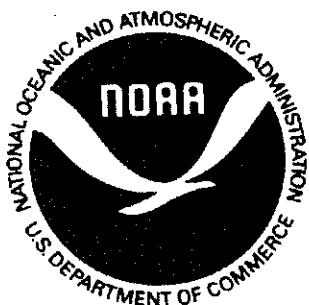




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Number 585

(Issued in Two Parts)

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Nov 92

H α SOLAR FLARES

NOVEMBER 1992

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 (10-6 Disk)	Apparent	Corr (Sq Deg)	Remarks
0001	VORO	01	0035	0042	0102	S25 W88	7321	10	25.3	27	SF		2	C	0042	27			DHJ
0002	VORO	01	0108	0109	0117	S25 W88	7321	10	25.3	9	SF		2	C	0109	36			DHJ
		01	1223		1228	No Flare Patrol													
		01	1253		1257	No Flare Patrol													
		01	1403		1411	No Flare Patrol													
		01	1417		1427	No Flare Patrol													
		01	1436		1447	No Flare Patrol													
0003	HOLL	01	1638	1643	1651	S09 E73	7330	11	7.2	13	SF		3	E		28			
		01	1855		1904	No Flare Patrol													
		01	2009		2014	No Flare Patrol													
0004	HOLL	01	2105	2111	2140	S14 W37	7323	10	30.2	35	SF	C 1.2	3	E		56			
		01	2228		2317	No Flare Patrol													
0005	VORO	02	0153	0200	0226	S13 W42	7323	10	30.0	33	SF		2	C	0200	90	1.3		EJ
0006	MITK	02	0310	0314	0427	S23 W90	7321	10	26.3	77	2B				0314	228			M
0007	TACH	02	0744		0748D	N23 W31		10	31.0	4D	SB		1	C	0746	44	0.6		EG
0008		02	0748	0748	0805	N16 W18	7328	10	31.9	17	SF					19			F
	LEAR	02	0748	0748	0804	N15 W19	7328	10	31.9	16	SF		3	E		19			F
	KANZ	02	0750E	0750U	0806	N16 W18	7328	11	1.0	16D	SF		2	C					
0009		02	09091	09104	0930	N17 W21	7328	10	31.8	21	SF					23			F
	LEAR	02	0909	0910	0931	N16 W21	7328	10	31.8	22	SF		3	E		23			F
	KANZ	02	0910	0914	0930	N18 W21	7328	10	31.8	20	SF		2	C					
0010		02	09406	09543	1002	S15 W46	7323	10	30.0	22	SF					50			F
	LEAR	02	0940	0957	1002	S16 W46	7323	10	30.0	22	SF		3	E		50			F
	KANZ	02	0946	0954	1002	S14 W45	7323	10	30.1	16	SF		2	C					
0011	KANZ	02	1102	1102	1106	S16 W44	7323	10	30.2	4	SF		2	C					
0012		02	1226	12261	1324	S16 W48	7323	10	30.0	58	SF					18			
	KANZ	02	1226	1226	1322	S16 W48	7323	10	30.0	56	SF		2	C					
	SVTO	02	1226	1227	1325	S16 W49	7323	10	29.9	59	SF		3	E		18			
0013	SVTO	02	1226	1322	1339	S06 E61	7330	11	7.1	73	SF		3	E		28			
0014	KANZ	02	1334	1334	1338	S17 W44	7323	10	30.3	4	SF		2	C					
0015	HOLL	02	1730	1739	1748	S08 E60	7330	11	7.2	18	SF		3	E		20			
		02	1829		1910	No Flare Patrol													
0016	LEAR	03	0010	0012	0051D	S15 W53	7323	10	30.1	41D	SF	C 1.0	4	E		51			F
0017	LEAR	03	0220	0221	0243	S15 W54	7323	10	30.1	23	SF		3	E		26			F
0018	LEAR	03	0731	0740	0805	N16 W33	7328	10	31.8	34	1F	C 1.1	3	E		117			F
0019	KAND	03	1000		1008	S15 W20	7325	11	1.9	8	SF			P	1003	42	0.5		E
0020	SVTO	03	1042	1046	1118	N16 W35	7328	10	31.8	36	SF	C 1.1	3	E		41			F
0021	SVTO	03	1130	1130	1141	S05 W26	7326	11	1.5	11	SF	B 8.4	3	E		15			
		03	1236		1304	No Flare Patrol													
		03	1316		1326	No Flare Patrol													
0022		04	01303	01351	0148	S22 W16	7332	11	2.8	18	1N	C 1.4				106	1.2		D
	LEAR	04	0130	0135	0157	S23 W16	7332	11	2.8	27	1F	C 1.4	3	E		111			
	MITK	04	0133	0136	0140	S22 W16	7332	11	2.8	7	SN				0136	100	1.2		D

H α SOLAR FLARES5
Nov 92

NOVEMBER 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	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)	
0023	MITK	04	0455	0455	0457	S19	W18	7332	11	2.8	2	SN				0455	88	1.0	E
			04 1241		1243			No Flare Patrol											
			04 1254		1339			No Flare Patrol											
			04 1513		1544			No Flare Patrol											
			04 2137		2139			No Flare Patrol											
			04 2141		2149			No Flare Patrol											
			04 2155		2206			No Flare Patrol											
			04 2233		2244			No Flare Patrol											
0024	HOLL	04	2235	2235	2244	S10	E33	7330	11	7.4	9	SF		3	E		21		
			04 2246		2319			No Flare Patrol											
0025	VORO	05	0130E	0135U	0154D	S22	W15	7332	11	3.9	24D	SF		2	C	0136	134	1.6	DJT
0026	VORO	05	0220	0222	0230	S20	W17	7332	11	3.8	10	SF		2	C	0222	99	1.2	EJT
0027	TACH	05	0618	0620	0634	S16	W90	7323	10	29.5	16	SB		3	C	0620	26		D
0028	SVTO	05	0746E	0748U	0837	N15	E75	7334	11	11.0	51D	SF		2	E		45		F
0029	SVTO	05	0911E	0913U	0920D	N16	E82	7334	11	11.6	9D	SF C 4.3	2	E		41			F
0030	KANZ	05	0920E	0924	0928	S16	W79	7323	10	30.5	8D	SF		2	C				
0031		05	1324	1324.1	1331	N14	E82	7334	11	11.7	7	SF C 2.2				22			F
	KANZ	05	1324	1324	1332	N14	E81	7334	11	11.7	8	SF		2	C				
	RAMY	05	1324	1325	1330	N14	E82	7334	11	11.7	6	SF C 2.2	4	E		22			F
			05 1815		1829			No Flare Patrol											
			05 1851		2018			No Flare Patrol											
			05 2046		2058			No Flare Patrol											
			05 2120		2125			No Flare Patrol											
			06 0000		0027			No Flare Patrol											
			06 0029		0043			No Flare Patrol											
0032	LEAR	06	0352	0424	0444	N14	E69	7334	11	11.4	52	SF		2	E		35		
0033	SVTO	06	0655	0735	0744	N16	E70	7334	11	11.6	49	SF		3	E		17		
0034		06	0831.2	0835*	0910	N14	E68	7334	11	11.5	39	SF					18		
	KANZ	06	0831	0835	0911	N13	E67	7334	11	11.4	40	SF		2	C				
	SVTO	06	0833	0846	0910	N15	E68	7334	11	11.5	37	SF		3	E		18		
0035		06	0957*	0959*	1047	N14	E67	7334	11	11.5	50	SF C 1.6					18		
	SVTO	06	0957	0959	1012	N15	E68	7334	11	11.6	15	SF		3	E		18		
	KANZ	06	0959	1055	1107	N13	E66	7334	11	11.4	68	SF		2	C				
	SVTO	06	1049	1054	1102	N15	E68	7334	11	11.6	13	SF C 1.6	4	E		19			
0036	KANZ	06	1155	1159	1207	N09	E62	7334	11	11.1	12	SF		2	C				
0037		06	1303	1307	1334	S10	E08	7330	11	7.1	31	SF					33		F
	KANZ	06	1303	1307	1326	S10	E07	7330	11	7.1	23	SF		2	C				
	SVTO	06	1317E	1317U	1343	S09	E10	7330	11	7.3	26D	SF		3	E		33		F
0038	SVTO	06	1345	1345	1352	N15	E63	7334	11	11.3	7	SF		3	E		18		
0039		06	1359.3	1400.2	1448	S09	E06	7330	11	7.0	49	SF C 1.1					30		F
	SVTO	06	1359	1400	1454	S09	E07	7330	11	7.1	55	SF C 1.1	3	E		30			F
	KANZ	06	1402	1402	1442	S09	E06	7330	11	7.0	40	SF		2	C				
0040		06	1414.1	1418.3	1425	N14	E63	7334	11	11.3	11	SF C 1.3					27		
	KANZ	06	1414	1418	1422	N13	E64	7334	11	11.4	8	SF		2	C				
	SVTO	06	1415	1421	1428	N15	E62	7334	11	11.3	13	SF C 1.3	3	E		27			
0041	HOLL	06	1817	1818	1827	S15	W59	7325	11	2.3	10	SF		3	E		68		
0042	PALE	06	1840	1851	1859	S19	E64	7335	11	11.7	19	SF		3	E		25		

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Nov 92

H α SOLAR FLARES

NOVEMBER 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0043	HOLL	06	1841	1843	1846	N12	E58	7334	11	11.1	5	SF		3	E		21		
0044	HOLL	06	2059	2100	2116	S19	E66	7335	11	11.9	17	SF B	8.1	3	E		26		
0045	HOLL	06	2303	2308	2324	S06	W72	7326	11	1.6	21	SF		3	E		37		F
0046		07	02155	0216*	0227	S17	E61	7335	11	11.7	12	SF B	7.4				44	1.5	DJ
	LEAR	07	0215	0216	0222	S18	E61	7335	11	11.7	7	SF B	7.4	3	E		39		
	VORO	07	0215	0216	0223	S17	E63	7335	11	11.9	8	SF		2	C	0216	63	1.5	DJ
	PALE	07	0220	0229	0237	S17	E60	7335	11	11.6	17	SF		3	E		30		
0047	LEAR	07	0253	0255	0259	S21	E67	7335	11	12.2	6	SF		3	E		11		
		07	0301		0317	No Flare Patrol													
0048	LEAR	07	0340	0345	0349	S07	E03	7330	11	7.4	9	SF		3	E		17		
		07	0434		0459	No Flare Patrol													
0049	TACH	07	0528	0533	0554	S09	W78	7326	11	1.4	26	SN		2	C	0533	46		E
0050	TACH	07	0638	0647	0651	S07	E04	7330	11	7.6	13	SB		2	C	0647	40	0.4	E
0051	KANZ	07	0818	0818	0822	S06	E01	7330	11	7.4	4	SF		2	C				
0052	KANZ	07	1242	1250	1254	S08	W78	7326	11	1.7	12	SF		2	C				
0053	KANZ	07	1422	1422	1426	S08	W11	7330	11	6.8	4	SF		2	C				
0054		07	1625E	1626U	1717	S21	W64	7332	11	2.8	52D	1F C	3.7				152		HU
	HOLL	07	1625E	1634U	1717	S22	W63	7332	11	2.8	52D	1F C	3.7	3	E		181		UH
	RAMY	07	1626E	1626U	1658D	S20	W65	7332	11	2.7	32D	1F		3	E		122		H
		07	2400		2400	No Flare Patrol													
0055	PALE	08	0040	0045	0105	N12	E43	7334	11	11.3	25	SF		3	E		18		
0056	KANZ	08	0741	0749	0753	S22	W69	7332	11	3.0	12	SF		2	C				
0057	KANZ	08	0745	0745	0749	N09	E39	7334	11	11.2	4	SF		2	C				
0058	SVTO	08	1311	1313	1331	S09	W16	7330	11	7.3	20	SF C	1.3	3	E		47		F
0059	SVTO	08	1419E	1422U	1434	S09	W18	7330	11	7.2	15D	SN C	5.0	2	E		31		F
0060	HOLL	08	2024	2030	2041	S20	W75	7332	11	3.1	17	SN C	1.1	3	E		94		
0061	PALE	08	2208	2210	2222	S08	W18	7330	11	7.6	14	SF B	9.4	3	E		48		
0062	PALE	09	0010	0012	0027	N12	E34	7334	11	11.6	17	SF		3	E		28		
0063		09	0027	0032I	0118	S08	W25	7330	11	7.1	51	1N C	2.8				76	0.6	EF
	PALE	09	0017E	0032	0118	S09	W24	7330	11	7.2	61D	1F C	2.8	3	E		103		F
	WATU	09	0027	0033	0033D	S07	W26	7330	11	7.1	60	SN			P	0033	50	0.6	E
0064	PALE	09	0101	0102	0110	N11	E25	7334	11	10.9	9	SF		3	E		20		
0065	PALE	09	0129	0130	0135	S17	E38	7335	11	11.9	6	SF		3	E		15		
0066	PALE	09	0158	0230	0236	S10	W20	7330	11	7.6	38	SF		3	E		35		
0067	PALE	09	0236	0237	0248	S10	W24	7330	11	7.3	12	SF		3	E		36		
0068	PALE	09	0227	0238	0249	S21	E41	7335	11	12.2	22	SF		3	E		31		
0069	SVTO	09	1434E	1435U	1444	S08	W30	7330	11	7.3	10D	SF C	1.8	2	E		18		F
0070	HOLL	09	1527	1532	1537	N08	W42	7336	11	6.5	10	SF		3	E		11		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)	
0071		09	1721	1731	1750	S07	W31	7330	11	7.4	29	SF	C 2.8				42		F
	HOLL	09	1721	1731	1750	S09	W33	7330	11	7.2	29	SF	C 2.8	3	E		37		F
	PALE	09	1727E	1731U	1750D	S05	W29	7330	11	7.5	23D	SF		2	E		47		F
		09	2038		2048	No Flare Patrol													
		09	2123		2137	No Flare Patrol													
0072		09	2251*	23022	2322	S10	W36	7330	11	7.2	31	SF					36		F
	PALE	09	2251	2304	2310	S11	W36	7330	11	7.2	19	SF		3	E		37		F
	LEAR	09	2302	2302	2335	S09	W36	7330	11	7.2	33	SF		3	E		36		
		09	2302		2335	No Flare Patrol													
0073		09	2355*	2356*	2420	S09	W37	7330	11	7.2	25	SF					33		
	PALE	09	2355	2356	2414	S11	W37	7330	11	7.2	19	SF		3	E		31		
	LEAR	10	0014	0016	0025	S07	W37	7330	11	7.2	11	SF		3	E		35		
0074	PALE	10	0043	0051	0112	S09	W34	7330	11	7.5	29	SF	B 6.0	2	E		39		
0075	LEAR	10	0625	0627	0636	S09	W40	7330	11	7.3	11	SF	B 8.9	3	E		34		F
0076		10	08063	0810	0820	S10	W41	7330	11	7.2	14	SF	C 1.3				46		EF
	LEAR	10	0806	0810	0820	S10	W41	7330	11	7.2	14	SF	C 1.3	3	E		63		FE
	SVTO	10	0809	0810	0820	S10	W41	7330	11	7.2	11	SF	C 1.3	3	E		28		F
0077		10	1109	1113	1124	S18	E19	7335	11	11.9	15	SF	B 8.4				16		F
	KANZ	10	1109	1113	1121	S18	E20	7335	11	12.0	12	SF		2	C				
	SVTO	10	1109	1113U	1127	S17	E18	7335	11	11.8	18	SF	B 8.4	3	E		16		F
0078	KANZ	10	1141	1145	1205	N10	E08	7334	11	11.1	24	SF		2	C				
0079		10	1149*	1153*	1220	S04	E81	7341B	11	16.5	31	SF	C 1.4				26		H
	KANZ	10	1149	1153	1221	S06	E79	7341B	11	16.4	32	SF		2	C				
	SVTO	10	1200	1206	1218	S03	E83	7341B	11	16.7	18	SF	C 1.4	3	E		26		H
0080	KANZ	10	1213	1225	1301	S18	E15	7335	11	11.6	48	SF		2	C				
		10	1922		1941	No Flare Patrol													
		10	2046		2111	No Flare Patrol													
0081		10	23454	23493	2410	N10	E00	7334	11	11.0	25	SN	C 2.2				101	1.2	EF1JTU2
	VORO	10	2345	2352	2421	N10	W02	7334	11	10.8	36	SN		2	C	2352	188	2.0	E1JT
	PALE	10	2346	2349	2414	N10	W01	7334	11	10.9	28	1F		3	E		113		U
	LEAR	10	2346	2350	2421	N11	E00	7334	11	11.0	35	1F	C 2.2	3	E		109		ZF
	WATU	10	2347	2349	2358	N07	W00	7334	11	11.0	11	SN			C	2349	70	0.7	E
	MITK	10	2349	2350	2357	N11	W01	7334	11	10.9	8	SN				2350	86	0.9	E
	HOLL	10	2349E	2351U	2352D	N12	E06	7334	11	11.4	3D	SF		1	E		41		
0082		11	00272	00302	0047	N10	W02	7334	11	10.9	20	SF					61	1.1	EF1JT
	VORO	11	0027	0032	0050	N10	W02	7334	11	10.9	23	SF		2	C	0032	108	1.1	E1JT
	LEAR	11	0029	0030	0044	N10	W01	7334	11	10.9	15	SF		3	E		14		F
0083	LEAR	11	0514	0515	0519	S18	E08	7335	11	11.8	5	SF	B 4.9	3	E		16		F
0084	LEAR	11	0739	0740	0745	S18	E07	7335	11	11.8	6	SF	B 4.8	3	E		47		F
0085		11	07481	08181	0843	N10	W04	7334	11	11.0	55	SN	B 5.4				160	2.3	EF
	LEAR	11	0748	0819	0848	N11	W04	7334	11	11.0	60	SF	B 5.4	3	E		92		F
	KAND	11	0749	0818	0838	N10	W04	7334	11	11.0	49	1B			P	0818	229	2.3	EF
	KANZ	11	0754E	0818U	0834D	N10	W03	7334	11	11.1	40D	SF		2	C				
		11	0941		0942	No Flare Patrol													
		11	1022		1029	No Flare Patrol													
0086	LEAR	12	0028	0039	0057	N04	E69	7337	11	17.2	29	SF	C 1.0	3	E		96		F
0087		12	01433	01457	0208	S07	W66	7330	11	7.1	25	SF					34		
	LEAR	12	0143	0145	0200	S07	W65	7330	11	7.2	17	SF		3	E		45		
	PALE	12	0146	0152	0215	S07	W66	7330	11	7.1	29	SF		3	E		23		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF				Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	CMD	Region	Mo							Day	(10-6 Disk)		Corr (Sq Deg)
0088		12	08273	0838	0856	N04	E62	7337	11	17.0	29	SF B 5.7					64	1.9	
	LEAR	12	0827	0838	0858	N04	E61	7337	11	16.9	31	SF B 5.7	3	E			46		
	KAND	12	0830		0855	N04	E64	7337	11	17.1	25	SF		P	0830		83	1.9	
0089	LEAR	12	0853	0857	0906	N08	W13	7334	11	11.4	13	SF		3	E		29		F
		12	1535		1601	No Flare Patrol													
0090		12	2039	20392	2052	N06	E56	7337	11	17.0	13	SF B 4.0					26		
	PALE	12	2039	2039	2048	N08	E57	7337	11	17.1	9	SF		3	E		26		
	HOLL	12	2039	2041	2055	N04	E56	7337	11	17.0	16	SF B 4.0	3	E			26		
0091	WATU	13	0131	0137	0242	S17	W15	7335	11	11.9	71	SN			C	0137	20	0.2	EZ
		13	1200		1304	No Flare Patrol													
		13	1316		1341	No Flare Patrol													
		13	1410		1426	No Flare Patrol													
0092	HOLL	13	1557	1609	1625	N05	E45	7337	11	17.0	28	SF		3	E		34		
		13	1851		2019	No Flare Patrol													
		13	2043		2126	No Flare Patrol													
		13	2128		2136	No Flare Patrol													
		13	2207		2317	No Flare Patrol													
		13	2319		2349	No Flare Patrol													
0093	HOLL	14	1606	1622	1743	S08	E29	7342	11	16.8	97	SF		3	E		76		F
0094	HOLL	14	2119	2129	2146	S17	W15	7339	11	13.7	27	SF		3	E		28		
		14	2355		2400	No Flare Patrol													
		15	0000		0021	No Flare Patrol													
		15	0040		0054	No Flare Patrol													
0095		15	1901	1915*	2052	S17	W53	7335	11	11.8	111	SF					34		K
	HOLL	15	1901	1915	2052	S17	W53	7335	11	11.8	111	SF		3	E		25		
	HOLL	15	1901	2040	2052	S17	W53	7335	11	11.8	111	SF			E		42		K
0096	LEAR	15	2243	2246	2324	S18	W57	7335	11	11.6	41	SF		3	E		22		F
0097	PALE	16	0008	0019	0022	S20	E79	7345	11	22.0	14	SF		3	E		37		
0098	PALE	16	0047	0050	0057	S20	E78	7345	11	22.0	10	SF		3	E		35		
0099	PALE	16	0147	0202	0224	S19	E77	7345	11	21.9	37	SF C 4.0	3	E		82			
0100	PALE	16	0213	0213	0225	S18	W56	7335	11	11.8	12	SF		3	E		16		
		16	1333		1349	No Flare Patrol													
		16	1425		1447	No Flare Patrol													
		16	1626		1647	No Flare Patrol													
0101	HOLL	16	1658	1702	1722	S15	W21	7341	11	15.1	24	SF		3	E		20		
0102	HOLL	16	1718	1724	1731	S25	E69	7345	11	22.1	13	SF		3	E		10		
		16	1759		1805	No Flare Patrol													
0103	HOLL	16	1831	1833	1840	S17	W67	7335	11	11.7	9	SF		3	E		21		
0104	HOLL	16	1953	2001	2015	S25	E68	7345	11	22.1	22	SF C 2.1	3	E		14			
0105		16	2130	2137	2203	S24	E72	7345	11	22.4	33	1F C 3.7					92		U
	HOLL	16	2130	2137	2203	S26	E69	7345	11	22.2	33	SF C 3.7	3	E		77		U	
	PALE	16	2130E	2137U	2210D	S23	E74	7345	11	22.6	40D	1F	3	E		107		U	
0106	PALE	16	2201	2205	2210	S16	W22	7341	11	15.2	9	SF		3	E		14		
		16	2300		2323	No Flare Patrol													

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Corr (Sq Deg)	Remarks
						Region	Mo	Day								(10-6 Disk)			
0107	LEAR	16	2304	2307	2316	S05	E85	7346	11	23.3	12	SF		3	E		16		
0108	PALE	16	2326	2333	2339	S02	E90	7346	11	23.7	13	SF	C 3.5	3	E		62		
		16	2329		2349	No Flare Patrol													
0109		17	00083	00111	0016	S16	W24	7341	11	15.2	8	SF					14		
	LEAR	17	0008	0011	0016	S15	W25	7341	11	15.1	8	SF		3	E		19		
	PALE	17	0011	0012	0016	S16	W23	7341	11	15.3	5	SF		3	E		10		
0110		17	00541	0056*	0108	S04	E86	7346	11	23.5	14	SF	C 1.2				31		DHJ
	VORO	17	0054	0056	0102	S05	E88	7346	11	23.6	8	SF		2	C	0056	27		DJH
	LEAR	17	0055	0107	0111	S05	E85	7346	11	23.4	16	SF	C 1.2	3	E		31		
	PALE	17	0058E	0106	0110	S03	E86	7346	11	23.5	12D	SF		3	E		36		
0111		17	0114	0123	0139	S16	W25	7341	11	15.1	25	SF					35		
	LEAR	17	0114	0123	0139	S16	W25	7341	11	15.1	25	SF		3	E		35		
	PALE	17	0115E	0123	0140D	S16	W25	7341	11	15.1	25D	SF		3	E		35		
0112		17	01181	01182	0122	S04	E85	7346	11	23.4	4	SF					16		
	PALE	17	0118	0118	0121	S03	E86	7346	11	23.5	3	SF		3	E		13		
	LEAR	17	0119	0120	0123	S05	E84	7346	11	23.3	4	SF		3	E		19		
0113		17	0208	02094	0220	S18	W69	7335	11	11.8	12	SF					22		
	PALE	17	0208	0209	0220	S18	W69	7335	11	11.8	12	SF		3	E		28		
	LEAR	17	0208	0213	0221	S17	W69	7335	11	11.8	13	SF		3	E		15		
0114	WATU	17	0405E	0405	0521	S15	W27	7341	11	15.1	76D	SN			C	0405	20	0.2	E
0115	KANZ	17	0801	0809	0825	S16	E54	7344	11	21.4	24	SF		2	C				
0116	KANZ	17	0821	0833	0837	S18	E72	7345	11	22.8	16	SF		2	C				
0117	KANZ	17	0857	0857	0905	S16	W71	7335	11	12.0	8	SF		2	C				
		17	1259		1329	No Flare Patrol													
0118	HOLL	17	1600	1601	1605	S15	W33	7341	11	15.2	5	SF		3	E		15		F
0119	HOLL	17	1717	1719	1746	S31	E71		11	23.3	29	SF	C 1.2	3	E		52		
0120	HOLL	17	1926	2125	2148	S15	W36	7341	11	15.1	142	SF		3	E		33		F
0121	HOLL	17	2012	2017	2051	S07	E21	7340	11	19.4	39	SF		3	E		30		
0122	HOLL	17	2046	2046	2056	S25	E54	7345	11	22.0	10	SF							

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0128	KANZ	18	1213	1213	1221	S11	W17	7342	11	17.2	8	SF		2	C				
0129	HOLL	18	1902	1938	2331	S24	E46	7345	11	22.3	269	2N M	1.3	3	E		305		FU
0130	HOLL	18	1959	1959	2007	S16	W48	7341	11	15.2	8	SF		3	E		11		
0131	HOLL	18	2141	2153	2239	N05	W24	7337	11	17.1	58	SF		3	E		97		F
0132	HOLL	18	2239	2241	2248	S07	E60	7346	11	23.4	9	SF		3	E		13		
0133	LEAR	18	2304	2304	2324	S16	W50	7341	11	15.2	20	SF					20		F
	HOLL	18	2304	2304	2330	S15	W50	7341	11	15.2	26	SF		3	E		20		F
	HOLL	18	2304	2308	2319	S18	W50	7341	11	15.1	15	SF		3	E		19		F
		18	2333		2345	No Flare Patrol													
		18	2347		2349	No Flare Patrol													
		18	2351		2400	No Flare Patrol													
		19	0215		0224	No Flare Patrol													
		19	0233		0237	No Flare Patrol													
		19	0247		0256	No Flare Patrol													
		19	0312		0314	No Flare Patrol													
0134	SVTO	19	10181	1019	1026	S08	E56	7346	11	23.6	8	SF	B 9.8				19		
	KANZ	19	1018	1019	1024	S06	E54	7346	11	23.5	6	SF	B 9.8	3	E		19		
	KANZ	19	1019	1019	1027	S10	E58	7346	11	23.8	8	SF		2	C				
		19	1827		1832	No Flare Patrol													
0135	HOLL	19	2018*	2026*	2124	S26	E36	7345	11	22.6	66	1N C	9.9				214		U
	RAMY	19	2018	2026	2149	S28	E38	7345	11	22.8	91	2B C	9.9	3	E		414		U
	RAMY	19	2054	2058	2100	S25	E33	7345	11	22.4	6	SF		3	E		14		
0136	HOLL	19	2237	2241	2254	S08	E47	7346	11	23.5	17	SF		3	E		20		
0137	LEAR	19	2328	2341	2350	S22	E35	7345	11	22.7	22	SF	C 5.6	3	E		56		F
		19	2347		2348	No Flare Patrol													
		19	2350		2400	No Flare Patrol													
		20	0000		0011	No Flare Patrol													
0138	LEAR	20	0026	0035	0046	S10	W09	7340	11	19.3	20	SF		3	E		48		
0139	VORO	20	0112	0117	0140	S16	E42	7345A	11	23.2	28	SF		2	C	0117	72	1.1	EIJ
0140	KANZ	20	1110	1118	1214	N11	W25		11	18.6	64	SF		2	C				
		20	1815		1932	No Flare Patrol													
		20	2036		2047	No Flare Patrol													
		20	2130		2134	No Flare Patrol													
		20	2233		2306	No Flare Patrol													
		20	2308		2348	No Flare Patrol													
		20	2350		2351	No Flare Patrol													
0141	SVTO	21	07091	0711	0725	S17	W84	7341	11	14.9	16	SF	C 5.0				38		
	LEAR	21	0709	0711	0724	S16	W80	7341	11	15.2	15	SF		3	E		41		
	LEAR	21	0710	0711	0726	S18	W89	7341	11	14.5	16	SF	C 5.0	3	E		36		
0142	KANZ	21	0935	0935	0947	S21	E12	7345	11	22.3	12	SF		2	C				
0143	SVTO	21	1239	1239	1246	S03	E29	7346	11	23.7	7	SF		3	E		16		
0144	HOLL	21	1550E	1554U	1611D	S22	E09	7345	11	22.3	21D	SF	C 1.5	2	E		62		F
		21	1600		1608	No Flare Patrol													
		21	1647		1657	No Flare Patrol													
0145	HOLL	21	1729	1736	1744	S25	E08	7345	11	22.3	15	SF		2	E		27		
0146	HOLL	21	1858	1903	1911	S24	E11	7345	11	22.6	13	SF		3	E		19		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)	
0147	HOLL	21	1959	2000	2037	S08	E21	7346	11	23.4	38	SF	C 1.2	3	E		29		F
0148	LEAR	21	2211	2211	2220	S07	W63	7342	11	17.2	9	SF		3	E		11		
0149	LEAR	22	0333	0338	0345	S25	E06	7345	11	22.6	12	SF		3	E		17		F
0150	LEAR	22	0347	0351	0359	S08	E01	7347	11	22.2	12	SF	C 1.2	3	E		37		F
0151		22	09013	09044	0914	S26	W00	7345	11	22.4	13	SF					21		
	LEAR	22	0901	0908	0911	S25	W01	7345	11	22.3	10	SF		3	E		21		
	KANZ	22	0904	0904	0916	S26	W00	7345	11	22.4	12	SF		2	C				
0152	KANZ	22	0908	0908	0912	S09	W01	7347	11	22.3	4	SF		2	C				
0153		22	09527	1000	1017	S24	E04	7345	11	22.7	25	SF					23		
	KANZ	22	0952	1000	1012	S25	E03	7345	11	22.6	20	SF		2	C				
	SVTO	22	0959	0959U	1022	S22	E04	7345	11	22.7	23	SF		2	E		23		
0154	KANZ	22	1016	1016	1028	S07	E14	7346	11	23.5	12	SF		2	C				
0155		22	11391	11403	1152	N10	E80	7348	11	28.5	13	SN	C 3.3				68		
	SVTO	22	1139	1143	1145D	N12	E81	7348	11	28.6	60	SN	C 3.3	2	E		68		
	KANZ	22	1140	1140	1152	N09	E80	7348	11	28.5	12	SN		2	C				
0156	KANZ	22	1304	1304	1316	N10	E84	7348	11	28.8	12	SN		2	C				
0157	KANZ	22	1320	1320	1324	S06	E14	7346	11	23.6	4	SF		2	C				
			22	1357	1358	No Flare Patrol													
			22	1935	1945	No Flare Patrol													
			22	2010	2129	No Flare Patrol													
			22	2131	2133	No Flare Patrol													
			22	2231	2347	No Flare Patrol													
0158	LEAR	22	2258	2308	2326	N11	E76	7348	11	28.7	28	2N	M 1.6	3	E		297		
0159	LEAR	22	2350	2354		N12	E73	7348	11	28.5		1F		3	E		144		
			22	2350	2352	No Flare Patrol													
0160	LEAR	23	0004	0009	0014	S07	W11	7347	11	22.2	10	SF		3	E		21		
0161	LEAR	23	0009	0011	0014	N12	E73	7348	11	28.5	5	SF		3	E		32		
0162	LEAR	23	0059	0101	0106	N10	E74	7348	11	28.6	7	SF		3	E		39		
0163	LEAR	23	0145	0147	0203	S09	W77	7342	11	17.3	18	SF		3	E		21		
0164	LEAR	23	0158	0158	0210	N12	E72	7348	11	28.5	12	SF		3	E		60		
0165	LEAR	23	0309	0312	0319	N10	E75	7348	11	28.8	10	SF		3	E		50		
0166	LEAR	23	0319	0320	0331	N10	E75	7348	11	28.8	12	SF		3	E		36		
0167	LEAR	23	0331	0344	0355	N09	E74	7348	11	28.7	24	1F	C 8.5	3	E		195		F
0168	LEAR	23	0356	0445	0445D	S09	W80	7342	11	17.1	49D	SF		3	E		79		
0169		23	04291	04323	0449	S08	W14	7347	11	22.1	20	SN	C 9.1				86	1.0	EFU
	WATU	23	0429	0434	0443	S08	W14	7347	11	22.1	14	SN			C	0434	50	0.5	E
	LEAR	23	0430	0432	0455	S09	W13	7347	11	22.2	25	SN	C 9.1	3	E		63		FE
	MITK	23	0430	0435	0449	S08	W14	7347	11	22.1	19	SB				0435	146	1.6	U
0170	TACH	23	0500E		0624	S06	W15	7347	11	22.1	84D	1N		3	C	0500	204	2.2	E
0171		23	05241	0532*	0622	S08	W80	7342	11	17.2	58	SN					38		D
	TACH	23	0524	0532	0622	S06	W80	7342	11	17.2	58	SB		3	C	0532	36		D
	LEAR	23	0525	0559	0623	S10	W81	7342	11	17.1	58	SF		3	E		41		

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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
0172	LEAR	23	0559	0610	0616	N11	E70	7348	11	28.5	17	SF		3	E		59		
0173		23	0826*	0838U	0849	S10	W80	7342	11	17.3	23	SF					49		
	LEAR	23	0826	0838U	0848	S10	W82	7342	11	17.2	22	SF		3	E		61		
	SVTO	23	0838	0838U	0850	S09	W78	7342	11	17.5	12	SF		3	E		37		
0174		23	08442	08503	0905	N10	E72	7348	11	28.8	21	1N C	5.8				112		F
	SVTO	23	0844	0852	0905	N11	E70	7348	11	28.6	21	1F		3	E		100		F
	LEAR	23	0845	0853	0905	N09	E71	7348	11	28.7	20	1N C	5.8	3	E		130		F
	BUCA	23	0846	0850	0905	N11	E75	7348	11	29.0	19	1N			C	0850	107		
0175	SVTO	23	0912	0915	0926	S07	W17	7347	11	22.1	14	SF		3	E		23		F
0176	SVTO	23	0913	0915	0921	N11	E68	7348	11	28.5	8	SF		3	E		34		
0177	SVTO	23	0927	0929	0940	N11	E72	7348	11	28.8	13	SF		3	E		46		F
0178		23	09296	09452	1009	S08	W16	7347	11	22.2	40	1F C	5.0				140	2.3	F
	SVTO	23	0929	0946	1012	S09	W16	7347	11	22.2	43	SF		3	E		97		F
	LEAR	23	0931	0947	1006	S09	W16	7347	11	22.2	35	1F C	5.0	3	E		108		F
	KANZ	23	0933E	0945	1017	S08	W16	7347	11	22.2	44D	1F		2	C				
	BUCA	23	0935	0947	1000	S07	W17	7347	11	22.1	25	1N			C	0947	215	2.3	
0179		23	0933	09352	0944	S09	W79	7342	11	17.5	11	SF					36		
	SVTO	23	0933	0935	0940	S09	W79	7342	11	17.5	7	SF		3	E		26		
	LEAR	23	0933	0935	0946	S10	W83	7342	11	17.2	13	SF		3	E		45		
	KANZ	23	0933E	0937	0945	S08	W76	7342	11	17.7	12D	SN		2	C				
0180		23	09455	09503	1012	S16	W16	7345	11	22.2	27	SF					11		
	KANZ	23	0945	0953	1013	S16	W16	7345	11	22.2	28	SF		2	C				
	SVTO	23	0950	0950	1011	S16	W16	7345	11	22.2	21	SF		3	E		11		
0181	RAMY	23	1336	1336	1342	S08	W19	7347	11	22.1	6	SF		3	E		19		F
0182		23	1341	1409	1420	N11	E72	7348	11	29.0	39	SF					30		F
	RAMY	23	1341	1409	1419	N11	E72	7348	11	29.0	38	SF		3	E		20		
	SVTO	23	1401E	1401U	1421	N11	E72	7348	11	29.0	20D	SF		2	E		40		F
0183	RAMY	23	1357	1359	1402	S08	W89	7342	11	16.9	5	SF C	4.0	3	E		15		
0184	RAMY	23	1410	1416U	1426	S08	W19	7347	11	22.2	16	SF		3	E		41		F
0185	RAMY	23	1428	1437	1458	S08	W19	7347	11	22.2	30	SF		3	E		20		F
0186		23	1742	17441	1800	S08	W20	7347	11	22.2	18	SF C	2.4				21		F
	RAMY	23	1742	1744	1800	S08	W20	7347	11	22.2	18	SF C	2.4	3	E		17		F
	PALE	23	1743E	1745	1805D	S08	W20	7347	11	22.2	22D	SF C	2.4	3	E		25		F
0187		23	19231	19283	1944	S09	W20	7347	11	22.3	21	SF C	4.3				46		F
	PALE	23	1923	1931	1952	S09	W20	7347	11	22.3	29	SF C	4.3	3	E		70		
	RAMY	23	1924	1928	1937	S09	W21	7347	11	22.2	13	SF		3	E		23		F
0188	PALE	23	2018	2029U	2101D	S08	W89	7342	11	17.2	43D	SF M	4.4	2	E		43		
		23	2251		2330	No Flare Patrol													
0189	LEAR	23	2354	2357		N11	E60	7348	11	28.5		SF		3	E		26		
0190	LEAR	24	0534	0534	0547	S09	W83	7342	11	18.0	13	SF C	1.8	3	E		35		
0191	LEAR	24	0653	0653	0658	N12	E56	7348	11	28.5	5	SF		3	E		25		
0192		24	08272	08281	0834	S08	W30	7347	11	22.1	7	SF					46		
	LEAR	24	0827	0828	0833	S07	W29	7347	11	22.2	6	SF		3	E		46		
	KANZ	24	0829	0829	0835	S08	W30	7347	11	22.1	6	SF		2	C				
0193	KANZ	24	0927	0927	0947	S15	E73	7351	11	29.9	20	SF		2	C				
0194	KANZ	24	0927	0935	0943	S13	W42	7347	11	21.2	16	SF		2	C				

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF				Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
						Lat	CMD	Region	Mo						Day	Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
0195	KANZ	24	1107	1107	1127	S24	W28	7345	11	22.3	20	SF		2	C				
0196	KANZ	24	1303	1319	1339D	S18	W41		11	21.4	36D	SF		2	C				
0197	KANZ	24	1307	1307	1319	S05	W05	7346	11	24.2	12	SF		2	C				
0198	PALE	24	2005	2005	2011	N09	E52	7348	11	28.7	6	SF		3	E		14		
		24	2104		2115	No Flare Patrol													
0199	PALE	24	2214	2215	2219	S17	E64	7351	11	29.8	5	SF		3	E		16		
		24	2316		2333	No Flare Patrol													
		24	2335		2337	No Flare Patrol													
0200		25	02392	02399	0256	N14	E54	7348	11	29.2	17	SF	C 2.3				31	F	
	LEAR	25	0239	0239	0302	N14	E53	7348	11	29.1	23	SF	C 2.3	3	E		38	F	
	PALE	25	0241	0248	0249	N14	E54	7348	11	29.2	8	SF		3	E		24	F	
0201	HOLL	25	1619	1634	1659	N10	E41	7348	11	28.8	40	SF		3	E		33		
0202	LEAR	26	0119	0119	0147	N10	E41	7348	11	29.1	28	SF	C 1.6	3	E		37	F	
0203		26	05274	05332	0610	N11	E37	7348	11	29.0	43	1B					154	EU	
	TACH	26	0527	0533	0605	N12	E34	7348	11	28.8	38	1B		3	C	0533	194	U	
	MITK	26	0531	0535	0614	N10	E40	7348	11	29.2	43	SN				0535	113	E	
0204		26	12395	12434	1309	N08	E30	7348	11	28.8	30	SF	C 2.8				36	F	
	KANZ	26	1239	1243	1315	N06	E31	7348	11	28.8	36	SF		2	C				
	KANZ	26	1243	1247	1322	N11	E29	7348	11	28.7	39	SF		2	C				
	SVTO	26	1244	1246	1310	N10	E31	7348	11	28.8	26	SF	C 2.8	3	E		57	F	
	RAMY	26	1244	1247	1250	N07	E29	7348	11	28.7	6	SF		3	E		14		
0205	KANZ	26	1303	1303	1303	S09	W38	7346A	11	23.7	6	SF		2	C				
0206	HOLL	26	1806	1810	1821	S21	E36	7350	11	29.5	15	SF		3	E		25		
0207	HOLL	26	2143	2145	2229	N09	E28	7348	11	29.0	46	SF	C 1.8	3	E		29	F	
0208	LEAR	26	2340	2341	2350	N09	E27	7348	11	29.0	10	SF		3	E		18	F	
0209	LEAR	27	0554	0555	0605	N18	E20	7352	11	28.8	11	SF		3	E		21	F	
0210	LEAR	27	0611	0615	0628	N12	E25	7348	11	29.1	17	SF		3	E		28	F	
0211	KANZ	27	1228	1244	1332	N11	E19	7348	11	28.9	64	1F		2	C				
0212	KANZ	27	1304	1304	1308	N20	E18	7352	11	28.9	4	SF		2	C				
		27	1341		1359	No Flare Patrol													
0213	HOLL	27	1400E	1403U	1420	N11	E18	7348	11	28.9	20								

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0219		28	08316	0831*	0859	N12	E11	7348	11	29.2	28	SF	B 8.3				14		F
	KANZ	28	0831	0831	0859	N11	E13	7348	11	29.3	28	SF		2	C				
	SVTO	28	0831	0831	0902	N12	E08	7348	11	28.9	31	SF	B 8.3	3	E		11		F
	LEAR	28	0837	0849	0857	N12	E12	7348	11	29.3	20	SF		3	E		16		F
0220		28	09412	09421	0947	N12	E09	7348	11	29.1	6	SF	C 1.2				16		F
	LEAR	28	0941	0942	0948	N13	E09	7348	11	29.1	7	SF	C 1.2	3	E		17		F
	SVTO	28	0942	0943	0947	N11	E06	7348	11	28.8	5	SF		3	E		15		F
	KANZ	28	0943	0943	0947	N12	E11	7348	11	29.2	4	SF		2	C				
0221		28	10562	1059	1118	S15	E16	7351	11	29.7	22	SF	B 9.5				29		FU
	SVTO	28	1056	1059	1118	S14	E15	7351	11	29.6	22	SF	B 9.5	3	E		29		UF
	KANZ	28	1058		1058D	S16	E16	7351	11	29.7	22D	SF		2	C				
0222	SVTO	28	1212	1213	1242	N12	E06	7348	11	29.0	30	SF		3	E		27		F
0223	SVTO	28	1212	1214	1219	S10	W68	7346	11	23.4	7	SF	C 1.5	3	E		33		F
		28	1244		1255	No Flare Patrol													
0224		28	1355*	1359*	1419	N12	E08	7348	11	29.2	24	SF					18		F
	SVTO	28	1355	1359	1408	N11	E04	7348	11	28.9	13	SF		3	E		24		F
	RAMY	28	1407	1412	1430	N12	E09	7348	11	29.3	23	SF		3	E		11		
	KANZ	28	1408E		1408D	N13	E10	7348	11	29.3	23D	SF		2	C				
		28	1456		1510	No Flare Patrol													
0225		28	16051	16061	1657	N11	E04	7348	11	29.0	52	SF	C 3.6				52		EF
	HOLL	28	1605	1606	1657	N11	E04	7348	11	29.0	52	SF	C 3.6	3	E		49		FE
	RAMY	28	1606	1607	1614D	N11	E05	7348	11	29.0	8D	SF	C 3.6	3	E		54		F
0226	HOLL	28	1903	1934	2000	N11	E05	7348	11	29.2	57	SN	C 1.8	3	E		87		EF
0227	HOLL	28	1959	2000	2006	S08	W72	7346	11	23.4	7	SF		3	E		63		H
0228		28	2001	2017*	2134	N12	E06	7348	11	29.3	93	1N	C 2.8				142		FK
	HOLL	28	2001	2017	2134	N12	E06	7348	11	29.3	93	1N	C 2.8	3	E		148		F
	HOLL	28	2001	2048	2134	N12	E06	7348	11	29.3	93	1N			E		137		K
0229	HOLL	28	2228	2234	2237	S16	E07	7351	11	29.5	9	SF		3	E		15		
		28	2344		2400	No Flare Patrol													
		29	0000		0001	No Flare Patrol													
		29	0037		0049	No Flare Patrol													
0230	LEAR	29	0057	0057	0114	N20	E02	7352	11	29.2	17	SF	B 7.7	3	E		24		
0231	LEAR	29	0530	0532	0541	N12	W05	7348	11	28.8	11	SF	B 7.5	3	E		22		F
0232	LEAR	29	1029E	1031	1033	N08	W12	7348	11	28.5	4D	SF		2	E		57		F
0233		29	1230	1233	1250	S16	E00	7351	11	29.5	20	1B	M 1.4				270	4.1	EF
	RAMY	29	1230	1233	1250	S16	W01	7351	11	29.4	20	1N	M 1.4	3	E		159		FE
	ATHN	29	1232E	1233	1239D	S17	E02	7351	11	29.7	7D	1B		3	V	1233	382	4.1	
0234	HOLL	29	1702	1708	1812	N12	W07	7348	11	29.2	70	SF	C 1.2	3	E		30		F
0235	HOLL	29	1707	1717	1817	N20	W09	7352	11	29.0	70	SF		3	E		47		F
		29	1840		1925	No Flare Patrol													
0236	HOLL	29	2000	2009	2034	N20	W09	7352	11	29.1	34	SF	C 1.1	3	E		23		
		29	2228		2240	No Flare Patrol													
		29	2325		2343	No Flare Patrol													
0237	LEAR	29	2339	2343	2422	N21	W15	7352	11	28.8	43	SF		2	E		38		F
0238	LEAR	29	2343	2349	2354	N12	W10	7348	11	29.2	11	SF	C 2.0	2	E		28		

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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)	
0239		30	0022	0024	0035D	N10	W15	7348	11	28.9	13D	SF	C 1.4				49		
	PALE	30	0016E	0023U	0034D	N10	W15	7348	11	28.9	18D	SF		2	E		43		
	LEAR	30	0022	0024	0035D	N11	W15	7348	11	28.9	13D	SF	C 1.4	2	E		55		
0240	LEAR	30	0649	0659	0713	N19	W18	7352	11	28.9	24	SF		3	E		53		F
0241	LEAR	30	0649	0700	0708	N12	W14	7348	11	29.2	19	SF	C 1.4	3	E		16		F
0242		30	0932	0932	0946	N12	W16	7348	11	29.2	14	SF					35		F
	LEAR	30	0932	0932	0944	N12	W16	7348	11	29.2	12	SF		3	E		35		F
	KANZ	30	0932	0932	0948	N12	W15	7348	11	29.3	16	SF		2	C				
0243		30	1100	1120	1146	N20	W22	7352	11	28.8	46	SF					15		F
	KANZ	30	1100	1120	1144	N20	W21	7352	11	28.8	44	SF		2	C				
	SVTO	30	1116E	1127U	1148	N19	W22	7352	11	28.8	32D	SF		2	E		15		F
0244		30	1245	1248	1319	N19	W22	7352	11	28.8	34	SF	C 5.5				45		F
	RAMY	30	1245	1248	1304	N19	W21	7352	11	28.9	19	SF	C 5.5	3	E		45		F
	KANZ	30	1258E	1258U	1334	N19	W22	7352	11	28.9	36D	SF		2	C				
0245		30	1250	1306	1320	S22	W04	7350	11	30.2	30	SF					18		F
	RAMY	30	1250	1306	1313	S22	W04	7350	11	30.2	23	SF		3	E		18		F
	KANZ	30	1258E	1306	1326	S21	W05	7350	11	30.1	28D	SF		2	C				
0246	RAMY	30	1511	1513	1518	N13	W19	7348	11	29.2	7	SF	C 1.4	4	E		35		F
0247		30	1935E	1935U	2006	S05	E14	7353	12	1.9	31D	1B	M 2.6				112		F
	RAMY	30	1935E	1935U	2006	S05	E14	7353	12	1.9	31D	1N	M 2.6	3	E		111		F
	HOLL	30	1937E	1937U	2223D	S05	E14	7353	12	1.9	166D	1B	M 2.6	1	E		113		F
		30	2010		2034	No Flare Patrol													
		30	2041		2122	No Flare Patrol													
		30	2124		2133	No Flare Patrol													
		30	2225		2400	No Flare Patrol													

"Remarks"

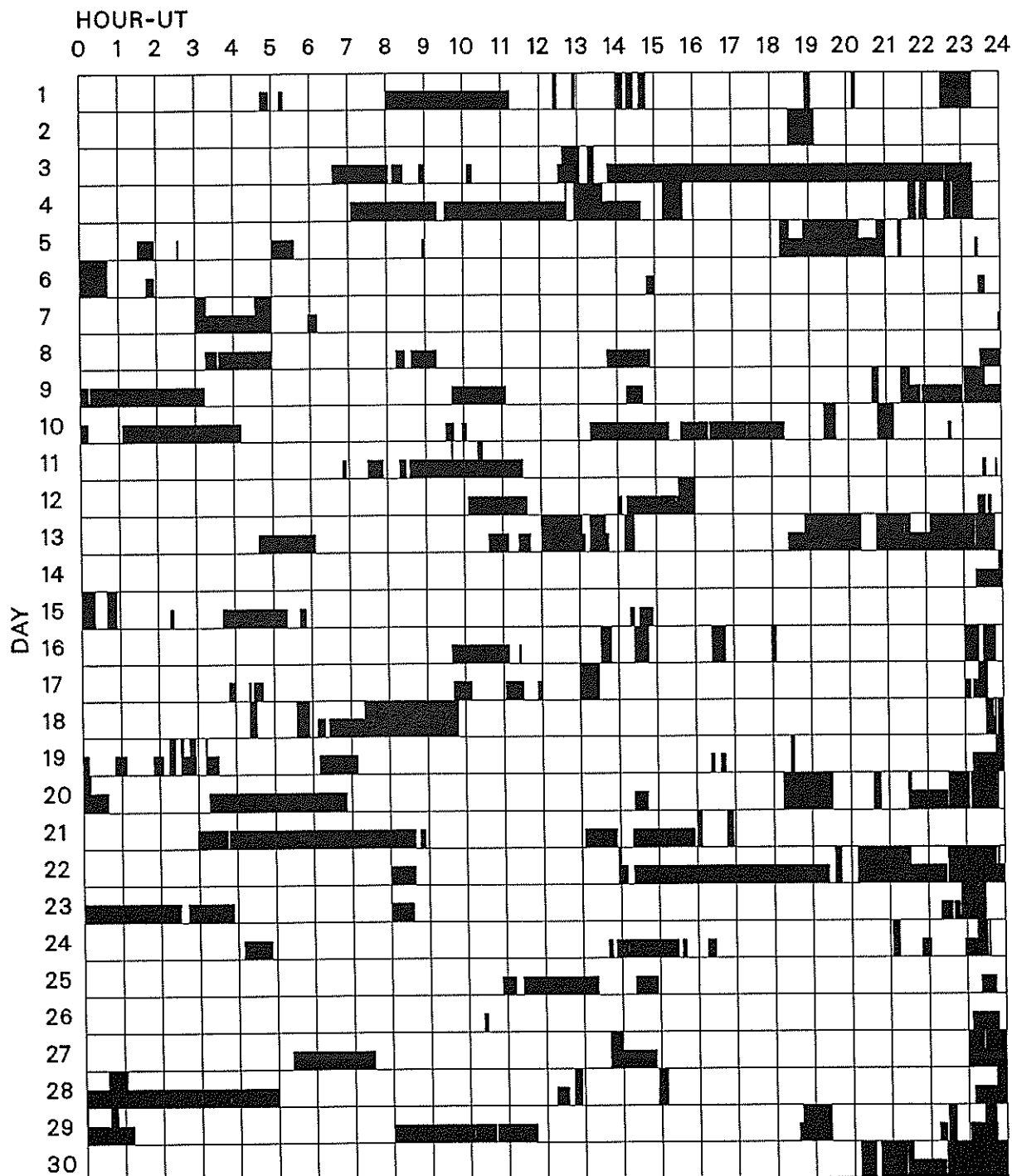
A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H =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

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 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

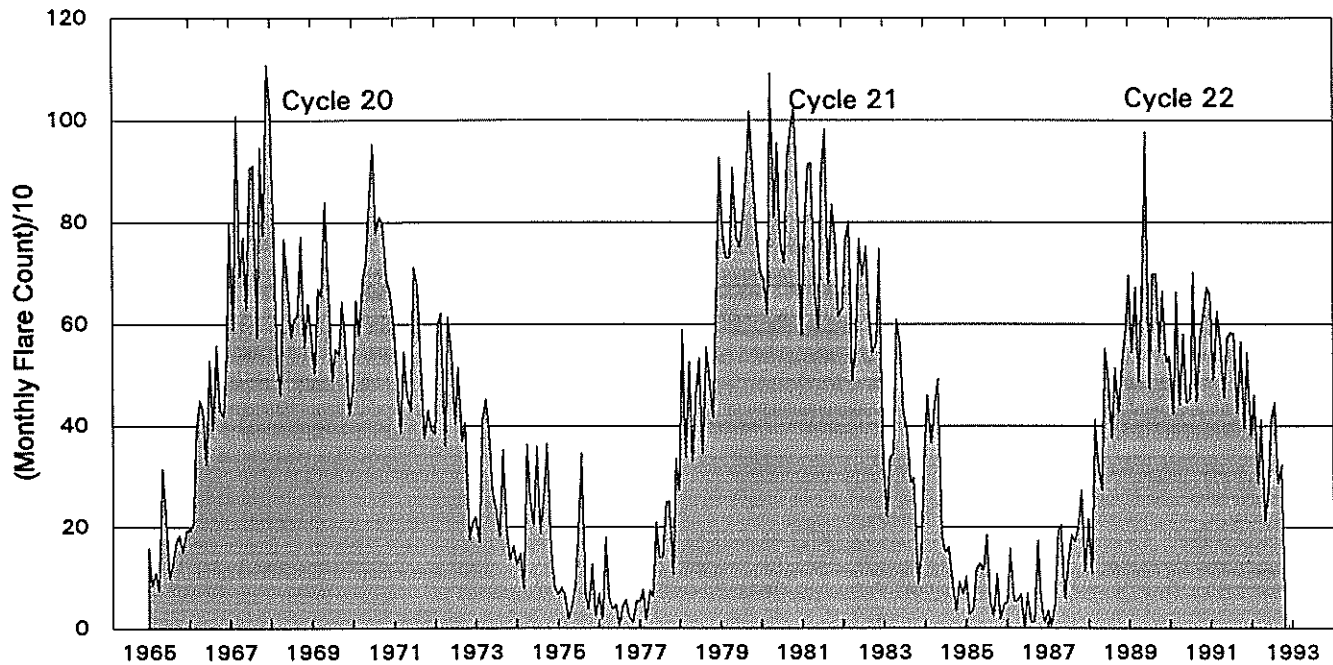
Holloman
Kandilli
Kanzelhoehe

Kharkov
Learmonth
Mitaka

Palehau
Peking
Ramey
San Vito

Tashkent
Voroshilov
Watukosek
Yunnan

Monthly Counts of Grouped Solar Flares



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	699	547	665	526	7677
1990	536	424	664	442	580	445	454	703	449	574	619	672	6562
1991	659	491	625	570	458	574	582	581	425	565	396	544	6470
1992	380	462	287	412	214	271	413	447	287	324	247		3744

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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Nov 92

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

Outstanding Occurrences

NOVEMBER 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	100	GORK	44 NS	0600.0E		180.0D		15.0		
	127	TORN	44 NS	0620.0E		460.0D		250.0		V=2
	204	IZMI	44 NS	0700.0E		300.0D	300.0	90.0		
	260	ONDR	44 NS	0930.0E	1128.0		350.0			
	260	ONDR	44 NS	0930.0E	1018.5	150.0D	175.0			
	245	SVTO	44 NS	0942.0E	1129.0U	275.0D	85.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1140.0E	1215.0	244.0D	100.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1255.0E		545.0D		35.0		
	280	CUBA	44 NS	1255.0E		545.0D		29.0		
	245	PALE	44 NS	2056.0E	2212.0	402.0D	71.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2105.0E	2247.0	600.0D	200.0	100.0		SL
	100	HIRA	44 NS	2105.0E	2247.0	600.0D	600.0	300.0		SL
	245	LEAR	44 NS	2156.0E	0204.0	711.0D	120.0			QL=4 ST=2 TYP=1
	17000	NOBE	1 S	0117.2	0117.3	0.5	30.0			0,80,35GHZ:0
	9100	GORK	1 S	0648.3	0649.2	2.7	5.0			
	2950	GORK	20 GRF	0651.7	0651.7	12.0	7.0			
	204	IZMI	7 C	0748.0	0749.0	3.0		150.0		
	9100	GORK	21 GRF	1141.2	1149.4	18.8D	22.0			
	8800	SVTO	4 S/F	1143.0E	1144.0	3.0D	65.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	1143.5	1144.6	5.5	58.0			
	15400	SVTO	8 S	1144.0E	1144.0	1.0D	81.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1901.0E	1901.0	U	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1950.0E	1950.0	1.0D	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2000.0E	2001.0	2.0D	110.0			QL=4 ST=2 TYP=3
02	245	SVTO	44 NS	0541.0E	0719.0	581.0D	80.0			QL=4 ST=2 TYP=1
	100	GORK	44 NS	0600.0E		180.0D		45.0		
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	204	IZMI	43 NS	0700.0		300.0		70.0		
	260	ONDR	44 NS	0930.0E	1133.5		142.0			
	260	ONDR	44 NS	0930.0E	1054.5	150.0D	168.0			
	127	TORN	44 NS	1140.0E		200.0D		50.0		V=2
	200	HIRA	44 NS	2105.0E	0330.0	600.0D	70.0	30.0		ML
	100	HIRA	44 NS	2105.0E	0515.0	600.0D	150.0	30.0		WL
	245	PALE	8 S	0204.0E	0204.0	U	130.0			QL=2 ST=2 TYP=3
	8800	LEAR	49 GB	0238.0E	0301.0	162.0D	17000.0			QL=4 ST=2 TYP=7
	4995	LEAR	49 GB	0238.0E	0307.0	162.0D	8700.0			QL=4 ST=2 TYP=7
	17000	NOBE	28 PRE	0238.2	0242.9	5.8	25.0			L
	2840	PEKG	47 GB	0240.0	0248.5U	62.0	591.2D			
	8800	PALE	49 GB	0242.0E	0301.0	47.0D	18000.0			QL=4 ST=2 TYP=7
	15400	LEAR	49 GB	0242.0E	0253.0	158.0D	43000.0			QL=4 ST=2 TYP=7
	35000	NOBE	28 PRE	0244.0	0249.0	5.0	84.0			L
	4995	PALE	49 GB	0244.0E	0307.0	45.0D	7300.0			QL=2 ST=2 TYP=7
	2695	LEAR	49 GB	0244.0E	0253.0	63.0D	5000.0			QL=4 ST=2 TYP=7
	17000	NOBE	30 PBI	0244.0	0331.0	60.0	175.0			O
	17000	NOBE	49 GB	0244.0	0253.9	46.0	30000.0			R
	2695	PALE	49 GB	0245.0E	0252.0	44.0D	3900.0			QL=4 ST=2 TYP=7
	15400	PALE	49 GB	0245.0E	0254.0	41.0D	52000.0			QL=4 ST=2 TYP=7
	1415	LEAR	49 GB	0245.0E	0310.0	58.0D	18000.0			QL=4 ST=2 TYP=7
	245	LEAR	49 GB	0248.0E	0249.0	19.0D	690.0			QL=2 ST=2 TYP=7
	245	PALE	49 GB	0248.0E	0249.0	14.0D	770.0			QL=2 ST=2 TYP=6
	410	LEAR	49 GB	0248.0E	0253.0	26.0D	640.0			QL=4 ST=2 TYP=7
	610	LEAR	49 GB	0248.0E	0253.0	30.0D	1100.0			QL=4 ST=2 TYP=7
	1415	PALE	49 GB	0248.0E	0310.0	41.0D	24000.0			QL=4 ST=2 TYP=7
	200	HIRA	46 C	0248.2	0248.8	10.0	3500.0	250.0		WL
	410	PALE	49 GB	0249.0E	0253.0	13.0D	840.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	0249.0E	0253.0	16.0D	650.0			QL=4 ST=2 TYP=6
	35000	NOBE	30 PBI	0249.0	0324.0	60.0	335.0			O
	35000	NOBE	49 GB	0249.0	0253.9	35.0	42500.0			L-R
	100	HIRA	46 C	0249.2	0254.0	6.5	500.0	120.0		WL
	80000	NOBE	29 PBI	0249.2	0319.0	35.0	160.0			O
	80000	NOBE	49 GB	0249.2	0253.9	29.8	8040.0			L
	2840	PEKG	30 PBI	0342.0		158.0	26.9			
	2840	PEKG	3 S	0406.0	0411.4	14.0	235.6			
	35000	NOBE	1 S	0406.8	0410.5	10.0	45.0			O
	17000	NOBE	1 S	0406.8	0409.8	10.0	50.0			
	9100	GORK	20 GRF	0506.0E	0516.0	51.0D	42.0			
	204	IZMI	41 F	0731.5	0732.0	2.0	250.0			
	204	IZMI	41 F	1045.5	1045.7	1.5	15.0			

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

Outstanding Occurrences

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Nov 92

NOVEMBER 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
02	33	UPIC	4 S/F	1307.8	1308.0	0.5				
	33	UPIC	4 S/F	1425.8	1426.0	0.4				
	245	SGMR	8 S	1539.0E	1539.0	1.00	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1544.0E	1544.0	U	63.0			QL=4 ST=2 TYP=3
03	100	GORK	44 NS	0600.0E		180.00		10.0		
	200	GORK	44 NS	0600.0E		180.00		5.0		
	127	TORN	44 NS	0620.0E		520.00		20.0		V=2
	204	IZMI	43 NS	0700.0		300.0		35.0		
	245	SVTO	44 NS	0848.0E	0903.0	150.00	97.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0930.0E	1109.0	150.00	90.0			
	235	CUBA	44 NS	1250.0E		550.00		28.0		
	280	CUBA	44 NS	1250.0E		550.00		24.0		
	200	HIRA	44 NS	2110.0E	0433.0	600.00	50.0	25.0		ML
	2950	GORK	2 S/F	0730.0	0731.0	3.0	7.0			
	245	SVTO	8 S	1409.0E	1410.0	2.00	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1410.0E	1410.0	U	59.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1703.0E	1703.0	U	78.0			QL=4 ST=2 TYP=3
04	200	GORK	44 NS	0600.0E		180.00		5.0		
	127	TORN	44 NS	0620.0E		520.00		2.0		V=0
	204	IZMI	43 NS	0700.0		300.0		25.0		
	260	ONDR	44 NS	0930.0E	1028.2	150.00	85.0			
	280	CUBA	44 NS	1257.0E		338.00		22.0		
	235	CUBA	44 NS	1257.0E		338.00		16.0		
	3013	IZMI	20 GRF	1051.0	1057.0	19.0	15.0			
	2950	GORK	20 GRF	1053.5	1057.2	19.3	8.0			
05	200	GORK	44 NS	0600.0E		180.00		5.0		
	127	TORN	44 NS	0620.0E		460.00		3.0		V=0
	204	IZMI	43 NS	0700.0		300.0	15.0			
	260	ONDR	44 NS	0930.0E	1132.0	150.00	80.0			
	280	CUBA	44 NS	1241.0E		541.00		20.0		
	235	CUBA	44 NS	1241.0E		541.00		13.0		
	950	GORK	20 GRF	0521.0	0659.0	160.0	3.0			
	9100	GORK	4 S/F	0619.0	0619.9	5.0	27.0			
	2950	GORK	3 S	0619.1	0620.8	4.9	10.0			
	2840	PEKG	3 S	0620.0	0621.0	3.0	12.4			
	5200	BERN	3 S	0822.5	0824.4	6.1	1.1			
	8400	BERN	3 S	0822.6	0824.4	4.5	1.8			
	3100	BERN	3 S	0823.2	0824.4	4.1	1.4			
	650	GORK	4 S/F	0823.3	0824.0	3.5	9.0			
	950	GORK	46 C	0823.4	0824.5		10.0			
	950	GORK	46 C	0823.4	0823.5	1.8	8.0			
	11800	BERN	3 S	0823.5	0824.4	3.7	1.1			
	9100	GORK	2 S/F	0824.0	0824.4	1.5	8.0			
	2950	GORK	1 S	0824.0	0824.5	1.7	8.0			
	204	IZMI	42 SER	1106.0	1109.0	48.0	15.0			
	245	SGMR	8 S	1519.0E	1519.0	U	170.0			QL=4 ST=2 TYP=3
06	127	TORN	44 NS	0620.0E		520.00		35.0		V=2
	204	IZMI	43 NS	0835.0		205.0		30.0		
	245	SVTO	44 NS	0907.0E	0917.0	370.00	130.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0930.0E	1055.5	150.00	80.0			
	280	CUBA	44 NS	1300.0E		540.00		19.0		
	235	CUBA	44 NS	1300.0E		540.00		16.0		
	245	SGMR	44 NS	2021.0E	2037.0	46.00	130.0			QL=4 ST=3 TYP=1
	245	PALE	44 NS	2031.0E	2037.0	128.00	140.0			QL=4 ST=2 TYP=1
	9100	GORK	2 S/F	0541.0	0543.5	4.0	8.0			
	2950	GORK	1 S	0541.1	0543.2	3.5	3.0			
	245	LEAR	8 S	0816.0E	0817.0	1.00	68.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0817.0E	0817.0	U	82.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0817.0	0817.2	0.5	12.0			
	204	IZMI	42 SER	0854.0	0855.0	40.0	250.0			
	245	LEAR	8 S	0910.0E	0910.0	U	150.0			QL=2 ST=2 TYP=3
	2950	GORK	3 S	0913.2	0913.4	0.5	24.0			
	245	LEAR	4 S/F	0916.0E	0917.0	4.00	110.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	1048.0	1055.0	20.0	150.0			
	808	ONDR	2 S/F	1157.5	1159.0	2.5	60.0			

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Nov 92

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

Outstanding Occurrences

NOVEMBER 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
06	536	ONDR	2 S/F	1158.0	1200.0	2.5	58.0			
	245	SGMR	8 S	1645.0E	1645.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1727.0E	1731.0	6.0D	150.0			QL=4 ST=2 TYP=3
	4995	PALE	49 GB	2109.0E	2111.0	3.0D	870.0			QL=2 ST=2 TYP=6
07	127	TORN	44 NS	0620.0E		500.0D		12.0		V=1
	260	ONDR	44 NS	0930.0E	1118.0		74.0			
	260	ONDR	44 NS	0930.0E	1107.5		71.0			
	260	ONDR	44 NS	0930.0E	1030.5	150.0D	76.0			
	204	IZMI	43 NS	0935.0		130.0		20.0		
	280	CUBA	44 NS	1245.0E		525.0D		21.0		
	235	CUBA	44 NS	1245.0E		525.0D		12.0		
	950	GORK	2 S/F	0647.7	0648.0	1.1	3.0			
	650	GORK	4 S/F	0647.8	0647.9	0.9	8.0			
	204	IZMI	41 F	0707.6	0707.8	1.0	6.5			
	2950	GORK	1 S	0816.5	0817.0	1.3	7.0			
	950	GORK	2 S/F	0816.8	0816.9	0.7	4.0			
	650	GORK	4 S/F	0816.8	0816.9	0.6	9.0			
	3013	IZMI	5 S	0816.8	0816.9	1.5	21.0	10.0		
	2950	GORK	2 S/F	1045.3	1045.8	1.0	29.0			
	950	GORK	4 S/F	1045.4	1045.4U	1.0	30.0			
	650	GORK	4 S/F	1045.4	1045.9	1.1	37.0			
	245	SVTO	4 S/F	1416.0E	1417.0	8.0D	120.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1417.0E	1417.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1421.0E	1422.0	2.0D	68.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1922.0E	1923.0	3.0D	82.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2028.0E	2028.0	1.0D	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2028.0E	2029.0	1.0D	63.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2100.0E	2100.0	U	57.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2100.0E	2100.0	U	32.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2100.0E	2105.0	6.0D	35.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2100.0E	2100.0	6.0D	61.0			QL=4 ST=2 TYP=3
08	200	GORK	44 NS	0600.0E		180.0D		5.0		
	127	TORN	44 NS	0620.0E		200.0D		5.0		V=1
	260	ONDR	44 NS	0930.0E	1020.1	150.0D	67.0			
	204	IZMI	43 NS	1014.0		106.0		20.0		
	235	CUBA	44 NS	1257.0E		482.0D		14.0		
	280	CUBA	44 NS	1258.0E		482.0D		18.0		
	245	LEAR	4 S/F	0207.0E	0208.0	3.0D	89.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0208.0E	0208.0	U	77.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0449.0	0449.6	3.0	13.1			
	2950	GORK	1 S	0645.0	0647.1	3.6	5.0			
	950	GORK	20 GRF	0653.0	0724.0	118.0	3.0			
	650	GORK	20 GRF	0758.8	0829.6	55.2	2.0			
	127	TORN	42 SER	1314.0	1323.7	12.0	90.0	10.0		
	245	SGMR	8 S	1322.0E	1322.0	1.0D	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1322.0E	1323.0	1.0D	76.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1419.0	1420.0	2.0	14.0	7.0		
	9500	CUBA	29 PBI	1421.0		13.2	11.0	5.0		
	245	SGMR	8 S	1506.0E	1506.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1506.0E	1506.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1618.0E	1618.0	1.0D	94.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1648.0E	1648.0	1.0D	69.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1913.0E	1914.0	1.0D	64.0			QL=4 ST=2 TYP=3
09	204	IZMI	43 NS	0700.0		300.0		10.0		
	260	ONDR	44 NS	0930.0E	0945.5	150.0D	113.0			
	280	CUBA	44 NS	1750.0E		250.0D		16.0		
	235	CUBA	44 NS	1750.0E		250.0D		9.0		
	245	SVTO	4 S/F	1444.0E	1445.0	3.0D	66.0			QL=2 ST=2 TYP=3
10	260	ONDR	44 NS	0930.0E	0938.5	150.0D	90.0			
	280	CUBA	44 NS	1630.0E		303.0D		20.0		
	235	CUBA	44 NS	1630.0E		303.0D		13.0		
	245	PALE	44 NS	1745.0E	1748.0	27.0D	130.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1745.0E	1748.0	375.0D	110.0			QL=4 ST=1 TYP=1
	2950	GORK	2 S/F	0808.4	0809.5	3.3	10.0			
	3013	IZMI	5 S	0808.5	0809.5	3.0	9.0	5.0		

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

Outstanding Occurrences

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Nov 92

NOVEMBER 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
10	9100	GORK	1 S	0809.2	0809.3	2.7	6.0			
	9100	GORK	20 GRF	1106.7	1109.6	11.5	5.0			
	33	UPIC	46 C	1410.0	1410.4	1.5				
	245	LEAR	4 S/F	2348.0E	2349.0	3.00	140.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	2348.0E	2348.0	1.00	39.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2348.0E	2349.0	1.00	140.0			QL=4 ST=2 TYP=3
11	410	PALE	8 S	2348.0E	2349.0	1.00	29.0			QL=4 ST=2 TYP=3
	245	LEAR	44 NS	0426.0E	0429.0	199.00	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1241.0E		550.00		14.0		
	280	CUBA	44 NS	1241.0E		550.00		20.0		
	200	HIRA	44 NS	2110.0E	2151.0	140.00	80.0	25.0		MR
	200	HIRA	42 SER	0426.0	0429.1	5.3	150.0	50.0		MR
	100	GORK	4 S/F	0559.2	0601.2	3.8	1500.0			
	950	GORK	1 S	0600.5	0600.9	3.0	1.0			
	650	GORK	1 S	0600.6	0601.0	1.4	1.0			
	9100	GORK	21 GRF	0736.0	0740.2	11.9	5.0			
	204	IZMI	7 C	0737.5	0738.0	2.0	80.0			
	9100	GORK	3 S	0739.2	0739.4	0.8	20.0			
	245	SVTO	8 S	0901.0E	0902.0	2.00	67.0			QL=4 ST=2 TYP=3
	260	ONDR	40 F	1020.0	1141.2	93.0	66.0			
	204	IZMI	41 F	1052.2	1052.6	1.5	30.0			
	245	SGMR	4 S/F	1627.0E	1628.0	3.00	65.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1958.0E	2001.0	3.00	87.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2000.0E	2001.0	1.00	93.0			QL=4 ST=2 TYP=3
12	235	CUBA	44 NS	1300.0E		530.00		15.0		
	280	CUBA	44 NS	1300.0E		530.00		20.0		
	245	SGMR	44 NS	1305.0E	1314.0	142.00	98.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	1307.0E	1314.0	124.00	84.0			QL=4 ST=2 TYP=1
	204	IZMI	41 F	0838.5	0839.0	1.0	35.0			
	204	IZMI	7 C	0857.5	0857.6	0.5	35.0			
	127	TORN	4 S/F	0903.0	0904.0	2.7	70.0	10.0		
	260	ONDR	42 SER	1022.0	1031.5	13.0	48.0			
	260	ONDR	8 S	1111.0	1111.5	1.2	58.0			
	204	IZMI	7 C	1141.0	1141.5	1.5	76.0			
	33	UPIC	8 S	1141.3	1141.5	0.5				
13	280	CUBA	44 NS	1257.0E		528.00		17.0		
	235	CUBA	44 NS	1257.0E		528.00		9.0		
	204	IZMI	42 SER	0801.5	0829.5	60.0	60.0			
	245	SGMR	8 S	1212.0E	1212.0	1.00	140.0			QL=4 ST=2 TYP=3
14	9100	GORK	20 GRF	0548.0	0731.4	207.0	14.0			
	650	GORK	20 GRF	0613.6	0644.5	153.7	2.0			
	127	TORN	7 C	1059.1	1059.4	1.0	170.0	90.0		
	127	TORN	7 C	1203.4	1204.0	0.9	30.0	15.0		
15	127	TORN	43 NS	0730.0		110.0		2.0		V=0
	127	TORN	43 NS	1222.0	1253.5	138.0	30.0	2.0		V=1
	200	HIRA	43 NS	2208.0	0155.0	320.0	70.0	18.0		O
	950	GORK	20 GRF	0652.4	0830.0	127.6	4.0			
	650	GORK	20 GRF	0652.4	0737.5	64.8	2.0			
	9100	GORK	20 GRF	0700.0	0708.5	15.5	5.0			
	9100	GORK	21 GRF	0821.1	0842.2	45.8	5.0			
	9100	GORK	1 S	0831.1	0831.3	0.6	11.0			
	11800	BERN	3 S	0838.4	0841.3	6.0	1.2			
	5200	BERN	3 S	0838.5	0841.3	6.0	3.6			
	3100	BERN	3 S	0838.8	0841.3	5.7	1.1			
	9100	GORK	2 S/F	0839.5	0841.3	2.5	16.0			
	3013	IZMI	5 S	0839.5	0841.5	6.0	7.0			
	2950	GORK	1 S	0840.1	0842.2	4.9	2.0			
	9100	GORK	23 GRF	0951.7	1121.0	128.3	14.0			
	260	ONDR	40 F	1023.0	1134.0	97.0	68.0			
	950	GORK	4 S/F	1134.0	1135.0		45.0			
	650	GORK	2 S/F	1134.7	1135.0	0.7	5.0			
	9100	GORK	2 S/F	1152.5	1153.3	1.5	15.0			
	245	SGMR	4 S/F	1846.0E	1849.0	3.00	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1848.0E	1849.0	1.00	65.0			QL=4 ST=3 TYP=3

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Nov 92

SOLAR RADIO EMISSION Outstanding Occurrences

NOVEMBER 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	204	IZMI	43 NS	0700.0		120.0		10.0		
	127	TORN	43 NS	0706.0		354.0		20.0		V=1
	245	LEAR	44 NS	0709.0E	0709.0	U	69.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0709.0E	0709.0	54.00	80.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		530.00		15.0		
	235	CUBA	44 NS	1300.0E		530.00		10.0		
	9100	GORK	20 GRF	0632.5	0704.0	299.2	15.0			
	2950	GORK	23 GRF	0636.0	0906.0	312.00	11.0			
	950	GORK	21 GRF	0649.7	0821.0	140.30	13.0			
	2950	GORK	2 S/F	0658.1	0659.7	3.7	6.0			
	950	GORK	2 S/F	0658.1	0659.9	3.9	7.0			
	204	IZMI	41 F	0709.0	0709.2	1.5	220.0			
	100	GORK	7 C	0709.9	0710.5	1.7	42.0			
	100	GORK	7 C	0709.9	0711.7		10.0			
	650	GORK	22 GRF	0748.7	0800.4	25.7	14.0			
	950	GORK	4 S/F	1131.9	1132.1	0.6	95.0			
	650	GORK	2 S/F	1131.9	1132.2	0.4	4.0			
	9500	CUBA	21 GRF	1457.0	1504.0	49.0	8.0	4.0		
	9500	CUBA	4 S/F	1524.6	1528.8	6.6	39.0			
	2800	PENT	3 S	2127.3	2131.8	13.0	19.4	8.0		
17	245	SVTO	43 NS	0600.0	0610.0	27.00	130.0			QL=4 ST=2 TYP=1
	2950	GORK	1 S	0818.0	0819.8	3.0	2.0			
	260	ONDR	40 F	0930.0	1139.0	150.0	80.0			
	536	ONDR	48 C	0947.5	0950.0	5.5	145.0			
	600	HUMN	2 S/F	0949.0	0950.0	4.0	50.0	20.0		
	2950	GORK	1 S	1007.0	1008.5	4.3	4.0			
	3013	IZMI	5 S	1007.0	1008.5	5.0	6.0	4.0		
	204	IZMI	41 F	1127.5	1128.0	1.5	35.0			
	245	LEAR	8 S	2252.0E	2252.0	U	68.0			QL=4 ST=2 TYP=3
18	127	TORN	44 NS	0650.0E		180.00		25.0		V=1
	204	IZMI	43 NS	0700.0		100.0		10.0		
	260	ONDR	44 NS	1030.0E	1046.5	60.00	226.0			
	280	CUBA	44 NS	1425.0E		445.00		29.0		
	235	CUBA	44 NS	1425.0E		445.00		18.0		
	650	GORK	21 GRF	0642.0	0800.0	138.00	8.0			
	950	GORK	21 GRF	0645.3	0657.0	19.5	5.0			
	200	GORK	4 S/F	0645.9	0648.7	3.8	6.0			
	650	GORK	46 C	0646.9	0651.1		16.0			
	650	GORK	46 C	0646.9	0648.5	6.4	28.0			
	950	GORK	46 C	0647.3	0651.1		9.0			
	950	GORK	46 C	0647.3	0648.3	5.5	12.0			
	9100	GORK	20 GRF	0704.3	0825.2	110.9	8.0			
	950	GORK	1 S	0734.5	0735.3	1.2	2.0			
	650	GORK	4 S/F	0735.0	0735.3	1.1	11.0			
	650	GORK	1 S	0741.6	0742.2	1.6	3.0			
	2950	GORK	22 GRF	0742.0	0824.0	103.0	4.0			
	2800	PENT	28 PRE	1838.1	1930.5	53.0	23.4	5.0		
	9500	CUBA	20 GRF	1917.0	1942.0	165.00	73.0			SUNSET
	280	CUBA	48 C	1921.8	1953.00	150.00	2800.0			SUNSET
	235	CUBA	48 C	1921.8E	1953.00	150.00	1404.0			SUNSET
	245	PALE	49 GB	1926.0E	1948.0	86.00	2000.0			QL=4 ST=2 TYP=7
	245	SGMR	49 GB	1926.0E	1948.0	85.00	1800.0			QL=4 ST=2 TYP=7
	610	PALE	49 GB	1927.0E	1928.0	225.00	8000.0			QL=4 ST=2 TYP=7
	1415	SGMR	20 GRF	1928.0E	2007.0	55.00	390.0			QL=4 ST=2 TYP=2
	4995	SGMR	4 S/F	1929.0E	1942.0	29.00	170.0			QL=4 ST=2 TYP=5
	2695	SGMR	20 GRF	1929.0E	1941.0	43.00	350.0			QL=4 ST=2 TYP=2
	610	SGMR	49 GB	1929.0E	2007.0	86.00	830.0			QL=4 ST=2 TYP=7
	2800	PENT	3 S	1930.5	1941.5	34.1	232.00			
	410	SGMR	49 GB	1931.0E	1948.0	84.00	2900.0			QL=4 ST=2 TYP=7
	410	PALE	49 GB	1931.0E	2207.0	219.00	8000.0			QL=4 ST=2 TYP=7
	2695	PALE	4 S/F	1934.0E	1941.0	22.00	230.0			QL=2 ST=2 TYP=3
	4995	PALE	20 GRF	1934.0E	1942.0	20.00	110.0			QL=2 ST=2 TYP=2
	8800	SGMR	20 GRF	1935.0E	1941.0	22.00	73.0			QL=2 ST=2 TYP=2
	15400	PALE	4 S/F	1940.0E	1943.0	4.00	32.0			QL=4 ST=2 TYP=3
	1415	PALE	20 GRF	1940.0E	1941.0	52.00	390.0			QL=4 ST=2 TYP=2
	2800	PENT	29 PBI	2004.5	2004.5	87.0	24.0	10.0		
	1415	LEAR	20 GRF	2149.0E	2202.00	48.00	220.0			QL=2 ST=2 TYP=2

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

Outstanding Occurrences

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Nov 92

NOVEMBER 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
18	245	LEAR	4 S/F	2149.0E	2221.0U	57.0D	440.0			QL=2 ST=2 TYP=5
	2695	LEAR	4 S/F	2149.0E	2157.0U	69.0D	67.0			QL=2 ST=2 TYP=3
	410	LEAR	49 GB	2149.0E	2206.0U	82.0D	7000.0			QL=2 ST=2 TYP=6
	610	LEAR	49 GB	2149.0E	2208.0U	103.0D	5800.0			QL=2 ST=2 TYP=6
	200	HIRA	46 C	2153.0	2221.3	50.0	200.0	80.0		SL
	15400	LEAR	4 S/F	2159.0E	2159.0	121.0D	420.0			QL=4 ST=1 TYP=3
19	650	GORK	22 GRF	0618.0	0734.4	117.7	19.0			
	950	GORK	20 GRF	0618.0	0647.8	125.2	4.0			
	2800	PENT	3 S	2019.1	2024.0	17.0	70.0D			
	4995	SGMR	4 S/F	2020.0E	2022.0	6.0D	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2020.0E	2023.0	7.0D	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2022.0E	2023.0	1.0D	46.0			QL=2 ST=2 TYP=3
	2800	PENT	29 PBI	2036.0	2036.0	49.0	20.0	5.0		
20	200	GORK	44 NS	0600.0E		180.0D		5.0		
	127	TORN	44 NS	0650.0E		460.0D		10.0		V=2
	204	IZMI	43 NS	0700.0		300.0		10.0		
	280	CUBA	44 NS	1255.0E		485.0D		22.0		
	235	CUBA	44 NS	1255.0E		485.0D		16.0		
	650	GORK	21 GRF	0633.5	0636.5	18.3	3.0			
	650	GORK	4 S/F	0640.6	0640.8	0.6	13.0			
	650	GORK	4 S/F	0643.3	0643.6	0.8	10.0			
	204	IZMI	41 F	0911.0	0911.5	1.0	56.0			
	260	ONDR	41 F	0940.0	1041.5	140.0	130.0			
	808	ONDR	48 C	1019.5	1020.5	4.0	125.0			
	536	ONDR	42 SER	1046.0	1051.0	7.0	90.0			
	33	UPIC	8 S	1252.0	1252.1	0.4				
	245	SGMR	8 S	2010.0E	2011.0	1.0D	98.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	2208.0E	2208.0	5.0D	56.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	2348.0E	2348.0	1.0D	1500.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	2348.0E	2349.0	1.0D	38.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2348.0E	2349.0	1.0D	1600.0			QL=4 ST=2 TYP=6
21	204	IZMI	43 NS	0700.0		300.0		15.0		
	127	TORN	43 NS	0726.0		400.0		4.0		V=1
	260	ONDR	44 NS	0930.0E	1027.0	150.0D	73.0			
	280	CUBA	44 NS	1302.0E		479.0D		21.0		
	235	CUBA	44 NS	1302.0E		479.0D		14.0		
	245	LEAR	8 S	0149.0E	0149.0	U	93.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0154.0E	0154.0	1.0D	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	4 S/F	0613.0E	0615.0	1067.0D	70.0			QL=4 ST=1 TYP=3
	950	GORK	20 GRF	0614.3	0843.8	165.7D	11.0			
	245	LEAR	8 S	0916.0E	0917.0	1.0D	68.0			QL=4 ST=2 TYP=3
	9100	GORK	22 GRF	0957.9	1137.7	109.1D	12.0			
	2950	GORK	22 GRF	0959.2	1033.0	60.8U	6.0			
	950	GORK	20 GRF	1005.2	1122.7	102.8D	36.0			
	650	GORK	20 GRF	1024.0	1112.0	84.0	7.0			
	410	SVTO	8 S	1238.0E	1238.0	1.0D	63.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1426.0E	1426.0	2.0D	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1426.0E	1426.0	2.0D	130.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1427.0E	1427.0	1.0D	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1427.0E	1427.0	1.0D	1400.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	1812.0E	1814.0	2.0D	120.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1812.0E	1814.0	3.0D	130.0			QL=4 ST=2 TYP=3
22	200	HIRA	44 NS	0000.0E	0220.0	435.0D	40.0	25.0		WL
	200	GORK	44 NS	0600.0E		180.0D		5.0		
	204	IZMI	43 NS	0700.0		300.0		10.0		
	127	TORN	43 NS	0707.0		430.0		2.0		V=1
	280	CUBA	44 NS	1339.0E		381.0D		21.0		
	235	CUBA	44 NS	1339.0E		381.0D		14.0		
	245	LEAR	8 S	0036.0E	0036.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0036.0E	0036.0	1.0D	120.0			QL=4 ST=2 TYP=3
	127	TORN	8 S	0916.7	0917.1	1.0	140.0	70.0		
	260	ONDR	40 F	0930.0	1140.0	150.0	405.0			
	536	ONDR	8 S	1016.0E	1016.0	0.1D	148.0			
	536	ONDR	42 SER	1138.0	1142.5	5.0	136.0			
	245	SVTO	8 S	1139.0E	1139.0	U	290.0			QL=4 ST=2 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

NOVEMBER 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
22	410	SVTO	8 S	1139.0E	1139.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1213.0E	1214.0	2.00	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1213.0E	1214.0	2.00	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1254.0E	1255.0	1.00	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1255.0E	1255.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1300.0E	1301.0	1.00	91.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1301.0E	1301.0	U	210.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1304.0	1305.7	3.0	9.0	3.0		
	410	SGMR	8 S	1305.0E	1305.0	1.00	60.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1305.0E	1305.0	1.00	120.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	1305.0E	1305.0	1.00	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1305.0E	1305.0	1.00	130.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1307.0E	1308.0	3.00	9200.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1308.0E	1308.0	2.00	8000.0			QL=4 ST=3 TYP=6
	127	TORN	4 S/F	1318.2	1318.8	2.4	890.0	240.0		
	245	SGMR	8 S	1434.0E	1435.0	1.00	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1434.0E	1434.0	1.00	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1446.0E	1446.0	1.00	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1446.0E	1446.0	1.00	130.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	1803.0E	1803.0	1.00	140.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1803.0E	1803.0	6.00	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1803.0E	1803.0	1.00	48.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1803.0E	1803.0	1.00	140.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1804.0E	1804.0	1.00	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1804.0E	1804.0	1.00	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1955.0E	1956.0	1.00	69.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1955.0E	1956.0	3.00	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1956.0E	1956.0	U	99.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1956.0E	1956.0	2.00	88.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2008.0E	2008.0	1.00	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2008.0E	2008.0	1.00	380.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	2307.0E	2308.0	1.00	180.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2307.0E	2307.0	1.00	240.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	2307.0E	2308.0	2.00	72.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2307.0E	2308.0	1.00	160.0			QL=4 ST=3 TYP=3
	2695	PALE	8 S	2307.0E	2308.0	1.00	350.0			QL=2 ST=3 TYP=3
	410	PALE	8 S	2307.0E	2307.0	1.00	190.0			QL=4 ST=3 TYP=3
	1415	LEAR	8 S	2308.0E	2309.0	1.00	13.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2308.0E	2308.0	2.00	110.0			QL=4 ST=3 TYP=3
	410	PALE	4 S/F	2310.0E	2310.0	3.00	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2311.0E	2311.0	1.00	58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2311.0E	2311.0	1.00	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2317.0E	2317.0	U	260.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2317.0E	2317.0	U	210.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	2352.0E	2352.0	U	120.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2352.0E	2352.0	U	120.0			QL=4 ST=2 TYP=3
23	204	IZMI	43 NS	0700.0		300.0		10.0		
	127	TORN	44 NS	0700.0E		440.00		12.0		V=2
	280	CUBA	44 NS	1245.0E		545.00		17.0		
	235	CUBA	44 NS	1245.0E		545.00		11.0		
	17000	NOBE	1 S	0059.2	0059.5	1.0	20.0			0,80,35GHZ:0
	410	LEAR	4 S/F	0337.0E	0337.0	3.00	80.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0338.0E	0339.0	1.00	75.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0339.0E	0339.0	U	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0339.0E	0339.0	5.00	41.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0339.0E	0339.0	U	11.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0339.0E	0339.0	1.00	24.0			QL=4 ST=2 TYP=3
	35000	NOBE	1 S	0339.1	0339.7	10.0	16.0			0,80GHZ:0
	17000	NOBE	1 S	0339.1	0339.7	10.0	16.0			0
	15400	LEAR	8 S	0344.0E	0344.0	U	290.0			QL=4 ST=2 TYP=3
	2840	PEKG	46 C	0427.5	0432.0	12.5	63.6			
	610	LEAR	4 S/F	0430.0E	0432.0	4.00	150.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0430.0E	0431.0	4.00	120.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0430.0E	0431.0	5.00	91.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0430.0E	0431.0	4.00	99.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0430.0E	0431.0	4.00	58.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0430.0E	0432.0	3.00	67.0			QL=4 ST=2 TYP=3
	35000	NOBE	2 S/F	0430.1	0431.2	6.0	62.0			0,80GHZ:0

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

Outstanding Occurrences

25
Nov 92

NOVEMBER 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak Mean (10 -22 W/m 2 Hz)		Int	Remarks
23	17000	NOBE	2 S/F	0430.1	0431.2	18.0	80.0			R
	410	LEAR	8 S	0432.0E	0433.0	2.00	39.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0606.0E	0607.0	1.00	94.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0607.0E	0607.0	U	73.0			QL=4 ST=2 TYP=3
	950	GORK	21 GRF	0609.0E	0712.0	171.00	8.0			
	2950	GORK	2 S/F	0613.3	0614.0	0.9	7.0			
	9100	GORK	21 GRF	0734.2	0945.9	265.8	25.0			
	5200	BERN	46 C	0844.0	0847.8	11.5	3.7			
	3100	BERN	46 C	0844.7	0849.0	11.0	2.9			
	8400	BERN	46 C	0845.7	0848.1	7.1	3.3			
	4995	SVTO	4 S/F	0846.0E	0847.0	5.00	25.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0846.0	0849.2	5.0	33.0			
	11800	BERN	46 C	0846.1	0848.7	4.2	1.3			
	9100	GORK	4 S/F	0846.9	0848.2	3.3	25.0			
	2950	GORK	4 S/F	0847.0	0849.0	5.0	18.0			
	2695	SVTO	8 S	0847.0E	0849.0	2.00	18.0			QL=2 ST=2 TYP=3
	610	SVTO	4 S/F	0847.0E	0847.0	3.00	89.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0847.0E	0848.0	4.00	20.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	0847.5	0848.0	1.0	48.0	20.0		
	650	GORK	4 S/F	0847.6	0847.6	2.8	290.0			
	950	GORK	4 S/F	0847.6	0847.9	1.7	9.0			
	600	HUMN	2 S/F	0848.5	0849.0	1.0	36.0	15.0		
	650	GORK	21 GRF	0936.0	0942.9	28.8	2.0			
	950	GORK		0938.6	0940.1		34.0			
	950	GORK	46 C	0938.6	0938.9	2.6	64.0			
	650	GORK	46 C	0938.7	0939.0	2.5	4.0			
	650	GORK	46 C	0938.7	0940.4		4.0			
	260	ONDR	40 F	0940.0	1100.5	85.0	63.0			
	245	SVTO	8 S	1208.0E	1208.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1657.0E	1657.0	1.00	170.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	2015.0	2031.0	17.0	159.0	55.0		
	9500	CUBA	46 C	2015.0	2025.8	28.0	200.0	53.0		
	9500	CUBA	46 C	2015.0	2030.9		167.0			
	4995	PALE	4 S/F	2023.0E	2033.0	16.00	260.0			QL=2 ST=2 TYP=3
	15400	PALE	4 S/F	2023.0E	2025.0	19.00	220.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2023.0E	2033.0	12.00	260.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2024.0E	2024.0	3.00	23.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2024.0E	2031.0	11.00	110.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	2025.0E	2025.0	U	65.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	2025.0E	2025.0	U	72.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2038.0	2048.0	115.0	35.6	7.0		
	410	LEAR	8 S	2352.0E	2352.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2355.0E	2355.0	U	240.0			QL=4 ST=2 TYP=3
24	200	HIRA	44 NS	0100.0E	0425.0	360.00	80.0	40.0		O
	245	LEAR	44 NS	0453.0E	0436.0	338.00	110.0			QL=4 ST=2 TYP=1
	200	GORK	44 NS	0600.0E		180.00		5.0		
	204	IZMI	43 NS	0700.0		300.0		25.0		
	127	TORN	44 NS	0700.0E		310.00		4.0		V=1
	260	ONDR	44 NS	0940.0E	1048.8	150.00	127.0			
	280	CUBA	44 NS	1247.0E		544.00		25.0		
	235	CUBA	44 NS	1257.0E		494.00		15.0		
	245	SGMR	44 NS	1642.0E	1706.0	247.00	88.0			QL=4 ST=3 TYP=1
	245	PALE	44 NS	1707.0E	1709.0	365.00	140.0			QL=4 ST=3 TYP=1
	245	LEAR	8 S	0245.0E	0245.0	U	67.0			QL=2 ST=3 TYP=3
	950	GORK	21 GRF	0545.0E	1019.0	375.00	25.0			
	650	GORK	23 GRF	0545.0E	1036.0	375.00	16.0			
	950	GORK	4 S/F	0624.7	0625.6	1.9	17.0			
	204	IZMI	41 F	0713.0	0714.0	2.5	100.0			
	9100	GORK	21 GRF	0824.0	0856.0	156.0	4.0			
	245	LEAR	8 S	0831.0E	0831.0	1.00	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0831.0E	0831.0	2.00	210.0			QL=4 ST=2 TYP=3
	200	GORK	4 S/F	0831.5	0832.0	1.9	580.0			
	100	GORK	4 S/F	0831.5	0832.0	1.1	950.0			
	950	GORK	4 S/F	0841.8	0844.7	6.1	28.0			
	650	GORK	40 F	0842.5	0845.1	5.0	12.0			
	2950	GORK	1 S	0845.5	0846.8	2.5	3.0			
	9100	GORK	1 S	1003.4	1004.0	2.0	10.0			
	536	ONDR	27 RF	1010.0	1018.2	35.0	73.0			

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Nov 92

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

Outstanding Occurrences

NOVEMBER 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
24	204	IZMI	41 F	1051.0	1051.5	1.5	150.0			
	950	GORK	45 C	1136.8	1139.5		3.0			
	650	GORK	45 C	1136.8	1137.5		11.0			
	650	GORK	45 C	1136.8	1136.9	0.9	5.0			
	950	GORK	45 C	1136.8	1136.9	0.9	3.0			
	245	SGMR	8 S	1221.0E	1221.0	U	90.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1307.2	1308.6	2.0	530.0	100.0		
	245	SGMR	8 S	1327.0E	1327.0	U	67.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	1350.0	1351.8	4.0	60.0	20.0		
	245	SGMR	8 S	1454.0E	1456.0	2.0D	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1510.0E	1510.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1857.0E	1858.0	3.0D	410.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2310.0E	2311.0	2.0D	65.0			QL=4 ST=2 TYP=3
25	200	HIRA	44 NS	0000.0E	0532.0	420.0D	120.0	50.0		0
	245	LEAR	44 NS	0016.0E	0024.0	615.0D	160.0			QL=4 ST=2 TYP=1
	245	PALE	44 NS	0215.0E	0219.0	76.0D	95.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		300.0		20.0		
	245	SVTO	44 NS	0939.0E	1110.0	218.0D	240.0			QL=4 ST=2 TYP=1
	260	ONDR	44 NS	0940.0E	1040.5	150.0D	340.0			
	280	CUBA	44 NS	1247.0E		544.0D		25.0		
	235	CUBA	44 NS	1247.0E		544.0D		20.0		
	245	SGMR	44 NS	1331.0E	1401.0	376.0D	140.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1708.0	1713.0	502.0D	150.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	2345.0E	0047.0	105.0D	160.0			QL=4 ST=2 TYP=1
	410	LEAR	8 S	0145.0E	0145.0	U	82.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0550.0	0730.0	194.3	17.0			
	650	GORK	20 GRF	0601.0	0625.3	65.0	4.0			
	950	GORK	20 GRF	0601.1	0648.3	85.9D	7.0			
	9100	GORK	20 GRF	0619.5	0729.6	157.5	11.0			
	204	IZMI	42 SER	0743.0	0743.5	55.0	130.0			
	536	ONDR	27 RF	1000.0	1020.0	42.0	110.0			
	536	ONDR	2 S/F	1108.5	1110.8	4.2	100.0			
	245	SGMR	8 S	1601.0E	1601.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1624.0E	1625.0	1.0D	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1927.0E	1927.0	1.0D	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2028.0E	2029.0	2.0D	270.0			QL=4 ST=2 TYP=3
26	204	IZMI	43 NS	0700.0		300.0		20.0		
	127	TORN	44 NS	0700.0E		440.0D		5.0		V=1
	260	ONDR	44 NS	0940.0E	0000.0U	150.0D				
	280	CUBA	44 NS	1310.0E		526.0D		25.0		
	235	CUBA	44 NS	1310.0E		526.0D		15.0		
	245	PALE	44 NS	2113.0E	0235.0U	378.0D	500.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	2200.0E	0234.0	753.0D	440.0			QL=4 ST=2 TYP=1
	127	TORN	45 C	0731.4	0733.8	5.2	30.0	10.0		
	245	SVTO	8 S	0734.0E	0735.0	2.0D	82.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0735.0E	0735.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0828.0E	0829.0	2.0D	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0828.0E	0829.0	2.0D	130.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0830.0	0843.0	15.0	100.0			
	245	SGMR	8 S	1230.0E	1230.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1245.0E	1246.0	2.0D	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1246.0E	1246.0	1.0D	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1512.0E	1513.0	1.0D	49.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2022.0E	2022.0	U	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2022.0E	2022.0	U	52.0			QL=2 ST=2 TYP=3
27	200	HIRA	44 NS	0000.0E	0039.0	420.0D	200.0	60.0		SL
	245	SVTO	43 NS	0612.0	0630.0	528.0	260.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		300.0		40.0		
	127	TORN	43 NS	0710.0		430.0		5.0		V=1
	260	ONDR	44 NS	0940.0E	1156.0	150.0D	320.0			
	245	SGMR	44 NS	1214.0E	1215.0	190.0D	290.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1443.0E		425.0D		15.0		
	280	CUBA	44 NS	1443.0E		425.0D		23.0		
	245	SGMR	44 NS	1713.0E	1731.0	97.0D	110.0			QL=4 ST=2 TYP=1
	245	PALE	44 NS	1738.0E	1959.0	184.0D	230.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1840.0E	1933.0	89.0D	460.0			QL=4 ST=2 TYP=1

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

Outstanding Occurrences

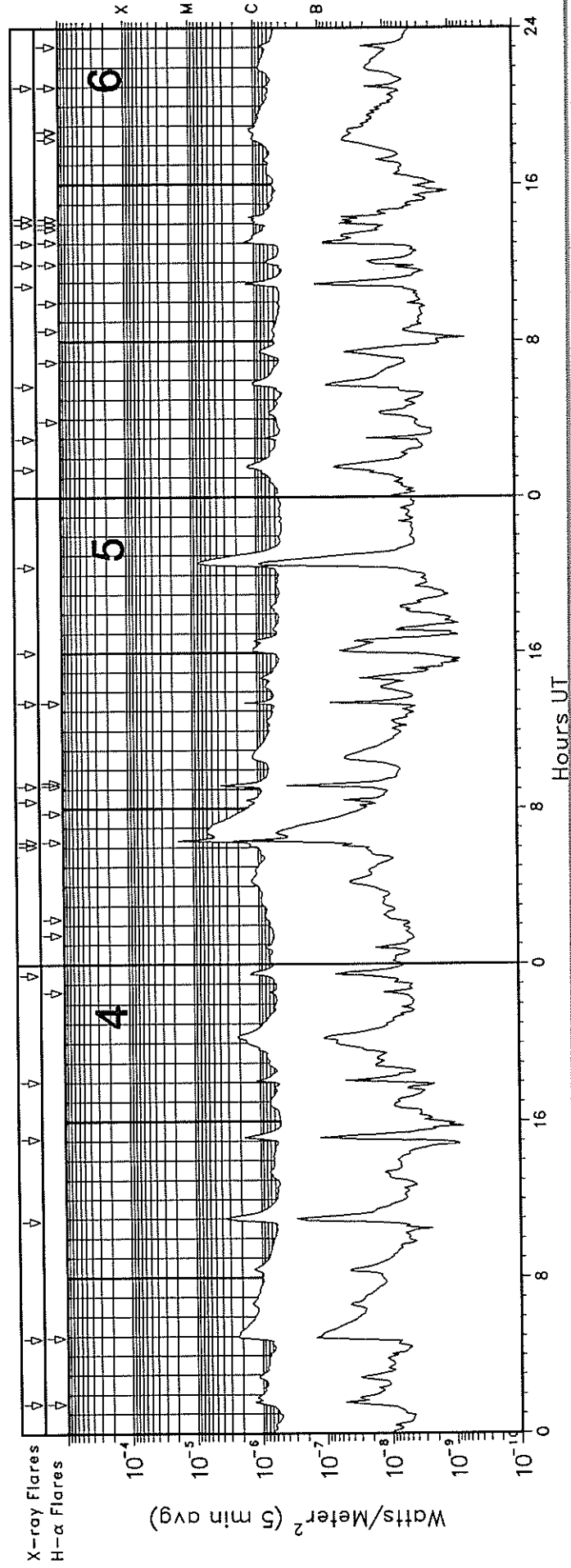
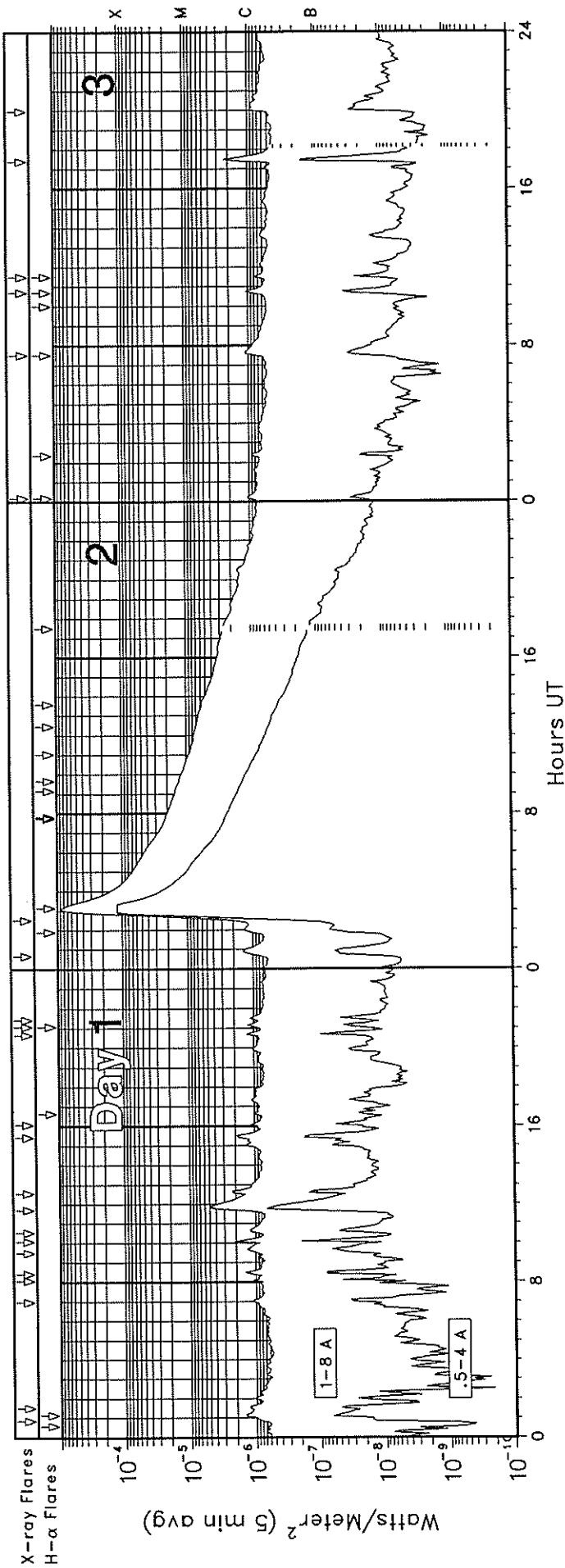
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Nov 92

NOVEMBER 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
27	2950	GORK	2 S/F	0741.0	0741.8	3.4	5.0			
	9100	GORK	20 GRF	0822.8	0843.0	37.00	13.0			
	204	IZMI	41 F	1030.0	1031.0	25.0		300.0		
	5200	BERN	4 S/F	1226.0	1243.5	40.4	5.6			
	3100	BERN	4 S/F	1226.3	1243.4	39.0	6.7			
	3100	BERN	4 S/F	1226.3	1243.5	40.1	6.4			
	5200	BERN	4 S/F	1226.7	1243.5	37.9	5.3			
	8400	BERN	3 S	1238.1	1243.8	28.7	2.5			
	8400	BERN	3 S	1239.0	1244.0	27.8	2.6			
	1415	SVTO	4 S/F	1241.0E	1244.0	7.00	13.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1241.0E	1243.0	8.00	49.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1241.0E	1243.0	8.00	61.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1242.0E	1246.0	7.00	32.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1243.0E	1244.0	2.00	31.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1243.0E	1244.0	2.00	51.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1243.0E	1244.0	1.00	14.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1243.0E	1243.0	2.00	48.0			QL=4 ST=2 TYP=3
	50000	BERN	3 S	1246.8	1246.8					
	3100	BERN	3 S	1356.1	1359.7	10.6	1.7			
	5200	BERN	3 S	1357.0	1359.8	15.3	2.5			
	245	SGMR	8 S	1829.0E	1831.0	2.00	170.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1933.0E	1933.0	U	350.0			QL=2 ST=2 TYP=3
28	280	CUBA	44 NS	1321.0E		509.00		17.0		
	235	CUBA	44 NS	1321.0E		509.00		11.0		
	2950	GORK	1 S	0940.2	0940.5	0.9	3.0			
	3013	IZMI	5 S	0940.2	0940.5	15.0	3.0	2.0		
	9100	GORK	20 GRF	1009.2	1104.2	95.80	7.0			
	3013	IZMI	5 S	1055.0	1055.9	20.0	5.0	3.0		
	2695	SVTO	20 GRF	1211.0E	1212.0	4.00	24.0			QL=4 ST=2 TYP=2
	4995	SVTO	20 GRF	1211.0E	1212.0	4.00	18.0			QL=4 ST=2 TYP=2
	4995	SGMR	4 S/F	1605.0E	1606.0	4.00	140.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1605.0E	1606.0	4.00	50.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1605.0E	1607.0	4.00	170.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1606.0E	1606.0	3.00	29.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	2038.0	2049.0	42.0	8.1	3.0		
29	280	CUBA	44 NS	1313.0E		467.00		19.0		
	235	CUBA	44 NS	1313.0E		467.00		10.0		
	9100	GORK	20 GRF	0821.0	0900.0	42.00	14.0			
	3100	BERN	3 S	1228.1	1230.4	11.3	5.1			
	5200	BERN	3 S	1228.3	1230.7	16.6	3.7			
	11800	BERN	3 S	1229.0	1231.1	5.8	1.5			
	8400	BERN	3 S	1229.3	1231.0	6.2	2.2			
	4995	SGMR	8 S	1230.0E	1230.0	U	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1230.0E	1230.0	1.00	47.0			QL=4 ST=2 TYP=3
30	280	CUBA	44 NS	1304.0E		530.00		16.0		
	235	CUBA	44 NS	1304.0E		530.00		10.0		
	2840	PEKG	5 S	0012.0	0014.3	5.0	21.7			
	4995	LEAR	8 S	0021.0E	0022.0	1.00	93.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0021.0E	0022.0	1.00	60.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0021.0E	0022.0	2.00	77.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	0021.0E	0022.0	2.00	26.0			QL=4 ST=2 TYP=3
	17000	NOBE	1 S	0021.4	0022.0	1.5	22.0			0,80,35GHZ:0
	9500	CUBA	20 GRF	1920.0	1932.0	49.0	25.0	12.0		
	2800	PENT	4 S/F	1922.5	1927.5	7.4	54.8	17.0		
	9500	CUBA	2 S/F	1924.0	1927.2	6.0	83.0	41.0		
	2800	PENT	29 PBI	1930.0	1931.5	29.0	17.0	5.0		

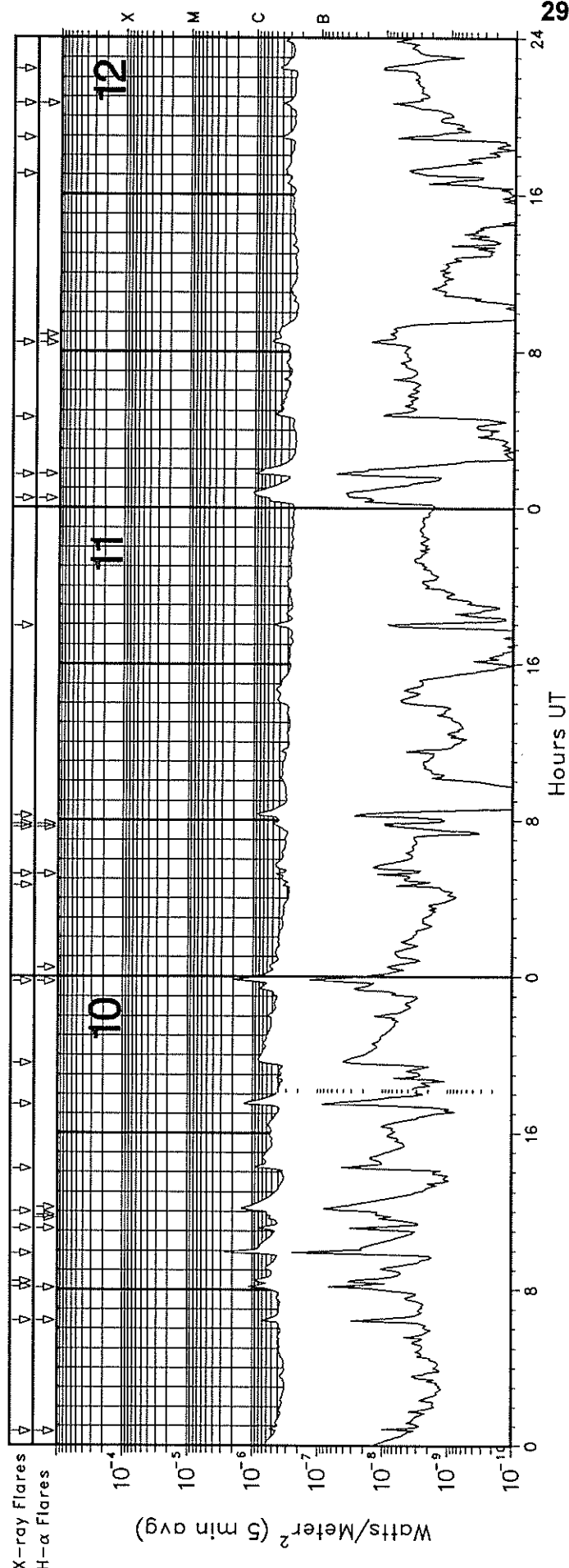
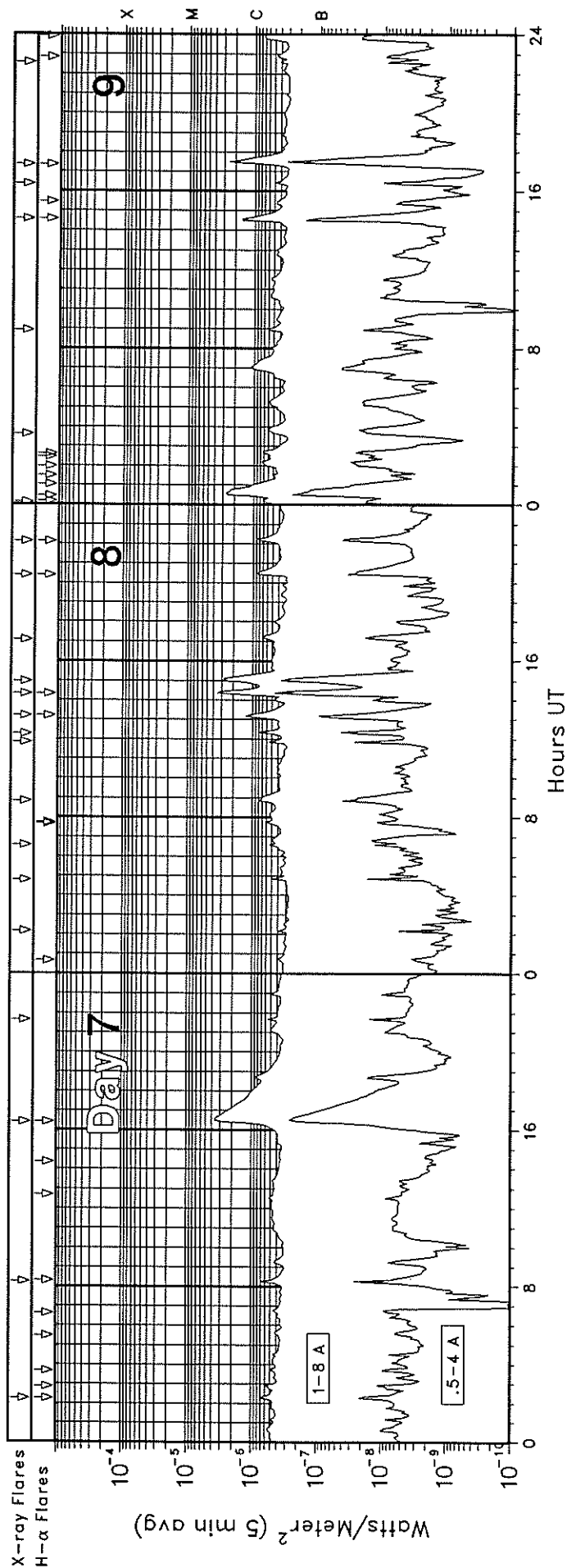
GOES-7 X-RAY DETECTOR

November 1992



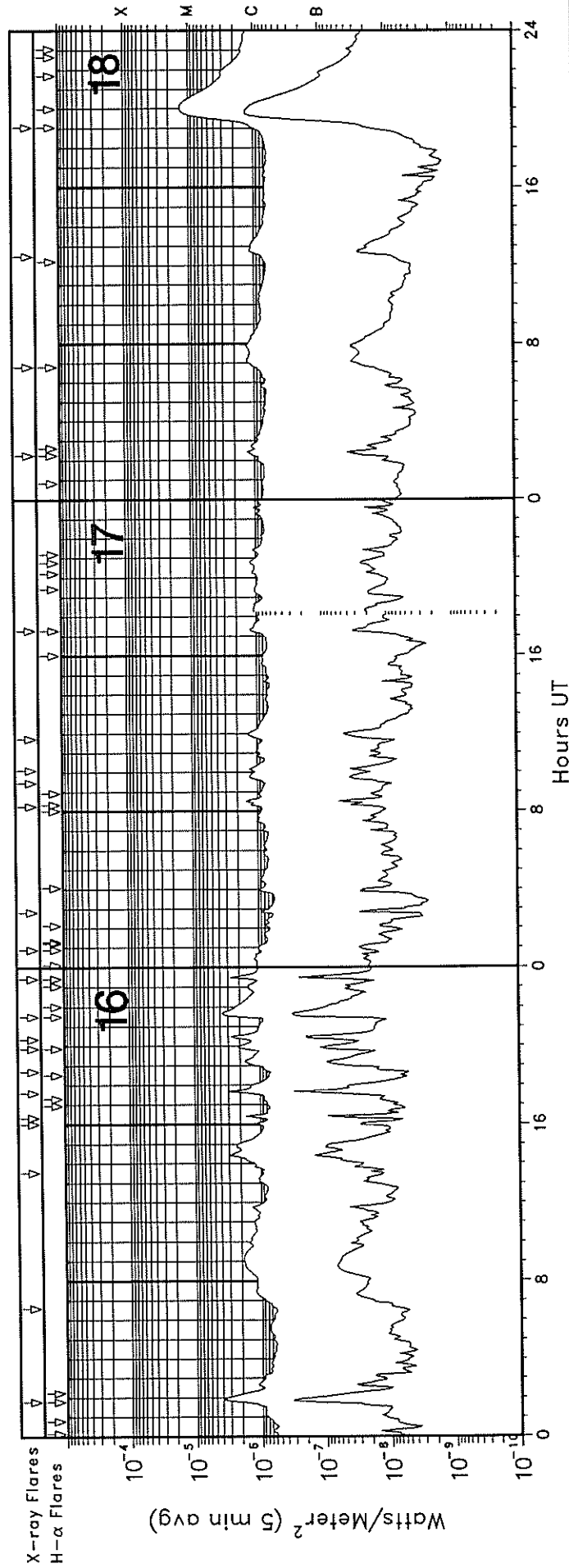
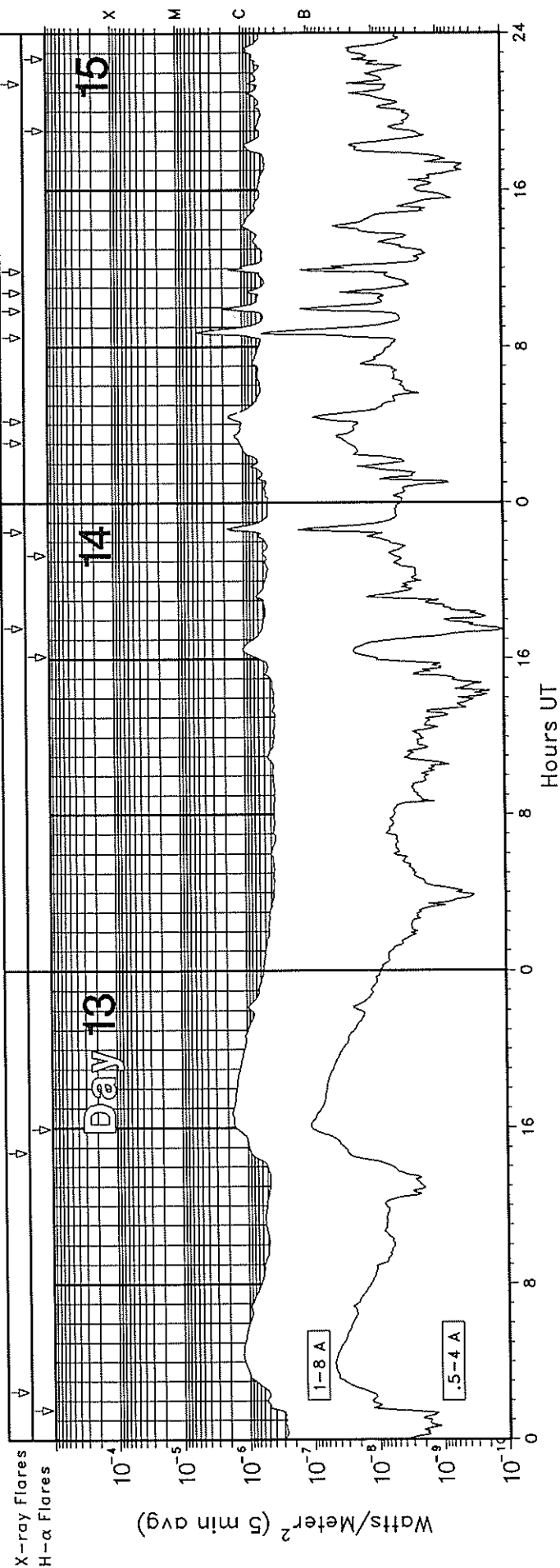
GOES-7 X-RAY DETECTOR

November 1992



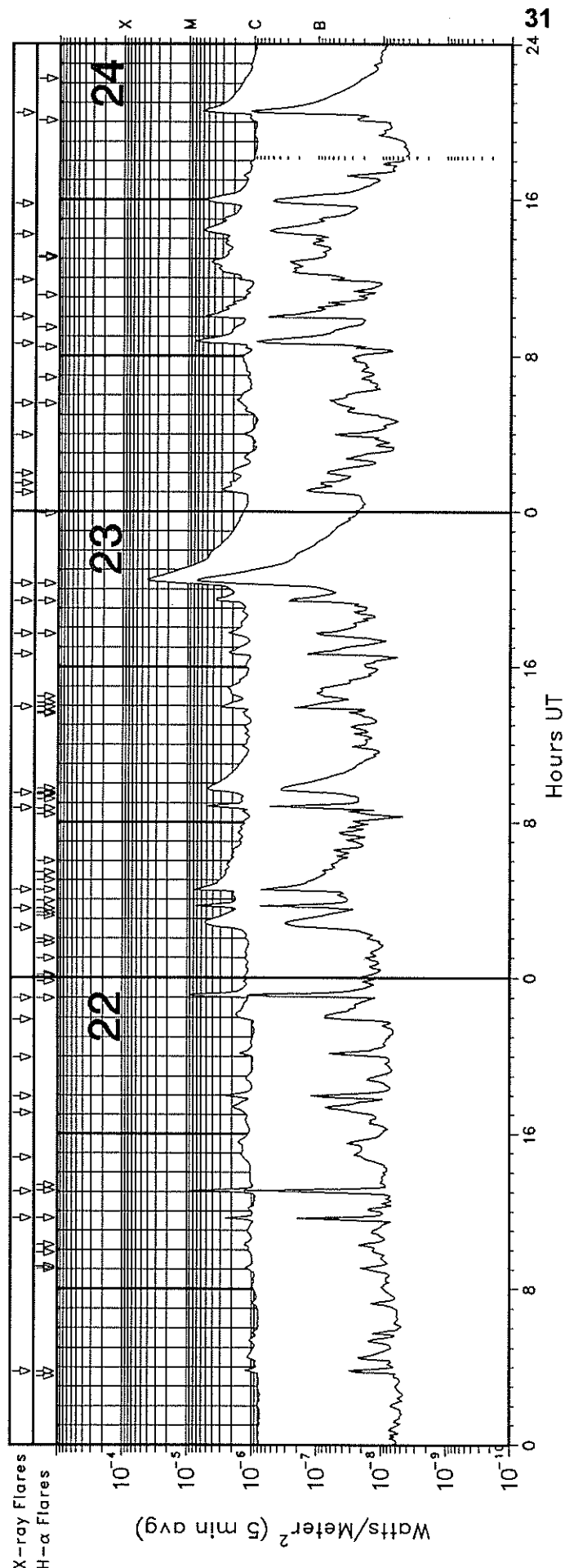
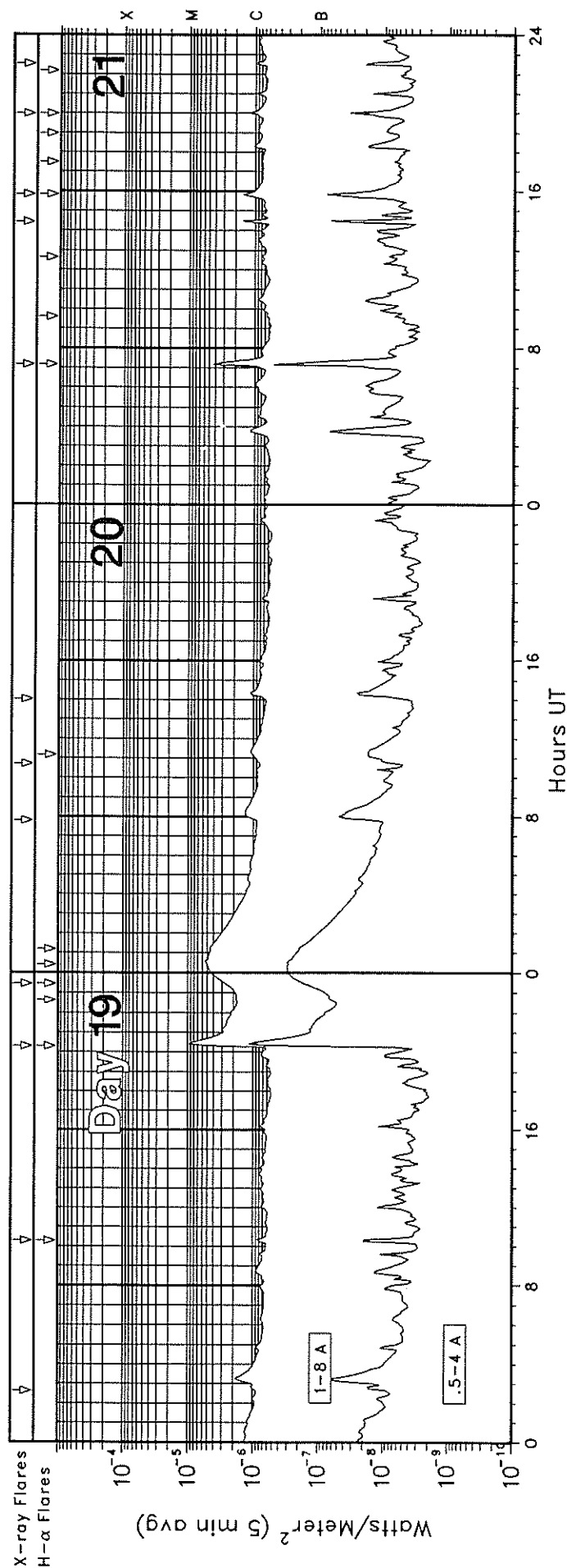
GOES-7 X-RAY DETECTOR

November 1992



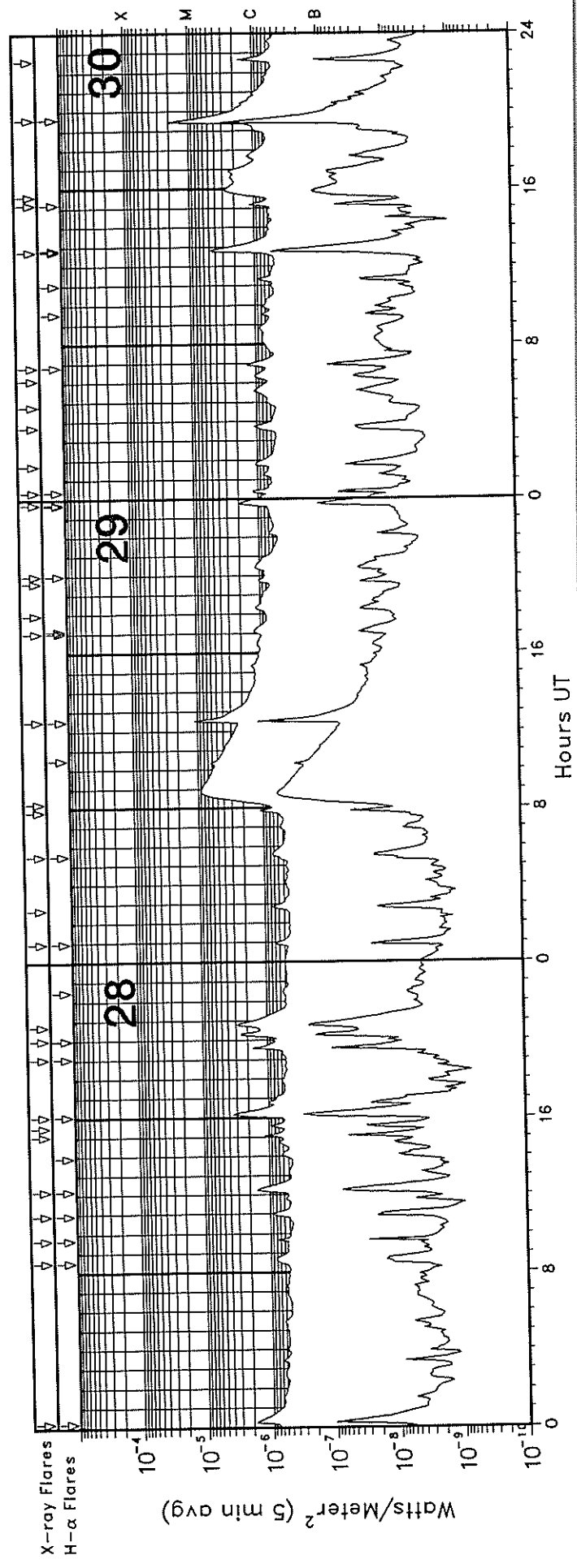
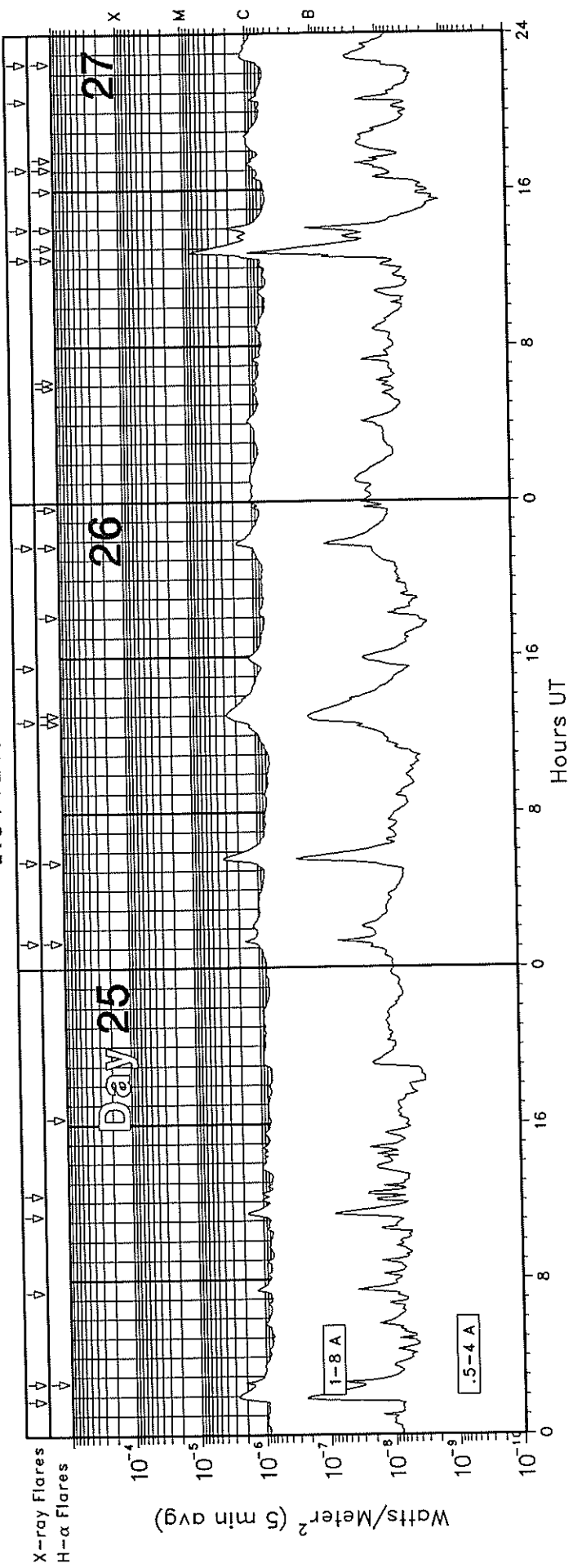
GOES-7 X-RAY DETECTOR

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GOES-7 X-RAY DETECTOR

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GOES SOLAR X-RAY FLARES
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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
01	0050	0110	0125				C1.6	
01	0131	0134	0137				C1.3	
01	0658	0703	0709				C1.1	
01	0804	0807	0811				C1.1	
01	0825	0831	0836				C1.5	
01	0929	0942	0957				C1.3	
01	1005	1009	1012				C2.8	
01	1031	1039	1050				C1.2	
01	1142	1154	1209				C4.9	
01	1234	1240	1245				C2.6	
01	1526	1529	1535				C2.2	
01	1605	1608	1610				C1.2	
01	2039	2044	2049				C1.3	
01	2105	2111	2140	S14	W37	SF	C1.2	7323
01	2126	2133	2137				C1.1	
02	0040	0057	0109				C1.4	
02	0231	0308	0328				X9.0	7321
03	0010E	0012	0051D	S15	W53	SF	C1.0	7323
03	0731	0740	0805	N16	W33	1F	C1.1	7324
03	1042	1046	1118	N16	W35	SF	C1.1	7324
03	1130	1130	1141	S05	W26	SF	B8.4	7326
03	1723	1732	1739				C2.4	
03	1958	2005	2053				B9.6	
04	0130	0135	0157	S23	W16	1F	C1.4	7332
04	0451	0500	0541				C2.4	
04	1052	1103	1112				C3.7	
04	1506	1513	1521				C1.8	
04	1802	1808	1814				C1.2	
04	2327	2331	2341				C1.4	
05	0605	0610	0614				C1.5	
05	0617	0622	0631				M2.0	
05	0823	0827	0830				C1.6	
05	0911E	0913U	0920D	N16	E82	SF	C4.3	7334
05	1324	1325	1330	N14	E82	SF	C2.2	7334
05	1600	1615	1632				C1.1	
05	2026	2041	2054				C8.2	
06	0126	0132	0146				C1.3	
06	0259	0303	0307				B7.3	
06	0541	0551	0605				C1.1	
06	1049	1054	1102	N15	E68	SF	C1.6	7334
06	1156	1206	1213				B7.1	
06	1259	1305	1316				C1.5	
06	1359	1400	1454	S09	E07	SF	C1.1	7330
06	1415	1421	1428	N15	E62	SF	C1.3	7334
06	2059	2100	2116	S19	E66	SF	B8.1	7335
07	0215	0216	0222	S18	E61	SF	B7.4	7335
07	0816	0819	0821				B9.2	
07	1625E	1634U	1717	S22	W63	1F	C3.7	7332
07	2138	2142	2145				B5.8	
08	0210	0213	0216				B4.3	
08	0448	0453	0456				B5.5	
08	0635	0638	0640				B6.1	
08	0850	0854	0858				B9.1	
08	1149	1152	1157				B6.1	
08	1215	1221	1227				B8.6	
08	1311	1313	1331	S09	W16	SF	C1.3	7330
08	1419E	1422U	1434	S09	W18	SN	C5.0	7330
08	1458	1504	1511				C3.1	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
08	1705	1712	1721				B7.1	
08	2024	2030	2041	S20	W75	SN	C1.1	7332
08	2208	2210	2222	S08	W18	SF	B9.4	7330
09	0007	0032	0118	S09	W24	1F	C2.8	7330
09	0338	0352	0406				B6.2	
09	0855	0900	0905				B6.6	
09	1434E	1435U	1444	S08	W30	SF	C1.8	7330
09	1622	1626	1631				B5.1	
09	1721	1731	1750	S09	W33	SF	C2.8	7330
09	2235	2239	2242				B4.7	
10	0043	0051	0112	S09	W34	SF	B6.0	7330
10	0625	0627	0636	S09	W40	SF	B8.9	7330
10	0809	0810	0820	S10	W41	SF	C1.3	7330
10	0825	0830	0835				C1.0	
10	0951	0959	1004				C2.9	
10	1109	1113U	1127	S17	E18	SF	B8.4	7335
10	1200	1206	1218	S03	E83	SF	C1.4	
10	1411	1418	1427				B9.5	
10	1727	1734	1742				C1.4	
10	1935	1950	2048				B8.1	
10	2346	2350	0021	N11	W00	1F	C2.2	7334
11	0440	0443	0447				B3.9	
11	0514	0515	0519	S18	E08	SF	B4.9	7335
11	0739	0740	0745	S18	E07	SF	B4.8	7335
11	0748	0819	0848	N11	W04	SF	B5.4	7334
11	0814	0820	0827				B9.7	
11	1756	1804	1807				B4.9	
12	0028	0039	0057	N04	E69	SF	C1.0	7337
12	0141	0149	0206				B9.8	
12	0439	0449	0501				B5.1	
12	0827	0838	0858	N04	E61	SF	B5.7	7337
12	1702	1705	1709				B4.1	
12	1855	1859	1905				B4.6	
12	2039	2041	2055	N04	E56	SF	B4.0	7337
12	2225	2231	2243				B4.6	
13	0226	0405	0625				C1.2	
13	1444	1647	1944				C1.8	
14	1735	2241	2252				C2.0	
14	2231	2241	2248				C1.9	
15	0304	0323	0335				C1.3	
15	0410	0421	0432				C1.6	
15	0830	0846	0853				C5.5	
15	0950	0957	1005				C2.1	
15	1044	1049	1055				B8.8	
15	1151	1155	1200				C2.1	
15	2125	2129	2132				B9.0	
16	0147	0202	0224	S19	E77	SF	C4.0	7345
16	0636	0855	1108				C1.8	
16	1332	1428	1508				C2.9	
16	1601	1604	1609				C1.2	
16	1621	1626	1629				C2.0	
16	1736	1744	1746				C4.1	
16	1842	1915	1924				C1.8	
16	1953	2001	2015	S25	E68	SF	C2.1	7345
16	2021	2030	2035				C3.9	
16	2130	2137	2203	S26	E69	SF	C3.7	7345
16	2326	2333	2339	S02	E90	SF	C3.5	

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GOES SOLAR X-RAY FLARES
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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
17	0055	0107	0111	S05	E85	SF	C1.2	7346
17	0250	0254	0256				C1.1	
17	0816	0833	0839				C1.6	
17	0929	0951	1002				C1.3	
17	1007	1012	1018				C1.3	
17	1145	1201	1211				C1.3	
17	1717	1719	1746	S31	E71	SF	C1.2	7345
18	0216	0223	0251	S18	W41	SF	C1.4	7341
18	0649	0650	0656	S24	E57	SF	C1.3	7345
18	1229	1248	1323				C1.1	
18	1902	1938	2331	S24	E46	2N	M1.3	7345
19	0238	0316	0331				C1.8	
19	1018	1019	1024	S06	E54	SF	B9.8	7346
19	2018	2026	2149	S28	E38	2B	C9.9	7345
19	2328	2341	2350	S22	E35	SF	C5.6	7345
20	0749	0815	0846				C1.3	
20	1042	1121	1142				C1.0	
20	1401	1422	1442				C1.1	
21	0710	0711	0726	S18	W89	SF	C5.0	7341
21	1426	1432	1434				C1.9	
21	1550E	1554U	1611D	S22	E09	SF	C1.5	7345
21	1959	2000	2037	S08	E21	SF	C1.2	7346
21	2231	2235	2238				C1.2	
22	0347	0351	0359	S08	E01	SF	C1.2	
22	1139	1143	1145D	N12	E81	SN	C3.3	7348
22	1301	1307	1310				M1.4	
22	1445	1534	1537				C1.6	
22	1706	1724	1736				C1.9	
22	1756	1800	1806				C3.0	
22	1957	2011	2021				C1.5	
22	2153	2207	2252				C1.7	
22	2258	2308	2326	N11	E76	2N	M1.6	7348
23	0232	0251	0307				C5.4	
23	0331	0344	0355	N09	E74	1F	C8.5	7348
23	0430	0432	0455	S09	W13	SN	C9.1	7347
23	0845	0853	0905	N09	E71	1N	C5.8	7348
23	0931	0947	1006	S09	W16	1F	C5.0	7347
23	1357	1359	1402	S08	W89	SF	C4.0	7342
23	1639	1645	1658				C2.4	
23	1742	1744	1800	S08	W20	SF	C2.4	7347
23	1923	1931	1952	S09	W20	SF	C4.3	7347
23	2018	2029U	2101D	S08	W89	SF	M4.4	7342
24	0059	0110	0126				C2.9	
24	0128	0131	0133				C3.0	
24	0158	0205	0215				C2.1	
24	0357	0401	0406				C1.5	
24	0534	0534	0547	S09	W83	SF	C1.8	7342
24	0837	0848	0857				C8.0	
24	0959	1005	1011				C6.9	
24	1154	1253	1307				C4.5	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
24	1413	1429	1451				C5.9	
24	1547	1604	1612				C5.4	
24	2028	2038	2050				C6.4	
25	0145	0158	0221				C2.6	
25	0239	0239	0302	N14	E53	SF	C2.3	7348
25	0722	0728	0745				C1.3	
25	1116	1125	1135				C1.7	
25	1221	1225	1229				C1.1	
26	0119	0119	0147	N10	E41	SF	C1.6	7348
26	0530	0539	0551				C3.4	
26	1244	1246	1310	N10	E31	SF	C2.8	7348
26	1530	1556	1607				C1.2	
26	2143	2145	2229	N09	E28	SF	C1.8	7348
27	1228	1248	1259				C8.5	
27	1400E	1403U	1420	N11	E18	SF	C2.5	7348
27	1705	1722	1747	N20	E16	SF	C1.1	7352
27	2035	2039	2044				B9.9	
27	2230	2241	2244	N11	E19	SF	C1.2	7348
28	0014	0015	0030	N12	E12	SF	C2.1	7348
28	0831	0831	0902	N12	E08	SF	B8.3	7348
28	0941	0942	0948	N13	E09	SF	C1.2	7348
28	1056	1059	1118	S14	E15	SF	B9.5	7351
28	1212	1214	1219	S10	W68	SF	C1.5	7346
28	1503	1509	1511				C1.2	
28	1531	1535	1542				B9.5	
28	1605	1606	1657	N11	E04	SF	C3.6	7348
28	1903	1934	2000	N11	E05	SN	C1.8	7348
28	2001	2017	2134	N12	E06	1N	C2.8	7348
28	2042	2050	2057				C3.1	
29	0057	0057	0114	N20	E02	SF	B7.7	7352
29	0242	0251	0301				B7.7	
29	0530	0532	0541	N12	W05	SF	B7.5	7348
29	0748	0754	0758				C1.2	
29	0815	0858	1032				C9.1	
29	1230	1233	1250	S16	W01	1N	M1.4	7351
29	1702	1708	1812	N12	W07	SF	C1.2	7348
29	1758	1820	1841				C1.1	
29	1937	1945	1957				C1.0	
29	2000	2009	2034	N20	W09	SF	C1.1	7352
29	2343	2349	2354	N12	W10	SF	C2.0	7348
30	0022	0024	0035D	N11	W15	SF	C1.4	7348
30	0144	0148	0200				C1.1	
30	0342	0346	0349				C1.2	
30	0447	0536	0554				C1.1	
30	0609	0627	0636				C1.0	
30	0649	0700	0708	N12	W14	SF	C1.4	7348
30	1245	1248	1304	N19	W21	SF	C5.5	7352
30	1511	1513	1518	N13	W19	SF	C1.4	7348
30	1537	1558	1707				C3.1	
30	1935E	1935U	2006	S05	E14	1N	M2.6	7353
30	2236	2242	2247				C1.7	

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

Preliminary GOES Satellite Data
Daily Average X-ray Background
Dec 1991 - Nov 1992

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

MASS EJECTIONS FROM THE SUN--PROXY DATA*

NOVEMBER 1992

Site	Mo	Day	— Observed UT —			Location		Freq or Wavelength	Kind of Event
			Start	Max	End	RA*	R/Ro		
VORO	Nov	01	0043	0120	0142	315	1	H-alpha	BSL
LEAR	Nov	02	0253.0		0302.0			Meter	II
LEAR	Nov	02	0302.0		1018.0			Meter	IV
KHAR	Nov	02	0915 E	0915 U	1205 D	245	1.00-1.11	H-alpha	S
POTS	Nov	09	1114.6		1120.5			170- 40 MHz	(IV,II)?
POTS	Nov	12	1141.2		1141.9			350- 40 MHz	IV? Reverse slope
WEIS	Nov	22	1307.9		1310.3			330-104 MHz	II Herringbone
ONDR	Nov	22	1308.0		1310.4			Decimeter; meter	IV
PALE	Nov	23	2026.0		2048.0			Meter	II
SGMR	Nov	23	2028.0		2035.0			Meter	II
IZMI	Nov	29	0828.8		0834.0			Meter	II
LEAR	Nov	29	0828.0		0836.0			Meter	II
KHAR	Nov	30	0955 E	1005 U	1040 D	307	0.45	H-alpha	S
SGMR	Nov	30	1927.0		1941.0			Meter	II
PALE	Nov	30	1927.0		2400.0			Meter	II

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

TYPE OF EVENT

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

REPORTING STATIONS

IZMI = IZMIRAN
KHAR = Kharkov
LEAR = Learmonth
ONDR = Ondrejov
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.

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMP	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
01	DSF	0017U	0100U	N42 E68	11	6.6		2	20	0	0	E	LEAR		
01	ASR	0050E	1015D	S26 W90	10	25.1			04	8	9	E	LEAR	7321	
01	APR	00930	09300	N35 E90	11	8.3						P	VALA		
01	AFS	0526E	1015D	S09 E81	11	7.3			03	8	8	E	LEAR		
01	ASR	0914E	0915D	S26 W90	10	25.5			02	7	7	E	SVTO	7321	
01	BSL	0946E	1008D	S12 W90	10	25.7		1				P	VALA		
01	ASR	1055E	1435D	S25 W90	10	25.6			02	9	9	E	RAMY	7321	
01	AFS	1103E	1435D	S09 E76	11	7.2			04	9	9	E	RAMY		
01	AFS	1110E	1435D	S15 W32	10	30.1			02	6	6	E	RAMY	7323	
01	AFS	1127E	1435D	S20 E47	11	5.1			01	9	9	E	RAMY		
01	SSB	1143		147 W65	11	5.7				0	0	E	RAMY		
01	AFS	1207E	1435D	S05 E00	11	1.5			02	9	9	E	RAMY	7326	
01	AFS	1211E	1435D	S07 W66	10	27.7			02	9	9	E	RAMY	7319	
01	SSB	1410		155 W75	11	6.6				0	0	E	HOLL		
01	DSD	1430E	2044D	S07 W06	11	1.1			02	9	9	E	HOLL	7326	
01	DSD	1430E	2044D	S12 W39	10	29.8			01	7	8	E	HOLL	7323	
01	DSD	1430E	2044D	S14 E05	11	2.0			02	8	9	E	HOLL	7325	
01	AFS	2230E	1016D	S16 W39	10	30.1			03	7	5	E	LEAR	7323	
01	AFS	2300E	1016D	S09 E75	11	7.6			03	7	6	E	LEAR	7330	
02	LPS	0310E	1016D	S26 W90	10	26.2			16	9	9	E	LEAR	7321	
02	APR	0635E	1230D	S30 W90	10	26.3						V	ATHN		
02	LPS	0817E	1349D	S25 W90	10	26.5		1	13	9	9	E	SVTO		Flare Associated
02	AFS	0900E	1349D	S44 W15	11	1.1			02	9	9	E	SVTO	7323	
02	APR	0915E	1205D	S25 W90	10	26.5		2				V	KHAR		
02	AFS	0939E	1349D	S07 W11	11	1.6			03	5	6	E	SVTO	7326	
02	LPS	1047E	1424D	S24 W90	10	26.6			17	9	9	E	RAMY		
02	DSD	1130E	1424D	S21 E02	11	2.6			02	9	9	E	RAMY	7325	
02	AFS	1135E	1424D	S08 E65	11	7.3			02	9	9	E	RAMY	7330	
02	DSD	1140E	1424D	S08 E66	11	7.4			02	9	9	E	RAMY	7330	
02	DSD	1143E	1424D	S10 W77	10	27.8			02	9	9	E	RAMY	7319	
02	AFS	1145E	1424D	S15 W45	10	30.2			03	9	9	E	RAMY	7323	
02	AFS	1202E	1349D	S06 E64	11	7.3			02	9	9	E	SVTO	7330	
02	AFS	1208E	1349D	N15 W24	10	31.7			01	9	9	E	SVTO	7324	
02	AFS	1214E	1349D	N06 W13	11	1.5			01	9	9	E	SVTO	7326	
02	SSB	1222		442 W14	10	30.4				0	0	E	SVTO		
02	LPS	1340E	2312D	S26 W90	10	26.7			08	9	9	E	HOLL		
02	SSB	1425		453 W26	10	29.6				0	0	E	HOLL		
02	AFS	1625E	2312D	S09 E62	11	7.3			05	9	9	E	HOLL	7330	
02	AFS	1625E	2312D	S14 W51	10	29.9			03	9	9	E	HOLL	7323	
02	DSD	1625E	2312D	S17 W09	11	2.0			04	9	9	E	HOLL	7325	
02	LPS	1843E	0030D	S26 W90	10	26.9			12	9	9	E	PALE		
02	AFS	1845E	0337D	S05 W15	11	1.6			02	9	9	E	PALE	7326	
02	DSD	1845E	0337D	S07 W16	11	1.6			03	9	9	E	PALE	7326	
02	AFS	1845E	0337D	S14 W51	10	30.0			02	9	9	E	PALE	7323	
02	DSD	1845E	0337D	S17 W50	10	30.1			02	9	9	E	PALE	7323	
02	DSD	1847E	0337D	N13 W29	10	31.6			01	9	9	E	PALE	7324	
02	ADF	1847E	0337D	N16 W25	10	31.9		1	03	9	9	E	PALE	7324	
02	DSD	1847E	0337D	S08 E63	11	7.5			04	9	9	E	PALE	7330	
02	AFS	1847E	0337D	S16 W10	11	2.0			02	9	9	E	PALE	7325	
02	DSD	1847E	0337D	S19 W11	11	1.9			02	9	9	E	PALE	7325	
02	SSB	1852		438 W13	10	31.0				0	0	E	PALE		117 W52
02	AFS	2330E	1017D	S16 W56	10	29.8			03	9	9	E	LEAR	7323	
02	AFS	2331E	1017D	S08 E57	11	7.2			02	9	9	E	LEAR	7330	
02	ADF	2332E	1017D	N16 W28	10	31.8		1	04	9	9	E	LEAR	7324	
03	APR	0232E	0337D	N29 E90	11	10.2		1	05	6	5	E	PALE		
03	APR	0730E	1200D	N35 W90	10	27.2						V	ATHN		
03	AFS	0800E	1435D	S08 E55	11	7.4			02	9	9	E	SVTO	7330	
03	AFS	0802E	1435D	S13 W59	10	30.0			02	9	9	E	SVTO	7323	
03	DSD	0848E	1435D	S09 E51	11	7.2			02	9	9	E	SVTO	7330	
03	ADF	0931E	1435D	S16 W16	11	2.2		1	08	9	9	E	SVTO	7325	
03	AFS	1116E	1232D	S09 E52	11	7.4			03	9	9	E	RAMY	7330	
03	AFS	1135E	1232D	S15 W61	10	30.0			02	9	9	E	RAMY	7323	
03	DSD	1145E	1232D	S10 E52	11	7.4			03	9	9	E	RAMY	7330	
03	DSF	2159U	1455U	N26 W32	11	1.4			05	0	0	E	HOLL		
03	DSD	2300E	2337D	N06 E58	11	8.3			04	9	9	E	HOLL		
03	AFS	2300E	2337D	S21 W14	11	2.9			03	9	9	E	HOLL		
03	DSD	2346E	0212D	S07 W35	11	1.4			04	9	9	E	LEAR	7326	
03	AFS	2346E	0212D	S21 W13	11	3.0			03	9	9	E	LEAR		

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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
04	APR	0849E	1444D	S27	E90	11 11.4	1	07	8	7	E	SVTO		
04	AFS	0851E	1444D	S20	W18	11 3.0		04	9	9	E	SVTO		
04	SSB	0934		427	W24	11 2.3			0	0	E	SVTO		
04	AFS	1154E	1634D	S10	E39	11 7.4		02	9	9	E	RAMY	7330	
04	DSD	1208E	1511D	N22	E60	11 9.1		03	9	9	E	RAMY		
04	ADF	1210E	1634D	N18	W48	10 31.8	1	03	9	9	E	RAMY	7324	
04	DSD	1210E	1444D	S05	W41	11 1.4		03	9	9	E	SVTO	7326	
04	ASR	1420E	2359D	S19	E90	11 11.5		02	9	9	E	HOLL		
04	AFS	1435E	2359D	S25	W21	11 3.0		02	9	9	E	HOLL		
04	DSF	1444U	0814U	S11	W12	11 3.7	2	19	0	0	E	SVTO		
04	DSF	1455U	2136U	S11	W17	11 3.3		18	0	0	E	HOLL		
04	AFS	1607E	2359D	S11	E36	11 7.4		01	9	9	E	HOLL	7330	
04	DSD	1637E	2359D	S07	W45	11 1.3		05	9	9	E	HOLL	7326	
04	DSD	2011E	0135D	S08	E35	11 7.5		02	9	9	E	PALE	7330	
04	ADF	2011E	0135D	S13	W18	11 3.5	1	14	9	9	E	PALE	7332	
04	SSB	2022		430	W33	11 2.5			0	0	E	PALE		
04	ASR	2044E	0135D	S14	W90	10 29.2		02	7	8	E	PALE	7323	
04	AFS	2242E	0135D	S05	E32	11 7.3		01	9	9	E	PALE	7330	
05	AFS	0009E	0135D	S10	W14	11 3.9		01	9	9	E	PALE		
05	ASR	0107E	0135D	N16	E90	11 11.9		02	9	9	E	PALE		
05	ADF	0248E	0922D	N16	W58	10 31.7	1	06	9	9	E	LEAR	7324	
05	ASR	0807E	1345D	S20	W83	10 30.1		05	9	9	E	SVTO	7323	
05	ASR	0824E	1345D	S18	E90	11 12.2		10	9	9	E	SVTO		
05	ADF	0907E	1345D	S21	W31	11 3.0	1	08	9	9	E	SVTO	7332	
05	DSD	0907E	1345D	S23	W28	11 3.2		04	9	9	E	SVTO	7332	
05	DSD	0922E	1006D	S08	E29	11 7.6		03	9	9	E	LEAR	7330	
05	ASR	0923E	1006D	S18	W90	10 29.6		03	9	9	E	LEAR	7323	
05	ASR	0924E	1006D	N15	E90	11 12.2		07	9	9	E	LEAR		
05	DSD	1124E	1659D	S18	W37	11 2.6		02	9	9	E	RAMY	7332	
05	DSD	1124E	1659D	S22	W31	11 3.1		02	9	9	E	RAMY	7332	
05	APR	1129E	2045D	S16	W90	10 29.7	1	02	9	9	E	RAMY	7323	
05	ASR	1134E	1650D	S18	E82	11 11.7		02	9	9	E	RAMY		
05	DSD	1137E	2045D	N13	E78	11 11.4		02	9	9	E	RAMY		
05	ADF	1247E	1623D	N18	W65	10 31.6	1	03	9	9	E	RAMY	7324	
05	AFS	1248E	1614D	S05	W54	11 1.5		02	9	9	E	RAMY	7326	
05	ADF	1250E	2045D	N20	E47	11 9.1	1	04	9	9	E	RAMY		
05	DSD	1258E	1721D	S07	E25	11 7.4		01	9	9	E	RAMY	7330	
05	SSB	1313		405	W17	11 5.2			0	0	E	RAMY		451 W63
05	SSB	2136		435	W51	11 2.9			0	0	E	HOLL		
05	DSD	2220E	2340D	S09	E12	11 6.8		02	9	9	E	HOLL	7330	
05	ASR	2220E	2340D	S15	W90	10 30.2		02	9	9	E	HOLL	7323	
05	DSD	2220E	2340D	S23	W39	11 2.9		02	9	9	E	HOLL	7332	
05	DSD	2340E	0530D	S08	E12	11 6.9		04	9	9	E	LEAR	7330	
06	AFS	0733E	1510D	S25	W46	11 2.7		03	7	7	E	SVTO	7332	
06	ADF	0734E	1510D	S22	W45	11 2.8		06	7	7	E	SVTO	7332	
06	ADF	0750E	1510D	S08	E19	11 7.7		04	9	9	E	SVTO	7330	
06	AFS	0751E	1427D	S08	E12	11 7.2		02	9	9	E	SVTO	7330	
06	AFS	0800E	1510D	N15	E69	11 11.5		02	9	9	E	SVTO	7334	
06	AFS	0836E	1510D	S08	W64	11 1.5		01	8	7	E	SVTO	7326	
06	DSD	0912	0940D	S09	E17	11 7.6		02	9	9	E	SVTO	7330	
06	AFS	1149E	2126D	S08	E07	11 7.0		02	9	9	E	RAMY	7330	
06	AFS	1338E	1510D	S09	E07	11 7.1		02	9	9	E	SVTO	7330	
06	AFS	1427E	1510D	S11	E11	11 7.4		02	9	9	E	SVTO	7330	
06	AFS	1518E	2126D	N13	E64	11 11.5		03	9	9	E	RAMY	7334	
06	DSD	1530E	2357D	S06	W67	11 1.6		02	9	4	E	HOLL	7326	
06	DSD	1545E	2357D	S09	E12	11 7.5		02	9	9	E	HOLL	7330	
06	AFS	1550E	2357D	S19	E66	11 11.7		02	9	8	E	HOLL	7335	
06	AFS	1555E	2357D	N12	E63	11 11.4		02	9	9	E	HOLL	7334	
06	SSB	1602		444	W70	11 2.7			0	0	E	RAMY		
06	AFS	1630E	2126D	S16	W69	11 1.4		02	8	8	E	RAMY	7325	
06	AFS	1631E	2126D	S15	W74	11 1.1		02	8	8	E	RAMY	7325	
06	ADF	1637E	2126D	S18	W56	11 2.4	1	11	9	9	E	RAMY	7332	
06	AFS	1800E	0239D	S05	E08	11 7.3		02	9	9	E	PALE	7330	
06	DSD	1800E	0239D	S06	E09	11 7.4		02	9	9	E	PALE	7330	
06	DSD	1800E	0239D	S07	E06	11 7.2		02	9	9	E	PALE	7330	
06	ADF	1800E	0239D	S19	W58	11 2.3	1	03	9	9	E	PALE	7325	
06	ADF	1800E	0239D	S20	W56	11 2.5	1	06	9	9	E	PALE	7332	

ACTIVE PROMINENCES AND FILAMENTS

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NOVEMBER 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
06	SSB	1820		382	W10	10 31.6			0	0	E	PALE		418 W46
06	SSB	1946		442	W70	11 3.0			0	0	E	HOLL		
06	ADF	2241E	2357D	S20	W54	11 2.8	1	06	9	9	E	HOLL	7332	
06	DSD	2308E	0845D	S08	W02	11 6.8		03	7	6	E	LEAR	7330	
06	AFS	2309E	1015D	N13	E59	11 11.4		02	9	9	E	LEAR	7334	
06	ADF	2310E	1015D	S20	W55	11 2.7	1	07	9	9	E	LEAR	7332	
07	BSD	0253	0302	S21	E69	11 12.4		11	9	9	E	LEAR	7335	Flare Associated
07	AFS	0815E	1155D	N15	E53	11 11.3		02	9	9	E	SVTO	7334	
07	AFS	0837E	1155D	S08	E02	11 7.5		02	9	9	E	SVTO	7330	
07	AFS	1121E	1511D	S05	E00	11 7.5		01	8	8	E	RAMY	7330	
07	ASR	1129E	1433D	S01	W90	10 31.7		01	8	8	E	RAMY	7326	
07	AFS	1136E	1933D	S17	E56	11 11.7		02	9	9	E	RAMY	7335	
07	AFS	1210E	1933D	S18	W66	11 2.5		03	9	9	E	RAMY	7325	
07	SSB	1410		369	W08	11 2.4			0	0	E	HOLL		
07	DSD	1455E	1945D	N09	E48	11 11.2		02	9	9	E	HOLL	7334	
07	AFS	1455E	2356D	N12	E51	11 11.5		02	9	9	E	HOLL	7334	
07	DSD	1455E	2356D	S06	E00	11 7.6		01	8	7	E	HOLL	7330	
07	ADF	1455E	2356D	S18	W65	11 2.7	1	07	9	9	E	HOLL	7332	
07	AFS	1455E	2356D	S19	E53	11 11.7		02	6	6	E	HOLL	7335	
07	AFS	1601E	1933D	N10	W70	11 2.4		02	9	9	E	RAMY		
07	AFS	1605E	2356D	N12	W70	11 2.4		02	9	9	E	HOLL		
07	DSF	1613U	1620U	S19	W67	11 2.6	3	09	9	9	E	HOLL	7332	Flare Associated
07	BSD	1625E	1940D	S19	W69	11 2.4		10	9	9	E	HOLL	7332	Flare Associated
07	BSD	1629E	1711D	S24	W63	11 2.8		18	9	9	E	RAMY	7332	Flare Associated
07	ASR	1719E	1933D	S08	W90	11 1.0		02	9	9	E	RAMY	7326	
07	DSD	1730E	1933D	S08	W04	11 7.4		02	9	9	E	RAMY	7330	
07	AFS	1815E	0314D	N12	E47	11 11.3		02	9	9	E	PALE	7334	
07	DSD	1815E	0314D	N15	E49	11 11.5		02	9	9	E	PALE	7334	
07	DSD	1815E	0314D	S07	W04	11 7.5		02	9	9	E	PALE	7330	
07	AFS	1815E	0314D	S08	W07	11 7.2		02	9	9	E	PALE	7330	
07	DSD	1815E	0314D	S20	W69	11 2.5		02	9	9	E	PALE	7332	
07	ADF	1815E	0314D	S24	W60	11 3.1	1	06	8	8	E	PALE	7332	
07	ADF	1817E	0314D	N11	E14	11 8.8	1	06	8	8	E	PALE	7332	
07	ASR	1817E	0314D	N15	W90	10 31.9		05	9	9	E	PALE	7324	
07	AFS	1817E	0314D	S17	E54	11 11.9		02	9	9	E	PALE	7335	
07	DSD	1817E	0314D	S17	E56	11 12.0		02	9	9	E	PALE	7335	
07	AFS	1820E	0314D	N08	W72	11 2.4		02	9	9	E	PALE		
07	SSB	1825		382	W23	11 1.4			0	0	E	PALE		421 W62
07	AFS	2303E	0836D	S02	W08	11 7.4		03	6	4	E	LEAR	7330	
08	ADF	0040E	0836D	S11	W07	11 7.5	1	07	6	6	E	LEAR	7330	
08	AFS	0245E	0836D	N15	E43	11 11.4		03	5	5	E	LEAR	7334	
08	AFS	0940E	1450D	N15	E40	11 11.4		03	9	9	E	SVTO	7334	
08	AFS	0940E	1450D	S08	W13	11 7.4		02	9	9	E	SVTO	7330	
08	ADF	0940E	1450D	S09	W19	11 7.0	1	07	9	9	E	SVTO	7330	
08	AFS	0940E	1450D	S10	W22	11 6.7		01	9	9	E	SVTO	7330	
08	DSD	1220E	1450D	S08	W11	11 7.7		03	9	9	E	SVTO	7330	
08	DSD	1225E	1450D	S21	W75	11 2.8		02	9	9	E	SVTO	7332	
08	DSD	1240E	1450D	S15	E46	11 12.0		02	9	9	E	SVTO	7335	
08	AFS	1240E	1450D	S16	E44	11 11.9		02	9	9	E	SVTO	7335	
08	DSD	1248E	1450D	N09	W02	11 8.4		01	9	9	E	SVTO	7333	
08	AFS	1248E	1450D	N19	E09	11 9.2		01	9	9	E	SVTO		
08	AFS	1435E	2356D	S08	W16	11 7.4		01	9	9	E	HOLL	7330	
08	ADF	1435E	2356D	S08	W18	11 7.2	1	02	9	9	E	HOLL	7330	
08	SSB	1440		366	W18	11 3.6			0	0	E	HOLL		
08	DSD	1708E	1812D	S04	W15	11 7.6		02	9	9	E	RAMY	7330	
08	DSD	1715E	1812D	N12	E30	11 11.0		02	9	9	E	RAMY	7334	
08	ASR	1719E	1812D	N10	W89	11 2.0		02	9	9	E	RAMY		
08	DSD	1723E	1812D	S16	E41	11 11.8		02	9	9	E	RAMY	7335	
08	AFS	1723E	1812D	S17	E40	11 11.8		02	9	9	E	RAMY	7335	
08	AFS	1830E	0332D	N14	E35	11 11.4		02	9	9	E	PALE	7334	
08	AFS	1830E	0332D	S13	W17	11 7.5		02	9	9	E	PALE	7330	
08	ASR	1838E	0332D	N10	W90	11 2.0		01	9	9	E	PALE		
08	DSD	1845E	0332D	S16	E42	11 12.0		01	9	9	E	PALE	7335	
08	ASR	1905E	2356D	N09	W90	11 2.0		05	9	9	E	HOLL		
08	ASR	1955E	2356D	S15	W90	11 2.0		03	9	9	E	HOLL	7325	
08	ASR	2000E	0332D	S16	W90	11 2.0		02	9	9	E	PALE	7325	
08	ADF	2217E	0332D	S09	W28	11 6.8	1	01	9	9	E	PALE	7330	
08	AFS	2325E	0927D	S08	W20	11 7.5		02	9	9	E	LEAR	7330	

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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	ASR	0810E	1019D	S21	W90	11 2.4		02	8	8	E	LEAR		
09	ASR	0900E	1350D	N10	W90	11 2.6		01	9	9	E	SVTO		
09	AFS	0900E	1455D	N10	E25	11 11.2		02	9	9	E	SVTO	7334	
09	AFS	0900E	1455D	N13	E27	11 11.4		02	9	9	E	SVTO	7334	
09	AFS	0900E	1455D	N15	E27	11 11.4		03	9	9	E	SVTO	7334	
09	AFS	0900E	1455D	S06	W22	11 7.7		02	9	9	E	SVTO	7330	
09	AFS	0900E	1455D	S09	W24	11 7.6		01	9	9	E	SVTO	7330	
09	ADF	0900E	1455D	S11	W30	11 7.1	1	07	9	9	E	SVTO	7330	
09	AFS	0900E	1455D	S17	E34	11 11.9		03	9	9	E	SVTO	7335	
09	ASR	0900E	1455D	S21	W90	11 2.5		02	9	9	E	SVTO	7332	
09	AFS	1118E	1823D	S08	W25	11 7.6		02	9	9	E	RAMY	7330	
09	DSD	1118E	1923D	S05	W25	11 7.6		02	9	9	E	RAMY	7330	
09	AFS	1123E	1923D	S16	E32	11 11.9		02	9	9	E	RAMY	7335	
09	AFS	1125E	1923D	N07	W36	11 6.8		02	9	9	E	RAMY	7336	
09	ASR	1126E	1923D	S18	W90	11 2.6		02	9	9	E	RAMY	7332	
09	SSB	1133		S35	W17	11 5.4			0	0	E	RAMY		366 W31 400 W64
09	AFS	1137E	1455D	N05	W38	11 6.6		02	9	9	E	SVTO		
09	AFS	1507E	2356D	N08	W42	11 6.5		02	9	9	E	HOLL		
09	ASR	1516E	1923D	N11	E90	11 16.4		03	4	9	E	RAMY		
09	ASR	1531E	2356D	S21	W90	11 2.7		01	6	6	E	HOLL	7332	
09	ASR	1535E	1652D	S05	E90	11 16.4		02	9	9	E	RAMY		
09	CAP	1535E	1801D	S04	E90	11 16.4		01	9	9	E	RAMY		
09	CAP	1615E	1823D	S05	E90	11 16.4		01	7	6	E	HOLL		
09	ASR	1650E	2356D	N00	E90	11 16.4		01	7	7	E	HOLL		
09	DSF	1738U	1412U	S02	E74	11 15.3		15	0	0	E	HOLL		
09	APR	1801E	1923D	S04	E90	11 16.5	1	03	9	9	E	RAMY		
09	APR	1823E	2356D	S07	E90	11 16.5	1	14	9	9	E	HOLL		
09	ADF	1829E	0252D	S20	E35	11 12.4	1	04	9	9	E	PALE	7335	
09	DSD	1835E	0252D	N11	E15	11 10.9		02	9	9	E	PALE	7334	
09	DSD	1835E	0252D	N15	E20	11 11.3		03	9	9	E	PALE	7334	
09	ASR	1850E	0252D	S25	W90	11 2.8		02	9	9	E	PALE	7332	
09	AFS	1903E	0252D	N05	W44	11 6.5		02	9	9	E	PALE	7336	
09	APR	1917E	0252D	S04	E90	11 16.5	2	13	6	5	E	PALE		
09	DSD	2112E	0252D	N12	E12	11 10.8		03	9	9	E	PALE	7334	
09	ADF	2112E	0252D	N28	E01	11 10.0	1	12	9	9	E	PALE		
09	ASR	2201E	0252D	N07	E90	11 16.6		01	9	9	E	PALE		
09	ASR	2314E	2356D	S16	W90	11 3.1		06	9	9	E	HOLL		
09	DSD	2328E	1022D	S20	E26	11 12.0		03	9	9	E	LEAR	7335	
09	DSD	2329E	1022D	S17	E28	11 12.1		03	9	9	E	LEAR	7335	
09	AFS	2330E	1022D	N06	W47	11 6.5		02	9	9	E	LEAR	7336	
09	ASR	2331E	1022D	N05	E90	11 16.7		02	9	9	E	LEAR		
09	ADF	2332E	1022D	N04	E75	11 15.6	1	15	9	9	E	LEAR		
09	BSL	2350E	0018D	S22	W90	11 3.1		08	9	9	E	PALE	7332	
10	AFS	0039E	1022D	S27	W67	11 4.8		01	9	9	E	LEAR		
10	ASR	0425E	1022D	S23	W90	11 3.2		03	9	9	E	LEAR	7332	
10	AFS	0745E	1403D	S08	E40	11 13.3		01	3	3	E	SVTO	7330	
10	AFS	0752E	1403D	S17	E20	11 11.8		02	9	9	E	SVTO	7335	
10	DSD	0754E	1403D	S18	E25	11 12.2		01	9	9	E	SVTO	7335	
10	ASR	0830E	1022D	S05	E90	11 17.1		02	9	9	E	LEAR		
10	AFS	1037E	1403D	N05	W53	11 6.5		01	9	9	E	SVTO	7336	
10	ASR	1042E	1403D	S24	W74	11 4.7		02	9	9	E	SVTO	7332	
10	ADF	1100E	1403D	N12	E13	11 11.4	1	05	9	9	E	SVTO	7334	
10	BSL	1215E	1233	S10	E90	11 17.3		18	9	9	E	SVTO		Flare Associated
10	AFS	1429E	2352D	S16	E16	11 11.8		02	9	9	E	HOLL	7335	
10	AFS	1450E	1905D	S17	E15	11 11.7		02	9	9	E	RAMY	7335	
10	AFS	1452E	1905D	S10	W44	11 7.3		02	9	9	E	RAMY	7330	
10	ASR	1454E	1905D	S03	E79	11 16.5		06	9	9	E	RAMY		
10	DSD	1515E	1905D	N09	E09	11 11.3		03	9	9	E	RAMY	7334	
10	AFS	1517E	1905D	N05	W56	11 6.4		02	9	9	E	RAMY	7336	
10	APR	1520E	1905D	S35	E90	11 17.8	1	05	9	9	E	RAMY		
10	AFS	1643E	1905D	N05	W06	11 10.2		01	9	9	E	RAMY		
10	AFS	1644E	1905D	S42	E16	11 12.0		01	9	9	E	RAMY		
10	DSD	1733E	0314D	N13	E06	11 11.2		01	9	9	E	PALE	7334	
10	ADF	1733E	0314D	S19	E11	11 11.6	1	02	9	9	E	PALE	7335	
10	ASR	1741E	2352D	S13	E90	11 17.5		04	9	9	E	HOLL		
10	AFS	1750E	0314D	N03	W59	11 6.3		01	9	9	E	PALE	7336	
10	AFS	1750E	0314D	N05	W08	11 10.1		01	9	9	E	PALE		
10	AFS	1815E	0314D	S16	E43	11 14.0		01	9	9	E	PALE		

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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
10	ASR	2005E	0314D	N06	E90	11 17.6		02	9	9	E	PALE	7337	
10	ASR	2005E	0314D	S05	E90	11 17.6		02	9	9	E	PALE		
10	ASR	2218E	2341D	S25	W90	11 3.9		02	9	9	E	PALE		
10	AFS	2325E	1021D	N06	W10	11 10.2		02	9	9	E	LEAR		
10	AFS	2326E	0234D	S17	E40	11 14.0		01	9	9	E	LEAR		
11	ADF	0548E	1021D	N10	W03	11 11.0	1	05	9	9	E	LEAR	7334	
11	DSD	1119E	2115D	S11	W60	11 6.9		02	9	9	E	RAMY	7330	
11	AFS	1146E	1322D	S18	E05	11 11.9		03	9	9	E	SVTO	7335	
11	AFS	1150E	1322D	N14	W01	11 11.4		01	9	9	E	SVTO	7334	
11	SSB	1153		346	W45	11 7.7			0	0	E	SVTO		
11	AFS	1211E	2115D	S05	E69	11 16.7		02	9	9	E	RAMY		
11	AFS	1224E	1322D	N05	W17	11 10.2		01	6	6	E	SVTO		
11	SSB	1515		321	W13	11 10.0			0	0	E	HOLL		
11	ADF	1515E	2355D	N05	E71	11 16.9		05	9	9	E	HOLL	7337	
11	AFS	1515E	2355D	N10	W05	11 11.2		01	9	9	E	HOLL	7334	
11	AFS	1515E	2355D	S16	E02	11 11.8		02	9	9	E	HOLL	7335	
11	AFS	1527E	2115D	S07	E49	11 15.3		01	9	9	E	RAMY		
11	AFS	1711E	2115D	S17	E01	11 11.8		01	9	9	E	RAMY	7335	
11	DSD	1723E	2115D	N07	E70	11 17.0		05	9	9	E	RAMY	7337	
11	SSB	1753		331	W24	11 9.3			0	0	E	RAMY		
11	AFS	1945E	2355D	S17	E26	11 13.8		02	9	9	E	HOLL		
11	AFS	2348E	1023D	S17	E27	11 14.0		01	9	9	E	LEAR		
11	ADF	2350E	1023D	N11	W07	11 11.5	1	05	9	9	E	LEAR	7334	
12	AFS	1104E	2125D	S17	E19	11 13.9		02	9	9	E	RAMY		
12	SSB	1116		317	W20	11 11.2			0	0	E	RAMY		331 W34 370 W73
12	AFS	1132E	2130D	S07	W69	11 7.3		02	9	9	E	RAMY	7330	
12	AFS	1135E	2125D	S06	E59	11 16.9		01	9	9	E	RAMY		
12	DSD	1208E	1806D	N07	E60	11 17.0		02	9	9	E	RAMY	7337	
12	SSB	1426		316	W21	11 11.4			0	0	E	SVTO		335 W40
12	DSD	1644E	1805D	S07	W70	11 7.4		07	9	9	E	RAMY	7330	
12	ADF	1655E	2125D	N03	E56	11 16.9	3	07	9	9	E	RAMY	7337	
12	DSD	1818E	2125D	S20	W07	11 12.2		02	9	9	E	RAMY	7335	
12	ADF	1853E	2354D	N10	E57	11 17.1	1	06	9	9	E	HOLL	7337	
12	AFS	1853E	2354D	S07	E53	11 16.7		02	9	9	E	HOLL		
12	SSB	1900		335	W42	11 9.9			0	0	E	HOLL		
12	AFS	1935E	0327D	S12	W69	11 7.6		03	8	8	E	PALE	7330	
12	DSD	1935E	0327D	S13	W07	11 12.3		02	9	9	E	PALE	7335	
12	ADF	1935E	0327D	S19	W16	11 11.6	1	03	9	9	E	PALE	7335	
12	DSD	1937E	0327D	N08	E58	11 17.2		02	9	9	E	PALE	7337	
12	ADF	1937E	0327D	N08	E60	11 17.3	1	05	9	9	E	PALE	7337	
12	AFS	1937E	0327D	N13	E58	11 17.2		02	9	9	E	PALE	7337	
12	APR	1938E	0327D	N16	W90	11 6.0		03	9	9	E	PALE		
12	AFS	1938E	0327D	S06	E35	11 15.4		02	9	9	E	PALE		
12	SSB	1940		340	W47	11 9.5			0	0	E	PALE		369 W76
12	ASR	2255E	0327D	S12	E90	11 19.7		08	8	9	E	PALE		
13	ADF	0050E	1022D	N05	E56	11 17.2	1	05	9	9	E	LEAR	7337	
13	SSB	0659		318	W32	11 11.9			0	0	E	SVTO		
13	AFS	0710E	0000D	N06	W23	11 11.6		02	9	9	E	SVTO	7334	
13	ADF	0710E	0000D	N09	W26	11 11.3	1	05	9	9	E	SVTO	7334	
13	DSD	1114E	1722D	S15	W15	11 12.3		02	9	9	E	RAMY	7335	
13	ADF	1122E	1722D	N08	E50	11 17.2	1	06	9	9	E	RAMY	7337	
13	AFS	1504E	1725D	N21	W16	11 12.4	1	02	9	9	E	HOLL		
13	DSD	1507E	1755D	N05	E43	11 16.8		02	9	9	E	HOLL	7337	
13	MOP	1810E	2354D	S03	W90	11 7.0		01	9	9	E	HOLL		
13	ASR	2025E	2354D	S08	W90	11 7.1		03	9	9	E	HOLL	7330	
13	ADF	2030E	2042D	N05	E43	11 17.1	1	06	9	9	E	PALE	7337	
13	DSD	2030E	2042D	N10	E44	11 17.2		02	9	9	E	PALE	7337	
13	DSD	2030E	2042D	S17	W25	11 11.9		03	9	9	E	PALE	7335	
13	AFS	2030E	2042D	S20	W21	11 12.2		02	9	9	E	PALE	7335	
13	ADF	2220E	2354D	N06	E44	11 17.2	1	05	9	9	E	HOLL	7337	
13	AFS	2250E	1025D	S16	E18	11 15.3		02	9	9	E	LEAR		
14	AFS	0850E	1503D	N09	W43	11 11.1		03	9	9	E	SVTO		
14	AFS	0850E	1503D	N13	W39	11 11.4		02	9	9	E	SVTO	7334	
14	ADF	0930E	1503D	N08	E38	11 17.2	1	05	9	9	E	SVTO	7337	
14	AFS	0930E	1503D	N10	E39	11 17.3		02	9	9	E	SVTO	7337	
14	DSD	1059E	1508D	S08	E33	11 16.9		03	9	9	E	SVTO		

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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	DSD	1142E	1744D	S20	W31	11 12.1		02	7	8	E	RAMY	7335	
14	AFS	1148E	1744D	N10	E38	11 17.3		02	9	9	E	RAMY	7337	
14	AFS	1149E	1744D	N03	E33	11 16.9		02	9	9	E	RAMY	7337	
14	AFS	1201E	1744D	S15	W37	11 11.7		02	9	9	E	RAMY	7335	
14	AFS	1420E	2353D	S09	E40	11 17.6		02	8	8	E	HOLL		
14	ADF	1425E	1504D	S10	E31	11 16.9	1	07	8	8	E	HOLL		
14	AFS	1537E	1744D	N14	W44	11 11.3		02	9	9	E	RAMY	7334	
14	AFS	1559E	1744D	S08	E39	11 17.6		01	9	9	E	RAMY		
14	AFS	1608E	1744D	N09	E53	11 18.6		02	8	8	E	RAMY		
14	ADF	1609E	1744D	N04	E31	11 17.0	1	08	9	9	E	RAMY	7337	
14	SSB	1645		272	W04	11 20.1			0	0	E	HOLL		
14	AFS	1830E	0218D	S07	E39	11 17.7		02	9	9	E	PALE	7342	
14	DSD	1830E	0218D	S17	W37	11 11.9		04	9	9	E	PALE	7335	
14	SSB	2109		274	W09	11 20.4			0	0	E	PALE		
14	AFS	2133E	0218D	N07	E28	11 17.0		02	9	9	E	PALE	7337	
15	AFS	0100E	0218D	S07	E62	11 19.7		03	9	9	E	PALE	7340	
15	DSD	0107E	0218D	N05	E27	11 17.1		01	9	9	E	PALE	7337	
15	DSD	0107E	0218D	N06	E28	11 17.1		01	9	9	E	PALE	7337	
15	AFS	0745E	1509D	S06	E31	11 17.6		02	9	9	E	SVTO	7342	
15	SSB	1104		272	W15	11 20.9			0	0	E	RAMY		
15	AFS	1128E	2043D	N13	W57	11 11.2		01	9	9	E	RAMY	7334	
15	AFS	1134E	1627D	N10	E22	11 17.1		03	8	8	E	RAMY	7337	
15	AFS	1211E	2043D	S09	E52	11 19.4		02	9	9	E	RAMY	7340	
15	ADF	1213E	1627D	S09	E55	11 19.6	1	05	9	9	E	RAMY	7340	
15	AFS	1228E	2043D	S08	E28	11 17.6		02	9	9	E	RAMY	7342	
15	AFS	1233E	2043D	S15	E74	11 21.1		02	9	9	E	RAMY	7344	
15	ASR	1235E	2043D	S24	E90	11 22.5		06	9	8	E	RAMY		
15	AFS	1357E	1509D	S19	W22	11 13.9		03	8	8	E	SVTO	7339	
15	ASR	1358E	1509D	S23	E90	11 22.5		03	9	9	E	SVTO		
15	DSD	1424E	2043D	S20	W49	11 11.8		08	9	9	E	RAMY	7335	
15	ASR	1455E	2352D	S25	E90	11 22.6		03	9	9	E	HOLL		
15	ASR	1500E	2352D	S14	E90	11 22.4		01	8	8	E	HOLL		
15	DSD	1525E	2352D	S19	W49	11 11.9		05	9	9	E	HOLL	7335	
15	ADF	1627E	2043D	N14	E19	11 17.1	1	04	9	9	E	RAMY	7337	
15	SSB	1650		273	W18	11 21.3			0	0	E	HOLL		
15	ASR	2222E	0336D	S26	E90	11 22.9		01	9	9	E	PALE		
15	DSD	2233E	0336D	N09	E11	11 16.8		01	9	9	E	PALE	7337	
15	DSD	2233E	0336D	N09	E11	11 16.8		01	9	9	E	PALE	7337	
15	AFS	2256E	0336D	S10	E45	11 19.3		02	9	9	E	PALE	7340	
15	AFS	2256E	0336D	S10	E45	11 19.3		02	9	9	E	PALE	7340	
15	ADF	2315E	0336D	S04	E12	11 16.9	1	03	9	9	E	PALE		
15	AFS	2325E	1024D	S13	E46	11 19.4		01	9	9	E	LEAR	7340	
15	AFS	2326E	1024D	S08	E22	11 17.6		02	9	9	E	LEAR	7342	
15	APR	2327E	0850D	S28	E90	11 23.0	1	03	9	9	E	LEAR		
16	AFS	0103E	0336D	S06	E21	11 17.6		02	9	9	E	PALE	7342	
16	ASR	0125E	0850D	S26	E90	11 23.0		02	4	8	E	LEAR		
16	ASR	0150E	0336D	S09	E90	11 22.8		03	9	9	E	PALE		
16	ADF	0505E	1024D	N06	E11	11 17.0	1	04	9	9	E	LEAR	7337	
16	DSD	0505E	1024D	S14	W16	11 15.0		02	9	9	E	LEAR	7341	
16	DSD	0505E	1024D	S18	W55	11 12.0		02	8	8	E	LEAR	7335	
16	ASR	1008E	1248D	S03	E90	11 23.1		02	9	9	E	SVTO		
16	SSB	1009		273	W28	11 22.1			0	0	E	SVTO		
16	AFS	1059E	2125D	S16	W58	11 12.0		02	6	7	E	RAMY	7335	
16	DSD	1059E	2125D	S17	W61	11 11.8		01	9	9	E	RAMY	7335	
16	DSD	1102E	2125D	N08	E07	11 17.0		03	9	9	E	RAMY	7337	
16	DSD	1110E	2125D	S13	E61	11 21.1		01	9	9	E	RAMY	7344	
16	APR	1111E	2125D	S03	E90	11 23.2	1	02	9	9	E	RAMY		
16	LPS	1114E	1540D	S20	E79	11 22.5		05	9	9	E	RAMY	7345	
16	LPS	1116E	1248D	S19	E82	11 22.7		08	9	9	E	SVTO		Flare Associated
16	AFS	1121E	2125D	S07	E15	11 17.6		02	9	9	E	RAMY	7342	
16	DSD	1123E	2125D	S15	W18	11 15.1		03	9	9	E	RAMY	7341	
16	AFS	1125E	2125D	N13	W65	11 11.6		02	6	6	E	RAMY	7334	
16	ASR	1148E	2125D	S05	E90	11 23.2		04	9	9	E	RAMY		
16	ASR	1154E	1454D	S12	E90	11 23.3		03	9	9	E	RAMY		
16	ASR	1157E	1530D	S25	E82	11 22.8		05	9	9	E	RAMY		
16	ADF	1427E	2328D	S28	E80	11 22.8	2	12	9	9	E	HOLL		
16	SSB	1520		271	W29	11 22.2			0	0	E	HOLL		
16	SSB	1652		273	W32	11 22.5			0	0	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
16	ASR	1704E	2026D	S24	E76	11 22.6		04	9	9	E	RAMY	7345	
16	DSF	1907U	2210U	S04	E08	11 17.4		06	0	0	E	HOLL		
16	ASR	1951E	0326D	S03	E90	11 23.5		02	9	9	E	PALE		
16	ADF	2000E	0326D	S19	E74	11 22.5	1	02	9	9	E	PALE	7345	
16	AFS	2013E	0326D	S17	W21	11 15.2		02	9	9	E	PALE	7341	
16	DSD	2236E	0326D	S17	W22	11 15.3		03	9	9	E	PALE	7341	
16	DSD	2257E	0240D	S06	E06	11 17.4		03	9	9	E	LEAR	7342	
16	AFS	2258E	1021D	S16	W23	11 15.2		02	9	9	E	LEAR	7341	
16	ASR	2259E	1021D	S05	E90	11 23.7		05	8	8	E	LEAR	7346	
16	SSB	2358		274	W23	11 22.7			0	0	E	PALE		
17	DSD	1101E	1517D	S25	E65	11 22.5		03	9	9	E	RAMY	7345	
17	ADF	1101E	2055D	S19	E62	11 22.2	1	09	9	9	E	RAMY	7345	
17	DSD	1250E	1708D	N06	W06	11 17.1		03	9	9	E	RAMY	7337	
17	ADF	1425E	2350D	N07	W05	11 17.2	1	05	9	9	E	HOLL	7337	
17	AFS	2257E	1023D	S14	W37	11 15.2		01	9	9	E	LEAR	7341	
17	DSD	2257E	1023D	S17	W39	11 15.0		03	9	9	E	LEAR	7341	
17	ADF	2330E	1023D	N04	W10	11 17.2	1	03	9	9	E	LEAR	7337	
18	ASR	0030E	0358D	S21	W89	11 11.2		03	8	8	E	LEAR	7335	
18	AFS	0515E	1023D	S07	E71	11 23.5		03	9	9	E	LEAR	7346	
18	AFS	0516E	1023D	S22	E54	11 22.4		03	9	9	E	LEAR	7345	
18	DSD	0600E	1023D	S21	E58	11 22.7		14	9	9	E	LEAR	7345	
18	ADF	0620E	1023D	S29	E65	11 23.3	2	19	9	9	E	LEAR	7345	
18	DSF	0620U	0911U	S22	E51	11 22.2		14	0	0	E	LEAR	7345	
18	ADF	1111E	1813D	S26	E53	11 22.6	1	08	9	9	E	RAMY	7345	
18	SSB	1311		234	W17	11 21.1			0	0	E	RAMY		
18	SSB	1702		244	W30	11 22.2			0	0	E	HOLL		
18	AFS	1725E	0000	S07	E08	11 19.3		02	9	9	E	HOLL	7340	
18	AFS	1725E	0000	S16	W47	11 15.2		02	7	7	E	HOLL	7341	
18	ADF	1725E	0000	S29	E57	11 23.2	1	16	9	9	E	HOLL	7345	
18	ADF	1725E	2155	N07	W20	11 17.2	1	06	9	9	E	HOLL	7337	
18	ADF	1755E	2110D	S17	W49	11 15.0	1	05	9	9	E	HOLL	7341	
18	AFS	1907E	1950D	S17	E32	11 21.2		01	9	9	E	HOLL	7344	
18	ASR	1957E	2115D	S18	W90	11 12.0		01	9	9	E	HOLL		
18	AFS	2145E	0000	S08	W19	11 17.5		02	9	9	E	HOLL	7342	
18	DSF	2146E	2157	N05	W23	11 17.2	1	05	0	0	E	HOLL	7337	Flare Associated
18	DSD	2204E	2255	S18	W50	11 15.1		05	9	9	E	HOLL	7341	
18	DSD	2231E	0812D	S17	W51	11 15.1		02	9	9	E	LEAR	7341	
18	AFS	2233E	0516D	S23	E42	11 22.2		03	9	9	E	LEAR	7345	
18	DSD	2238E	0813D	S07	E62	11 23.6		05	9	9	E	LEAR	7346	
19	DSD	0238E	0517D	S09	W22	11 17.4		04	9	9	E	LEAR	7342	
19	DSD	0525E	0820D	N06	W28	11 17.1		01	9	9	E	LEAR	7337	
19	ADF	0701E	1410D	S06	W42	11 16.1	1	07	9	9	E	SVTO		
19	AFS	0813E	1001D	S08	E54	11 23.4		02	9	9	E	LEAR	7346	
19	AFS	0814E	1001D	S07	E55	11 23.5		02	9	9	E	LEAR	7346	
19	AFS	1219E	2116D	S07	W01	11 19.4		01	9	9	E	RAMY	7340	
19	AFS	1223E	2116D	S04	E53	11 23.5		02	9	9	E	RAMY	7346	
19	AFS	1228E	2116D	S24	E36	11 22.3		01	9	9	E	RAMY	7345	
19	ADF	1229E	2116D	S21	E37	11 22.3	1	06	9	9	E	RAMY	7345	
19	DSD	1250E	1540D	S16	W54	11 15.4		04	9	9	E	RAMY	7341	
19	SSB	1315		234	W31	11 22.2			0	0	E	RAMY		276 W72
19	ADF	1617E	2346D	S25	E34	11 22.3	1	14	9	9	E	HOLL	7345	
19	AFS	2318E	1013D	S03	E47	11 23.5		02	9	9	E	LEAR	7346	
19	AFS	2319E	1013D	S04	E46	11 23.4		02	9	9	E	LEAR	7346	
19	ADF	2321E	1013D	S22	E31	11 22.3	1	07	9	9	E	LEAR	7345	
20	ADF	0055E	0316D	S20	E30	11 22.3	1	07	9	9	E	PALE	7345	
20	ADF	0720E	1447D	S19	E17	11 21.6	1	11	9	9	E	SVTO	7345	
20	ADF	0720E	1447D	S20	E26	11 22.3	1	17	9	9	E	SVTO	7345	
20	AFS	0725E	1447D	S05	E41	11 23.4		03	9	9	E	SVTO	7346	
20	AFS	1124E	1741D	S06	E38	11 23.3		03	9	9	E	RAMY	7346	
20	ADF	1155E	1741D	S17	E20	11 22.0	1	21	9	9	E	RAMY	7345	
20	ADF	1705E	2035D	S18	E17	11 22.0	1	20	9	9	E	HOLL	7345	
20	BSD	2059E	0000	S17	W78	11 14.9		03	9	9	E	PALE	7341	
20	BSD	2059E	0215D	S17	W78	11 14.9		03	9	9	E	PALE	7341	
20	ADF	2114E	0215D	S07	E36	11 23.6	1	01	9	9	E	PALE	7346	
20	ADF	2129E	0215D	S27	E28	11 23.1	1	06	9	9	E	PALE	7345	
20	ASR	2311E	0215D	S17	W90	11 14.1		01	9	9	E	PALE	7341	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
20	ASR	2325E	1025D	S17	W90	11	14.1		02	8	7	E	LEAR	7341	
20	ADF	2326E	1025D	S27	E30	11	23.3	1	12	9	9	E	LEAR	7345	
20	ADF	2327E	1025D	S07	E29	11	23.1	1	05	9	9	E	LEAR	7346	
20	ADF	2328E	1025D	S08	W47	11	17.4	1	02	9	9	E	LEAR	7342	
20	SSB	2338		242	W57	11	24.6			0	0	E	PALE		
20	AFS	2338E	0215D	S09	W50	11	17.2		01	9	9	E	PALE	7342	
21	AFS	0707E	1430D	S06	E26	11	23.2		02	9	9	E	SVTO	7346	
21	ADF	0708E	1430D	S07	E35	11	23.9	1	04	9	9	E	SVTO	7346	
21	AFS	0731E	1430D	S09	W53	11	17.3		02	9	9	E	SVTO	7342	
21	ADF	0734E	1430D	S27	E22	11	23.0	1	21	9	9	E	SVTO	7345	
21	ADF	0925E	1025D	N19	W41	11	18.3	1	06	9	9	E	LEAR		
21	SSB	1006		241	W62	11	25.0			0	0	E	SVTO		
21	ADF	1101E	1251D	S16	E06	11	21.9	1	19	9	9	E	RAMY	7345	
21	ADF	1541E	2349D	S20	E08	11	22.3	1	10	9	9	E	HOLL	7345	
21	DSD	1613E	2239D	S10	E19	11	23.1		04	9	9	E	HOLL	7346	
21	SSB	1950		244	W70	11	25.8			0	0	E	HOLL		
21	AFS	2250E	1025D	S27	E14	11	23.0		01	9	9	E	LEAR	7345	
21	ASR	2251E	1025D	S16	W90	11	15.1		02	7	7	E	LEAR	7341	
21	AFS	2252E	1025D	S08	W63	11	17.2		02	9	9	E	LEAR	7342	
21	AFS	2253E	0202D	S07	E04	11	22.2		02	9	9	E	LEAR		
21	AFS	2254E	1025D	S07	E03	11	22.2		02	9	9	E	LEAR		
21	AFS	2255E	1025D	S08	E03	11	22.2		02	9	9	E	LEAR		
22	ASR	0325E	1025D	N11	E90	11	28.9		03	8	9	E	LEAR		
22	DSD	0525E	1025D	S10	W67	11	17.2		04	9	9	E	LEAR	7342	
22	AFS	0935E	1255D	S08	W03	11	22.2		02	9	9	E	SVTO		
22	AFS	1021E	1255D	S05	E13	11	23.4		02	9	9	E	SVTO	7346	
22	ADF	1030E	1255D	S28	E09	11	23.1	1	23	9	9	E	SVTO	7335	
22	AFS	1228E	1244D	S07	W04	11	22.2		03	9	9	E	RAMY	7347	
22	AFS	1234E	1244D	S07	W73	11	17.0		02	9	9	E	RAMY	7342	
22	ASR	1235E	1244D	S12	W90	11	15.7		01	9	9	E	RAMY	7341	
22	DSF	1236U	1202U	S09	W53	11	18.5	2	09	0	0	E	RAMY		
22	ASR	1239E	1244D	N12	E82	11	28.7		03	9	9	E	RAMY	7348	
22	ASR	1241E	1244D	S09	E90	11	29.3		02	9	9	E	RAMY		
22	ASR	1242E	1244D	S18	E90	11	29.4		02	9	9	E	RAMY		
22	DSF	1255U	0912U	S11	W34	11	20.0	2	10	0	0	E	SVTO		
22	ASR	1944E	2009D	N11	E85	11	29.2		05	9	9	E	HOLL	7348	
22	AFS	1944E	2009D	S06	W10	11	22.1		02	9	9	E	HOLL	7347	
22	AFS	1944E	2009D	S06	W73	11	17.3		02	9	9	E	HOLL	7342	
22	AFS	1944E	2009D	S08	W07	11	22.3		02	9	9	E	HOLL	7347	
22	AFS	2256E	1025D	S05	W10	11	22.2		02	9	9	E	LEAR	7347	
22	DSD	2256E	1025D	S07	W77	11	17.2		02	9	9	E	LEAR	7342	
23	EPL	0236	0250	S20	E90	11	30.0		26	9	9	E	LEAR		
23	ASR	0520E	1025D	S09	W90	11	16.5		03	7	6	E	LEAR	7342	
23	ASR	0535E	1025D	N11	E84	11	29.5		03	8	8	E	LEAR	7348	
23	ASR	0540E	1025D	S18	E89	11	30.0		03	9	9	E	LEAR		
23	AFS	0700E	1430D	S07	W15	11	22.2		02	9	9	E	SVTO	7347	
23	AFS	1028E	1430D	S10	W15	11	22.3		02	9	9	E	SVTO	7347	
23	AFS	1029E	1430D	S09	W84	11	17.1		01	9	9	E	SVTO	7342	
23	AFS	1033E	1430D	S11	E09	11	24.1		01	9	9	E	SVTO	7346	
23	AFS	1034E	1430D	S06	E01	11	23.5		03	9	9	E	SVTO	7346	
23	ADF	1128E	2115D	N13	E66	11	28.4	1	03	9	9	E	RAMY	7348	
23	DSD	1631E	1808D	S08	W20	11	22.2		03	9	9	E	RAMY	7347	
23	DSD	1757E	0329D	S08	W23	11	22.0		03	9	9	E	PALE	7347	
23	AFS	1757E	0329D	S11	W29	11	21.6		02	9	9	E	PALE	7347	
23	ADF	1920E	0329D	S29	W06	11	23.3	1	12	9	9	E	PALE	7345	
23	SSB	1950		181	W34	11	30.3			0	0	E	PALE		
23	ASR	2250E	1026D	S10	W90	11	17.2		06	7	7	E	LEAR	7342	
23	AFS	2251E	1026D	S05	W05	11	23.6		01	9	9	E	LEAR	7346	
24	ADF	0005E	1026D	S28	W15	11	22.8	1	09	9	9	E	LEAR	7345	
24	ASR	0958E	1447D	S07	W90	11	17.7		08	9	9	E	SVTO	7342	
24	AFS	1010E	1447D	S07	W33	11	21.9		02	9	9	E	SVTO	7347	
24	DSD	1010E	1447D	S17	E70	11	29.7		01	9	9	E	SVTO	7351	
24	AFS	1558E	2315D	S05	W37	11	21.9		01	9	9	E	HOLL	7347	
24	AFS	1602E	2315D	S04	W15	11	23.5		02	8	9	E	HOLL	7346	
24	DSD	1606E	2315D	S06	W37	11	21.9		04	9	9	E	HOLL	7347	
24	AFS	1630E	2315D	N19	E59	11	29.2		02	9	9	E	HOLL		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CNP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
24	ADF	1700E	2315D	N09	E54	11	28.8	1	04	9	9	E	HOLL	7448	
24	DSD	1700E	2315D	N12	E51	11	28.5		02	9	9	E	HOLL	7348	
24	ASR	1702E	2315D	S07	W90	11	18.0		04	9	9	E	HOLL	7342	
24	AFS	1705E	2315D	S05	W08	11	24.1		02	9	9	E	HOLL	7346	
24	SSB	1710		194	W58	12	2.9			0	0	E	HOLL		
24	AFS	1820E	0333D	N09	E56	11	29.0		02	9	9	E	PALE	7348	
24	ADF	1820E	0333D	N14	E58	11	29.1	1	04	9	9	E	PALE	7348	
24	DSD	1820E	0333D	N15	E50	11	28.5		04	9	9	E	PALE	7348	
24	AFS	1820E	0333D	S06	W34	11	22.2		02	9	9	E	PALE	7347	
24	DSD	1820E	0333D	S07	W36	11	22.1		03	9	9	E	PALE	7347	
24	ADF	1822E	0333D	S24	W13	11	23.8	1	10	9	9	E	PALE	7345	
24	AFS	1843E	2045D	S05	W37	11	22.0		02	9	9	E	RAMY	7347	
24	DSD	1844E	2045D	S05	W34	11	22.2		02	9	9	E	RAMY	7347	
24	AFS	1845E	2045D	N15	E49	11	28.5		02	9	9	E	RAMY	7348	
24	SSB	1905		172	W37	11	30.6			0	0	E	PALE		
24	AFS	1940E	2045D	N21	E56	11	29.1		03	9	9	E	RAMY		
24	AFS	1941E	2045D	N10	E51	11	28.6		03	9	9	E	RAMY	7348	
24	DSD	1943E	2045D	N10	E56	11	29.0		04	9	9	E	RAMY	7348	
24	DSD	1954E	2045D	S18	E59	11	29.3		05	9	9	E	RAMY	7350	
24	DSD	1955E	2045D	S21	E61	11	29.5		03	9	9	E	RAMY	7350	
24	AFS	1959E	2045D	S04	W17	11	23.6		02	9	9	E	RAMY	7346	
24	ASR	2010E	2045D	N07	W90	11	18.1		10	9	9	E	RAMY	7342	
24	DSD	2315E	1030D	S06	W46	11	21.5		04	9	9	E	LEAR	7347	
25	AFS	0010E	1030D	S05	W26	11	23.1		03	9	9	E	LEAR	7346	
25	ASR	0153E	0333D	S06	W90	11	18.3	1	03	9	9	E	PALE	7342	
25	AFS	1010E	1030D	N12	E52	11	29.3		03	9	9	E	LEAR	7348	
25	ADF	1512E	2349D	S18	W27	11	23.6	1	12	9	9	E	HOLL	7345	
25	ADF	1512E	2349D	S29	W33	11	23.0	1	24	9	9	E	HOLL	7345	
25	AFS	1521E	2034D	N20	E44	11	29.0		01	7	7	E	RAMY	7352	
25	ADF	1527E	2034D	N14	E43	11	28.9	1	04	9	9	E	RAMY	7348	
25	SSB	1935		165	W44	12	1.2			0	0	E	HOLL		
25	ADF	2300E	0233D	N09	E38	11	28.8	1	02	9	9	E	PALE	7348	
25	ADF	2300E	0233D	S06	W32	11	23.6	1	01	9	9	E	PALE	7346	
25	ADF	2303E	1035D	S27	W48	11	22.2	1	02	9	9	E	LEAR	7345	
25	DSD	2307E	1035D	N12	E35	11	28.6		04	9	9	E	LEAR	7352	
25	AFS	2308E	1035D	S05	W33	11	23.5		03	9	9	E	LEAR	7346	
25	DSD	2319E	0233D	S28	W50	11	22.1		05	9	9	E	PALE	7345	
26	AFS	0050E	0233D	N19	E40	11	29.1		02	9	9	E	PALE	7352	
26	AFS	0058E	1035D	N09	E34	11	28.6		02	9	9	E	LEAR	7352	
26	ADF	0203E	0233D	N19	E37	11	28.9	1	01	9	9	E	PALE	7352	
26	APR	0700E	1330D	S47	E90	12	3.8	2	10	7	6	E	SVTO		
26	AFS	0705E	1430D	S16	E45	11	29.7		03	9	9	E	SVTO	7350	
26	AFS	0752E	1430D	N12	E37	11	29.1		02	9	9	E	SVTO	7348	
26	DSD	0752E	1430D	N16	E29	11	28.5		03	9	9	E	SVTO	7348	
26	AFS	0935E	1430D	N21	E36	11	29.1		02	9	9	E	SVTO	7352	
26	DSD	0937E	1430D	N15	E33	11	28.9		03	9	9	E	SVTO	7346	
26	DSD	0940E	1430D	S07	W59	11	22.0		02	9	9	E	SVTO	7347	
26	AFS	1126E	2134D	N11	E35	11	29.1		01	9	9	E	RAMY	7348	
26	AFS	1127E	2134D	N07	E30	11	28.7		01	9	9	E	RAMY	7348	
26	AFS	1131E	2134D	N19	E34	11	29.1		02	9	9	E	RAMY	7352	
26	DSD	1132E	2004D	N18	E35	11	29.1		01	9	9	E	RAMY	7352	
26	DSD	1133E	2134D	S05	W36	11	23.8		05	9	9	E	RAMY	7346	
26	DSD	1140E	2005D	S04	E69	12	1.6		02	9	9	E	RAMY	7353	
26	AFS	1219E	2134D	S17	E42	11	29.7		01	9	9	E	RAMY	7351	
26	AFS	1220E	2134D	S20	E39	11	29.5		01	9	9	E	RAMY	7350	
26	DSD	1227E	1722D	S06	W61	11	21.9		01	9	9	E	RAMY	7347	
26	ADF	1233E	2134D	S11	W61	11	21.9	1	15	9	9	E	RAMY	7344	
26	SSB	1400		170	W59	12	2.7			0	0	E	RAMY		
26	SSB	1610		183	W73	12	4.3			0	0	E	HOLL		
26	DSD	1610E	2130D	S23	E44	11	30.1		06	9	9	E	HOLL		
26	DSD	1610E	2214D	S04	W48	11	23.1		02	9	9	E	HOLL	7346	
26	DSD	1610E	2214D	S05	W70	11	21.4		02	9	9	E	HOLL	7347	
26	ADF	1610E	2348D	N09	E29	11	28.8	1	04	9	9	E	HOLL	7348	
26	AFS	1610E	2348D	N18	E32	11	29.1		02	9	9	E	HOLL	7352	
26	AFS	1610E	2348D	S06	E69	12	1.8		02	9	9	E	HOLL	7353	
26	ADF	1729E	2232D	N06	E34	11	29.3	1	02	9	9	E	PALE	7348	
26	DSD	1729E	2232D	N10	E30	11	29.0		03	9	9	E	PALE	7348	
26	AFS	1729E	2232D	N17	E38	11	29.6		02	9	9	E	PALE	7352	

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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
26	ADF	1729E	2232D	S12	W35	11 24.1	1	02	9	9	E	PALE	7346	
26	DSD	1747E	2232D	S08	W71	11 21.4		04	9	9	E	PALE	7347	
26	ADF	1747E	2232D	S13	W63	11 22.0	1	06	9	9	E	PALE	7344	
26	ADF	1747E	2232D	S28	W47	11 23.1	1	07	9	9	E	PALE	7345	
26	AFS	1816E	2232D	S19	E38	11 29.7		02	9	9	E	PALE	7350	
26	ADF	1816E	2232D	S23	E40	11 29.8	1	03	9	9	E	PALE	7350	
26	ADF	1816E	2232D	S23	E46	11 30.3	1	03	9	9	E	PALE	7350	
26	SSB	1837		169	W60	12 2.8			0	0	E	PALE		116 W07
26	AFS	1953E	2232D	N02	W10	11 26.1		01	8	8	E	PALE		
26	DSD	2258E	1030D	N11	E27	11 29.0		04	9	9	E	LEAR	7348	
26	DSD	2259E	1030D	S19	W60	11 22.4		04	9	9	E	LEAR	7345	
26	AFS	2300E	1030D	N19	E28	11 29.1		02	9	9	E	LEAR	7352	
26	DSD	2301E	1030D	N21	E26	11 28.9		03	9	9	E	LEAR	7352	
27	DSF	0500E	0830D	N22	E36	11 30.0	2	30	0	0	E	LEAR		
27	AFS	0528E	1030D	S03	E57	12 1.5		02	9	9	E	LEAR	7353	
27	ASR	0529E	1030D	S17	W90	11 20.4		05	8	8	E	LEAR		
27	ASR	0915E	1030D	S03	W90	11 20.7		11	6	6	E	LEAR		
27	ADF	0935E	1007D	N10	E18	11 28.7		03	9	9	E	SVTO	7348	
27	ADF	0940E	1007D	S19	E30	11 29.7		06	9	9	E	SVTO	7350	
27	DSF	0953U	0930U	N46	E11	11 28.3	2	09	0	0	E	SVTO		
27	AFS	1430E	2343D	N19	E19	11 29.0		02	9	9	E	HOLL	7352	
27	ADF	1515E	2343D	N09	E14	11 28.7	1	06	9	9	E	HOLL	7348	
27	AFS	1758E	0259D	N09	E16	11 28.9		02	9	9	E	PALE	7348	
27	ADF	1758E	0259D	N14	E18	11 29.1	1	05	9	9	E	PALE	7348	
27	ADF	1811E	0259D	S18	W70	11 22.4	1	08	9	9	E	PALE	7345	
27	ADF	1819E	0259D	S07	W69	11 22.6	1	05	9	9	E	PALE	7347	
27	ADF	1846E	0259D	N10	E17	11 29.0	1	10	9	9	E	PALE	7349	
27	AFS	1907E	0259D	N19	E17	11 29.1		03	9	9	E	PALE	7352	
27	DSD	1940E	2040D	S10	W51	11 24.0		02	9	9	E	RAMY	7346	
27	AFS	1940E	2040D	S11	W49	11 24.1		01	9	9	E	RAMY	7346	
27	AFS	1947E	2040D	N11	E19	11 29.2		02	9	9	E	RAMY	7348	
27	DSD	1950E	2040D	S20	E24	11 29.7		02	9	9	E	RAMY	7350	
27	ADF	1953E	2040D	S06	W75	11 22.2	1	08	9	9	E	RAMY	7347	
27	DSF	2257U	1402U	N40	E05	11 28.4		09	0	0	E	HOLL		
27	AFS	2322E	1034D	N19	E13	11 29.0		02	9	9	E	LEAR	7352	
27	AFS	2322E	1034D	S20	E20	11 29.5		01	9	9	E	LEAR	7350	
27	ADF	2323E	1034D	S53	W11	11 27.0	1	05	9	9	E	LEAR	7346	
27	DSD	2352E	1034D	S10	W10	11 27.2		02	9	9	E	LEAR	7349	
28	APR	0025E	0102D	S11	W90	11 21.2	1	02	9	9	E	PALE	7347	
28	APR	0030E	0109D	S11	W90	11 21.2	2	06	9	9	E	LEAR	7347	
28	ASR	0133E	0259D	S11	W90	11 21.3		01	9	9	E	PALE	7347	
28	ASR	0506E	0641D	S07	W90	11 21.5		02	9	9	E	LEAR	7346	
28	AFS	0650E	1455D	N19	E11	11 29.1		03	9	9	E	SVTO	7352	
28	ASR	0829E	1108D	S07	W90	11 21.6		01	9	9	E	SVTO	7347	
28	ADF	0834E	1455D	N10	E06	11 28.8	1	03	9	9	E	SVTO	7348	
28	DSD	1357E	1937D	S26	W71	11 23.1		04	9	9	E	RAMY	7345	
28	DSD	1400E	1614D	S07	W74	11 23.0		02	9	9	E	RAMY	7346	
28	DSD	1402E	1614D	S12	W60	11 24.1		03	9	9	E	RAMY	7346	
28	ASR	1412E	1523D	S20	W90	11 21.7		08	9	9	E	RAMY		
28	AFS	1412E	1937D	S21	E12	11 29.5		02	8	8	E	RAMY	7350	
28	DSD	1413E	1614D	S23	E13	11 29.6		01	9	9	E	RAMY	7350	
28	DSF	1414U	1920U	N44	E60	12 3.5		18	0	0	E	HOLL		
28	DSD	1415E	1614D					03	9	9	E	RAMY	7350	
28	AFS	1438E	1937D	N20	E07	11 29.1		03	9	9	E	RAMY	7352	
28	DSD	1448E	1937D	N13	E07	11 29.1		03	9	9	E	RAMY	7348	
28	APR	1500E	2342D	S11	W90	11 21.8	2	04	9	9	E	HOLL	7347	
28	APR	1514E	1937D	S10	W90	11 21.9	1	02	9	9	E	RAMY	7347	
28	ADF	1516E	2342D	N12	E04	11 28.9	1	03	9	9	E	HOLL	7348	
28	BSD	2003E	2150D	S05	W72	11 23.4		06	8	9	E	HOLL	7346	Flare Associated
28	AFS	2320E	1034D	N19	E00	11 29.0		01	9	9	E	LEAR	7352	
28	AFS	2320E	1034D	S03	E34	12 1.5		02	9	9	E	LEAR	7353	
28	AFS	2325E	0036D	N21	E00	11 29.0		02	9	9	E	PALE	7352	
28	ADF	2325E	0036D	S13	W68	11 23.8	1	03	9	9	E	PALE	7346	
29	SSB	0013		460	W21	11 24.4			0	0	E	PALE		
29	AFS	0027E	0036D	N15	W25	11 27.1		01	9	9	E	PALE		
29	ADF	0451E	1034D	N19	W04	11 28.9	1	04	8	8	E	LEAR	7352	
29	AFS	0702E	0714D	N19	W03	11 29.1		03	9	9	E	SVTO	7352	

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
29	AFS	0703E	1034D	N16	E77	12	5.1		01	9	9	E	LEAR		
29	AFS	0709E	0714D	S13	W36	11	26.6		01	9	9	E	SVTO		
29	DSF	0856U	2220U	S25	W37	11	26.5		14	0	0	E	LEAR		
29	ADF	1121E	2104D	N20	W04	11	29.2	1	02	9	9	E	RAMY	7352	
29	CRN	1240E	1445D	S25	W90	11	22.5		10	9	9	E	RAMY	7345	
29	BSL	1243E	1322D	N08	W90	11	22.8					P	VALA		
29	ASR	1245E	1445D	S06	W90	11	22.8		03	9	9	E	RAMY	7346	
29	SPY	1245E	1307D	N22	W90	11	22.6	1				P	VALA		
29	LPS	1303E	1303D	N27	W90	11	22.5	2				P	VALA		
29	SSB	1455		443	W12	11	26.4			0	0	E	HOLL		
29	CRN	1520E	2255D	S24	W90	11	22.7		14	7	7	E	HOLL	7345	
29	ASR	1520E	2324D	S24	W88	11	22.8		03	8	8	E	HOLL	7345	
29	DSF	1526E	2324D	S19	W07	11	29.1		04	9	9	E	HOLL	7350	
29	AFS	1530E	2324D	N19	W10	11	28.9		03	9	9	E	HOLL	7352	
29	CRN	1530E	1733D	S23	W90	11	22.7		14	9	9	E	RAMY	7345	
29	ADF	1957E	0139D	N11	W10	11	29.1	1	02	9	9	E	PALE	7348	
29	ADF	1957E	0139D	N17	W10	11	29.1	1	06	9	9	E	PALE	7352	
29	AFS	1957E	0139D	N19	W14	11	28.8		02	9	9	E	PALE	7352	
29	ASR	1957E	0139D	S11	W90	11	23.1		01	9	9	E	PALE	7346	
29	ADF	2115E	0139D	S17	W71	11	24.5	1	09	9	9	E	PALE	7345	
29	APR	2255E	2324D	S12	W90	11	23.2	2	04	9	9	E	HOLL		
29	AFS	2329E	1034D	N13	W11	11	29.1		02	9	9	E	LEAR	7348	
29	AFS	2330E	1034D	S03	E22	12	1.6		02	7	7	E	LEAR	7353	
29	AFS	2331E	1034D	S08	E57	12	4.2		02	7	7	E	LEAR		
29	AFS	2332E	1034D	S24	W36	11	27.2		02	8	7	E	LEAR		
29	ADF	2333E	1034D	N20	W20	11	28.4	1	05	6	8	E	LEAR	7352	
30	AFS	0029E	0139D	S28	W41	11	26.8		02	9	9	E	PALE		
30	SSB	0136		452	W17	11	26.1			0	0	E	PALE		
30	ADF	0945E	1034D	N11	W18	11	29.0	1	07	9	9	E	LEAR	7348	
30	DSF	0955E	1040D	N16	W21	11	28.8	1				V	KHAR		
30	ADF	1021E	1454D	N18	W23	11	28.7		02	9	9	E	SVTO	7352	
30	AFS	1021E	1454D	N19	W18	11	29.0		02	9	9	E	SVTO	7352	
30	AFS	1021E	1454D	N22	W23	11	28.7		02	9	9	E	SVTO	7352	
30	APR	1104E	1250D	S29	W90	11	23.4					P	VALA		
30	DSF	1142U	1131U	S26	W05	11	30.1	2	21	0	0	E	RAMY		
30	SSB	1209		437	W18	11	27.7			0	0	E	RAMY		448 W29 112 W53
30	ASR	1822E	2040	S05	W90	11	24.0		02	9	9	E	RAMY	7346	

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
DSF = Dark Surge on Disk
DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF/DSF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

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

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

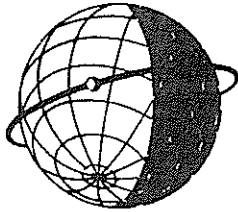
The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
HOLL = Holloman

KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua
RAMY = Ramey

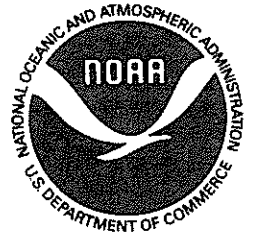
SVTO = San Vito
VORO = Voroshilov
VALA = Valasske Mezirici



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."