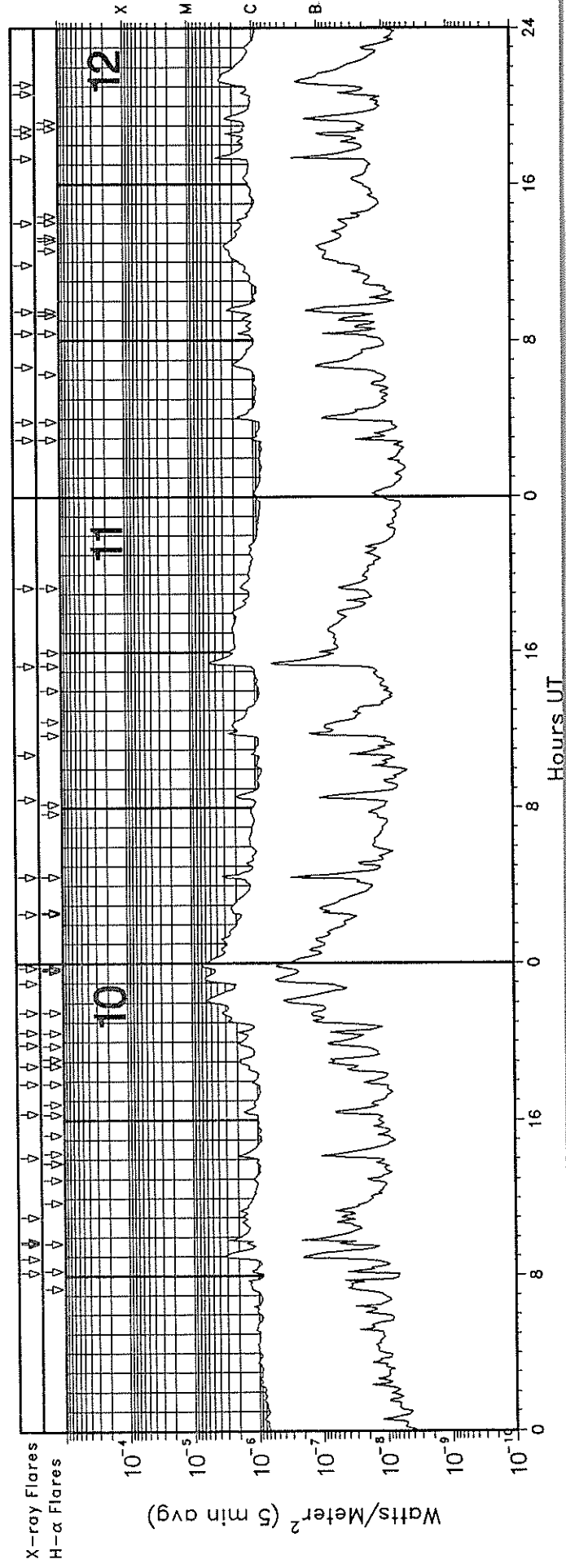
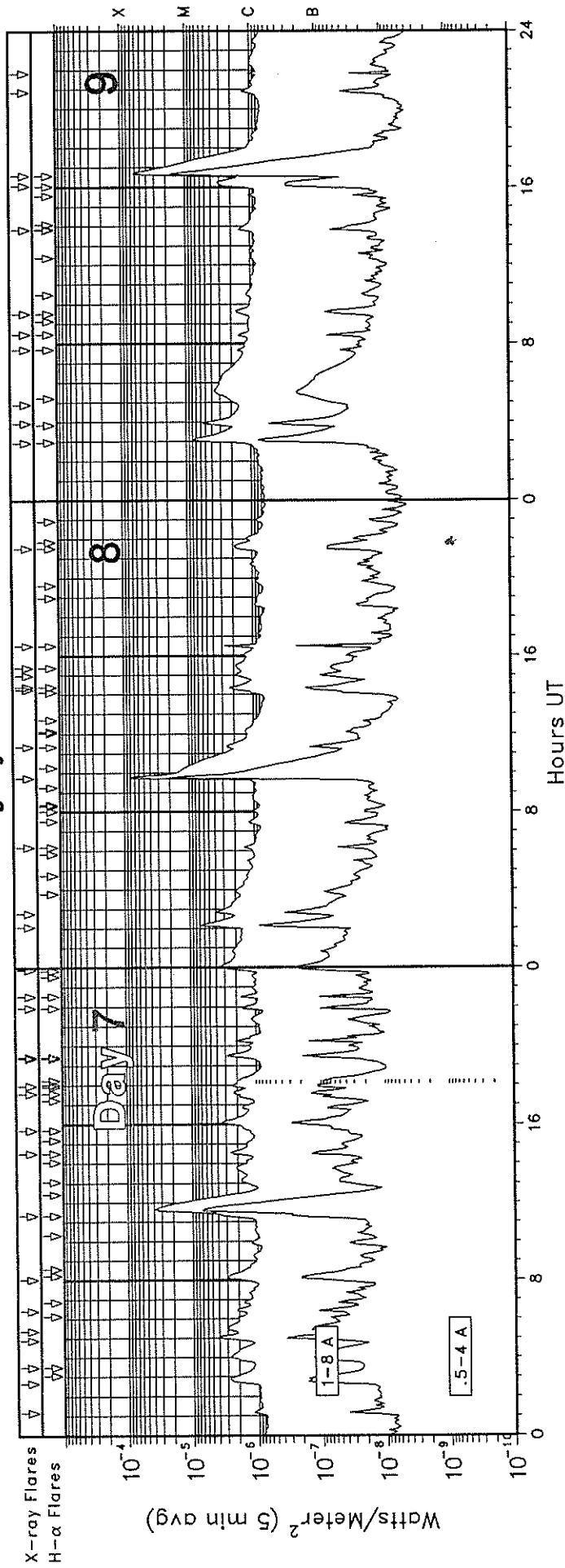
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; Hiraio, Japan 500 and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

GOES-7 X-RAY DETECTOR

July 1992

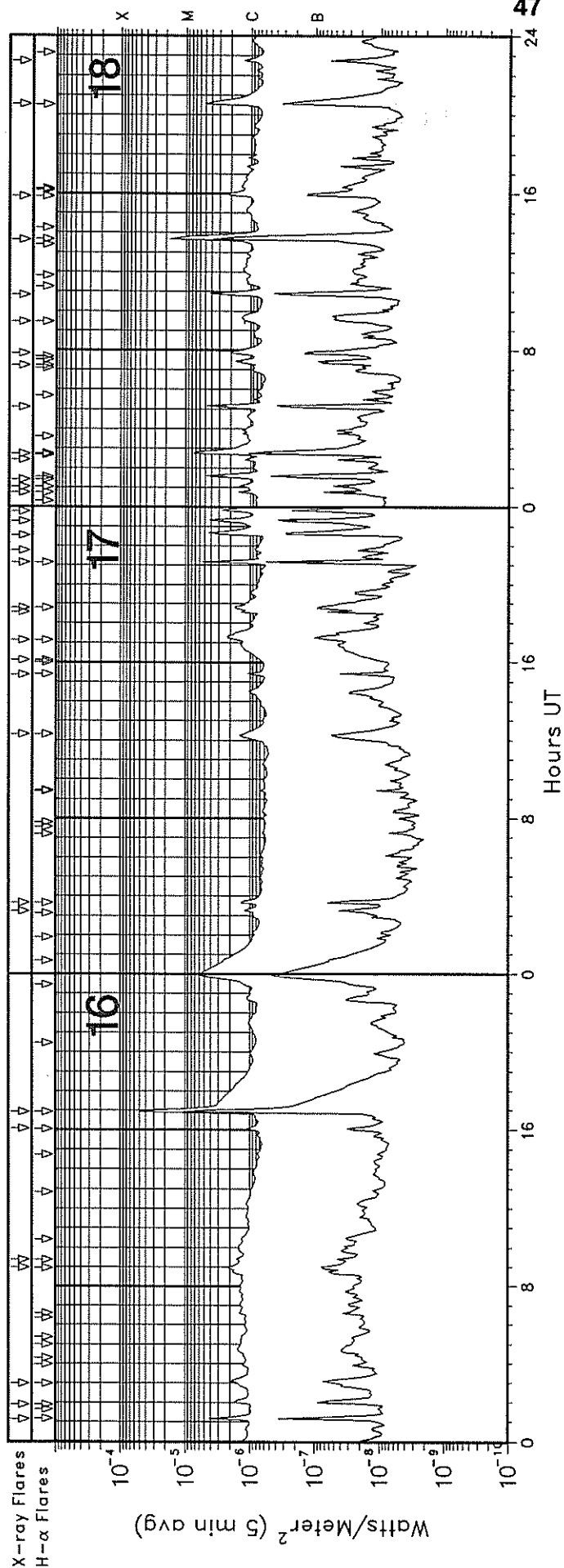
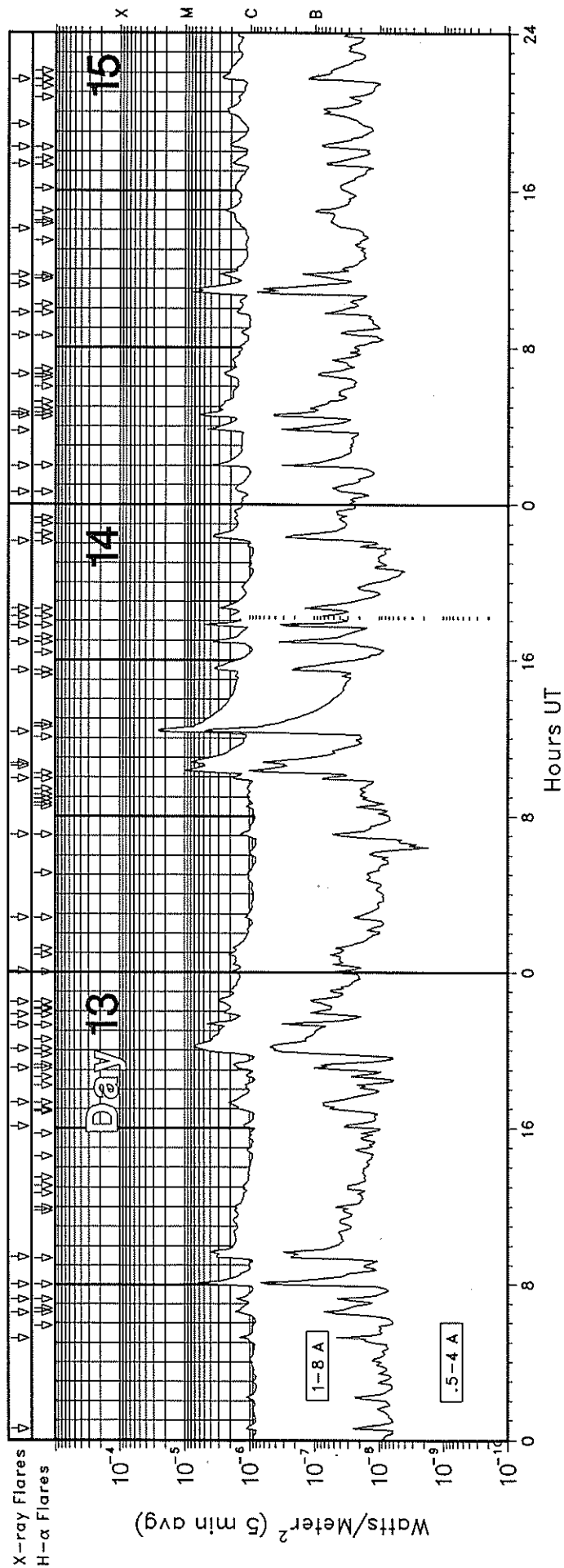


GOES-7 X-RAY DETECTOR July 1992



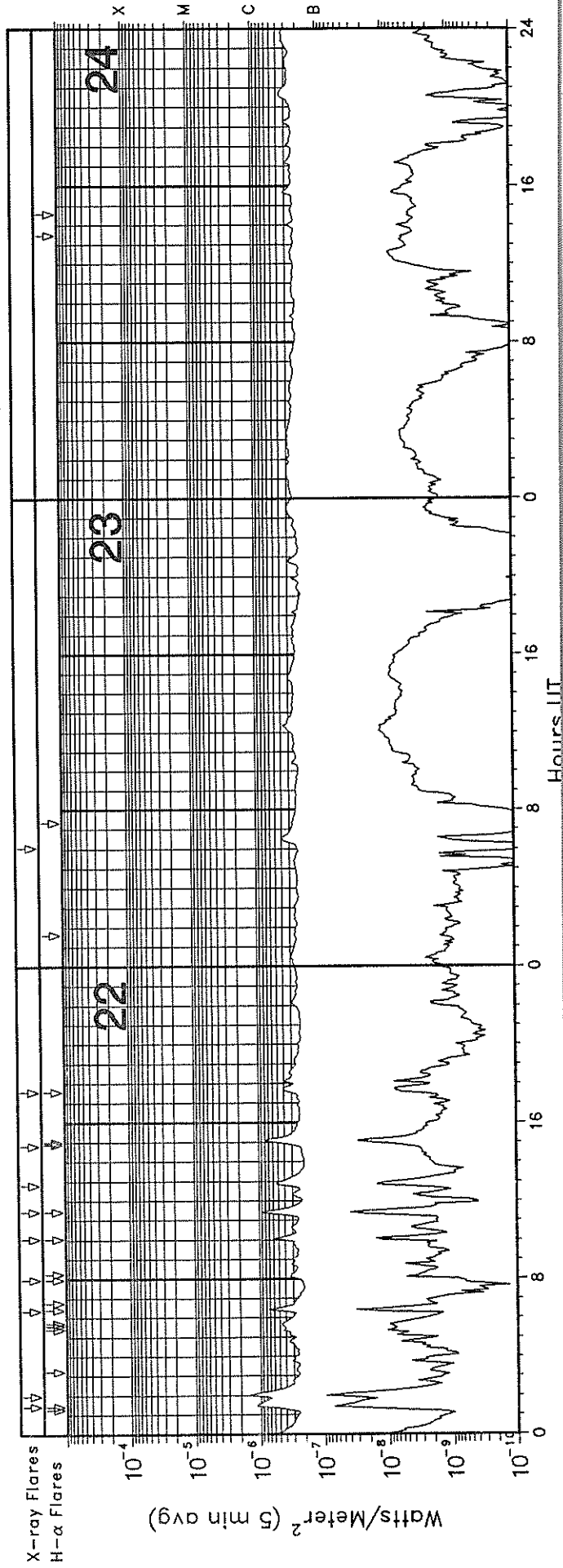
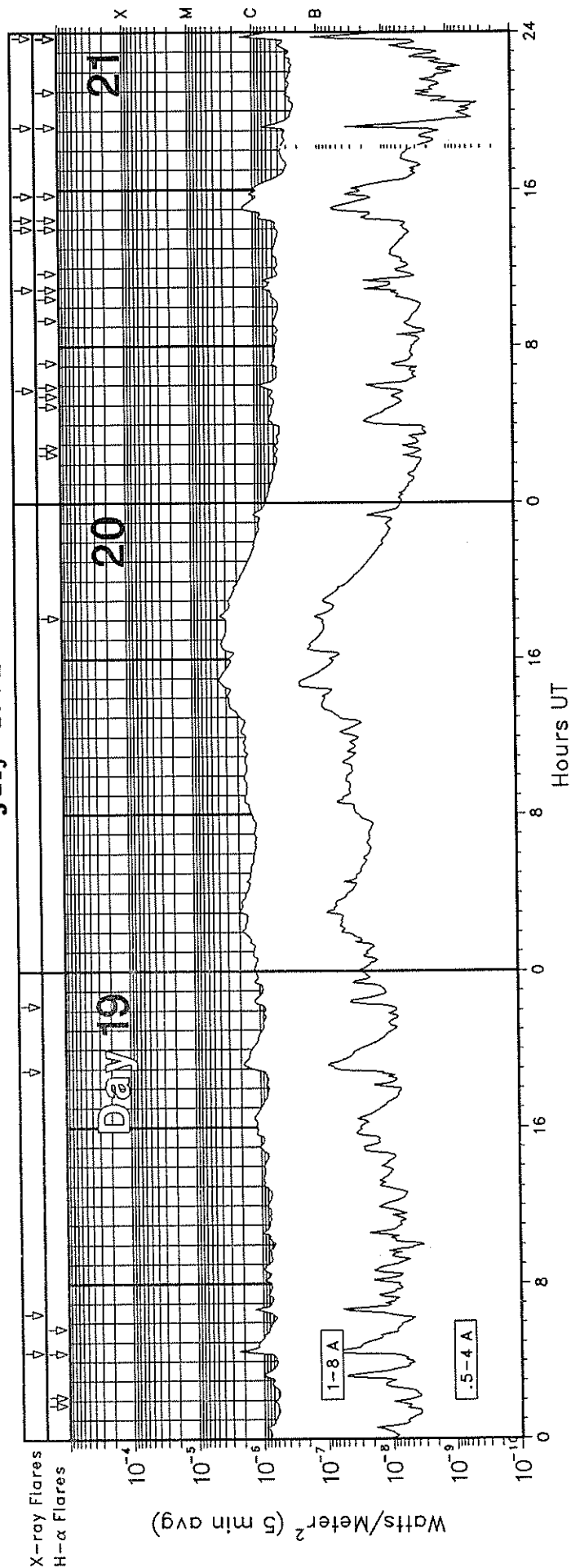
GOES-7 X-RAY DETECTOR

July 1992



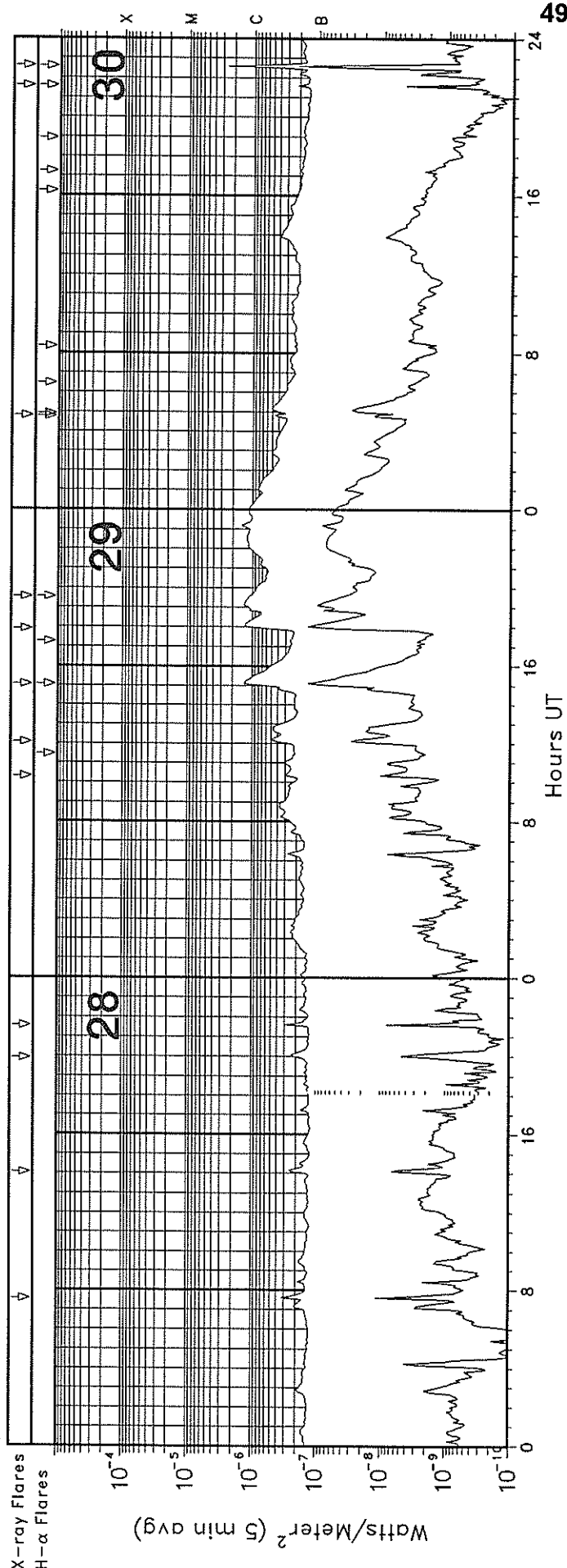
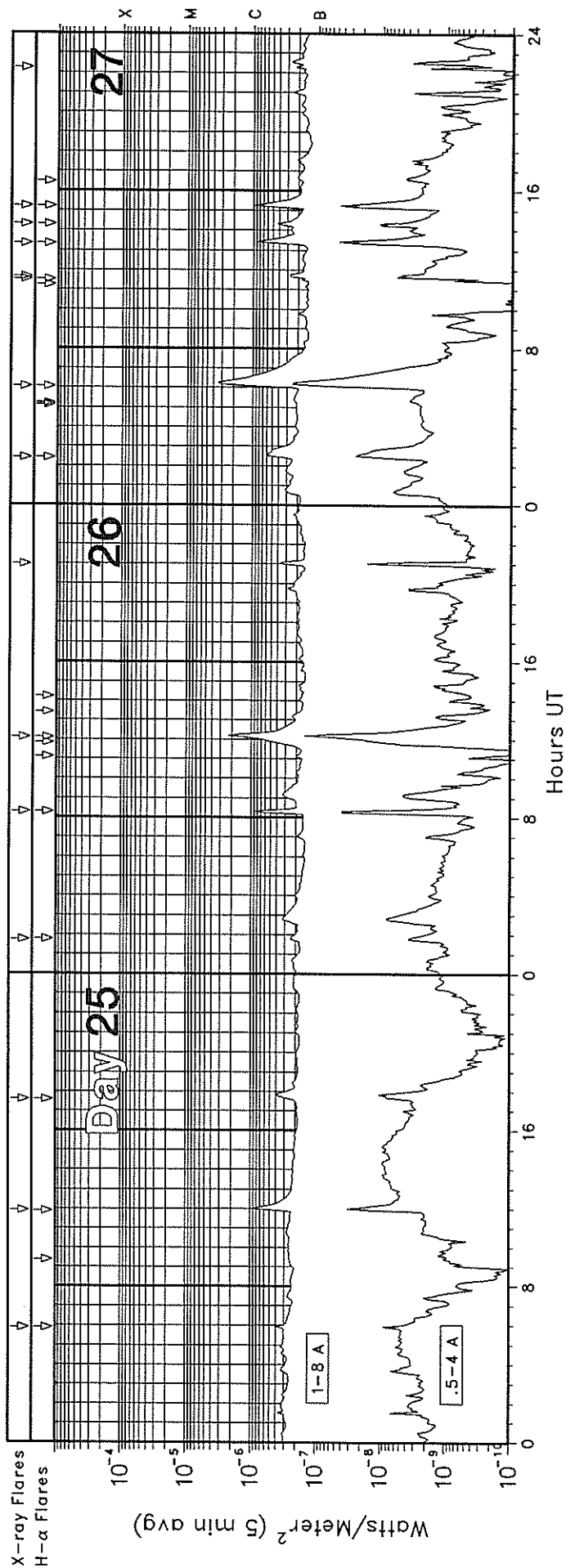
GOES-7 X-RAY DETECTOR

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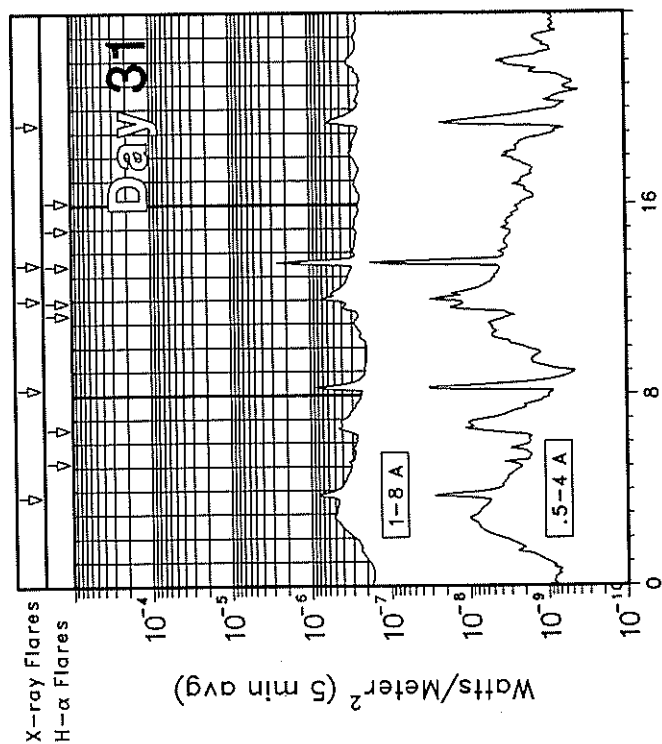
GOES-7 X-RAY DETECTOR

July 1992



GOES-7 X-RAY DETECTOR

July 1992



GOES SOLAR X-RAY FLARES
Preliminary Listing

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July 1992

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt Xray	NOAA/ USAF Region
01	0318	0324	0332			B8.7	
01	0423	0437	0445			C1.7	
01	0516	0525	0547	N07	W10	SF C1.1	7218
01	0720	0722	0728	N14	E52	SF B8.9	7216
01	0752	0807	0834	N06	W13	SF C1.0	7218
01	0937	0938	0946	N06	W15	SF B9.9	7218
01	1113	1118	1124			B8.4	
01	1149	1155	1225	N16	E50	SF C1.1	7216
01	1210	1213	1237	N07	W16	SF C1.6	7218
01	1257	1311	1339	N15	E48	SF C1.9	7216
01	1637	1642	1703	N07	W19	SF C1.2	7218
01	1720	1723	1737	N14	E48	SF B9.0	7216
01	2014	2014	2025	N07	W21	SF B5.7	7218
01	2104	2116	2120			B6.8	
01	2200	2201	2237	N16	E49	SF B6.8	7216
01	2219	2230	2303	N07	W21	SF C1.1	7218
02	0902	0909	0940D	N11	E41	SF C1.1	7216
02	1036	1043	1050			C1.0	
02	1421	1422	1439	N14	E35	SF C1.0	7216
02	1721	1723	1735	N15	E37	SF C1.0	7216
03	0901	1000	1052			M2.1	
04	1050	1057	1106			B7.1	
04	1402	1407	1425	N14	E09	SF C2.2	7216
04	2215	2221	2228			C1.3	
04	2244	2251	2255			C6.9	
05	0130	0143	0157			C1.2	
05	0207	0235	0352			C2.2	
05	0504	0506	0515			C1.3	
05	0546	0558	0609			C1.9	
05	0705	0717	0730			C2.3	
05	0832	0849	0902			C2.6	
05	0923	0933	0951			C2.0	
05	1022	1033	1037	S10	E77	SF C1.4	7220
05	1056	1100	1102	S10	E77	SF C2.0	7220
05	1141	1204	1231	S11	E84	SF C4.1	7220
05	1223	1238	1255			C6.1	
05	1311	1317	1332			C4.0	
05	1400	1445	1457	S12	E87	SF C7.9	7220
05	1521	1525	1535	S10	E81	SF C6.2	7220
05	1753	1801	1842			C8.6	
05	1958	2001	2013	S13	E81	1N M1.1	7220
05	2137	2137	2146D	S10	E82	SF C3.6	7220
05	2210	2213	2228	S12	E78	SF M1.9	7220
05	2339	2340	2346D	S09	E85	1N M1.4	7220
06	0147	0150	0205	S12	E79	1F M3.9	7220
06	0336	0337	0404	N15	W11	SF C2.5	7216
06	0447	0453	0500			C5.2	
06	0620	0626	0642			C2.5	
06	0759	0803	0807			C2.4	
06	1652	1700	1732	N14	W16	SF C4.4	7216
06	1915	1918	1927	S12	E66	SF C2.0	7220
06	2005	2022	2027	S11	E67	SF C2.5	7220
06	2036	2041	2049			C1.5	
06	2247	2253	2257			C2.2	
06	2311	2317	2334			C1.9	
07	0109	0113	0115			C1.2	
07	0240	0257	0308			C2.8	
07	0329E	0337U	0433D	S11	E80	SF C3.0	7222

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt Xray	NOAA/ USAF Region
07	0453	0505	0511			C4.7	
07	0521	0527	0621			C2.9	
07	0625	0630	0634			C2.4	
07	0802	0807	0809			C3.6	
07	1120E	1130U	1230	S11	E57	SB M4.1	7220
07	1431	1434	1447	S12	E75	SF C2.9	7222
07	1542	1607	1646	S11	E54	SF C3.8	7220
07	1734	1737	1756	S12	E54	SF C2.6	7220
07	1758	1803	1809	S11	E55	SF C2.5	7220
07	1922	1935	1951	S11	E52	SF C3.0	7220
07	1927	1927	2027	N15	W32	SN C2.2	7216
07	2156	2157	2211	S11	E50	SF C1.9	7220
07	2232	2232	2243	S11	E51	SF C2.2	7220
07	2354	2401	2418	S10	E53	SF C3.4	7220
08	0205	0213	0223			C7.1	
08	0247	0253	0302			C3.9	
08	0611	0655	0714	S11	E47	SF C1.7	7220
08	0945	0948	1042	S11	E46	1B X1.2	7220
08	1120	1122	1137	S11	E45	SF C2.8	7220
08	1414	1415	1525	S10	E43	SN C2.4	7220
08	1423	1423	1428	S11	E64	SF C2.7	7222
08	1458	1501	1507	S10	E45	SF C1.9	7220
08	1522	1522	1528	S09	E44	SF C1.8	7220
08	1630	1631	1640	S11	E63	SF C3.6	7222
08	2131	2132	2146	S09	E43	SF C1.9	7220
09	0256	0309	0321			C7.9	
09	0355	0358	0410	S12	E45	SN C5.8	
09	0453	0536	0628			C3.7	
09	0741	0741	0746	S10	E39	SF C1.6	7220
09	0828	0829	0837	S11	E32	SF C1.8	7220
09	0931	0940	0948	N14	W54	SF C1.7	7216
09	1350	1352	1409	S11	E31	SF C1.6	7220
09	1604	1615	1628	S11	E30	SF C3.1	7220
09	1635	1647	1749	S13	E28	2B M6.7	7220
09	2052	2057	2104			C1.3	
09	2150	2153	2155			C1.1	
10	0810	0815	0820			C1.4	
10	0853	0901	0917			C3.3	
10	0941E	0951U	1124D	S08	E37	1N C1.9	7222
10	0947	0952	0957			C3.3	
10	1102	1105	1108			C2.0	
10	1407	1412	1417			C2.3	
10	1620	1626	1649	S12	E34	SF C1.6	7222
10	1752	1752	1809	S09	E16	SF C1.2	7220
10	1847	1906	1924	S13	E15	SF C1.9	7220
10	1950	1955	2010	S11	E33	SF C2.0	7222
10	2029	2030	2038	S11	E13	SF C2.7	7220
10	2130E	2154U	2221D	N14	W74	SF C5.8	7216
10	2300	2314	2338			C6.2	
10	2347	2352	2410	S12	E30	SF C7.0	7222
11	0234	0240	0315	S13	E20	SF C2.4	7222
11	0428	0429	0435	N10	W77	SF C6.0	7216
11	0828	0832	0858	S11	E06	SF C2.0	7220
11	1046	1049	1052			C1.4	
11	1517	1528	1542			C5.3	
11	1919	1922	1932	S12	E19	SF C1.6	7222
12	0256	0257	0319	S05	W26	SF C1.2	7219
12	0351	0401	0414	S12	E14	SF C1.8	7222
12	0639	0644	0655	S14	W06	SF C1.9	7220

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GOES SOLAR X-RAY FLARES
Preliminary Listing

July 1992

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
12	0822	0823	0828	S13	W05	SF	C1.8	7220
12	0927	0933	0949	S14	W06	SF	C2.6	7220
12	1151	1252	1328				C2.8	
12	1401	1410	1420				C1.8	
12	1718	1724	1730				C4.2	
12	1831	1836	1839				C3.1	
12	1850	1852	1908	S05	W32	SF	C2.8	7219
12	2037	2041	2047				C1.5	
12	2106	2122	2149				C3.2	
13	0034	0038	0045				C1.2	
13	0514	0518	0521				C1.5	
13	0633E	0639U	0644D	S12	W01	SF	C1.7	7222
13	0714	0717	0721	S13	W15	SF	C1.8	7220
13	0801	0805	0820	S09	W06	SN	C7.6	7222
13	0926	0928	0957D	S10	W11	1N	C4.3	7222
13	1606	1607	1614	S07	W08	SF	C1.3	7222
13	1720	1720	1725	S14	W26	SF	C2.1	7220
13	1905	1905	1922	S09	W13	SF	C1.9	7222
13	2005	2013	2051	S05	W50	1N	C7.3	7219
13	2118	2121	2133	S10	W31	1N	C4.7	7220
13	2150	2158	2210	S09	W19	SF	C2.7	7222
13	2228	2229	2248	S23	W01	SF	C3.1	7226
14	0004	0004	0030	S21	W01	SF	C2.1	7226
14	0249	0249	0258	S11	W15	SF	C1.3	7222
14	0704	0708	0719	S24	W07	SF	C1.3	7226
14	0955	0957	1027	S08	W55	SF	C1.8	7219
14	1034E	1034U	1159D	N20	E41	SN	M1.0	7229
14	1043	1048	1054				C7.9	
14	1218	1229	1311	S13	W21	1N	M2.7	7222
14	1528	1537	1613	S22	W11	1N	C3.9	7226
14	1655	1657	1718	S12	W18	SF	C4.1	7222
14	1747	1749	1835	S09	W32	1B	C6.0	7222
14	1813	1814	1824	S13	W21	SF	C2.3	7222
14	1838	1841	1849	S08	W31	SF	C3.3	7222
14	2207	2228	2302	S11	W38	SF	C3.8	7220
15	0038	0039	0106	S10	W37	SF	C1.7	7220
15	0158	0203	0208				C4.2	
15	0346	0351	0356				C5.3	
15	0432E	0437U	0452	S12	W41	SN	C6.4	7222
15	0442	0505	0522	S25	W16	1F	C3.0	7226
15	0637	0645	0651	S24	W18	SF	C2.5	7226
15	0836	0843	0907	S21	W21	SF	C1.4	7226
15	0947	0949	0957	S24	W19	SF	C1.7	7226
15	1113	1113	1118	S09	W42	SF	C7.0	7220
15	1143	1147	1150				C3.1	
15	1403	1459	1525	S11	W40	SF	C2.8	7222
15	1721	1723	1740	S12	W33	SF	C2.0	7222
15	1813	1820	1833	S24	W24	SF	C2.1	7226
15	1922	2009	2023				C2.3	
15	2139	2141	2204	S13	W39	SF	C2.7	7222
16	0108	0113	0117				C5.0	
16	0153	0200	0224	S14	W56	SF	C1.8	7220
16	0259	0305	0333	S22	W29	SF	C1.9	7226
16	0858	0858	0903	S14	W41	SF	C2.6	7222
16	0923	0927	0938	S12	E41	SF	C1.7	7230
16	1604	1605	1611	S14	W57	SF	C1.2	7222
16	1656	1659	1725	S10	W61	2B	M6.8	7222
17	0314	0317	0318D	S14	W70	SN	C1.3	7220
17	0340	0342	0350	S13	W70	SF	C1.5	7220
17	1219	1222	1234	N16	E55	SF	C1.5	7232

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
17	1522E	1526	1546	S15	W84	SF	C1.3	7220
17	1606	1656	1714	N19	E48	SF	C1.3	7232
17	1707	1716	1802	N10	W08	1F	C2.3	7227
17	1835	1839	1842				C2.0	
17	1847	1848	1900	S11	W62	SN	C3.6	7222
17	2109	2112	2129	S12	W72	SF	C7.1	7220
17	2146	2150	2154				B9.6	
17	2233	2241	2246				C5.3	
17	2316	2320	2324				C5.9	
17	2346	2353	2357				C2.9	
18	0044	0045	0048	S13	W86	SF	C1.7	7222
18	0102	0104	0118	N17	E49	SF	C1.5	7232
18	0124	0132	0143	S10	W66	SF	C5.1	7222
18	0225	0228	0232				C1.3	
18	0243	0244	0326	N09	W13	SF	M1.0	7227
18	0505	0511	0514				C5.8	
18	0713	0713	0726	N06	W71	SF	C1.7	7233
18	0750	0755	0800				C2.4	
18	0928	0941	0945				C1.5	
18	1049	1057	1059				C5.8	
18	1338	1344	1356				M2.0	7220
18	1552	1553	1555	N16	E37	SF	C2.6	7232
18	2032	2037	2116D	N16	E40	1N	C5.6	7232
18	2243	2248	2251				C1.4	
19	0427	0431	0513	N24	W20	SF	C2.6	7229
19	0627	0641	0647				C1.3	
19	1854	1915	2051				C1.8	
19	2216	2230	2247				C1.2	
21	0546	0602	0607				B8.5	
21	1055	1121	1146	N22	W49	SF	B7.6	7229
21	1400	1408	1426	S15	W29	SF	B4.7	7230
21	1430	1433	1527	S14	W30	SF	C1.4	7230
21	1542	1550	1552				C1.1	
21	1544	1626	1657	N24	W51	SF	C1.0	7229
21	1910	1911	1931	N22	W53	SF	B8.1	7229
21	2343	2344	2417	N23	W56	SF	C1.6	7229
22	0126	0126	0138	N23	W56	SF	C1.1	7229
22	0157	0203	0208				C1.6	
22	0621	0628	0634				B7.5	
22	0758	0807	0834	N18	W59	SF	B3.4	7229
22	1003	1003	1014	N21	W62	SF	B6.5	7229
22	1127E	1133U	1140	N20	W62	SF	B9.6	7229
22	1249	1256	1305				B5.5	
22	1449	1509	1531	N22	W64	SF	B8.0	7229
22	1734	1740	1754	N22	W66	SF	B4.2	7229
23	0604	0636	0649				B4.1	
25	0554	0555	0602	S19	E69	SF	B4.4	7238
25	1155	1203	1212				B9.2	
25	1736	1746	1817	N18	W39	SF	B4.1	7236
26	0146	0150	0157				B2.7	
26	0818	0819	0826	S22	E60	SF	C1.3	7238
26	1206	1214	1228	S21	E58	SF	C2.6	7238
26	2059	2105	2108				B5.3	
27	0225	0240	0300	S20	E45	SF	B6.4	7238
27	0603	0607	0642	S18	E42	1F	C3.5	7238
27	1131	1131	1137	S18	E38	SF	B2.0	7238
27	1139	1143	1155	S21	E40	SF	B3.3	7238

GOES SOLAR X-RAY FLARES
 Preliminary Listing

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July 1992

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
27	1321	1327	1348	N13	W74	SF	B9.4	7232
27	1418	1421	1428	N14	W75	SF	B4.8	7232
27	1513	1516	1536	N18	W66	SN	C1.0	7236
27	2214	2218	2221				B2.4	
28	0734	0738	0742				B3.6	
28	1403	1410	1417				B2.6	
28	1955	2004	2008				B2.7	
28	2134	2138	2140				B4.1	
29	1018	1023	1040				B3.0	
29	1204	1213	1224				B5.0	
29	1504	1504	1509	N17	W91	SF	C1.3	7236

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
29	1755	1808	1839				C1.2	
29	1932	1936	1938	N20	E48	SF	C1.3	7242
30	0448	0450	0457	S20	W02	SF	B6.3	7238
30	2135	2136	2139	N20	E34	SF	B2.5	7242
30	2237E	2237U	2250D	N20	E34	SF	C3.2	7242
31	0343	0349	0356				B8.7	
31	0815	0820	0825				C1.0	
31	1200	1208	1245	S18	W16	SF	B7.3	7238
31	1330	1334	1349	N20	E26	SF	C2.8	7242
31	1921	1930	1941				B6.0	

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Preliminary GOES Satellite Data
Daily Average X-ray Background
Aug 1991 - Jul 1992

Day	1991					1992						
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
1	C1.8	B6.6	C1.3	C1.3	B9.4	C2.0	C1.7	B9.2	C1.2	B4.2	B1.4	B3.9
2	C1.5	B8.9	C1.5	C1.3	B8.8	C1.9	C2.6	B9.1	B7.5	B4.5	B1.4	B3.6
3	C1.2	C1.2	C1.8	C1.3	B7.8	C2.3	C3.0	B8.3	B7.8	B3.5	B1.6	B4.1
4	C1.0	C1.0	C1.1	C1.3	B9.3	C2.5	C1.9	B8.0	B9.7	B6.3	B1.7	B3.1
5	B8.4	B8.5	C1.2	C1.1	C1.2	C2.1	C2.2	B8.6	C1.0	B7.6	B2.0	C1.1
6	B7.4	C1.2	B9.9	C1.1	C1.1	C1.5	C2.2	B8.5	B6.8	B4.4	B2.3	C1.2
7	B7.9	C2.6	C1.2	C1.2	C1.5	C1.6	C2.2	B9.5	B5.0	B4.3	B2.4	B8.8
8	B6.4	C3.1	C1.4	C1.2	C1.7	C1.8	C1.4	---	B6.0	B3.2	B2.4	B7.3
9	B7.2	C1.2	C1.4	C1.1	C3.4	C1.8	C1.6	B9.8	B4.3	B2.8	B3.3	B7.0
10	B5.9	C1.4	C1.0	C1.0	C2.8	C1.5	C1.6	B7.6	B4.1	B2.4	B3.5	B8.5
11	B5.6	B9.8	B8.1	B8.6	C1.7	C1.5	C1.4	B6.0	B4.0	B2.6	B3.5	B8.6
12	B5.8	B8.1	C1.0	B8.9	C1.5	C1.2	C1.0	B6.1	B4.6	B2.7	B3.3	B8.8
13	B6.9	B7.5	B7.6	B6.8	C1.5	C1.0	B8.5	B5.5	B4.5	B2.6	B3.2	B9.1
14	C1.1	B7.5	C1.1	B8.2	C1.6	C1.0	C1.2	B6.9	B4.7	B3.2	B3.2	B9.1
15	C2.0	---	B8.4	B7.3	C1.4	B9.7	C1.8	B8.7	B4.7	B3.0	B2.8	C1.1
16	C2.7	B7.0	B7.9	B7.6	C1.7	B6.8	C1.5	B7.5	B6.7	B2.1	B2.4	B6.9
17	C1.7	B8.0	B6.5	B7.9	C1.4	B6.5	C1.1	B7.3	B9.6	B1.8	B2.8	B5.5
18	C1.5	B8.5	B5.4	B8.5	C1.3	B6.5	C2.0	B7.1	C1.1	B2.2	B2.7	B7.3
19	C1.5	B8.4	B5.6	B8.6	C1.2	B7.6	C2.0	B6.6	C1.2	B5.9	B2.2	B7.1
20	C1.6	B8.1	B8.3	B8.1	C1.3	B7.3	C1.9	B6.0	B9.4	B4.3	B2.2	B9.8
21	C1.4	B9.1	C1.3	B4.8	C2.1	B8.0	C2.4	B5.9	C1.0	B4.0	B2.3	B3.4
22	C1.9	B9.5	C1.5	B4.1	C2.1	B9.5	C1.6	B5.3	B7.3	B3.5	B2.9	B2.2
23	C1.9	C1.1	C1.5	B3.9	C2.3	B9.3	C1.3	B7.8	B6.4	B3.4	B4.9	B2.2
24	C2.1	C1.5	C2.3	B3.1	C1.9	B8.6	C1.2	C1.0	B6.3	B3.3	B5.7	B2.2
25	C3.0	C1.6	C3.3	B3.5	C1.8	C1.4	C1.6	C1.3	B6.0	B2.6	B7.9	B2.0
26	C2.0	C2.0	C2.6	B4.7	C2.0	C1.5	C1.2	B7.7	B4.5	B2.4	B8.0	B1.5
27	C1.4	C1.0	C2.6	B5.1	C1.3	C1.1	C1.5	B6.5	B4.7	B2.6	B5.0	B1.4
28	C1.1	B8.7	C2.6	B4.8	C1.5	C1.3	C1.0	B7.3	B3.9	B2.7	B6.4	B1.2
29	C1.1	C1.3	C1.8	B6.1	C1.5	C1.7	C1.0	B8.0	B3.4	B2.5	B4.1	B2.0
30	C1.1	C1.0	C1.9	B9.1	C2.0	C2.2		B6.2	B3.0	B1.7	B4.3	B2.0
31	B7.7		C1.4		C1.8	C2.1		C1.0		B1.2		B1.9

MASS EJECTIONS FROM THE SUN--PROXY DATA*

JULY 1992

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Site	Mo	Day	—— Observed UT ——			Location		Freq or Wavelength	Kind of Event	
			Start	Max	End	RA*	R/Ro			
KHAR	Jul	04	1137	E	1150	D	099	1.00-1.03	H-alpha	S
VORO	Jul	06	0147	0158	0209		055	1	H-alpha	SP
VORO	Jul	06	0149	0154	0211		100	1	H-alpha	SP
VORO	Jul	06	0157	0159	0211		080	1	H-alpha	SP
KHAR	Jul	10	0950	E	1012	D	113	0.67	H-alpha	S
KHAR	Jul	14	0835	E	0858	D	248	0.44	H-alpha	S
KHAR	Jul	14	0850	E	0858	D	257-260	0.88-0.87	H-alpha	S
KHAR	Jul	14	0927	E	0955	D	249	0.47	H-alpha	S
POTS	Jul	14	1016.1		1040.7				400- 40 MHz	IV,II Harmonic
KHAR	Jul	14	1018	E	1105	D	242	0.36	H-alpha	SP
POTS	Jul	16	0727.0		0731	U			400-200 MHz	II Harmonic?
KRAK	Jul	16	0800	E	0813	D	239	1.3	H-alpha	A
SVTO	Jul	16	1602.0		1604.0				Meter	II
SGMR	Jul	16	1602.0		1605.0				Meter	II
WEIS	Jul	16	1700.0		1702.7				150-100 MHz	II
SGMR	Jul	16	1702.0		1706.0				Meter	II
PALE	Jul	19	0318.0		0327.0				Meter	II
LEAR	Jul	19	0319.0		0329.0				Meter	II
KRAK	Jul	19	1203		1236	D	244	1.05	H-alpha	S
KRAK	Jul	20	0721	E	0954	D	272-252	1.02	H-alpha	S (several)
KHAR	Jul	26	0818	E	0900	D	113	0.80	H-alpha	S
KHAR	Jul	27	1110	E	1114	D	123	0.66	H-alpha	S
KRAK	Jul	27	1145	E	1205		276	1.2	H-alpha	A

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

KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua
POTS = Potsdam
SGMR = Sagamore Hill
SVTO = San Vito
VORO = Voroshilov
WEIS = Weissenau

*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.

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ACTIVE PROMINENCES AND FILAMENTS

JULY 1992

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
01	DSF	0105U	1300U	S06	W16	06 29.9	2	12	0	0	E	HOLL		
01	DSF	0105U	1300U	S08	E17	07 2.3	2	08	0	0	E	HOLL		
01	BSL	0412E	0710D	S06	E90	07 7.9	1				C	ABST		
01	AFS	0420E	0914D	N08	W09	06 30.5		02	9	9	E	LEAR	7218	
01	EPL	0426E	0442	N17	E90	07 8.0			9	9	E	SVTO		
01	DSF	0441U	1344U	S16	W11	06 30.4		07	0	0	E	SVTO		
01	BSL	0452E	0710D	S30	E90	07 8.3	1				C	ABST		
01	AFS	0510E	0914D	N12	E55	07 5.3		04	8	5	E	LEAR	7216	
01	DSD	0530E	1405D	N19	E61	07 5.9		05	9	9	E	SVTO	7216	
01	ADF	0530E	1755D	N16	E60	07 5.8	1	11	9	9	E	SVTO	7216	
01	AFS	0546E	1755D	N07	W09	06 30.6		02	9	9	E	SVTO	7218	
01	AFS	0558E	1755D	S17	W45	06 27.9		02	9	9	E	SVTO	7214	
01	ADF	0640E	1755D	N08	W10	06 30.5	1	04	9	9	E	SVTO	7218	
01	DSD	0944E	1436D	N07	W14	06 30.3		02	9	9	E	SVTO	7218	
01	APR	1005E	1037D	N09	W90	06 24.8	1				V	KHAR		
01	AFS	1110E	2215D	N07	W12	06 30.6		02	9	9	E	RAMY	7218	
01	AFS	1110E	2215D	N07	W15	06 30.3		02	9	9	E	RAMY	7218	
01	AFS	1117E	2215D	S15	W47	06 28.0		01	9	9	E	RAMY	7214	
01	AFS	1227E	0158D	N08	W13	06 30.5		02	9	9	E	HOLL	7218	
01	AFS	1227E	0158D	N08	W16	06 30.3		02	9	9	E	HOLL	7218	
01	DSD	1320E	2215D	N07	W12	06 30.6		03	9	9	E	RAMY	7218	
01	DSD	1325E	2249D	N07	W13	06 30.6		03	9	9	E	HOLL	7218	
01	DSD	1405E	1452D	N17	E40	07 4.6		04	9	9	E	SVTO	7216	
01	AFS	1703E	0115D	N08	W12	06 30.8		02	9	9	E	PALE	7218	
01	DSD	1703E	0115D	N10	W14	06 30.6		02	9	9	E	PALE	7218	
01	SSB	2127		319	W58	06 30.2			0	0	E	PALE		
02	AFS	0020E	0928D	N07	W21	06 30.4		03	9	9	E	LEAR	7218	
02	AFS	0020E	0928D	N14	E46	07 5.5		03	9	9	E	LEAR	7216	
02	AFS	0840E	1623D	N02	W25	06 30.5		03	9	9	E	SVTO	7218	
02	ADF	0840E	1623D	N07	W24	06 30.6	1	02	9	9	E	SVTO	7218	
02	AFS	0924E	1623D	N13	E37	07 5.2		06	9	9	E	SVTO	7216	
02	AFS	1107E	2233D	N08	W24	06 30.7		03	9	9	E	RAMY	7218	
02	AFS	1110E	1652D	S14	W61	06 27.9		01	9	9	E	RAMY	7214	
02	DSD	1113E	2233D	N13	E31	07 4.8		03	9	9	E	RAMY	7216	
02	AFS	1113E	2233D	N14	E40	07 5.5		01	9	9	E	RAMY	7216	
02	AFS	1113E	2233D	N15	E43	07 5.7		02	9	9	E	RAMY	7216	
02	SSB	1118		261	W08	07 7.0			0	0	E	RAMY		284 W31 323 W70
02	ASR	1138E	1623D	S13	W90	06 25.8	1		7	8	E	SVTO		
02	AFS	1225E	0205D	N12	E36	07 5.2		02	9	9	E	HOLL	7218	
02	APR	1240E	0205D	N39	E90	07 9.8	1		8	7	E	HOLL		
02	APR	1240E	0205D	S11	W90	06 25.8	1		8	8	E	HOLL		
02	DSD	1244E	1308	N07	W30	06 30.3		07	9	9	E	SVTO	7218	Normal Emission 1/3
02	ASR	1514E	1520	N17	E90	07 9.5			8	9	E	SVTO		
02	DSF	1516U	1755U	N08	W05	07 2.3		04	0	0	E	HOLL	7217	
02	BSL	1517E	1525	N14	E76	07 8.4			6	7	E	HOLL		
02	AFS	1614E	2233D	N14	E80	07 8.7		01	9	9	E	RAMY		
02	BSL	2003E	2047D	N39	E90	07 10.1			9	6	E	HOLL		
02	AFS	2105E	0341D	N15	E34	07 5.4		03	9	9	E	PALE	7216	
02	AFS	2105E	0442D	N03	W23	07 1.1		02	9	9	E	PALE	7218	
02	DSD	2105E	0442D	N07	W28	06 30.8		04	9	9	E	PALE	7218	
02	ADF	2105E	0442D	N19	E35	07 5.5	1	06	9	9	E	PALE	7216	
02	SSB	2107		326	W78	06 30.5			0	0	E	PALE		
02	DSD	2120E	2233D	N03	W27	06 30.9		04	9	9	E	RAMY	7218	
02	DSD	2207E	2233D	N03	W30	06 30.7		03	9	9	E	RAMY	7218	
03	AFS	0012E	0059D	N10	E25	07 4.9		02	9	9	E	LEAR	7216	
03	DSD	0012E	0059D	N14	E27	07 5.0		03	9	9	E	LEAR	7216	
03	AFS	0013E	0059D	N08	W32	06 30.6		03	9	9	E	LEAR	7218	
03	DSD	1058E	1356D	N13	E27	07 5.5		02	9	9	E	RAMY	7216	
03	DSD	1058E	1356D	N13	E28	07 5.6		02	9	9	E	RAMY	7216	
03	AFS	1107E	2129D	N18	E28	07 5.6		01	9	9	E	RAMY	7216	
03	AFS	1120E	1718D	N09	W37	06 30.7		02	9	8	E	RAMY	7218	
03	ASR	1339E	1629D	N06	W90	06 26.9			9	9	E	RAMY	7212	
03	ASR	1341E	1615D	N07	W85	06 27.3			9	9	E	HOLL	7212	
03	AFS	1416E	2129D	N06	W20	07 2.1		01	9	9	E	RAMY	7217	
03	DSD	1430E	1621D	N17	E27	07 5.6		03	9	9	E	RAMY	7216	Flare Associated
03	SSB	1447		287	W49	07 10.9			0	0	E	HOLL		
03	DSD	1526E	1713D	N14	E27	07 5.7		02	9	9	E	RAMY	7216	
03	DSD	1618E	2040D	N18	E27	07 5.7		03	9	9	E	HOLL	7216	

ACTIVE PROMINENCES AND FILAMENTS

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Jul 92

JULY 1992

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
03	AFS	1630E	1642D	N18	E26	07 5.7		02	9	9	E	SVTO	7216	
03	DSD	1630E	1642D	N19	E25	07 5.6		03	9	9	E	SVTO	7216	
03	AFS	1705E	0446D	N12	E21	07 5.3		03	9	9	E	PALE	7216	
03	DSD	1705E	0446D	N16	E26	07 5.7		03	9	9	E	PALE	7216	
03	AFS	1712E	0446D	N06	W21	07 2.1		02	9	9	E	PALE	7217	
03	AFS	1716E	0446D	N07	W40	06 30.7		02	9	9	E	PALE	7218	
03	AFS	1727E	0446D	S22	E01	07 3.8		02	9	9	E	PALE	7215	
03	SSB	1738		246	W09	07 7.2			0	0	E	PALE		
03	AFS	1746E	0145D	N06	W22	07 2.1		02	9	9	E	HOLL	7217	
03	ASR	1950E	2002D	S13	E90	07 10.6			9	9	E	RAMY		
04	APR	0047E	0130D	S15	W90	06 27.3	1				C	VORO		
04	BSL	0429E	0630D	S15	W90	06 27.5	1				C	ABST		
04	AFS	0506E	1745D	N16	E18	07 5.6		02	9	9	E	SVTO	7216	
04	AFS	0601E	1745D	N05	W53	06 30.3		01	9	9	E	SVTO	7218	
04	DSD	0601E	1745D	N17	E55	07 8.4		01	9	9	E	SVTO		
04	DSD	0624E	0839D	N06	W45	06 30.9		03	9	9	E	SVTO	7218	
04	ASR	1000E	1045D	N10	W90	06 27.7			9	9	E	SVTO	7210	
04	AFS	1122E	1941D	N07	E30	07 6.7		01	7	7	E	RAMY	7217	
04	ASR	1130E	1941D	S12	E90	07 11.2			9	9	E	RAMY		
04	BSL	1137E	1150D	S09	E90	07 11.2	1				V	KHAR		
04	ASR	1141E	1745D	S10	E90	07 11.2			9	9	E	SVTO		
04	DSD	1250E	1745D	N16	E13	07 5.5		04	9	9	E	SVTO	7216	
04	DSD	1324E	2347D	N14	E05	07 4.9		02	9	9	E	HOLL	7216	
04	AFS	1324E	2347D	N14	E10	07 5.3		02	9	9	E	HOLL	7216	
04	ASR	1457E	2347D	S11	E90	07 11.4			9	9	E	HOLL		
04	ADF	1510E	1745D	S01	E79	07 10.5	1	06	9	9	E	SVTO		
04	AFS	1722E	0445D	N15	E07	07 5.2		04	9	9	E	PALE	7216	
04	DSD	1724E	0445D	N14	E08	07 5.3		02	9	9	E	PALE	7216	
04	ADF	1726E	0445D	N07	E84	07 11.0		05	9	9	E	PALE		
04	DSD	1727E	0445D	N06	W50	07 1.0		02	6	7	E	PALE	7218	
05	BSL	0626E	0700D	S12	E90	07 12.0	1				C	ABST		
05	DSD	0715E	1735D	N02	W66	06 30.4		03	9	9	E	SVTO	7218	
05	AFS	0716E	1735D	N13	E06	07 5.7		01	8	8	E	SVTO	7216	
05	ADF	0717E	1735D	S02	E71	07 10.6	1	05	9	9	E	SVTO	7219	
05	ASR	0718E	1735D	N11	E90	07 12.1			9	9	E	SVTO		
05	AFS	0904E	1735D	N14	W01	07 5.3		03	9	9	E	SVTO	7216	
05	AFS	0912E	1735D	N04	W60	06 30.9		01	9	9	E	SVTO	7218	
05	ASR	1112E	2209D	S12	E81	07 11.6			9	9	E	RAMY	7220	
05	AFS	1225E	2209D	N06	W60	07 1.0		02	9	9	E	RAMY	7218	
05	AFS	1225E	2209D	N14	W03	07 5.3		02	7	7	E	RAMY	7216	
05	AFS	1225E	2209D	N16	W03	07 5.3		04	9	9	E	RAMY	7216	
05	ASR	1232E	0158D	S11	E88	07 12.1			9	9	E	HOLL		
05	SSB	1335		231	W18	07 7.9			0	0	E	HOLL		
05	AFS	1528E	2209D	N15	E36	07 8.4		01	8	8	E	RAMY		
05	ASR	1610E	1735D	S12	E90	07 12.4			9	9	E	SVTO	7220	
05	ADF	1636E	2209D	N16	W02	07 5.5	1	05	9	9	E	RAMY	7216	
05	EPL	1752	1915D	S17	W90	06 29.0			9	9	E	HOLL		
05	EPL	1755E	1831D	S10	W90	06 29.1	3		9	9	E	RAMY		
05	AFS	1854E	0158D	N10	E78	07 11.6		02	9	9	E	PALE	7220	
05	ASR	1854E	0158D	N13	E90	07 12.6			9	9	E	PALE	7220	
05	DSD	1910E	0158D	N13	W08	07 5.2		02	9	9	E	PALE	7216	
05	ADF	1910E	0158D	N15	W10	07 5.0		07	9	9	E	PALE	7216	
05	DSF	2000U	1436U	S16	W37	07 3.0		06	0	0	E	HOLL		
05	DSF	2000U	1703U	S12	E35	07 8.5		08	0	0	E	HOLL		
05	SSB	2101		210	W19	07 6.6			0	0	E	PALE		232 W23
05	APR	2200E	2245D	S16	W90	06 29.2	1				C	VORO		
05	BSL	2240E	2315D	S10	E90	07 12.7	1				C	VORO		
06	BSL	0015E	0031	S10	E90	07 12.8	1				C	VORO		
06	BSL	0130	0147	S11	E90	07 12.8	1				C	VORO		
06	ADF	0145E	0900D	N16	W05	07 5.7	1	10	9	9	E	LEAR	7216	
06	BSL	0147	0209	S06	E90	07 12.8	1				C	VORO		
06	BSL	0149	0211	S12	E90	07 12.8	1				C	VORO		
06	BSD	0150E	0900D	S10	E73	07 11.6		06	9	9	E	LEAR	7220	
06	BSL	0157	0211D	S08	E90	07 12.8	1				C	VORO		
06	DSF	0846U	0725U	S04	E30	07 8.6		07	0	0	E	LEAR		
06	SSB	1100		217	W17	07 7.7			0	0	E	RAMY		231 W31
06	ADF	1124E	2231D	S14	E72	07 11.9	1	10	9	9	E	RAMY	7220	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
06	ASR	1248E	2302D	S10	E90	07 13.3			9	9	E	HOLL	7220	
06	ASR	1420E	0000	N09	W90	06 29.9			8	7	E	RAMY	7218	
06	ASR	1448E	2302D	N06	W90	06 30.0			9	9	E	HOLL	7218	
06	SSB	1625		231	W34	07 9.1			0	0	E	HOLL		
06	ASR	1635E	0435D	S07	E90	07 13.4			9	9	E	PALE		
06	DSD	1635E	0435D	S10	E64	07 11.5		03	9	9	E	PALE	7220	
06	AFS	1635E	0435D	S12	E64	07 11.5		03	9	9	E	PALE	7220	
06	AFS	1640E	0435D	N13	W19	07 5.3		03	9	9	E	PALE	7216	
06	ASR	1645E	0435D	N05	W90	06 30.0			9	9	E	PALE	7218	
06	SSB	1648		220	W22	07 8.2			0	0	E	PALE		232 W34
06	DSD	1755E	2302D	S12	E65	07 11.6		09	9	9	E	HOLL	7220	
06	DSD	1815E	2302D	N15	W12	07 5.8		02	9	9	E	HOLL	7216	
06	DSD	1815E	2302D	N15	W22	07 5.1		02	9	9	E	HOLL	7216	
06	APR	1857E	2302D	S17	W90	06 30.0	1		8	9	E	HOLL		
06	AFS	2020E	0435D	N05	W22	07 5.2		01	9	9	E	PALE	7221	
07	ASR	0653E	0842D	S15	E90	07 14.1			9	9	E	LEAR		
07	ADF	0654E	0842D	S14	E61	07 11.9	1	07	9	9	E	LEAR	7220	
07	DSD	1056E	2138D	S11	E74	07 13.0		02	9	9	E	RAMY		
07	DSD	1103E	2138D	S12	E57	07 11.7		02	9	9	E	RAMY	7220	
07	ADF	1104E	2138D	S13	E57	07 11.8	1	08	9	9	E	RAMY	7220	
07	SSB	1127		226	W39	07 9.6			0	0	E	RAMY		
07	ADF	1300E	0108D	S09	E67	07 12.6	1	19	9	9	E	HOLL	7220	
07	ADF	1300E	1618D	S03	E40	07 10.5	1	07	9	9	E	HOLL	7219	
07	DSD	1331E	1634D	S05	E41	07 10.6		02	9	9	E	RAMY	7219	
07	DSD	1639E	0436D	S10	E52	07 11.6		03	9	9	E	PALE	7220	
07	AFS	1639E	0436D	S11	E54	07 11.7		02	9	9	E	PALE	7220	
07	AFS	1643E	0436D	S14	W05	07 7.3		03	9	9	E	PALE		
07	DSD	1643E	0436D	S16	W04	07 7.4		01	9	9	E	PALE		
07	ADF	1650E	0436D	S11	E54	07 11.8		08	9	9	E	PALE	7220	
07	DSF	1730U	0651U	S04	E27	07 9.7		08	0	0	E	SVTO		
07	SSB	1852		234	W51	07 10.7			0	0	E	PALE		
07	DSD	1915E	0436D	S11	E72	07 13.2		02	9	9	E	PALE	7222	
07	DSD	1918E	0436D	N13	W37	07 5.0		04	9	9	E	PALE	7216	
07	ADF	2259E	0006D	N27	W05	07 7.6	1				C	VORO		
07	APR	2259E	0006D	N55	E90	07 15.7	1				C	VORO		
07	APR	2259E	0006D	S24	E90	07 14.9	1				C	VORO		
07	ADF	2259E	0006D	S28	E40	07 11.1	1				C	VORO		
08	AFS	0417E	0907D	S15	W10	07 7.4		03	9	9	E	LEAR	7223	
08	ADF	0418E	0907D	N15	W41	07 5.1	1	06	9	9	E	LEAR	7216	
08	DSD	0628E	1540D	S11	E54	07 12.3		04	9	9	E	SVTO	7220	Flare Associated
08	DSD	0628E	1540D	S14	E49	07 12.0		05	9	9	E	SVTO	7220	Flare Associated
08	BSL	0632E	0700D	N28	E90	07 15.3	1				C	ABST		
08	DSD	1018E	1540D	S11	E50	07 12.2		05	9	9	E	SVTO	7220	Flare Associated
08	DSD	1036E	1540D	S11	E65	07 13.3		05	9	9	E	SVTO	7222	Flare Associated
08	AFS	1253E	0143D	S15	W15	07 7.4		02	9	9	E	HOLL	7223	
08	DSD	1253E	1550D	S15	W18	07 7.2		03	9	9	E	HOLL	7223	
08	DSD	1256E	0110D	S11	E40	07 11.5		05	9	9	E	HOLL	7220	
08	DSD	1335E	2130D	S13	E39	07 11.5		07	9	9	E	HOLL	7220	
08	AFS	1350E	0143D	S11	E44	07 11.9		03	9	9	E	HOLL	7220	
08	AFS	1406E	1717D	S15	W16	07 7.4		01	9	9	E	RAMY	7223	
08	AFS	1414E	1717D	S12	E42	07 11.7		01	9	9	E	RAMY	7220	
08	AFS	1417E	1717D	N16	W37	07 5.8		01	9	9	E	RAMY	7216	
08	BSD	1423E	1515D	S11	E64	07 13.4		04	9	9	E	HOLL	7222	Flare Associated
08	DSD	1506E	1550D	S11	E46	07 12.1		03	9	9	E	HOLL	7220	Flare Associated
08	DSD	1527E	1717D	S13	E38	07 11.5		03	9	9	E	RAMY	7220	
08	DSF	1554U	0708U	N26	E26	07 10.7		12	0	0	E	SVTO		
08	DSD	1633	1710D	S11	E63	07 13.4		12	9	9	E	HOLL	7222	Flare Associated
08	SSB	1942		220	W50	07 10.5			0	0	E	HOLL		
08	APR	2215E	0100D	N25	E90	07 15.9	1				C	VORO		
08	DSD	2226E	0219D	S09	E36	07 11.6		03	9	9	E	PALE	7220	
08	AFS	2226E	0219D	S11	E36	07 11.6		03	9	9	E	PALE	7220	
08	AFS	2234E	0219D	N13	W52	07 5.0		02	9	9	E	PALE	7216	
08	ADF	2234E	0219D	N15	W46	07 5.4		07	9	9	E	PALE	7216	
08	APR	2248E	0143D	N24	E90	07 15.9	1		9	9	E	HOLL		
09	AFS	0011E	0219D	S15	W21	07 7.4		03	5	5	E	PALE	7223	
09	DSD	0215E	0731D	S13	E32	07 11.5		05	7	8	E	LEAR	7220	
09	AFS	0216E	0731D	S15	W25	07 7.2		02	9	9	E	LEAR	7223	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
09	AFS	0217E	0731D	S12	W06	07	8.6		02	9	9	E	LEAR		
09	ADF	0218E	0731D	N17	W47	07	5.5	1	13	9	9	E	LEAR	7216	
09	DSD	0520E	1730D	S09	E38	07	12.1		03	9	9	E	SVTO	7220	
09	AFS	0520E	1730D	S10	E43	07	12.4		01	9	9	E	SVTO	7220	
09	APR	0540E	1730D	N27	E90	07	16.2	2		9	9	E	SVTO		
09	AFS	0632E	1730D	S13	W08	07	8.7		01	9	9	E	SVTO		
09	ADF	0641E	1730D	N15	W50	07	5.5		07	9	9	E	SVTO	7216	
09	DSD	1020E	1208D	N11	W55	07	5.3		05	9	9	E	SVTO	7216	
09	AFS	1045E	2019D	S11	E28	07	11.5		01	9	9	E	RAMY	7220	
09	AFS	1050E	2019D	N10	W55	07	5.3		02	9	9	E	RAMY	7216	
09	AFS	1050E	2019D	N14	W47	07	5.9		02	9	9	E	RAMY	7216	
09	AFS	1112E	2019D	S12	W11	07	8.6		01	9	9	E	RAMY		
09	AFS	1122E	2019D	S25	E60	07	14.1		03	9	9	E	RAMY		
09	DSD	1130E	1950D	S11	E48	07	13.1		02	9	9	E	RAMY	7222	
09	AFS	1307E	2206D	S25	E61	07	14.3		01	8	8	E	HOLL		
09	AFS	1308E	2206D	S11	E46	07	13.0		02	9	9	E	HOLL	7222	
09	AFS	1315E	2206D	S12	W13	07	8.6		02	9	9	E	HOLL		
09	ASR	1318E	2206D	S09	E90	07	16.3			5	5	E	HOLL		
09	SSB	1327		223	W63	07	11.6			0	0	E	HOLL		
09	ADF	1505E	2206D	S12	E27	07	11.7	1	04	9	9	E	HOLL	7220	
09	DSD	1505E	2206D	S13	E24	07	11.4		03	9	9	E	HOLL	7220	
09	LPS	1808E	2113D	S10	E25	07	11.6			9	9	E	HOLL	7220	
09	AFS	1950E	2019D	S10	E41	07	12.9		02	9	9	E	RAMY	7222	
10	AFS	0145E	0935D	S12	E24	07	11.9		03	5	5	E	LEAR	7220	
10	AFS	0150E	0935D	S13	W20	07	8.6		03	6	5	E	LEAR	7224	
10	AFS	0155E	0935D	S10	E39	07	13.0		03	6	4	E	LEAR	7222	
10	APR	0745E	0800D	N23	E90	07	17.2					V	ATHN		
10	DSD	0950E	1012D	S12	E40	07	13.4	1				V	KHAR		
10	AFS	1114E	2236D	N11	W74	07	4.9		02	9	9	E	RAMY	7216	
10	AFS	1127E	2236D	S12	W26	07	8.5		01	9	9	E	RAMY	7224	
10	AFS	1148E	2236D	S26	E48	07	14.2		01	9	9	E	RAMY	7226	
10	AFS	1414E	1730D	S14	E19	07	12.0		02	9	9	E	SVTO	7220	
10	DSD	1414E	1730D	S15	E21	07	12.2		02	9	9	E	SVTO	7220	
10	AFS	1422E	1730D	S09	E32	07	13.0		02	9	9	E	SVTO	7222	
10	ADF	1422E	1730D	S15	E39	07	13.5	1	05	9	9	E	SVTO	7222	
10	AFS	1430E	1730D	S24	E46	07	14.1		02	9	9	E	SVTO		
10	SSB	1449		149	W03	07	14.3			0	0	E	SVTO		
10	SSB	1545		220	W75	07	12.5			0	0	E	HOLL		
10	ASR	1549E	1730D	N09	E90	07	17.4			9	9	E	SVTO		
10	AFS	1549E	1730D	N22	E59	07	15.2		01	9	9	E	SVTO		
10	APR	1549E	1730D	N24	E76	07	16.5	1		7	6	E	SVTO		
10	AFS	1550E	0028D	S25	E44	07	14.1		02	9	9	E	HOLL		
10	ADF	1555E	0028D	S13	E30	07	12.9	1	06	9	9	E	HOLL	7222	
10	ASR	1559E	0028D	N08	E90	07	17.4			9	9	E	HOLL		
10	AFS	1600E	0028D	N21	E59	07	15.2		01	6	6	E	HOLL		
10	BSD	1602E	0028D	N13	W78	07	4.8		03	9	9	E	HOLL	7216	
10	ASR	1650E	0450D	N06	E90	07	17.4			9	9	E	PALE		
10	ASR	1704E	1730D	N15	E90	07	17.5			9	8	E	SVTO		
10	ADF	1720E	0450D	S06	E16	07	11.9		03	9	9	E	PALE	7220	
10	DSD	1720E	0450D	S11	W27	07	8.7		01	9	9	E	PALE	7224	
10	ASR	1720E	2236D	N07	E90	07	17.5			9	9	E	RAMY		
10	DSD	1750E	2236D	N15	W67	07	5.7		02	9	9	E	RAMY	7216	
10	AFS	1826E	2236D	S11	E69	07	15.9		02	8	8	E	RAMY	7225	
10	AFS	1925E	0450D	S11	E34	07	13.4		03	9	9	E	PALE	7222	
10	AFS	1925E	0450D	S12	W29	07	8.6		02	9	9	E	PALE	7224	
10	DSF	1928U	1257U	S18	E46	07	14.3		15	0	0	E	HOLL	7226	
10	SSB	1930		206	W62	07	11.3			0	0	E	PALE		
10	SSB	1948		146	W03	07	14.3			0	0	E	PALE		
10	DSD	2023E	2236D	S24	E42	07	14.1		02	7	9	E	RAMY	7226	
10	DSD	2234E	0028D	S11	E08	07	11.5		02	9	9	E	HOLL	7220	
11	DSD	0358E	0925D	S15	E32	07	13.6		02	9	9	E	LEAR	7222	
11	BSL	0506E	0638D	N26	E90	07	18.2	1				C	ABST		
11	DSD	0545E	0925D	S11	E03	07	11.5		03	9	9	E	LEAR	7220	
11	AFS	0545E	0925D	S13	E10	07	12.0		03	9	9	E	LEAR	7220	
11	ASR	0612E	0925D	N11	W90	07	4.5			8	5	E	LEAR	7216	
11	ADF	0625E	1700D	S08	E08	07	11.9	1	05	9	9	E	SVTO	7220	
11	DSD	0625E	1700D	S10	E04	07	11.6		02	9	9	E	SVTO	7220	
11	DSD	0625E	1700D	S14	E13	07	12.2		03	9	9	E	SVTO	7220	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
11	SSB	1257		198 W64		07 20.3			0	0	E	HOLL		
11	AFS	1315E	0145D	S09 E17		07 12.8		02	9	9	E	HOLL 7222		
11	DSD	1315E	0145D	S11 E22		07 13.2		02	9	9	E	HOLL 7222		
11	DSD	1315E	0145D	S11 W01		07 11.5		02	9	9	E	HOLL 7220		
11	ASR	1700E	0145D	N14 W88		07 5.0			9	9	E	HOLL 7216		
11	ASR	1715E	0459D	N17 W90		07 4.9			9	9	E	PALE 7216		
11	DSD	1715E	0459D	S06 E60		07 16.2		03	9	9	E	PALE		
11	ADF	1715E	0459D	S06 W19		07 10.3		06	9	9	E	PALE 7219		
11	AFS	1715E	0459D	S12 E07		07 12.2		02	9	9	E	PALE 7220		
11	AFS	1715E	0459D	S13 E20		07 13.2		03	9	9	E	PALE 7222		
12	ASR	0058	0145D	S04 E90		07 18.8			9	9	E	HOLL		
12	DSD	0100E	0923D	S11 E14		07 13.1		05	8	9	E	LEAR 7222		
12	ASR	0240E	0923D	N13 W90		07 5.3			9	7	E	LEAR 7216		
12	DSD	0405E	0459D	S10 E10		07 12.9		03	9	9	E	PALE 7222		Flare Associated
12	DSD	0520E	0923D	S14 W08		07 11.6		03	9	9	E	LEAR 7220		
12	AFS	0521E	0923D	S11 E09		07 12.9		04	9	9	E	LEAR 7222		
12	AFS	0522E	0923D	S24 E22		07 13.9		02	7	7	E	LEAR 7226		
12	AFS	0523E	0923D	N25 E72		07 17.8		02	9	9	E	LEAR		
12	ADF	0524E	0923D	S15 E50		07 16.0	1	05	9	9	E	LEAR 7225		
12	AFS	0550E	1730D	S10 E09		07 12.9		03	9	9	E	SVTO 7222		
12	DSD	0550E	1730D	S10 E12		07 13.1		04	9	9	E	SVTO 7222		
12	ADF	0550E	1730D	S12 W04		07 11.9	1	04	9	9	E	SVTO 7220		
12	DSD	0550E	1730D	S14 W01		07 12.2		02	9	9	E	SVTO 7220		
12	DSF	0925U	2341U	S23 W49		07 8.6		09	0	0	E	LEAR		
12	ADF	1330E	2102D	S10 W10		07 11.8	1	05	8	7	E	RAMY 7220		
12	SSB	1444		141 W21		07 15.7			0	0	E	HOLL		
12	ASR	1614E	0140D	N17 W90		07 5.8			9	9	E	HOLL 7216		
12	AFS	1614E	0140D	S11 E03		07 12.9		03	9	9	E	HOLL 7222		
12	AFS	1723E	2102D	N24 E63		07 17.6		01	9	9	E	RAMY 7229		
12	ASR	1850E	0503D	N12 W90		07 6.0			9	9	E	PALE 7216		
12	DSD	1850E	0503D	S10 E08		07 13.4		02	9	9	E	PALE 7222		
12	AFS	1850E	0503D	S13 E03		07 13.0		03	9	9	E	PALE 7222		
12	DSD	1850E	0503D	S14 W13		07 11.8		08	9	9	E	PALE 7220		
12	DSD	1914E	0140D	S09 W13		07 11.8		03	9	9	E	HOLL 7220		
12	DSD	1945E	0140D	S14 W19		07 11.4		06	9	9	E	HOLL 7220		Flare Associated
13	ADF	0613E	1609D	S12 W19		07 11.8	1	07	9	9	E	SVTO 7220		
13	BSL	0624E	0700D	S15 E90		07 20.1	1				C	ABST		
13	ADF	1105E	1941D	S09 W19		07 12.0	1	04	9	9	E	RAMY 7220		
13	AFS	1136E	1235D	N22 E53		07 17.5		01	9	9	E	RAMY 7229		
13	SSB	1232		124 W16		07 15.3			0	0	E	RAMY		
13	AFS	1240E	0203D	S08 W07		07 13.0		03	7	7	E	HOLL 7222		
13	ADF	1240E	1831D	S07 W20		07 12.0	1	04	9	9	E	HOLL 7220		
13	DSD	1240E	2147D	S12 W03		07 13.3		02	9	9	E	HOLL 7222		
13	DSD	1408E	2121D	S12 W29		07 11.4		04	9	9	E	HOLL 7220		
13	AFS	1438E	1609D	N25 E51		07 17.6		02	9	9	E	SVTO 7229		
13	AFS	1508E	1609D	S23 E05		07 14.0		03	9	9	E	SVTO 7226		
13	AFS	1513E	1609D	S13 W03		07 13.4		02	9	9	E	SVTO 7222		
13	DSD	1615E	1803D	S08 W07		07 13.1		04	9	9	E	HOLL 7222		Flare Associated
13	AFS	1645E	2047D	S14 W25		07 11.8		03	9	9	E	PALE 7220		
13	DSD	1647E	2047D	S11 W10		07 12.9		04	9	9	E	PALE 7222		
13	AFS	1647E	2047D	S16 W07		07 13.2		03	9	9	E	PALE 7222		
13	ADF	1652E	2047D	N22 E45		07 17.2		05	9	9	E	PALE 7229		
13	AFS	1654E	2047D	S03 E23		07 15.4		03	9	9	E	PALE 7226		
13	AFS	1801E	2047D	S07 E30		07 16.0		02	6	7	E	PALE 7228		
13	SSB	1840		179 W75		07 21.0			0	0	E	HOLL		
13	BSL	1856E	1903	N20 W90		07 6.9			9	9	E	HOLL		
13	BSL	1857E	2047D	N20 W90		07 6.9			9	9	E	PALE		
13	ASR	1903E	1940D	N20 W90		07 6.9			9	9	E	HOLL		
13	DSD	2010	2105D	S06 W51		07 10.0		05	9	9	E	HOLL 7219		Flare Associated
13	BSL	2206	2241	N20 W90		07 7.0	1				C	VORO		
14	APR	0016	0130D	N08 E90		07 20.7	1				C	VORO		
14	AFS	0056E	0932D	S21 W03		07 13.8		02	9	9	E	LEAR 7226		
14	DSD	0057E	0319D	N28 E51		07 18.0		06	9	9	E	LEAR 7229		Flare Associated
14	ADF	0057E	0932D	N24 E47		07 17.7	1	05	9	9	E	LEAR 7229		
14	BSL	0415E	0700D	S01 E90		07 20.9	1				C	ABST		
14	SSB	0443		125 W26		07 16.1			0	0	E	SVTO		
14	ADF	0453E	1741D	S09 W30		07 11.9	1	11	9	9	E	SVTO 7220		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
14	AFS	0453E	1741D	S13	W19	07 12.8		04	9	9	E	SVTO	7222	
14	ADF	0816E	0830D	S04	E26	07 16.3	1				V	KHAR		
14	DSD	0835E	0858D	S06	W24	07 12.6	1				V	KHAR		
14	DSD	0850E	0858D	S07	W60	07 9.9	1				V	KHAR		
14	DSD	0927E	0955D	S07	W26	07 12.4	1				V	KHAR		
14	DSD	1018E	1105D	S07	W18	07 13.1	2				V	KHAR		
14	DSD	1039E	2026D	N22	E40	07 17.5		01	9	9	E	RAMY	7229	Flare Associated
14	ASR	1050E	2026D	N18	E90	07 21.3			9	9	E	RAMY		
14	ADF	1056E	2026D	N05	E45	07 17.8	1	11	9	9	E	RAMY	7227	
14	ADF	1111E	2026D	S20	W05	07 14.1	1	13	9	9	E	RAMY	7226	
14	DSD	1112E	2026D	S22	W09	07 13.8		01	9	9	E	RAMY	7226	
14	AFS	1125E	2026D	S13	W15	07 13.3		01	7	7	E	RAMY	7222	
14	AFS	1129E	2026D	S11	W35	07 11.8		01	9	9	E	RAMY	7220	
14	ADF	1130E	2026D	S14	W31	07 12.1	1	06	9	9	E	RAMY	7220	
14	DSD	1240E	2026D	N09	E37	07 17.3		03	9	9	E	RAMY	7227	
14	ADF	1303E	0203D	S19	W17	07 13.2	1	14	9	9	E	HOLL	7226	
14	SSB	1317		179	W85	07 21.9			0	0	E	HOLL		
14	DSD	1341E	1741D	S13	E67	07 19.6		05	9	9	E	SVTO		
14	DSD	1415E	2026D	S16	E67	07 19.7		02	9	9	E	RAMY		
14	DSD	1420E	2026D	S09	W27	07 12.6		02	9	9	E	RAMY	7222	
14	DSD	1528E	2026D	S10	W40	07 11.6		02	9	9	E	RAMY	7220	
14	DSF	1528U	1445U	S33	W08	07 14.0	2	16	0	0	E	RAMY		
14	AFS	1700E	2026D	S22	W12	07 13.8		02	8	9	E	RAMY	7226	
14	AFS	1715E	0016D	S09	W26	07 12.8		03	9	9	E	PALE	7222	
14	ADF	1715E	0016D	S11	W26	07 12.8		08	9	9	E	PALE	7222	
14	DSD	1717E	0016D	S09	W30	07 12.5		03	9	9	E	PALE	7220	
14	DSD	1850	2052	S11	W33	07 12.3		08	9	9	E	HOLL	7222	Flare Associated
14	AFS	2014E	2026D	N03	W50	07 11.1		01	8	8	E	RAMY		
14	DSF	2047U	1712U	S08	W33	07 12.4		12	0	0	E	PALE		
15	AFS	0011E	0935D	S24	W14	07 13.9		02	9	9	E	LEAR	7226	
15	DSD	0012E	0935D	N35	E25	07 17.0		02	9	9	E	LEAR	7229	
15	ADF	0013E	0935D	N27	E35	07 17.7	1	07	9	9	E	LEAR	7229	
15	DSF	0048U	1234U	S31	W12	07 14.1		14	0	0	E	HOLL		
15	ADF	0610E	1737D	S08	W65	07 10.4	1	03	9	9	E	SVTO	7219	
15	AFS	1034E	0000	N03	W57	07 11.2		01	9	9	E	RAMY		
15	AFS	1034E	0000	N17	E71	07 20.8		02	9	9	E	RAMY		
15	AFS	1045E	0000	S14	E52	07 19.4		02	9	9	E	RAMY	7230	
15	AFS	1055E	0000	S23	E29	07 17.7		02	9	9	E	RAMY	7229	
15	ADF	1108E	0000	N09	E22	07 17.1	1	09	9	9	E	RAMY	7227	
15	DSD	1257E	0019D	S11	W41	07 12.4		03	9	9	E	HOLL	7222	
15	AFS	1320E	0019D	S05	W71	07 10.2		02	8	8	E	HOLL	7219	
15	AFS	1320E	0019D	S13	E50	07 19.3		02	9	9	E	HOLL	7230	
15	DSD	1325E	0019D	S13	W53	07 11.6		03	9	9	E	HOLL	7220	
15	SSB	1326		143	W63	07 19.4			0	0	E	HOLL		
15	ADF	1710E	0446D	S13	W34	07 13.1		02	9	9	E	PALE	7222	
15	AFS	1717E	0446D	S24	W26	07 13.7		03	9	9	E	PALE	7226	
15	AFS	2048E	0446D	S12	E47	07 19.4		03	9	9	E	PALE	7230	
15	SSB	2142		101	W26	07 16.0			0	0	E	PALE		
16	AFS	0010E	0446D	S12	W35	07 13.4		03	9	9	E	PALE	7222	
16	ADF	0022E	0940D	S19	W24	07 14.2	1	07	9	9	E	LEAR	7226	
16	DSD	0023E	0446D	S11	W46	07 12.5		03	9	9	E	PALE	7220	
16	AFS	0520E	1800D	S11	W47	07 12.7		03	9	9	E	SVTO	7222	
16	DSD	0520E	1800D	S13	W44	07 12.9		04	9	9	E	SVTO	7222	
16	DSD	0520E	1800D	S14	W39	07 13.3		01	9	9	E	SVTO	7222	
16	ADF	0520E	1800D	S15	W42	07 13.0	1	03	9	9	E	SVTO	7222	
16	AFS	1115E	2126D	S02	W18	07 15.1		01	9	9	E	RAMY		
16	AFS	1115E	2234D	N07	W43	07 13.2		01	9	9	E	RAMY	7233	
16	AFS	1117E	2234D	N17	E69	07 21.7		01	9	9	E	RAMY	7232	
16	DSD	1138E	2128D	S27	W32	07 14.0		03	9	9	E	RAMY	7226	
16	AFS	1139E	2243D	S22	W36	07 13.7		02	9	9	E	RAMY	7226	
16	AFS	1228E	2234D	S10	W51	07 12.7		01	9	9	E	RAMY	7222	
16	DSD	1229E	2128D	S09	W56	07 12.3		03	9	9	E	RAMY	7222	
16	DSD	1300E	0154D	S11	W55	07 12.4		02	9	9	E	HOLL	7222	
16	AFS	1310E	0154D	S23	W39	07 13.5		01	9	9	E	HOLL	7226	
16	AFS	1320E	0154D	S13	E37	07 19.3		01	7	7	E	HOLL	7230	
16	SSB	1325		146	W79	07 20.8			0	0	E	HOLL		
16	DSF	1509U	1616U	S01	E01	07 16.7		09	0	0	E	HOLL	7225	
16	ADF	1635E	0154D	N09	W61	07 12.1	1	12	7	7	E	HOLL		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
16	DSF	1654U	1705U	N09	W61	07 12.1	3	12	0	0	E	HOLL	7231	Flare Associated
16	DSF	1737U	0652U	S39	E64	07 21.9		14	0	0	E	SVTO		
16	ADF	1951E	2234D	N12	E38	07 19.7	1	04	9	9	E	RAMY	7230	
16	AFS	1951E	2234D	N14	E34	07 19.4		02	8	8	E	RAMY	7230	
16	DSD	1951E	2234D	N18	E67	07 21.9		02	9	9	E	RAMY	7232	
16	SSB	2015		425	W01	07 15.0			0	0	E	RAMY		
16	AFS	2240E	0154D	N07	W51	07 13.1		02	9	9	E	HOLL	7233	
16	AFS	2245E	0318D	N07	W50	07 13.2		02	9	9	E	PALE	7233	
16	AFS	2245E	0318D	S23	W39	07 13.9		02	9	9	E	PALE	7222	
16	SSB	2254		130	W68	07 19.7			0	0	E	PALE		426 W04
16	DSD	2305E	0318D	N16	E62	07 21.7		02	9	9	E	PALE	7232	
16	ADF	2357E	0154D	N07	E10	07 17.7	2	09	9	9	E	HOLL	7227	Flare Associated
17	DSD	0028E	0941D	S06	W58	07 12.7		02	9	9	E	LEAR	7222	
17	DSD	0030E	0941D	S14	W59	07 12.6		02	7	8	E	LEAR	7222	
17	DSD	0032E	0941D	S23	W50	07 13.2		02	8	8	E	LEAR	7226	
17	DSD	0034E	0941D	S05	W10	07 16.3		02	9	9	E	LEAR	2225	
17	AFS	0036E	0941D	N08	W52	07 13.1		02	8	7	E	LEAR	7233	
17	ADF	0038E	0941D	S13	W48	07 13.4	1	08	8	8	E	LEAR	7222	
17	ADF	0040E	0941D	N20	E60	07 21.6	1	05	7	6	E	LEAR	7232	
17	DSD	0538E	1043D	S11	W52	07 13.3		02	9	9	E	SVTO	7222	
17	AFS	0538E	1228D	S11	W60	07 12.7		04	9	9	E	SVTO	7222	
17	ADF	0538E	1228D	S14	W61	07 12.6	1	09	9	9	E	SVTO	7222	
17	AFS	0538E	1228D	S15	W57	07 12.9		04	9	9	E	SVTO	7222	
17	DSD	0606E	1034D	S18	W74	07 11.6		02	9	9	E	SVTO	7220	
17	DSD	1240E	1515D	S11	W77	07 11.7		02	9	9	E	RAMY	7220	
17	AFS	1240E	1811D	S13	W75	07 11.9		02	9	9	E	RAMY	7220	
17	DSD	1245E	1811D	S12	W69	07 12.3		05	9	9	E	RAMY	7222	
17	AFS	1315E	1811D	N09	W59	07 13.1		02	9	9	E	RAMY	7233	
17	AFS	1328E	1811D	S24	W46	07 14.0		02	6	6	E	RAMY	7226	
17	AFS	1335E	1811D	S14	W31	07 15.2		02	9	9	E	RAMY	7230	
17	AFS	1339E	1811D	N23	E01	07 17.6		03	9	9	E	RAMY	7229	
17	ASR	1515E	1811D	S14	W90	07 10.8		07	6	9	E	RAMY	7220	
17	ASR	1522E	1531	S14	W81	07 11.5		11	9	9	E	HOLL	7220	Flare Associated
17	BSL	1531	1620	S14	W81	07 11.5		23	9	9	E	HOLL	7220	Flare Associated
17	BSL	1533	1612D	S14	W90	07 10.8		15	9	9	E	RAMY	7220	
17	DSD	1627E	2133D	S09	W61	07 13.1		03	9	9	E	HOLL	7222	
17	SSB	1629		112	W60	07 18.7			0	0	E	HOLL		
17	ADF	1630E	2133D	N19	E00	07 17.7	1	07	8	7	E	HOLL	7229	
17	AFS	1635E	1942D	N07	W61	07 13.1		02	9	9	E	HOLL	7233	
17	DSD	1635E	2133D	N07	W63	07 13.0		02	9	9	E	HOLL	7233	
17	ASR	1716E	2133D	S11	W86	07 11.2		04	8	9	E	HOLL	7220	
17	DSD	1801E	0211D	S08	W61	07 13.2		02	9	9	E	PALE	7222	
17	ASR	1801E	0211D	S12	W90	07 11.0		04	9	9	E	PALE	7220	
17	ADF	1801E	0211D	S16	W57	07 13.4	1	06	8	8	E	PALE	7222	
17	ADF	1801E	0211D	S19	W54	07 13.6	1	04	9	9	E	PALE	7226	
17	ASR	1801E	1912D	S12	W90	07 11.0		04	9	9	E	PALE	7222	
17	DSD	1847	1940D	S11	W63	07 13.0		11	9	9	E	HOLL	7222	Flare Associated
17	AFS	1905E	2133D	N23	W01	07 17.7		02	7	7	E	HOLL	7229	
17	BSL	2129E	2133D	S13	W90	07 11.1		17	7	9	E	HOLL	7220	Flare Associated
18	ASR	0005E	0938D	S16	W90	07 11.2		05	9	9	E	LEAR	7220	
18	DSD	0006E	0400D	N18	E42	07 21.2		10	9	9	E	LEAR	7232	
18	ADF	0007E	0938D	N14	W09	07 17.3	1	12	9	9	E	LEAR	7227	
18	BSL	0136	0143D	S15	W90	07 11.2	1				C	VORO		
18	BSL	0402E	0519D	S12	W90	07 11.4	1				C	ABST		
18	DSF	0439U	1308U	S26	E12	07 19.1	2	08	0	0	E	SVTO		
18	ASR	0443E	0753	S16	W90	07 11.4		14	9	9	E	SVTO	7220	
18	SSB	0455		426	W21	07 16.2			0	0	E	SVTO		
18	EPL	0645E	0849D	S12	W90	07 11.5	2				V	BUCA		
18	ASR	0645E	0713D	N10	E90	07 25.0		05	9	9	E	SVTO		
18	BSL	0753	0835D	S16	W90	07 11.5		20	9	9	E	SVTO	7220	
18	BSL	0755E	0845D	S16	W90	07 11.5		20	9	9	E	LEAR	7220	
18	ASR	0835E	1331	S17	W90	07 11.5		14	9	9	E	SVTO	7220	
18	DSD	1120E	1216	N22	W08	07 17.8		03	9	9	E	SVTO	7229	
18	DSD	1149	1302D	S26	W64	07 13.5		02	9	9	E	SVTO	7226	Flare Associated
18	SSB	1300		100	W59	07 18.5			0	0	E	HOLL		
18	ASR	1341	1357D	S12	W90	07 11.8		06	9	9	E	SVTO		
18	ADF	1430E	1526D	N25	W10	07 17.8	1	07	8	7	E	SVTO	7229	
18	ASR	1438E	1715D	S12	W90	07 11.8		09	9	9	E	RAMY		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
18	DSD	1439	1505	N22	W19	07 17.1		02	9	9	E	SVTO	7229	
18	DSD	1444E	1715D	N24	W08	07 18.0		02	9	9	E	RAMY	7229	
18	AFS	1450E	1715D	N16	E41	07 21.7		02	8	8	E	RAMY	7232	
18	ADF	1530E	1715D	N20	W17	07 17.3	1	04	9	9	E	RAMY	7229	
18	AFS	1618E	1755D	N24	W14	07 17.6		03	9	9	E	SVTO	7229	
18	AFS	1922E	0454D	N10	W25	07 16.9		02	9	9	E	PALE	7229	
18	DSD	1922E	0454D	N14	E37	07 21.6		02	9	9	E	PALE	7232	
18	ADF	1922E	0454D	N17	E43	07 22.1	1	04	8	8	E	PALE	7232	
18	ADF	1922E	0454D	N19	W17	07 17.5	1	04	8	8	E	PALE	7229	
18	ASR	1922E	0454D	S13	W90	07 12.0		04	9	9	E	PALE	7222	
18	DSD	1922E	0454D	S23	W64	07 13.9		03	9	9	E	PALE	7226	
18	ADF	1922E	0454D	S24	W63	07 13.9	1	03	9	9	E	PALE	7226	
18	SSB	1938		421	W34	07 17.1			0	0	E	PALE		
18	ADF	2002E	0454D	N07	W22	07 17.2	1	05	9	9	E	PALE	7227	
18	DSD	2008E	0454D	S14	E08	07 19.4		03	9	9	E	PALE	7230	
18	DSD	2042E	2101	N18	E44	07 22.2		04	9	9	E	HOLL	7232	Flare Associated
18	AFS	2148E	0135D	N23	W17	07 18.6		02	9	9	E	HOLL	7227	
18	APR	2251	0151D	S23	W90	07 12.0	1				C	VORO		
18	APR	2300	0151D	N26	W90	07 12.0	1				C	VORO		
19	ASR	0020E		S10	W90	07 12.2		03	9	9	E	LEAR	7222	
19	ADF	0021E	0936D	N06	W18	07 17.7	1	11	9	9	E	LEAR	7227	
19	ADF	0022E	0936D	S13	E04	07 19.3	1	03	9	9	E	LEAR	7230	
19	ADF	0112	0151D	N29	W42	07 15.7	1				C	VORO		
19	APR	0125	0151D	S05	W90	07 12.3	1				C	VORO		
19	DSF	0129U	1225U	N43	E17	07 20.5		13	0	0	E	HOLL		
19	DSD	0439E	0710D	N22	W20	07 17.6		02	9	9	E	SVTO	7229	Flare Associated
19	AFS	0439E	1745D	N24	W19	07 17.7		02	9	9	E	SVTO	7229	
19	ADF	0441E	0648D	N16	E33	07 21.7	1	04	9	9	E	SVTO	7232	
19	DSF	0451U	1231U	S32	E10	07 20.0	2	05	0	0	E	SVTO		
19	ASR	0454E	1745D	S14	W90	07 12.4		02	9	9	E	SVTO	7222	
19	ADF	0508E	1745D	N04	W21	07 17.6	1	09	9	9	E	SVTO	7227	
19	AFS	0513E	0936D	N22	W20	07 17.7		02	9	9	E	LEAR	7229	
19	AFS	0514E	0936D	N15	E33	07 21.7		01	9	9	E	LEAR	7232	
19	DSD	0514E	0706D	S15	E04	07 19.5		02	9	9	E	SVTO	7230	
19	BSD	0541	0617	S25	W74	07 13.5		09	9	9	E	LEAR	7226	Flare Associated
19	BSD	0543E	0648D	S27	W80	07 13.0		05	9	9	E	SVTO	7226	
19	DSF	1034U	1030U	N30	W37	07 16.5	2	28	0	0	E	RAMY		
19	AFS	1056E	1654D	S16	E00	07 19.4		01	9	9	E	RAMY	7230	
19	AFS	1059E	1654D	N16	E30	07 21.7		01	9	9	E	RAMY	7232	
19	AFS	1105E	2237D	S17	W16	07 18.2		01	6	6	E	RAMY		
19	ADF	1108E	2237D	N05	W24	07 17.7	1	09	9	9	E	RAMY	7227	
19	ADF	1250E	0110D	N01	W33	07 17.1	1	12	9	9	E	HOLL	7227	
19	AFS	1305E	0135D	N06	W72	07 14.1		02	7	8	E	HOLL	7233	
19	DSD	1305E	0135D	N17	E37	07 22.3		02	9	9	E	HOLL	7232	
19	DSD	1305E	0135D	S09	W35	07 16.9		01	9	9	E	HOLL	7225	
19	ASR	1305E	0135D	S14	W89	07 12.8		12	9	9	E	HOLL	7220	
19	DSD	1429E	1439	N21	W22	07 17.9		02	9	9	E	SVTO	7229	
19	EPL	1602	1612	S07	W90	07 12.9		16	9	9	E	SVTO	7222	
19	ASR	1612	1636	S07	W90	07 12.9		14	9	9	E	SVTO	7222	
19	BSL	1624	1720	S06	W90	07 12.9		16	9	9	E	HOLL	7222	
19	BSL	1631E	1716D	S06	W90	07 12.9		16	9	9	E	RAMY	7222	
19	BSL	1636	1703	S07	W90	07 12.9		17	9	9	E	SVTO	7222	
19	BSL	1640E	2008D	N07	W90	07 12.9		15	9	9	E	PALE	7222	
19	ADF	1906E	0321D	N24	W26	07 17.8		02	9	9	E	PALE	7229	
19	EPL	1909	2100D	S05	W90	07 13.1	3	15	9	9	E	HOLL	7222	
19	BSL	1915E	2131D	S06	W90	07 13.1		15	9	9	E	RAMY	7222	
19	EPL	1918E	2008	N06	W90	07 13.1		16	9	9	E	PALE	7222	
19	DSF	2000U	1720U	N19	W66	07 14.8		26	0	0	E	PALE		
19	ASR	2008E	0321D	N06	W90	07 13.1		09	9	9	E	PALE	7222	
19	DSD	2042E	2101	N18	E44	07 23.2		04	9	9	E	HOLL	7232	Flare Associated
19	APR	2357E	0150	N01	W90	07 13.3	1	07	9	9	E	LEAR	7222	
19	ASR	2357E	0937D	S09	W90	07 13.2		04	9	9	E	LEAR	7222	
19	ASR	2358E	0937D	S21	W90	07 13.1		02	9	9	E	LEAR	7226	
19	ASR	2359E	0937D	N08	E90	07 26.7		03	9	9	E	LEAR	7233	
19	ADF	2359E	0937D	N08	W31	07 17.7	1	15	9	9	E	LEAR	7227	
20	DSF	0010U	1245U	N30	W44	07 16.5		13	0	0	E	HOLL		
20	DSF	0010U	1245U	N41	E28	07 22.3		08	0	0	E	HOLL		
20	DSD	0040E	0110D	S10	W57	07 15.7		03	9	9	E	HOLL	7225	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
20	EPL	0150	0211	N02	W90	07 13.3		19	9	9	E	LEAR	7222	
20	AFS	0150E	0937D	S02	W18	07 18.7		02	9	9	E	LEAR		
20	APR	0211	0622D	N01	W90	07 13.4	1	08	9	9	E	LEAR	7222	
20	ASR	0415E	1711D	S10	W90	07 13.4		04	9	9	E	SVTO	7222	
20	ASR	0451E	1334D	S27	W90	07 13.2		05	9	9	E	SVTO	7226	
20	DSD	0452E	0521D	N19	E34	07 22.8		02	9	9	E	SVTO		
20	AFS	0455E	0937D	N21	E33	07 22.7		02	9	9	E	LEAR		
20	ADF	0508E	1736D	N03	W33	07 17.7	1	12	9	9	E	SVTO	7227	
20	DSF	0900U	2330U	N40	E24	07 22.3		08	0	0	E	LEAR		
20	AFS	1054E	2223D	N18	E32	07 22.9		01	9	9	E	RAMY	7236	
20	AFS	1055E	1514D	S23	E39	07 23.5		01	9	9	E	RAMY		
20	AFS	1107E	2223D	S05	W22	07 18.8		01	9	9	E	RAMY	7235	
20	ADF	1108E	2223D	N04	W35	07 17.8	1	16	9	9	E	RAMY	7227	
20	AFS	1340E	0150D	S17	W31	07 18.2		01	9	9	E	HOLL	7234	
20	SSB	1518		430	W57	07 18.0			0	0	E	HOLL		
20	ASR	1550E	0150D	S23	W88	07 13.9		01	9	9	E	HOLL	7226	
20	AFS	1552E	0150D	N19	E29	07 22.9		02	9	9	E	HOLL		
20	ASR	1629E	1639	S07	W90	07 13.9		13	9	9	E	SVTO	7222	Flare Associated
20	AFS	1640E	0344D	S18	W33	07 18.2		02	9	9	E	PALE	7234	
20	AFS	1640E	2030D	N18	E11	07 21.5		03	9	9	E	PALE	7232	
20	AFS	1640E	2030D	N23	W39	07 17.7		02	9	9	E	PALE	7229	
20	AFS	1645E	0344D	N18	E27	07 22.7		02	9	9	E	PALE	7236	
20	DSD	1645E	0344D	N19	E29	07 22.9		02	9	9	E	PALE	7236	
20	DSD	1652E	0344D	N23	W37	07 17.8		02	9	9	E	PALE	7229	
20	ASR	1652E	2104D	S25	W90	07 13.7		04	9	9	E	PALE	7226	
20	SSB	1718		430	W58	07 18.1			0	0	E	PALE		
20	SSB	1728		429	W57	07 18.2			0	0	E	RAMY		
20	ADF	1740E	0150D	N15	W51	07 16.9	1	13	9	9	E	HOLL		
20	AFS	2030E	0344D	S05	W27	07 18.8		02	9	9	E	PALE	7235	
21	DSD	0104E	0206D	S20	W41	07 17.9		03	9	9	E	PALE	7234	
21	DSD	0550E	1459D	S19	W42	07 18.0		03	9	9	E	SVTO	7234	Flare Associated
21	DSD	0550E	1459D	S20	W42	07 18.0		03	9	9	E	SVTO	7234	Flare Associated
21	AFS	0550E	1725D	S20	W40	07 18.2		03	9	9	E	SVTO	7234	Flare Associated
21	AFS	0613E	1725D	N18	E20	07 22.8		03	9	9	E	SVTO	7236	
21	AFS	0623E	1725D	N21	W47	07 17.7		02	9	9	E	SVTO	7229	
21	AFS	0631E	1725D	S06	W34	07 18.7		02	9	9	E	SVTO	7235	
21	ADF	0653E	1725D	S16	W26	07 19.3	1	03	9	9	E	SVTO	7230	
21	AFS	1034E	0000	N18	E15	07 22.6		02	9	9	E	RAMY	7236	
21	AFS	1035E	1744D	N24	W48	07 17.7		02	9	9	E	RAMY	7229	
21	AFS	1039E	1744D	S15	W42	07 18.3		02	9	9	E	RAMY	7234	
21	DSD	1106E	1426D	S16	W26	07 19.5		04	9	9	E	SVTO	7230	Flare Associated
21	AFS	1107E	1744D	S02	W35	07 18.8		01	8	9	E	RAMY	7235	
21	DSD	1118E	1622D	S13	W30	07 19.2		03	9	9	E	RAMY	7230	
21	DSD	1126E	1622D	S12	W69	07 16.3		01	9	9	E	RAMY	7225	
21	AFS	1130E	1744D	N13	W60	07 16.9		01	6	7	E	RAMY	7227	
21	SSB	1137		429	W67	07 18.9			0	0	E	RAMY		
21	DSD	1229E	1725D	N17	W18	07 20.1		02	9	9	E	SVTO	7236	
21	AFS	1304E	0021D	S17	W45	07 18.1		02	9	9	E	HOLL	7234	
21	AFS	1305E	0021D	S04	W37	07 18.8		01	9	9	E	HOLL	7235	
21	SSB	1446		431	W70	07 18.8			0	0	E	HOLL		
21	DSD	1525E	0021D	N17	E16	07 22.8		03	9	9	E	HOLL	7236	
21	BSD	1540E	1700D	S10	W77	07 15.9		07	9	9	E	HOLL	7225	
21	AFS	1635E	0508D	S04	W40	07 18.7		01	9	8	E	PALE	7235	
21	AFS	1635E	0508D	S17	W45	07 18.3		02	9	9	E	PALE	7234	
21	DSD	1635E	0508D	S18	W47	07 18.1		02	9	9	E	PALE	7234	
21	AFS	1640E	0508D	N19	E15	07 22.8		02	9	9	E	PALE	7236	
21	SSB	1721		374	W16	07 16.1			0	0	E	PALE		429 W71
21	DSD	2050E	0508D	N18	E12	07 22.8		02	9	9	E	PALE	7236	
21	DSD	2247E	0508D	N19	W60	07 17.4		02	9	9	E	PALE	7229	
21	DSD	2247E	0508D	N19	W60	07 17.4		02	9	9	E	PALE	7229	
22	AFS	0045E	0938D	N19	E11	07 22.9		02	9	9	E	LEAR	7236	
22	DSD	0050E	0938D	S11	W40	07 19.0		02	9	9	E	LEAR	7230	
22	AFS	0055E	0938D	S16	W51	07 18.2		03	9	9	E	LEAR	7234	
22	DSD	0140E	0508D	S15	W34	07 19.5		04	9	9	E	PALE	7230	
22	BSL	0426E	0714D	N20	W90	07 15.3	1				C	ABST		
22	EPL	0523E	1505D	N20	W90	07 15.3		16	8	9	E	SVTO	7229	
22	ASR	0542E	0715D	S13	W89	07 15.5		03	4	3	E	SVTO	7225	
22	DSD	0607E	1722D	S19	W58	07 17.8		04	9	9	E	SVTO	7234	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
22	ADF	0617E	1722D	N17	E07	07 22.8	1	03	9	9	E	SVTO	7236	
22	AFS	0617E	1722D	N18	E07	07 22.8		03	9	9	E	SVTO	7236	
22	ADF	0632E	1722D	N24	W58	07 17.8	1	03	9	9	E	SVTO	7229	
22	AFS	0639E	1722D	S06	W47	07 18.7		03	9	9	E	SVTO	7235	
22	DSD	0739E	1722D	S14	W46	07 18.8		01	9	9	E	SVTO		
22	ADF	0900E	0912D	S10	W38	07 19.5	1				V	KHAR		
22	ADF	0944E	0957D	N10	E68	07 27.5	1				V	KHAR		
22	ADF	1011E	1722D	N12	E68	07 27.5	1	10	9	9	E	SVTO		
22	AFS	1056E	1846D	S16	W56	07 18.2		02	9	9	E	RAMY	7234	
22	ASR	1107E	1750D	S02	E90	07 29.2		02	8	8	E	RAMY		
22	AFS	1109E	1846D	N18	E05	07 22.8		02	9	9	E	RAMY	7236	
22	ASR	1115E	1750D	N23	W90	07 15.5		11	9	9	E	RAMY	7229	
22	AFS	1122E	1846D	S03	W49	07 18.8		02	9	9	E	RAMY	7235	
22	AFS	1131E	1846D	N24	W60	07 17.8		01	9	8	E	RAMY	7229	
22	SSB	1255		405	W57	07 22.1			0	0	E	HOLL		
22	AFS	1320E	0102D	N19	E03	07 22.8		02	9	9	E	HOLL	7236	
22	DSD	1320E	0102D	N19	W70	07 17.2		02	9	9	E	HOLL	7229	
22	AFS	1320E	0102D	S17	W60	07 18.0		02	9	9	E	HOLL	7234	
22	DSD	1320E	0102D	S17	W63	07 17.8		02	9	9	E	HOLL	7234	
22	EPL	1320E	1615D	N22	W90	07 15.6		12	9	9	E	HOLL		
22	ADF	1320E	1616D	N19	W70	07 17.2	1	08	9	9	E	HOLL	7229	
22	AFS	1321E	1846D	N06	W30	07 20.3		01	6	8	E	RAMY		
22	AFS	1345E	0102D	N06	W31	07 20.2		02	9	9	E	HOLL		
22	DSD	1505E	1722D	N17	W68	07 17.5		08	9	9	E	SVTO	7229	Flare Associated
22	APR	1505E	1722D	N20	W90	07 15.7	1	12	8	9	E	SVTO	7229	
22	AFS	1524E	1722D	N04	W32	07 20.2		03	9	9	E	SVTO		
22	ASR	1540E	0102D	S12	W90	07 15.9		01	9	9	E	HOLL	7225	
22	AFS	1720E	0343D	N05	W33	07 20.2		02	9	9	E	PALE	7237	
22	SSB	1722		373	W27	07 17.0			0	0	E	PALE		411 W65
22	ADF	1725E	1846D	S02	W58	07 18.4	1	02	9	9	E	RAMY	7235	
22	DSD	1755E	1840D	N26	W64	07 17.8		05	9	9	E	RAMY	7229	
22	DSD	1758E	0343D	N20	W66	07 17.7		06	9	9	E	PALE	7229	
22	DSD	1758E	0343D	S19	W63	07 17.9		03	9	9	E	PALE	7234	
22	AFS	2008E	0343D	N18	E00	07 22.8		02	9	9	E	PALE	7236	
23	APR	0053E	0200D	N12	E90	07 29.8	1				C	VORO		
23	APR	0053E	0200D	N22	W90	07 16.1	1				C	VORO		
23	AFS	0113E	0938D	N18	W04	07 22.7		02	9	9	E	LEAR	7236	
23	DSD	0115E	0938D	N12	W19	07 21.6		02	9	9	E	LEAR	7232	
23	AFS	0117E	0938D	S18	W69	07 17.8		02	9	9	E	LEAR	7234	
23	AFS	0121E	0938D	S05	W60	07 18.6		04	9	9	E	LEAR	7235	
23	AFS	0122E	0938D	N04	W38	07 20.2		03	9	9	E	LEAR	7237	
23	AFS	0123E	0938D	N02	W38	07 20.2		03	9	9	E	LEAR	7237	
23	APR	0542E	0551	N21	W90	07 16.3	1	13	9	8	E	SVTO	7229	
23	EPL	0551E	0847D	N21	W90	07 16.3		15	9	9	E	SVTO	7229	
23	EPL	0602E	0938D	N21	W90	07 16.3		17	9	9	E	LEAR	7229	
23	AFS	0619E	1730D	N18	W07	07 22.7		02	9	9	E	SVTO	7236	
23	ADF	0624E	1730D	N22	W72	07 17.7	1	03	9	9	E	SVTO	7229	
23	ADF	0631E	1730D	S18	W69	07 18.0	1	04	9	9	E	SVTO	7234	
23	AFS	0631E	1730D	S20	W71	07 17.8		02	9	9	E	SVTO	7234	
23	SSB	0639		437	W04	07 20.5			0	0	E	SVTO		
23	ADF	0710E	1730D	S18	W71	07 17.9	1	05	9	9	E	SVTO	7234	
23	DSD	0710E	1730D	S22	W70	07 17.9		04	9	9	E	SVTO	7234	
23	AFS	0722E	1730D	N03	W41	07 20.2		02	9	9	E	SVTO	7237	
23	ADF	0722E	1730D	N20	W21	07 21.7	1	04	9	9	E	SVTO	7232	
23	ADF	0742E	1730D	N11	E54	07 27.4	1	07	9	9	E	SVTO		
23	APR	0950E	1406D	N20	W87	07 16.7	1	14	7	6	E	SVTO	7229	
23	AFS	1150E	2019D	N19	W08	07 22.9		02	9	9	E	RAMY	7236	
23	AFS	1225E	2019D	N06	W43	07 20.3		02	8	8	E	RAMY	7237	
23	SSB	1251		375	W40	07 17.4			0	0	E	HOLL		
23	DSD	1345E	2019D	S16	W73	07 18.0		04	9	9	E	RAMY	7234	
23	APR	1506E	1730D	N14	W90	07 16.8	1	04	9	9	E	SVTO	7229	
23	AFS	1622E	0130D	N05	W47	07 20.2		02	7	6	E	HOLL	7237	
23	APR	1622E	0130D	N16	W90	07 16.8	1	03	9	9	E	HOLL	7227	
23	DSD	1622E	0130D	N19	W13	07 22.7		01	9	9	E	HOLL	7236	
23	DSD	1622E	0130D	S05	W69	07 18.5		02	9	9	E	HOLL	7235	
23	DSD	1622E	0130D	S17	W77	07 17.8		02	9	9	E	HOLL	7234	
23	ADF	1721E	2019D	S02	W69	07 18.6	1	05	9	9	E	RAMY	7235	
23	DSD	1721E	2019D	S04	W70	07 18.5		02	9	9	E	RAMY	7235	
23	AFS	1842E	2130D	N18	W13	07 22.8		02	9	9	E	PALE	7236	

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ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
23	ADF	2221	0122D	N04	E37	07 26.7	1				C	VORO		
23	APR	2245	0122D	N20	W20	07 22.4	1				C	VORO		
23	APR	2326	0122D	N10	E20	07 25.5	1				C	VORO		
23	APR	2345	0122D	S28	W90	07 16.9	1				C	VORO		
24	AFS	0516E	0940D	N18	W19	07 22.8		02	9	9	E	LEAR	7236	
24	AFS	0750E	1728D	N02	W55	07 20.2		02	9	9	E	SVTO	7237	
24	ADF	0750E	1728D	N02	W56	07 20.1	1	04	9	9	E	SVTO	7237	
24	APR	0750E	1728D	N16	W90	07 17.5	1	02	5	7	E	SVTO	7229	
24	AFS	0750E	1728D	N18	W20	07 22.8		03	9	9	E	SVTO	7236	
24	APR	0750E	1728D	N90	W36	07 20.9	1	04	6	7	E	SVTO		
24	DSD	0750E	1728D	S14	W73	07 18.8		01	9	9	E	SVTO	7230	
24	ASR	0750E	1728D	S23	W90	07 17.4		01	8	9	E	SVTO	7234	
24	ASR	0845E	1728D	N18	W90	07 17.5		04	8	8	E	SVTO	7229	
24	DSD	0935	1728D	S14	W74	07 18.8		11	9	9	E	SVTO	7230	
24	ASR	1005E	1728D	N12	W90	07 17.6		09	9	9	E	SVTO	7229	
24	BSD	1033E	1728D	S20	E82	07 30.7		03	9	9	E	SVTO		
24	EPL	1054E	1728D	S29	W90	07 17.4		17	7	7	E	SVTO		
24	EPL	1214E	1759D	S23	W90	07 17.6	3	28	7	6	E	RAMY		
24	AFS	1220E	1759D	N19	W22	07 22.8		01	7	7	E	RAMY	7236	
24	AFS	1239E	1759D	N05	W58	07 20.2		01	7	7	E	RAMY	7237	
24	ASR	1242E	1759D	N20	W90	07 17.6		03	9	9	E	RAMY	7229	
24	AFS	1245E	1728D	S19	E79	07 30.6		02	7	8	E	SVTO		
24	EPL	1318E	0046D	S23	W90	07 17.6	3	25	7	7	E	HOLL		
24	ASR	1328E	0046D	S16	W90	07 17.7		03	9	9	E	HOLL	7234	
24	ADF	1331E	0046D	N19	W21	07 23.0	1	06	7	8	E	HOLL	7236	
24	AFS	1332E	0046D	N19	W23	07 22.8		02	7	7	E	HOLL	7236	
24	CAP	1342E	0046D	N19	W90	07 17.7		02	9	9	E	HOLL	7229	
24	ASR	1346E	1759D	S16	W83	07 18.3		03	9	9	E	RAMY	7234	
24	DSD	1346E	1759D	S20	E75	07 30.3		03	9	9	E	RAMY		
24	AFS	1355E	1759D	S03	W65	07 19.7		01	9	9	E	RAMY	7235	
24	AFS	1355E	1759D	S14	W70	07 19.3		02	7	7	E	RAMY	7230	
24	SSB	1410		S28	W07	07 22.5			0	0	E	RAMY		381 W60
24	DSD	1449	1506	N17	W29	07 22.4		05	9	9	E	HOLL	7236	
24	ADF	1819E	0455D	N02	W61	07 20.2	1	03	8	8	E	PALE	7237	
24	ADF	1819E	0455D	N13	W23	07 23.0	1	05	9	9	E	PALE	7236	
24	DSD	1819E	0455D	N17	W43	07 21.5		02	9	9	E	PALE	7232	
24	AFS	1819E	0455D	N20	W30	07 22.5		03	9	9	E	PALE	7236	
24	SSB	1927		S28	W10	07 22.7			0	0	E	PALE		340 W22 391 W73
24	AFS	2105E	0455D	N11	E25	07 26.7		02	8	8	E	PALE		
24	ADF	2105E	0455D	N12	E38	07 27.7	1	12	9	9	E	PALE		
24	ASR	2110E	0250D	N26	W90	07 17.9		02	9	9	E	PALE	7229	
24	ASR	2323E	0455D	S15	W90	07 18.2		02	9	9	E	PALE	7234	
25	APR	0015	0111D	S45	E90	08 1.5	1				C	VORO		
25	AFS	0025E	0604D	N16	W38	07 22.1		02	9	9	E	LEAR	7236	
25	ASR	0026E	0325D	S17	W90	07 18.2		02	9	9	E	LEAR	7230	
25	DSF	0211U	2315U	N00	E19	07 26.5		15	0	0	E	LEAR		
25	AFS	0545E	0947D	N16	W43	07 22.0		02	9	9	E	LEAR	7232	
25	AFS	0552E	1700D	N14	W43	07 22.0		02	9	9	E	SVTO	7232	
25	AFS	0605E	1700D	N03	W69	07 20.1		02	7	8	E	SVTO	7237	
25	AFS	0636E	0947D	S12	W12	07 24.4		02	9	9	E	LEAR		
25	AFS	0846E	1700D	S19	E67	07 30.5		03	9	9	E	SVTO	7238	
25	AFS	0854E	1700D	S13	W23	07 23.6		02	9	9	E	SVTO		
25	AFS	1108E	2210D	S20	E64	07 30.3		01	9	9	E	RAMY	7238	
25	AFS	1112E	2210D	S12	W14	07 24.4		01	9	9	E	RAMY	7239	
25	AFS	1119E	2210D	N19	W34	07 22.9		01	9	9	E	RAMY	7236	
25	AFS	1120E	2210D	N16	W45	07 22.0		01	9	9	E	RAMY	7232	
25	ASR	1155	1220D	N16	E90	08 1.3		13	9	9	E	RAMY		
25	BSL	1205E	1214	N15	E90	08 1.3		21	9	9	E	SVTO		
25	SSB	1212		S49	W39	07 21.5			0	0	E	RAMY		381 W71
25	ASR	1228E	1700D	N16	E90	08 1.3		06	9	9	E	SVTO		
25	AFS	1233E	2210D	N06	W71	07 20.2		01	9	9	E	RAMY	7237	
25	AFS	1233E	2210D	S06	E54	07 29.6		01	9	9	E	RAMY		
25	ASR	1320E	0147D	N15	E90	08 1.4		07	9	9	E	HOLL		
25	DSD	1330E	0147D	N16	W48	07 21.9		01	9	9	E	HOLL	7232	
25	DSF	1404U	1340U	N30	E11	07 26.4		12	0	0	E	HOLL		
25	ASR	1405E	2210D	N15	E90	08 1.4		05	9	9	E	RAMY		
25	AFS	1412E	0147D	S12	W16	07 24.4		01	9	9	E	HOLL		
25	DSD	1418E	2210D	N16	W49	07 21.9		02	9	9	E	RAMY	7232	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
25	DSF	1700U	0711U	N01	E17	07 27.0	2	14	0	0	E	SVTO		
25	DSF	1700U	0711U	N42	W35	07 22.8	2	04	0	0	E	SVTO		
25	AFS	1735E	0147D	N18	W39	07 22.8		01	9	9	E	HOLL	7236	
25	DSD	1745	2210D	N17	W40	07 22.7		05	9	9	E	HOLL	7236	Flare Associated
25	DSD	1755E	0445D	S19	E64	07 30.6		06	9	9	E	PALE	7238	
25	ADF	1755E	2205D	S17	E62	07 30.4	1	05	9	9	E	PALE	7238	
25	DSD	1757E	2210D	N18	W36	07 23.0		04	9	9	E	RAMY	7236	Flare Associated
25	DSD	1805E	2353D	N17	W38	07 22.9		02	8	8	E	PALE	7236	
25	AFS	1805E	2353D	N20	W39	07 22.8		02	8	8	E	PALE	7236	
25	ASR	1820E	0445D	N12	E90	08 1.5		05	9	9	E	PALE		
25	ASR	1821E	2210D	N12	E90	08 1.5		03	9	9	E	RAMY		
25	ADF	1835E	2350D	N09	E17	07 27.0	1	07	7	8	E	PALE		
25	SSB	1837		347	W41	07 21.9			0	0	E	PALE		360 W54
25	BSD	2105E	0445D	N11	E86	08 1.3		07	9	9	E	PALE		
25	DSD	2127E	0445D	N15	W51	07 22.0		02	9	9	E	PALE	7232	
25	CAP	2255E	0445D	N21	E90	08 1.8		01	9	9	E	PALE		
25	DSD	2353E	0940D	S19	E53	07 30.0		03	9	9	E	LEAR	7238	
25	AFS	2354E	0940D	N16	W52	07 22.0		03	9	9	E	LEAR	7232	
25	AFS	2355E	0940D	N15	W51	07 22.1		02	9	9	E	LEAR	7232	
25	AFS	2355E	0445D	N15	W52	07 22.0		02	9	9	E	PALE	7232	
25	AFS	2356E	0940D	N03	E11	07 26.8		01	9	9	E	LEAR		
25	ASR	2357E	0940D	N11	E90	08 1.8		02	7	7	E	LEAR		
26	AFS	0149E	0940D	N15	E43	07 29.3		02	9	9	E	LEAR		
26	DSF	0222U	1750U	N27	E20	07 27.6		11	0	0	E	PALE		
26	BSL	0527E	0616D	N40	W90	07 18.9	1				C	ABST		
26	ASR	0603E	0924D	N16	E87	08 1.8		05	9	9	E	SVTO		
26	ADF	0603E	1732D	S18	E56	07 30.5	1	04	9	9	E	SVTO	7238	
26	AFS	0604E	1732D	N14	W56	07 22.0		02	9	9	E	SVTO	7232	
26	ASR	0617E	0920D	S13	W90	07 19.5		03	9	9	E	SVTO	7230	
26	AFS	0632E	1732D	N03	W20	07 24.8		01	9	9	E	SVTO		
26	AFS	0733E	1732D	N15	E40	07 29.3		01	7	7	E	SVTO		
26	ASR	0734E	0924D	N19	E90	08 2.2		02	9	9	E	SVTO		
26	DSD	0818E	0900D	S17	E52	07 30.3	1				V	KHAR		
26	APR	0840E	0904D	N40	W90	07 19.0	1				V	KHAR		
26	AFS	0911E	1732D	S14	E02	07 26.5		02	8	8	E	SVTO		
26	APR	0925E	1047D	N40	W90	07 19.1	1				V	KHAR		
26	AFS	1052E	2220D	N16	E72	07 31.9		01	9	9	E	RAMY	7241	
26	AFS	1054E	2220D	S07	E41	07 29.5		01	9	9	E	RAMY		
26	AFS	1057E	2220D	S20	E50	07 30.3		01	9	9	E	RAMY	7238	
26	AFS	1100E	2220D	S14	E01	07 26.5		01	9	9	E	RAMY	7240	
26	DSD	1101E	2220D	S13	E00	07 26.4		01	9	9	E	RAMY	7240	
26	AFS	1109E	2220D	N18	W47	07 22.9		01	9	9	E	RAMY	7236	
26	SSB	1110		348	W52	07 22.4			0	0	E	RAMY		
26	ADF	1130E	1732D	N13	W56	07 22.2	1	04	9	9	E	SVTO	7236	
26	DSD	1137E	2220D	N15	W56	07 22.2		02	9	9	E	RAMY	7232	
26	AFS	1143E	0000	S12	W28	07 24.4		02	9	9	E	SVTO	7239	
26	DSD	1143E	0000	S15	W29	07 24.3		02	9	9	E	SVTO	7239	
26	AFS	1146E	0000	S23	E48	07 30.2		02	9	9	E	SVTO	7238	
26	DSD	1209E	1330D	S22	E58	07 31.0		11	9	9	E	RAMY	7238	Flare Associated
26	DSD	1225E	1550D	S21	E59	07 31.0		05	9	9	E	SVTO	7238	Flare Associated
26	APR	1300E	0148D	N39	W90	07 19.2	1	05	9	9	E	HOLL		
26	AFS	1300E	0148D	S14	E02	07 26.7		02	9	9	E	HOLL		
26	SSB	1322		349	W55	07 22.3			0	0	E	SVTO		
26	SSB	1346		349	W54	07 22.3			0	0	E	HOLL		
26	AFS	1511E	0148D	N16	W62	07 21.9		02	9	9	E	HOLL	7232	
26	ASR	1514E	0148D	N19	E89	08 2.4		01	7	7	E	HOLL		
26	DSF	1732U	0539U	S13	W30	07 24.5	2	04	0	0	E	SVTO		
26	ASR	1804E	1912D	S20	W88	07 20.0		12	9	9	E	HOLL		
26	AFS	1804E	0145D	N16	W62	07 22.0		02	9	9	E	PALE	7232	
26	AFS	1804E	0145D	S14	W01	07 26.7		02	9	9	E	PALE	7240	
26	AFS	1806E	0145D	S20	E50	07 30.6		02	9	9	E	PALE	7238	
26	SSB	1808		349	W56	07 22.5			0	0	E	PALE		
26	ASR	1820E	2010D	S20	W85	07 20.3		10	9	9	E	RAMY		
27	DSD	0120E	0145D	S19	E47	07 30.6		02	9	9	E	PALE	7238	
27	DSD	0458E	0943D	S18	E42	07 30.4		04	9	9	E	LEAR	7238	
27	AFS	0500E	0943D	N15	E72	08 1.6		02	8	7	E	LEAR	7241	
27	DSD	0502E	0943D	N15	W74	07 21.6		03	9	9	E	LEAR	7232	
27	AFS	0504E	0943D	N13	W72	07 21.8		02	8	8	E	LEAR	7232	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
27	DSD	0612	0633	S19	E46	07 30.8		04	9	9	E	SVTO	7238	Flare Associated
27	AFS	0711E	0741D	N18	W60	07 22.7		01	9	9	E	SVTO	7236	
27	AFS	0711E	1732D	N13	W70	07 22.0		02	9	9	E	SVTO	7232	
27	AFS	0715E	1732D	S15	W10	07 26.5		03	9	9	E	SVTO	7240	
27	ADF	0719E	1732D	N25	E77	08 2.3	1	08	9	9	E	SVTO		
27	AFS	0725E	1732D	S20	E43	07 30.6		01	9	9	E	SVTO	7238	
27	ADF	0810E	0914D	S20	E42	07 30.5	1	03	9	9	E	SVTO	7238	
27	AFS	1045E	2246D	N11	E64	08 1.3		01	9	9	E	RAMY	7241	
27	DSD	1045E	2246D	N13	E63	08 1.2		03	9	9	E	RAMY	7241	
27	AFS	1058E	1732D	N17	W61	07 22.8		02	9	9	E	SVTO	7236	
27	DSD	1059E	1732D	S17	E34	07 30.0		02	9	9	E	SVTO	7238	
27	AFS	1105E	2246D	N18	W59	07 23.0		02	9	9	E	RAMY	7236	
27	AFS	1106E	2246D	N15	E70	08 1.8		02	9	9	E	RAMY	7232	
27	DSD	1110E	1114D	S18	E36	07 30.2	1				V	KHAR		
27	AFS	1116E	2246D	S14	W13	07 26.5		02	9	9	E	RAMY	7240	
27	DSD	1117E	1732D	N16	E63	08 1.2		02	9	9	E	SVTO	7241	
27	ASR	1146E	1217D	N05	W90	07 20.7		06	9	9	E	RAMY		
27	EPL	1151E	1204	N02	W90	07 20.8		15	9	9	E	SVTO		
27	EPL	1155E	1215D	N05	W90	07 20.8	3	18	9	9	E	RAMY		
27	APR	1204E	1732D	N02	W90	07 20.8		11	9	9	E	SVTO		
27	DSD	1306E	1732D	S21	E46	07 31.1		06	9	9	E	SVTO	7238	
27	SSB	1554		349	W68	07 23.2			0	0	E	HOLL		
27	DSD	1638E	0506D	N14	W72	07 22.2		02	9	9	E	PALE	7232	
27	AFS	1638E	0506D	N15	W74	07 22.1		02	9	9	E	PALE	7232	
27	AFS	1640E	0506D	S15	W16	07 26.5		02	9	9	E	PALE	7240	
27	DSD	1640E	0506D	S18	E31	07 30.0		03	9	9	E	PALE	7238	
27	AFS	1732E	2246D	S21	E38	07 30.6		02	9	9	E	RAMY	7238	
27	DSD	1740E	2246D	N16	E76	08 2.5		03	9	9	E	RAMY		
27	SSB	1743		347	W67	07 23.5			0	0	E	PALE		
27	AFS	1918E	0506D	S19	E36	07 30.5		01	9	9	E	PALE	7238	
28	DSD	0535E	1730D	N16	E52	08 1.2		02	9	9	E	SVTO	7241	
28	AFS	0535E	1730D	N18	E65	08 2.2		03	9	9	E	SVTO	7242	
28	ADF	0535E	1730D	N19	E61	08 1.9	1	06	9	9	E	SVTO	7242	
28	AFS	0535E	1730D	S20	E29	07 30.4		02	9	9	E	SVTO	7238	
28	AFS	0600E	1730D	S16	W46	07 24.8		02	9	9	E	SVTO	7240	
28	SSB	0611		348	W76	07 23.8			0	0	E	SVTO		286 W13
28	AFS	0634E	1730D	N13	W83	07 22.0		02	9	9	E	SVTO	7232	
28	ASR	0700E	0828D	N11	W85	07 21.9		02	9	9	E	LEAR	7232	
28	ASR	1017E	1730D	N11	W90	07 21.6		01	6	7	E	SVTO	7232	
28	DSD	1118E	1539D	S19	E19	07 29.9		02	9	9	E	RAMY	7238	
28	AFS	1119E	2017D	S18	E17	07 29.8		01	9	9	E	RAMY	7238	
28	AFS	1130E	2017D	S13	W26	07 26.5		02	9	9	E	RAMY	7240	
28	ADF	1340E	0100D	N09	W21	07 27.0	2	06	9	9	E	HOLL		
28	ASR	1340E	0100D	N14	W90	07 21.8		01	9	9	E	HOLL	7232	
28	DSD	1353E	1504D	N07	W22	07 26.9		03	9	9	E	SVTO		
28	SSB	1524		287	W20	08 4.3			0	0	E	HOLL		
28	DSD	1740E	2017D	N17	E62	08 2.4		03	9	9	E	RAMY	7242	
28	APR	2153E	2324D	N22	E90	08 4.8	1				C	VORO		
29	ASR	0612E	1732D	N14	W90	07 22.4		01	9	9	E	SVTO	7236	Flare Associated
29	DSD	0628E	1440D	N19	E56	08 2.5		06	9	9	E	SVTO	7242	
29	BSL	0631E	0701D	N03	W90	07 22.5	1				C	ABST		
29	ASR	0650E	0940D	N15	W90	07 22.5		02	9	9	E	LEAR	7236	
29	DSD	0702E	0940D	N11	W54	07 25.2		02	9	9	E	LEAR		
29	APR	0710E	1732D	S06	E90	08 5.0	1	09	9	9	E	SVTO		
29	AFS	0812E	1732D	S20	E15	07 30.5		02	9	9	E	SVTO	7238	
29	DSD	0812E	1732D	S21	E12	07 30.3		03	9	9	E	SVTO	7238	
29	APR	0818E	1732D	S01	W90	07 22.6	1	04	7	8	E	SVTO	7232	
29	ADF	0830E	1732D	S17	W38	07 26.5	1	03	9	9	E	SVTO	7240	
29	DSD	0916E	1125D	N10	W57	07 25.1		01	9	9	E	SVTO		
29	AFS	0929E	1732D	N13	E35	08 1.0		02	9	9	E	SVTO	7241	
29	AFS	0929E	1732D	N16	E42	08 1.6		02	9	9	E	SVTO	7241	
29	AFS	0942E	1732D	N16	E42	08 1.6		02	9	9	E	SVTO	7242	
29	DSD	1028E	1732D	N17	E66	08 3.4		01	9	9	E	SVTO		
29	DSD	1055E	1940D	N12	W56	07 25.2		04	9	9	E	RAMY	7243	
29	DSD	1105E	1425D	N17	E53	08 2.5		03	9	9	E	RAMY	7242	
29	AFS	1110E	1940D	S13	W39	07 26.5		01	9	9	E	RAMY	7240	
29	ASR	1125E	1940D	N17	W90	07 22.6		05	9	9	E	RAMY		
29	DSD	1125E	1732D	N10	W58	07 25.1		04	9	9	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

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Jul 92

JULY 1992

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
29	SSB	1230		285	W29	08 5.2			0	0	E	RAMY		
29	AFS	1240E	1940D	N16	E65	08 3.4		02	9	9	E	RAMY	7244	
29	DSB	1245E	1732D	S21	E08	07 30.1		03	9	9	E	SVTO	7238	
29	SSB	1300		288	W32	08 5.5			0	0	E	HOLL		
29	AFS	1301E	1732D	N11	W60	07 25.0		02	9	9	E	SVTO		
29	DSB	1350E	0102D	N11	W60	07 25.1		02	9	9	E	HOLL		
29	ASR	1350E	0102D	N17	W90	07 22.7		06	9	9	E	HOLL	7236	
29	DSB	1350E	0102D	S21	E07	07 30.1		02	9	9	E	HOLL	7238	
29	AFS	1425E	1940D	N15	E55	08 2.8		02	9	9	E	RAMY	7242	
29	AFS	1433E	1940D	S20	E10	07 30.4		02	9	9	E	RAMY	7238	
29	DSB	1540E	1940D	S21	E07	07 30.2		03	9	9	E	RAMY	7238	
29	AFS	1730E	1925D	S21	E07	07 30.3		04	9	9	E	PALE	7238	
29	DSB	1733E	1940D	N12	W63	07 25.0		02	9	9	E	RAMY	7243	
29	APR	1903E	1925D	N19	W90	07 22.9		06	9	9	E	PALE	7236	
29	AFS	1929E	0102D	N11	W64	07 25.0		02	9	9	E	HOLL		
30	DSB	0059E	0935D	S18	W07	07 29.5		03	5	9	E	LEAR	7238	
30	SSB	0448		286	W40	08 6.2			0	0	E	SVTO		
30	DSB	0448	1310D	S22	W01	07 30.1		04	9	9	E	SVTO	7238	Flare Associated
30	DSB	0454	0935D	S20	W01	07 30.1		06	9	9	E	LEAR	7238	Flare Associated
30	APR	0515E	1015D	N20	E90	08 6.1					V	ATHN		
30	AFS	0622E	0935D	N19	E38	08 2.2		02	9	9	E	LEAR	7242	
30	AFS	0730E	1736D	S22	E03	07 30.5		04	9	9	E	SVTO	7238	
30	AFS	0739E	1736D	S16	W51	07 26.4		02	9	9	E	SVTO	7240	
30	AFS	0746E	1736D	N09	W70	07 25.1		02	9	9	E	SVTO	7243	
30	DSB	0746E	1736D	N10	W71	07 25.0		02	9	9	E	SVTO	7243	
30	AFS	0757E	1736D	N17	E53	08 3.3		02	9	9	E	SVTO	7244	
30	AFS	0807E	1736D	N17	E35	08 2.0		02	9	9	E	SVTO	7242	
30	DSB	0807E	1736D	N17	E40	08 2.4		02	9	9	E	SVTO	7242	
30	DSB	0814E	1736D	S20	W07	07 29.8		05	9	9	E	SVTO	7238	
30	AFS	0835E	1736D	N13	E28	08 1.5		02	9	9	E	SVTO	7241	
30	DSB	0835E	1736D	N16	E26	08 1.3		02	9	9	E	SVTO	7241	
30	AFS	1145E	2143D	S19	W02	07 30.3		01	7	7	E	RAMY	7238	
30	DSB	1145E	2143D	S20	W02	07 30.3		01	9	9	E	RAMY	7238	
30	DSB	1155E	1300D	N18	E41	08 2.6		02	9	9	E	RAMY	7242	
30	DSB	1156E	1736D	N16	E37	08 2.3		02	9	9	E	SVTO	7242	
30	AFS	1259E	2143D	N17	E49	08 3.3		01	9	9	E	RAMY	7244	
30	DSB	1259E	1736D	S21	W06	07 30.1		02	9	9	E	SVTO	7238	
30	DSB	1300E	2226D	S21	W05	07 30.1		03	9	9	E	HOLL	7238	
30	DSB	1305E	2143D	N15	E37	08 2.3		02	9	9	E	RAMY	7242	
30	DSB	1315E	1736D	N14	E24	08 1.4		02	9	9	E	SVTO	7241	
30	AFS	1438E	2143D	N12	W71	07 25.3		02	9	9	E	RAMY	7243	
30	DSB	1453E	1900D	N11	W74	07 25.0		04	9	9	E	HOLL	7243	
30	DSB	1453E	2226D	N17	E35	08 2.3		03	9	9	E	HOLL	7242	
30	AFS	1518E	2226D	S19	W03	07 30.4		02	7	7	E	HOLL	7238	
30	ASR	1537E	2226D	S05	E81	08 5.7		03	9	9	E	HOLL		
30	BSD	1605E	1736D	S05	E82	08 5.8		01	9	9	E	SVTO		
30	APR	1753E	0237D	S18	W90	07 23.9		03	8	8	E	PALE	7239	
30	AFS	1753E	0400D	S06	W24	07 28.9		02	9	9	E	PALE	7238	
30	DSB	1753E	0415D	S09	W17	07 29.5		05	9	9	E	PALE	7238	
30	APR	1755E	0237D	S06	E90	08 6.5		02	9	9	E	PALE		
30	DSB	1755E	0415D	N17	E34	08 2.3		06	9	9	E	PALE	7242	
30	AFS	1755E	0415D	N22	E35	08 2.4		02	9	9	E	PALE	7242	
30	APR	2230E	2256D	N20	E90	08 6.8	2				C	VORO		
31	DSB	0218E	0514D	N18	E30	08 2.4		05	9	0	E	LEAR	7242	
31	SSB	0245		288	W53	08 7.6			0	0	E	PALE		
31	AFS	0510E	1735D	S20	W15	07 30.1		02	9	9	E	SVTO	7238	
31	AFS	0510E	1735D	S21	W10	07 30.4		02	9	9	E	SVTO	7238	
31	DSB	0510E	1735D	S27	W13	07 30.2		02	9	9	E	SVTO	7238	
31	DSB	0512E	1050D	N17	E28	08 2.3		03	9	9	E	SVTO	7242	Flare Associated
31	DSB	0520E	1735D	N19	E28	08 2.3		07	9	9	E	SVTO	7242	
31	AFS	0520E	1735D	N20	E30	08 2.5		02	9	9	E	SVTO	7242	
31	AFS	0527E	1735D	N12	E15	08 1.3		02	9	9	E	SVTO	7241	
31	AFS	0527E	1735D	S17	W63	07 26.4		01	5	6	E	SVTO	7240	
31	AFS	0536E	1321D	S07	E77	08 6.0		01	6	9	E	SVTO		
31	AFS	0536E	1735D	N17	E41	08 3.3		01	9	9	E	SVTO	7244	
31	AFS	0742E	1735D	S07	W04	07 31.0		01	9	9	E	SVTO		
31	ASR	0929E	1031D	S09	E90	08 7.1		02	8	9	E	SVTO		
31	APR	1000E	1040D	N02	W90	07 24.7	1	07	8	9	E	SVTO		

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ACTIVE PROMINENCES AND FILAMENTS

JULY 1992

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
31	DSD	1022E	1735D	N18	E23	08 2.2		04	9	9	E	SVTO	7242	
31	DSD	1046E	1735D	N16	E25	08 2.3		02	9	9	E	SVTO	7242	
31	AFS	1137E	1616D	S19	W14	07 30.4		01	9	9	E	RAMY	7238	
31	AFS	1138E	1616D	S06	W06	07 31.0		02	9	9	E	RAMY	7246	
31	DSD	1141E	1616D	S08	E74	08 6.0		01	9	9	E	RAMY		
31	DSD	1143E	1616D	N16	E25	08 2.4		04	9	9	E	RAMY	7242	
31	AFS	1143E	1616D	N20	E27	08 2.5		02	9	9	E	RAMY	7242	
31	ASR	1155E	1616D	N22	E90	08 7.4		02	9	9	E	RAMY		
31	APR	1156E	1616D	S04	E90	08 7.2	1	03	9	9	E	RAMY		
31	AFS	1158E	1525D	S13	E24	08 2.3		02	7	6	E	RAMY		
31	AFS	1159E	1616D	N06	W38	07 28.6		02	9	9	E	RAMY	7247	
31	ASR	1159E	1735D	N24	E90	08 7.4		01	9	9	E	SVTO		
31	DSF	1304U	1114U	N26	E48	08 4.3	2	36	0	0	E	RAMY		
31	ASR	1324E	1616D	N14	W88	07 24.9		02	9	9	E	RAMY	7243	
31	AFS	1343E	2051D	N06	W39	07 28.6	1	02	9	9	E	HOLL		
31	ASR	1451E	2051D	N25	E90	08 7.6		01	0	0	E	HOLL		
31	AFS	1457E	2051D	N10	W90	07 24.9		02	9	9	E	HOLL	7243	
31	AFS	1457E	2051D	S06	W10	07 30.9		02	0	0	E	HOLL		
31	AFS	1508E	1735D	N04	W41	07 28.6		02	9	9	E	SVTO		
31	AFS	1620E	1735D	S15	E00	07 31.7		02	9	9	E	SVTO		
31	DSD	2015E	0445D	S21	W17	07 30.5		03	9	9	E	PALE	7238	
31	DSD	2015E	0445D	S21	W17	07 30.5		03	9	9	E	PALE	7238	
31	AFS	2015E	2332D	S23	W20	07 30.3		02	9	9	E	PALE	7238	
31	ASR	2024E	2051D	N10	W90	07 25.1		03	9	9	E	HOLL	7243	
31	ASR	2032E	2051D	S11	E90	08 7.6		01	9	9	E	HOLL		
31	DSD	2037E	2051D	N04	W45	07 28.5		02	9	9	E	HOLL		
31	AFS	2115E	0445D	N16	E20	08 2.4		02	9	9	E	PALE	7242	
31	DSD	2115E	0445D	N18	E22	08 2.6		05	9	9	E	PALE	7242	
31	ASR	2330E	0445D	N13	W90	07 25.2		05	9	9	E	PALE	7243	

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 = Disappearing Solar 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.

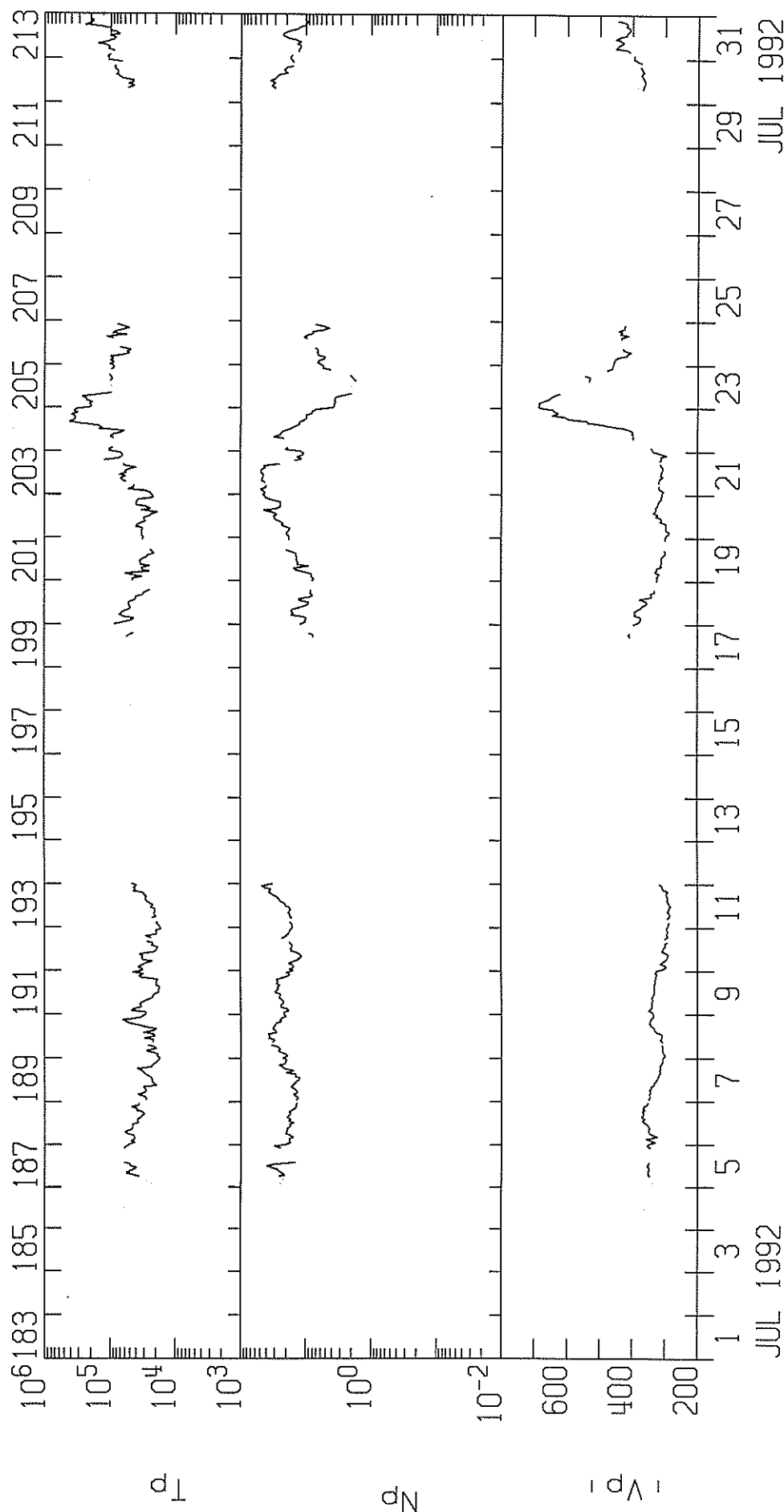
The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

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.

IMP 8 SOLAR WIND PLASMA JULY 1992

MIT/CSR IMP 8 PLASMA PARAMETERS



IMP 8

MIT

PRELIMINARY ONE-HOUR AVERAGES

C O N T E N T S

Comprehensive Reports

MISCELLANEOUS DATA

Number 581 Part II

Page

SOLAR IRRADIANCE

Earth Radiation Budget Satellite (ERBS) October 1984-October 1992

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**EARTH RADIATION BUDGET SATELLITE (ERBS) TOTAL SOLAR IRRADIANCE
MEASUREMENTS
OCTOBER 1984 THROUGH OCTOBER 1992**

The Earth Radiation Budget Satellite (ERBS) solar irradiance values for 1984-1992 were obtained from the ERBS solar monitor. The ERBS solar monitor, an active cavity radiometer, is an earlier version of the Active Cavity Radiometer Irradiance Monitors (ACRIM) which are located on the NASA Upper Atmosphere Research Satellite (UARS) spacecraft. The monitor was placed into orbit aboard the NASA ERBS spacecraft on October 5, 1984. The monitor is operating properly at this time.

The individual total solar irradiance values represent instantaneous measurements which are cosine corrected and normalized to the mean Earth/Sun distance of one astronomical unit. Once every 2 weeks, the Sun is observed by the monitor for several 64-second measurement intervals. Each interval is separated into two 32-second periods. During the first period, the unocculted Sun drifts across the 13.7-degree fields of view, and its radiation field is measured. During the second period, a low-emittance shutter, representative of a near-zero irradiance source, is cycled into the field of view, and its radiation field is measured. The resulting measurements from the two different periods are used to define the irradiance, using the model that is described in reference 1 of the reference list. Typically, two to eight values of the irradiance are determined during an orbit. Considering that these irradiance values are derived only during a single orbit for a few minutes, the averaged irradiance value represents an instantaneous one and not a daily average. However, during March 23, 1992, through April 2, 1992, specialized irradiance measurements were extended to three to six orbital measurement periods each day.

As shown in Figure 1, the ERBS solar monitor time series covers the period from October 25, 1984, through October 7, 1992. The measurement precision is approximately 0.01 percent while the accuracy is 0.2 percent (reference 1). The ERBS data reduction model is described in considerable detail in reference 1. In reference 2, analyses of the time series have been presented as well as inter comparisons of the ERBS time series with those of the ACRIM Solar Maximum Mission and the Nimbus 7 Earth Radiation Budget (ERB) Channel 10c pyrheliometers. Inter comparisons among the Nimbus 6-ERB, Mariner VI, Mariner VII, Space Lab I, ERBS, NOAA-9 and NOAA-10 pyrheliometers are also presented in reference 3.

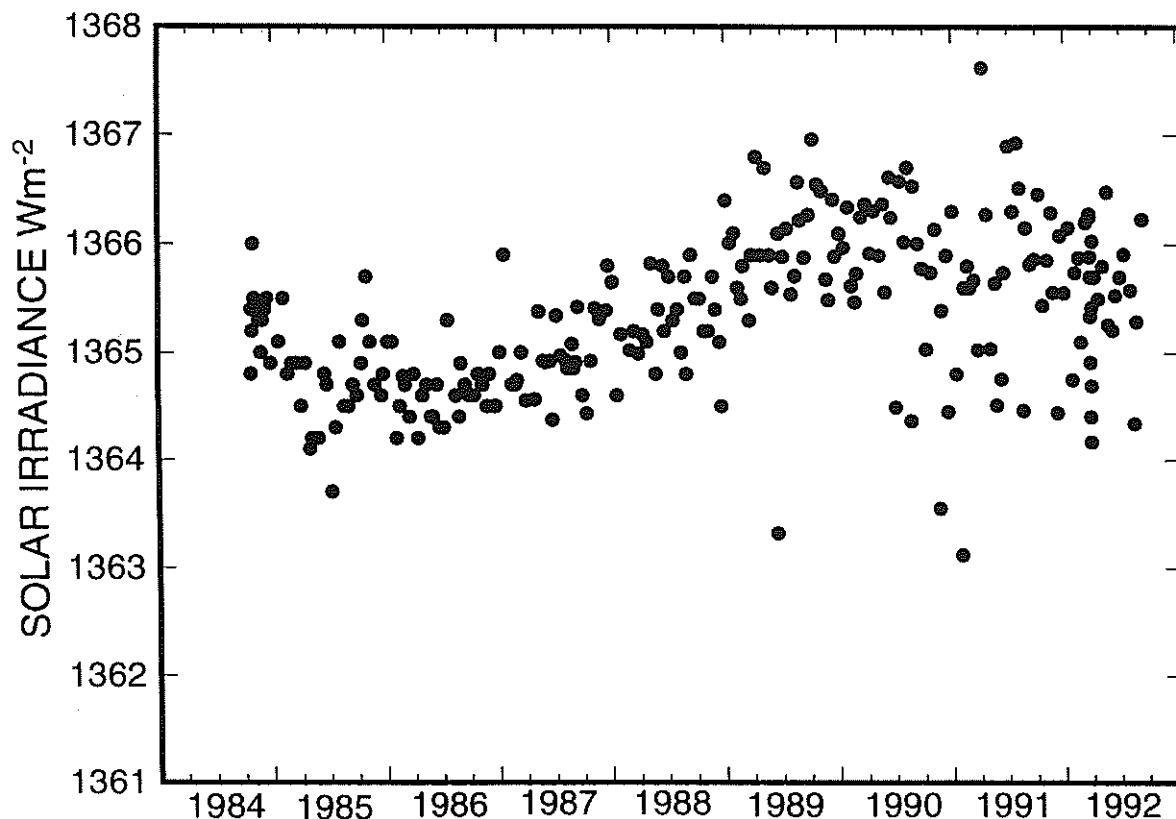


Fig. 1. Total solar irradiance measurements from the Earth Radiation Budget Satellite (ERBS) for the period 25 October 1984 to 7 October 1992 are plotted here.

References

1. R.B. Lee III, B.R. Barkstrom, and R.D. Cess, Characteristics of the Earth Radiation Budget Experiment Solar Monitor, Applied Optics, Vol. 26, No. 15, pp. 3090-3096, 1987.
2. R.B. Lee III, M.A. Gibson, N. Shivakumar, R. Wilson, H.L. Kyle, and A.T. Mecherikunnel, Solar Irradiance Measurements: Minimum through Maximum Solar Activity, Metrologia, Vol. 28, pp. 265-268, 1991.
3. R.B. Lee III, B.R. Barkstrom, M.R. Luther, and R.D. Cess, Solar Irradiance Measurements Using the Earth Radiation Budget Experiment Solar Monitors, Proceedings Sixth Conference on Atmospheric Radiation, American Meteorological Society, pp. J5-J8, 1986.

[illegible]

SOLAR IRRADIANCE INSTANTANEOUS VALUES
EARTH RADIATION BUDGET EXPERIMENT
NASA LANGLEY RESEARCH CENTER
WATTS/m²
1985 - ERBS

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01					1364.4							
02										1364.7		
03				1364.7								
04									1364.7			
05												
06		1365.3	1365.0									
07								1365.3				
08					1364.4							
09	1365.1											
10						1364.0						
11												
12												
13										1365.2		
14												
15												
16										1365.1		
17				1365.2								
18					1364.84				1365.0			1364.6
19												
20		1364.9	1365.1									
21								1364.8		1365.3		
22												
23	1365.0											
24							1364.6					
25												1364.7
26					1365.0							
27											1364.6	
28												
29					1364.6							
30												
31										1365.7		

[illegible]

SOLAR IRRADIANCE INSTANTANEOUS VALUES
EARTH RADIATION BUDGET EXPERIMENT
NASA LANGLEY RESEARCH CENTER
WATTS/m²
1987 - ERBS

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01				1364.6								
02									1364.9			
03						1364.9						
04			1364.7									
05								1364.9				
06												
07	1365.0											
08							1365.3					
09									1364.9			
10												
11											1365.4	
12								1364.8				
13				1365.4								
14										1364.4		
15		1364.8										
16									1365.4			
17												
18			1365.0			1365.0						1365.4
19												
20												
21	1365.9											
22							1365.0					
23												1365.8
24						1364.4						
25											1365.3	
26		1364.7										
27						1364.9						
28									1365.1		1364.9	
29				1364.6								
30										1364.6		
31												

SOLAR IRRADIANCE INSTANTANEOUS VALUES
EARTH RADIATION BUDGET EXPERIMENT
NASA LANGLEY RESEARCH CENTER
WATTS/m²
1988 - ERBS

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01						1365.4						1365.4
02								1365.4				
03		1365.2	1365.0									
04												
05												
06	1365.7						1365.7					
07												
08											1365.2	
09												
10												
11					1365.8					1365.5		
12												
13				1365.2					1365.9			
14								1365.0				
15												1365.1
16			1365.2									
17						1365.8						
18												
19												
20	1364.6						1365.3					
21												1364.5
22						1365.2					1365.7	
23												
24												
25					1364.8							
26								1365.7		1365.2		
27				1365.1								
28									1365.5			
29			1365.0									
30												
31								1364.8				

SOLAR IRRADIANCE INSTANTANEOUS VALUES
EARTH RADIATION BUDGET EXPERIMENT
NASA LANGLEY RESEARCH CENTER
WATTS/m²
1989 - ERBS

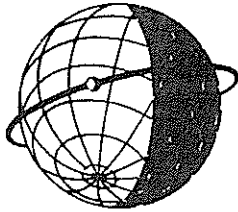
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	1366.1	1366.1	1365.8									
02						1365.6						
03								1365.5				
04												
05												
06							1365.9					
07												
08												
09											1366.5	
10												
11					1366.7							
12		1365.6								1367.0		
13				1366.8								
14									1365.9			
15						1363.3		1365.7				
16												1366.4
17												
18	1365.2											
19												
20							1366.1					
21												1365.9
22			1365.3			1366.1						
23											1365.7	
24		1365.5										
25					1365.9							
26								1366.2		1366.5		
27				1365.9								
28			1365.9						1365.5			
29												
30											1365.5	
31								1366.3				

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SOLAR IRRADIANCE INSTANTANEOUS VALUES
EARTH RADIATION BUDGET EXPERIMENT
NASA LANGLEY RESEARCH CENTER
WATTS/m²
1991 - ERBS

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01												
02	1366.3											
03							1366.9					
04												
05												
06											1365.9	
07												
08												
09		1365.6			1365.0			1366.5		1366.5		1364.4
10				1367.6								
11									1365.8			
12						1364.8						
13			1365.7									
14												
15												
16	1364.8											
17							1366.3					
18												1366.1
19						1365.7						
20		1365.8									1366.3	
21								1364.5				
22					1366.5							
23										1365.4		
24				1366.3								
25									1365.9			
26											1365.6	
27		1365.6	1365.0									
28					1364.5			1366.2				
29												
30	1363.1											
31							1366.9					

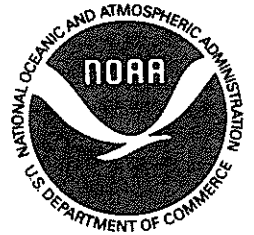
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WORLD DATA CENTER A

FOR

SOLAR-TERRESTRIAL PHYSICS



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

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