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Data for June 1991

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Editor: Helen E. Coffey

Chief: Joe H. Allen
Solar-Terrestrial Physics Division

Staff: Daniel C. Wilkinson
Carol Weathers
John A. McKinnon

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H α SOLAR FLARES

JUNE 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement	Remarks					
								USAF Region							Mo	Day	(Min)	Opt	Xray
0001	HOLL	01	0001	0018	0037	S09	E02	6652	06	1.1	36	SF	3	E	73		F		
0002	YUNN	01	0152	0155U	0205	S15	W18	6648	05	30.8	13	SN		P	0155	31	0.3		
0003		01	0209E	0209S	0236	S10	E01	6652	06	1.2	27D	SF				57	0.8	EF	
	YUNN	01	0209E	0209	0242	S10	E00	6652	06	1.1	33D	SN		C		63	0.7		
	URUM	01	0210E	0214	0235	S10	E00	6652	06	1.1	25D	SF		C		96	1.0	E	
	PALE	01	0215E	0226U	0230	S09	E02	6652	06	1.2	15D	SF	3	E		13		F	
0004	YUNN	01	0247E	0247U	0247D	S15	W18	6648	05	30.8	15D	SN		P	0247	24	0.3		
0005		01	0245	0252	0304	N08	E08	6654	06	1.7	19	1N M	1.0			199	2.2	EF	
	YUNN	01	0245	0258U	0307	N07	E06	6654	06	1.6	22	SN		P	0258	79	0.8		
	PALE	01	0251E	0302U	0302D	N09	E11	6654	06	1.9	11D	1B M	1.0	3	E	181		F	
	URUM	01	0252E	0252	0300	N07	E06	6654	06	1.6	8D	1N		C		338	3.5	E	
0006	YUNN	01	0252	0259	0314	S10	E19	6654C	06	2.5	22	SN		C		47	0.5		
0007		01	0245*	03043	0320	S09	E01	6652	06	1.2	35	1F C	5.2			194	2.2	E	
	YUNN	01	0245	0307U	0320	S09	E02	6652	06	1.3	35	1N		P	0307	204	2.1		
	URUM	01	0300	0307	0320	S09	E02	6652	06	1.3	20	1F		C		225	2.3	E	
	PALE	01	0303	0304	0308D	S08	E00	6652	06	1.1	5D	1F C	5.2	3	E	154			
0008		01	0335*	0339*	0450	S10	E00	6652	06	1.1	75	1N M	2.3			250	2.9	EFHKL	
	TACH	01	0301E	0400	0513	S10	E00	6652	06	1.1	132D	2N		2	C	0400	556	5.8	KLT
	URUM	01	0335	0339	0355	S11	W00	6652	06	1.1	20	SN			C		113	1.2	E
	WATU	01	0358	0401	0423	S07	E01	6652	06	1.2	25	1N			C	0401	320	3.3	F
	URUM	01	0359	0403	0432	S09	W01	6652	06	1.1	33	SN			C		113	1.2	E
	SVTO	01	0412E	0413	0528	S10	E00	6652	06	1.2	76D	2F M	2.3		E	302		K	
	SVTO	01	0412E	0430	0528	S10	E00	6652	06	1.2	76D	SN		3	E	98		H	
0009		01	06026	06104	0628	S15	W19	6648	05	30.9	26	SN C	5.9			104	1.3	D	
	SVTO	01	0602	0614	0701	S16	W19	6648	05	30.9	59	SN C	5.9	3	E	74			
	ATHN	01	0605	0610	0615	S13	W15	6648	05	31.1	10	SF		3	V	0610	159	1.7	
	ABST	01	0608	0610	0620	S15	W20	6648	05	30.8	12	SN			C	0610	87	1.0	D
	KANZ	01	0610E	0610U	0618	S16	W19	6648	05	30.9	8D	SF		2	C				
	YUNN	01	0618E	0618U	0618D	S15	W21	6648	05	30.8	8D	SN			P	0618	94	1.1	
0010	SVTO	01	0722	0722	0729	S08	W02	6652	06	1.1	7	SF		3	E		14		
0011	KANZ	01	0728	0731	0735	N11	E78	6660	06	7.2	7	SF		2	C				
0012	HTPR	01	0925		1000	N15	E90	6664	06	8.2	35	SF			C				
0013		01	11441	11466	1217	S14	W24	6648	05	30.8	33	SN M	1.0			143	2.9	H	
	SVTO	01	1144	1146	1221	S15	W23	6648	05	30.8	37	SF M	1.0	3	E	36		H	
	KANZ	01	1145E	1149	1215	S13	W23	6648	05	30.8	30D	SN		2	C				
	HTPR	01	1145	1152	1215	S13	W25	6648	05	30.7	30	1N			C	1152	250	2.9	H
0014		01	1206	12107	1235	N14	W57	6656	05	28.3	29	SF				130	2.8	F	
	HTPR	01	1206	1210	1235	N14	W60	6656	05	28.1	29	1N			C	1210	170	2.8	
	SVTO	01	1208E	1211	1235	N13	W56	6656	05	28.4	27D	SF		3	E		89		F
	KANZ	01	1215E	1217	1225D	N14	W56	6656	05	28.4	10D	SF		2	C				
0015		01	13172	13194	1334	S08	W05	6652	06	1.2	17	SF				15		F	
	SVTO	01	1317	1319	1339	S08	W05	6652	06	1.2	22	SF		3	E		17		
	RAMY	01	1319	1323	1330	S08	W05	6652	06	1.2	11	SF		3	E		13		F
0016		01	1509	1529*	1635D	N22	E90	6664	06	8.5	86D	1F X12.0				172		HMY	
	RAMY	01	1509	1529	1614D	N25	E90	6664	06	8.6	65D	1F X12.0		4	E		110		H
	SVTO	01	1517E	1540	1635D	N21	E90	6664	06	8.5	78D	2N		3	E		257		YH
	HOLL	01	1527E	1533U	1624D	N21	E90	6664	06	8.5	57D	1F		1	E		150		M
0017	RAMY	01	1520	1527	1529	S10	E35	6657	06	4.3	9	SF		3	E		23		F

H α SOLAR FLARES

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Jun 91

JUNE 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Day							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0018		01	1529*	16058	1646	S09	W07	6652	06	1.1	77	1B					147		FKMY
	HOLL	01	1529	1605	1650	S08	W07	6652	06	1.1	81	1B	3	E			162		MY
	HOLL	01	1529	1613	1650	S08	W07	6652	06	1.1	81	1B		E			242		K
	SVTO	01	1557	1606U	1641	S10	W08	6652	06	1.1	44	1B	2	E			148		F
	RAMY	01	1602	1607	1642	S09	W07	6652	06	1.1	40	1N	3	E			104		F
	PALE	01	1620E	1620U	1651D	S08	W08	6652	06	1.1	31D	SN	3	E			79		F
0019	PALE	01	1718	1724	1734	S10	E34	6657	06	4.3	16	SF	3	E			13		
0020		01	1836	1839	1900	N06	E03	6654	06	2.0	24	SF					18		F
	HOLL	01	1836	1839	1900	N06	E02	6654	06	1.9	24	SF	3	E			24		F
	PALE	01	1852E	1854U	1910D	N06	E04	6654	06	2.1	18D	SF	3	E			11		F
0021		01	1928	1933	1940	N06	W04	6654	06	1.5	12	SN					46		EFH
	HOLL	01	1928	1933	1940	N06	W03	6654	06	1.6	12	SN	3	E			66		FE
	RAMY	01	1932E	1933U	1940D	N07	W04	6654	06	1.5	8D	SF	3	E			26		FH
0022	HOLL	01	2126	2127	2141	N14	W63	6656	05	28.2	15	SF	3	E			28		F
0023	HOLL	01	2130	2133	2140	S10	E32	6657	06	4.3	10	SF	3	E			27		F
0024		01	2357I	2402I	2415	N12	W65	6656	05	28.2	18	SF					62		EFIJ
	HOLL	01	2357	2403	2415	N13	W65	6656	05	28.2	18	SF	3	E			43		F
	VORO	01	2358	2402	2415	N11	W65	6656	05	28.2	17	SF	2	C	2402		81		EIJ
0025		02	0009	0010I	0020	S12	W27	6648	05	31.0	11	SF					79	1.6	DFIJ
	HOLL	02	0009	0010	0018	S12	W27	6648	05	31.0	9	SF	3	E			24		F
	VORO	02	0010U	0011	0022	S12	W27	6648	05	31.0	12U	SF	2	C	0011		134	1.6	DIJ
0026	VORO	02	0022	0024	0034	S10	E07	6654C	06	2.5	12	SF	2	C	0024		108	1.2	EIJ
0027	TACH	02	0524	0526	0540	N05	W03	6654	06	2.0	16	SN	2	C	0526		178	1.9	E
0028	ISTA	02	0744		0845	N27	E90	6659	06	9.3	61	2B		P					A
0029	KANZ	02	1046	1050	1058	S09	W16	6652	06	1.2	12	SF	2	C					
0030	RAMY	02	1152	1155	1201	S08	W18	6652	06	1.1	9	SF	C 4.4	4	E		38		
0031	HOLL	02	1309	1315	1326	N07	W09	6654	06	1.9	17	SF	3	E			16		F
0032		02	1350*	1356*	1741	S08	W20	6652	06	1.1	231	2B	M 2.8				317		EFKMTZ
	HOLL	02	1350	1356	1747	S08	W19	6652	06	1.1	237	2B		3	E		387		MZT
	HOLL	02	1350	1408	1747	S08	W19	6652	06	1.1	237	2B	M 2.8		E		478		KT
	SVTO	02	1555	1557	1730	S09	W22	6652	06	1.0	95	SN	2	E			85		FE
0033		02	1506I	1509I	1550	N06	W07	6654	06	2.1	44	1N					74		EF
	HOLL	02	1506	1510	1606	N06	W07	6654	06	2.1	60	1N	3	E			105		FE
	RAMY	02	1508	1509	1533	N07	W07	6654	06	2.1	25	SF	4	E			44		F
0034		02	1703	1703	1724	N09	E58	6660	06	7.1	21	SF					26		F
	HOLL	02	1703	1703	1724	N10	E57	6660	06	7.0	21	SF	3	E			30		
	PALE	02	1716E	1716U	1728D	N08	E60	6660	06	7.2	12D	SF	2	E			21		F
0035	HOLL	02	2027	2033	2051	S08	W22	6652	06	1.2	24	1N	M 1.0	3	E		100		EF
		02	2237		2253	No Flare Patrol													
		02	2259		2309	No Flare Patrol													
		02	2317		2328	No Flare Patrol													
0036	LEAR	03	0204	0207	0229	N27	E78	6659	06	9.2	25	1F	C 9.9	3	E		141		
0037	TACH	03	0319	0321	0343	N28	E80	6659	06	9.4	24	SB	2	C	0321		41		D
0038	KANZ	03	0754	0802U	0806	S08	E14	6657	06	4.4	12	SF	2	C					
		03	1003		1006	No Flare Patrol													
0039	PEKG	03	1005	1007	1020D	N10	E50	6660	06	7.2	15D	1N		P	1008		210	3.3	D

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Jun 91

H α SOLAR FLARES

JUNE 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0040	HOLL	03	1531	1534	1544	S15	W48	6648	05	31.0	13	SF	C	1.7	3	E	26			
0041	HOLL	03	1545	1555	1612	N18	E48	6658	06	7.3	27	SF			3	E	12			
0042		03	16274	16303	1646	S14	W48	6648	05	31.0	19	SF					27			F
	HOLL	03	1627	1630	1645	S14	W48	6648	05	31.0	18	SF			3	E	23			F
	PALE	03	1631	1633	1646	S15	W47	6648	05	31.1	15	SF			3	E	31			F
0043	PALE	03	1635	1636	1641	S12	W29	6652	06	1.5	6	SF	C	1.7	3	E	30			
0044	PALE	03	1715E	1715U	1747D	N11	E46	6660	06	7.2	32D	SF	C	1.9	3	E	19			F
0045		03	20501	20541	2123	S14	W52	6648	05	31.0	33	SF	M	1.5			40			F
	PALE	03	2050	2054	2109D	S15	W52	6648	05	31.0	19D	SF			3	E	46			F
	HOLL	03	2051	2055	2123	S13	W52	6648	05	31.0	32	SF	M	1.5	3	E	35			F
0046	HOLL	03	2200	2203	2234	N10	E52	6663	06	7.8	34	SF	C	1.8	3	E	26			F
0047	HOLL	03	2245	2250	2303	S08	W38	6652	06	1.1	18	SF	C	1.8	3	E	22			F
		04	0218		0237	No Flare Patrol														
0048	TACH	04	0326	0328	0400	S10	W41	6652	06	1.1	34	SB			2	C	0328	138	1.9	D
0049		04	0334*	0337*	0531	N34	E75	6659	06	10.1	117	2N	X12.0				495			ADEFHIMU
	TACH	04	0334	0337	0625	N35	E75	6659	06	10.1	171	4F		3	C	0337	1127			IMZ
	PEKG	04	0342E	0409	0432	N33	E80	6659	06	10.5	50D	3B			C	0410	883			FW
	LEAR	04	0349E	0357	0445D	N30	E65	6659	06	9.3	56D	3B	X12.0	2	E		721			
	WATU	04	0411E	0411	0440	N35	E80	6659	06	10.6	29D	2N			P	0411	270			FH
	SVTO	04	0413E	0413U	0515	N35	E74	6659	06	10.1	62D	1B		1	E		157			UY
	URUM	04	0427E	0435U	0600	N32	E74	6659	06	10.0	93D	2B			C		450			E
	ABST	04	0527E	0532U	0626D	N33	E70	6659	06	9.8	59D	1F			P	0532	87			D
	ABST	04	0532	0535	0612	N36	E80	6659	06	10.6	40	2N			C	0535	262			AE
		04	0419		0421	No Flare Patrol														
0050		04	0614	06146	0631	S08	W41	6652	06	1.2	17	1N					215	3.2		DEFZ
	TACH	04	0614	0614	0625	S09	W39	6652	06	1.3	11	SB		3	C	0614	142	1.9		EZ
	ABST	04	0614	0615	0625	S04	W41	6652	06	1.2	11	SN			C	0615	140	1.9		E
	PEKG	04	0614	0615	0635	S10	W40	6652	06	1.2	21	1N			C	0615	378	5.1		D
	SVTO	04	0614	0623U	0641	S10	W45	6652	05	31.9	27	1F		2	E		142			F
	URUM	04	0617E	0620	0630	S09	W40	6652	06	1.2	13D	1N			C		273	3.7		E
0051		04	0913*	0915*	0929	N10	E37	6660	06	7.2	16	SF					98	1.2		EHL
	HTPR	04	0913	0916	0930	N08	E37	6660	06	7.1	17	SF			C	0916	130	1.6		
	KAND	04	0915	0915	0924	N10	E37	6660	06	7.2	9	SN			P	0915	83	1.1		E
	KHAR	04	0923	0925	0933	N11	E36	6660	06	7.1	10	SF		2	P	0925	80	1.0		EHL
0052	KHAR	04	0930U	0935U	0939	N31	E71	6659	06	10.0	9U	SF		2	P	0935				EH
0053		04	1005*	1022U	1032	N15	E42	6660A	06	7.6	27	SF					140	1.8		E
	HTPR	04	1005		1035	N14	E40	6660A	06	7.4	30	SF			C	1016	140	1.8		E
	KHAR	04	1020	1022U	1030	N16	E43	6660A	06	7.7	10	SF		2	V	1022				E
0054		04	1318*	1325*	1404	S09	W44	6652	06	1.2	46	SN	C	3.6			76	2.1		EFHK
	HOLL	04	1318	1325	1430	S09	W45	6652	06	1.2	72	SN	C	3.6		E	92			K
	HOLL	04	1318	1356	1430	S09	W45	6652	06	1.2	72	SN	C	5.6	3	E	97			FE
	HTPR	04	1320	1325	1415	S09	W43	6652	06	1.3	55	1N			C	1325	150	2.1		H
	RAMY	04	1324	1326	1328	S09	W45	6652	06	1.2	4	SF		3	E		31			F
	RAMY	04	1330	1331	1338	S09	W41	6652	06	1.5	8	SF		3	E		11			F
0055	HOLL	04	1326	1327	1334	N11	E33	6660	06	7.0	8	SF		3	E		35			F
0056	HOLL	04	1550	1556	1608	N10	E43	6663	06	7.9	18	SF		3	E		29			
0057	HOLL	04	1642	1644	1700	N10	E43	6663	06	7.9	18	SF	C	2.6	3	E	21			
0058	HOLL	04	1730	1730	1741	N10	E42	6667	06	7.9	11	SF		3	E		24			
		04	1734		1738	No Flare Patrol														

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0059	04	1743	1743	1748	S14	W64	6648	05	31.0	5	SF				16			
	PALE	04	1743	1743	1748	S14	W64	6648	05	31.0	5	SF	3	E	15			
	HOLL	04	1743	1745	1748	S13	W64	6648	05	31.0	5	SF	3	E	17			
0060	HOLL	04	1911	1914	1919	N10	E42	6667	06	7.9	8	SF	3	E	18			F
0061	HOLL	04	1943	1947	1951	N13	E53	6664	06	8.8	8	SF	3	E	17			
		04	2007		2019	No Flare Patrol												
0062	HOLL	04	2055	2101	2126	N10	E40	6667	06	7.9	31	SF	C 3.4	3	E	54		EF
0063	HOLL	04	2227	2228	2244	N12	E40	6667	06	7.9	17	SN	C 3.3	3	E	64		EF
0064	HOLL	04	2242	2245	2249	S19	E70	6666	06	10.3	7	SF	C 2.5	3	E	36		F
0065	HOLL	05	0003E	0003	0032	S09	W51	6652	06	1.2	29D	1N	3	E	196		EF	
0066	HOLL	05	0104	0105	0121	N12	E38	6667	06	7.9	17	SF	C 2.6	3	E	40		F
		05	0121		0123	No Flare Patrol												
		05	0206		0216	No Flare Patrol												
		05	0320		0353	No Flare Patrol												
0067	TACH	05	0447	0449	0502	N09	E23	6660	06	6.9	15	SB	2	C	0449	178	2.0	FZ
0068	TACH	05	0447	0449	0507	N09	E33	6663	06	7.7	20	1B	2	C	0449	280	3.5	F
0069	SVTO	05	0528	0540	0553	N31	E51	6659	06	9.2	25	SF	3	E	18			
0070	SVTO	05	0544	0550	0610	N11	E23	6660	06	7.0	26	SF	C 2.0	3	E	32		F
0071	SVTO	05	0549	0549	0611	N10	E36	6667	06	7.9	22	SF	3	E	11			
0072	05	0617	0617	0622	S10	W54	6652	06	1.2	5	SF				51	1.5	E	
	SVTO	05	0617	0617	0622	S10	W53	6652	06	1.3	5	SF	3	E	15			
	ABST	05	0617	0618	0621	S10	W54	6652	06	1.2	4	SF		C	0618	87	1.5	E
0073	YUNN	05	0703	0709	0713	N35	E59	6659	06	10.0	10	SN		C	16			
0074	05	0825*	0830	0852	N30	E59	6659	06	10.0	27	SN	C 2.4			26	0.7	DLZ	
	HTPR	05	0825	0900	N30	E62	6659	06	10.2	35	SF			C			D	
	KAND	05	0829	0831	0840	N30	E61	6659	06	10.1	11	SN		P	0831	42	1.0	DZ
	SVTO	05	0830	0830	0852	N30	E57	6659	06	9.8	22	SF	C 2.4	4	E	19		
	ISTA	05	0830	0832	0840	N32	E61	6659	06	10.2	10	SN		P				D
	YUNN	05	0835E	0836U	0836D	N32	E57	6659	06	9.9	1D	SN		P	0836	16	0.4	
	KHAR	05	0902		0910	N28	E55	6659	06	9.7	8	SN	2	V	0903			L
0075	KHAR	05	0950		1000	N19	E90		06	12.3	10	SF	2	V	0950			D
0076	HTPR	05	1025	1026	1032	N12	E70	6666A	06	10.7	7	SF		C				D
0077	KHAR	05	1035	1037	1053	N32	E55	6659	06	9.8	18	SF	2	V	1037			EL
0078	KHAR	05	1055	1058	1105	N16	E45	6664	06	8.9	10	SF	2	V	1058			
0079	KHAR	05	1105	1106	1113	N32	E48	6659	06	9.3	8	SF	2	V	1106			DH
0080	05	13206	13264	1338	S14	W70	6648	05	31.3	18	SN				10			
	HTPR	05	1320	1330	1345	S14	W70	6648	05	31.3	25	SN		C				
	RAMY	05	1326	1326	1330	S13	W70	6648	05	31.3	4	SF	3	E	10			
0081	05	13393	13423	1351	S09	W58	6652	06	1.2	12	SF	C 3.1			32	0.9		
	HTPR	05	1339	1345	1355	S09	W57	6652	06	1.3	16	SF		C	1345	50	0.9	
	HOLL	05	1342	1342	1347	S09	W58	6652	06	1.2	5	SF	C 3.1	2	E	13		
0082	HOLL	05	1518	1519	1527	N36	E48	6659	06	9.5	9	SF	3	E	23			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
								Region	Class							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0083		05	1540*	1549*	1644	N28	E50	6659	06	9.6	64	SF	C	7.7			35		FK	
	HOLL	05	1540	1549	1658	N28	E47	6659	06	9.3	78	SF			E		41		K	
	HOLL	05	1540	1559	1658	N28	E47	6659	06	9.3	78	SF	C	7.7	3	E	60		F	
	RAMY	05	1546	1550	1553	N28	E53	6659	06	9.8	7	SF			3	E	14			
	PALE	05	1655	1704	1709	N27	E51	6659	06	9.7	14	SF			3	E	25			
0084	HOLL	05	1605	1607	1618	S13	W57	6652	06	1.4	13	SF			3	E	20			
0085	HOLL	05	1606	1607	1622	S14	W71	6648	05	31.3	16	SF			3	E	26			
0086		05	1727*	17432	1902	N32	E50	6659	06	9.7	95	SF	M	1.0			68			
	HOLL	05	1727	1743	1834D	N32	E50	6659	06	9.7	67D	SF	M	1.0	3	E	62			
	PALE	05	1740	1745	1902	N32	E49	6659	06	9.6	82	SF			3	E	73			
0087	PALE	05	1843	1922	2002	S18	E62	6666	06	10.5	79	1B	M	1.5	3	E	220		F	
		05	2039		2059	No Flare Patrol														
		05	2120		2154	No Flare Patrol														
0088		05	2208	2209*	2218	S14	W78	6648	05	31.0	10	1F					59		DJT	
	PALE	05	2208	2209	2216	S14	W73	6648	05	31.4	8	SF			3	E	51			
	VORO	05	2208	2209	2219	S14	W80	6648	05	31.0	11	1F			2	C	2209	81	DJT	
	VORO	05	2228E	2228	2230D	S14	W80	6648	05	31.0	2D	1F			2	C	2228	45	DJT	
0089		05	2319	2334	2343	S09	W60	6652	06	1.5	24	SF					79	1.3	EJT	
	HOLL	05	2319	2334	2342	S09	W63	6652	06	1.2	23	SN			3	E	99			
	PALE	05	2327E	2331U	2345D	S09	W62	6652	06	1.3	18D	SF			3	E	65			
	VORO	05	2336E		2344	S09	W55	6652	06	1.8	8D	SF			2	C	72	1.3	EJT	
0090		05	2347	2348	2354	N08	E09	6660	06	6.7	7	SF					64	0.9	EIJT	
	HOLL	05	2347	2348	2353	N08	E09	6660	06	6.7	6	SF			3	E	38			
	VORO	05	2347	2348	2354	N09	E09	6660	06	6.7	7	SF			2	C	2348	90	0.9	EIJT
0091		06	0000*	0003*	0021	S13	W61	6652	06	1.4	21	SF					33	1.3	EFJT	
	VORO	06	0000	0003	0023	S12	W62	6652	06	1.3	23	SF			2	C	0005	63	1.3	EJT
	HOLL	06	0002	0005	0020	S13	W60	6652	06	1.5	18	SF			3	E	21			
	PALE	06	0013	0016	0021	S13	W60	6652	06	1.5	8	SF			3	E	14		F	
0092		06	0054	0107*	0202	N32	E45	6659	06	9.6	68	3B	X12.0				1754	36.8	EFHIJTUY	
	VORO	06	0054	0107	0130D	N34	E42	6659	06	9.4	36D	F			2	C	0107	2267	37.3	EHIJTU
	HOLL	06	0054	0111	0201D	N31	E43	6659	06	9.4	67D	3B			3	E	752			YF
	PALE	06	0054	0112	0215D	N33	E44	6659	06	9.5	81D	4B	X12.0		3	E				ZY
	PEKG	06	0100E	0107	0206	N31	E50	6659	06	10.0	66D	B			C	0107	3575	65.6		
	WATU	06	0120E	0120	0158	N32	E47	6659	06	9.8	38D	2B			P	0120	420	7.4	FZ	
0093		06	01135	0121*	0211	S19	E58	6666	06	10.5	58	2N					475	10.8	EFHKZ	
	HOLL	06	0113	0122	0201D	S20	E57	6666	06	10.4	48D	2B			3	E	496			
	PALE	06	0115	0121U	0215D	S18	E59	6666	06	10.5	60D	2B			3	E	465		ZH	
	VORO	06	0115	0122	0221	S18	E56	6666	06	10.3	66	2F			2	C	0122	556	10.3	E
	PALE	06	0115	0156	0215D	S18	E59	6666	06	10.5	60D	2B				E	288			K
	WATU	06	0118	0121	0157	S19	E58	6666	06	10.5	39	2N			C	0121	270	5.6	F	
	PEKG	06	0118	0123	0206	S21	E62	6666	06	10.8	48	3B			C	0123	1009	22.4	E	
	URUM	06	0150E	0150U	0220	S18	E59	6666	06	10.6	30D	1N			C		241	5.1	E	
0094	URUM	06	0150E	0150U	0300	N33	E49	6659	06	10.0	70D	3B			C		1045	19.5	F	
0095		06	04281	0437*	0521	S19	E56	6666	06	10.4	53	1N	M	1.1			120	2.2	BEF	
	SVTO	06	0428	0506	0552	S16	E55	6666	06	10.3	84	1F	M	1.1	3	E	140			
	URUM	06	0429	0437	0450	S20	E58	6666	06	10.6	21	SF			C		80	1.6	E	
	ONDR	06	0437E	0444U	0449U	S20	E54	6666	06	10.3	12U	1B			P	0444	141	2.7	EFB	
0096	SVTO	06	0532	0532	0536	S15	W85	6648	05	30.9	4	SF			3	E	26		H	
0097		06	0706	0713	0725	S11	W67	6652	06	1.2	19	1B					120	3.0	DETY	
	ISTA	06	0706		0730	S12	W68	6652	06	1.2	24	1B			P					Y
	URUM	06	0706E	0706U	0720	S09	W68	6652	06	1.2	14D	1B			C		113			E
	HURB	06	0708E	0713	0713D	S12	W65	6652	06	1.4	5D	1N								DT
	ATHN	06	0709E	0709U	0714D	S10	W66	6652	06	1.3	5D	1N			3	V	0709	127	3.0	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0098		06	0749	0755*	0832	N13	E22	6667	06	8.0	43	1B	M	1.4			342	4.4	EFU	
	ISTA	06	0749	0755	0823	N15	E20	6667	06	7.8	34	1B			P				U	
	WATU	06	0749	0801	0801D	N13	E24	6667	06	8.1	12D	1N			P	0801	350	4.0	F	
	URUM	06	0749	0805	0814	N13	E24	6667	06	8.1	25	2B			C		482	5.6	E	
	SVTO	06	0750E	0805	0907	N12	E21	6667	06	7.9	77D	1F	M	1.4	4	E	176			
	ATHN	06	0756E	0757U	0810D	N13	E21	6667	06	7.9	14D	1B			3	V	0757	287	3.2	
	KAND	06	0759E		0825	N13	E24	6667	06	8.1	26D	1B			P	0759	416	4.8	EU	
0099	KHAR	06	1147E		1200	N13	W62	6654	06	1.8	13D	1N			2	V	1153		EL	
0100	KHAR	06	1158		1205	N22	E06	6658	06	6.9	7	SF			2	V	1158		DH	
0101		06	13447	13511	1402	N10	E19	6667	06	8.0	18	SF					31		FH	
	HOLL	06	1344	1351	1406	N10	E19	6667	06	8.0	22	SF			3	E	45		FH	
	RAMY	06	1351	1352	1358	N10	E19	6667	06	8.0	7	SF			3	E	17		F	
0102		06	14233	1427	1436	S18	E52	6666	06	10.5	13	SF					18			
	HOLL	06	1423	1427	1433	S17	E53	6666	06	10.6	10	SF			3	E	15			
	RAMY	06	1426	1427	1438	S18	E50	6666	06	10.4	12	SF			3	E	21			
0103	HOLL	06	1427	1427	1438	N31	E36	6659	06	9.4	11	SF			3	E	14			
0104	HOLL	06	1428	1433	1446	S20	E78	6669	06	12.6	18	SF			3	E	28			
0105	HOLL	06	1532	1533	1539	S11	W69	6652	06	1.4	7	SF			3	E	21		F	
0106		06	1650	16511	1710	S18	E48	6666	06	10.3	20	SF					39	0.8	F	
	HOLL	06	1650	1651	1719	S18	E48	6666	06	10.3	29	SF			3	E	28		F	
	HTPR	06	1650	1652	1700	S19	E47	6666	06	10.3	10	SF			C	1652	50	0.8		
0107		06	16571	1700	1721	S09	W73	6652	06	1.2	24	1N	C	9.1			190		FH	
	HOLL	06	1657	1700	1718	S09	W74	6652	06	1.1	21	1N	C	9.1	3	E	208		FH	
	HTPR	06	1658		1715	S09	W75	6652	06	1.1	17	SN			C					
	PALE	06	1710E	1715U	1729	S10	W71	6652	06	1.4	19D	1F			3	E	171			
0108		06	1730	1740	1837	S18	E48	6666	06	10.4	67	2B	M	3.9			343	7.0		
	HTPR	06	1730	1740	1809D	S19	E46	6666	06	10.2	39D	2B			C	1740	450	7.0		
	PALE	06	1731E	1745U	1837	S16	E50	6666	06	10.5	66D	1B	M	3.9	3	E	236			
0109		06	1906*	1908*	1947	N15	E24	6664	06	8.6	41	SF	C	2.6			36		FH	
	HOLL	06	1906	1908	1947	N14	E25	6664	06	8.7	41	SF	C	2.6	3	E	56		FH	
	PALE	06	1920	1924	1935D	N16	E24	6664	06	8.6	15D	SF			3	E	16			
0110	HOLL	06	1951	1956	2009	S09	W71	6652	06	1.5	18	SF			3	E	52			
0111	HOLL	06	2001	2004	2025	N13	E18	6667	06	8.2	24	SF	C	2.5	3	E	43		F	
0112		06	2105*	2112*	2128	N08	W01	6660	06	6.8	23	SF					16			
	HOLL	06	2105	2112	2120	N09	E00	6660	06	6.9	15	SF			3	E	16			
	HOLL	06	2121	2124	2135	N08	W02	6660	06	6.7	14	SF			3	E	17			
0113	HOLL	06	2140	2143	2157	S17	E50	6666	06	10.7	17	SF	C	1.9	3	E	19			
0114	HOLL	06	2222	2245	2320	N06	W03	6660	06	6.7	58	SF			3	E	61		F	
0115	HOLL	06	2342	2347	2414	N09	W02	6660	06	6.8	32	1F			3	E	111		F	
0116		07	0013*	0038*	0419	N29	E24	6659	06	8.9	246	3N	M	4.2			783	14.5	BEFIJKTU	
	LEAR	07	0013	0039	0452	N27	E24	6659	06	8.9	279	3B			E		366		KT	
	LEAR	07	0013	0051	0452	N27	E24	6659	06	8.9	279	3B	M	4.2	3	E	648		FT	
	HOLL	07	0020	0038	0201D	N26	E24	6659	06	8.9	101D	2B			E		200		K	
	HOLL	07	0020	0051	0201D	N26	E24	6659	06	8.9	101D	2B			3	E	484		UF	
	PALE	07	0026E	0101	0444D	N31	E30	6659	06	9.4	258D	3N			E		656		KT	
	PALE	07	0026E	0116U	0444D	N31	E30	6659	06	9.4	258D	3N			3	E	983		FT	
	VORO	07	0029	0053	0240D	N29	E22	6659	06	8.7	131D	3F			2	C	0120	1156	14.7	
	WATU	07	0046	0157	0311	N28	E23	6659	06	8.8	145	2B			C	0157	930	12.0	F	
	YUNN	07	0305E	0305U	0317D	N32	E20	6659	06	8.7	12D	3N			P	0305	1258	16.2		
	TACH	07	0307E		0420	N32	E24	6659	06	9.0	73D	3F			2	C	0307	1148	15.2	BUYZI

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
							Region	Day							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0117	HOLL	07 0044	0046U	0050	S15	E30	6668	06	9.3	6	SF	3	E		31			
0118		07 0239	0241	0258	N07	W04	6660	06	6.8	19	SF				32			
	PALE	07 0237E	0242U	0247	N05	W05	6660	06	6.7	10D	SF	3	E		29			
	LEAR	07 0239	0241	0309	N09	W03	6660	06	6.9	30	SF	3	E		35			
0119		07 0304	0306	0314	S21	E73	6669	06	12.7	10	SF				28			G
	LEAR	07 0304	0306	0315	S23	E74	6669	06	12.8	11	SF	3	E		37			
	YUNN	07 0305E	0306	0314	S18	E73	6669	06	12.7	9D	SN		P		24			G
	PALE	07 0306	0306	0312	S22	E73	6669	06	12.7	6	SF	3	E		23			
0120		07 0341*	0402*	0445	N09	W04	6660	06	6.8	64	SF				147	3.0		F
	LEAR	07 0341	0402	0458	N09	W04	6660	06	6.8	77	SF	3	E		70			
	TACH	07 0400	0410	0438	N08	W04	6660	06	6.9	38	1F	2	C	0410	280	3.0		F
	SVTO	07 0410	0415	0440	N09	W04	6660	06	6.9	30	SF	1	E		90			
0121	LEAR	07 0531	0534	0549	N13	E12	6667	06	8.1	18	SF	3	E		29			F
0122		07 0612	0613	0628	N08	W08	6660	06	6.6	16	SB M 1.3				88	0.6		DE
	ISTA	07 0612		0626	N07	W06	6660	06	6.8	14	SB		P					D
	LEAR	07 0613	0613	0632	N08	W09	6660	06	6.6	19	1B M 1.3	3	E		137			
	SVTO	07 0615E	0616U	0626	N08	W09	6660	06	6.6	11D	SB	1	E		74			
	ONDR	07 0616E	0616U	0627U	N09	W07	6660	06	6.7	11U	SN		P	0616	53	0.6		E
0123		07 0615	0619	0633	N06	W76	6654	06	1.6	18	1N				69	2.9		DEY
	LEAR	07 0615	0619	0642	N05	W75	6654	06	1.6	27	SF	3	E		86			
	ONDR	07 0616E	0621	0642U	N07	W75	6654	06	1.6	26U	1B		P	0621	71	2.9		EY
	SVTO	07 0618E	0619	0623	N06	W76	6654	06	1.6	5D	SF	2	E		50			
	ISTA	07 0619		0633	N06	W79	6654	06	1.3	14	1B		P					D
0124	ISTA	07 0625		0631	S21	E72	6669	06	12.8	6	1B		P					D
0125		07 0635	0639U	0641	S10	W79	6652	06	1.3	6	2B				106	7.5		DEF
	ISTA	07 0635		0641	S10	W76	6652	06	1.6	6	1B		P					D
	ONDR	07 0635	0639U	0643U	S11	W82	6652	06	1.1	8U	2N		P	0639	106	7.5		EF
0126		07 0635	0638	0646	N35	E30	6659	06	9.7	11	SN				30	0.7		I
	ISTA	07 0635		0647	N32	E33	6659	06	9.9	12	1B		P					I
	LEAR	07 0636	0638	0641	N35	E30	6659	06	9.7	5	SF	3	E		12			
	YUNN	07 0638E	0639	0651	N37	E27	6659	06	9.4	13D	SN		P		47	0.7		
0127	LEAR	07 0651	0652	0709	N09	W06	6660	06	6.8	18	SF	3	E		17			
0128		07 0705	0708	0738	S20	E42	6666	06	10.5	33	1B M 1.4				181	2.6		EFIZ
	LEAR	07 0705	0708	0759	S20	E41	6666	06	10.4	54	1B M 1.4	3	E		195			F
	ISTA	07 0706		0735	S19	E45	6666	06	10.7	29	1B		P					I
	KAND	07 0707E		0735	S20	E43	6666	06	10.6	28D	1B		P	0715	208	3.0		EZ
	SVTO	07 0707E	0715	0739D	S19	E42	6666	06	10.5	32D	1N	2	E		173			
	WATU	07 0708	0717	0724	S22	E40	6666	06	10.4	16	1F		C	0717	190	2.8		
	ONDR	07 0709E	0710	0736	S22	E41	6666	06	10.4	27D	SB		P	0710	141	2.1		E
0129	KHAR	07 0720E		0735	N12	W04	6660	06	7.0	15D	1F	2	P	0722	330	3.5		BE
0130	LEAR	07 0806	0815	0836	S19	E41	6666	06	10.5	30	SF C 7.2	3	E		33			F
0131		07 0805	0812	0847	N10	W06	6660	06	6.9	42	1N				174	2.6		EFO
	SVTO	07 0804E	0812U	0845	N09	W07	6660	06	6.8	41D	SF	2	E		57			
	KAND	07 0805	0816	0833	N09	W05	6660	06	7.0	28	SB		P	0816	145	1.5		E
	LEAR	07 0812E	0812	0903	N10	W06	6660	06	6.9	51D	1N	3	E		146			FE
	YUNN	07 0815E	0816	0840D	N11	W07	6660	06	6.8	25D	1N		P		346	3.7		O
0132	ATHN	07 1013E	1013U	1027D	S19	E38	6666	06	10.3	14D	1B	3	V	1013	223	3.1		
0133	KHAR	07 1156	1200U	1205	N10	W06	6660	06	7.0	9	SN	1	V	1200				
0134	SVTO	07 1233	1234	1247	N33	E30	6659	06	9.9	14	SF C 2.8	3	E		32			
0135	HOLL	07 1254	1300	1309	N31	E30	6659	06	9.9	15	SF C 2.6	3	E		36			F

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0136	HOLL	07	1354	1355	1400	N29 E28	6659	06	9.8	6	SF		3	E		23		EH
0137	HOLL	07	1355	1418	1438	S09 W85	6652	06	1.2	43	SF		3	E		66		
0138	SVTO	07	1451	1456	1502	N08 W14	6660	06	6.6	11	SF	C 2.0	3	E		27		
0139	PALE	07	1651	1653	1709	N28 E18	6659	06	9.1	18	SF		3	E		13		
0140		07	2014	2015	2026	N08 W12	6660	06	6.9	12	SF					21		F
	HOLL	07	2014	2015	2026	N08 W13	6660	06	6.9	12	SF		3	E		21		F
	PALE	07	2015	2016	2026	N08 W11	6660	06	7.0	11	SF		3	E		21		
0141	PALE	07	2212	2217	2222	N35 E29	6659	06	10.2	10	SF	C 2.2	3	E		15		
0142	PALE	08	0203	0204	0207	N33 E18	6659	06	9.5	4	SF		3	E		11		
0143		08	0413	0414	0416	N31 E16	6659	06	9.4	3	SN	C 2.6				66	1.2	DZ
	PALE	08	0413	0414	0416	N32 E16	6659	06	9.4	3	SF	C 2.6	3	E		39		
	TACH	08	0413	0414	0417	N30 E17	6659	06	9.5	4	SN		3	C	0414	92	1.2	DZ
0144	TACH	08	0432	0434	0454	N08 W22	6660	06	6.5	22	SN		3	C	0434	46	0.5	E
0145	HTPR	08	0603E		0824D	S03 W90	6655	06	1.5	141D	SF			C				
0146		08	0648	0653	0658	N10 W22	6660	06	6.6	10	SF					87	1.0	DH
	HTPR	08	0648		0658	N10 W21	6660	06	6.7	10	SF			C	0653	90	1.0	H
	PEKG	08	0648	0653	0658	N09 W23	6660	06	6.5	10	SF			C	0653	84	0.9	D
0147	ISTA	08	0828		0830	N31 E17	6659	06	9.7	2	SF			P				E
0148	HTPR	08	0834E	0840	0843	N33 E10	6659	06	9.1	9D	SF			C	0840	50	0.6	T
0149	HTPR	08	0855	0905	0920	N15 W24	6658	06	6.5	25	SF			C	0905	60	0.7	
0150	HTPR	08	0950	1003	1030	S17 E12	6674D	06	9.3	40	SF			C	1003	10	0.1	DH
0151		08	1022	1033*	1130	S22 E56	6669	06	12.7	68	1N					95	2.0	K
	HTPR	08	1022	1033	1130	S22 E55	6669	06	12.6	68	SN			C	1033	80	1.9	K
	HTPR	08	1022	1059	1130	S23 E58	6669	06	12.9	68	1N			C	1059	110	2.2	K
0152		08	13159	13242	1345	N34 E14	6659	06	9.7	30	SF	C 5.7				51	1.0	EF
	HTPR	08	1315	1326	1345	N35 E13	6659	06	9.6	30	SN			C	1326	90	1.0	
	HOLL	08	1321	1324	1349	N34 E14	6659	06	9.7	28	SF	C 5.7	3	E		46		FE
	RAMY	08	1324	1324	1340	N34 E16	6659	06	9.8	16	SF		3	E		18		F
0153		08	14077	14106	1416	N32 E10	6659	06	9.4	9	SN					35	0.4	D
	HTPR	08	1407	1410	1412	N32 E10	6659	06	9.4	5	SF			C	1410	30	0.4	D
	HTPR	08	1414	1416	1419	N33 E09	6659	06	9.3	5	SN			C	1416	40	0.5	D
0154	HOLL	08	1417	1434	1506	N07 W19	6660	06	7.2	49	SF		3	E		44		F
0155		08	15288	15364	1600	N36 E13	6659	06	9.7	32	SF	C 4.1				84	1.7	F
	HTPR	08	1528	1540	1615	N35 E13	6659	06	9.7	47	SF			C	1540	130	1.7	
	RAMY	08	1536	1536	1545	N36 E13	6659	06	9.7	9	SF	C 4.1	3	E		38		F
0156		08	16334	16387	1655	N37 E15	6659	06	9.9	22	SF	C 3.6				27	0.6	EF
	HTPR	08	1633	1638	1655	N38 E15	6659	06	9.9	22	SF			C	1638	50	0.6	E
	HOLL	08	1637	1640	1650	N36 E15	6659	06	9.9	13	SF	C 3.6	3	E		15		
	PALE	08	1639E	1645	1659	N37 E15	6659	06	9.9	20D	SF		3	E		16		F
0157		08	1702*	1702*	1732	N32 E10	6659	06	9.5	30	SF	C 3.7				22		F
	HOLL	08	1702	1702	1729	N32 E09	6659	06	9.4	27	SF	C 3.7	3	E		14		F
	PALE	08	1716	1725	1734	N33 E10	6659	06	9.5	18	SF		3	E		31		F
0158	HOLL	08	1803	1803	1808	N32 E09	6659	06	9.5	5	SF		3	E		18		EF
0159		08	18541	18561	1918	N34 E10	6659	06	9.6	24	SF	C 3.8				22		EF
	PALE	08	1854	1857	1919	N34 E10	6659	06	9.6	25	SF	C 3.8	3	E		21		F
	HOLL	08	1855	1856	1918	N33 E10	6659	06	9.6	23	SF		3	E		24		FE

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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)
			08 2108		2117	No Flare Patrol												
0160	PALE	08	2120E	2120U	2142D	S17	E20	6666	06	10.4	22D	SF	3	E	19			
			08 2133		2140	No Flare Patrol												
			08 2146		2149	No Flare Patrol												
			08 2224		2344	No Flare Patrol												
0161		09	01342	0132*	0406	N34	E06	6659	06	9.5	152	2B	X10.0		624	7.8	EFIKY	
	URUM	09	0125E	0132	0146D	N35	E07	6659	06	9.6	21D	2B		C	563	7.2	F	
	PEKG	09	0134	0138	0140D	N35	E05	6659	06	9.5	6D	2B		P	0138	673	8.2	E
	WATU	09	0136	0157	0330	N32	E10	6659	06	9.8	114	2N		C	0157	420	5.2	FI
	PALE	09	0137E	0140U	0424	N34	E04	6659	06	9.4	167D	3B	X10.0	3	E	685		YF
	PALE	09	0137E	0200	0424	N34	E04	6659	06	9.4	167D	3B		E	540		K	
	YUNN	09	0146E	0155U	0405	N33	E08	6659	06	9.7	139D	2B		P	0155	865	10.7	
0162		09	04233	0429I	0508	N09	W32	6660	06	6.8	45	SF			24		F	
	SVTO	09	0423	0430	0533	N09	W31	6660	06	6.8	70	SF		3	E	31		
	PALE	09	0426	0429	0443	N09	W32	6660	06	6.8	17	SF		3	E	16		F
0163		09	05448	0549S	0603	N30	E01	6659	06	9.3	19	SN	M 1.9		140	1.7	DEF	
	YUNN	09	0544	0549	0557	N30	E01	6659	06	9.3	13	SN		C	157	1.9		
	ABST	09	0548	0549	0557	N34	E04	6659	06	9.6	9	SN		C	0549	157	1.9	E
	PEKG	09	0548	0550	0556	N32	E03	6659	06	9.5	8	SB		C	0550	168	2.0	D
	SVTO	09	0548	0550	0632	N27	W04	6659	06	8.9	44	1N	M 1.9	3	E	125		F
	WATU	09	0549E	0549	0549D	N32	E04	6659	06	9.5	44D	SN		P	0549	140	1.7	
	URUM	09	0550E	0551	0600	N31	E02	6659	06	9.4	10D	SN		C	113	1.4	E	
	ONDR	09	0551	0553	0600	N32	E04	6659	06	9.6	9	SF		P	0553	71	0.9	E
	YUNN	09	0552	0554	0600	N25	W09	6659	06	8.5	8	1N		C	189	2.2		
0164		09	0541	0608	0634	S07	W90	6654C	06	2.5	53	2B					ACY	
	YUNN	09	0541	0608	0638	S07	W90	6654C	06	2.5	57			C			A	
	ONDR	09	0603E		0629	S07	W90	6654C	06	2.5	26D	2B		P			CYA	
0165		09	0602I	0603	0616	S14	E09	6668	06	9.9	14	SN			29	0.5	F	
	SVTO	09	0602	0603	0616	S13	E09	6668	06	9.9	14	SF		3	E	11		F
	YUNN	09	0603	0607U	0617	S15	E09	6668	06	9.9	14	SN		P	0607	47	0.5	
0166	WATU	09	0603	0608	0611	S23	E47	6669	06	12.9	8	SF		C	0608	50	0.8	
0167		09	0604	0609	0646	N12	W20	6667	06	7.7	42	SN			64	0.7	F	
	SVTO	09	0604	0609	0655	N12	W19	6667	06	7.8	51	SF		3	E	65		F
	YUNN	09	0608E	0608U	0638	N12	W20	6667	06	7.7	30D	SN		P	0608	63	0.7	
0168	SVTO	09	0738	0739	0755	S21	E46	6669	06	12.8	17	SF		3	E	14		
0169	SVTO	09	0841	0847	0854	N31	E00	6659	06	9.4	13	SF	C 3.8	3	E	32		
0170		09	0945I	0953Z	1003	N30	W01	6659	06	9.3	18	SF	M 1.2		91	1.2	E	
	SVTO	09	0945	0953	1020D	N28	W04	6659	06	9.1	35D	SF	M 1.2	3	E	70		
	URUM	09	0946	0955	1005	N31	W00	6659	06	9.4	19	SN		C	96	1.2	E	
	ONDR	09	0954E	0954U	1001	N32	E00	6659	06	9.4	7D	SF		P	0954	106	1.3	E
0171		09	10588	10589	1120	N31	W06	6659	06	9.0	22	SF	C 4.9		26		F	
	RAMY	09	1058	1058	1106	N30	W10	6659	06	8.7	8	SF	C 4.9	3	E	15		F
	SVTO	09	1106	1107	1133	N32	W01	6659	06	9.4	27	SF		3	E	37		
0172		09	1227S	1232	1239	N28	E04	6659	06	9.8	12	SF	C 2.3		24		F	
	SVTO	09	1227	1232	1242	N28	E03	6659	06	9.7	15	SF	C 2.3	3	E	18		
	RAMY	09	1232	1232	1236	N28	E04	6659	06	9.8	4	SF		3	E	29		F
0173		09	13004	1317I	1339	N28	W02	6659	06	9.4	39	1N	M 1.2		104		F	
	SVTO	09	1300	1318	1343	N27	W06	6659	06	9.1	43	1N	M 1.2	4	E	117		F
	RAMY	09	1304	1317	1335	N28	E03	6659	06	9.8	31	SF		3	E	91		F
0174		09	13584	1403	1416	S14	E02	6668	06	9.7	18	SF			19		F	
	SVTO	09	1358	1403	1425	S14	E02	6668	06	9.7	27	SF		4	E	21		F
	RAMY	09	1402	1403	1407	S13	E02	6668	06	9.7	5	SF		3	E	17		F

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks	
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0175	RAMY	09 1444	1445	1451	S11	E06	6668A	06 10.1	7	SF	3	E		10			
0176		09 15191	15224	1542	S14	E02	6668	06 9.8	23	SF C 2.7				52			F
	SVTO	09 1519	1526	1545	S14	E01	6668	06 9.7	26	SF C 2.7	4	E		42			F
	RAMY	09 1520	1522	1540	S13	E02	6668	06 9.8	20	SF	3	E		61			
0177	SVTO	09 1710	1721	1744	S14	W02	6668	06 9.6	34	SF	3	E		37			
0178	PALE	09 1814	1816	1824	N32	W06	6659	06 9.3	10	SF C 4.7	3	E		43			F
		09 1913		1921			No Flare Patrol										
		09 1942		1955			No Flare Patrol										
0179	PALE	09 2004E	2004U	2018	N31	W07	6659	06 9.3	14D	SF M 1.3	3	E		60			F
0180		09 2208	2210	2221	N34	E02	6659	06 10.1	13	SF				35			F
	PALE	09 2208	2210	2221	N35	E03	6659	06 10.2	13	SF	3	E		29			
	HOLL	09 2209E	2210U	2222D	N34	E02	6659	06 10.1	13D	SF	1	E		41			F
0181	PALE	09 2245	2249	2253	N36	W04	6659	06 9.6	8	SF C 4.4	3	E		21			F
0182	PALE	10 0032	0034	0043	S13	W04	6668	06 9.7	11	SF C 9.6	3	E		67			
0183	PALE	10 0058	0058	0124D	S13	W03	6668	06 9.8	26D	SF C 2.1	3	E		16			F
0184	VORO	10 0154	0156	0204	S14	W03	6668	06 9.8	10	SF	1	C	0156	90	0.9		DIJ
0185		10 02243	02287	0249	N31	W11	6659	06 9.2	25	1N M 4.5				280	4.9		DFIJ
	PALE	10 0224	0228	0235	N31	W10	6659	06 9.3	11	1N M 4.5	3	E		237			F
	LEAR	10 0227	0235	0254	N30	W12	6659	06 9.1	27	1N	3	E		200			F
	VORO	10 0229E	0229	0257	N32	W11	6659	06 9.2	28D	1F	1	C	0229	403	4.9		DIJ
0186	TACH	10 0301E		0318	S15	W08	6668	06 9.5	17D	SN	3	C	0304	41	0.4		E
0187	LEAR	10 0303E	0305	0315	S16	E05	6666	06 10.5	12D	SF	2	E		49			F
0188		10 03422	0343U	0400D	N29	W14	6659	06 9.0	18D	SN				61	1.0		DTZ
	TACH	10 0342		0346D	N31	W09	6659	06 9.4	4D	SB	3	C	0346	71	0.8		DZ
	PALE	10 0343E	0343U	0400D	N30	W12	6659	06 9.2	17D	SF	3	E		15			
	TACH	10 0344		0346D	N25	W20	6659	06 8.6	2D	SB	3	C	0346	97	1.2		DT
0189		10 0400	0410	0422	N28	W17	6659	06 8.8	22	SN				116	1.7		DFT
	TACH	10 0400	0410	0432	N25	W20	6659	06 8.6	32	SB	2	C	0410	137	1.7		DT
	LEAR	10 0407E	0407U	0412	N30	W14	6659	06 9.1	5D	SF	2	E		96			F
0190	TACH	10 0407	0409	0417	S14	W06	6668	06 9.7	10	SN	2	C	0409	61	0.7		ET
0191		10 0445	0451	0545	N27	W22	6659	06 8.5	60	SN				129	1.6		ET
	YUNN	10 0435E	0448U	0452D	N30	W22	6659	06 8.5	17D	SN		P	0448	126	1.6		
	TACH	10 0445	0451	0545	N24	W22	6659	06 8.5	60	SN	1	C	0451	132	1.6		ET
0192	TACH	10 0443	0445	0521	N31	W04	6659	06 9.9	38	SN	1	C	0445	31	0.4		ETZ
0193		10 0524	0531*	0626	N29	W14	6659	06 9.1	62	1N				102			FK
	SVTO	10 0524	0531	0626	N29	W14	6659	06 9.1	62	1N	3	E		156			F
	SVTO	10 0524	0559	0626	N29	W14	6659	06 9.1	62	SN		E		49			K
0194	SVTO	10 0640	0839	0918	S15	W07	6668	06 9.7	158	SF	4	E		48			F
0195	SVTO	10 0709	0711	0718	N30	W12	6659	06 9.3	9	SF	3	E		13			
0196	SVTO	10 0726	0927	0949	N31	W11	6659	06 9.4	143	SN C 4.5	4	E		78			EF
0197	SVTO	10 1015	1021	1031	N30	W13	6659	06 9.4	16	SF	4	E		37			
0198	SVTO	10 1029	1038	1054	S15	W01	6666	06 10.4	25	SF	4	E		37			F

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0199		10 1057	1103*	1146	N30	W16 6659	06	9.2	49	1N	M 1.2				80		FK	
	SVTO	10 1057	1103	1147	N28	W20 6659	06	8.9	50	1N	M 1.2	3	E		122			
	SVTO	10 1057	1130	1147	N28	W20 6659	06	8.9	50	1N			E		73		K	
	RAMY	10 1059E	1109	1146	N31	W13 6659	06	9.4	47D	SF			E		99		K	
	RAMY	10 1059E	1130	1146	N31	W13 6659	06	9.4	47D	SF		3	E		24		F	
0200	RAMY	10 1237	1246	1300	N31	W14 6659	06	9.4	23	SF		3	E		51		F	
0201	RAMY	10 1255	1302	1313	S14	W10 6668	06	9.8	18	SF	C 5.2	3	E		49		EF	
0202	RAMY	10 1336	1338	1349	S13	W11 6668	06	9.7	13	SF	C 4.9	3	E		77		F	
0203		10 1353	1356*	1527	N27	W25 6659	06	8.6	94	1N	M 6.4				136		EF	
	RAMY	10 1353	1356	1527	N29	W21 6659	06	8.9	94	1N	M 6.4	3	E		136		FE	
	KANZ	10 1459E	1503	1519D	N25	W29 6659	06	8.4	20D	SF		2	C					
0204		10 15231	1526*	1545	S15	W12 6668	06	9.7	22	SF					27		FK	
	SVTO	10 1523	1526	1552	S15	W12 6668	06	9.7	29	SF			E		29		K	
	SVTO	10 1523	1547	1552	S15	W12 6668	06	9.7	29	SF		3	E		23			
	RAMY	10 1524	1527	1532	S14	W12 6668	06	9.7	8	SF		3	E		28		F	
0205		10 1530*	1534*	1554	N32	W11 6659	06	9.8	24	SF					22		F	
	RAMY	10 1530	1536	1553	N34	W11 6659	06	9.8	23	SF		3	E		36		F	
	SVTO	10 1531	1534	1547	N33	W13 6659	06	9.6	16	SF		3	E		13			
	RAMY	10 1558	1559	1603	N30	W09 6659	06	9.9	5	SF		3	E		17			
0206	SVTO	10 1609	1611	1617	N14	W30 6664	06	8.4	8	SF		3	E		16			
0207		10 16312	1633	1638	N30	W11 6659	06	9.8	7	SF					24			
	RAMY	10 1631	1633	1639	N30	W09 6659	06	10.0	8	SF		3	E		30			
	SVTO	10 1633	1633	1638	N31	W13 6659	06	9.7	5	SF		3	E		19			
0208		10 1638	1639*	1650	S14	W11 6668	06	9.9	12	SF					22			
	SVTO	10 1638	1639	1646	S15	W12 6668	06	9.8	8	SF		3	E		13			
	RAMY	10 1638	1640	1643	S13	W14 6668	06	9.6	5	SF		3	E		28			
	PALE	10 1647E	1649	1701	S14	W06 6668	06	10.2	14D	SF		3	E		24			
0209		10 16531	1654*	1754	N34	W13 6659	06	9.7	61	SN	M 3.2				62		FK	
	RAMY	10 1653	1654	1801	N35	W11 6659	06	9.8	68	SN	M 3.2	3	E		84		F	
	PALE	10 1653E	1655U	1741	N34	W14 6659	06	9.6	48D	SN		3	E		78			
	RAMY	10 1653	1759	1801	N35	W11 6659	06	9.8	68	SF			E		56		K	
	SVTO	10 1654	1654	1739D	N33	W14 6659	06	9.6	45D	SB		3	E		55			
	SVTO	10 1654	1730	1739D	N33	W14 6659	06	9.6	45D	SF			E		36		K	
		10 1935		1939	No Flare Patrol													
0210	RAMY	10 1942	1947	1949D	N31	W19 6659	06	9.3	7D	SF		3	E		35		F	
0211	RAMY	10 1947	1949	1949D	S16	W11 6668	06	10.0	2D	SF		3	E		36		F	
		10 1950		2132	No Flare Patrol													
0212	VORO	10 2133E		2146	N27	W20 6659	06	9.3	13D	SN		1	C				DIJT	
0213	VORO	10 2133E		2143	S17	W14 6668	06	9.8	10D	SF		1	C				EIJ	
0214	VORO	10 2202E	2204	2251	N27	W20 6659	06	9.3	49D	SF		1	C	2204	81	1.0	DIJKTU	
0215	PEKG	11 0021	0023	0027	N34	W15 6659	06	9.8	6	SF			C	0023	42	0.5	D	
0216		11 0105*	0108*	0324	N32	W15 6659	06	9.8	139	2B	X12.0				1013	17.0	EFITVYZ	
	PEKG	11 0105	0108	0130	N34	W16 6659	06	9.8	25	1N			C	0108	168	2.1	E	
	URUM	11 0116E	0227	0406	N33	W12 6659	06	10.1	170D	B			C		2170	27.1	FITVZ	
	PEKG	11 0128	0205	0249D	N34	W16 6659	06	9.8	81D	3B			C	0205	1724	21.7	E	
	LEAR	11 0209E	0229U	0320D	N31	W17 6659	06	9.7	71D	3B	X12.0	1	E		920		F	
	PALE	11 0232E	0344U	0344D	N35	W16 6659	06	9.8	72D	1B		3	E		247		F	
	TACH	11 0304		0437	N30	W19 6659	06	9.6	93	3B		1	C	0305	1377	17.2	FIZ	
	SVTO	11 0341E	0341U	0353D	N29	W11 6659	06	10.3	12D	2N	M 2.2	2	E		487		YF	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region	Day								Apparent (10-6 Disk)	Corr (Sq Deg)	
0217		11	0443	0446	0458	N30	W26	6659	06	9.1	15	1N					162	2.2	E
	TACH	11	0443		0458	N28	W26	6659	06	9.2	15	SF	1	C	0443		82	1.1	E
	URUM	11	0444	0446	0459	N31	W25	6659	06	9.2	15	1N		C			241	3.2	E
0218		11	0456	0502	0510	S18	W20	6668	06	9.7	14	SF					82	1.0	EV
	URUM	11	0456	0502	0511	S17	W20	6668	06	9.7	15	SF		C			113	1.3	E
	TACH	11	0458		0510	S18	W21	6668	06	9.6	12	SF	1	C	0458		51	0.6	V
0219		11	0603*	06458	0656	N28	W27	6659	06	9.1	53	SF					28	0.4	
	SVTO	11	0603	0653	0658	N30	W27	6659	06	9.1	55	SF	3	E			26		
	YUNN	11	0637	0645	0653	N27	W27	6659	06	9.2	16	SF		C			31	0.4	
0220		11	0734	0734	0750	S21	E19	6669	06	12.8	16	SF					47	0.6	
	YUNN	11	0734E	0734	0750	S22	E18	6669	06	12.7	16D	SN		P			16	0.2	
	SVTO	11	0734	0735	0749	S20	E20	6669	06	12.8	15	SF	4	E			26		
	HTPR	11	0734	0735	0750	S22	E18	6669	06	12.7	16	SF		C	0735		100	1.1	
0221	YUNN	11	0750	0817U	0836	N33	W28	6659	06	9.1	46	SN		P	0817		24	0.3	
0222		11	0759	0800	0808	S14	W24	6668	06	9.5	9	SN					76	0.8	CDZ
	HTPR	11	0759	0800	0810	S14	W25	6668	06	9.4	11	SF		C	0800		90	1.0	
	KAND	11	0800	0800	0805	S15	W24	6668	06	9.5	5	SB		P	0800		62	0.7	CDZ
0223	ISTA	11	0807		0811	S23	E17	6669	06	12.6	4	SF		P					D
0224		11	0827	0832	0848	N36	W20	6659	06	9.7	21	SN					33	0.4	
	YUNN	11	0827	0833	0845	N38	W21	6659	06	9.6	18	SN		C			16	0.2	
	HTPR	11	0831	0832	0850	N35	W19	6659	06	9.8	19	SN		C	0832		50	0.7	
0225		11	0915	0916	0922	N28	W17	6659	06	10.0	7	SN					71	0.8	E
	URUM	11	0915	0916	0920	N27	W18	6659	06	10.0	5	SN		C			80	1.0	E
	KAND	11	0915	0917	0923	N28	W16	6659	06	10.1	8	SN		P	0917		62	0.7	E
0226	KHAR	11	0939		0955	N31	W27	6659	06	9.3	16	SF	2	P	0939		120	1.5	EZ
0227		11	0951	0952	1010	S16	W22	6668	06	9.7	20	SN					86	1.2	EF
	URUM	11	0951	0952	1010	S16	W24	6668	06	9.6	19	SN		C			64	0.8	E
	SVTO	11	0951	0952	1016	S17	W22	6668	06	9.7	25	SN	4	E			34		FE
	HTPR	11	0951	0953	1010	S17	W22	6668	06	9.7	19	SF		C	0953		70	0.8	
	KAND	11	0951	0955	1008	S16	W21	6668	06	9.8	17	SB		P	0955		104	1.2	E
	KHAR	11	0953	0954	1010D	S16	W23	6668	06	9.7	17D	SN	2	P	0956		160	1.9	E
0228		11	1007*	1027	1040	N31	W26	6659	06	9.4	33	SF					28		EF
	SVTO	11	1007	1027	1043	N29	W25	6659	06	9.5	36	SF	4	E			28		F
	KHAR	11	1020		1038	N33	W26	6659	06	9.4	18	SF	2	V	1025				E
0229	KHAR	11	1050	1052	1059	N38	W23	6659	06	9.6	9	SF	2	V	1052				D
0230		11	1112	1115	1123	S16	W23	6668	06	9.7	11	SF					73	1.2	EF
	HTPR	11	1112	1115	1125	S17	W22	6668	06	9.8	13	SF		C	1115		50	0.6	
	RAMY	11	1115	1116	1119	S15	W23	6668	06	9.7	4	SF	3	E			20		F
	KHAR	11	1116	1117	1126	S16	W24	6668	06	9.6	10	SF	2	P	1120		150	1.8	E
0231	SVTO	11	1114	1116	1120	S15	W15	6666	06	10.3	6	SF	3	E			27		
0232	KHAR	11	1115U		1127U	S21	E17	6669	06	12.8	12U	SF	2	P	1120		110	1.3	D
0233	KHAR	11	1122	1123	1130	N31	W28	6659	06	9.3	8	SF	2	P	1123				D
0234		11	1135	1139	1210	N12	E13	6671	06	12.5	35	SN					30	0.3	DH
	HTPR	11	1135	1139	1210	N11	E15	6671	06	12.6	35	SN		C	1139		30	0.3	
	KHAR	11	1141U	1141	1150D	N14	E11	6671	06	12.3	9U	SN	2	V	1141				DH
0235		11	1156	1157	1213	S15	W21	6668	06	9.9	17	1N	M 1.1				294	4.8	EFUZ
	HTPR	11	1156	1158	1225	S15	W20	6668	06	10.0	29	1N		C	1158		430	4.9	U
	RAMY	11	1157	1157	1204	S14	W22	6668	06	9.8	7	SF	M 1.1	3	E		36		F
	KAND	11	1157	1158	1210	S16	W20	6668	06	10.0	13	1B		P	1158		416	4.8	EZ
0236	HTPR	11	1351	1352	1405	N30	W25	6659	06	9.6	14	SF		C	1352		50	0.6	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks		
															Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)	
0237	HTPR	11	1505	1509	1515	N32	W23	6659	06	9.8	10	SF		C	1509	50	0.6	D	
0238	HTPR	11	1705	1709	1715	N32	W22	6659	06	10.0	10	SF		C	1709	80	1.0		
0239		11	1730	1730U	1738D	N30	W30	6659	06	9.4	8D	SF	M 1.1			34		FH	
	HOLL	11	1729E	1730U	1738D	N29	W31	6659	06	9.3	9D	SF		1 E		50		FH	
	SVTO	11	1730	1734U	1738D	N32	W29	6659	06	9.4	8D	SF	M 1.1	2 E		17			
0240		11	17312	17331	1751	S18	W14	6666	06	10.7	20	SF				103	1.7	F	
	HTPR	11	1731	1733	1744D	S20	W12	6666	06	10.8	13D	SF		C	1733	150	1.7		
	PALE	11	1733	1734	1751	S17	W17	6666	06	10.4	18	SF		3 E		56		F	
0241		11	1733	1735U	1738D	S19	W27	6668	06	9.7	5D	1N				85		F	
	SVTO	11	1733	1735U	1738D	S19	W27	6668	06	9.7	5D	SN		2 E		32			
	HOLL	11	1737E	1737U	1738D	S19	W27	6668	06	9.7	1D	1F		1 E		138		F	
0242		11	2005E	2017U	2325D	N28	W41	6659	06	8.6	200D	1B	M 5.3			178		UY	
	HOLL	11	2005E	2017U	2325D	N26	W42	6659	06	8.6	200D	1B	M 5.3	1 E		189		UY	
	PALE	11	2005E	2035U	2035D	N25	W40	6659	06	8.7	30D	1B		3 E		248			
	RAMY	11	2135E	2150U	2155D	N33	W41	6659	06	8.6	20D	SN		3 E		97		U	
		11	2128		2134	No Flare Patrol													
		11	2214		2222	No Flare Patrol													
		11	2257		2305	No Flare Patrol													
		11	2332		2346	No Flare Patrol													
0243	PALE	12	0223E	0223U	0251D	N20	W66	6658	06	7.0	28D	SF	C 9.9	3 E		39			
0244	YUNN	12	0335	0357U	0430	S13	W35	6668	06	9.5	55	SN		P	0357	31	0.4		
0245	YUNN	12	0340	0357U	0444	N37	W27	6659	06	10.0	64	SN		P	0357	16	0.2		
0246		12	0653*	07074	0731	N27	W31	6659	06	9.9	38	2N				431	5.9	EFITZ	
	HTPR	12	0653	0707	0750	N28	W34	6659	06	9.6	57	1B		C	0707	310	4.3	I	
	KANZ	12	0655	0707	0740	N26	W29	6659	06	10.0	45	1N		2 C					
	KAND	12	0655	0708	0727	N29	W30	6659	06	9.9	32	2B		P	0708	416	5.9	ETZ	
	YUNN	12	0659	0711	0726	N27	W29	6659	06	10.0	27	2N		C		786	10.4		
	PEKG	12	0700	0708	0727	N28	W33	6659	06	9.7	27	2N		P	0708	505	6.8	E	
	WATU	12	0702	0708	0731	N27	W29	6659	06	10.0	29	1N		C	0708	320	4.2	F	
	HURB	12	0704	0707	0721D	N26	W27	6659	06	10.2	17D	3B						E	
	ATHN	12	0705	0710	0720	N27	W39	6659	06	9.2	15	2N		3 V	0710	509	7.2		
	ABST	12	0729E	0729U	0735D	N28	W33	6659	06	9.7	6D	1N		P	0729	175	2.5	E	
0247		12	09092	09116	0921	N29	W39	6659	06	9.3	12	SN	C 5.2			62	1.1	DZ	
	ONDR	12	0909	0911U	0913	N29	W40	6659	06	9.2	4	SN		P	0911	46	0.7	D	
	KAND	12	0909	0911	0920	N30	W38	6659	06	9.4	11	SB		P	0911	62	0.9	DZ	
	HTPR	12	0909	0911	0925	N29	W40	6659	06	9.2	16	SN		C	0911	100	1.5		
	SVTO	12	0909	0917	0925	N27	W39	6659	06	9.3	16	SF	C 5.2	2 E		24			
	KANZ	12	0911	0911	0923	N28	W38	6659	06	9.4	12	SF		2 C					
	YUNN	12	0911	0915	0917D	N30	W38	6659	06	9.4	6D	SN		P		79	1.2		
0248	KANZ	12	0943	0943	0951	N30	W36	6659	06	9.6	8	SF		2 C					
0249		12	10132	10154	1029	N28	W35	6659	06	9.7	16	SN	C 4.3			48	0.8	EIZ	
	SVTO	12	1013	1015U	1032D	N27	W34	6659	06	9.8	19D	SF	C 4.3	2 E		22			
	HTPR	12	1013	1015	1035	N28	W36	6659	06	9.6	22	SN		C	1015	60	0.8	EI	
	KAND	12	1015	1017	1023	N28	W35	6659	06	9.7	8	SN		P	1017	62	0.9	EZ	
	KANZ	12	1015	1019	1027D	N27	W35	6659	06	9.7	12D	SF		2 C					
0250	KANZ	12	1041E	1041U	1053	S06	E23	6676	06	14.2	12D	SF		2 C					
0251		12	11223	1125	1153	N18	W76	6658	06	6.7	31	SN				96		D	
	HTPR	12	1122	1125	1155	N18	W78	6658	06	6.5	33	1F		C	1125	100			
	SVTO	12	1124	1126U	1155D	N18	W76	6658	06	6.7	31D	SF		4 E		83			
	KANZ	12	1125	1125	1149	N18	W73	6658	06	6.9	24	SF		2 C					
	KAND	12	1125	1125	1155	N17	W75	6658	06	6.8	30	SB		P	1125	104		D	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks		
								USAF Region					Mo	Day	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)
0252		12	13574	14012	1409	N34	W33	6659	06	9.9	12	SF			35	0.5	F	
	HTPR	12	1357	1403	1415	N37	W30	6659	06	10.2	18	SF		C	1403	40	0.5	F
	HOLL	12	1400E	1403U	1407D	N35	W29	6659	06	10.3	7D	SF	2	E		36		F
	KANZ	12	1401	1401	1405	N36	W31	6659	06	10.1	4	SF	2	C				
	SVTO	12	1401	1403	1407	N29	W41	6659	06	9.4	6	SF	3	E		28		
0253		12	1556	15561	1604	N12	W04	6671	06	12.4	8	SF				23		
	KANZ	12	1556	1556	1601	N12	W04	6671	06	12.4	5	SF	2	C				
	HOLL	12	1556	1557	1607	N11	W04	6671	06	12.4	11	SF	3	E		23		
0254		12	16012	16041	1621	N29	W41	6659	06	9.4	20	SF	C 4.0			16		F
	SVTO	12	1601	1604	1608	N28	W42	6659	06	9.4	7	SF		3	E	17		
	KANZ	12	1601	1605	1613	N29	W40	6659	06	9.5	12	SF		2	C			
	HOLL	12	1603	1604	1643	N29	W42	6659	06	9.4	40	SF	C 4.0	3	E	15		F
0255		12	1653*	1707*	1730	N29	W43	6659	06	9.3	37	SF	C 7.7			23		EF
	HOLL	12	1653	1707	1738	N29	W43	6659	06	9.3	45	SF	C 7.7	4	E	32		FE
	PALE	12	1707	1707	1724	N29	W43	6659	06	9.3	17	SF		3	E	16		F
	KANZ	12	1709	1709	1733	N28	W44	6659	06	9.3	24	SF		2	C			
	RAMY	12	1719	1719	1724	N30	W43	6659	06	9.3	5	SF		2	E	22		F
0256		12	17437	1745*	1836	N28	W40	6659	06	9.6	53	1N	M 1.4			129		EFHK
	RAMY	12	1743	1745	1749	N31	W43	6659	06	9.3	6	SF		3	E	22		
	HOLL	12	1743	1759	1859	N27	W41	6659	06	9.5	76	2B	M 1.4	3	E	251		FK
	HOLL	12	1743	1803	1859	N27	W41	6659	06	9.5	76	2N			E	185		K
	KANZ	12	1745	1759	1814D	N27	W37	6659	06	9.8	29D	1N		2	C			
	PALE	12	1750	1757	1813	N28	W42	6659	06	9.5	23	SF		3	E	82		FE
	RAMY	12	1750	1759	1858	N28	W39	6659	06	9.7	68	1F		3	E	103		F
0257		12	19371	19421	1950	S12	W44	6668	06	9.5	13	SN	C 5.3			42		F
	RAMY	12	1937	1942	1946	S11	W44	6668	06	9.5	9	SF		3	E	15		F
	HOLL	12	1938	1943	1953	S13	W44	6668	06	9.5	15	SN	C 5.3	3	E	69		F
0258		12	19444	1950	2016	S21	E00	6669	06	12.8	32	SF				36		F
	HOLL	12	1944	1950	2027	S21	W03	6669	06	12.6	43	SF		3	E	69		F
	RAMY	12	1948	1950	2006	S21	E01	6669	06	12.9	18	SF		3	E	11		
	PALE	12	1954E	1954U	2028D	S22	E02	6669	06	13.0	34D	SF		3	E	29		F
0259	HOLL	12	2020	2020	2043	N29	W45	6659	06	9.3	23	SF	C 5.3	3	E	20		
0260		12	21142	2117	2149	N30	W46	6659	06	9.3	35	SF	M 1.9			46		EF
	HOLL	12	2114	2117	2149	N28	W46	6659	06	9.3	35	SN	M 1.9	3	E	50		FE
	PALE	12	2116	2117	2151	N29	W46	6659	06	9.3	35	SF		3	E	45		F
	RAMY	12	2123E	2123U	2148	N32	W47	6659	06	9.2	25D	SF		1	E	42		F
0261		12	2345	2351	2415	N30	W48	6659	06	9.2	30	1N				130	3.0	EF
	PALE	12	2313E	2348U	2428D	N29	W46	6659	06	9.4	75D	SN		3	E	92		FE
	PEKG	12	2345	2351	2415	N30	W49	6659	06	9.1	30	1N		P	2351	168	3.0	E
0262	PALE	13	0325	0326	0336	N30	W48	6659	06	9.4	11	SF	C 9.6	3	E	18		F
0263		13	0420	0430*	0626	N29	W50	6659	06	9.3	126	1F	M 1.5			106	2.0	BEK
	SVTO	13	0420	0430	0656	N28	W50	6659	06	9.3	156	1F			E	83		K
	SVTO	13	0420	0540	0656	N28	W50	6659	06	9.3	156	1F	M 1.5	3	E	109		
	HTPR	13	0520E		0525	N30	W52	6659	06	9.1	5D	SF		C	0520	100	1.8	B
	ABST	13	0541E	0543U	0554D	N29	W48	6659	06	9.5	13D	1N		P	0543	131	2.3	E
0264	SVTO	13	0607	0607	0614	S03	E09	6676	06	13.9	7	SF		3	E	11		
0265		13	06242	06262	0632	S12	E60	6682	06	17.8	8	SF				38		
	SVTO	13	0624	0628	0634	S12	E61	6682	06	17.9	10	SF		3	E	38		
	KANZ	13	0626	0626	0630	S13	E60	6682	06	17.8	4	SF		2	C			
0266		13	08431	08458	0859	N30	W54	6659	06	9.1	16	SF	C 8.5			74	2.4	EHKL
	KHAR	13	0835E	0845U	0900	N30	W56	6659	06	8.9	25D	1N		2	V	0845		EL
	HTPR	13	0843	0845	0900	N30	W52	6659	06	9.3	17	1F		C	0845	120	2.4	
	KANZ	13	0843	0847	0859	N30	W52	6659	06	9.3	16	SF		2	C			
	SVTO	13	0844	0845	0859	N29	W54	6659	06	9.1	15	SN		E		78		K
	SVTO	13	0844	0853	0859	N29	W54	6659	06	9.1	15	SF	C 8.5	3	E	25		H

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur Day	Imp Opt	Xray	Imp M	Obs See	Type	Area Measurement			Remarks
					Lat	CMD	Region								Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0267		13 09254	09346	1008	N28	W50	6659	06	9.5	43	SN	M 1.8			60	1.6	E	
	HTPR	13 0925	0940	0955	N30	W52	6659	06	9.3	30	SN		C	0940	80	1.6		
	HURB	13 0927E	0934	0958D	N26	W45	6659	06	9.9	31D	1N						E	
	KANZ	13 0927	0937	1013	N29	W52	6659	06	9.3	46	SF		2	C				
	SVTO	13 0929	0939	1016	N28	W52	6659	06	9.3	47	SF	M 1.8	3	E	39			
0268	KHAR	13 1015	1016U	1030D	N31	W56	6659	06	9.0	15D	SN		2	V	1016		H	
0269		13 11132	11166	1145	N29	W52	6659	06	9.4	32	1F				92	2.8	E	
	HTPR	13 1113	1116	1150	N30	W52	6659	06	9.4	37	1F		C	1116	140	2.8		
	KANZ	13 1114	1122	1140	N30	W53	6659	06	9.3	26	SF		2	C				
	HURB	13 1115E	1117	1131D	N26	W46	6659	06	9.9	16D	1N						E	
	SVTO	13 1115	1121	1145	N30	W56	6659	06	9.1	30	SF		3	E	45			
0270		13 15211	1523	1530	S05	W69	6674	06	8.5	9	SN	C 4.3			34			
	SVTO	13 1521	1523	1529	S02	W70	6674	06	8.4	8	SF	C 4.3	3	E	34			
	HTPR	13 1522		1530	S08	W68	6674	06	8.5	8	SN			C				
0271		13 17112	17151	1726	N31	W55	6659	06	9.4	15	SF				46		FH	
	SVTO	13 1711	1716	1724	N31	W56	6659	06	9.3	13	SF		3	E	58			
	PALE	13 1713	1715	1728	N31	W54	6659	06	9.4	15	SF		3	E	34		FH	
0272		13 1740*	18016	1828	N31	W55	6659	06	9.4	48	1N	M 5.4			130		F	
	PALE	13 1740	1803	1826	N31	W55	6659	06	9.4	46	1F	M 5.4	3	E	141		F	
	RAMY	13 1741	1801	1832	N32	W57	6659	06	9.2	51	SF		3	E	98		F	
	HOLL	13 1757	1807	1825	N30	W53	6659	06	9.6	28	1B		2	E	151		F	
0273		13 18053	18082	1813	S12	W57	6668	06	9.4	8	SF				24			
	RAMY	13 1805	1808	1811	S11	W57	6668	06	9.5	6	SF		3	E	28			
	HOLL	13 1808	1810	1815	S12	W57	6668	06	9.5	7	SF		3	E	20			
0274		13 2010	20101	2016	N30	W55	6659	06	9.5	6	SF	C 4.4			28		EF	
	HOLL	13 2010	2010	2031D	N30	W53	6659	06	9.7	21D	SF	C 4.4	3	E	25		FE	
	RAMY	13 2010	2011	2016	N31	W57	6659	06	9.3	6	SF		3	E	31		F	
0275		13 2139*	2207	2224	N31	W58	6659	06	9.3	45	1F	M 2.2			178		EF	
	HOLL	13 2139	2203U	2210D	N31	W57	6659	06	9.4	31D	SF		2	E	92		FE	
	PALE	13 2159	2207	2224	N31	W60	6659	06	9.2	25	2F	M 2.2	3	E	263			
0276	HOLL	13 2220	2221	2234	S14	W57	6668	06	9.6	14	SF		3	E	38		F	
0277	HOLL	13 2337		2451D	N30	W59	6659	06	9.3	74D	1B	M 1.6	3	E	108		F	
0278		14 0124	0137*	0211	N30	W63	6659	06	9.1	47	2N	M 7.3			261	2.3	DEFITU	
	PALE	14 0124	0137	0245	N30	W64	6659	06	9.0	81	2N	M 7.3	3	E	412		FE	
	WATU	14 0137E	0137	0150	N30	W61	6659	06	9.3	13D	2N		P	0137	300		F	
	VORO	14 0140E		0156D	N29	W63	6659	06	9.1	16D	2F		1	C			EIUT	
	URUM	14 0141E	0143U	0157	N30	W64	6659	06	9.0	16D	1N		C		241		E	
	VORO	14 0223E	0223	0230D	N31	W62	6659	06	9.2	7D	1N		1	C	0223	90	2.3	DIT
0279		14 0345	0350	0402	N31	W63	6659	06	9.2	17	1N	C 4.7			134		EF	
	SVTO	14 0345E	0348U	0402	N30	W61	6659	06	9.3	17D	SF	C 4.7	2	E	92		F	
	URUM	14 0345	0350	0355D	N32	W65	6659	06	9.0	10D	1N		C	177		E		
0280		14 0416	0424	0447	N31	W62	6659	06	9.3	31	SN	M 1.3			85		EF	
	URUM	14 0416	0424	0440	N31	W63	6659	06	9.2	24	SN		C		80		E	
	PALE	14 0421E	0430U	0447	N30	W63	6659	06	9.2	26D	SN		1	E	85		F	
	SVTO	14 0431E	0436U	0454	N32	W61	6659	06	9.3	23D	SF	M 1.3	3	E	90		F	
0281		14 05212	05241	0536	N31	W63	6659	06	9.2	15	1N				130	4.1	DV	
	URUM	14 0521	0525	0534	N31	W63	6659	06	9.2	13	1F		C		113		D	
	ABST	14 0523	0524	0537	N31	W69	6659	06	8.8	14	1N		C	0524	87		DV	
	ATHN	14 0532E	0533U	0536D	N31	W58	6659	06	9.6	4D	1N		2	V	0533	191	4.1	
0282		14 06141	0619*	0636	S12	W24	6675	06	12.4	22	SN				84	1.0	D	
	ABST	14 0614	0619	0626	S13	W22	6675	06	12.6	12	SN		C	0619	87	1.1	D	
	HTPR	14 0615	0630	0645	S12	W26	6675	06	12.3	30	SF		C	0630	80	0.9		

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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		Remarks
						Region	Cmd								Apparent (10-6 Disk)	Corr (Sq Deg)	
0283		14	06251	06281	0635	N32 W65	6659	06	9.1	10	1N				87		D
	HTPR	14	0625	0629	0635	N32 W64	6659	06	9.2	10	SN		C				
	ABST	14	0626	0628	0631D	N32 W66	6659	06	9.0	5D	1N		C	0628	87		D
0284	ABST	14	0715	0719	0725	N29 W68	6659	06	9.0	10	1F		C	0719	87		E
0285	LEAR	14	0743	0746	0804	N30 W63	6659	06	9.4	21	SF	3	E		76		
0286	KHAR	14	0827	0830U	0836	N31 W68	6659	06	9.0	9	SN	2	V	0830			DLT
0287	KHAR	14	0947	0949	0956	N33 W64	6659	06	9.3	9	SN	2	V	0949			LT
0288	KHAR	14	1010	1011	1037U	S11 W28	6675	06	12.3	27U	SF	2	P	1015	80	1.0	EH
0289	KHAR	14	1039		1050	N31 W68	6659	06	9.1	11	SN	2	V	1043			DLT
0290		14	10542	10571	1109	N29 W67	6659	06	9.2	15	SN C 9.7				66		DLTV
	KHAR	14	1054	1057	1110U	N30 W68	6659	06	9.1	16U	SB	2	V	1057			DLVT
	KAND	14	1055	1057	1113	N30 W68	6659	06	9.1	18	SB		P	1057	83		D
	HTPR	14	1055	1058	1110	N28 W67	6659	06	9.2	15	SN		C				
	SVTO	14	1056	1057	1103	N28 W66	6659	06	9.3	7	SF C 9.7	3	E		48		
0291		14	11073	1115	1150	S15 W64	6668	06	9.6	43	SN				42	1.0	D
	KAND	14	1107	1115	1150	S14 W62	6668	06	9.8	43	SN		P	1115	42	1.0	D
	KHAR	14	1110		1130D	S16 W66	6668	06	9.4	20D	SF	2	P	1114			D
0292	KHAR	14	1110		1121	S11 W28	6675	06	12.3	11	SN	2	P	1117	80	1.0	H
0293	HOLL	14	1309	1339	1403	S12 W30	6675	06	12.3	54	SF	3	E		95		
0294	HOLL	14	1326	1330	1354	S21 E16	6673	06	15.8	28	SF	3	E		33		
0295		14	1326*	1341	1352	S12 W67	6668	06	9.5	26	SF				57		E
	HOLL	14	1326	1341	1404	S12 W68	6668	06	9.4	38	SN	3	E		83		E
	RAMY	14	1339	1341	1345	S11 W67	6668	06	9.5	6	SF	3	E		45		
	HTPR	14	1339	1341	1350	S12 W66	6668	06	9.6	11	SF		C				
	SVTO	14	1340	1341	1351	S13 W68	6668	06	9.4	11	SF	3	E		43		
0296		14	1338*	1343	1354	N31 W63	6659	06	9.6	16	SF C 5.9				44		F
	HOLL	14	1338	1343	1355	N30 W63	6659	06	9.6	17	SF C 5.9	3	E		64		F
	RAMY	14	1342	1343	1346	N28 W60	6659	06	9.9	4	SF	3	E		23		F
	HTPR	14	1350		1400	N36 W65	6659	06	9.3	10	SF		C				
0297		14	1412*	1420*	1547	S12 W30	6675	06	12.3	95	SF				46		FK
	HOLL	14	1412	1420	1548	S12 W30	6675	06	12.3	96	SF	3	E		55		F
	HOLL	14	1412	1536	1548	S12 W30	6675	06	12.3	96	SF		E		60		K
	SVTO	14	1529	1536	1546	S13 W31	6675	06	12.3	17	SF	3	E		23		
0298		14	1412*	14338	1505	S22 E16	6673	06	15.8	53	SF				63	1.0	F
	HOLL	14	1412	1433	1541	S22 E16	6673	06	15.8	89	SF	3	E		76		
	SVTO	14	1434	1440	1458	S22 E16	6673	06	15.8	24	SF	3	E		68		F
	HTPR	14	1435	1440	1455	S22 E17	6673	06	15.9	20	SF		C	1440	90	1.0	F
	RAMY	14	1437	1441	1446	S22 E15	6673	06	15.8	9	SF	3	E		19		F
0299	PALE	14	1814E	1823	1845	S13 W33	6675	06	12.3	31D	SF	3	E		20		F
0300	PALE	14	1914	1914	1919	N28 W65	6659	06	9.7	5	SF M 1.6	4	E		32		
0301	HOLL	14	2120	2121	2126	N31 W71	6659	06	9.3	6	SF C 4.1	3	E		17		
0302	HOLL	14	2231	2235	2238	N32 W73	6659	06	9.1	7	SF C 5.7	3	E		37		F
0303	HOLL	14	2311	2317	2322	N31 W72	6659	06	9.3	11	SF	3	E		68		F
0304	HOLL	14	2327	2337	2346	N32 W74	6659	06	9.1	19	SF C 4.0	3	E		61		F
0305	HOLL	15	0031	0034	0100	N33 W69	6659	06	9.5	29	SF C 6.0	3	E		72		EF
0306	PALE	15	0157	0158	0203	N30 W82	6659	06	8.6	6	SF C 3.3	3	E		26		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0307		15	02576	03051	0325	S11	W37	6675	06	12.3	28	SF	C	4.5			86	1.5	EF	
	URUM	15	0257	0305	0325	S13	W38	6675	06	12.2	28	1F			C		161	2.2	E	
	PALE	15	0259	0301U	0321D	S13	W37	6675	06	12.3	22D	SF	C	4.5	3	E	36		F	
	WATU	15	0303	0306	0306D	S07	W37	6675	06	12.3	3D	SF			P	0306	60	0.8	F	
0308		15	0405*	0410*	0544	N31	W69	6659	06	9.7	99	SN	C	9.7			79		BDEFK	
	SVTO	15	0402E	0450	0632	N31	W64	6659	06	10.1	150D	SF			E		62		K	
	SVTO	15	0402E	0544	0632	N31	W64	6659	06	10.1	150D	SF	C	9.7	3	E	55		F	
	URUM	15	0405	0410	0426	N33	W64	6659	06	10.1	21	SN			C		48		E	
	LEAR	15	0411E	0411U	0535D	N31	W63	6659	06	10.2	84D	1N	C	6.6	3	E	100			
	TACH	15	0431E		0506	N31	W69	6659	06	9.7	35D	1B			2	C	0431	178		BE
	TACH	15	0543E	0543	0545D	N31	W69	6659	06	9.8	2D	SB			2	C	0543	66		D
	HTPR	15	0544		0555	N30	W80	6659	06	8.9	11	SN			C					
	URUM	15	0544	0547	0555	N30	W78	6659	06	9.1	11	SF			C		48		E	
0309		15	05305	0533	0543	N08	E83	6681	06	21.4	13	SN					60		A	
	HTPR	15	0500E		0530	N08	E90	6681	06	21.9	30D	SN			C				A	
	WATU	15	0530	0533	0540	N08	E68	6681	06	20.3	10	SF			C	0533	60			
	HTPR	15	0535		0600	N09	E90	6681	06	22.0	25	SN			C				A	
0310		15	0633*	0820*	1011	N36	W70	6659	06	9.6	218	3B	X12.0				436	16.5	AEFHIJKM	
	SVTO	15	0633	0831	1117	N33	W69	6659	06	9.8	284	3B	X12.0	5	E				MU	
	ATHN	15	0800E	0825U	0930D	N37	W70	6659	06	9.7	90D	3B		3	V	0825	763	20.1		
	HTPR	15	0805	0820	1030	N38	W75	6659	06	9.3	145	2B			C				AH	
	ISTA	15	0808		0902	N36	W69	6659	06	9.8	54	4B			P				FIJKMVW	
	ONDR	15	0815E	0816U	0859D	N33	W67	6659	06	10.0	44D	3B			P	0816	416	12.9	FHIKTY	
	KAND	15	0832E		0954	N35	W68	6659	06	9.9	82D	3B			P	0836	166		EZ	
	KHAR	15	0942E		1105U	N39	W74	6659	06	9.4	83U	2N		1	P	0945	400		AF	
0311		15	1030		1040	N06	E80	6681	06	21.4	10	SF							DH	
	HTPR	15	1030		1040	N05	E80	6681	06	21.4	10	SF			C					
	KHAR	15	1033E		1036U	N08	E80	6681	06	21.4	3U	SF		2	V	1033			DH	
0312		15	10451	1102	1113	S22	E08	6673	06	16.1	28	SF					25		EF	
	SVTO	15	1045	1102	1113	S22	E06	6673	06	15.9	28	SF		4	E		25		F	
	KHAR	15	1046		1100U	S23	E09	6673	06	16.1	14U	SF		2	V	1046			E	
0313	KHAR	15	1125	1125U	1130	S14	W85	6668	06	9.0	5	SN		2	P	1125			H	
0314		15	13281	1330	1334	N09	E79	6681	06	21.5	6	SF					29			
	HOLL	15	1328	1330	1334	N09	E80	6681	06	21.6	6	SF		3	E		35			
	RAMY	15	1329	1330	1333	N09	E81	6681	06	21.6	4	SF		3	E		20			
	SVTO	15	1329	1330	1336	N08	E77	6681	06	21.3	7	SF		4	E		33			
0315		15	1419	1420*	1436	N08	E77	6681	06	21.4	17	SF					24			
	HOLL	15	1419	1420	1428	N08	E77	6681	06	21.4	9	SF		3	E		16			
	SVTO	15	1419	1433	1444	N08	E77	6681	06	21.4	25	SF		4	E		33			
0316		15	15101	15112	1529	S11	E33	6682	06	18.1	19	SF					19		F	
	SVTO	15	1510	1512	1531	S13	E31	6682	06	18.0	21	SF		4	E		23		F	
	HOLL	15	1510	1513	1524	S10	E35	6682	06	18.3	14	SF		3	E		18		F	
	KANZ	15	1511	1511	1531	S10	E34	6682	06	18.2	20	SF		2	C					
	RAMY	15	1511	1512	1530	S12	E32	6682	06	18.0	19	SF		3	E		15			
0317		15	1853	1853	1859	N32	W77	6659	06	9.7	6	SF	C	5.5			37			
	HOLL	15	1853	1853	1857	N31	W76	6659	06	9.8	4	SF		3	E		25			
	RAMY	15	1853	1853	1901	N33	W76	6659	06	9.8	8	SF	C	5.5	3	E	68			
	PALE	15	1853	1853	1913D	N33	W79	6659	06	9.5	20D	SF		3	E		18			
0318		15	2052	2057	2129	S14	W82	6668	06	9.7	37	1N	M	5.5			227		FH	
	HOLL	15	2052	2057	2139	S14	W80	6668	06	9.8	47	2B	M	5.5	3	E	394		FH	
	PALE	15	2058E	2058U	2119	S14	W84	6668	06	9.5	21D	SF		3	E		60			
0319		16	00065	00095	0038	S12	W49	6675	06	12.3	32	1F					94	2.3	EFJT	
	PALE	16	0006	0009	0024	S12	W49	6675	06	12.3	18	SF		3	E		54		F	
	HOLL	16	0006	0012	0052	S13	W49	6675	06	12.3	46	SF		3	E		76		F	
	VORO	16	0007	0014	0046	S12	W49	6675	06	12.3	39	1F		2	C	0014	143	2.3	EJT	
	LEAR	16	0011	0012	0032	S12	W50	6675	06	12.2	21	1F		3	E		102		F	

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/ USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks		
					Lat	Cmd	Region											
0320		16 0508*	0509*	0545	N07	E69	6681	06	21.4	37	SN	C 3.6		102		DE		
	URUM	16 0507E	0511	0515	N07	E70	6681	06	21.4	8D	SN		C	32		D		
	SVTO	16 0508	0509	0553	N09	E68	6681	06	21.3	45	SF	C 3.6	3	41				
	PEKG	16 0525	0535	0545	N08	E72	6681	06	21.6	20	1B		P	0535	210	D		
	URUM	16 0532	0536	0545	N06	E69	6681	06	21.4	13	SN		C	48		E		
	LEAR	16 0535	0535	0609	N07	E66	6681	06	21.2	34	1F	C 7.6	3	180				
0321	SVTO	16 0542	0543	0556	S13	W52	6675	06	12.3	14	SF		3	E	14			
0322	KANZ	16 0645	0649	0657	S10	E25	6682	06	18.1	12	SF		2	C				
0323		16 07272	07292	0750	S11	E23	6682	06	18.0	23	SF			21		F		
	SVTO	16 0727	0731	0754	S11	E24	6682	06	18.1	27	SF		4	E	21		F	
	KANZ	16 0729	0729	0745	S11	E22	6682	06	18.0	16	SF		2	C				
0324		16 0810*	08214	0830	N08	E66	6681	06	21.3	20	SF			18		H		
	SVTO	16 0810	0821	0829	N09	E67	6681	06	21.4	19	SF		4	E	18		H	
	KHAR	16 0820E		0834	N08	E66	6681	06	21.3	14D	SF		2	V	0820		H	
	KANZ	16 0825	0825	0828	N08	E66	6681	06	21.3	3	SF		2	C				
0325	KHAR	16 0820E		0845U	N32	W85	6659	06	9.6	25U	1N		2	V			HT	
0326	KHAR	16 0857		0914	N08	E66	6681	06	21.3	17	SF		2	V	0907			
0327	KHAR	16 0925		0938	N32	W80	6659	06	10.0	13	SN		2	V	0928		T	
0328		16 0958	09582	1006	N08	E66	6681	06	21.4	8	SF	C 2.6		38	1.5	H		
	SVTO	16 0958	0958	1006	N08	E65	6681	06	21.3	8	SF	C 2.6	4	E	15			
	KHAR	16 0958	1000	1007	N08	E66	6681	06	21.4	9	SF		2	P	1003	60	1.5	H
0329	SVTO	16 1043	1047	1058	N33	W87	6659	06	9.5	15	SF		4	E	13			
0330	SVTO	16 1048	1056	1113	S14	E14	6680	06	17.5	25	SF		3	E	11			
0331	KHAR	16 1140	1149	1200	N32	W85	6659	06	9.7	20	SN		2	V	1149		HT	
0332	SVTO	16 1211	1211	1217	S18	W90	6668	06	9.6	6	SF	C 3.0	3	E	42			
0333	RAMY	16 1228	1228	1236	N07	E63	6681	06	21.2	8	SF	C 3.5	3	E	24			
0334	SVTO	16 1326	1330	1336	N32	W90	6659	06	9.4	10	SF		3	E	29			
0335		16 15181	15239	1536	N08	E62	6681	06	21.3	18	SF			20		F		
	SVTO	16 1518	1532	1539	N08	E61	6681	06	21.2	21	SF		3	E	14		F	
	HOLL	16 1519	1523	1532	N07	E62	6681	06	21.3	13	SF		3	E	27		F	
0336		16 16291	16312	1642	S12	W58	6675	06	12.3	13	SF			28		F		
	HOLL	16 1629	1633	1644	S12	W59	6675	06	12.2	15	SF		3	E	32		F	
	SVTO	16 1630	1631	1641	S13	W58	6675	06	12.3	11	SF		3	E	24		F	
0337		16 17431	17451	1800	N12	W58	6671	06	12.4	17	SF	C 3.3		48		EF		
	HOLL	16 1743	1745	1804	N12	W59	6671	06	12.3	21	SF		3	E	52		FE	
	RAMY	16 1744	1746	1755	N13	W58	6671	06	12.4	11	SF	C 3.3	3	E	45		F	
0338	HOLL	16 2054	2056	2100	N33	W90	6659	06	9.7	6	SF		3	E	14			
		16 2218		2224	No Flare Patrol													
0339	PALE	16 2236E	2236U	2246D	N12	W60	6671	06	12.4	10D	SF		3	E	85			
0340	LEAR	17 0018	0018	0028	N08	E55	6681	06	21.1	10	SF		3	E	39			
0341		17 01324	01453	0202	S12	W64	6675	06	12.2	30	SF	M 1.4		36				
	LEAR	17 0132	0148	0205	S13	W63	6675	06	12.3	33	SF	M 1.4	3	E	40			
	PALE	17 0136	0145	0158	S11	W64	6675	06	12.2	22	SF		3	E	32			
0342	LEAR	17 0226	0226	0250	N09	E58	6681	06	21.4	24	SF		3	E	31			
0343	PALE	17 0412	0412	0420D	N33	W90	6659	06	10.0	8D	SF	M 5.2	2	E	59			

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0344		17 0555*	0557*	0605	S14	W87	6666	06	10.7	10	SF C 4.1			49		AD
	ABST	17 0555	0557	0600	S14	W90	6666	06	10.4	5	1N		C 0557	87		AD
	SVTO	17 0556	0557	0600	S15	W90	6666	06	10.4	4	SF C 4.1	4	E	33		
	LEAR	17 0607	0609	0615	S12	W80	6666	06	11.2	8	SF	3	E	28		
0345	LEAR	17 0639	0642	0721	N09	E55	6681	06	21.4	42	SF	3	E	25		
0346	SVTO	17 0827	0828	0839	N35	W89	6659	06	10.2	12	SF M 4.0	4	E	14		
0347		17 0831E	0831*	0953U	N09	W66	6671	06	12.4	82U	1N			130		HT
	LEAR	17 0831E	0831	0930D	N12	W65	6671	06	12.4	59D	1F	3	E	130		T
	HURB	17 0836E	0845	0910D	N05	W65	6671	06	12.5	34D	2N					
	KHAR	17 0905E	0905	0953U	N11	W68	6671	06	12.3	48U	SN	2	V	0905		HT
0348	KHAR	17 0909	0911	0923	N12	E59	6687	06	21.8	14	SF	2	P	0911		E
0349	KHAR	17 0915	0920U	0948	S23	W80	6666	06	11.2	33	SN	2	V	0920		D
0350	KHAR	17 1010		1018	S23	W80	6666	06	11.2	8	SF	2	V	1010		D
0351	KHAR	17 1045		1052	S22	W90	6666	06	10.5	7	SF	2	V			D
0352		17 1047*	1050*	1116	N11	W67	6671	06	12.4	29	SN					DT
	KHAR	17 1047	1050	1110	N11	W67	6671	06	12.4	23	SN	2	V	1050		DT
	KHAR	17 1111	1112	1122	N11	W67	6671	06	12.4	11	SN	2	V	1112		DT
0353	RAMY	17 1207	1209	1213	N13	W68	6671	06	12.4	6	SF	3	E	21		
0354		17 1229	1231	1246	N12	W68	6671	06	12.4	17	SF			44		
	HOLL	17 1228E	1230U	1250D	N11	W67	6671	06	12.5	22D	SF	1	E	36		
	RAMY	17 1229	1231	1246	N13	W68	6671	06	12.4	17	SF	3	E	52		
0355	RAMY	17 1259	1300	1307	N13	W69	6671	06	12.3	8	SF	3	E	21		
0356	RAMY	17 1325	1325	1332	N13	W69	6671	06	12.3	7	SF	3	E	26		
0357		17 1425I	14294	1435	N12	W70	6671	06	12.3	10	SF			27		F
	HOLL	17 1425	1429	1434	N12	W70	6671	06	12.3	9	SF	3	E	29		
	RAMY	17 1426	1433	1436	N13	W69	6671	06	12.4	10	SF	3	E	25		F
0358		17 1749	1803*	1837	N12	W72	6671	06	12.3	48	SN			42		FK
	HOLL	17 1749	1803	1837	N12	W72	6671	06	12.3	48	SF	3	E	55		F
	HOLL	17 1749	1820	1837	N12	W72	6671	06	12.3	48	SN		E	30		K
0359	RAMY	17 1858	1858	1904	N13	W70	6671	06	12.5	6	SF	3	E	22		
0360	HOLL	17 1927	1929	1944	S09	W59	6672B	06	13.4	17	SF	3	E	15		
0361	HOLL	17 1945	1947	1956	N12	W72	6671	06	12.4	11	SN C 5.5	3	E	52		F
0362	HOLL	17 2329	2330	2335	N13	W75	6671	06	12.3	6	SN	3	E	70		E
0363	HOLL	18 0049	0051	0102	S16	W32	6683	06	15.6	13	SF	3	E	21		F
0364		18 0129	0135I	0144	N12	W79	6671	06	12.1	15	1F			66		DJ
	WATU	18 0129	0136	0144	N12	W78	6671	06	12.2	15	1F		C 0136	50		
	VORO	18 0135U	0135	0141D	N12	W80	6671	06	12.0	6U	1F	1	C 0135	81		DJ
0365	TACH	18 0301E	0314	0323	N12	W80	6671	06	12.1	22D	SB	2	C 0314	76		D
0366	TACH	18 0340	0340	0346	N12	W80	6671	06	12.1	6	SB	2	C 0340	46		DZ
0367	WATU	18 0436	0438	0445	N09	W28	6673A	06	16.1	9	SF		C 0438	30	0.4	
0368	PALE	18 0437	0438	0447	N12	W90		06	11.4	10	SF	3	E	65		
0369	HTPR	18 0600		0630	N13	W85	6671	06	11.8	30	SN		C			AT
0370	HTPR	18 0655		0800	N13	W85	6671	06	11.9	65	SF		C			AT

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement Time (UT) (10-6 Disk)	Corr (Sq Deg)	Remarks
0371	SVTO	18 0810	0815	0830	S14	W01	6682	06 18.3	20	SF	3 E		32	F
0372		18 0815*	0834*	0902	N11	W81	6671	06 12.2	47	SN C 2.0			70	ADKT
	HTPR	18 0815		0915	N13	W85	6671	06 11.9	60	SN	C			AT
	LEAR	18 0832	0838	0911	N11	W78	6671	06 12.5	39	1N	E		91	K
	LEAR	18 0832	0845	0911	N11	W78	6671	06 12.5	39	1F C 2.0	3 E		100	
	KHAR	18 0833	0834	0848	N12	W80	6671	06 12.3	15	SN	2 P	0839	80	D
	SVTO	18 0833	0840	0854	N09	W84	6671	06 12.0	21	SN	E		36	K
	SVTO	18 0833	0847	0854	N09	W84	6671	06 12.0	21	SF	3 E		42	
	KANZ	18 0853E		0909D	N11	W76	6671	06 12.6	16D	1F	2 C			
0373	KHAR	18 0909	0911	0916	S12	E02	6682	06 18.5	7	SF	2 V	0911		E
0374		18 09507	10003	1017	N12	W83	6671	06 12.1	27	SF C 3.3			52	ADT
	HTPR	18 0950		1030	N13	W85	6671	06 12.0	40	SF	C			AT
	SVTO	18 0957	1000	1010	N10	W85	6671	06 12.0	13	SF C 3.3	3 E		52	
	KHAR	18 0958E	1003	1010	N12	W80	6671	06 12.4	12D	SN	2 V	0903		D
0375	SVTO	18 1118	1126	1136	N10	W85	6671	06 12.1	18	SF	3 E		27	F
0376		18 14078	14151	1428	S13	W04	6682	06 18.3	21	SF			18	F
	SVTO	18 1407	1416	1432	S13	W04	6682	06 18.3	25	SF	3 E		19	F
	KANZ	18 1409	1416	1416D	S12	W05	6682	06 18.2	7D	SF	2 C			
	HOLL	18 1415	1415	1424	S13	W04	6682	06 18.3	9	SF	3 E		16	F
0377		18 14483	1452	1458	S24	W76		06 12.7	10	SN			15	
	HTPR	18 1448		1500	S23	W75		06 12.8	12	SN	C			
	SVTO	18 1451	1452	1455	S26	W77		06 12.6	4	SF	3 E		15	
0378	HTPR	18 1647		1657	N13	W85	6671	06 12.3	10	SF	C			
0379	PALE	18 1654	1703	1725	N13	E36	6681	06 21.4	31	SF	3 E		28	F
		18 1915		1934	No Flare Patrol									
		18 1940		2018	No Flare Patrol									
		18 2024		2114	No Flare Patrol									
0380	HOLL	18 2115E	2117	2136	S15	W29	6677	06 16.7	21D	SF	3 E		29	
0381	HOLL	18 2133	2140	2216	N10	E32	6681	06 21.3	43	SF	3 E		32	F
0382		18 22328	22412	2308	N08	E30	6681	06 21.2	36	1N C 4.7			152	2.4
	HOLL	18 2232	2241	2316	N08	E30	6681	06 21.2	44	SN C 4.7	3 E		99	FE
	VORO	18 2240	2243	2301	N08	E30	6681	06 21.2	21	1N	1 C	2243	206	2.4
0383	HOLL	18 2311	2311	2318	S13	W12	6682	06 18.1	7	SF	3 E		11	
0384	HOLL	19 0011	0012	0021	N12	W88	6671	06 12.4	10	SF	3 E		34	
0385		19 00162	00184	0035	S13	W11	6682	06 18.2	19	SF C 6.7			25	F
	HOLL	19 0016	0018	0041	S13	W10	6682	06 18.2	25	SF C 6.7	3 E		28	F
	LEAR	19 0018	0022	0029	S13	W12	6682	06 18.1	11	SF	1 E		22	F
0386	HOLL	19 0028	0043	0134	S17	E66	6686	06 24.0	66	SF	3 E		23	
0387	HOLL	19 0041	0046	0123	S14	W25	6680	06 17.1	42	SF	3 E		43	
0388	HOLL	19 0041	0047	0103	S13	W11	6682	06 18.2	22	SF	3 E		11	
0389	LEAR	19 0254	0300	0323	S16	E66	6686	06 24.1	29	SF C 1.6	3 E		71	
0390		19 0518	05191	0526	S16	E65	6686	06 24.1	8	1B			106	2.1
	ABST	19 0518	0519	0527	S17	E64	6686	06 24.1	9	1N	C	0519	87	2.1
	PEKG	19 0520E	0520	0526	S16	E66	6686	06 24.2	6D	1B	P	0520	126	D
0391		19 12342	12372	1254	N08	E22	6681	06 21.2	20	SN C 2.9			50	FH
	HOLL	19 1234	1237	1258	N08	E21	6681	06 21.1	24	SN	2 E		49	FH
	SVTO	19 1236	1239	1249	N09	E22	6681	06 21.2	13	SF C 2.9	3 E		52	H
		19 1610		1612	No Flare Patrol									

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Grp #	Sta	Start Day	Max (UT)	End (UT)	NOAA/ USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
					Lat	CMD	Region							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0392	HOLL	19 1637E	1643U	1719	N10	E26	6681	06 21.6	42D	SF	2	E		71		F	
0393	HOLL	19 1637E	1643U	1705	S16	E56	6686	06 23.9	28D	SF	2	E		34			
0394		19 1713*	1716*	1809	S16	E57	6686	06 24.0	56	SF				32		FK	
	HOLL	19 1713	1716	1810	S16	E57	6686	06 24.0	57	SF		E		35		K	
	HOLL	19 1713	1757	1810	S16	E57	6686	06 24.0	57	SF	3	E		35			
	PALE	19 1756	1757	1807	S17	E58	6686	06 24.1	11	SF	4	E		25		F	
0395		19 18001	18051	1820	N08	E19	6681	06 21.2	20	SN C 2.5				76		EF	
	HOLL	19 1800	1806	1821	N08	E19	6681	06 21.2	21	SN	3	E		94		FE	
	PALE	19 1801	1805	1819	N08	E19	6681	06 21.2	18	SF C 2.5	4	E		57		F	
0396		19 18221	18251	1856	S14	W35	6680	06 17.1	34	SN C 3.1				74		EF	
	HOLL	19 1822	1826	1856	S14	W35	6680	06 17.1	34	SN	3	E		99		FE	
	PALE	19 1823	1825	1857	S14	W35	6680	06 17.1	34	SF C 3.1	4	E		48		F	
0397		19 1832	18353	1845	S16	E58	6686	06 24.2	13	SF				20		F	
	HOLL	19 1832	1835	1845	S16	E57	6686	06 24.1	13	SF	3	E		16		F	
	PALE	19 1832	1838	1845	S17	E58	6686	06 24.2	13	SF	4	E		23			
0398		19 18401	1842	1851	S27	E50	6688	06 23.7	11	SF				22		F	
	HOLL	19 1840	1842	1849	S28	E50	6688	06 23.7	9	SF	3	E		21		F	
	PALE	19 1841	1842	1853	S26	E51	6688	06 23.7	12	SF	4	E		22			
0399	HOLL	19 2231	2236	2255	S27	E47	6688	06 23.6	24	SF C 1.8	3	E		83		F	
0400		20 00071	00091	0043	S14	W37	6680	06 17.2	36	SF C 1.6				22		F	
	LEAR	20 0007	0010	0043	S14	W37	6680	06 17.2	36	SF C 1.6	3	E		23			
	HOLL	20 0008	0009	0043	S15	W37	6680	06 17.2	35	SF	3	E		22		F	
0401	HOLL	20 0011	0011	0021	S16	E54	6686	06 24.1	10	SF	3	E		12		F	
0402		20 0152*	0158*	0242	N16	E24	6687	06 21.9	50	SF C 2.2				130	2.2	EK	
	LEAR	20 0152	0200	0259	N16	E24	6687	06 21.9	67	SF		E		59		K	
	LEAR	20 0152	0239	0259	N16	E24	6687	06 21.9	67	SF C 2.2	3	E		87			
	URUM	20 0157	0158	0214	N15	E24	6687	06 21.9	17	SF		C		80	0.9	E	
	PEKG	20 0228	0232	0238	N16	E24	6687	06 21.9	10	1N		C	0232	294	3.4	E	
0403	LEAR	20 0220	0236	0248	S26	E47	6688	06 23.7	28	SF M 1.2	3	E		66			
0404	LEAR	20 0302	0312	0333	N08	E17	6681	06 21.4	31	SF	3	E		29			
0405	TACH	20 0306E		0335	N16	E21	6687	06 21.7	29D	SN	2	C	0306	153	1.6	F	
0406	LEAR	20 0339	0347	0428	S26	E46	6688	06 23.7	49	SF	3	E		91			
0407		20 0415*	04179	0502	S12	W25	6682	06 18.3	47	SF C 2.7				89	2.1	F	
	LEAR	20 0415	0417	0515	S12	W25	6682	06 18.3	60	SF C 2.7	3	E		36		F	
	TACH	20 0426	0426	0442	S12	W26	6682	06 18.2	16	1N	2	C	0426	178	2.1	F	
	SVTO	20 0442E	0445U	0510	S12	W25	6682	06 18.3	28D	SF	3	E		53		F	
0408		20 04566	05047	0535	S14	W41	6680	06 17.1	39	SN M 2.0				103	1.5	DEFZ	
	LEAR	20 0456	0504	0647	S15	W40	6680	06 17.2	111	1B M 2.0	3	E		111		F	
	PEKG	20 0458	0511	0525	S14	W40	6680	06 17.2	27	1B		C	0511	210	2.9	D	
	ONDR	20 0500	0508	0517	S14	W41	6680	06 17.1	17	SN		P	0508	74	1.1	E	
	ABST	20 0501	0504	0523	S13	W41	6680	06 17.1	22	SN		C	0504	114	1.7	D	
	SVTO	20 0501	0508	0533	S15	W42	6680	06 17.0	32	SN	3	E		78		F	
	TACH	20 0502	0508	0522	S14	W44	6680	06 16.9	20	SB	2	C	0508	82	1.2	FZ	
	WATU	20 0504E	0504	0522	S14	W42	6680	06 17.0	18D	SF		C	0504	50	0.7		
0409		20 07033	07073	0736	S27	E41	6688	06 23.5	33	SN C 2.6				118	2.1	EFG	
	YUNN	20 0703	0713U	0735	S28	E39	6688	06 23.3	32	SB		P	0713	79	1.2		
	LEAR	20 0704	0707	0746	S26	E41	6688	06 23.5	42	SN	3	E		77		FE	
	SVTO	20 0704	0710	0741	S26	E43	6688	06 23.6	37	SF C 2.6	3	E		85			
	ABST	20 0705	0709	0720	S26	E42	6688	06 23.5	15	1N		C	0709	175	2.8	E	
	KANZ	20 0706	0710	0739	S26	E42	6688	06 23.5	33	SF	2	C					
	ATHN	20 0707E	0709U	0715D	S30	E38	6688	06 23.3	8D	1B	3	V	0709	191	2.8		
	ONDR	20 0716E	0716U	0720U	S27	E44	6688	06 23.7	4U	SN		P	0716	99	1.6	EG	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0410	LEAR	20	0800	0835	0913	S15	W41	6680	06	17.2	73	SF					20		F	
0411		20	08305	08364	0855	S10	W30	6682	06	18.1	25	SF	C 1.7				90	1.6	EF	
	YUNN	20	0830	0839	0855	S10	W29	6682	06	18.2	25	SN					157	1.9		
	KANZ	20	0832	0840	0848D	S08	W30	6682	06	18.1	16D	SF		2	C					
	LEAR	20	0833	0836	0901	S10	W29	6682	06	18.2	28	SF		3	E			65		F
	SVTO	20	0835	0840	0855	S10	W30	6682	06	18.1	20	SF	C 1.7	3	E			30		F
	ONDR	20	0836E	0840U	0850	S11	W31	6682	06	18.0	14D	SN			P	0840		106	1.3	E
0412	KANZ	20	1012E	1012U	1015D	S14	W37	6680	06	17.6	3D	SF		2	C					
0413		20	11203	11273	1149	S14	W44	6680	06	17.1	29	SF	C 4.7					30		F
	RAMY	20	1120	1127	1143	S13	W45	6680	06	17.1	23	SF		3	E			27		F
	SVTO	20	1121	1130	1145	S16	W45	6680	06	17.0	24	SF	C 4.7	3	E			34		F
	KHAR	20	1123		1200	S14	W43	6680	06	17.2	37	SF		2	V	1123				
0414	RAMY	20	1428	1437	1448	S11	W48	6680	06	17.0	20	SF	C 1.8	3	E			13		
0415	SVTO	20	1522	1528	1535	S10	W35	6682	06	18.0	13	SF	C 2.1	3	E			23		
0416		20	17411	17436	1802	S14	W48	6680	06	17.1	21	SF	C 6.1					27		F
	PALE	20	1741	1743	1802	S15	W48	6680	06	17.1	21	SF	C 6.1	4	E			31		F
	RAMY	20	1742	1749	1801	S13	W48	6680	06	17.1	19	SF		4	E			23		F
0417	HOLL	20	2126	2128	2134	N16	E14	6687	06	21.9	8	SF		3	E			21		F
0418	HOLL	20	2235	2253	2303	N09	E08	6681	06	21.5	28	SF		3	E			31		F
		20	2334		2338	No Flare Patrol														
0419		21	0259	03078	0345	N13	E09	6687	06	21.8	46	1N	M 1.1					394	4.5	BEFSU
	WATU	21	0259	0307	0333	N14	E09	6687	06	21.8	34	SN			C	0307		120	1.3	FSU
	PEKG	21	0259	0307	0340	N14	E08	6687	06	21.7	41	2N			P	0307		1009	10.8	E
	LEAR	21	0259	0307	0402	N13	E08	6687	06	21.7	63	2B	M 1.1	3	E			284		F
	URUM	21	0310E	0315	0335	N14	E09	6687	06	21.8	25D	1B			C			338	3.6	E
	TACH	21	0330E		0354	N12	E12	6687	06	22.0	24D	1F		2	C	0330		219	2.4	BU
0420	LEAR	21	0509	0512	0518	S13	W54	6680	06	17.1	9	SF		3	E			20		
0421	SVTO	21	0515	0516	0521	S04	E84	6692	06	27.5	6	SF	C 2.8	3	E			23		
0422		21	05382	05403	0601	S26	E30	6688	06	23.6	23	SF	C 2.2					107	1.8	EF
	LEAR	21	0538	0541	0611	S27	E29	6688	06	23.5	33	SF	C 2.2	3	E			94		
	SVTO	21	0539	0540	0558	S26	E30	6688	06	23.6	19	SF		3	E			52		F
	ABST	21	0539	0541	0556	S29	E30	6688	06	23.6	17	SF			C	0541		131	1.8	E
	HTPR	21	0540	0543	0600	S22	E33	6688	06	23.8	20	SN			C	0543		150	1.9	
0423	LEAR	21	0828	0834	0906	S13	W56	6680	06	17.1	38	SF	C 1.3	3	E			21		
0424	LEAR	21	0838	0842	0911	S10	W41	6682	06	18.3	33	SF		3	E			41		
0425		21	09454	0949	0958	S12	W36	6682	06	18.7	13	SF								D
	KHAR	21	0945		1000	S11	W31	6682	06	19.1	15	SF		2	V	0945				D
	KANZ	21	0949	0949	0957	S12	W42	6682	06	18.2	8	SF		2	C					
0426	KANZ	21	1009	1009	1013	S14	W59	6680	06	17.0	4	SF		2	C					
0427	KHAR	21	1105	1106	1118	S11	W31	6682	06	19.1	13	SF		2	V	1106				DL
0428		21	11308	11344	1150	S12	W43	6682	06	18.2	20	SF	C 1.2					14		F
	RAMY	21	1130	1135	1149	S12	W44	6682	06	18.2	19	SF	C 1.2	3	E			12		F
	SVTO	21	1134	1134	1152	S13	W43	6682	06	18.2	18	SF		3	E			15		
	KANZ	21	1138	1138	1150	S12	W43	6682	06	18.2	12	SF		2	C					
0429	KHAR	21	1152	1153	1159	S28	W13	6689	06	20.5	7	SF		2	V	1153				E
0430	HTPR	21	1315		1335	S12	W85		06	15.1	20	SF			C					A
0431	HTPR	21	1415	1430	1445	S05	E90	6692	06	28.3	30	SN			C					

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	See	Obs Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0432	HTPR	21	1715E		1730D	S05	E90	6692	06	28.4	15D	SN				C				
0433	HOLL	21	1746	1748	1753	S14	W57	6680	06	17.4	7	SF		3	E		18			F
0434	HOLL	21	1759	1801	1813	S10	W47	6682	06	18.2	14	SF	C 1.4	3	E		21			F
0435		21	2300*	2307*	2344	S11	W50	6682	06	18.2	44	SF	C 3.9				41			FH
	HOLL	21	2300	2307	2344	S09	W50	6682	06	18.2	44	SN	C 3.9	3	E		51			FH
	PALE	21	2308	2311	2338	S11	W50	6682	06	18.2	30	SF		3	E		35			F
	LEAR	21	2326	2337	2351	S12	W50	6682	06	18.2	25	SF		3	E		36			
0436		22	0030*	0054I	0122	S11	W51	6682	06	18.2	52	SF	C 2.6				38			EF
	HOLL	22	0030	0054	0140D	S12	W51	6682	06	18.2	70D	SF		3	E		41			FE
	LEAR	22	0052	0055	0122	S10	W51	6682	06	18.2	30	SF	C 2.6	3	E		35			
0437	LEAR	22	0102	0103	0107	S27	E20	6688	06	23.6	5	SF		3	E		21			
0438	HOLL	22	0106	0108	0140D	S16	E27	6686	06	24.1	34D	SF		3	E		17			F
0439		22	0517	0519	0522	S28	W18	6689	06	20.8	5	SF					24			
	KANZ	22	0517E	0517U	0521	S28	W18	6689	06	20.8	4D	SF		2	C					
	SVTO	22	0517	0519	0523	S28	W19	6689	06	20.7	6	SF		3	E		24			
0440		22	05442	05464	0556	S14	W72	6680	06	16.8	12	SF					48			D
	ABST	22	0544	0546	0553	S13	W75	6680	06	16.6	9	1F			C	0546	87			D
	HTPR	22	0545		0600	S15	W73	6680	06	16.7	15	SF			C					
	KANZ	22	0545	0549	0553	S14	W68	6680	06	17.1	8	SF		2	C					
	SVTO	22	0546	0548	0556	S15	W72	6680	06	16.8	10	SF		3	E		28			
	LEAR	22	0546	0550	0556	S14	W71	6680	06	16.9	10	SF		3	E		29			
0441	ONDR	22	0618	0620	0625	S09	W58	6682	06	17.9	7	SN			P	0620	60	1.2		D
0442	HTPR	22	0620		0700	S06	E85	6693	06	28.6	40	SN			C					
0443	KANZ	22	0725	0729	0733	S14	W70	6680	06	17.0	8	SF		2	C					
0444		22	0824I	0827*	0853	S10	W57	6682	06	18.1	29	1F	C 4.3				87	2.1		EF
	HTPR	22	0824	0827	0855	S10	W58	6682	06	18.0	31	1F			C	0827	120	2.1		
	ONDR	22	0824	0830U	0842U	S09	W58	6682	06	18.0	18U	1N			P	0830	106	2.1		E
	SVTO	22	0824	0840	0852	S11	W56	6682	06	18.1	28	SF	C 4.3	3	E		35			F
	KANZ	22	0825	0829	0853	S11	W56	6682	06	18.1	28	SF		2	C					
0445		22	0941	0945	1005	S14	W72	6680	06	17.0	24	SF								DH
	KHAR	22	0941		0950U	S14	W73	6680	06	16.9	9U	SF		2	V	0941				DH
	KANZ	22	0941	0945	1005	S15	W72	6680	06	16.9	24	SF		2	C					
0446	KHAR	22	1022U	1025	1028	S15	W90		06	15.6	6U	SF		2	V	1025				DH
0447		22	10292	1037I	1046	S14	W73	6680	06	16.9	17	SF	C 1.6				57			DHT
	KANZ	22	1029	1037	1045	S15	W72	6680	06	17.0	16	SF		2	C					
	SVTO	22	1031	1038	1044	S16	W75	6680	06	16.7	13	SF	C 1.6	3	E		53			
	KHAR	22	1035E		1042D	S14	W75	6680	06	16.8	7D	SN		2	P	1039	80			DHT
	RAMY	22	1037E	1038U	1050	S12	W71	6680	06	17.1	13D	SF		2	E		38			H
0448	KHAR	22	1150E	1150U	1205	S32	E26		06	24.5	15D	SF		2	V	1150				DL
0449		22	1152	1152	1156	S13	W74	6680	06	16.9	4	SN					13			DT
	KHAR	22	1150E		1210D	S14	W75	6680	06	16.8	20D	SN		2	V	1150				DT
	RAMY	22	1152	1152	1156	S12	W72	6680	06	17.1	4	SF		3	E		13			
0450		22	1205*	1234*	1404	S30	E15	6688	06	23.7	119	1F	C 3.5				84			FU
	SVTO	22	1205	1236	1423	S32	E18	6688	06	23.9	138	1F	C 3.5	3	E		110			F
	HOLL	22	1222E	1235U	1400D	S30	E14	6688	06	23.6	98D	SN		1	E		82			UF
	RAMY	22	1223	1256	1335	S28	E15	6688	06	23.7	72	SF		3	E		60			F
	KANZ	22	1230E	1234	1414	S28	E14	6688	06	23.6	104D	1F		2	C					

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
							Region	W							Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0451		22 13028	13029	1321	S13	W74	6680	06	16.9	19	1F	C	4.8			63	7.1	AEK	
	RAMY	22 1302	1302	1320	S12	W73	6680	06	17.0	18	SF			3	E	29			
	RAMY	22 1302	1311	1320	S12	W73	6680	06	17.0	18	SF				E	35		K	
	SVTO	22 1307	1311	1317	S15	W74	6680	06	16.9	10	SF	C	4.8	3	E	47			
	ONDR	22 1309E	1312U	1318	S14	W77	6680	06	16.7	9D	2B				P	1312	141	7.1	EA
	KANZ	22 1310	1310	1330	S14	W73	6680	06	17.0	20	SF			2	C				
0452		22 16203	16235	1641	S31	W38	6678	06	19.7	21	SF	C	2.4			46		F	
	HOLL	22 1620	1623	1644	S31	W38	6678	06	19.7	24	SF			3	E	60		F	
	KANZ	22 1620	1624	1644	S33	W38	6678	06	19.7	24	SF			2	C				
	SVTO	22 1621	1623	1646	S29	W38	6678	06	19.7	25	SF	C	2.4	3	E	41			
	RAMY	22 1623	1628	1631	S31	W37	6678	06	19.8	8	SF			3	E	37		F	
0453	KANZ	22 1720	1720	1724	S11	W65	6682	06	17.8	4	SF			2	C				
0454		22 17551	17551	1802	S28	W26	6689	06	20.7	7	SF					25			
	HOLL	22 1755	1755	1805	S29	W27	6689	06	20.6	10	SF			3	E	25			
	KANZ	22 1756	1756	1800	S27	W26	6689	06	20.7	4	SF			2	C				
0455		22 1930	19333	2001	N09	W16	6681	06	21.6	31	SF	C	1.7			32			
	HOLL	22 1930	1933	2003	N10	W14	6681	06	21.8	33	SF			3	E	36			
	HOLL	22 1930	1936	1959	N08	W19	6681	06	21.4	29	SF	C	1.7	3	E	27			
0456		22 22471	2249*	2330	S30	W41	6678	06	19.7	43	SF					56		F	
	HOLL	22 2247	2307	2339	S30	W41	6678	06	19.7	52	SF			3	E	93		F	
	PALE	22 2248	2249	2322	S31	W41	6678	06	19.7	34	SF			3	E	20		F	
0457	LEAR	22 2340	2341	2424	S28	W46	6678	06	19.4	44	SF			3	E	35			
0458	LEAR	23 0041	0043	0047	S13	W91	6680	06	16.2	6	SF			3	E	33			
0459	VORO	23 0140E	0142	0145D	S10	W57	6682	06	18.8	5D	SF			1	C	0142	63	1.2	DIJ
0460	LEAR	23 0311	0313	0316	S12	W65	6682	06	18.2	5	SF			3	E	20			
0461		23 0516	05221	0539	S27	W34	6689	06	20.6	23	1F	C	3.2			140	1.3	EF	
	LEAR	23 0516	0522	0543	S27	W35	6689	06	20.5	27	1N			3	E	183		FE	
	SVTO	23 0516	0523	0546	S28	W34	6689	06	20.6	30	1F	C	3.2	3	E	151		F	
	ABST	23 0522E	0522U	0529	S27	W34	6689	06	20.6	7D	SF				P	0522	87	1.3	E
0462	KANZ	23 0903	0903	0915	S11	W68	6682	06	18.3	12	SF			2	C				
0463	KHAR	23 1010	1010U	1015	S14	W90	6680	06	16.6	5	SF			2	P	1010			DH
0464		23 10185	10221	1030	N10	W23	6681	06	21.7	12	SF	C	1.3			36			
	SVTO	23 1018	1022	1029	N11	W22	6681	06	21.8	11	SF	C	1.3	3	E	36			
	KANZ	23 1023	1023	1031	N09	W24	6681	06	21.6	8	SF			2	C				
0465	SVTO	23 1057	1104	1150	N15	W21	6687	06	21.9	53	SF			3	E	28			
0466	SVTO	23 1551	1551	1555	S12	W88	6680	06	17.0	4	SF			3	E	17			
0467		23 16116	1621	1640	S11	W72	6682	06	18.2	29	SF	C	2.8			40		F	
	HOLL	23 1611	1621	1643	S10	W71	6682	06	18.3	32	SF	C	2.8	3	E	50		F	
	SVTO	23 1617	1621	1638	S12	W73	6682	06	18.2	21	SF			3	E	29			
0468	HOLL	23 1708	1711	1721	N15	W26	6687	06	21.7	13	SF			3	E	16			
0469		23 18292	18301	1854	N15	W25	6687	06	21.9	25	SF					28		F	
	HOLL	23 1829	1830	1901	N15	W25	6687	06	21.9	32	SF			3	E	36		F	
	PALE	23 1831	1831	1847	N15	W25	6687	06	21.9	16	SF			3	E	19			
0470		23 18561	18574	1905	S08	W81	6682	06	17.7	9	SF	M	1.7			52		F	
	HOLL	23 1856	1857	1906	S08	W81	6682	06	17.7	10	SF	M	1.7	3	E	58			
	RAMY	23 1857	1857	1905	S06	W81	6682	06	17.7	8	SF			3	E	43		F	
	PALE	23 1857	1901	1905	S09	W80	6682	06	17.8	8	SF			3	E	54			
0471	HOLL	23 1921	1921	1926	S10	W74	6682	06	18.2	5	SF			3	E	21			

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks
											Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0472		23 1943*	1949*	1952	S30	W53 6678	06 19.6	9	SF C 3.0				34	
	HOLL	23 1943	1949	1952	S30	W52 6678	06 19.7	9	SF	3	E		20	
	PALE	23 1955	2004	2019D	S30	W54 6678	06 19.6	24D	SF C 3.0	3	E		49	
0473		23 21217	2128	2150	S10	W74 6682	06 18.3	29	SF C 2.0				63	
	HOLL	23 2121	2128	2142	S10	W76 6682	06 18.2	21	SF	3	E		45	
	PALE	23 2128	2128	2159	S11	W73 6682	06 18.4	31	SF C 2.0	3	E		81	
0474		24 0132	0136	0156	S13	W72 6682	06 18.6	24	SF				35	
	LEAR	24 0132	0136	0156	S11	W79 6682	06 18.1	24	SF	3	E		51	
	PALE	24 0136E	0136U	0216D	S15	W66 6682	06 19.1	40D	SF	3	E		19	
0475		24 06223	0625	0634	S12	W74 6682	06 18.7	12	SF				24	
	LEAR	24 0622	0625	0634	S11	W78 6682	06 18.4	12	SF	3	E		35	
	SVTO	24 0625	0625	0634	S13	W71 6682	06 18.9	9	SF	3	E		12	
0476	LEAR	24 0658	0710	0736	N15	W33 6687	06 21.8	38	SF	3	E		37	
0477		24 0854	0855	0907	S12	W76 6682	06 18.6	13	1F				90	
	SVTO	24 0854	0855	0907	S14	W72 6682	06 18.9	13	SF	3	E		50	
	LEAR	24 0854	0856U	0856D	S11	W79 6682	06 18.4	2D	1F	3	E		129	
0478	LEAR	24 0902	0903	0914	S07	E52 6692	06 28.3	12	SF	3	E		28	
0479		24 0933	09363	1005	N08	E60 6694	06 28.9	32	SN				25	F
	SVTO	24 0933	0936	1004	N09	E61 6694	06 29.0	31	SN	3	E		25	F
	KANZ	24 0935E	0939	1006	N06	E58 6694	06 28.7	31D	SF	2	C			
0480		24 09432	09474	0956	N08	W40 6681	06 21.4	13	SF				16	
	KANZ	24 0943	0947	0958	N08	W39 6681	06 21.5	15	SF	2	C			
	SVTO	24 0944	0951	0958	N08	W40 6681	06 21.4	14	SF	3	E		21	
	SVTO	24 0945	0950	0953	N08	W40 6681	06 21.4	8	SF	3	E		10	
0481		24 09531	0958	1008	S08	E52 6692	06 28.3	15	SF				46	F
	SVTO	24 0953	0958	1009	S06	E51 6692	06 28.2	16	SF	3	E		46	F
	KANZ	24 0954	0958	1006	S09	E53 6692	06 28.4	12	SF	2	C			
0482		24 10472	10481	1055	N06	E57 6694	06 28.7	8	SF				16	
	SVTO	24 1047	1048	1053	N07	E56 6694	06 28.6	6	SF	3	E		16	
	KANZ	24 1049	1049	1057	N05	E58 6694	06 28.8	8	SF	2	C			
0483		24 12432	1245	1249	S12	W72 6682	06 19.1	6	SF C 1.6				37	
	SVTO	24 1243	1245	1249	S13	W73 6682	06 19.0	6	SF C 1.6	3	E		37	
	KANZ	24 1245	1245	1249	S12	W72 6682	06 19.1	4	SF	2	C			
0484		24 1245	12453	1259	N06	E55 6694	06 28.6	14	SF				17	
	KANZ	24 1245	1245	1256D	N06	E55 6694	06 28.6	11D	SF	2	C			
	SVTO	24 1245	1248	1259	N07	E55 6694	06 28.6	14	SF	3	E		17	
0485	SVTO	24 1247	1248	1251	S04	E56 6693	06 28.7	4	SF	3	E		21	
0486	SVTO	24 1352	1356	1358	S16	W85 6682	06 18.1	6	SF	3	E		21	
0487	SVTO	24 1416	1420	1427	N08	W44 6681	06 21.3	11	SF	3	E		10	
0488	HOLL	24 1432	1436	1529	S07	E60 6693	06 29.1	57	SF	3	E		56	F
0489		24 14344	14362	1452	N07	E56 6694	06 28.8	18	SF				16	
	HOLL	24 1434	1436	1458	N06	E56 6694	06 28.8	24	SF	3	E		20	
	SVTO	24 1438	1438	1445	N08	E55 6694	06 28.7	7	SF	3	E		11	
0490	SVTO	24 1657	1658	1701	S14	W85 6682	06 18.3	4	SF	3	E		12	
0491	PALE	24 1754	1759	1807	N15	W37 6687	06 21.9	13	SF	3	E		22	FH
0492		24 18281	1829	1836	N05	E52 6694	06 28.6	8	SF				23	F
	HOLL	24 1828	1829	1835	N05	E52 6694	06 28.6	7	SF	3	E		33	F
	PALE	24 1829	1829	1838	N05	E53 6694	06 28.7	9	SF	3	E		13	

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Imp See	Obs Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0493		24	2115	2116	2122	N06 E51	6694	06	28.7	7	SF	C 1.8				20		
	PALE	24	2115	2116	2122	N05 E51	6694	06	28.7	7	SF	C 1.8	4	E		21		
	HOLL	24	2115	2116	2122	N06 E51	6694	06	28.7	7	SF		3	E		19		
0494		25	0303	0315*	0524D	N05 E47	6694	06	28.6	141D	SF					54		FK
	LEAR	25	0303	0315	0524D	N05 E47	6694	06	28.6	141D	SF			E		47		K
	LEAR	25	0303	0331	0524D	N05 E47	6694	06	28.6	141D	SF		3	E		60		F
0495	LEAR	25	0311	0330	0349	N02 E76	6695	06	30.8	38	SF		3	E		87		F
0496	LEAR	25	0403	0404	0408	N16 W44	6687	06	21.8	5	SF		3	E		18		
0497	SVTO	25	0617	0619	0627	N14 W47	6687	06	21.7	10	SF		4	E		17		F
0498	SVTO	25	0750	0751	0801	S09 E43	6692	06	28.5	11	SF		4	E		14		
0499	HTPR	25	0750	0753	0800	S15 E35	6691A	06	28.0	10	SF			C	0753	30	0.4	D
0500		25	0806	08062	0815	S06 E38	6692	06	28.2	9	SF					51	0.9	EF
	SVTO	25	0806	0806	0814	S09 E40	6692	06	28.3	8	SF		4	E		32		F
	HTPR	25	0806	0808	0816	S04 E36	6692	06	28.0	10	SF			C	0808	70	0.9	E
0501		25	09011	09071	0926	S12 E40	6692	06	28.4	25	SF	C 5.1				76	1.4	
	SVTO	25	0901	0908	0928	S09 E42	6692	06	28.5	27	SF	C 5.1	4	E		51		
	HTPR	25	0902	0907	0925	S14 E37	6692	06	28.2	23	SF			C	0907	100	1.4	
0502		25	1637*	16497	1703	N05 E40	6694	06	28.7	26	SF					28		
	RAMY	25	1637	1649	1654	N04 E39	6694	06	28.6	17	SF		3	E		16		
	RAMY	25	1656	1656	1712	N06 E41	6694	06	28.8	16	SF		3	E		40		
		25	2110		2114	No Flare Patrol												
0503		26	0150	0153	0228	N04 E65	6695	06	30.9	38	1F					104		EFJ
	VORO	26	0150	0153	0206D	N03 E65	6695	06	30.9	16D	1F		1	C	0153	125		EJ
	PALE	26	0204E	0204U	0228	N04 E65	6695	06	30.9	24D	SF		3	E		82		F
0504	SVTO	27	0616	0622	0641	N05 E47	6695	06	30.8	25	SF		3	E		33		
0505	YUNN	27	0716E	0717U	0720D	S07 E22	6693	06	28.9	4D	SN			P	0717	24	0.3	
0506	KHAR	27	1142E		1212	N21 W39	6685	06	24.5	30D	SF		2	P	1144	80	1.1	D
0507		27	13053	1317	1326	N17 W79	6687	06	21.5	21	SN					93		
	HTPR	27	1305		1330	N18 W75	6687	06	21.8	25	SN			C				
	SVTO	27	1308	1317	1323	N16 W83	6687	06	21.2	15	SF		3	E		93		
0508		27	1314*	14171	1505	S07 E10	6692	06	28.3	111	2N	M 1.4				242		F
	HOLL	27	1314	1418	1509	S07 E11	6692	06	28.4	115	2N	M 1.4	3	E		297		
	SVTO	27	1317	1417	1510	S08 E08	6692	06	28.1	113	2F		3	E		275		F
	RAMY	27	1330	1409U	1456	S07 E10	6692	06	28.3	86	1N		3	E		154		
0509	HOLL	27	1342	1356	1427	N06 E14	6694	06	28.6	45	SF		3	E		22		
0510		27	1258*	13469	1419	S05 E05	6697	06	27.9	81	SF					50		
	HOLL	27	1258	1346	1440	S06 E07	6697	06	28.1	102	SF		3	E		87		
	RAMY	27	1354	1355	1358	S04 E03	6697	06	27.8	4	SF		3	E		12		
0511		27	1315*	13357	1456	S05 E12	6693	06	28.4	101	1F					190	3.7	
	HTPR	27	1315	1335	1515	S05 E11	6693	06	28.4	120	1F			C	1345	360	3.7	
	HOLL	27	1328	1342	1438	S05 E14	6693	06	28.6	70	SF		3	E		20		
0512		27	15211	15231	1535	N05 E40	6695	06	30.6	14	SF					24		F
	SVTO	27	1521	1523	1540	N05 E39	6695	06	30.5	19	SF		3	E		30		F
	RAMY	27	1522	1524	1530	N05 E42	6695	06	30.8	8	SF		3	E		18		F
0513	SVTO	27	1556	1557	1604	S06 E16	6693	06	28.9	8	SF		3	E		26		

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	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)		
0514		27 16394	16423	1657	N04 E13	6694	06 28.7	18	SF			25		F	
	HOLL	27 1639	1642	1657	N04 E13	6694	06 28.7	18	SF	3 E		23			
	SVTO	27 1641	1643	1700	N04 E12	6694	06 28.6	19	SF	3 E		32			
	RAMY	27 1643	1645	1654	N04 E13	6694	06 28.7	11	SF	3 E		21		F	
0515	HOLL	27 1847	1850	1859	N17 W81	6687	06 21.6	12	SF	3 E		80			
0516	HOLL	27 2006	2008	2024	N22 W43	6685	06 24.5	18	SF C 3.3	3 E		57			
0517	HOLL	27 2031	2039	2047	N06 E10	6694	06 28.6	16	SF	3 E		87			
0518	HOLL	27 2149	2150	2155D	S11 E06	6692	06 28.4	6D	SF	3 E		29		F	
0519	VORO	27 2304E	2306	2312	S09 E09	6692	06 28.6	8D	SF	1 C	2306	81	0.8	EIJ	
0520		28 0046	00471	0057	S08 E08	6693	06 28.6	11	SF			30	0.5	DEFIJ	
	HOLL	28 0046	0047	0057	S07 E07	6693	06 28.5	11	SF	3 E		15		FE	
	VORO	28 0046	0048	0050D	S09 E08	6693	06 28.6	4D	SF	1 C	0048	45	0.5	DIJ	
0521	PALE	28 0142	0143	0210D	N22 W46	6685	06 24.5	28D	SF C 2.5	3 E		16			
		28 0304		0312	No Flare Patrol										
0522	PEKG	28 0349E	0349	0355	N03 E37	6695	06 30.9	6D	1N		P	0349	210	2.7	D
0523		28 0452*	0454*	0513	S08 E08	6693	06 28.8	21	SN			127	1.6	DFU	
	TACH	28 0452	0454	0514	S06 E07	6693	06 28.7	22	SB	2 C	0454	97	1.0	U	
	SVTO	28 0455	0459	0516	S08 E09	6693	06 28.9	21	SF	3 E		58		F	
	WATU	28 0456	0459	0501	S08 E07	6693	06 28.7	5	SF		C	0459	60	0.6	
	PEKG	28 0502	0505	0520	S09 E11	6693	06 29.0	18	1N		P	0505	294	3.2	D
0524		28 0715*	0721*	0750	S07 E05	6693	06 28.7	35	SN			90	1.0	DEFL	
	HTPR	28 0715	0722	0730	S07 E02	6693	06 28.4	15	SN		C	0722	110	1.1	E
	SVTO	28 0717	0722	0811	S06 E07	6693	06 28.8	54	SN	3 E		71		F	
	ABST	28 0717	0723	0733	S09 E03	6693	06 28.5	16	SN		C	0723	148	1.5	F
	ABST	28 0719	0721	0731	S10 E09	6693	06 29.0	12	SF		C	0721	70	0.7	D
	KANZ	28 0719	0723	0735	S07 E03	6693	06 28.5	16	SN	2 C					
	URUM	28 0720E	0725	0740	S08 E03	6693	06 28.5	20D	SF		C	80	0.8	E	
	ISTA	28 0733E		0736	S06 E06	6693	06 28.8	3D	1N		P			F	
	KHAR	28 0745E		0757	S08 E05	6693	06 28.7	12D	SF	1 P	0750	90	1.0	EL	
	HTPR	28 0753	0800	0810	S05 E05	6693	06 28.7	17	SF		C	0800	60	0.6	
	KANZ	28 0755	0755	0815	S05 E07	6693	06 28.8	20	SF	2 C					
	ISTA	28 0802		0808	S06 E06	6693	06 28.8	6	1N		P			F	
0525		28 08003	08035	0831	N12 E69	6699	07 3.5	31	1N			135		EFU	
	KHAR	28 0800	0803	0827	N13 E70	6699	07 3.6	27	1N	2 P	0806	180		E	
	HTPR	28 0800	0808	0845	N12 E67	6699	07 3.4	45	1N		C	0808	120		
	SVTO	28 0801	0803	0833	N13 E67	6699	07 3.4	32	1F	3 E		105		F	
	ISTA	28 0803		0821	N09 E75	6699	07 4.0	18	2B		P			F	
	KANZ	28 0803	0803	0829	N12 E66	6699	07 3.3	26	1F	2 C				U	
0526		28 0921	0924	0939	N04 E33	6695	06 30.8	18	SF			40			
	SVTO	28 0921	0924	0940	N05 E33	6695	06 30.8	19	SF	3 E		40			
	KANZ	28 0926E	0926U	0938	N04 E33	6695	06 30.9	12D	SF	2 C					
0527		28 0938	0938	0943	S07 E02	6693	06 28.5	5	SF			75	0.8	DH	
	KHAR	28 0937E		0944	S06 E03	6693	06 28.6	7D	SF	2 P	0940	75	0.8	DH	
	KANZ	28 0938	0938	0942	S08 E01	6693	06 28.5	4	SF	2 C					
0528		28 10134	10163	1027	N07 E32	6695	06 30.8	14	SF			32	0.6	DH	
	HTPR	28 1013	1016	1025	N04 E32	6695	06 30.8	12	SF		C	1016	50	0.6	D
	SVTO	28 1015	1016	1027	N07 E32	6695	06 30.8	12	SF	3 E		18			
	KANZ	28 1016	1016	1024	N06 E31	6695	06 30.7	8	SF	2 C					
	RAMY	28 1016	1019	1031	N09 E33	6695	06 30.9	15	SF	2 E		13			
	KHAR	28 1017	1019	1028	N07 E30	6695	06 30.7	11	SF	2 P	1022	45	0.5	DH	

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
														Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0529	28	10441	10471	1112	S07	E03	6693	06	28.7	28	1N	M 1.1			141	2.3	FH		
	KANZ	28	1044	1047	1055D	S09	E02	6693	06	28.6	11D	1N	2	C					
	RAMY	28	1044	1048	1110	S06	E02	6693	06	28.6	26	SN	2	E		87		F	
	SVTO	28	1045	1047	1110	S06	E06	6693	06	28.9	25	1N	M 1.1	3	E		106		F
	HTPR	28	1045	1047	1115	S07	E03	6693	06	28.7	30	1N		C	1047	230	2.3	H	
0530	28	1045	1047*	1111	S11	W02	6692	06	28.3	26	SN				47		K		
	SVTO	28	1045	1047	1111	S11	W02	6692	06	28.3	26	SN	3	E		52			
	SVTO	28	1045	1059	1111	S11	W02	6692	06	28.3	26	SN		E		42		K	
0531	28	13414	14105	1442	S05	W07	6697	06	28.0	61	SF				115	1.7	F		
	HOLL	28	1341	1415	1425	S06	W05	6697	06	28.2	44	SF	3	E		60		F	
	HTPR	28	1345	1410	1500	S05	W07	6697	06	28.0	75	SF		C	1410	170	1.7		
	KANZ	28	1357E	1400U	1400D	S05	W08	6697	06	28.0	3D	SF	2	C					
0532	28	14032	14061	1424	N22	W53	6685	06	24.5	21	SF				31		F		
	RAMY	28	1403	1406	1425	N22	W53	6685	06	24.5	22	SF	3	E		29			
	HOLL	28	1405	1407	1422	N22	W53	6685	06	24.5	17	SF	3	E		33		F	
0533	HOLL	28	1427	1430	1444	S27	E12	6700	06	29.5	17	SF	3	E		15			
0534	HOLL	28	1449	1450	1500	N04	E29	6695	06	30.8	11	SF	3	E		27		F	
0535	HOLL	28	1559	1601	1616	N03	E29	6695	06	30.8	17	SF	3	E		15			
0536	28	1616	16183	1630	S08	W02	6693	06	28.5	14	SF				24		F		
	SVTO	28	1616	1618	1630	S07	W02	6693	06	28.5	14	SF	3	E		21		F	
	HOLL	28	1616	1621	1630	S08	W02	6693	06	28.5	14	SF	3	E		28		F	
0537	HOLL	28	1701	1703	1714	N04	E28	6695	06	30.8	13	SF	3	E		39		F	
0538	HOLL	28	1808	1816	1838	S07	W05	6693	06	28.4	30	SF	3	E		34		F	
0539	HOLL	29	0003	0010	0052	S05	W04	6693	06	28.7	49	SF	2	E		28		F	
0540	29	0005*	0022*	0103	N03	W05	6694	06	28.6	58	SN	C 5.7			152	3.5	EF		
	HOLL	29	0005	0022	0119	N03	W05	6694	06	28.6	74	SF	2	E		96		F	
	PEKG	29	0010	0029	0045	N02	W04	6694	06	28.7	35	1B		C	0028	336	3.5	E	
	PALE	29	0021	0044	0105	N03	W06	6694	06	28.6	44	SF	C 5.7	3	E		23		
0541	LEAR	29	0014	0028	0057	S12	W10	6692	06	28.2	43	SF		3	E		22		
0542	PEKG	29	0301E	0305	0305D	N22	W61	6685	06	24.4	4D	SN		P	0305	84	1.7	D	
0543	29	04456	04476	0505	S06	W12	6693	06	28.3	20	SN	C 2.9			78	1.3	DF		
	PEKG	29	0445	0447	0503	S06	W14	6693	06	28.1	18	SN		P	0447	126	1.3	D	
	SVTO	29	0451	0453	0507	S06	W11	6693	06	28.4	16	SF	C 2.9	3	E		31		F
0544	29	0555	05562	0607	S08	W09	6693	06	28.6	12	SN	C 4.2			109	2.7	DEF		
	PEKG	29	0555	0556	0604	S09	W10	6693	06	28.5	9	1B		C	0555	252	2.7	D	
	LEAR	29	0555	0557	0610	S06	W08	6693	06	28.6	15	SN	C 4.2	3	E		43		FE
	SVTO	29	0555	0558	0608	S08	W09	6693	06	28.6	13	SF		3	E		32		F
0545	SVTO	29	0851	0914	0916	N07	W08	6694	06	28.8	25	SF	C 2.3	3	E		12		F
0546	29	10082	10112	1028	S07	W08	6693	06	28.8	20	SN	C 3.9			103	1.4	EF		
	SVTO	29	1008	1011	1025	S06	W07	6693	06	28.9	17	SF	C 3.9	3	E		31		F
	HTPR	29	1010	1013	1030	S07	W06	6693	06	29.0	20	SN		C	1013	120	1.2	E	
	ATHN	29	1015E	1015U	1018D	S08	W10	6693	06	28.7	3D	SN		3	V	1015	159	1.7	
0547	SVTO	29	1038	1040	1053	S06	W07	6693	06	28.9	15	SF	C 3.0	3	E		32		F
0548	SVTO	29	1123	1128	1154	S06	W09	6693	06	28.8	31	SF	C 2.7	3	E		33		F
0549	29	12491	12511	1301	S07	W13	6693	06	28.6	12	SF	C 2.2			21		F		
	RAMY	29	1249	1252	1259	S06	W13	6693	06	28.6	10	SF		2	E		19		F
	SVTO	29	1250	1251	1303	S08	W13	6693	06	28.6	13	SF	C 2.2	3	E		23		
0550	HOLL	29	1539	1543	1549	N28	E90	6703	07	6.7	10	SF	M 1.6	3	E		52		

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JUNE 1991

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)	
0551	HOLL	29	1633	1633	1640	S06	W14	6693	06	28.6	7	SF		3	E		19		
0552	PALE	29	1909	1909	1916	S06	W16	6693	06	28.6	7	SF		3	E		19		F
0553	RAMY	29	2032	2034	2054	S07	W31	6697	06	27.5	22	SF	C 2.3	3	E		27		F
			29 2231		2244			No Flare Patrol											
			29 2259		2303			No Flare Patrol											
			29 2321		2325			No Flare Patrol											
0554	LEAR	30	0058	0059	0114	S06	W19	6693	06	28.6	16	SF	C 2.2	3	E		34		
0555	LEAR	30	0309	0309	0335	S06	W20	6693	06	28.6	26	SF		3	E		52		
0556	LEAR	30	0333	0337	0344	N05	W20	6694	06	28.6	11	SF		3	E		25		
0557		30	07244	07284	0737	N14	E50	6699	07	4.1	13	1N	C 3.2				153	5.8	F
	ABST	30	0724	0728	0735D	N14	E50	6699	07	4.1	11D	2N			C	0728	262	5.8	F
	SVTO	30	0728	0729	0734	N12	E46	6699	07	3.8	6	SF	C 3.2	3	E		44		F
	KANZ	30	0732E	0732	0740	N15	E53	6699	07	4.3	8D	SN		2	C				
0558	KANZ	30	0800	0800	0818D	N11	E51	6699	07	4.2	18D	SF		2	C				
0559	KHAR	30	0835E		0905	N36	E90		07	7.6	30D	SF		2	P	0835			H
0560		30	08554	0903	0912	N02	E03	6695	06	30.6	17	SF					34		D
	SVTO	30	0855	0903	0911	N02	E04	6695	06	30.7	16	SF		3	E		34		
	KHAR	30	0859		0912	N01	E02	6695	06	30.5	13	SF		2	V	0902			D
0561	SVTO	30	0903	0904	0914	N06	W22	6694	06	28.7	11	SF		3	E		14		
0562	KHAR	30	1050	1116U	1141	N36	E90		07	7.7	51	1N		2	P	1116			
0563	KHAR	30	1127		1147	S16	E90	6707	07	7.3	20	SF		2	P				EY
0564	SVTO	30	1207	1213	1227	N06	W24	6694	06	28.7	20	SF	C 6.3	3	E		30		
0565	SVTO	30	1216	1218	1222	N30	E89	6703	07	7.5	6	SF		3	E		30		
0566		30	1239	1240	1355	S09	W18	6698	06	29.2	76	SF					68		
	SVTO	30	1239	1240	1355	S10	W20	6698	06	29.0	76	SF		3	E		68		
	KANZ	30	1244E	1244U	1315D	S08	W17	6698	06	29.2	31D	SF		2	C				
0567		30	13341	13393	1433	N09	E43	6699	07	3.8	59	1N	C 4.7				161		FU
	SVTO	30	1334	1339	1433	N11	E43	6699	07	3.8	59	1N	C 4.7	3	E		211		F
	RAMY	30	1335	1342U	1419	N08	E44	6699	07	3.9	44	1F		3	E		108		UF
	KANZ	30	1339E	1342	1435D	N07	E43	6699	07	3.8	56D	1N		2	C				
	HOLL	30	1341E	1341U	1448	N09	E43	6699	07	3.8	67D	1F		2	E		165		U
0568	SVTO	30	1521	1537	1553	N04	W27	6694	06	28.6	32	SF		3	E		12		
0569		30	15293	1532*	1628	N12	E39	6699	07	3.6	59	1N	M 1.1				78		EFKU
	SVTO	30	1529	1534	1637	N13	E39	6699	07	3.6	68	1N	M 1.1	3	E		126		UF
	RAMY	30	1529	1542	1611	N11	E40	6699	07	3.6	42	SF		3	E		41		UF
	SVTO	30	1529	1614	1637	N13	E39	6699	07	3.6	68	SN			E		42		K
	KANZ	30	1532	1532	1624D	N13	E39	6699	07	3.6	52D	1F		2	C				
	HOLL	30	1553E	1554U	1639D	N12	E40	6699	07	3.7	46D	1N		2	E		105		E
0570		30	18462	1853*	1923	N12	E34	6699	07	3.3	37	1N	C 7.2				116		FK
	HOLL	30	1846	1854	1932	N11	E35	6699	07	3.4	46	1B	C 7.2	4	E		173		
	HOLL	30	1846	1914	1932	N11	E35	6699	07	3.4	46	SB			E		33		K
	PALE	30	1848	1853	1916	N13	E34	6699	07	3.3	28	1F		3	E		143		
	RAMY	30	1903E		1912	N11	E33	6699	07	3.3	9D	SF		3	E				F
0571		30	2131	21371	2144	N27	E81	6703	07	7.2	13	SF	C 2.5				84		
	HOLL	30	2131	2137	2147	N29	E83	6703	07	7.4	16	SF	C 2.5	3	E		96		
	RAMY	30	2137E	2138	2141	N25	E79	6703	07	7.0	4D	SF		2	E		72		
0572	HOLL	30	2148	2148	2158	S07	W30	6693	06	28.7	10	SF		3	E		19		F

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JUNE 1991

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)	
0573	HOLL	30	2229	2242	2311	N27	E85	6703	07	7.6	42	SF	C	8.4	3	E	78	
		30	2243		2258			No Flare Patrol										

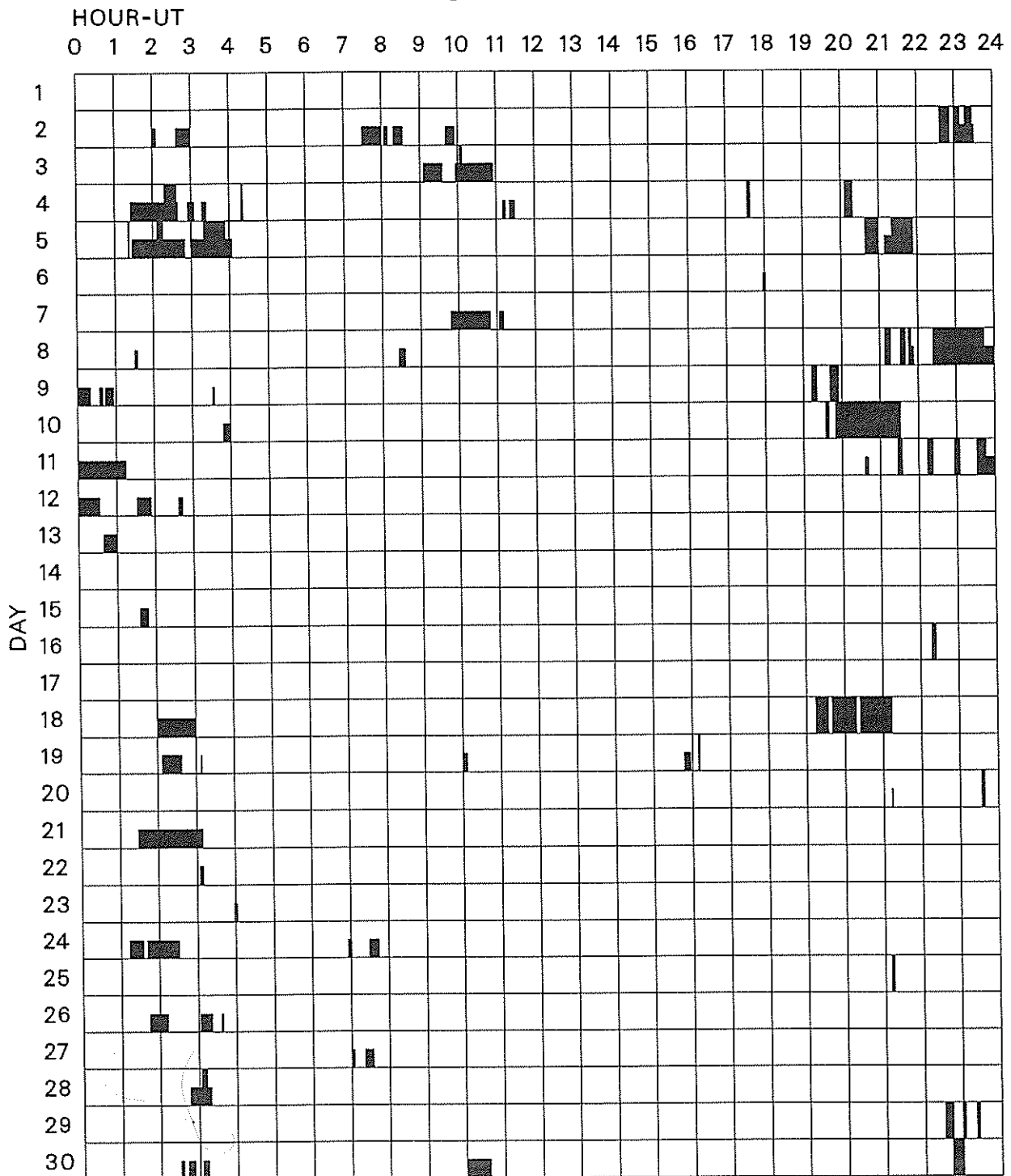
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

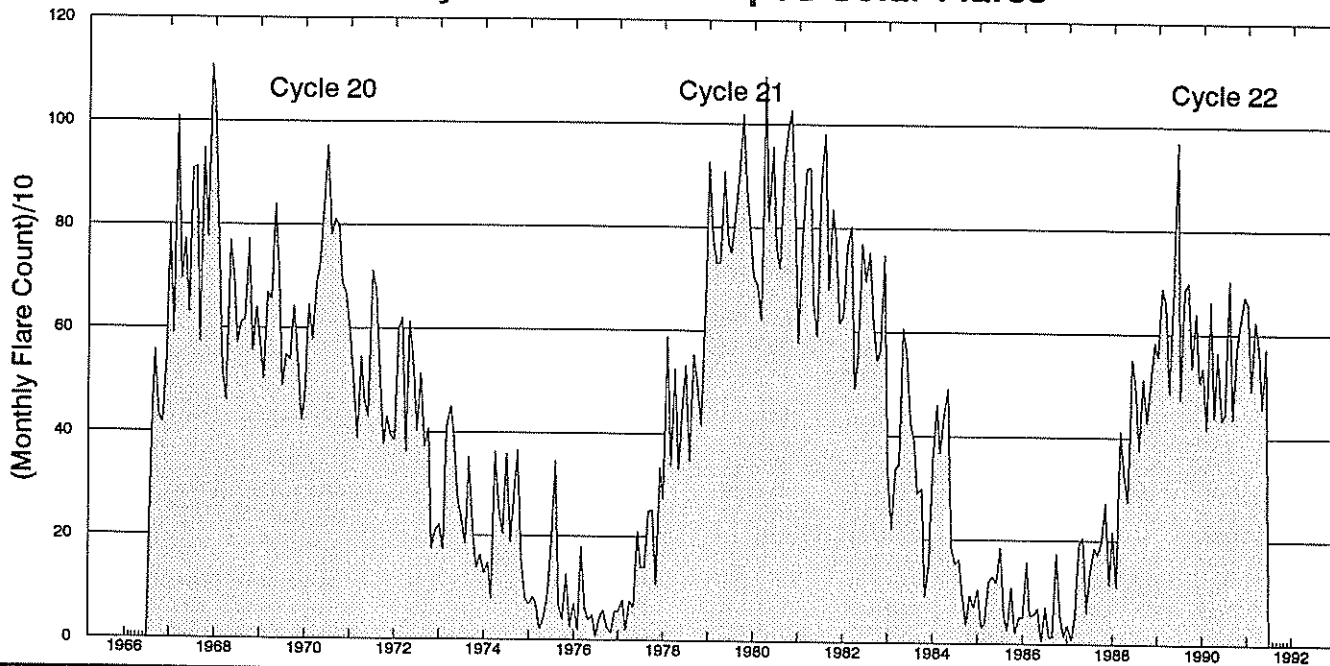
JUNE 1991



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 | Holloman | Kanzelhoehe | Palehua | Tashkent |
| Athens | Hurbanovo | Kharkov | Peking | Urumqi |
| Bucharest | Istanbul | Learmonth | Ramey | Voroshilov |
| Haute Provence | Kandilli | Ondrejov | San Vito | Watukosek |
| | | | | Yunnan |

Monthly Counts of Grouped Solar Flares*



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1966	--	--	--	--	--	--	--	391	558	432	417	543	2341
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	508	584	4803
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664	439	565	433	447	703	436	569	619	672	6498
1991	659	491	625	570	458	573							3376

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

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

JUNE 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
01	200 HIRA	43 NS	0140.0	0244.0	460.0D	80.0	20.0		SL
	200 GORK	44 NS	0249.0E		432.0D		2.0		
	33 UPIC	43 NS	0514.0	1145.5	626.0				
	245 SVTO	44 NS	0557.0E	0832.0	191.0D	130.0			QL=4 ST=2 TYP=1
	204 IZMI	43 NS	0600.0		360.0	95.0			
	536 ONDR	44 NS	0600.0E	1502.5U	630.0D				
	260 ONDR	44 NS	0600.0E	1503.5U	630.0D				
	127 TORN	44 NS	0620.0E		492.0D		80.0		V=1
	100 GORK	43 NS	0621.0		198.0D		5.0		
	430 KRAK	44 NS	0711.0E	0819.3	141.5D	190.0	41.0		
	410 LEAR	44 NS	0751.0E	0753.0	54.0D	62.0			QL=4 ST=2 TYP=1
	245 SGMR	44 NS	1102.0E	1102.0	182.0D	79.0			QL=2 ST=2 TYP=1
	280 CUBA	44 NS	1255.0E		415.0D		50.0		
	235 CUBA	44 NS	1258.0E		415.0D		30.0		
	245 SGMR	44 NS	1612.0E	1631.0	358.0D	180.0			QL=2 ST=2 TYP=1
	245 SVTO	44 NS	1623.0E	1637.0	86.0D	170.0			QL=4 ST=2 TYP=1
	2840 PEKG	3 S	0011.0	0017.5	12.0	20.7			
	500 HIRA	46 C	0015.8	0017.8	2.5	70.0	30.0		WL
	245 PALE	49 GB	0016.0E	0017.0	2.0D	1000.0			QL=4 ST=2 TYP=6
	410 PALE	49 GB	0016.0E	0016.0	2.0D	610.0			QL=4 ST=2 TYP=6
	4995 PALE	8 S	0017.0E	0017.0	1.0D	37.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	0017.0E	0017.0	1.0D	34.0			QL=4 ST=2 TYP=3
	17000 NOBE	1 S	0017.7	0018.0	1.0	17.0			0,80.35GHZ:0
	410 LEAR	8 S	0055.0E	0056.0	2.0D	100.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0055.0E	0056.0	2.0D	57.0			QL=4 ST=2 TYP=3
	500 HIRA	20 GRF	0146.0	0246.5	118.0	20.0	10.0		WL
	410 LEAR	8 S	0241.0E	0241.0	U	76.0			QL=2 ST=2 TYP=3
	2950 GORK	21 GRF	0246.0E	0945.0	420.0D	28.0			
	9100 GORK	23 GRF	0248.0E	0927.0	428.0D	33.0			
	2840 PEKG	45 C	0248.0	0251.4	33.0	277.2			
	100 GORK	46 C	0249.0	0252.0		120.0			
	100 GORK	46 C	0249.0	0251.0	4.4D	200.0			
	200 GORK	46 C	0249.0E	0253.2		55.0			
	200 GORK	46 C	0249.0E	0250.6	4.1D	38.0D			
	950 GORK	4 S/F	0249.5	0252.0	13.5	126.0			
	610 LEAR	4 S/F	0250.0E	0252.0	9.0D	90.0			QL=4 ST=2 TYP=3
	15400 LEAR	8 S	0250.0E	0251.0	2.0D	110.0			QL=2 ST=2 TYP=3
	4995 LEAR	4 S/F	0250.0E	0251.0	3.0D	190.0			QL=2 ST=2 TYP=3
	8800 LEAR	4 S/F	0250.0E	0251.0	3.0D	170.0			QL=2 ST=2 TYP=3
	410 LEAR	4 S/F	0250.0E	0251.0	3.0D	120.0			QL=2 ST=2 TYP=3
	2695 LEAR	4 S/F	0250.0E	0251.0	4.0D	290.0			QL=2 ST=2 TYP=3
	1415 LEAR	4 S/F	0250.0E	0251.0	5.0D	210.0			QL=4 ST=2 TYP=3
	245 PALE	4 S/F	0250.0E	0251.0	8.0D	170.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	0250.0E	0251.0	2.0D	170.0			QL=4 ST=2 TYP=3
	410 PALE	4 S/F	0250.0E	0251.0	8.0D	190.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0250.0E	0252.0	8.0D	93.0			QL=4 ST=2 TYP=3
	1415 PALE	4 S/F	0250.0E	0251.0	4.0D	200.0			QL=4 ST=2 TYP=3
	4995 PALE	4 S/F	0250.0E	0251.0	3.0D	230.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	0250.0E	0251.0	1270.0D	300.0			QL=4 ST=1 TYP=3
	2950 GORK	3 S	0250.3	0251.3	5.4	147.0			
	9100 GORK	2 S/F	0250.7	0251.5	3.3	170.0			
	17000 NOBE	1 S	0250.8	0251.5	5.0	85.0			L
	35000 NOBE	1 S	0250.8	0251.5	5.0	98.0			L,80GHZ:0
	245 LEAR	8 S	0251.0E	0251.0	1.0D	140.0			QL=2 ST=2 TYP=3
	15400 PALE	8 S	0251.0E	0251.0	1.0D	97.0			QL=4 ST=2 TYP=3
	500 HIRA	45 C	0251.0	0251.3	11.0	60.0	15.0		WR
610 PALE	4 S/F	0258.0E	0258.0	5.0D	30.0			QL=4 ST=2 TYP=3	
245 PALE	4 S/F	0258.0E	0302.0	6.0D	86.0			QL=4 ST=2 TYP=5	
410 PALE	8 S	0258.0E	0258.0	1.0D	56.0			QL=4 ST=2 TYP=3	
4995 PALE	4 S/F	0259.0E	0301.0	4.0D	62.0			QL=4 ST=2 TYP=3	
2950 GORK	22 GRF	0300.2	0301.4	8.7	18.0				
9100 GORK	2 S/F	0300.7	0301.8	1.9	19.0				
2695 PALE	8 S	0301.0E	0301.0	U	26.0			QL=4 ST=2 TYP=3	
8800 PALE	8 S	0301.0E	0301.0	1.0D	35.0			QL=4 ST=2 TYP=3	
9100 GORK	1 S	0331.8	0332.5	2.0	14.0				
2840 PEKG	4 S/F	0332.0	0332.3	4.0	14.2				
950 GORK	21 GRF	0353.4	0426.2	41.0	4.0				
100 GORK	4 S/F	0354.7	0356.3	2.6	400.0				
2840 PEKG	45 C	0358.0	0400.3	41.0	131.5				

S O L A R R A D I O E M I S S I O N
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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
01	2695	PALE	4 S/F	0359.0E	0400.0	8.0D	100.0			QL=4 ST=3 TYP=5	
	8800	PALE	4 S/F	0359.0E	0400.0	8.0D	210.0			QL=4 ST=3 TYP=5	
	410	PALE	49 GB	0359.0E	0359.0	8.0D	570.0			QL=4 ST=3 TYP=7	
	4995	PALE	4 S/F	0359.0E	0400.0	8.0D	350.0			QL=4 ST=3 TYP=5	
	610	PALE	4 S/F	0359.0E	0359.0	7.0D	68.0			QL=4 ST=3 TYP=5	
	245	PALE	4 S/F	0359.0E	0359.0	7.0D	260.0			QL=4 ST=3 TYP=5	
	15400	PALE	4 S/F	0359.0E	0400.0	8.0D	100.0			QL=4 ST=3 TYP=5	
	2950	GORK	46	F	0359.2	0400.2	8.6	93.0			QL=4 ST=3 TYP=5
	9100	GORK	46	C	0359.2	0406.2		96.0			
	17000	NOBE	2	S/F	0359.2	0400.2	14.0	72.0			R, 80.35GHZ:SKY
	2950	GORK	46	C	0359.2	0406.3		24.0			
	9100	GORK	46	C	0359.2	0400.3	21.8	220.0			
	500	HIRA	42	SER	0359.5	0405.3	21.0	300.0			WL
	600	HUMN	2	S/F	0359.5	0359.7	0.5	48.0	20.0		
	650	GORK	4	S/F	0359.5	0359.9	1.7	52.0			
	200	GORK	41	F	0359.6	0424.1		800.0			
	950	GORK	46	C	0359.6	0418.4		114.0			
	950	GORK	46	C	0359.6	0406.4		10.0			
	950	GORK	46	C	0359.6	0359.6	31.4	24.0			
	200	GORK	41	F	0359.6	0359.7	24.9	600.0			
	950	GORK	46	C	0359.6	0413.9		37.0			
	15000	KISV	2	S/F	0404.0	0406.2	9.0	44.0			
	5900	KISV	4	S/F	0404.0	0406.5	5.0	70.0			
	4995	PALE	8	S	0411.0E	0411.0	U	23.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0413.0E	0413.0	1.0D	110.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0413.0E	0413.0	1.0D	43.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0413.0E	0413.0	1.0D	110.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	0413.0E	0413.0	1.0D	33.0			QL=2 ST=2 TYP=3
	5900	KISV	46	C	0413.0	0418.4	15.0	42.0			
	5900	KISV	46	C	0413.0	0419.6		35.0			
	650	GORK	4	S/F	0413.0	0413.7	1.2	32.0			
	5900	KISV	46	C	0413.0	0413.7		21.0			
	610	PALE	4	S/F	0417.0E	0418.0	5.0D	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0417.0E	0418.0	2.0D	220.0			QL=4 ST=2 TYP=3
	650	GORK	46	C	0417.2	0418.4	3.6	130.0			
	650	GORK	46	C	0417.2	0419.5		108.0			
	2950	GORK	46	C	0417.5	0418.3	4.6	23.0			
	2950	GORK	46	C	0417.5	0419.5		23.0			
	2695	LEAR	8	S	0418.0E	0418.0	U	30.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0418.0E	0418.0	U	250.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0418.0E	0418.0	U	25.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0418.0E	0418.0	U	38.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0418.0E	0418.0	2.0D	67.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0418.0E	0418.0	U	35.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0418.0E	0418.0	U	160.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0418.0E	0418.0	1.0D	230.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0418.0E	0418.0	2.0D	100.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0418.0E	0418.0	2.0D	41.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0418.0E	0418.0	2.0D	37.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0418.0E	0418.0	U	240.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0418.0E	0418.0	U	250.0			QL=2 ST=2 TYP=3
	600	HUMN	2	S/F	0418.0	0418.2	2.8	30.0	18.0		
	245	SVTO	8	S	0422.0E	0422.0	2.0D	210.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0429.0E	0429.0	1.0D	190.0			QL=4 ST=3 TYP=3
	2840	PEKG	22	GRF	0441.0	0441.2	13.0	5.3			
5900	KISV	2	S/F	0446.0	0447.6	3.0	13.0				
600	HUMN	27	RF	0522.0	0740.0	229.0	14.0	5.0			
245	SVTO	8	S	0523.0E	0523.0	U	62.0			QL=4 ST=2 TYP=3	
650	GORK	23	GRF	0548.0	0739.6	232.0D	30.0				
200	GORK	46	C	0554.0	0610.0	42.5	600.0				
200	GORK	46	C	0554.0	0613.9		248.0				
100	GORK	46	C	0554.2	0609.3		470.0				
100	GORK	46	C	0554.2	0602.4	22.3	265.0				
100	GORK	46	C	0554.2	0609.8		860.0				
808	ONDR	40	F	0600.0	1505.0U	630.0					
245	LEAR	8	S	0601.0E	0601.0	1.0D	150.0			QL=2 ST=2 TYP=3	
410	SVTO	8	S	0601.0E	0601.0	U	36.0			QL=4 ST=2 TYP=3	
245	SVTO	8	S	0601.0E	0601.0	1.0D	150.0			QL=2 ST=2 TYP=3	
200	HIRA	42	SER	0601.3	0612.6	14.0	600.0			SL	

S O L A R R A D I O E M I S S I O N
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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (10 ⁻²² W/m ² Hz)		
01	950	GORK	1 S	0601.4	0601.8	0.8	3.0			
	950	GORK	21 GRF	0607.6	0633.6	31.7	3.0			
	650	GORK	46 C	0607.9	0610.1	7.9	47.0			
	650	GORK	46 C	0607.9	0614.3		22.0			
	2840	PEKG	45 C	0608.0	0609.8	10.0	10.8			
	600	HUMN	2 S/F	0609.0	0610.0	1.5	27.0	19.0		
	204	IZMI	41 F	0609.0	0613.0	6.0	400.0			
	245	SVTO	49 GB	0609.0E	0612.0	6.0D	850.0			QL=2 ST=2 TYP=7
	5900	KISV	23 GRF	0609.0	0631.4	41.0	30.0			
	500	HIRA	45 C	0609.1	0609.4	5.0	300.0	30.0		SL
	950	GORK	4 S/F	0609.3	0610.0	6.6	52.0			
	1415	SVTO	8 S	0610.0E	0610.0		31.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0610.0E	0613.0	3.0D	120.0			QL=4 ST=2 TYP=3
	500	HIRA	20 GRF	0619.0	0740.1	150.0	30.0	10.0		WL
	2840	PEKG	22 GRF	0620.0	0632.0	17.0	9.3			
	100	GORK	46 C	0621.5	0635.7	65.5	500.0			
	100	GORK	46 C	0621.5	0638.9		750.0			
	9100	GORK	20 GRF	0628.9	0631.0	10.3	19.0			
	204	IZMI	5 S	0632.0	0632.1	0.4	130.0	65.0		
	100	GORK	22 GRF	0639.0	0716.9	60.0D	270.0			
	410	LEAR	8 S	0641.0E	0641.0	U	110.0			QL=4 ST=2 TYP=3
	1470	POTS	20 GRF	0700.0E	0721.0U	95.0D	8.0			
	9100	GORK	20 GRF	0715.3	0724.0	21.2	13.0			
	3000	POTS	23 GRF	0717.5U	0722.5U	88.5D	13.0			
	5900	KISV	22 GRF	0718.0	0723.9	20.0	23.0			
	9500	POTS	20 GRF	0718.5	0722.2	96.5	13.0			
	950	GORK	20 GRF	0726.4	0749.3	123.2	6.0			
	410	SVTO	8 S	0735.0E	0735.0	U	63.0			QL=4 ST=2 TYP=3
	100	GORK	8 S	0739.2	0739.3	5	300.0			
	410	LEAR	8 S	0740.0E	0741.0	2.0D	150.0			QL=4 ST=2 TYP=3
	650	GORK	3 S	0740.1	0740.6	0.8	26.0			
	410	LEAR	8 S	0747.0E	0748.0	1.0D	51.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0754.0	0800.5	7.5	2800.0			
	200	GORK	46 C	0757.5	0757.7	0.5	600.0			
	200	GORK	46 C	0757.5	0757.9		600.0			
	410	LEAR	8 S	0759.0E	0759.0	U	36.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0800.0E	0800.0	1.0D	540.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0800.0E	0800.0	1.0D	590.0			QL=2 ST=2 TYP=6
	410	SVTO	8 S	0814.0E	0814.0	1.0D	250.0			QL=2 ST=2 TYP=3
	3000	POTS	20 GRF	0858.0U	0942.0U	92.0D	24.0			
	9500	POTS	20 GRF	0904.5	0941.5	75.5	20.0			
	1470	POTS	20 GRF	0905.0U	0940.0U	86.0D	7.0			
	5900	KISV	2 S/F	0913.1	0917.4	7.2	10.0			
	5900	KISV	2 S/F	0939.5	0941.7	8.0	14.0			
	2950	GORK	1 S	0941.0	0941.7	2.3	7.5			
	9100	GORK	2 S/F	0941.1	0941.6	5.3	8.0			
	204	IZMI	42 SER	1031.0	1035.0	13.0	300.0			
	245	SGMR	8 S	1034.0E	1035.0	1.0D	130.0			QL=2 ST=2 TYP=3
	600	HUMN	27 RF	1101.0	1123.0	36.0	5.0	3.0		
	245	SVTO	8 S	1102.0E	1103.0	1.0D	90.0			QL=2 ST=2 TYP=3
	5900	KISV	22 GRF	1109.9	1116.0	9.4	7.0			
	127	TORN	47 GB	1140.0	1147.0	10.0	2100.0	560.0		
	245	SGMR	49 GB	1141.0E	1147.0	11.0D	2000.0			QL=2 ST=2 TYP=7
	245	SVTO	49 GB	1141.0E	1147.0	11.0D	1900.0			QL=4 ST=2 TYP=6
	204	IZMI	42 SER	1141.5	1147.0	14.0	4600.0			
	1470	POTS	4 S/F	1141.5U	1146.0U	9.0D	48.0			
	600	HUMN	4 S/F	1142.0	1147.5	12.5	146.0	16.0		
	33	UPIC	48 C	1142.5	1145.5	6.0				
	3000	POTS	4 S/F	1143.0U	1146.0U	8.0D	54.0			
	3013	IZMI	7 C	1143.0	1145.8	8.0	63.0	30.0		
	4995	SGMR	8 S	1144.0E	1145.0	2.0D	57.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1144.0E	1147.0	7.0D	1200.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	1144.0E	1147.0	5.0D	320.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1144.0E	1145.0	3.0D	64.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1144.0E	1147.0	8.0D	1600.0			QL=4 ST=3 TYP=6
	2695	SVTO	4 S/F	1144.0E	1145.0	5.0D	55.0			QL=4 ST=3 TYP=3
	4995	SVTO	4 S/F	1144.0E	1145.0	5.0D	54.0			QL=4 ST=3 TYP=3
	610	SVTO	4 S/F	1144.0E	1146.0	5.0D	290.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1144.0E	1145.0	4.0D	42.0			QL=4 ST=3 TYP=3

S O L A R R A D I O E M I S S I O N
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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	9500	POTS	29 PBI	1144.4	1145.8	55.6	23.0			
	1415	SGMR	4 S/F	1145.0E	1146.0	3.0D	48.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1145.0E	1146.0	735.0D	29.0			QL=2 ST=1 TYP=3
	245	SGMR	49 GB	1153.0E	1154.0	1.0D	550.0			QL=2 ST=2 TYP=6
	410	SGMR	8 S	1156.0E	1156.0	2.0D	92.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1206.0E	1206.0	U	190.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1206.0E	1206.0	U	190.0			QL=4 ST=2 TYP=3
	810	KRAK	1 S	1207.7	1208.0	0.6	4.0	2.0		
	410	SVTO	8 S	1315.0E	1316.0	1.0D	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1401.0E	1401.0	U	60.0			QL=4 ST=2 TYP=3
	9500	POTS	4 S/F	1414.8	1421.2	18.2	42.0			
	6700	CUBA	23 GRF	1417.0	1422.0	19.0	32.0	16.0		8R
	9500	POTS	42 SER	1437.5U	1441.8	6.0D	14.0			
	15400	SVTO	49 GB	1457.0E	1508.0	65.0D	45000.0			QL=4 ST=2 TYP=6
	8800	SVTO	49 GB	1457.0E	1510.0	65.0D	14000.0			QL=4 ST=2 TYP=6
	4995	SVTO	49 GB	1457.0E	1505.0	60.0D	8500.0			QL=4 ST=3 TYP=6
	4995	SGMR	49 GB	1457.0E	1505.0	73.0D	7900.0			QL=4 ST=2 TYP=7
	8800	SGMR	49 GB	1457.0E	1508.0	73.0D	20000.0			QL=4 ST=2 TYP=7
	15400	SGMR	49 GB	1457.0E	1507.0	75.0D	54000.0			QL=2 ST=2 TYP=7
	6700	CUBA	49 GB	1457.2	1500.3	45.3	1172.0			31R
	15000	CUBA	47 GB	1457.5	1508.0	37.5	37380.0			COMPLEX POL
	2800	PENT	47 GB	1457.7	1505.6	44.5	4269.0	1280.0		
	2695	SVTO	49 GB	1458.0E	1503.0	59.0D	5400.0			QL=4 ST=3 TYP=6
	600	HUMN	45 C	1458.0	1503.0	77.0	746.0	40.0		
	2695	SGMR	49 GB	1458.0E	1505.0	72.0D	5500.0			QL=4 ST=2 TYP=7
	1415	SVTO	49 GB	1459.0E	1505.0	29.0D	3200.0			QL=4 ST=3 TYP=6
	1415	SGMR	49 GB	1459.0E	1505.0	35.0D	3500.0			QL=4 ST=2 TYP=7
	808	ONDR	49 GB	1459.0	1502.5U	38.0				
	33	UPIC	32 ABS	1500.0	1508.0	51.5				
	610	SGMR	49 GB	1501.0E	1502.0	55.0D	5400.0			QL=4 ST=2 TYP=7
	610	SVTO	49 GB	1502.0E	1503.0	16.0D	4000.0			QL=4 ST=3 TYP=6
	410	SGMR	49 GB	1502.0E	1503.0	68.0D	5000.0			QL=4 ST=2 TYP=7
	245	SVTO	49 GB	1502.0E	1507.0	62.0D	20000.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1502.0E	1507.0	70.0D	21000.0			QL=2 ST=2 TYP=7
	410	SVTO	49 GB	1503.0E	1503.0	47.0D	4500.0			QL=4 ST=3 TYP=6
	280	CUBA	25 R	1504.0E	1526.0	289.0D	145.0			
	235	CUBA	49 GB	1504.0E	1508.0U	8.0D	8758.0D			
	280	CUBA	49 GB	1504.0E	1508.0U	8.0D	68640.0D			
	235	CUBA	25 R	1504.0E	1526.0U	289.0D	88.0D			
	15000	CUBA	30 PBI	1540.0	1540.0	116.0	154.0	77.0		4L
	2800	PENT	29 PBI	1542.3	1542.3	75.0	20.9	10.0		
	2800	PENT	4 S/F	1542.3	1551.4	33.6	68.7	20.0		
	6700	CUBA	30 PBI	1542.5	1542.5	67.5	50.0	25.0		13L
	6700	CUBA	3 S	1547.9	1550.5	9.6	92.0	46.0		17L
	15000	CUBA	40 F	1548.1	1604.7	21.2	111.0	50.0		17L
	6700	CUBA	46 C	1601.3	1603.9	6.7	85.0	22.0		6L
	245	SVTO	8 S	1604.0E	1605.0	1.0D	240.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	1604.0E	1604.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1604.0E	1604.0	1.0D	350.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1604.0E	1604.0	3.0D	210.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1604.0E	1604.0	4.0D	140.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1604.0E	1604.0	1.0D	59.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1607.0E	1607.0	U	110.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1610.0E	1611.0	3.0D	240.0			QL=2 ST=2 TYP=3
	6700	CUBA	2 S/F	1610.0	1611.2	3.0	11.0	5.0		8L
	610	SGMR	8 S	1611.0E	1611.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1617.0E	1617.0	1.0D	77.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1620.0E	1621.0	1.0D	34.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1620.0E	1622.0	2.0D	90.0			QL=2 ST=2 TYP=3
	6700	CUBA	8 S	1652.8	1659.9		41.0	20.0		WR
	9400	HUAN	23 GRF	1717.2	1747.0	92.4	21.8	8.0		
	9400	HUAN	45 C	1728.3	1734.1	13.7	85.4	31.1		
	6700	CUBA	20 GRF	1729.0	1734.0	13.0	40.0	20.0		
	15000	CUBA	3 S	1730.0	1734.5	9.6	80.0	40.0		11L
	15400	PALE	4 S/F	1731.0E	1734.0	9.0D	100.0			20L
	8800	PALE	4 S/F	1733.0E	1734.0	3.0D	70.0			QL=4 ST=3 TYP=3
	8800	SVTO	8 S	1733.0E	1734.0	1.0D	55.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1734.0E	1734.0	U	54.0			QL=4 ST=2 TYP=3
	15000	CUBA	21 GRF	1816.0	1934.0	109.0D	44.0			00R 2005 OFF

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	9400	HUAN	23 GRF	1910.0	1927.2	53.0	12.7	4.0		
	410	PALE	49 GB	1930.0E	1931.0	2.0D	550.0			QL=4 ST=2 TYP=6
	1415	PALE	4 S/F	1930.0E	1931.0	3.0D	37.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1930.0E	1931.0	2.0D	87.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1930.0E	1931.0	3.0D	75.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1930.0E	1932.0	3.0D	31.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1930.0E	1932.0	3.0D	52.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1930.0E	1931.0	2.0D	340.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1930.0E	1931.0	4.0D	64.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1930.0E	1931.0	5.0D	97.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1930.0E	1932.0	8.0D	220.0			QL=2 ST=2 TYP=3
	4995	SGMR	4 S/F	1930.0E	1932.0	3.0D	27.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	1930.3	1931.4	4.3	120.7	24.0		
	9400	HUAN	4 S/F	1930.6	1932.0	4.1	50.9	12.7		
	15400	PALE	8 S	1931.0E	1932.0	2.0D	26.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1931.0E	1932.0	2.0D	49.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1931.0E	1931.0	U	32.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1931.0E	1932.0	1.0D	27.0			QL=4 ST=2 TYP=3
	6700	CUBA	2 S/F	1931.1	1932.2	2.7	42.0	20.0		14R
	15000	CUBA	2 S/F	1931.1	1932.2	2.5	39.0	19.0		21R
9400	HUAN	1 S	2105.3	2108.7	6.5	5.4	1.4			
02	100	GORK	44 NS	0248.0E		438.0D		5.0		
	200	GORK	44 NS	0324.0E		366.0D		5.0		
	204	IZMI	43 NS	0600.0		120.0	10.0			
	260	ONDR	44 NS	0600.0E	1600.0U	640.0D				
	127	TORN	43 NS	0633.0	1209.4	507.0	60.0	10.0		V=1
	410	LEAR	44 NS	0643.0E	0652.0	28.0D	110.0			QL=4 ST=3 TYP=1
	245	LEAR	44 NS	0647.0E	0653.0	7.0D	60.0			QL=4 ST=3 TYP=1
	410	SVTO	44 NS	0650.0E	0650.0	54.0D	120.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0653.0E	0653.0	21.0D	56.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		320.0D		22.0		
	235	CUBA	44 NS	1300.0E		320.0D		33.0		
	245	SGMR	44 NS	1454.0E	1454.0	386.0D	190.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1827.0E	2101.0	176.0D	320.0			QL=4 ST=2 TYP=1
	2840	PEKG	5 S	0029.0	0032.1	6.0	10.3			
	2840	PEKG	20 GRF	0235.0	0237.0	16.0	5.7			
	9100	GORK	23 GRF	0300.0E	0335.5	102.0D	10.0			
	2840	PEKG	20 GRF	0327.0	0330.9	13.0	4.7			
	2950	GORK	20 GRF	0330.0	0333.8	12.3	44.0			
	9100	GORK	1 S	0334.3	0334.5	1.2	12.0			
	245	LEAR	4 S/F	0343.0E	0345.0	3.0D	120.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0343.0E	0345.0	2.0D	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0343.0E	0345.0	2.0D	94.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0357.0E	0357.0	1.0D	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0357.0E	0357.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0357.0E	0357.0	U	73.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0357.0E	0357.0	1.0D	180.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0357.0E	0357.0	2.0D	81.0			QL=2 ST=2 TYP=3
	600	HUMN	2 S/F	0357.0	0357.5	0.8	42.0	12.0		
	650	GORK	4 S/F	0357.2	0358.0	1.1	85.0			
	950	GORK	2 S/F	0357.3	0357.9	0.9	16.0			
	950	GORK	2 S/F	0536.1	0536.3	0.4	12.0			
	2850	CRIM	24 R	0556.0	0620.0		4.0			
	536	ONDR	40 F	0600.0	0851.0	470.0	207.0			
	410	LEAR	8 S	0607.0E	0607.0	1.0D	81.0			QL=4 ST=2 TYP=3
	500	HIRA	27 RF	0607.8	0652.5	75.0	15.0	10.0		0
	410	LEAR	4 S/F	0610.0E	0611.0	3.0D	170.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0611.0E	0611.0	1.0D	190.0			QL=4 ST=2 TYP=3
650	GORK	22 GRF	0628.7	0648.7	33.2	5.0				
9500	POTS	21 GRF	0734.4	0906.0	136.0	14.0				
3000	POTS	21 GRF	0735.0	0907.0	145.0	15.0				
5900	KISV	46 C	0738.2	0742.4		153.0				
5900	KISV	46 C	0738.2	0741.4	9.1	153.0				
9100	GORK	23 GRF	0738.7	0906.0U	111.3	19.0				
2950	GORK	4 S/F	0739.8	0743.1	5.8	33.0				
2950	GORK	29 PBI	0739.8	0745.6	105.0D	20.0				
8800	LEAR	4 S/F	0740.0E	0741.0	5.0D	150.0			QL=4 ST=2 TYP=3	
4995	LEAR	4 S/F	0740.0E	0742.0	7.0D	140.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	15400	LEAR	4 S/F	0740.0E	0741.0	14.0D	140.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	0740.0E	0742.0	10.0D	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0740.0E	0741.0	10.0D	160.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0740.2	0741.3	6.6	173.0			
	9100	GORK	46 C	0740.2	0742.4		136.0			
	9500	POTS	29 PBI	0740.3	0741.0	28.2	138.0			
	15000	KISV	46 C	0740.4	0741.1		94.0			
	3000	POTS	42 SER	0740.4	0743.1	17.6	44.0			
	15000	KISV	46 C	0740.4	0741.3	4.9	115.0			
	15000	KISV	46 C	0740.4	0742.4		60.0			
	3013	IZMI	7 C	0740.5	0743.0	12.0	41.0	20.0		
	2695	LEAR	4 S/F	0741.0E	0743.0	5.0D	37.0			QL=2 ST=2 TYP=3
	33	UPIC	32 ABS	0741.5	0746.0	15.0				
	950	GORK	1 S	0743.4	0743.5	2.1	5.0			
	650	GORK	22 GRF	0808.7	0813.4	11.9	25.0			
	410	LEAR	8 S	0843.0E	0843.0	U	250.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0843.0E	0843.0	U	490.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0850.0E	0851.0	5.0D	140.0			QL=4 ST=3 TYP=3
	410	LEAR	49 GB	0850.0E	0851.0	5.0D	2200.0			QL=4 ST=3 TYP=6
	810	KRAK	8 S	0851.0	0851.0	0.8	33.0			
	610	LEAR	4 S/F	0851.0E	0851.0	4.0D	88.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0851.0E	0851.0	U	140.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0851.0E	0851.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0851.0E	0851.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0851.0E	0851.0	1.0D	2500.0			QL=4 ST=2 TYP=6
	950	GORK	4 S/F	0851.3	0851.4	1.2	40.0			
	650	GORK	8 S	0851.3	0851.5	1.1	110.0			
	204	IZMI	5 S	0851.5	0851.6	0.4	390.0	190.0		
	245	SVTO	8 S	1020.0E	1020.0	U	73.0			QL=4 ST=2 TYP=3
	430	KRAK	42 SER	1040.5	1047.0	10.0	20.0			
	810	KRAK	1 S	1042.5	1043.0	1.0	7.0	3.0		
	3013	IZMI	5 S	1042.5	1043.8	12.0	43.0	20.0		
	245	SGMR	4 S/F	1043.0E	1045.0	3.0D	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1043.5	1046.0	3.5	67.0			
	33	UPIC	2 S/F	1110.5	1110.7	0.5				
	245	SGMR	4 S/F	1148.0E	1149.0	3.0D	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1149.0E	1149.0	2.0D	170.0			QL=4 ST=2 TYP=5
	204	IZMI	41 F	1149.0	1151.2	3.0	75.0			
	245	SGMR	8 S	1236.0E	1236.0	1.0D	260.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1237.0E	1237.0	U	270.0			QL=4 ST=2 TYP=3
	3000	POTS	46 C	1348.0	1414.4	162.0D	166.0			
	9500	POTS	46 C	1349.0	1414.2	161.0D	94.0			
	6700	CUBA	21 GRF	1350.0	1429.0	400.0D	70.0			
	1470	POTS	46 C	1350.0U	1522.0U	160.0D	780.0			12L RAIN 2030 0
	5900	KISV	4 S/F	1350.0	1355.1	6.9	103.0			
	808	ONDR	49 GB	1350.0	1414.1	66.0	225.0			
	536	ONDR	49 GB	1350.0	1416.2	75.0	432.0			
	5900	KISV	29 PBI	1350.0	1400.7		78.0			
	2695	SGMR	4 S/F	1351.0E	1354.0	61.0D	280.0			QL=4 ST=2 TYP=3
	4995	SGMR	20 GRF	1352.0E	1422.0	62.0D	150.0			QL=4 ST=2 TYP=2
	15000	CUBA	21 GRF	1352.0	1422.0	141.0	86.0	43.0		22L
	15000	KISV	2 S/F	1352.4	1355.6	6.7	35.0			
	600	HUMN	49 GB	1352.9	1648.0	277.0	571.0	111.0		
	1415	SGMR	49 GB	1353.0E	1422.0	57.0D	850.0			QL=4 ST=2 TYP=7
	8800	SGMR	4 S/F	1353.0E	1414.0	59.0D	110.0			QL=4 ST=2 TYP=5
	15400	SGMR	4 S/F	1353.0E	1422.0	59.0D	71.0			QL=4 ST=2 TYP=5
	1415	SVTO	49 GB	1353.0E	1422.0	57.0D	780.0			QL=4 ST=2 TYP=7
	2695	SVTO	49 GB	1353.0E	1354.0	61.0D	3200.0			QL=4 ST=2 TYP=7
	8800	SVTO	4 S/F	1353.0E	1413.0	69.0D	100.0			QL=4 ST=2 TYP=5
	4995	SVTO	4 S/F	1353.0E	1422.0	66.0D	240.0			QL=4 ST=2 TYP=5
	15000	CUBA	1 S	1353.5	1355.9	4.7	36.0	13.0		57L
	6700	CUBA	46 C	1354.0	1356.0	11.0D	42.0			7L 1400-1405 DO
	410	SGMR	49 GB	1354.0E	1418.0	58.0D	1700.0			QL=4 ST=2 TYP=7
	610	SGMR	4 S/F	1354.0E	1413.0	58.0D	230.0			QL=4 ST=2 TYP=5
	610	SVTO	4 S/F	1354.0E	1422.0	69.0D	260.0			QL=4 ST=2 TYP=5
	410	SVTO	49 GB	1355.0E	1418.0	83.0D	2100.0			QL=4 ST=2 TYP=7
	280	CUBA	6 S	1357.3	1357.8	1.7	61.0			
	2800	PENT	22 GRF	1400.0	1407.5	475.0	55.1	27.0		
	245	SGMR	49 GB	1405.0E	1412.0	49.0D	1100.0			QL=4 ST=2 TYP=7

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
02	235	CUBA	48 C	1406.0	1407.5U	8.0	521.0			
	280	CUBA	48 C	1406.0	1417.6	13.0	5320.0			
	245	SVTO	49 GB	1407.0E	1412.0	80.0D	820.0			QL=4 ST=2 TYP=7
	2800	PENT	4 S/F	1409.8	1414.3	8.9	146.2	43.0		
	127	TORN	27 RF	1411.0	1442.8	49.0D	530.0D	60.0D		
	6700	CUBA	2 S/F	1412.0	1414.4	5.8	39.0	19.0		27L
	15400	SVTO	4 S/F	1415.0E	1415.0	46.0D	67.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1418.0	1439.5	24.5				
	15000	CUBA	1 S	1418.2	1422.2		26.0	13.0		53L
	2800	PENT	4 S/F	1418.7	1423.0	6.6	88.6	26.0		
	6700	CUBA	1 S	1420.6	1422.3	4.4	18.0	9.0		WR
	2800	PENT	4 S/F	1437.2	1442.7	9.2	67.3	13.0		
	6700	CUBA	1 S	1443.0	1444.8	5.0	20.0	10.0		WR
	2800	PENT	3 S	1505.5	1506.4	5.2	17.6	5.0		
	536	ONDR	46 C	1510.0	1514.0	7.5	279.0			
	410	SGMR	49 GB	1513.0E	1515.0	4.0D	840.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1525.0E	1525.0	U	760.0			QL=2 ST=2 TYP=6
	536	ONDR	49 GB	1540.0	1601.0	60.0U	800.0			
	610	SVTO	49 GB	1549.0E	1648.0	121.0D	1200.0			QL=4 ST=2 TYP=7
	410	SVTO	49 GB	1550.0E	1715.0	120.0D	15000.0			QL=4 ST=2 TYP=7
	245	SVTO	49 GB	1550.0E	1648.0	120.0D				QL=4 ST=2 TYP=7
	610	SGMR	49 GB	1550.0E	1712.0	147.0D	2300.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1550.0E	1648.0	175.0D				QL=2 ST=2 TYP=7
	410	SGMR	49 GB	1550.0E	1715.0	260.0D	8700.0			QL=4 ST=2 TYP=7
	808	ONDR	49 GB	1550.0	1554.0U	28.5				
	235	CUBA	49 GB	1550.0	1720.0U	210.0U	24705.0D			
	1415	SGMR	49 GB	1553.0E	1555.0	8.0D	6300.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1553.0E	1555.0	9.0D	6700.0			QL=4 ST=2 TYP=7
	2800	PENT	3 S	1554.5	1557.1	6.1	11.5	3.0		
	610	PALE	49 GB	1626.0E	1712.0	122.0D	2400.0			QL=4 ST=2 TYP=7
	245	PALE	49 GB	1626.0E	1648.0	121.0D				QL=4 ST=2 TYP=7
	410	PALE	49 GB	1626.0E	1715.0	224.0D	16000.0			QL=4 ST=2 TYP=7
	9400	HUAN	22 GRF	1720.8	1750.0	84.3	11.8	4.1		
	245	PALE	49 GB	2008.0E	2025.0	44.0D	14000.0			QL=2 ST=2 TYP=6
	9400	HUAN	21 GRF	2011.1	2046.7	67.7	13.5	7.4		
	245	SGMR	49 GB	2016.0E	2025.0	64.0D	13000.0			QL=2 ST=2 TYP=6
	9400	HUAN	4 S/F	2026.0	2029.4		59.7			
	9400	HUAN	4 S/F	2026.0	2028.6	4.9	62.3	22.9		
	15000	CUBA	2 S/F	2026.2	2028.0	20.0	20.0			42L 2030 OFF
	610	PALE	8 S	2027.0E	2029.0	2.0D	140.0			QL=4 ST=2 TYP=3
15400	PALE	4 S/F	2027.0E	2029.0	3.0D	86.0			QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	2027.0E	2029.0	7.0D	130.0			QL=4 ST=2 TYP=3	
410	PALE	4 S/F	2027.0E	2029.0	16.0D	200.0			QL=2 ST=2 TYP=5	
8800	PALE	8 S	2028.0E	2029.0	1.0D	37.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	2028.0E	2028.0	2.0D	41.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	2028.0E	2029.0	1.0D	150.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	2028.0E	2029.0	2.0D	61.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2257.0E	2257.0	U	62.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2323.0E	2324.0	1.0D	53.0			QL=4 ST=2 TYP=3	
15400	PALE	8 S	2323.0E	2324.0	1.0D	150.0			QL=4 ST=2 TYP=3	
17000	NOBE	3 S	2323.6	2324.1	3.0	172.0			0	
35000	NOBE	3 S	2323.6	2324.1	2.0	413.0			L,80GHZ:0	
03	260	ONDR	44 NS	0600.0E	1339.0	630.0D	153.0			
	235	CUBA	44 NS	1300.0E		460.0D		18.0		
	280	CUBA	44 NS	1300.0E		460.0D		27.0		
	245	SGMR	44 NS	1443.0E	1457.0	557.0D	94.0			QL=2 ST=3 TYP=1
	17000	NOBE	1 S	0126.2	0126.6	2.0	22.0			0,80.35GHZ:0
	2950	GORK	20 GRF	0330.0	0333.8	12.3	44.0			
	9100	GORK	22 GRF	0353.3	0404.5	26.5	8.0			
	2840	PEKG	20 GRF	0401.0	0405.1	19.0	5.6			
	2850	CRIM	3 S	0525.2	0526.4	2.0	46.0	12.0		
	2850	CRIM	1 S	0550.7	0551.8	2.9	13.0	4.0		
	17000	NOBE	20 GRF	0555.5	0557.2	12.5	24.0			0,80.35GHZ:0
	204	IZMI	42 SER	0609.5	0725.5	120.0	155.0			
	950	GORK	4 S/F	0610.5	0610.7	0.4	43.0			
	650	GORK	8 S	0610.5	0610.7	1.6	26.0			
	15000	KISV	2 S/F	0732.9	0733.7	1.7	43.0			
	15400	LEAR	8 S	0733.0E	0733.0	1.0D	63.0			QL=2 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
03	9500	POTS	2 S/F	0733.2	0733.5	1.2	8.0			
	2950	GORK	4 S/F	0739.8	0743.1	5.8	33.0			
	2950	GORK	29 PBI	0739.8	0745.6	105.0D	20.0			
	15000	KISV	1 S	0807.3	0807.7	0.8	20.0			
	430	KRAK	42 SER	0810.5E	1014.3	317.5D	28.0			
	950	GORK	20 GRF	0825.0	0957.9	170.0	9.0			
	204	IZMI	41 F	0926.5	0926.8	1.0	58.0			
	410	SVTO	8 S	0935.0E	0936.0	2.0D	880.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0941.0E	0942.0	1.0D	200.0			QL=4 ST=2 TYP=3
	536	ONDR	40 F	1000.0	1006.0	390.0	26.0			
	9100	GORK	21 GRF	1010.8	1042.0U	170.2	9.0			
	15000	KISV	4 S/F	1035.2	1035.3	2.3	72.0			
	15400	SGMR	8 S	1105.0E	1105.0	1.0D	71.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1105.0E	1105.0	1.0D	64.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	1105.2	1105.5	1.9	19.0			
	9500	POTS	4 S/F	1105.2	1105.5	2.3	29.0			
	950	GORK	20 GRF	1157.2	1214.2	124.0D	10.0			
	9400	HUAN	2 S/F	1257.2	1300.0	9.0	6.0	3.8		
	9400	HUAN	1 S	1320.3	1323.0	5.3	12.0	4.0		
	9500	POTS	4 S/F	1322.5	1323.0	1.7	13.0			
	9400	HUAN	1 S	1411.3	1415.0	6.2	6.0	3.6		
	15000	CUBA	1 S	1753.4	1754.0	2.0	26.0	13.0		12L
	245	PALE	8 S	1859.0E	1900.0	1.0D	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1859.0E	1900.0	1.0D	72.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1901.0E	1902.0	2.0D	180.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1902.0E	1902.0	1.0D	350.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1902.0E	1902.0	1.0D	100.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1902.0E	1902.0	1.0D	55.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1902.0E	1902.0	1.0D	58.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1902.0E	1902.0	U	270.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1902.0E	1902.0	U	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1902.0E	1902.0	U	85.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1902.0	1902.1	7.8	43.9	9.0		
	245	SGMR	8 S	1913.0E	1913.0	U	53.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1954.0E	1954.0	1.0D	50.0			QL=4 ST=2 TYP=3
	2800	PENT	28 PRE	2048.9	2057.2	8.3	4.0	2.0		
	15400	PALE	4 S/F	2056.0E	2059.0	4.0D	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2056.0E	2059.0	6.0D	71.0			QL=2 ST=2 TYP=3
	8800	PALE	8 S	2057.0E	2059.0	2.0D	34.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2057.0E	2057.0	2.0D	33.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2057.0E	2057.0	3.0D	52.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2057.0E	2057.0	2.0D	36.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	2057.2	2057.7	52.0	31.3	6.0		
	15400	SGMR	8 S	2058.0E	2059.0	1.0D	62.0			QL=4 ST=2 TYP=3
	17000	NOBE	4 S/F	2207.1	2208.1	8.0	73.0			0,80.35GHZ:0
17000	NOBE	3 S	2303.1	2304.8	9.0	73.0			0,80.35GHZ:0	
04	100	GORK	43 NS	0401.0		89.0D		11.0		
	204	IZMI	43 NS	0600.0		360.0	25.0			
	260	ONDR	44 NS	0600.0E	1118.0	630.0D	43.0			
	127	TORN	44 NS	0620.0E		520.0D		30.0		V=1
	235	CUBA	44 NS	1255.0E		455.0D		21.0		
	280	CUBA	44 NS	1255.0E		455.0D		28.0		
	2695	PALE	4 S/F	0000.0E	0001.0	3.0D	170.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0000.0E	0001.0	2.0D	84.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0000.0E	0001.0	3.0D	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0000.0E	0001.0	2.0D	33.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0000.0E	0001.0	7.0D	270.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0100.0E	0103.0	6.0D	330.0			QL=2 ST=2 TYP=3
	35000	NOBE	1 S	0101.0	0103.5	7.0	89.0			0, 80GHZ:0
	17000	NOBE	7 C	0101.0	0103.5	11.0	297.0			0
	8800	LEAR	4 S/F	0102.0E	0103.0	3.0D	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0102.0E	0103.0	2.0D	100.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0102.0E	0103.0	2.0D	300.0			QL=2 ST=2 TYP=3
	2840	PEKG	2 S/F	0102.0	0103.8	5.0	5.2			
	15400	LEAR	4 S/F	0149.0E	0150.0	7.0D	99.0			QL=2 ST=2 TYP=3
	17000	NOBE	4 S/F	0149.7	0150.8	19.0	100.0			L,80.35GHZ:0
15400	PALE	8 S	0150.0E	0150.0	2.0D	72.0			QL=2 ST=2 TYP=3	
15400	PALE	8 S	0200.0E	0201.0	1.0D	80.0			QL=2 ST=3 TYP=3	

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
04	8800	PALE	8 S	0200.0E	0201.0	1.0D	25.0			QL=2 ST=2 TYP=3
	17000	NOBE	4 S/F	0236.7	0248.5	19.0	54.0			0,80.35GHZ:0
	9100	GORK	23 GRF	0245.0U	0557.8	548.6D	86.0			
	9100	GORK	2 S/F	0245.4	0248.7	9.0	35.0			
	2840	PEKG	28 PRE	0246.0	0336.0	51.0	14.0			
	15400	LEAR	8 S	0315.0E	0315.0	1.0D	72.0			QL=2 ST=2 TYP=3
	17000	NOBE	28 PRE	0315.7	0316.0	21.1	45.0			0
	17000	NOBE	49 GB	0336.8	0341.3	140.0	73600.0			L
	2950	GORK	30 PBI	0336.9	0454.0	402.0	218.0			
	2950	GORK	49 GB	0336.9	0349.2		6600.0			
	2950	GORK	49 GB	0336.9	0339.9	77.0	11660.0			
	1415	PALE	49 GB	0337.0E	0341.0	76.0D	6200.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	0337.0E	0339.0	76.0D	16000.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0337.0E	0339.0	76.0D	11000.0			QL=4 ST=2 TYP=6
	8800	PALE	49 GB	0337.0E	0348.0	76.0D	30000.0			QL=2 ST=2 TYP=7
	15400	PALE	49 GB	0337.0E	0339.0	76.0D	49000.0			QL=2 ST=2 TYP=7
	2840	PEKG	47 GB	0337.0	0340.0D	161.0D	6323.4			
	9100	GORK	47 GB	0337.0	0348.6	140.8	47000.0			
	35000	NOBE	49 GB	0337.1		100.0				L
	80000	NOBE	49 GB	0337.1	0341.2	100.0	135680.0			L
	950	GORK	30 PBI	0337.4	0451.0	492.0D	85.0			
	950	GORK	47 GB	0337.4	0341.5	73.6	6240.0			
	650	GORK	47 GB	0337.4	0421.6		1980.0			
	650	GORK	30 PBI	0337.4	0452.6	490.0D	82.0			
	650	GORK	47 GB	0337.4	0341.8	75.2	3450.0			
	500	HIRA	48 C	0337.5	0442.8		2100.0			WR
	500	HIRA	48 C	0337.5	0341.9	144.0	2300.0	200.0		WR
	610	PALE	49 GB	0338.0E	0341.0	75.0D	3900.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0338.0E	0342.0	75.0D	2200.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	0338.0E	0340.0	80.0D	4700.0			QL=2 ST=2 TYP=7
	15400	SVTO	49 GB	0338.0E	0341.0	96.0D	42000.0			QL=2 ST=2 TYP=7
	2695	SVTO	49 GB	0338.0E	0340.0	124.0D	7900.0			QL=2 ST=2 TYP=7
	4995	SVTO	49 GB	0338.0E	0350.0	151.0D	3500.0			QL=2 ST=2 TYP=7
	8800	SVTO	49 GB	0338.0E	0426.0	151.0D	2400.0			QL=4 ST=2 TYP=7
	245	PALE	49 GB	0339.0E	0342.0	74.0D	37000.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	0339.0E	0341.0	78.0D	2600.0			QL=2 ST=2 TYP=7
	410	SVTO	49 GB	0339.0E	0355.0	88.0D	3900.0			QL=2 ST=2 TYP=7
	245	SVTO	49 GB	0339.0E	0340.0	95.0D	28000.0			QL=2 ST=2 TYP=7
	200	HIRA	48 C	0339.3	0343.3U	117.0	70000.0D	600.0D		WR
	100	GORK	47 GB	0339.5	0344.1	21.8	7230.0			
	100	GORK	47 GB	0339.5	0351.4		20100.0			
	15400	LEAR	49 GB	0340.0E	0341.0	112.0D	69000.0			QL=2 ST=2 TYP=7
	245	LEAR	49 GB	0340.0E	0340.0	112.0D	32000.0			QL=2 ST=2 TYP=7
	2695	LEAR	49 GB	0340.0E	0340.0	112.0D	10000.0			QL=2 ST=2 TYP=7
	4995	LEAR	49 GB	0340.0E	0349.0	112.0D	17000.0			QL=4 ST=2 TYP=7
	8800	LEAR	49 GB	0340.0E	0348.0	112.0D	33000.0			QL=4 ST=2 TYP=7
	1415	LEAR	49 GB	0340.0E	0341.0	112.0D	6300.0			QL=4 ST=2 TYP=7
	610	LEAR	49 GB	0340.0E	0421.0	112.0D	2100.0			QL=4 ST=2 TYP=7
	410	LEAR	49 GB	0340.0E	0423.0	112.0D	1500.0			QL=4 ST=2 TYP=7
	100	HIRA	48 C	0340.0	0345.4	9.3	2000.0	800.0		
245	LEAR	8 S	0557.0E	0557.0	U	81.0			QL=2 ST=2 TYP=3	
536	ONDR	40 F	0600.0	0821.0	630.0	47.0				
2840	PEKG	45 C	0604.0	0614.8	30.0	160.2				
15400	SVTO	4 S/F	0612.0E	0615.0	6.0D	79.0			QL=4 ST=2 TYP=3	
9100	GORK	2 S/F	0613.5	0615.5	3.3	93.0				
2950	GORK	4 S/F	0613.5	0614.7	7.0	94.0				
3013	I2MI	7 C	0613.5	0614.7	3.5	80.0	40.0			
650	GORK	4 S/F	0613.9	0615.1	1.6	140.0				
1415	LEAR	8 S	0614.0E	0615.0	2.0D	36.0			QL=4 ST=2 TYP=3	
4995	LEAR	8 S	0614.0E	0615.0	2.0D	77.0			QL=4 ST=2 TYP=3	
8800	LEAR	8 S	0614.0E	0615.0	2.0D	57.0			QL=4 ST=2 TYP=3	
2695	LEAR	8 S	0614.0E	0614.0	2.0D	90.0			QL=2 ST=2 TYP=3	
808	ONDR	2 S/F	0614.0	0616.0	6.5	31.0				
8800	SVTO	8 S	0614.0E	0615.0	2.0D	94.0			QL=4 ST=2 TYP=3	
2695	SVTO	4 S/F	0614.0E	0614.0	7.0D	120.0			QL=4 ST=2 TYP=3	
950	GORK	3 S	0614.1	0615.2	6.4	30.0				
4995	SVTO	4 S/F	0615.0E	0615.0	4.0D	130.0			QL=4 ST=2 TYP=3	
9100	GORK	29 PBI	0616.8	0616.8	10.2	26.0				
430	KRAK	42 SER	0653.5E	0843.7	367.5D	51.0				

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
04	2850	CRIM	1 S	0718.8	0719.5	2.1	7.8	3.0		
	1470	POTS	40 F	0728.7	0730.1	7.8	8.0			
	8800	SVTO	4 S/F	0847.0E	0849.0	5.0D	120.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	0946.6	0947.0U	6.5	11700.0D	370.0		
	204	IZMI	41 F	1142.2	1142.4	1.0	120.0			
	9100	GORK	1 S	1205.9	1206.2	0.7	12.0			
	6700	CUBA	23 GRF	1321.0	1324.0	22.0	9.0	4.0		WR
	5900	KISV	46 C	1348.0	1355.0	11.6	18.0			
	6700	CUBA	21 GRF	1348.0	1359.0	22.0	6.0	3.0		WR
	5900	KISV	46 C	1348.0	1349.1		8.0			
	5900	KISV	46 C	1348.0	1350.8		10.0			
	1470	POTS	20 GRF	1352.0	1355.0	5.0	4.0			
	9400	HUAN	1 S	1353.7	1355.2	5.5	7.6	2.9		
	3000	POTS	4 S/F	1354.0	1355.4	3.7	11.0			
	6700	CUBA	1 S	1354.8	1355.1	1.7	6.0	3.0		WR
	9400	HUAN	2 S/F	1613.3	1620.4	10.9	15.3	2.7		
	6700	CUBA	21 GRF	1716.0	1726.0	54.0	5.0	2.0		WR
	15000	CUBA	21 GRF	1720.0	1829.0	190.0D	50.0			1720 POL OFF
	6700	CUBA	1 S	1722.8	1723.3	2.2	5.0	2.0		50R
	9400	HUAN	22 GRF	1808.7	1829.4	63.7	10.8	2.9		
	15000	CUBA	1 S	1946.4	1949.1	5.7	21.0	11.0		POL OFF
	4995	PALE	4 S/F	2009.0E	2011.0	4.0D	100.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	2009.5	2011.6	8.5	49.0	12.0		44R
	9400	HUAN	4 S/F	2009.8	2012.0		57.0			
	2800	PENT	1 S	2009.8	2012.4	5.6	6.8	2.0		
	9400	HUAN	4 S/F	2009.8	2011.4	12.1	55.1	19.0		
	15000	CUBA	2 S/F	2010.9	2012.4	6.7	69.0	35.0		POL OFF
	15400	PALE	8 S	2011.0E	2012.0	1.0D	53.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2011.0E	2011.0	U	29.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2011.0E	2011.0	2.0D	110.0			QL=2 ST=2 TYP=3
	15400	SGMR	8 S	2011.0E	2012.0	1.0D	78.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2011.0E	2011.0	1.0D	49.0			QL=4 ST=2 TYP=3
	2800	PENT	2 S/F	2018.6	2020.3	4.5	7.9	2.0		
	245	PALE	8 S	2023.0E	2023.0	U	67.0			QL=4 ST=2 TYP=3
17000	NOBE	1 S	2219.9	2220.7	3.0	33.0			L,80.35GHZ:0	
4995	PALE	4 S/F	2359.0E	2401.0	5.0D	370.0			QL=4 ST=2 TYP=3	
2800	PENT	3 S	2359.4	2401.1	10.6	157.1	31.0			
05	200	GORK	43 NS	0315.0		33.0		5.0		
	204	IZMI	43 NS	0600.0		360.0	10.0			
	260	ONDR	44 NS	0600.0E	0648.5	113.0D	52.0			
	127	TORN	43 NS	0800.0		420.0		5.0		V=1
	280	CUBA	44 NS	1307.0E		464.0D		25.0		
	235	CUBA	44 NS	1307.0E		464.0D		18.0		
	500	HIRA	46 C	0000.0	0001.0	8.0	15.0	6.0		WR
	15400	LEAR	8 S	0000.0E	0000.0	2.0D	180.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0000.0E	0001.0	3.0D	270.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0000.0E	0001.0	1.0D	51.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0000.0E	0001.0	2.0D	300.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0000.0E	0001.0	3.0D	150.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0000.0E	0001.0	2.0D	85.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0000.0E	0001.0	2.0D	37.0			QL=4 ST=2 TYP=3
	17000	NOBE	3 S	0000.0	0001.0	6.0	114.0			R,80.35GHZ:SKY
	8800	PALE	8 S	0042.0E	0042.0	1.0D	60.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0042.0E	0042.0	U	29.0			QL=4 ST=2 TYP=3
	17000	NOBE	1 S	0042.0	0042.7	2.0	34.0			L,80.35GHZ:0
	2840	PEKG	45 C	0155.0	0158.0	12.0	48.4			
	15400	LEAR	4 S/F	0156.0E	0158.0	8.0D	200.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	0156.0E	0159.0	6.0D	82.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0156.0E	0156.0	6.0D	90.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0156.0E	0200.0	7.0D	100.0			QL=4 ST=2 TYP=5
	8800	PALE	4 S/F	0156.0E	0159.0	5.0D	85.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	0156.0E	0159.0	5.0D	91.0			QL=4 ST=2 TYP=3
	17000	NOBE	4 S/F	0156.5	0200.9	40.0	85.0			R,80.35GHZ:0
	2695	LEAR	4 S/F	0157.0E	0158.0	3.0D	43.0			QL=2 ST=2 TYP=3
1415	LEAR	8 S	0157.0E	0158.0	2.0D	25.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	0157.0E	0158.0	2.0D	35.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	0158.0E	0158.0	U	21.0			QL=4 ST=2 TYP=3	
2840	PEKG	29 PBI	0207.0	0207.0	68.0D	10.9				

S O L A R R A D I O E M I S S I O N
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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
05	9100	GORK	23 GRF	0228.0E	0230.0U	140.3D	26.0			
	500	HIRA	27 RF	0229.0	0249.5	84.0	15.0	5.0		WR
	17000	NOBE	1 S	0244.6	0245.0	2.0	27.0			L,80.35GHZ:0
	9100	GORK	2 S/F	0326.4	0328.5	3.6	13.0			
	2950	GORK	4 S/F	0326.7	0328.6	6.2	22.0			
	2840	PEKG	45 C	0328.0	0330.7	7.0	27.6			
	17000	NOBE	2 S/F	0338.4	0339.0	16.0	35.0			L,80.35GHZ:0
	2840	PEKG	1 S	0515.0	0517.5	7.0	3.3			
	410	SVTO	8 S	0516.0E	0516.0	1.0D	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0516.0E	0516.0	1.0D	45.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0516.1	0517.4	1.7	38.0			
	9300	KISV	2 S/F	0516.3	0517.4	2.3	10.0			
	500	HIRA	6 S	0516.5	0516.8	1.0	120.0	60.0		WR
	5900	KISV	2 S/F	0516.8	0517.4	2.0	7.0			
	410	LEAR	8 S	0517.0E	0517.0	U	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0542.0	0543.3	3.0	4.9			
	15400	LEAR	8 S	0543.0E	0543.0	U	58.0			QL=2 ST=2 TYP=3
	2850	CRIM	7 C	0605.0	0606.0		6.8			
	2850	CRIM	7 C	0605.0	0605.8	1.4	6.8	2.0		
	2850	CRIM	1 S	0607.2	0610.2	4.8	20.0	7.0		
	17000	NOBE	1 S	0610.0	0611.9	6.0	23.0			L,80.35GHZ:0
	500	HIRA	42 SER	0614.0	0616.5	4.0	150.0			WL
	536	ONDR	48 C	0614.5	0617.1	4.5	151.0			
	600	HUMN	2 S/F	0615.5	0616.0	2.5	18.0	6.0		
	650	GORK	4 S/F	0615.6	0616.7	2.5	30.0			
	410	LEAR	8 S	0616.0E	0616.0	1.0D	69.0			QL=2 ST=2 TYP=3
	650	GORK	3 S	0648.1	0648.3	0.7	20.0			
	2850	CRIM	1 S	0659.2	0700.2	3.0	6.8	2.0		
	950	GORK	1 S	0706.6	0708.4	4.1	4.0			
	17000	NOBE	1 S	0706.7	0708.3	5.0	37.0			L,80.35GHZ:0
	2840	PEKG	45 C	0707.0	0708.5	6.0	13.6			
	15000	KISV	2 S/F	0707.1	0708.4	3.7	36.0			
	9300	KISV	4 S/F	0707.1	0708.5	7.8	46.0			
	536	ONDR	2 S/F	0707.4	0707.6	2.0	132.0			
	9500	POTS	29 PBI	0707.5	0708.4	7.5	28.0			
	5900	KISV	4 S/F	0707.5	0708.5	4.9	23.0			
	2950	GORK	1 S	0707.6	0708.4	2.0	9.0			
	1470	POTS	4 S/F	0708.0	0708.5	1.5	6.0			
	3000	POTS	4 S/F	0708.0	0708.5	2.0	9.0			
	650	GORK	1 S	0709.7	0709.9	0.4	6.0			
	650	GORK	22 GRF	0720.9	0726.5	38.7	5.0			
	15000	KISV	2 S/F	0729.4	0730.0	3.0	26.0			
	9100	GORK	23 GRF	0742.7	1245.0	302.3	19.0			
	2850	CRIM	1 S	0755.0	0756.0	3.2	8.0	3.0		
	9300	KISV	2 S/F	0806.1	0807.2	2.5	13.0			
	9100	GORK	1 S	0806.4	0807.4	1.6	8.0			
	5900	KISV	2 S/F	0806.5	0807.2	1.8	5.0			
	2850	CRIM	1 S	0808.0	0809.8	4.0	8.0	3.0		
	15400	LEAR	8 S	0828.0E	0829.0	2.0D	240.0			QL=2 ST=3 TYP=3
	15400	SVTO	4 S/F	0828.0E	0829.0	4.0D	230.0			QL=4 ST=3 TYP=3
	15000	KISV	29 PBI	0828.0	0830.4	8.3	50.0			
	15000	KISV	4 S/F	0828.0	0829.6	2.4	273.0			
	9300	KISV	4 S/F	0828.1	0829.7	4.6	32.0			
	9100	GORK	29 PBI	0828.5	0830.2	8.1	22.0			
	9500	POTS	29 PBI	0828.5	0829.5	10.5	65.0			
	9100	GORK	2 S/F	0828.5	0829.7	1.7	56.0			
	8800	LEAR	8 S	0829.0E	0829.0	1.0D	34.0			QL=4 ST=3 TYP=3
	8800	SVTO	8 S	0829.0E	0829.0	1.0D	38.0			QL=4 ST=3 TYP=3
	2850	CRIM	45 C	0838.5	0841.0		61.0			
	2850	CRIM	45 C	0838.5	0845.0		218.0			
	2850	CRIM	45 C	0838.5	0839.2	12.0	243.0	73.0		
	2850	CRIM	30 PBI	0838.5	0900.5	170.0	42.0	14.0		
	260	ONDR	42 SER	0840.0	0953.5	115.0	44.0			
	9100	GORK	1 S	0900.5	0901.4	2.2	14.0			
	15000	KISV	2 S/F	0900.6	0901.5	2.5	16.0			
	9500	POTS	4 S/F	0900.6	0901.5	2.0	13.0			
	9300	KISV	2 S/F	0900.7	0901.4	9.9	17.0			
	2950	GORK	20 GRF	0900.7	0901.4	14.3	75.0			
	5900	KISV	21 GRF	0900.7	0901.4	33.9	11.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
05	3000	POTS	4 S/F	0900.8	0901.4	1.6	13.0			
	9300	KISV	22 GRF	0903.7		13.2	10.0			
	15000	KISV	2 S/F	0932.9	0933.3	1.9	11.0			
	204	IZMI	41 F	0940.5	0941.0	1.2	80.0			
	9300	KISV	2 S/F	1001.8	1002.9	5.1	7.0			
	2850	CRIM	1 S	1003.8	1004.0	0.8	49.0			
	5900	KISV	2 S/F	1013.0	1016.6	6.9	5.0			
	9300	KISV	2 S/F	1013.3		2.2	6.0			
	2850	CRIM	45 C	1017.8	1021.0		65.0			
	2850	CRIM	45 C	1017.8	1018.3	7.0	65.0	20.0		
	9100	GORK	46 C	1032.4	1105.1		32.0			
	9100	GORK	46 C	1032.4	1040.9	38.8	30.0			
	260	ONDR	41 F	1048.0	1435.2	342.0	100.0			
	245	SGMR	8 S	1112.0E	1113.0	1.0D	310.0			QL=2 ST=2 TYP=3
	204	IZMI	41 F	1113.0	1113.1	3.0	65.0			
	9300	KISV	2 S/F	1115.9	1116.8	4.4	9.0			
	9100	GORK	46 C	1131.0	1239.7		42.0			
	9100	GORK	46 C	1131.9	1220.1		28.0			
	9100	GORK	46 C	1131.9	1145.9	73.1	24.0			
	15000	KISV	2 S/F	1143.4	1144.1	3.8	16.0			
	9300	KISV	2 S/F	1144.9	1145.7	5.3	13.0			
	33	UPIC	2 S/F	1150.8	1151.1	0.7				
	15000	KISV	22 GRF	1210.9	1220.0		23.0			
	15000	KISV	22 GRF	1210.9	1212.2	13.8	37.0			
	9300	KISV	2 S/F	1211.8	1213.3	3.5	10.0			
	2850	CRIM	1 S	1211.9	1212.8	3.0	26.0	8.0		
	9300	KISV	23 GRF	1216.9	1224.0	39.1	22.0			
	5900	KISV	22 GRF	1222.9	1242.2	31.1	10.0			
	9300	KISV	1 S	1225.8	1226.2	1.5	5.0			
	2850	CRIM	1 S	1229.9	1230.5	1.2	34.0	10.0		
	9300	KISV	2 S/F	1238.8	1239.3	3.2	15.0			
	9400	HUAN	23 GRF	1319.8	1342.6	89.9	19.9	6.7		
	6700	CUBA	22 GRF	1323.0	1415.0	84.0	19.0	9.0		20R
	9300	KISV	2 S/F	1326.3	1328.5	5.5	13.0			
	5900	KISV	1 S	1326.9	1328.4	4.2	6.0			
	9300	KISV	2 S/F	1339.5	1342.3	6.9	13.0			
	5900	KISV	21 GRF	1339.6	1342.3	14.5	9.0			
	9400	HUAN	2 S/F	1409.7	1413.5	9.8	25.9	10.7		
	245	SGMR	8 S	1435.0E	1435.0	1.0D	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1435.0E	1435.0	1.0D	120.0			QL=4 ST=2 TYP=3
	280	CUBA	7 C	1437.0	1437.0U	3.0	71.0			
	235	CUBA	7 C	1437.0E	1437.0U	4.0D	72.0			
	9400	HUAN	2 S/F	1510.8	1512.6	10.0	20.9	11.3		
	15000	CUBA	1 S	1512.1	1512.8	1.4	13.0	6.0		36R
	6700	CUBA	2 S/F	1512.2	1513.0	4.1	3.0	1.0		40R
	9400	HUAN	23 GRF	1545.5	1802.0	205.2	85.6	36.4		
	15000	CUBA	21 GRF	1546.0	1554.0	139.0	27.0	13.0		21R
	6700	CUBA	21 GRF	1546.0	1624.0	285.0D	23.0			26R 2031 OFF
	9400	HUAN	2 S/F	1549.8	1552.2	9.2	23.9	12.1		
	9400	HUAN	45 C	1629.6	1631.0	15.4	252.8	68.2		
	15000	CUBA	4 S/F	1629.7	1631.2	7.1	128.0	64.0		43R
	6700	CUBA	4 S/F	1629.8	1631.1	9.1	74.0	18.0		15R
	15400	SGMR	8 S	1630.0E	1631.0	2.0D	250.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1630.0E	1631.0	4.0D	220.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1630.0E	1631.0	3.0D	240.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1631.0E	1631.0	U	25.0			QL=4 ST=2 TYP=3
	9400	HUAN	45 C	1734.8	1744.9	23.7	215.0	82.6		
	15400	SGMR	8 S	1737.0E	1737.0	U	30.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	1737.0E	1745.0	16.0D	140.0			QL=2 ST=2 TYP=3
	6700	CUBA	46 C	1737.0	1745.2	23.5	71.0	32.0		
	610	SGMR	8 S	1741.0E	1741.0	U	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1743.0E	1745.0	10.0D	39.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1801.0	1803.0	4.0	8.0	4.0		22R
	9400	HUAN	45 C	1813.2	1815.5	11.4	49.8	23.4		
	9400	HUAN	45 C	1813.2	1819.8		47.8			
	6700	CUBA	4 S/F	1813.5	1819.5	9.0	36.0	17.0		17R
	15000	CUBA	1 S	1818.2	1819.5	4.1	23.0	11.0		41R
	15000	CUBA	21 GRF	1846.0	1852.0	19.0U	16.0			00L
	9400	HUAN	4 S/F	1846.5	1847.5	11.1	47.8	23.7		

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Outstanding Occurrences

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
05	15000	CUBA	1 S	1846.5	1847.8	2.5	30.0	15.0		16L	
	2800	PENT	3 S	1846.6	1848.0	13.9	17.8	5.0			
	6700	CUBA	4 S/F	1846.8	1850.2	7.7	26.0	16.0		WR	
	15000	CUBA	1 S	1855.2	1855.6	2.6	12.0	6.0		83R	
	15000	CUBA	1 S	1943.2	1943.8	2.3	41.0	21.0		24L	
	6700	CUBA	1 S	1943.2	1943.8	2.3	35.0	17.0		9R	
	2800	PENT	32 ABS	1958.0	2021.5	42.0	4.6	2.0			
	2800	PENT	3 S	2105.7	2117.0	44.0	41.9	8.0			
	9400	HUAN	45 C	2107.2	2115.0	18.6	36.6	18.2			
	2695	SGMR	4 S/F	2115.0E	2116.0	3.0D	64.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2236.0E	2237.0	1.0D	54.0			QL=2 ST=2 TYP=3	
	2800	PENT	3 S	2329.3	2330.3	6.9	19.9	6.0			
	500	HIRA	46 C	2329.5	2329.5	1.0	60.0	15.0		0	
	245	LEAR	8 S	2346.0E	2346.0	1.0D	61.0			QL=2 ST=2 TYP=3	
	2840	PEKG	45 C	2350.0	2401.7	20.0	193.5				
	06	245	LEAR	44 NS	0254.0E	0407.0	394.0D	250.0			QL=4 ST=2 TYP=1
		100	GORK	44 NS	0300.0E		600.0D		68.0		
200		GORK	44 NS	0306.0E		354.0D		3.0			
245		PALE	44 NS	0317.0E	0353.0	97.0D	430.0			QL=4 ST=2 TYP=1	
245		SVTO	44 NS	0341.0E	1111.0U	851.0D	380.0			QL=2 ST=2 TYP=1	
410		SVTO	44 NS	0353.0E	0353.0	1207.0D	80.0			QL=4 ST=3 TYP=1	
33		UPIC	44 NS	0400.0E		510.0D					
204		IZMI	43 NS	0600.0			360.0	90.0			
260		ONDR	44 NS	0600.0E	1352.5U	630.0D	786.0				
127		TORN	44 NS	0620.0E		520.0D		460.0		V=1	
430		KRAK	44 NS	0711.0E	0750.0	255.0D	79.0	20.0			
245		SGMR	44 NS	0930.0E	2105.0	870.0D	240.0			QL=2 ST=3 TYP=1	
235		CUBA	44 NS	1252.0E		473.0D		54.0			
280		CUBA	44 NS	1252.0E		473.0D		60.0			
245		PALE	44 NS	1636.0E	0034.0	643.0D	790.0			QL=4 ST=2 TYP=1	
200		HIRA	44 NS	2030.0E	2226.0	770.0D	100.0	45.0		SR	
410		LEAR	44 NS	2315.0E	0009.0	155.0D	130.0			QL=2 ST=2 TYP=1	
245		LEAR	44 NS	2315.0E	0035.0	185.0D	790.0			QL=2 ST=3 TYP=1	
410		PALE	44 NS	2359.0E	0024.0	88.0D	260.0			QL=4 ST=2 TYP=1	
17000		NOBE	28 PRE	0039.6	0100.0	20.4	35.0			L	
8800		LEAR	49 GB	0043.0E	0105.0	132.0D	64000.0			QL=4 ST=2 TYP=7	
8800		PALE	49 GB	0044.0E	0104.0	123.0D	62000.0			QL=4 ST=2 TYP=7	
2840		PEKG	47 GB	0051.0	0105.0D	343.0	13973.2D				
4995		LEAR	49 GB	0058.0E	0105.0	117.0D	68000.0			QL=4 ST=2 TYP=7	
2800		PENT	47 GB	0058.3	0106.2	50.0D	69700.0	1390.0			
15400		LEAR	49 GB	0059.0E	0104.0	98.0D	75000.0			QL=2 ST=2 TYP=7	
15400		PALE	49 GB	0059.0E	0104.0	119.0D	49000.0			QL=4 ST=2 TYP=7	
4995		PALE	49 GB	0059.0E	0105.0	138.0D	51000.0			QL=4 ST=2 TYP=6	
2695		LEAR	49 GB	0100.0E	0105.0	114.0D	48000.0			QL=2 ST=2 TYP=7	
2695		PALE	49 GB	0100.0E	0105.0	137.0D	55000.0			QL=4 ST=2 TYP=6	
17000		NOBE	49 GB	0100.0	0108.7	120.0	92080.0			L	
35000		NOBE	49 GB	0101.0		74.0	178000.0D			L	
80000		NOBE	49 GB	0101.0	0106.0	74.0	163600.0			L	
610		LEAR	49 GB	0102.0E	0108.0	109.0D	13000.0			QL=4 ST=2 TYP=7	
610		PALE	49 GB	0102.0E	0108.0	109.0D	13000.0			QL=4 ST=2 TYP=6	
1415		LEAR	49 GB	0102.0E	0106.0	112.0D	21000.0			QL=4 ST=2 TYP=7	
410		LEAR	49 GB	0102.0E	0107.0	113.0D	5200.0			QL=4 ST=2 TYP=7	
1415		PALE	49 GB	0102.0E	0106.0	135.0D	24000.0			QL=4 ST=2 TYP=6	
500		HIRA	48 C	0102.2	0108.8	115.0	5000.0	300.0		WR	
410		PALE	49 GB	0104.0E	0107.0	133.0D	3600.0			QL=4 ST=2 TYP=6	
245	LEAR	49 GB	0105.0E	0107.0	109.0D	66000.0			QL=2 ST=2 TYP=7		
245	PALE	49 GB	0105.0E	0107.0	132.0D	65000.0			QL=4 ST=2 TYP=6		
200	HIRA	48 C	0105.4	0106.2	56.0	65000.0	700.0		WL		
100	HIRA	48 C	0105.8	0108.5	72.0	16000.0D	2000.0D				
2950	GORK	21 GRF	0254.0	0306.0	54.0D	64.0					
650	GORK	21 GRF	0257.0E	0846.5	603.0D	18.0					
9100	GORK	23 GRF	0325.0E	0327.0	151.3D	50.0					
100	GORK	46 C	0346.3	0355.0		950.0					
100	GORK	46 C	0346.3	0353.2	10.7	650.0					
950	GORK	40 F	0348.6	0349.1	3.9	2.5					
950	GORK	40 F	0348.6	0350.8		3.0					
650	GORK	2 S/F	0348.8	0349.2	0.6	8.3					
245	LEAR	8 S	0353.0E	0353.0	U	360.0			QL=2 ST=2 TYP=3		

S O L A R R A D I O E M I S S I O N
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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
06	245 SVTO	8 S	0353.0E	0353.0	U	430.0			QL=2 ST=2 TYP=3
	200 GORK	8 S	0353.1	0353.3	0.4	290.0			
	15400 PALE	8 S	0404.0E	0405.0	1.0D	91.0			QL=4 ST=2 TYP=3
	9300 KISV	22 GRF	0407.5	0415.6	10.6	14.0			
	5900 KISV	22 GRF	0407.7	0410.2		13.0			
	5900 KISV	22 GRF	0407.7	0415.6	15.4	14.0			
	9100 GORK	1 S	0415.0	0415.7	2.1	12.0			
	2950 GORK	2 S/F	0429.7	0433.6	5.9	8.0			
	5900 KISV	21 GRF	0430.2	0433.7	10.8	11.0			
	100 GORK	46 C	0449.5	0453.0	9.2	990.0			
	100 GORK	46 C	0449.5	0455.8		1350.0			
	9100 GORK	1 S	0506.0	0506.1	0.6	11.0			
	5900 KISV	4 S/F	0506.0	0506.2	1.1	18.0			
	200 GORK	8 S	0510.8	0511.7	1.2	1420.0			
	245 LEAR	8 S	0511.0E	0511.0	U	420.0			QL=2 ST=2 TYP=3
	245 SVTO	49 GB	0511.0E	0511.0	1.0D	620.0			QL=2 ST=2 TYP=6
	100 GORK	8 S	0511.6	0511.7	0.5	400.0			
	536 ONDR	41 F	0600.0	0704.6	630.0	137.0			
	15000 KISV	2 S/F	0618.3	0619.2	1.1	17.0			
	9100 GORK	1 S	0619.0	0619.7	2.6	21.0			
	9300 KISV	2 S/F	0619.3	0619.6	3.3	18.0			
	100 GORK	46 C	0625.2	0643.3		1200.0			
	100 GORK	46 C	0625.2	0631.5	23.6	1700.0			
	9100 GORK	23 GRF	0645.0	0800.0	106.0D	27.0			
	2840 PEKG	45 C	0703.0	0705.5	8.0	135.9			
	3000 POTS	4 S/F	0703.5	0705.4	13.1	90.0			
	9100 GORK	46 C	0703.7	0708.0		29.0			
	2950 GORK	4 S/F	0703.7	0705.1	3.3	113.0			
	5900 KISV	4 S/F	0703.7	0705.1	5.1	86.0			
	9100 GORK	46 C	0703.7	0711.4		19.0			
	5900 KISV	30 PBI	0703.7	0708.8	7.1	30.0			
	9100 GORK	46 C	0703.7	0704.9	10.2	86.0			
	950 GORK	1 S	0704.0E	0706.0	2.7D	17.0			
	600 HUMN	2 S/F	0704.0	0705.0	3.0	33.0	10.0		
	2695 SVTO	8 S	0704.0E	0705.0	1.0D	100.0			QL=2 ST=2 TYP=3
	4995 SVTO	8 S	0704.0E	0705.0	2.0D	67.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	0704.0E	0704.0	1.0D	64.0			QL=4 ST=2 TYP=3
	9500 POTS	42 SER	0704.0	0705.0	16.0	53.0			
	950 GORK	30 PBI	0704.0E	0707.2	352.0D	6.0			
	3013 IZMI	7 C	0704.0	0705.3	3.5	46.0	23.0		
	9300 KISV	23 GRF	0704.1	0711.4	9.4	24.0			
	9300 KISV	4 S/F	0704.5	0705.0	2.1	76.0			
	17000 NOBE	2 S/F	0704.5	0705.4	12.0	19.0			0,80.35GHZ:0
	100 GORK	22 GRF	0704.6	0709.9	11.7	700.0			
	650 GORK	46 C	0704.7	0708.3		230.0			
	650 GORK	46 C	0704.7	0709.3		93.0			
	650 GORK	46 C	0704.7	0705.7	5.0	24.0			
	15000 KISV	21 GRF	0704.8	0705.0	12.3	26.0			
	500 HIRA	46 C	0704.8	0705.7	1.5	170.0	70.0		WL
	610 SVTO	8 S	0705.0E	0705.0	U	34.0			QL=4 ST=2 TYP=3
	9300 KISV	2 S/F	0707.8	0708.8	2.3	21.0			
	1415 LEAR	8 S	0708.0E	0709.0	1.0D	51.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0708.0E	0709.0	1.0D	67.0			QL=4 ST=2 TYP=3
610 SVTO	8 S	0708.0E	0708.0	1.0D	140.0			QL=4 ST=2 TYP=3	
808 ONDR	4 S/F	0708.5	0709.5		43.0				
1415 SVTO	8 S	0709.0E	0709.0	U	44.0			QL=4 ST=2 TYP=3	
5900 KISV	4 S/F	0710.9	0711.4	1.1	18.0				
245 LEAR	8 S	0740.0E	0741.0	1.0D	130.0			QL=2 ST=2 TYP=3	
245 SVTO	8 S	0740.0E	0741.0	1.0D	180.0			QL=2 ST=2 TYP=3	
100 GORK	46 C	0742.0	0752.2		560.0				
100 GORK	46 C	0742.0	0745.8	12.5	820.0				
600 HUMN	2 S/F	0747.0	0749.0	9.0	22.0	10.0			
410 LEAR	4 S/F	0747.0E	0750.0	6.0D	38.0			QL=4 ST=2 TYP=3	
3013 IZMI	7 C	0747.0	0752.8	28.0	91.0	45.0			
500 HIRA	45 C	0747.2	0748.1	3.5	60.0	30.0		WL	
650 GORK	46 C	0747.4	0749.2	6.9	22.0				
650 GORK	46 C	0747.4	0750.4		11.0				
2950 GORK	4 S/F	0747.5	0752.6	14.2	138.0				
3000 POTS	4 S/F	0747.6	0752.3	27.4	19.0				

S O L A R R A D I O E M I S S I O N
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JUNE 1991

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	5900	KISV	4 S/F	0747.7	0754.4	9.9	145.0				
	5900	KISV	29 PBI	0747.7	0757.6	18.6	97.0				
	810	KRAK	7 C	0747.9	0747.9	3.50	12.0	9.0			
	1415	LEAR	20 GRF	0748.0E	0753.0	8.00	49.0			QL=4 ST=2 TYP=2	
	610	LEAR	4 S/F	0748.0E	0749.0	3.00	43.0			QL=4 ST=2 TYP=3	
	2695	LEAR	4 S/F	0748.0E	0752.0	13.00	130.0			QL=2 ST=2 TYP=3	
	2695	SVTO	4 S/F	0748.0E	0752.0	972.00	130.0			QL=2 ST=3 TYP=3	
	410	SVTO	4 S/F	0748.0E	0750.0	972.00	72.0			QL=2 ST=3 TYP=3	
	1415	SVTO	4 S/F	0748.0E	0752.0	972.00	37.0			QL=4 ST=3 TYP=3	
	610	SVTO	4 S/F	0748.0E	0749.0	972.00	52.0			QL=4 ST=3 TYP=3	
	950	GORK	45 C		0748.0	0752.3		9.0			
	950	GORK	45 C		0748.0	0749.3	7.0	8.0			
	9100	GORK	22 GRF		0748.0	0754.3	12.0	75.0			
	9500	POTS	4 S/F		0748.0	0754.4	24.4	71.0			
	9300	KISV	23 GRF		0748.4	0759.7	16.3	25.0			
	4995	LEAR	20 GRF		0749.0E	0754.0	12.00	130.0			QL=4 ST=2 TYP=2
	4995	SVTO	4 S/F		0749.0E	0754.0	971.00	160.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F		0749.0E	0752.0	971.00	130.0			QL=2 ST=3 TYP=3
	8800	SVTO	4 S/F		0749.0E	0754.0	971.00	88.0			QL=4 ST=3 TYP=3
	15000	KISV	20 GRF		0749.5	0754.6	12.9	51.0			
	200	GORK	46 C		0750.1	0750.3	4.8	115.0			
	200	GORK	46 C		0750.1	0750.8		70.0			
	9300	KISV	4 S/F		0750.6	0754.6	8.0	54.0			
	8800	LEAR	4 S/F		0751.0E	0753.0	6.00	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S		0752.0E	0752.0	U	65.0			QL=2 ST=2 TYP=3
	15400	LEAR	4 S/F		0752.0E	0755.0	4.00	50.0			QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F		0752.0E	0754.0	968.00	38.0			QL=4 ST=3 TYP=3
	2850	CRIM	1 S		0841.0	0843.5	4.0	18.0	5.0		
	100	GORK	46 C		0844.8	0849.1	12.2	1000.0			
	100	GORK	46 C		0844.8	0853.3		620.0			
	2850	CRIM	28 PRE		0917.0	0930.0	13.0	41.0	14.0		
	9500	POTS	4 S/F		0929.0	0930.0	2.6	17.0			
	9100	GORK	2 S/F		0929.6	0930.0	2.2	13.0			
	2850	CRIM	3 S		0930.0	0935.0	8.0	132.0	44.0		
	9100	GORK	1 S		0940.5	0941.1	2.4	7.0			
	204	IZMI	41 F		0952.3	0953.0	1.2	350.0			
	2950	GORK	1 S		1207.5	1208.8	1.7	13.8			
	9400	HUAN	1 S		1321.1	1323.4	4.5	12.9	4.7		
	9500	POTS	4 S/F		1322.7	1323.4	2.3	21.0			
	15400	SGMR	8 S		1323.0E	1323.0	U	62.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S		1323.0E	1323.0	1.00	65.0			QL=4 ST=2 TYP=3
	15000	CUBA	21 GRF		1328.0E	1440.0	217.00	27.0			17R
	9400	HUAN	22 GRF		1431.2	1453.4	38.7	9.6	5.6		
	9400	HUAN	2 S/F		1543.8	1545.2	5.5	6.4	4.0		
	15000	CUBA	2 S/F		1622.2	1623.1	2.4	14.0	7.0		44R
	9400	HUAN	21 GRF		1643.4	1751.4	101.0	37.0	12.5		
	2800	PENT	3 S		1658.3	1659.5	5.4	17.8	5.0		
	9400	HUAN	1 S		1659.1	1700.0	3.4	24.1	14.6		
	245	PALE	8 S		1716.0E	1716.0	1.00	98.0			QL=2 ST=2 TYP=3
	245	SGMR	4 S/F		1716.0E	1716.0	3.00	120.0			QL=2 ST=2 TYP=3
6700	CUBA	21 GRF		1730.0	1748.0	48.0	2.0	1.0		WR	
15000	CUBA	23 GRF		1730.0	1734.0	54.0	39.0	19.0		15L	
6700	CUBA	4 S/F		1731.0	1734.8	8.0	60.0	17.0		13L	
9400	HUAN	45 C		1731.2	1734.8	8.6	54.7	30.3			
2800	PENT	4 S/F		1731.6	1734.8	48.0	65.8	13.0			
4995	PALE	8 S		1734.0E	1734.0	1.00	110.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S		1734.0E	1734.0	1.00	70.0			QL=4 ST=2 TYP=3	
2800	PENT	22 GRF		1858.0	1920.0	98.0	8.5	4.0			
9400	HUAN	22 GRF		1912.6	2011.2	91.6	13.7	5.4			
245	PALE	8 S		2105.0E	2105.0	U	270.0			QL=2 ST=3 TYP=3	
9400	HUAN	1 S		2126.5	2129.8	9.7	9.6	3.6			
410	PALE	8 S		2230.0E	2230.0	1.00	57.0			QL=4 ST=2 TYP=3	
500	HIRA	20 GRF		2352.5	2504.1	120.0	140.0	50.0		WR	
07	200	HIRA	44 NS	0203.0E	0536.5	780.00	60.0	26.0		MR	
	100	GORK	44 NS	0300.0E		540.00		6.0			
	204	IZMI	43 NS	0600.0E		360.0	70.0				
	260	ONDR	44 NS	0600.0E	0613.5	630.00	539.0				
	127	TORN	44 NS	0620.0E		520.00		110.0		V=1	

S O L A R R A D I O E M I S S I O N
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Jun 91

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
07	245	SVTO	44 NS	0824.0E	1000.0	293.0D	140.0			QL=4 ST=2 TYP=1	
	430	KRAK	43 NS	0950.0	1111.0	159.5	74.0	16.0			
	245	SGMR	44 NS	0958.0E	1000.0	842.0D	140.0			QL=2 ST=3 TYP=1	
	245	SGMR	44 NS	1058.0E	1000.0	138.0D	140.0			QL=2 ST=2 TYP=1	
	410	SVTO	44 NS	1110.0E	1110.0	25.0D	98.0			QL=4 ST=3 TYP=1	
	235	CUBA	44 NS	1303.0E		447.0D		23.0			
	280	CUBA	44 NS	1303.0E		447.0D		27.0			
	2800	PENT	28 PRE	0001.0	0039.5	45.0	54.2	22.0			
	200	HIRA	27 RF	0003.8	0036.6	95.0	1000.0	150.0			MR
	17000	NOBE	4 S/F	0017.4	0051.3	155.0	125.0				L
	2840	PEKG	45 C	0021.0	0052.9	78.0D	398.0				
	4995	PALE	20 GRF	0024.0E	0056.0	116.0D	270.0				QL=4 ST=2 TYP=2
	8800	PALE	20 GRF	0029.0E	0051.0	88.0D	200.0				QL=4 ST=2 TYP=2
	100	HIRA	48 C	0032.0	0047.8	80.0	1000.0	300.0			SR
	610	PALE	20 GRF	0035.0E	0058.0	56.0D	200.0				QL=4 ST=2 TYP=2
	2695	PALE	4 S/F	0035.0E	0053.0	105.0D	360.0				QL=4 ST=2 TYP=5
	1415	LEAR	49 GB	0036.0E	0040.0	7.0D	630.0				QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0036.0E	0038.0	47.0D	170.0				QL=4 ST=3 TYP=5
	1415	PALE	20 GRF	0038.0E	0040.0	59.0D	600.0				QL=4 ST=2 TYP=2
	4995	LEAR	4 S/F	0039.0E	0039.0	44.0D	170.0				QL=4 ST=3 TYP=5
	15400	PALE	4 S/F	0040.0E	0051.0	100.0D	150.0				QL=4 ST=2 TYP=5
	245	LEAR	4 S/F	0041.0E	0041.0	42.0D	120.0				QL=2 ST=3 TYP=3
	1415	LEAR	4 S/F	0043.0E	0054.0	40.0D	400.0				QL=4 ST=2 TYP=5
	2800	PENT	47 GB	0046.0	0053.4	60.0D	823.6	165.0			
	410	LEAR	4 S/F	0048.0E	0105.0	26.0D	220.0				QL=2 ST=2 TYP=5
	2695	LEAR	4 S/F	0050.0E	0053.0	33.0D	320.0				QL=2 ST=2 TYP=5
	35000	NOBE	1 S	0050.2	0051.3	3.0	49.0				L,80GHZ:0
	15400	LEAR	8 S	0051.0E	0051.0	U	67.0				QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0051.0E	0051.0	27.0D	110.0				QL=4 ST=3 TYP=5
	410	LEAR	8 S	0125.0E	0125.0	1.0D	120.0				QL=2 ST=2 TYP=3
	2950	GORK	21 GRF	0132.0E	0316.0	564.0D	85.0				
	2840	PEKG	30 PBI	0139.0	0139.0	100.0	131.4				
	410	LEAR	4 S/F	0141.0E	0141.0	4.0D	200.0				QL=2 ST=2 TYP=3
	410	LEAR	8 S	0240.0E	0241.0	2.0D	420.0				QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0240.0E	0241.0	2.0D	2300.0				QL=2 ST=2 TYP=6
	245	PALE	49 GB	0240.0E	0241.0	2.0D	2300.0				QL=4 ST=2 TYP=6
	410	PALE	49 GB	0241.0E	0241.0	U	700.0				QL=4 ST=2 TYP=6
	200	GORK	46 C	0300.0		540.0		5.0			
	9100	GORK	23 GRF	0351.0E	0401.3U	549.0D	78.0				
	245	LEAR	8 S	0504.0E	0505.0	1.0D	100.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	0504.0E	0505.0	1.0D	88.0				QL=4 ST=2 TYP=3
	200	GORK	8 S	0535.7	0535.8	0.3	540.0				
	100	GORK	41 F	0603.6	0613.1		26000.0				
	100	GORK	41 F	0603.6	0617.6		7450.0				
	100	GORK	41 F	0603.6	0604.6	17.9	2780.0				
	2840	PEKG	45 C	0610.0	0613.4	10.0	79.5				
	245	LEAR	49 GB	0611.0E	0613.0	3.0D	1700.0				QL=2 ST=2 TYP=6
	3013	IZMI	41 F	0611.5	0613.3	10.0	56.0				
	600	HUMN	45 C	0611.5	0616.5	7.0	44.0	12.0			
	200	GORK	46 C	0611.6	0613.2	3.4	1670.0				
200	GORK	46 C	0611.6	0613.5		1730.0					
204	IZMI	41 F	0611.8	0613.0	7.0	8700.0					
2950	GORK	4 S/F	0611.8	0613.2	7.6	65.0					
200	HIRA	46 C	0611.8	0612.8	2.0	3500.0	500.0			WL	
610	LEAR	8 S	0612.0E	0613.0	2.0D	71.0				QL=4 ST=2 TYP=3	
2695	LEAR	8 S	0612.0E	0613.0	1.0D	43.0				QL=2 ST=2 TYP=3	
15400	LEAR	8 S	0612.0E	0613.0	1.0D	440.0				QL=2 ST=2 TYP=3	
4995	LEAR	8 S	0612.0E	0613.0	1.0D	140.0				QL=4 ST=2 TYP=3	
8800	LEAR	8 S	0612.0E	0613.0	1.0D	290.0				QL=4 ST=2 TYP=3	
4995	SVTO	8 S	0612.0E	0613.0	1.0D	160.0				QL=4 ST=2 TYP=3	
15400	SVTO	8 S	0612.0E	0613.0	1.0D	490.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	0612.0E	0613.0	1.0D	320.0				QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0612.0E	0613.0	2.0D	1400.0				QL=4 ST=2 TYP=6	
410	SVTO	8 S	0612.0E	0613.0	2.0D	430.0				QL=4 ST=2 TYP=3	
2695	SVTO	8 S	0612.0E	0613.0	1.0D	51.0				QL=4 ST=2 TYP=3	
33	UPIC	46 C	0612.0	0613.0	11.0						
536	ONDR	48 C	0612.0	0616.2	6.5	217.0					
100	HIRA	42 SER	0612.0	0613.3	9.3	10000.0					
5900	KISV	4 S/F	0612.1	0613.6	3.0	87.0					

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (W/m ² Hz)		
07	9300	KISV	4 S/F	0612.2	0614.0U	3.5	102.0D			
	650	GORK	29 PBI	0612.2	0618.4	15.9	2.0			
	650	GORK	46 C	0612.2	0616.6		38.0			
	650	GORK	46 C	0612.2	0613.6	6.2	78.0			
	15000	KISV	47 GB	0612.3	0613.3	3.5	652.0			
	950	GORK	29 PBI	0612.4	0614.2	6.8	6.0			
	950	GORK	5 S	0612.4	0613.7	1.8	46.0			
	17000	NOBE	4 S/F	0612.5	0613.2	1.0	314.0			L,80.35GHZ:BAD
	9100	GORK	4 S/F	0612.5	0613.3	1.9	373.0			
	500	HIRA	42 SER	0612.5	0616.6	6.0	650.0			MR
	808	ONDR	3 S	0613.0	0614.0	3.0	36.0			
	610	SVTO	8 S	0613.0E	0613.0	1.0D	59.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0616.0E	0616.0	1.0D	60.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0616.0E	0618.0	2.0D	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0616.0E	0618.0	2.0D	58.0			QL=2 ST=2 TYP=3
	9100	GORK	22 GRF	0630.4	0635.3	9.3	14.0			
	9300	KISV	22 GRF	0630.7	0635.3	14.0	20.0			
	5900	KISV	22 GRF	0631.7	0635.3	11.0	12.0			
	9500	POTS	42 SER	0651.0	0707.8	17.8	49.0			
	9100	GORK	3 S	0651.2	0652.3	2.8	32.0			
	2840	PEKG	45 C	0703.0	0706.8	10.0	51.3			
	3000	POTS	4 S/F	0704.5	0708.0	11.0	44.0			
	5900	KISV	4 S/F	0705.2	0707.9	7.6	111.0			
	9100	GORK	2 S/F	0705.4	0708.0	4.8	54.0			
	2950	GORK	3 S	0705.9	0708.0	6.2	42.0			
	9300	KISV	4 S/F	0705.9	0707.9	4.1	56.0			
	4995	LEAR	8 S	0706.0E	0707.0	2.0D	83.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0706.0E	0707.0	2.0D	50.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0706.0E	0708.0	3.0D	92.0			QL=4 ST=2 TYP=3
	3013	IZMI	7 C	0706.0	0708.0	10.0	32.0	15.0		
	2695	LEAR	8 S	0707.0E	0708.0	1.0D	43.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	0707.0E	0708.0	1.0D	24.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0707.0E	0708.0	1.0D	54.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0707.0E	0708.0	1.0D	41.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	0723.0	0724.8		37.0	12.0		
	650	GORK	23 GRF	0732.9		333.0D				
	950	GORK	23 GRF	0734.9	1217.4	325.0D	11.0			
	204	IZMI	42 SER	0820.0	0900.8	43.0	380.0			
	600	HUMN	27 RF	0843.0	1111.0	253.0	15.0	3.0		
	2850	CRIM	1 S	0859.0	0859.8	1.0	20.0	7.0		
	15000	KISV	1 S	0910.4	0910.7	0.7	18.0			
	9300	KISV	23 GRF	0914.1	0919.4	25.2	30.0			
	9300	KISV	2 S/F	0917.4	0918.0	1.5	21.0			
	536	ONDR	40 F	0920.0	1213.0	190.0	282.0			
	100	GORK	8 S	0957.5	0958.6	2.0	750.0			
	127	TORN	8 S	0957.7	0958.3	1.5	2200.0	1100.0		
	33	UPIC	45 C	0958.1	0958.7	1.2				
	204	IZMI	41 F	0958.5	1000.5	3.5	870.0			
	9500	POTS	4 S/F	1017.7	1018.2	2.3	14.0			
	15000	KISV	4 S/F	1017.8	1018.2	1.6	51.0			
15400	SGMR	8 S	1018.0E	1018.0		48.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1018.0E	1018.0		51.0			QL=4 ST=2 TYP=3	
33	UPIC	40 F	1027.7	1158.7	213.8					
650	GORK	4 S/F	1052.8	1054.1	4.1	22.0				
950	GORK	2 S/F	1053.3	1054.1	1.6	11.0				
410	SVTO	8 S	1106.0E	1107.0	1.0D	66.0			QL=2 ST=2 TYP=3	
5900	KISV	2 S/F	1134.8	1135.4	3.0	7.0				
5900	KISV	22 GRF	1155.0	1158.9	9.8	11.0				
3013	IZMI	42 SER	1155.5	1156.3	4.5	3.0				
100	GORK	4 S/F	1155.8	1158.9	4.5	1700.0				
200	GORK	4 S/F	1157.9	1158.4	1.3	320.0				
127	TORN	4 S/F	1157.9	1158.7	1.5	7000.0	3500.0			
204	IZMI	4 S/F	1158.0	1158.4	1.5	260.0				
410	SGMR	8 S	1229.0E	1229.0		92.0			QL=4 ST=2 TYP=3	
9400	HUAN	2 S/F	1230.8	1232.6	6.0	16.9	6.1			
9100	GORK	46 C	1232.0	1234.5		16.0				
9100	GORK	46 C	1232.0	1232.8	5.3	38.0				
9300	KISV	4 S/F	1232.1	1232.7	3.2	46.0				
5900	KISV	4 S/F	1232.1	1232.8	4.3	38.0				

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

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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
07	9500	POTS	4 S/F	1232.2	1232.7	2.8	37.0			
	2950	GORK	2 S/F	1232.3	1232.8	1.5	11.0			
	15000	KISV	2 S/F	1232.3	1232.8	1.2	33.0			
	2950	GORK	20 GRF	1253.5	1253.8	6.6D	5.0			
	9500	POTS	4 S/F	1314.6	1315.8	3.9	41.0			
	15400	SGMR	8 S	1315.0E	1316.0	1.0D	74.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1315.0E	1316.0	1.0D	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1315.0E	1315.0	1.0D	47.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1315.0E	1315.0	1.0D	73.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1315.0E	1315.0	1.0D	27.0			QL=4 ST=2 TYP=3
	9400	HUAN	3 S	1315.1	1316.0	3.4	32.0	11.8		
	9300	KISV	4 S/F	1315.2	1315.8	3.4	69.0			
	15000	KISV	4 S/F	1315.3	1315.9	2.7	78.0			
	5900	KISV	4 S/F	1315.4	1315.8	3.1	38.0			
	6700	CUBA	1 S	1344.1	1344.4	1.4	7.0	3.0		56R
	9400	HUAN	22 GRF	1346.5	1359.5	37.9	20.7	12.5		
	15000	CUBA	1 S	1410.9	1411.2	1.1	13.0	6.0		POL FAILURE
	235	CUBA	7 C	1450.0	1451.0	6.0	49.0			
	280	CUBA	7 C	1450.0	1451.0	6.0	58.0			
	245	SVTO	8 S	1450.0E	1451.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1454.0E	1454.0	1.0D	230.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1454.0E	1454.0	1.0D	45.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1454.0E	1454.0	1.0D	230.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1455.0	1455.3	1.0				
	9400	HUAN	22 GRF	1513.4	1537.5	49.2	5.6	3.1		
	6700	CUBA	1 S	1534.0	1534.2	1.0	13.0	6.0		WL
	15000	CUBA	2 S/F	1555.0E	1555.2	1.4D	14.0	7.0		POL FAILURE
	9400	HUAN	22 GRF	1633.6	1705.6	51.8	18.8	9.8		
	6700	CUBA	22 GRF	1807.0	1813.0	9.0	6.0	3.0		39R
	9400	HUAN	2 S/F	1810.5	1812.7	6.1	13.2	5.6		
	600	HUMN	2 S/F	1812.5	1812.8	0.5	48.0	10.0		
	610	PALE	8 S	1813.0E	1813.0	U	81.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1813.0E	1813.0	U	110.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1813.9	1814.4	3.8	35.7	7.0		
	9400	HUAN	45 C	1942.5	1948.0	11.8	45.1	11.1		
	410	PALE	4 S/F	1944.0E	1945.0	8.0D	46.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1944.0E	1944.0	1.0D	990.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1944.0E	1945.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	15400	SGMR	8 S	1947.0E	1948.0	1.0D	23.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1947.0E	1948.0	1.0D	35.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1954.0E	1954.0	1.0D	86.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1954.0E	1954.0	1.0D	71.0			QL=2 ST=2 TYP=3
	2800	PENT	3 S	2003.6	2004.1	4.6	133.3	27.0		
	610	PALE	8 S	2014.0E	2014.0	U	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2014.0E	2014.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2050.0E	2050.0	U	450.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2050.0E	2050.0	U	490.0			QL=4 ST=2 TYP=3
500	HIRA	27 RF	2156.0	2206.5	32.0	60.0	25.0		MR	
2800	PENT	22 GRF	2231.0	2246.5	80.0	25.3	10.0			
08	200	GORK	44 NS	0300.0E		390.0D		5.0		
	100	GORK	44 NS	0300.0E		390.0D		3.0		
	245	PALE	44 NS	0445.0E	0447.0	9.0D	110.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	0445.0E	0447.0	135.0D	140.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0450.0E	0450.0	98.0D	110.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	25.0			
	127	TORN	43 NS	0720.0	1003.2	460.0	70.0	13.0		V=1, THUNDERSTOR
	260	ONDR	44 NS	0800.0E	0917.0	260.0D	221.0			
	245	SGMR	44 NS	1104.0E	1110.0	86.0D	100.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	1110.0E	1119.0	65.0D	100.0			QL=4 ST=2 TYP=1
	950	GORK	20 GRF	0258.0E	0307.5	51.6D	21.0			
	200	GORK	22 GRF	0351.0	0448.0U	87.0	22.0D			
	9300	KISV	25 R	0403.4	0417.5	19.7	25.0			
	950	GORK	20 GRF	0412.1	0416.6	44.9	4.0			
	2950	GORK	2 S/F	0412.2	0413.3	3.1	8.5			
	9100	GORK	2 S/F	0412.3	0413.4	2.5	26.0			
	15000	KISV	45 C	0412.4	0413.0	2.5	35.0			
	15000	KISV	45 C	0412.4	0413.4		35.0			
	17000	NOBE	1 S	0412.4	0413.4	2.0	26.0			L, 80.35GHZ:0

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
08	9300	KISV	4 S/F	0412.7	0413.3	2.7	28.0			
	5900	KISV	23 GRF	0412.7	0417.5	25.1	9.0			
	5900	KISV	4 S/F	0412.9	0413.4	1.0	16.0			
	650	GORK	22 GRF	0417.6	0419.2	19.9	5.0			
	15000	KISV	2 S/F	0429.2	0430.6	4.5	38.0			
	17000	NOBE	1 S	0429.7	0430.4	2.0	16.0			L,80.35GHZ:0
	100	GORK	8 S	0442.0	0442.8	1.2	3700.0			
	17000	NOBE	1 S	0500.2	0501.0	2.0	23.0			0,80.35GHZ:0
	5900	KISV	24 R	0541.6	0547.3		15.0			
	9100	GORK	23 GRF	0557.0U	0643.4	213.00	20.0			
	9300	KISV	2 S/F	0603.6	0605.7	9.7	14.0			
	650	GORK	22 GRF	0628.5	0633.8	25.5	4.0			
	950	GORK	22 GRF	0628.6	0633.8	24.2	5.0			
	200	GORK	22 GRF	0628.7	0633.2U	34.2	18.00			
	15000	KISV	20 GRF	0640.3	0643.8	14.3	32.0			
	17000	NOBE	20 GRF	0640.4	0643.7	13.0	18.0			L,80.35GHZ:0
	9300	KISV	20 GRF	0641.1	0644.0	10.0	19.0			
	9300	KISV	45 C	0722.3	0724.4	7.4	33.0			
	9300	KISV	45 C	0722.3	0726.7		27.0			
	9500	POTS	40 F	0723.6	0726.0	4.6	19.0			
	9100	GORK	46 C	0723.6	0726.2		27.0			
	9100	GORK	46 C	0723.6	0724.4	4.6	22.0			
	15000	KISV	45 C	0724.0	0726.1	5.8	47.0			
	15000	KISV	45 C	0724.0	0724.3		33.0			
	245	LEAR	8 S	0740.0E	0742.0	2.00	77.0			QL=2 ST=2 TYP=3
	950	GORK	22 GRF	0824.0	0908.0	66.0	4.0			
	9100	GORK	46 C	0825.6	0827.4	10.0	44.0			
	9100	GORK	46 C	0825.6	0833.5		30.0			
	5900	KISV	46 C	0825.7	0827.2	10.3	24.0			
	15000	KISV	45 C	0825.7	0833.3		58.0			
	15000	KISV	45 C	0825.7	0827.4	11.8	127.0			
	5900	KISV	46 C	0825.7	0833.5		19.0			
	9500	POTS	42 SER	0825.8	0827.4	8.6	28.0			
	15400	LEAR	4 S/F	0826.0E	0827.0	3.00	94.0			QL=2 ST=2 TYP=3
	2950	GORK	20 GRF	0826.5	0833.4	11.2	5.0			
	8800	LEAR	8 S	0827.0E	0827.0	U	33.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0827.0E	0827.0	1.00	99.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	0827.0E	0827.0	U	41.0			QL=2 ST=2 TYP=3
	430	KRAK	27 RF	0845.8	0846.3	48.2	50.0	8.0		
	650	GORK	1 S	0846.0	0846.2	1.9	2.0			
	3013	IZMI	5 S	0848.5	0849.0	2.0	7.0	4.0		
	200	GORK	22 GRF	0904.8	0915.7	25.2	16.0			
	9300	KISV	2 S/F	0906.1	0906.5	2.7	8.0			
	9300	KISV	4 S/F	0920.1	0923.4	4.4	26.0			
	245	LEAR	8 S	0921.0E	0921.0	U	120.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0921.0E	0921.0	U	55.0			QL=2 ST=3 TYP=3
	9300	KISV	21 GRF	0926.1	0927.1	11.5	14.0			
	9300	KISV	2 S/F	0943.9	0944.9	2.2	8.0			
	204	IZMI	41 F	1000.0	1004.3		130.0			
	5900	KISV	2 S/F	1008.7	1009.9	1.8	4.0			
	9300	KISV	2 S/F	1009.2	1010.5	8.7	17.0			
	15000	KISV	2 S/F	1009.3	1015.0	9.2	36.0			
	430	KRAK	27 RF	1032.5	1055.8	35.5	32.0	9.0		
	204	IZMI	42 SER	1042.0	1113.6	43.0	600.0			
	410	SVTO	8 S	1104.0E	1104.0	U	36.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1105.0E	1105.0	U	96.0			QL=2 ST=2 TYP=3
	15000	KISV	4 S/F	1136.6	1139.5	5.1	70.0			
	5900	KISV	20 GRF	1136.7	1137.2	10.9	7.0			
	15400	SGMR	8 S	1139.0E	1139.0	U	54.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1139.0E	1139.0	U	67.0			QL=2 ST=2 TYP=3
	15000	KISV	1 S	1200.2	1200.5	0.7	14.0			
	15000	KISV	22 GRF	1212.0	1219.9	10.7	27.0			
	260	ONDR	40 F	1220.0	1430.0	250.0	74.0			
	15000	KISV	4 S/F	1228.4	1229.2	2.7	51.0			
	15000	KISV	4 S/F	1320.8	1323.0	2.6	433.0			
	15000	KISV	29 PBI	1320.8	1324.4	21.1	365.0			
	15400	SGMR	4 S/F	1321.0E	1323.0	9.00	320.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1321.0E	1322.0	8.00	340.0			QL=2 ST=2 TYP=3
	9500	POTS	4 S/F	1321.6	1323.2	13.4	86.0			

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

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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
08	5900	KISV	4 S/F	1321.6	1323.4	9.1	106.0			
	9400	HUAN	4 S/F	1321.7	1323.5	6.4	74.1	37.3		
	8800	SGMR	4 S/F	1322.0E	1323.0	3.0D	73.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1322.0E	1323.0	6.0D	81.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1322.0E	1323.0	5.0D	86.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1322.0E	1323.0	5.0D	84.0			QL=2 ST=2 TYP=3
	9300	KISV	4 S/F	1322.4	1323.2	4.2	66.0			
	3000	POTS	4 S/F	1322.5	1323.7	3.5	12.0			
	9300	KISV	23 GRF	1323.0	1324.6	1.6	22.0			
	9400	HUAN	30 PBI	1328.1	1328.1	84.0	13.0	8.0		
	9400	HUAN	1 S	1354.4	1356.3	4.8	5.6	3.7		
	9400	HUAN	2 S/F	1421.1	1424.4	6.2	13.0	6.8		
	536	ONDR	42 SER	1425.0	1432.5	135.0	113.0			
	9400	HUAN	23 GRF	1519.5	2059.9	374.4	68.5	22.4		
	6700	CUBA	20 GRF	1525.0	1529.0	46.0	28.0	14.0		24R
	15000	CUBA	20 GRF	1527.0	1535.0	45.0	68.0	34.0		POL FAILURE
	600	HUMN	2 S/F	1638.0	1638.5	0.8	24.0	10.0		
	9400	HUAN	1 S	1700.2	1701.9	4.7	18.5	6.8		
	6700	CUBA	21 GRF	1701.0E	1709.0	35.0D	23.0			23R
	6700	CUBA	1 S	1705.5	1706.3	1.5	14.0	7.0		37R
	6700	CUBA	8 S	1711.0	1711.5	1.0	230.0	115.0		WR
	15000	CUBA	20 GRF	1712.0E	1713.0	31.0D	48.0	24.0		POL FAILURE
	600	HUMN	2 S/F	1723.0	1723.5	1.5	42.0	15.0		
	6700	CUBA	1 S	1723.3	1724.1	3.7	11.0	5.0		68R
	9400	HUAN	3 S	1801.4	1803.2	6.6	53.7	20.2		
	15000	CUBA	3 S	1822.8	1854.5		90.0	45.0		POL FAILURE
	15000	CUBA	21 GRF	1843.0	1906.0	44.0	33.0	16.0		POL FAILURE
	15000	CUBA	2 S/F	1844.3	1846.0	2.9	33.0	16.0		POL FAILURE
	6700	CUBA	20 GRF	1851.0	1854.0	47.0	18.0			21R RAIN
	9400	HUAN	2 S/F	1852.8	1854.9	11.5	25.9	9.2		
	8800	SGMR	4 S/F	1853.0E	1853.0	6.0D	46.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1853.0E	1854.0	6.0D	100.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1853.0E	1854.0	10.0D	94.0			QL=4 ST=2 TYP=3
8800	PALE	4 S/F	1853.0E	1853.0	10.0D	37.0			QL=4 ST=2 TYP=3	
9400	HUAN	1 S	1928.7	1930.4	5.8	7.4	3.1			
9400	HUAN	1 S	2003.6	2005.3	4.9	13.0	4.2			
9400	HUAN	2 S/F	2014.5	2016.7	8.0	11.1	3.6			
17000	NOBE	1 S	2241.3	2242.0	3.0	16.0			L,80.35GHZ:0	
17000	NOBE	1 S	2305.2	2305.7	3.0	14.0			L,80.35GHZ:0	
09	200	HIRA	44 NS	0203.0E	0738.0	780.0D	50.0	30.0		WL
	100	GORK	44 NS	0251.0E		399.0D		44.0		
	410	SVTO	43 NS	0340.0	0340.0	167.0D	290.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0340.0	0340.0	353.0D	400.0			QL=4 ST=2 TYP=1
	33	UPIC	44 NS	0400.0E		767.5D				
	245	PALE	44 NS	0419.0E	0419.0	36.0D	250.0			QL=4 ST=2 TYP=1
	410	PALE	44 NS	0419.0E	0419.0	36.0D	92.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	0429.0E	0438.0	299.0D	390.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	70.0			
	127	TORN	44 NS	0620.0E	1009.1	520.0D	1100.0	130.0		V=1
	260	ONDR	44 NS	0700.0E	1630.0	570.0D	153.0			
	280	CUBA	44 NS	1307.0E		466.0D		49.0		
	235	CUBA	44 NS	1307.0E		466.0D		30.0		
	245	SGMR	44 NS	1425.0E	1840.0	430.0D	200.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	1514.0E	1601.0	160.0D	270.0			QL=4 ST=2 TYP=1
	245	PALE	44 NS	1629.0E	0059.0	660.0D	270.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	2338.0E	2345.0	22.0D	74.0			QL=4 ST=3 TYP=1
	17000	NOBE	1 S	0023.0	0025.6	6.0	10.0			L,80.35GHZ:0
	245	LEAR	8 S	0042.0E	0042.0	U	51.0			QL=4 ST=2 TYP=3
	17000	NOBE	28 PRE	0121.4	0135.2	1013.8	46.0			L
	15400	PALE	49 GB	0133.0E	0138.0	115.0D	26000.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0133.0E	0138.0	176.0D	36000.0			QL=2 ST=2 TYP=6
	8800	PALE	49 GB	0135.0E	0138.0	106.0D	14000.0			QL=4 ST=2 TYP=6
	2840	PEKG	47 GB	0135.0	0137.0	151.0D	8545.0			
	8800	LEAR	49 GB	0135.0E	0138.0	174.0D	14000.0			QL=4 ST=2 TYP=6
35000	NOBE	47 GB	0135.2	0138.7	100.0	73030.0			L	
80000	NOBE	47 GB	0135.2	0138.7	100.0	21350.0			L	
17000	NOBE	47 GB	0135.2	0138.9	115.0	24060.0			L	
4995	PALE	49 GB	0136.0E	0138.0	159.0D	10000.0			QL=4 ST=2 TYP=6	

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Outstanding Occurrences

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
09	2695	PALE	49 GB	0136.0E	0139.0	159.0D	8300.0			QL=4 ST=2 TYP=6	
	1415	PALE	49 GB	0136.0E	0241.0	159.0D	57000.0			QL=4 ST=2 TYP=7	
	4995	LEAR	49 GB	0136.0E	0138.0	173.0D	10000.0			QL=4 ST=2 TYP=6	
	1415	LEAR	49 GB	0136.0E	0241.0	173.0D	42000.0			QL=4 ST=2 TYP=7	
	2695	LEAR	49 GB	0136.0E	0139.0	173.0D	8600.0			QL=2 ST=2 TYP=6	
	610	PALE	49 GB	0138.0E	0242.0	157.0D	17000.0			QL=4 ST=2 TYP=7	
	610	LEAR	49 GB	0138.0E	0242.0	171.0D	21000.0			QL=4 ST=2 TYP=7	
	500	HIRA	48 C	0138.5	0251.0	133.0	4800.0	700.0			SR
	500	HIRA	48 C	0138.5	0146.8		1600.0				WL
	410	PALE	49 GB	0139.0E	0251.0	160.0D	3500.0				QL=4 ST=2 TYP=7
	245	LEAR	49 GB	0139.0E	0159.0	170.0D	3100.0				QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0139.0E	0251.0	170.0D	3900.0				QL=4 ST=2 TYP=7
	200	HIRA	48 C	0139.3	0220.6	420.0D	3000.0	300.0			SR
	100	HIRA	48 C	0140.6	0142.8	118.0	7100.0	3500.0			SR
	245	PALE	49 GB	0141.0E	0159.0	158.0D	2800.0				QL=4 ST=2 TYP=6
	9100	GORK	30 PBI	0239.0E	0330.0	359.0D	170.0				
	9100	GORK	47 GB	0239.0E	0240.6	51.8D	4100.0				
	2950	GORK	47 GB	0242.0E	0242.5	39.0D	4300.0				
	2950	GORK	30 PBI	0242.0E	0306.5	336.0D	190.0				
	650	GORK	30 PBI	0243.0E	0337.0	304.2D	55.0				
	950	GORK	47 GB	0243.0E	0244.1	43.5D	42500.0				
	950	GORK	30 PBI	0243.0E	0326.4	189.9D	72.0				
	650	GORK	47 GB	0243.0E	0256.5		12600.0				
	650	GORK	47 GB	0243.0E	0243.5	54.0D	12600.0				
	100	GORK	22 GRF	0251.0E	0318.2	72.0D	4300.0				
	650	GORK	40 F	0337.0	0348.8	119.0	70.0				
	100	GORK	46 C	0427.5	0430.2	4.5	380.0				
	100	GORK	46 C	0427.5	0430.5		590.0				
	9100	GORK	2 S/F	0500.0	0501.6	6.7	33.0				
	17000	NOBE	1 S	0500.9	0501.7	1.5	18.0				L, 80.35GHZ:0
	15000	KISV	2 S/F	0501.2	0501.7	0.8	41.0				
	9300	KISV	2 S/F	0501.3	0501.8	3.5	19.0				
	5900	KISV	2 S/F	0502.4	0503.2	2.5	10.0				
	9300	KISV	2 S/F	0527.2	0528.5	3.5	16.0				
	5900	KISV	45 C	0527.5	0528.6	8.0	12.0				
	5900	KISV	45 C	0527.5	0531.8		14.0				
	2840	PEKG	45 C	0547.0	0549.7	6.0	84.9				
	15400	LEAR	49 GB	0548.0E	0549.0	5.0D	580.0				QL=2 ST=2 TYP=6
	8800	LEAR	4 S/F	0548.0E	0549.0	4.0D	220.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0548.0E	0549.0	5.0D	210.0				QL=4 ST=2 TYP=3
	15400	SVTO	49 GB	0548.0E	0549.0	5.0D	560.0				QL=4 ST=2 TYP=6
	9100	GORK	4 S/F	0548.0	0549.7	9.6	252.0				
	9300	KISV	4 S/F	0548.0	0549.8	3.9	213.0				
	9300	KISV	29 PBI	0548.0	0551.9	12.9	30.0				
	17000	NOBE	7 C	0548.1	0549.8	10.0	500.0				L
	15000	KISV	4 S/F	0548.2	0550.1	2.5	368.0				
	5900	KISV	4 S/F	0548.2	0550.1	2.1	89.0				
	5900	KISV	29 PBI	0548.2	0550.3	21.7	36.0				
	15000	KISV	29 PBI	0548.2	0550.7	19.5	152.0				
	2950	GORK	3 S	0548.8	0549.7	3.8	64.0				
	80000	NOBE	3 S	0548.9	0549.8	3.0	27.0				
	35000	NOBE	3 S	0548.9	0549.8	4.0	228.0				L
	2695	LEAR	8 S	0549.0E	0549.0	1.0D	75.0				QL=2 ST=2 TYP=3
4995	LEAR	8 S	0549.0E	0549.0	1.0D	69.0				QL=4 ST=2 TYP=3	
1415	SVTO	8 S	0549.0E	0549.0	1.0D	34.0				QL=4 ST=2 TYP=3	
2695	SVTO	8 S	0549.0E	0549.0	2.0D	79.0				QL=4 ST=2 TYP=3	
4995	SVTO	8 S	0549.0E	0549.0	2.0D	75.0				QL=4 ST=2 TYP=3	
100	GORK	46 C	0630.7	0631.6	1.7	350.0					
100	GORK	46 C	0630.7	0631.9		470.0					
410	SVTO	8 S	0717.0E	0717.0	1.0D	56.0				QL=4 ST=2 TYP=3	
536	ONDR	42 SER	0720.0	1521.5	550.0	558.0					
100	GORK	8 S	0750.2	0750.3	0.8	2300.0					
9100	GORK	1 S	0831.4	0832.4	5.1	16.0					
950	GORK	21 GRF	0832.7	0840.6	18.8	3.0					
15000	KISV	23 GRF	0838.1	0845.4	14.6	28.0					
5900	KISV	23 GRF	0840.2	0849.1	11.5	12.0					
9300	KISV	4 S/F	0841.0	0847.0	8.6	61.0					
15400	SVTO	8 S	0846.0E	0846.0	2.0D	74.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	0846.0E	0846.0	1.0D	62.0				QL=4 ST=2 TYP=3	

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
09	9500	POTS	4 S/F	0846.0	0846.6	3.2	45.0			
	9100	GORK	2 S/F	0846.1	0846.9	2.7	55.0			
	15000	KISV	4 S/F	0846.4	0846.9	1.7	79.0			
	1470	POTS	4 S/F	0846.6	0847.2	2.4	8.0			
	2950	GORK	1 S	0846.7	0847.0	1.7	57.0			
	5900	KISV	4 S/F	0846.7	0847.1	1.3	28.0			
	950	GORK	1 S	0846.8	0847.0	1.0	12.0			
	5900	KISV	2 S/F	0859.7	0900.3	1.3	9.0			
	9300	KISV	1 S	0859.9	0900.4	0.9	16.0			
	100	GORK	41 F	0907.6	0908.2		260.0			
	100	GORK	41 F	0907.6	0907.8	0.7	580.0			
	9100	GORK	1 S	0925.3	0925.9	2.7	13.0			
	9500	POTS	4 S/F	0925.4	0952.0	38.6	152.0			
	9300	KISV	2 S/F	0925.6	0925.9	7.3	19.0			
	15000	KISV	2 S/F	0928.9	0930.4	3.7	24.0			
	9300	KISV	23 GRF	0942.0	0948.4	24.6	19.0			
	15000	KISV	23 GRF	0942.2	0945.7	21.1	32.0			
	5900	KISV	23 GRF	0942.2	0947.8	24.7	13.0			
	15000	KISV	4 S/F	0948.3	0952.1	5.7	213.0			
	810	KRAK	42 SER	0948.7	0949.1	4.0	24.0			
	5900	KISV	46 C	0948.8	0952.1	8.5	80.0			
	5900	KISV	46 C	0948.8	0951.7		76.0			
	9300	KISV	46 C	0948.9	0952.2	7.7	147.0			
	9300	KISV	46 C	0948.9	0951.4		133.0			
	8800	SVTO	4 S/F	0949.0E	0952.0	6.0D	160.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0949.0E	0952.0	6.0D	200.0			QL=4 ST=2 TYP=3
	1470	POTS	4 S/F	0949.0U	0951.0U	6.5D	19.0			
	8800	SGMR	8 S	0950.0E	0952.0	2.0D	150.0			QL=4 ST=3 TYP=3
	15400	SGMR	4 S/F	0950.0E	0952.0	3.0D	140.0			QL=4 ST=3 TYP=3
	3013	IZMI	5 S	0950.0	0952.4	4.0	18.0	9.0		
	3000	POTS	4 S/F	0950.5U	0952.4	4.5D	22.0			
	2695	SVTO	8 S	0951.0E	0952.0	1.0D	39.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0951.0E	0952.0	2.0D	59.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	0952.0E	0952.0	U	56.0			QL=2 ST=2 TYP=3
	5900	KISV	23 GRF	1010.7	1011.9	22.0	14.0			
	245	SVTO	8 S	1019.0E	1019.0	1.0D	80.0			QL=2 ST=2 TYP=3
	204	IZMI	5 S	1024.5	1026.0	7.5	10.0	5.0		
	5900	KISV	4 S/F	1024.6	1025.9	4.6	19.0			
	15000	KISV	2 S/F	1031.4	1031.8	1.5	25.0			
	15400	SGMR	4 S/F	1055.0E	1058.0	5.0D	70.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1055.0E	1058.0	6.0D	88.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1055.0E	1058.0	7.0D	70.0			QL=4 ST=2 TYP=3
	810	KRAK	8 S	1055.3	1055.5	0.6	13.0			
	9500	POTS	4 S/F	1055.5	1058.5	15.1	58.0			
	15000	KISV	29 PBI	1055.5	1101.6	8.4	19.0			
	15000	KISV	4 S/F	1055.5	1058.7	5.7	70.0			
	9300	KISV	29 PBI	1055.7	1103.1	10.3	19.0			
	9300	KISV	4 S/F	1055.7	1058.6	7.4	60.0			
	5900	KISV	29 PBI	1055.8	1100.1	21.9	12.0			
	5900	KISV	4 S/F	1055.8	1058.8	4.1	29.0			
	8800	SGMR	8 S	1058.0E	1058.0	1.0D	59.0			QL=4 ST=2 TYP=3
	204	IZMI	8 S	1104.0	1104.1	0.2	500.0	450.0		
	204	IZMI	5 S	1139.8	1141.0U		380.0			
	15000	KISV	2 S/F	1204.5	1204.8	2.5	24.0			
	600	HUMN	42 SER	1222.0		180.0	420.0			
	410	SGMR	8 S	1222.0E	1223.0	2.0D	230.0			QL=4 ST=3 TYP=3
	610	SGMR	8 S	1222.0E	1223.0	1.0D	140.0			QL=4 ST=3 TYP=3
	610	SVTO	8 S	1222.0E	1223.0	1.0D	85.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	1222.0E	1223.0	1.0D	110.0			QL=4 ST=2 TYP=3
	430	KRAK	42 SER	1222.4	1222.5	0.5	500.0D			
	9400	HUAN	1 S	1226.0	1227.2	5.6	8.0	2.9		
	9300	KISV	2 S/F	1226.4	1227.1	5.3	15.0			
	9400	HUAN	1	1243.0	1245.2	5.6	9.6	3.6		
	5900	KISV	4 S/F	1243.4	1245.0	3.1	16.0			
	15000	KISV	2 S/F	1243.4	1244.8	5.1	21.0			
	808	ONDR	42 SER	1305.0	1401.6	140.0	1322.0U			
	9500	POTS	42 SER	1305.2	1307.4	30.3	162.0			
	9400	HUAN	4 S/F	1305.8	1317.0		166.4			
	9400	HUAN	4 S/F	1305.8	1307.3	20.1	179.2	49.6		

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
09	6700	CUBA	30 PBI	1306.0E		39.0D	50.0			27R
	8800	SGMR	4 S/F	1306.0E	1307.0	6.0D	200.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1306.0E	1307.0	2.0D	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1306.0E	1307.0	3.0D	190.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1306.0E	1307.0	2.0D	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1306.0E	1307.0	8.0D	210.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1306.0E	1317.0	13.0D	250.0			QL=4 ST=3 TYP=5
	8800	SVTO	4 S/F	1306.0E	1307.0	13.0D	190.0			QL=4 ST=2 TYP=5
	5900	KISV	46 C	1306.1	1317.0		102.0			
	5900	KISV	46 C	1306.1	1307.5	23.8	230.0			
	15000	CUBA	46 C	1306.4	1317.1	10.7	330.0	63.0		POL FAILURE
	15000	KISV	45 C	1306.4	1317.2	23.2	293.0			
	15000	CUBA	46 C	1306.4	1307.5		201.0			POL FAILURE
	15000	KISV	45 C	1306.4	1307.5		187.0			
	3000	POTS	29 PBI	1306.5	1307.5	38.5	129.0			
	8800	SGMR	4 S/F	1315.0E	1317.0	5.0D	160.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1315.0E	1317.0	5.0D	310.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1316.0E	1317.0	2.0D	64.0			QL=4 ST=2 TYP=3
	9300	KISV	46 C	1317.4E	1317.4		161.0			
	610	SGMR	49 GB	1323.0E	1323.0	3.0D	680.0			QL=4 ST=3 TYP=6
	245	SVTO	8 S	1323.0E	1324.0	2.0D	150.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1323.0E	1324.0	1.0D	770.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1324.0E	1324.0	1.0D	91.0			QL=4 ST=2 TYP=3
	9400	HUAN	30 PBI	1325.9	1325.9	59.7	22.4	6.2		
	15000	CUBA	29 PBI	1328.0		19.0	29.0	14.0		POL FAILURE
	9400	HUAN	2 S/F	1337.9	1338.8	3.8	8.8	3.1		
	9400	HUAN	2 S/F	1348.8	1350.8	4.2	9.6	3.4		
	1415	SGMR	8 S	1350.0E	1350.0	1.0D	150.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1350.0E	1351.0	1.0D	510.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	1350.0E	1350.0	1.0D	180.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1350.0E	1351.0	1.0D	440.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1402.0E	1402.0	2.0D	730.0			QL=4 ST=3 TYP=6
	245	SGMR	8 S	1402.0E	1402.0	U	34.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1402.0E	1402.0	U	99.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1402.0E	1402.0	1.0D	97.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1402.0E	1402.0	2.0D	870.0			QL=4 ST=2 TYP=6
	6700	CUBA	20 GRF	1414.0	1421.0	13.0	8.0	4.0		19R
	610	SGMR	49 GB	1416.0E	1416.0	2.0D	530.0			QL=4 ST=2 TYP=6
	610	SVTO	8 S	1416.0E	1416.0	1.0D	450.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1430.0E	1431.0	1.0D	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1433.0E	1433.0	U	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1435.5	1438.1	4.4	12.8	4.2		
	15000	CUBA	1 S	1437.8	1438.0	1.5	27.0	13.0		POL FAILURE
	6700	CUBA	1 S	1437.9	1438.1	1.1	9.0	4.0		14R
	610	SGMR	8 S	1442.0E	1442.0	U	62.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1506.0E	1506.0	U	230.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1506.0E	1506.0	U	220.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1511.3	1511.7	1.7	8.0	4.0		57R
	610	SGMR	49 GB	1521.0E	1521.0	1.0D	2700.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	1521.0E	1521.0	U	80.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1521.0E	1522.0	2.0D	84.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1521.0E	1521.0	1.0D	4000.0			QL=4 ST=2 TYP=6
	6700	CUBA	20 GRF	1539.0	1547.0	12.0	17.0	8.0		17R
	9400	HUAN	2 S/F	1539.7	1541.9	4.8	16.0	5.2		
	15000	CUBA	2 S/F	1540.8	1542.8	3.2	30.0	15.0		POL FAILURE
	410	SGMR	8 S	1604.0E	1604.0	U	53.0			QL=4 ST=2 TYP=3
	15000	CUBA	20 GRF	1658.0	1705.0	87.0	26.0	13.0		POL FAILURE
	600	HUMN	2 S/F	1715.0	1717.0	2.5	50.0	15.0		
	245	PALE	4 S/F	1715.0E	1716.0	3.0D	180.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	1716.0E	1717.0	2.0D	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1716.0E	1716.0	1.0D	270.0			QL=4 ST=2 TYP=3
	8800	SGMR	49 GB	1718.0E	1718.0	1.0D	1100.0			QL=4 ST=2 TYP=6
	610	SGMR	8 S	1721.0E	1722.0	1.0D	80.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1721.0E	1722.0	5.0D	77.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1721.5	1722.0	2.0	36.0	12.0		
	245	PALE	49 GB	1736.0E	1736.0	1.0D	810.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1736.0E	1736.0	1.0D	670.0			QL=2 ST=3 TYP=6
	245	SVTO	49 GB	1736.0E	1736.0	1.0D	530.0			QL=2 ST=2 TYP=6
	15000	CUBA	21 GRF	1807.0	1818.0	18.0	47.0	23.0		POL FAILURE

S O L A R R A D I O E M I S S I O N
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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
09	610	PALE	49 GB	1808.0E	1809.0	4.0D	1200.0			QL=4 ST=2 TYP=6	
	610	SGMR	49 GB	1808.0E	1809.0	3.0D	1200.0			QL=4 ST=2 TYP=6	
	600	HUMN	4 S/F	1808.5	1809.0	2.5	300.0	75.0			
	610	SGMR	8 S	1811.0E	1811.0	1.0D	450.0			QL=4 ST=2 TYP=3	
	9400	HUAN	45 C	1812.8	1813.9	8.0	62.4	20.4			
	15400	PALE	4 S/F	1813.0E	1814.0	5.0D	100.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1813.0E	1813.0	4.0D	44.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	1813.0E	1814.0	4.0D	94.0			QL=4 ST=2 TYP=3	
	15000	CUBA	2 S/F	1813.5	1814.3	4.5	114.0	57.0			POL FAILURE
	6700	CUBA	1 S	1813.8	1814.2	5.7	11.0	5.0			23R
	610	SGMR	8 S	1814.0E	1814.0	U	95.0				QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	1827.6	1830.4	7.7	41.6	16.2			
	610	SGMR	49 GB	1829.0E	1829.0	2.0D	750.0				QL=4 ST=2 TYP=6
	9400	HUAN	2 S/F	1849.1	1850.9	9.2	16.0	4.8			
	9400	HUAN	4 S/F	1911.2	1914.0	10.8	28.8	9.6			
	15400	PALE	8 S	1913.0E	1914.0	1.0D	70.0				QL=4 ST=2 TYP=3
	610	PALE	49 GB	1917.0E	1920.0	9.0D	1300.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	1917.0E	1920.0	9.0D	1200.0				QL=4 ST=2 TYP=6
	9400	HUAN	45 C	2000.8	2004.2U	32.2	179.2	49.6			
	15400	SGMR	49 GB	2001.0E	2004.0	10.0D	590.0				QL=4 ST=2 TYP=6
	8800	SGMR	4 S/F	2002.0E	2004.0	9.0D	270.0				QL=4 ST=2 TYP=3
	15400	PALE	49 GB	2002.0E	2004.0	10.0D	590.0				QL=4 ST=2 TYP=6
	2695	PALE	8 S	2003.0E	2004.0	1.0D	110.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	2003.0E	2004.0	1.0D	79.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	2003.0E	2004.0	2.0D	210.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	2003.0E	2004.0	1.0D	78.0				QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2003.0E	2004.0	1.0D	83.0				QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2003.0E	2004.0	1.0D	89.0				QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2003.0E	2004.0	1.0D	140.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	2004.0E	2004.0	U	33.0				QL=4 ST=2 TYP=3
	610	PALE	49 GB	2015.0E	2016.0	1.0D	590.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	2015.0E	2016.0	2.0D	890.0				QL=4 ST=2 TYP=6
	610	SGMR	8 S	2038.0E	2038.0	U	140.0				QL=4 ST=2 TYP=3
	610	PALE	49 GB	2104.0E	2105.0	3.0D	660.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	2104.0E	2105.0	4.0D	1000.0				QL=4 ST=2 TYP=6
	410	SGMR	8 S	2108.0E	2108.0	1.0D	65.0				QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2135.0E	2136.0	4.0D	250.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2135.0E	2135.0	U	55.0				QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2135.0E	2137.0	4.0D	330.0				QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	2143.5	2147.6	5.8	38.4	19.2			
	17000	NOBE	1 S	2144.9	2145.7	2.0	52.0				L, 80.35GHZ:0
	15400	PALE	8 S	2145.0E	2145.0	1.0D	57.0				QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2145.0E	2145.0	1.0D	74.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	2203.0E	2203.0	1.0D	52.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	2206.0E	2206.0	U	66.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2209.0E	2210.0	1.0D	140.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	2210.0E	2210.0	U	110.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	2224.0E	2224.0	U	110.0				QL=2 ST=2 TYP=3
	610	SGMR	8 S	2225.0E	2225.0	U	74.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2233.0E	2234.0	1.0D	770.0				QL=4 ST=2 TYP=6
410	SGMR	8 S	2234.0E	2234.0	U	130.0				QL=4 ST=2 TYP=3	
610	SGMR	49 GB	2235.0E	2236.0	3.0D	1300.0				QL=4 ST=2 TYP=6	
15400	PALE	4 S/F	2243.0E	2246.0	7.0D	200.0				QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	2243.0E	2246.0	7.0D	280.0				QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	2243.0E	2246.0	10.0D	150.0				QL=4 ST=2 TYP=3	
17000	NOBE	4 S/F	2243.2	2246.3	7.0	115.0				L, 80.35GHZ:BAD	
15400	SGMR	4 S/F	2244.0E	2246.0	5.0D	190.0				QL=4 ST=2 TYP=3	
2695	SGMR	8 S	2251.0E	2251.0	U	27.0				QL=4 ST=2 TYP=3	
410	PALE	8 S	2311.0E	2312.0	2.0D	280.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2311.0E	2312.0	1.0D	100.0				QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	2312.0E	2313.0	3.0D	62.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	2312.0E	2312.0	U	160.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2312.0E	2312.0	U	94.0				QL=4 ST=2 TYP=3	
17000	NOBE	1 S	2312.4	2313.2	4.0	37.0				L, 80.35GHZ:BAD	
610	PALE	8 S	2338.0E	2339.0	2.0D	200.0				QL=4 ST=2 TYP=3	
10	100	GORK	44 NS	0300.0E		600.0D		28.0			
	200	GORK	44 NS	0300.0E		600.0D		6.0			
	33	UPIC	44 NS	0400.0E		774.0D					

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
10	204	IZMI	43 NS	0600.0		360.0	40.0			
	536	ONDR	44 NS	0600.0E	1030.0U	630.0D				
	260	ONDR	44 NS	0600.0E	1354.5	630.0D	570.0			
	127	TORN	44 NS	0620.0E	1331.4	520.0D	1300.0	25.0		V=2, THUNDERSTOR
	235	CUBA	44 NS	1304.0E		436.0D		35.0		
	280	CUBA	44 NS	1304.0E		456.0D		35.0		
	245	SGMR	44 NS	1430.0E	1444.0	523.0D	240.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1729.0E	1959.0	337.0D	260.0			QL=4 ST=3 TYP=1
	200	HIRA	44 NS	2030.0E	2350.0	780.0D	30.0	26.0		WL
	410	LEAR	4 S/F	0007.0E	0008.0	5.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0008.0E	0012.0	5.0D	300.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0008.0E	0009.0	4.0D	1400.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	0009.0E	0009.0	5.0D	1300.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	0011.0E	0011.0	1.0D	330.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0025.0E	0027.0	5.0D	84.0			QL=4 ST=2 TYP=3
	17000	NOBE	4 S/F	0025.1	0027.3	15.0	68.0			L, 80.35GHZ:BAD
	8800	PALE	8 S	0026.0E	0027.0	1.0D	31.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0036.0E	0037.0	3.0D	66.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0037.0E	0037.0	1.0D	61.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0116.0E	0120.0	4.0D	7800.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	0117.0E	0120.0	6.0D	7400.0			QL=4 ST=2 TYP=7
	410	LEAR	49 GB	0118.0E	0120.0	8.0D	1700.0			QL=4 ST=3 TYP=6
	15400	PALE	8 S	0119.0E	0119.0	U	28.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0119.0E	0120.0	1.0D	150.0			QL=4 ST=2 TYP=3
	17000	NOBE	2 S/F	0119.1	0119.4	3.0	28.0			L, 80.35GHZ:0
	410	LEAR	49 GB	0120.0E	0120.0	6.0D	1700.0			QL=4 ST=2 TYP=6
	17000	NOBE	1 S	0134.0	0135.2	5.0	25.0			L, 80.35GHZ:0
	245	PALE	49 GB	0202.0E	0202.0	1.0D	1700.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	0202.0E	0202.0	1.0D	210.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0226.0	0228.8	6.0	492.0			
	17000	NOBE	7 C	0226.4	0229.1	9.0	1170.0			L
	2695	LEAR	4 S/F	0227.0E	0228.0	3.0D	300.0			QL=4 ST=2 TYP=3
	15400	LEAR	49 GB	0227.0E	0229.0	3.0D	1300.0			QL=4 ST=2 TYP=6
	4995	LEAR	8 S	0227.0E	0228.0	2.0D	240.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0227.0E	0227.0	1.0D	270.0			QL=4 ST=2 TYP=3
	15400	PALE	49 GB	0227.0E	0229.0	4.0D	1000.0			QL=4 ST=2 TYP=6
	2695	PALE	4 S/F	0227.0E	0228.0	3.0D	300.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0227.0E	0228.0	9.0D	290.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0227.0E	0227.0	2.0D	420.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0227.0E	0229.0	10.0D	330.0			QL=4 ST=2 TYP=3
	35000	NOBE	7 C	0227.1	0229.1	4.0	1030.0			L
	80000	NOBE	4 S/F	0227.1	0228.9	4.0	170.0			
	8800	LEAR	8 S	0228.0E	0229.0	2.0D	300.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0237.0E	0242.0	8.0D	6100.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0239.0E	0243.0	5.0D	820.0			QL=4 ST=2 TYP=6
	17000	NOBE	2 S/F	0239.6	0241.6	9.0	35.0			L, 80.35GHZ:0
	650	GORK	23 GRF	0257.0E	1010.0	613.0D	8.0			
	610	LEAR	49 GB	0258.0E	0307.0	10.0D	4000.0			QL=4 ST=2 TYP=6
	650	GORK	4 S/F	0258.3	0301.7	4.0	700.0			
	410	LEAR	4 S/F	0259.0E	0307.0	9.0D	340.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0300.0E	0300.0	1.0D	2700.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	0300.0E	0300.0	1.0D	260.0			QL=4 ST=2 TYP=3
	100	GORK	41 F	0300.1	0300.4	2.0	5300.0			
	200	GORK	46 C	0300.3	0300.4	3.9	3600.0			
	200	GORK	46 C	0300.3	0300.6		3700.0			
	950	GORK	23 GRF	0303.0E	0906.0	603.0D	17.0			
	9100	GORK	23 GRF	0304.0E	1135.4	605.0D	54.0			
	610	PALE	49 GB	0306.0E	0307.0	2.0D	3800.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	0306.0E	0307.0	1.0D	110.0			QL=4 ST=2 TYP=3
	2950	GORK	23 GRF	0306.0E	0522.4	315.0D	19.0			
	950	GORK	4 S/F	0306.6	0307.0	1.2	92.0			
	17000	NOBE	2 S/F	0337.2	0343.0	15.0	61.0			L, 80.35GHZ:0
	100	GORK	42 SER	0338.7	0349.0		3500.0			
	200	GORK	42 SER	0338.7	0341.2	15.7	5300.0			
	100	GORK	42 SER	0338.7	0341.2	21.8	6000.0			
	200	GORK	42 SER	0338.7	0348.9		5300.0			
	650	GORK	41 F	0340.1	0346.0U		130.0D			
	650	GORK	41 F	0340.1	0341.2	13.0	130.0			
	650	GORK	41 F	0340.1	0344.7		130.0			

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

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Jun 91

JUNE 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
10	610 PALE	8 S	0341.0E	0341.0	U	450.0			QL=4 ST=2 TYP=3
	410 PALE	49 GB	0341.0E	0341.0	U	1600.0			QL=4 ST=2 TYP=6
	410 SVTO	49 GB	0341.0E	0341.0	U	1100.0			QL=2 ST=2 TYP=6
	245 SVTO	49 GB	0341.0E	0341.0	U	1900.0			QL=2 ST=2 TYP=6
	950 GORK	41 F	0341.0	0341.2	8.1	7.0			
	950 GORK	41 F	0341.0	0346.5		16.0			
	950 GORK	41 F	0341.0	0348.9		15.0			
	410 LEAR	49 GB	0343.0E	0350.0	8.0D	1000.0			QL=4 ST=2 TYP=6
	610 LEAR	49 GB	0343.0E	0352.0	10.0D	760.0			QL=4 ST=2 TYP=6
	245 LEAR	49 GB	0343.0E	0349.0	11.0D	750.0			QL=4 ST=2 TYP=6
	610 PALE	49 GB	0344.0E	0351.0	8.0D	680.0			QL=4 ST=2 TYP=7
	610 SVTO	8 S	0345.0E	0346.0	1.0D	280.0			QL=2 ST=2 TYP=3
	245 PALE	49 GB	0348.0E	0348.0	1.0D	840.0			QL=4 ST=2 TYP=6
	245 SVTO	49 GB	0348.0E	0348.0	3.0D	640.0			QL=2 ST=2 TYP=6
	410 PALE	8 S	0349.0E	0349.0	1.0D	75.0			QL=4 ST=2 TYP=3
	245 PALE	49 GB	0353.0E	0353.0	U	510.0			QL=4 ST=2 TYP=6
	17000 NOBE	2 S/F	0358.3	0404.7	23.0	39.0			0,80.35GHZ:0
	5900 KISV	21 GRF	0359.8	0409.8	34.2	10.0			
	15000 KISV	21 GRF	0401.1	0404.8	11.0	15.0			
	9300 KISV	21 GRF	0401.2	0404.9	16.6	21.0			
	200 GORK	42 SER	0408.8	0423.1	66.2	450.0			
	200 GORK	42 SER	0408.8	0507.2		300.0			
	100 GORK	47 GB	0414.0	0438.8		16500.0			
	100 GORK	47 GB	0414.0	0429.8	61.4	7000.0			
	15000 KISV	2 S/F	0414.6	0415.6	3.7	12.0			
	610 PALE	8 S	0417.0E	0417.0	1.0D	220.0			QL=4 ST=2 TYP=3
	610 SVTO	8 S	0417.0E	0417.0	1.0D	260.0			QL=4 ST=2 TYP=3
	650 GORK	41 F	0417.0	0428.1		42.0			
	600 HUMN	2 S/F	0417.0	0417.5	1.0	54.0	20.0		
	650 GORK	41 F	0417.0	0417.6	10.6	130.0			
	650 GORK	41 F	0417.0	0422.8		44.0			
	245 PALE	8 S	0422.0E	0423.0	1.0D	87.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	0423.0E	0423.0	U	85.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0427.0E	0427.0	U	58.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0432.0E	0432.0	1.0D	67.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0435.0E	0436.0	1.0D	62.0			QL=4 ST=2 TYP=3
	17000 NOBE	4 S/F	0441.7	0442.7	13.0	153.0			L,80.35GHZ:0
	15000 KISV	46 C	0441.8	0447.1		40.0			
	15000 KISV	46 C	0441.8	0449.4		36.0			
	15000 KISV	46 C	0441.8	0442.8	14.5	75.0			
	9100 GORK	46 C	0442.0	0447.0		44.0			
	15400 PALE	8 S	0442.0E	0442.0	2.0D	200.0			QL=4 ST=2 TYP=3
	8800 SVTO	20 GRF	0442.0E	0449.0	10.0D	68.0			QL=4 ST=2 TYP=2
	15400 SVTO	4 S/F	0442.0E	0442.0	10.0D	160.0			QL=4 ST=2 TYP=3
	9100 GORK	46 C	0442.0	0449.3		50.0			
	9100 GORK	46 C	0442.0	0443.3	12.7	50.0			
	9300 KISV	46 C	0442.1	0447.0		44.0			
	9300 KISV	46 C	0442.1	0443.4		53.0			
	9300 KISV	46 C	0442.1	0448.9	12.2	62.0			
	5900 KISV	46 C	0442.4	0443.2	13.8	26.0			
	5900 KISV	46 C	0442.4	0443.4		19.0			
	2950 GORK	4 S/F	0442.4	0442.5	1.1	72.0			
	610 PALE	49 GB	0453.0E	0455.0	2.0D	1700.0			QL=4 ST=2 TYP=6
650 GORK	4 S/F	0453.6	0454.8	2.1	330.0				
600 HUMN	2 S/F	0453.8	0454.5	2.0	240.0	70.0			
9300 KISV	21 GRF	0501.8	0503.9	7.9	26.0				
650 GORK	41 F	0503.8	0522.0		450.0				
650 GORK	41 F	0503.8	0509.1	42.3	340.0				
650 GORK	41 F	0503.8	0513.5		22400.0				
17000 NOBE	1 S	0504.8	0505.6	2.0	22.0			L,80.35GHZ:0	
410 LEAR	8 S	0506.0E	0507.0	2.0D	120.0			QL=4 ST=2 TYP=3	
610 LEAR	4 S/F	0506.0E	0509.0	3.0D	350.0			QL=4 ST=2 TYP=3	
600 HUMN	2 S/F	0506.8	0507.0	0.5	43.0	19.0			
245 LEAR	8 S	0507.0E	0507.0	1.0D	220.0			QL=4 ST=2 TYP=3	
610 SVTO	8 S	0507.0E	0509.0	2.0D	370.0			QL=4 ST=2 TYP=3	
245 SVTO	8 S	0507.0E	0507.0	U	210.0			QL=4 ST=2 TYP=3	
410 SVTO	8 S	0507.0E	0507.0	U	130.0			QL=4 ST=2 TYP=3	
600 HUMN	2 S/F	0508.6	0509.2	2.0	122.0	26.0			
410 SVTO	8 S	0511.0E	0511.0	2.0D	100.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	245	SVTO	4 S/F	0511.0E	0511.0	3.0D	260.0			QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	0511.1	0513.0	6.4	482.0	72.0		
	610	SVTO	49 GB	0512.0E	0513.0	3.0D	27000.0			QL=4 ST=2 TYP=6
	950	GORK	4 S/F	0512.4	0513.5	1.7	104.0			
	1415	SVTO	8 S	0513.0E	0513.0	U	73.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0518.0E	0522.0	5.0D	360.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0518.0E	0522.0	5.0D	120.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0518.0E	0522.0	4.0D	440.0			QL=4 ST=2 TYP=5
	600	HUMN	2 S/F	0518.0	0519.4	2.3	162.0	27.0		
	950	GORK	46 C	0519.3	0519.5	3.4	7.0			
	950	GORK	46 C	0519.3	0521.8		8.0			
	9100	GORK	46 C	0519.8	0532.0		30.0			
	9100	GORK	46 C	0519.8	0527.4		36.0			
	9100	GORK	46 C	0519.8	0523.6	21.3	27.0			
	600	HUMN	2 S/F	0520.6	0522.0	2.1	166.0	71.0		
	17000	NOBE	2 S/F	0522.1	0523.5	35.0	38.0			L,80.35GHZ:0
	15000	KISV	21 GRF	0522.2	0526.5	9.0	19.0			
	9300	KISV	21 GRF	0523.3	0527.4	13.0	21.0			
	5900	KISV	22 GRF	0523.6	0528.3	18.0	10.0			
	5900	KISV	22 GRF	0523.6	0539.6		12.0			
	15000	KISV	22 GRF	0531.2	0552.3	28.3	13.0			
	100	GORK	41 F	0534.8	0545.7		4500.0			
	100	GORK	41 F	0534.8	0543.9	11.1	5000.0			
	245	SVTO	8 S	0538.0E	0539.0	1.0D	120.0			QL=4 ST=2 TYP=3
	200	GORK	41 F	0543.2	0544.0	2.5	1800.0			
	5900	KISV	45 C	0546.4	0552.3		33.0			
	5900	KISV	45 C	0546.4	0548.7	11.2	52.0			
	9300	KISV	45 C	0546.5	0552.3		59.0			
	9300	KISV	45 C	0546.5	0548.6	10.0	71.0			
	9100	GORK	46 C	0546.6	0552.2		40.0			
	9100	GORK	46 C	0546.6	0601.5		30.0			
	9100	GORK	46 C	0546.6	0548.6	27.2	50.0			
	5900	KISV	22 GRF	0600.4	0608.0		7.0			
	5900	KISV	22 GRF	0600.4	0601.6	13.2	9.0			
	9300	KISV	2 S/F	0600.5	0601.6	5.6	25.0			
	950	GORK	4 S/F	0606.7	0606.9	0.4	32.0			
	100	GORK	42 SER	0633.9	0650.5		4800.0			
	100	GORK	42 SER	0633.9	0642.6	92.1	1500.0			
	204	IZMI	42 SER	0637.0	0650.0	87.0	1300.0			
	2850	CRIM	1 S	0638.8	0641.3	6.0	22.0	7.0		
	808	ONDR	41 F	0640.0	1030.0U	550.0				
	600	HUMN	4 S/F	0646.3	0658.5	23.4	778.0	144.0		
	650	GORK	49 GB	0646.8	0658.1		7540.0			
	650	GORK	49 GB	0646.8	0650.4		1190.0			
	650	GORK	49 GB	0646.8	0647.4	22.7	600.0			
	610	SVTO	49 GB	0647.0E	0658.0	14.0D	10000.0			QL=4 ST=2 TYP=7
	410	SVTO	49 GB	0647.0E	0647.0	10.0D	810.0			QL=4 ST=2 TYP=6
	245	SVTO	4 S/F	0649.0E	0650.0	8.0D	280.0			QL=4 ST=2 TYP=3
	1470	POTS	40 F	0649.0	0703.4	36.0	46.0			
	200	GORK	41 F	0650.0	0650.4	6.4	1100.0			
	950	GORK	41 F	0650.2	0651.0		18.0			
	950	GORK	41 F	0650.2	0722.2		23.0			
	950	GORK	41 F	0650.2	0706.2		36.0			
	5900	KISV	21 GRF	0650.2	0703.4	21.4	9.0			
	950	GORK	41 F	0650.2	0718.5		25.0			
	950	GORK	41 F	0650.2	0650.6	52.1	20.0			
	950	GORK	41 F	0650.2	0658.8		11.0			
	950	GORK	41 F	0650.2	0741.9		43.0			
	610	SVTO	49 GB	0701.0E	0704.0	8.0D	1600.0			QL=4 ST=2 TYP=6
	410	SVTO	4 S/F	0702.0E	0704.0	4.0D	380.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0703.0E	0703.0	3.0D	65.0			QL=4 ST=2 TYP=3
	15000	KISV	2 S/F	0705.0	0706.5	3.9	15.0			
	610	LEAR	8 S	0722.0E	0723.0	1.0D	250.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0722.0E	0723.0	2.0D	840.0			QL=4 ST=2 TYP=6
	610	SVTO	8 S	0722.0E	0723.0	1.0D	220.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0722.0E	0723.0	2.0D	790.0			QL=4 ST=2 TYP=6
	600	HUMN	2 S/F	0722.1	0723.3	1.6	90.0	15.0		
	430	KRAK	42 SER	0722.7	1311.0		200.0D			
	430	KRAK	42 SER	0722.7	1020.0		200.0D			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
10	430	KRAK	42 SER	0722.7	1226.0		200.00			
	430	KRAK	42 SER	0722.7	0802.0		200.00			
	430	KRAK	42 SER	0722.7	0820.0		200.00			
	430	KRAK	42 SER	0722.7	0752.0U		200.00			
	430	KRAK	42 SER	0722.7	1303.0U		200.00			
	430	KRAK	42 SER	0722.7	1205.0U		200.00			
	430	KRAK	42 SER	0722.7	0740.0U		200.00			
	430	KRAK	42 SER	0722.7	0723.0U	358.80	200.00			
	430	KRAK	42 SER	0722.7	1018.3		200.00			
	430	KRAK	42 SER	0722.7	0905.5		200.00			
	430	KRAK	42 SER	0722.7	1030.5U		200.00			
	430	KRAK	42 SER	0722.7	1116.8		200.00			
	810	KRAK	8 S	0722.8	0723.0	0.6	29.0			
	650	GORK	41 F	0722.8	0723.1	18.2	180.0			
	650	GORK	41 F	0722.8	0730.5		1690.0			
	15000	KISV	21 GRF	0727.4	0729.3	9.8	24.0			
	9100	GORK	22 GRF	0728.3	0735.7	15.5	32.0			
	9300	KISV	21 GRF	0728.6	0735.7	14.4	33.0			
	600	HUMN	4 S/F	0728.9	0732.1	5.9	115.0	37.0		
	610	LEAR	4 S/F	0729.0E	0729.0	4.0D	250.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0729.0E	0729.0	5.0D	380.0			QL=4 ST=2 TYP=3
	810	KRAK	45 C	0729.2	0729.7	5.7	78.0	17.0		
	5900	KISV	21 GRF	0732.6	0735.5	23.0	15.0			
	600	HUMN	2 S/F	0737.8	0739.7	2.5	43.0	6.0		
	410	SVTO	8 S	0738.0E	0739.0	2.0D	380.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0738.0E	0738.0	1.0D	360.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0747.0E	0752.0	6.0D	1300.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0747.0E	0747.0	U	360.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0747.0E	0747.0	U	350.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0750.0E	0752.0	4.0D	13000.0			QL=4 ST=2 TYP=7
	610	SVTO	49 GB	0750.0E	0752.0	3.0D	13000.0			QL=4 ST=2 TYP=6
	650	GORK	47 GB	0750.2	0752.8	3.3	9050.0			
	600	HUMN	4 S/F	0750.3	0752.6	5.7	683.0	228.0		
	810	KRAK	47 GB	0750.4	0752.5	3.0	230.0D	80.0D		
	950	GORK	46 C	0750.5	0751.6	3.1	22.0			
	950	GORK	46 C	0750.5	0752.8		47.0			
	410	SVTO	49 GB	0751.0E	0752.0	2.0D	740.0			QL=4 ST=2 TYP=6
	950	GORK	2 S/F	0758.8	0759.2	0.7	12.0			
	245	SVTO	8 S	0800.0E	0801.0	1.0D	97.0			QL=4 ST=2 TYP=3
	200	GORK	8 S	0803.4	0803.5	0.2	450.0			
	600	HUMN	2 S/F	0816.4	0817.0	1.6	42.0	8.0		
	650	GORK	41 F	0816.4	0821.6		575.0			
	650	GORK	41 F	0816.4	0816.9	6.3	64.0			
	600	HUMN	4 S/F	0819.0	0821.0	3.7	278.0	81.0		
	410	LEAR	8 S	0820.0E	0821.0	2.0D	78.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0820.0E	0821.0	2.0D	530.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	0820.0E	0820.0	2.0D	800.0			QL=4 ST=2 TYP=6
	950	GORK	2 S/F	0820.4	0821.1	2.2	7.0			
	1470	POTS	4 S/F	0820.5	0821.4	2.5	14.0			
	410	SVTO	49 GB	0832.0E	0832.0	1.0D	540.0			QL=4 ST=2 TYP=6
	810	KRAK	4 S/F	0832.4	0832.7	1.0	38.0	4.0		
	950	GORK	2 S/F	0832.5	0833.0	1.4	21.0			
	5900	KISV	2 S/F	0837.1	0838.4	2.5	10.0			
	410	LEAR	4 S/F	0903.0E	0904.0	5.0D	290.0			QL=4 ST=3 TYP=3
	610	SVTO	49 GB	0903.0E	0904.0	5.0D	500.0			QL=4 ST=2 TYP=6
	600	HUMN	2 S/F	0903.3	0903.9	1.9	241.0	37.0		
	810	KRAK	46 C	0903.5U	0908.0	5.3D	140.0	15.0		
	650	GORK	4 S/F	0904.0	0906.8	4.3	380.0			
	600	HUMN	4 S/F	0905.6	0906.8	3.1	235.0	95.0		
	9100	GORK	46 C	0913.0	0927.0		23.0			
	15400	SVTO	4 S/F	0913.0E	0914.0	3.0D	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0913.0E	0914.0	3.0D	110.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0913.0	0914.0	15.8	115.0			
	9100	GORK	46 C	0913.0	0920.5		28.0			
	9300	KISV	4 S/F	0913.5	0914.1	4.1	82.0			
	15000	KISV	8 S	0913.6	0914.1	0.8	246.0			
	5900	KISV	45 C	0913.7	0914.2	5.1	20.0			
	5900	KISV	45 C	0913.7	0915.6		17.0			
	9300	KISV	2 S/F	0919.9	0920.5	1.7	14.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	5900	KISV	4 S/F	0920.1	0920.6	19.0	39.0			
	5900	KISV	4 S/F	0926.3	0927.3	3.0	43.0			
	9300	KISV	2 S/F	0926.4	0927.2	2.3	19.0			
	2950	GORK	23 GRF	0942.0	1101.2	211.0	22.0			
	1470	POTS	21 GRF	0945.0	1105.0	143.0	11.0			
	950	GORK	1 S	0945.8	0946.4	2.1	6.0			
	127	TORN	7 C	0946.0	0946.3	2.0	1300.0	520.0		
	204	IZMI	41 F	0946.0	0946.4	1.3	350.0			
	200	GORK	4 S/F	0946.1	0946.3	0.9	580.0			
	100	GORK	4 S/F	0946.1	0946.7	1.7	1400.0			
	650	GORK	1 S	0946.1	0946.8	1.5	7.0			
	810	KRAK	8 S	0953.6	0953.6	0.2	33.0			
	950	GORK	4 S/F	0953.6	0953.7	0.4	225.0			
	245	SGMR	8 S	1016.0E	1016.0	2.0D	70.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1018.0E	1018.0	2.0D	390.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1020.0	1102.8	44.0	360.0			
	200	GORK	41 F	1020.5	1021.3	1.5	800.0			
	950	GORK	46 C	1024.2	1031.4		52.0			
	950	GORK	46 C	1024.2	1030.4	8.4	57.0			
	600	HUMN	4 S/F	1026.5	1031.2	13.5	793.0	236.0		
	650	GORK	47 GB	1026.7	1031.3	13.3	8150.0			
	610	SGMR	49 GB	1027.0E	1031.0	10.0D	10000.0			QL=2 ST=2 TYP=6
	610	SVTO	49 GB	1027.0E	1031.0	10.0D	10000.0			QL=4 ST=2 TYP=6
	810	KRAK	49 GB	1027.0	1030.0U	11.3	210.0D	100.0D		
	1470	POTS	40 F	1027.6	1032.0	7.4	57.0			
	2950	GORK	46 C	1027.7	1029.1	7.5	34.0			
	2950	GORK	46 C	1027.7	1030.9		22.0			
	410	SGMR	49 GB	1028.0E	1031.0	3.0D	590.0			QL=2 ST=2 TYP=6
	4995	SVTO	8 S	1028.0E	1029.0	1.0D	39.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1028.0E	1031.0	3.0D	240.0			QL=4 ST=2 TYP=3
	100	GORK	41 F	1028.3	1028.9	3.0	2400.0			
	9100	GORK	46 C	1028.5	1029.0	4.5	40.0			
	9100	GORK	46 C	1028.5	1031.1		16.0			
	3013	IZMI	7 C	1028.5	1029.2	6.0	28.0	14.0		
	3000	POTS	40 F	1028.5	1029.4	6.5	28.0			
	9300	KISV	4 S/F	1028.6	1029.2	1.4	34.0			
	245	SGMR	49 GB	1029.0E	1029.0	1.0D	860.0			QL=2 ST=2 TYP=6
	1415	SGMR	8 S	1029.0E	1031.0	2.0D	57.0			QL=2 ST=2 TYP=5
	1415	SVTO	8 S	1029.0E	1031.0	2.0D	70.0			QL=4 ST=2 TYP=5
	245	SVTO	49 GB	1029.0E	1029.0	1.0D	780.0			QL=4 ST=2 TYP=6
	5900	KISV	4 S/F	1029.1	1029.2	3.0	121.0			
	100	GORK	41 F	1055.0	1055.2	8.6	1261.0			
	100	GORK	41 F	1055.0	1102.8		6000.0			
	15400	SGMR	4 S/F	1057.0E	1101.0	10.0D	470.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1057.0E	1101.0	12.0D	470.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	1057.0	1100.9	12.0	237.0			
	8800	SGMR	4 S/F	1058.0E	1101.0	9.0D	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1058.0E	1101.0	9.0D	190.0			QL=4 ST=2 TYP=3
	15000	KISV	45 C	1058.2	1059.1		62.0			
	15000	KISV	45 C	1058.2	1101.3	9.0	215.0			
	9300	KISV	4 S/F	1058.2	1101.3	9.8	171.0			
	950	GORK	46 C	1058.5	1101.0		22.0			
	950	GORK	46 C	1058.5	1058.5	3.3	26.0			
4995	SGMR	8 S	1100.0E	1101.0	2.0D	35.0			QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1100.0E	1101.0	5.0D	47.0			QL=4 ST=2 TYP=3	
127	TORN	4 S/F	1102.4	1102.7	1.3	3700.0	1900.0			
200	GORK	4 S/F	1102.7	1102.9	3.2	160.0				
410	SGMR	8 S	1116.0E	1116.0	1.0D	120.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1116.0E	1116.0	U	70.0			QL=4 ST=2 TYP=3	
600	HUMN	2 S/F	1125.3	1125.8	1.2	47.0	6.0			
650	GORK	41 F	1125.6	1133.1		55.0				
650	GORK	41 F	1125.6	1126.2	30.4	96.0				
650	GORK	41 F	1125.6	1146.5		38.0				
650	GORK	41 F	1125.6	1128.7		65.0				
650	GORK	41 F	1125.6	1138.9		57.0				
610	SGMR	4 S/F	1126.0E	1126.0	3.0D	150.0			QL=4 ST=3 TYP=3	
15400	SVTO	4 S/F	1126.0E	1128.0	7.0D	100.0			QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1127.0E	1128.0	5.0D	120.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1128.0E	1129.0	1.0D	60.0			QL=4 ST=2 TYP=3	

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Outstanding Occurrences

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m ² Hz)	Mean			
10	610	SGMR	8 S	1128.0E	1128.0	1.0D	82.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1128.0E	1128.0	1.0D	54.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	1128.0E	1128.0	1.0D	70.0			QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	1128.0E	1129.0	7.0D	280.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1128.0E	1129.0	2.0D	53.0			QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	1128.0E	1128.0	7.0D	49.0			QL=4 ST=2 TYP=3	
	600	HUMN	2 S/F	1128.3	1128.6	1.1	43.0	9.0			
	1470	POTS	4 S/F	1128.3	1128.7	3.2	41.0				
	950	GORK	4 S/F	1128.6	1129.0	0.9	450.0				
	2950	GORK	2 S/F	1128.6	1128.8	1.4	87.0				
	9300	KISV	22 GRF	1128.7	1131.5	11.8	12.0				
	810	KRAK	8 S	1128.7	1128.9	0.5	124.0				
	100	GORK	4 S/F	1133.0	1133.1	0.5	690.0				
	410	SGMR	8 S	1148.0E	1149.0	1.0D	450.0				QL=2 ST=2 TYP=3
	9400	HUAN	22 GRF	1150.3	1202.5	42.3	13.7	4.6			
	9300	KISV	23 GRF	1155.5	1159.9	8.6	17.0				
	100	GORK	42 SER	1155.6	1233.7		6600.0				
	100	GORK	42 SER	1155.6	1200.8	67.4	5700.0				
	100	GORK	42 SER	1155.6	1231.9		6600.0				
	650	GORK	4 S/F	1158.8	1205.2	9.3	400.0				
	245	SGMR	49 GB	1200.0E	1200.0	1.0D	2600.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1200.0E	1200.0	1.0D	2400.0				QL=4 ST=3 TYP=6
	410	SVTO	4 S/F	1200.0E	1201.0	5.0D	490.0				QL=4 ST=3 TYP=3
	610	SVTO	49 GB	1200.0E	1205.0	7.0D	520.0				QL=4 ST=3 TYP=6
	127	TORN	4 S/F	1200.0	1200.8	1.6	3200.0	1100.0			
	200	GORK	4 S/F	1200.4	1200.7	1.4	3500.0				
	610	SGMR	49 GB	1201.0E	1205.0	7.0D	640.0				QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1201.0E	1201.0	7.0D	890.0				QL=4 ST=2 TYP=6
	2850	CRIM	8 S	1201.1	1201.4	0.6	1000.0				
	9100	GORK	1 S	1201.3	1202.1	1.7	13.0				
	9300	KISV	2 S/F	1201.4	1202.0	2.2	19.0				
	600	HUMN	4 S/F	1201.4	1204.7	6.4	170.0	45.0			
	810	KRAK	45 C	1201.5	1204.9	11.7	125.0	46.0			
	5900	KISV	2 S/F	1201.7	1202.2	1.1	10.0				
	950	GORK	2 S/F	1202.0	1205.0	3.9	9.0				
	2850	CRIM	30 PBI	1203.2	1235.0	90.0	84.0				
	2850	CRIM	47 GB	1203.2	1211.6	31.8	975.0	325.0			
	200	GORK	41 F	1228.2	1233.8	7.3	360.0				
	810	KRAK	8 S	1230.0	1230.5	0.6	33.0				
	650	GORK	41 F	1230.3	1234.1		107.0				
	650	GORK	41 F	1230.3	1230.8	6.5	75.0				
	127	TORN	46 C	1230.6	1234.0	4.0	1500.0	160.0			
	610	SGMR	8 S	1233.0E	1234.0	1.0D	160.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1233.0E	1234.0	1.0D	130.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1233.0E	1233.0	1.0D	150.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1233.0E	1234.0	10.0D	110.0				QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1233.3	1234.1	1.8	81.0	23.0			
	5900	KISV	2 S/F	1233.5	1233.8	1.4	9.0				
	610	SVTO	8 S	1234.0E	1234.0	U	140.0				QL=4 ST=2 TYP=3
	810	KRAK	2 S/F	1234.8	1235.6	2.0	13.0	5.0			
	9100	GORK	46 C	1240.5	1246.1	22.9	220.0				
	9100	GORK	46 C	1240.5	1302.2		28.0				
	9300	KISV	23 GRF	1240.8	1242.0	18.4	12.0				
	5900	KISV	45 C	1240.8	1246.2		25.0				
5900	KISV	45 C	1240.8	1244.9	10.1	30.0					
9400	HUAN	45 C	1241.6	1245.8	13.2	152.2	48.6				
9300	KISV	4 S/F	1243.7	1246.2	7.5	132.0					
15400	SGMR	4 S/F	1244.0E	1246.0	5.0D	370.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1244.0E	1244.0	U	150.0				QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1245.0E	1246.0	4.0D	170.0				QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1245.0E	1246.0	2.0D	350.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1245.0E	1246.0	2.0D	170.0				QL=4 ST=2 TYP=3	
15000	KISV	4 S/F	1245.8	1246.2	3.3	274.0					
410	SGMR	8 S	1249.0E	1249.0	1.0D	87.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	1249.0E	1249.0	1.0D	260.0				QL=2 ST=2 TYP=3	
2950	GORK	3 S	1252.5	1253.3	2.5	26.0					
3000	POTS	42 SER	1252.7	1302.5U	12.3	38.0					
600	HUMN	2 S/F	1252.9	1253.4	2.1	100.0	25.0				
410	SGMR	8 S	1253.0E	1253.0	U	31.0				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
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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
10	610	SGMR	8 S	1253.0E	1253.0	U	410.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1253.0E	1253.0	U	70.0			QL=4 ST=2 TYP=3	
	2695	SGMR	8 S	1253.0E	1253.0	U	43.0			QL=4 ST=2 TYP=3	
	1415	SVTO	8 S	1253.0E	1253.0	U	68.0			QL=4 ST=2 TYP=3	
	610	SVTO	49 GB	1253.0E	1253.0	U	550.0			QL=4 ST=2 TYP=6	
	1470	POTS	42 SER	1253.0U	1302.0U	28.5D	106.0				
	810	KRAK	8 S	1253.1	1253.2	1.7	210.0D				
	650	GORK	4 S/F	1253.1	1253.5	1.3	345.0				
	9400	HUAN	30 PBI	1254.8	1254.8	133.8	20.5	9.8			
	810	KRAK	47 GB	1300.5	1302.5U	6.5	210.0D	100.0D			
	950	GORK	4 S/F	1300.7	1302.8	3.8	112.0				
	2950	GORK	4 S/F	1300.7	1302.8	5.2	44.0				
	650	GORK	47 GB	1300.9	1302.5	6.9	34700.0				
	600	HUMN	4 S/F	1300.9	1302.7	6.9	1135.0	272.0			
	9400	HUAN	3 S	1301.0	1302.0	3.6	22.2	10.0			
	410	SGMR	4 S/F	1301.0E	1302.0	3.0D	450.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1301.0E	1302.0	3.0D	140.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1301.0E	1302.0	3.0D	64.0				QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1301.0E	1302.0	7.0D	39000.0				QL=4 ST=2 TYP=6
	2695	SVTO	8 S	1301.0E	1302.0	2.0D	52.0				QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1301.0E	1302.0	6.0D	42000.0				QL=4 ST=2 TYP=6
	1415	SVTO	4 S/F	1301.0E	1302.0	3.0D	140.0				QL=4 ST=2 TYP=3
	5900	KISV	4 S/F	1301.2	1302.2	4.0	43.0				
	9300	KISV	4 S/F	1301.3	1302.2	2.5	23.0				
	2850	CRIM	45 C	1303.0	1304.1	4.7	36.0	12.0			
	2850	CRIM	45 C	1303.0	1305.4		23.0				
	9400	HUAN	1 S	1307.2	1308.4	4.3	8.6	3.2			
	5900	KISV	1 S	1308.2	1308.4	2.1	8.0				
	9300	KISV	2 S/F	1308.2	1308.4	2.7	18.0				
	610	SGMR	49 GB	1310.0E	1310.0	1.0D	1500.0				QL=4 ST=3 TYP=6
	410	SGMR	8 S	1310.0E	1310.0	1.0D	35.0				QL=4 ST=3 TYP=3
	810	KRAK	2 S/F	1310.2	1310.8	0.8	29.0	7.0			
	600	HUMN	4 S/F	1313.7	1319.4	7.9	707.0	216.0			
	245	SGMR	49 GB	1314.0E	1315.0	9.0D	940.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	1314.0E	1319.0	7.0D	6300.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1314.0E	1315.0	2.0D	800.0				QL=4 ST=2 TYP=6
	610	SVTO	49 GB	1314.0E	1319.0	7.0D	7000.0				QL=4 ST=2 TYP=6
	810	KRAK	47 GB	1314.4	1319.0U	6.2	210.0D	90.0D			
	5900	KISV	4 S/F	1335.5	1337.7		22.0				
	9400	HUAN	1 S	1336.0	1337.6	3.3	12.0	4.4			
	4995	SGMR	8 S	1337.0E	1337.0	U	23.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1337.0E	1337.0	U	260.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1337.0E	1337.0	U	230.0				QL=4 ST=2 TYP=3
	9300	KISV	1 S	1337.1	1337.7	1.4	19.0				
	245	SGMR	8 S	1343.0E	1343.0	U	55.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1343.0E	1343.0	U	60.0				QL=4 ST=2 TYP=3
	15000	KISV	47 GB	1347.4	1356.4	11.6	3676.0				
	9300	KISV	47 GB	1349.3	1355.7	10.7	881.0				
	5900	KISV	29 PBI	1351.3	1358.3	8.0	78.0				
	5900	KISV	47 GB	1351.3	1355.6	7.0	463.0				
	9400	HUAN	45 C	1351.3	1356.6U	12.1	449.8	126.4			
	245	SVTO	49 GB	1352.0E	1354.0	5.0D	7400.0				QL=4 ST=2 TYP=7
15400	SGMR	49 GB	1352.0E	1355.0	18.0D	3800.0				QL=4 ST=2 TYP=7	
15400	SVTO	49 GB	1352.0E	1355.0	16.0D	3500.0				QL=4 ST=2 TYP=7	
3000	POTS	45 C	1352.5	1355.6	67.5	740.0					
600	HUMN	4 S/F	1352.6	1354.5	7.7	494.0	98.0				
610	SGMR	49 GB	1353.0E	1354.0	8.0D	2600.0				QL=4 ST=2 TYP=7	
1415	SVTO	49 GB	1353.0E	1355.0	8.0D	290.0				QL=4 ST=2 TYP=7	
610	SVTO	49 GB	1353.0E	1354.0	4.0D	2900.0				QL=4 ST=2 TYP=7	
8800	SGMR	49 GB	1353.0E	1355.0	17.0D	1000.0				QL=4 ST=2 TYP=7	
410	SGMR	49 GB	1353.0E	1354.0	17.0D	1300.0				QL=4 ST=2 TYP=7	
245	SGMR	49 GB	1353.0E	1354.0	17.0D	8200.0				QL=4 ST=2 TYP=7	
1415	SGMR	49 GB	1353.0E	1355.0	17.0D	310.0				QL=4 ST=2 TYP=7	
4995	SGMR	49 GB	1353.0E	1355.0	17.0D	370.0				QL=4 ST=2 TYP=7	
2695	SGMR	49 GB	1353.0E	1355.0	17.0D	500.0				QL=4 ST=2 TYP=7	
8800	SVTO	49 GB	1353.0E	1355.0	11.0D	970.0				QL=4 ST=2 TYP=7	
1470	POTS	45 C	1353.0U	1355.8	67.0U	330.0					
2695	SVTO	49 GB	1354.0E	1355.0	6.0D	470.0				QL=4 ST=2 TYP=7	
410	SVTO	49 GB	1354.0E	1354.0	1.0D	1600.0				QL=4 ST=2 TYP=7	

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

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Jun 91

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
10	4995	SVTO	49 GB	1354.0E	1355.0	9.0D	390.0			QL=4 ST=2 TYP=7
	127	TORN	46 C	1354.2	1402.1	12.0	4600.0	270.0		
	9300	KISV	29 PBI	1400.0E	1400.0	7.9D	73.0			
	9400	HUAN	30 PBI	1403.4	1403.4	65.3	56.4	21.8		
	410	SVTO	4 S/F	1411.0E	1411.0	13.0D	160.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1412.0E	1413.0	1.0D	22.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1412.0E	1413.0	8.0D	53.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1412.0E	1413.0	8.0D	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1412.0E	1413.0	6.0D	61.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1412.0E	1413.0	6.0D	33.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1412.0E	1413.0	11.0D	38.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1413.0E	1413.0	3.0D	57.0			QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	1415.5	1421.8	8.4	316.0	79.0		
	410	SGMR	8 S	1416.0E	1418.0	2.0D	140.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1416.0E	1416.0	1.0D	38.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1416.0E	1421.0	6.0D	1100.0			QL=4 ST=2 TYP=7
	610	SVTO	49 GB	1416.0E	1421.0	6.0D	760.0			QL=4 ST=2 TYP=7
	1415	SVTO	8 S	1416.0E	1416.0	1.0D	45.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1452.0E	1453.0	2.0D	74.0			QL=4 ST=2 TYP=3
	9400	HUAN	1 S	1454.8	1457.0	4.5	17.1	4.2		
	410	SGMR	8 S	1511.0E	1511.0	1.0D	39.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1511.0E	1511.0	3.0D	790.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1511.0E	1511.0	1.0D	210.0			QL=4 ST=2 TYP=3
	15000	CUBA	23 GRF	1511.0	1513.0	54.0	70.0			16R RAIN
	15400	SGMR	8 S	1512.0E	1512.0	2.0D	44.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1512.0E	1512.0	1.0D	65.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1513.0E	1514.0	1.0D	79.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1513.8	1514.6	1.1	223.0	97.0		
	1415	SGMR	8 S	1514.0E	1514.0	1.0D	42.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1514.0E	1514.0	1.0D	810.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	1514.0E	1514.0	U	800.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	1514.0E	1514.0	U	43.0			QL=4 ST=2 TYP=3
	6700	CUBA	23 GRF	1523.0	1531.0	31.0	14.0	7.0		81R
	9400	HUAN	22 GRF	1524.0	1546.5	42.1	18.8	6.1		
	245	SGMR	8 S	1527.0E	1528.0	2.0D	220.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	1527.0E	1527.0	1.0D	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1527.0E	1528.0	1.0D	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1529.0E	1530.0	2.0D	75.0			QL=4 ST=3 TYP=3
	600	HUMN	2 S/F	1529.5	1531.0	3.3	60.0	11.0		
	610	SVTO	8 S	1531.0E	1531.0	U	51.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1539.0E	1539.0	2.0D	610.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1539.0E	1539.0	2.0D	460.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1539.0E	1539.0	1.0D	1700.0			QL=2 ST=2 TYP=6
	245	SVTO	8 S	1539.0E	1539.0	U	410.0			QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	1543.9	1546.3	5.4	911.0	300.0		
	610	SVTO	49 GB	1544.0E	1546.0	4.0D	12000.0			QL=4 ST=2 TYP=6
	1415	SGMR	8 S	1546.0E	1546.0	1.0D	34.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1546.0E	1546.0	1.0D	34.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1620.7	1622.7	6.6	18.0	5.6		
	245	SVTO	8 S	1625.0E	1626.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1638.0E	1638.0	1.0D	90.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1638.0E	1639.0	2.0D	720.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1638.0E	1638.0	1.0D	68.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1638.0	1640.0	125.0	8.1	3.0		
	600	HUMN	2 S/F	1638.5	1639.5	2.3	68.0	26.0		
	610	PALE	49 GB	1639.0E	1639.0	1.0D	510.0			QL=4 ST=2 TYP=6
	610	SVTO	8 S	1639.0E	1639.0	U	460.0			QL=2 ST=2 TYP=3
	9400	HUAN	23 GRF	1639.0	1716.5	125.7	41.0	18.4		
	4995	PALE	4 S/F	1643.0E	1649.0	8.0D	70.0			QL=4 ST=2 TYP=5
	610	SGMR	49 GB	1644.0E	1650.0	8.0D	13000.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1644.0E	1644.0	U	570.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1644.0E	1652.0	10.0D	1000.0			QL=4 ST=2 TYP=6
	410	SGMR	4 S/F	1644.0E	1652.0	10.0D	320.0			QL=4 ST=2 TYP=3
	15400	SGMR	49 GB	1645.0E	1653.0	9.0D	990.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	1647.0E	1649.0	5.0D	13000.0			QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1647.0E	1653.0	7.0D	810.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	1647.0E	1650.0	5.0D	14000.0			QL=4 ST=2 TYP=6
	2695	PALE	4 S/F	1647.0E	1650.0	14.0D	63.0			QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	1647.0	1649.9	5.9	877.0	348.0		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
10	4995	SGMR	4 S/F	1648.0E	1653.0	6.0D	380.0			QL=4 ST=2 TYP=3	
	1415	SGMR	4 S/F	1648.0E	1650.0	3.0D	63.0			QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	1648.0E	1650.0	3.0D	65.0			QL=4 ST=2 TYP=3	
	9400	HUAN	45 C	1648.8	1657.4U	26.7	172.7	62.4			
	1415	PALE	8 S	1649.0E	1650.0	2.0D	68.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1649.0E	1650.0	1.0D	30.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1650.0E	1654.0	7.0D	290.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	1652.0E	1652.0	1.0D	1300.0				QL=4 ST=2 TYP=6
	410	PALE	49 GB	1652.0E	1652.0	1.0D	750.0				QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	1652.0E	1653.0	8.0D	870.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1652.0E	1652.0	1.0D	520.0				QL=4 ST=2 TYP=6
	410	SVTO	49 GB	1652.0E	1652.0	1.0D	640.0				QL=4 ST=2 TYP=6
	8800	SVTO	49 GB	1653.0E	1653.0	7.0D	630.0				QL=4 ST=2 TYP=6
	15400	PALE	49 GB	1653.0E	1653.0	13.0D	910.0				QL=4 ST=2 TYP=6
	8800	PALE	49 GB	1653.0E	1653.0	18.0D	730.0				QL=4 ST=2 TYP=6
	2800	PENT	3 S	1653.1	1654.3	7.8	27.1	6.0			
	15000	CUBA	45 C	1653.2	1653.6	2.0U	504.0				18R RAIN
	245	SGMR	49 GB	1708.0E	1709.0	1.0D	1300.0				QL=2 ST=2 TYP=6
	410	PALE	4 S/F	1710.0E	1710.0	4.0D	69.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1710.0E	1710.0	1.0D	69.0				QL=4 ST=3 TYP=3
	15400	SVTO	8 S	1711.0E	1711.0	U	66.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1717.0E	1717.0	U	1100.0				QL=2 ST=2 TYP=6
	15400	SGMR	4 S/F	1727.0E	1728.0	3.0D	42.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1727.0E	1728.0	5.0D	53.0				QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	1727.6	1728.7	9.8	65.0	20.8			
	8800	PALE	8 S	1728.0E	1728.0	2.0D	75.0				QL=4 ST=2 TYP=3
	15400	PALE	8 S	1728.0E	1728.0	U	24.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1729.0E	1730.0	1.0D	65.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1732.0E	1732.0	U	91.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1751.0E	1752.0	1.0D	80.0				QL=4 ST=2 TYP=3
	610	PALE	49 GB	1823.0E	1824.0	1.0D	840.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	1823.0E	1824.0	1.0D	1000.0				QL=4 ST=2 TYP=6
	600	HUMN	2 S/F	1823.3	1824.1	1.2	66.0	20.0			
	610	PALE	8 S	1826.0E	1826.0	U	160.0				QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1828.0E	1828.0	1.0D	510.0				QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1828.0E	1828.0	1.0D	980.0				QL=2 ST=2 TYP=6
	610	SGMR	49 GB	1831.0E	1833.0	5.0D	4000.0				QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	1831.0E	1831.0	3.0D	130.0				QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	1831.1	1832.8	4.9	584.0	273.0			
	410	SGMR	49 GB	1832.0E	1832.0	1.0D	1300.0				QL=4 ST=2 TYP=6
	610	PALE	8 S	1900.0E	1900.0	1.0D	470.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1900.0E	1901.0	1.0D	100.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1900.0E	1900.0	1.0D	390.0				QL=2 ST=2 TYP=3
	610	SGMR	49 GB	1900.0E	1900.0	1.0D	660.0				QL=4 ST=2 TYP=6
	410	SGMR	8 S	1900.0E	1900.0	1.0D	62.0				QL=4 ST=2 TYP=3
	9400	HUAN	23 GRF	1906.3	2006.8	132.3	26.5	11.6			
	410	PALE	8 S	1911.0E	1911.0	U	120.0				QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	1917.4	1928.7	17.6	23.9	12.3			
	2800	PENT	22 GRF	1920.0	1955.0	70.0	6.3	3.0			
	15000	CUBA	21 GRF	1926.0	1953.0	64.0D	23.0				00E RAIN, 2030
610	PALE	49 GB	1939.0E	1940.0	3.0D	1600.0				QL=4 ST=2 TYP=6	
610	PALE	49 GB	1940.0E	1940.0	1.0D	1600.0				QL=4 ST=2 TYP=6	
610	SGMR	49 GB	1940.0E	1940.0	1.0D	1400.0				QL=4 ST=2 TYP=6	
410	PALE	8 S	1942.0E	1942.0	1.0D	170.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1942.0E	1942.0	2.0D	180.0				QL=4 ST=2 TYP=3	
610	PALE	8 S	1946.0E	1946.0	U	71.0				QL=4 ST=2 TYP=3	
6700	CUBA	46 C	1949.0	1956.5	17.0	39.0				59R RAIN	
9400	HUAN	45 C	1951.1	1956.3	13.0	100.9	45.6				
15400	PALE	4 S/F	1955.0E	1956.0	3.0D	99.0				QL=4 ST=2 TYP=3	
610	PALE	49 GB	1955.0E	1956.0	3.0D	2300.0				QL=4 ST=2 TYP=6	
610	SGMR	49 GB	1955.0E	1956.0	4.0D	2200.0				QL=4 ST=2 TYP=6	
15000	CUBA	1 S	1955.0	1956.3	3.9	90.0	45.0			52R	
8800	PALE	8 S	1956.0E	1956.0	1.0D	79.0				QL=4 ST=2 TYP=3	
2695	PALE	8 S	1956.0E	1956.0	U	72.0				QL=4 ST=2 TYP=3	
1415	PALE	8 S	1956.0E	1956.0	U	110.0				QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1956.0E	1956.0	U	89.0				QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1956.0E	1956.0	U	68.0				QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1956.0E	1956.0	U	54.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1956.0E	1956.0	U	79.0				QL=4 ST=2 TYP=3	

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks	
10	2800 PENT	3 S	1956.0	1956.2	1.5	71.9	14.0			
	610 PALE	49 GB	2001.0E	2005.0	6.0D	6500.0			QL=4 ST=2 TYP=6	
	1415 PALE	4 S/F	2001.0E	2005.0	4.0D	58.0			QL=4 ST=2 TYP=5	
	610 SGMR	49 GB	2001.0E	2005.0	6.0D	6300.0			QL=4 ST=2 TYP=6	
	2695 PALE	8 S	2002.0E	2003.0	1.0D	42.0			QL=4 ST=2 TYP=3	
	1415 SGMR	4 S/F	2002.0E	2002.0	3.0D	49.0			QL=4 ST=2 TYP=3	
	410 PALE	8 S	2021.0E	2021.0	U	470.0			QL=4 ST=2 TYP=3	
	410 SGMR	8 S	2021.0E	2021.0	U	390.0			QL=4 ST=2 TYP=3	
	245 PALE	8 S	2047.0E	2048.0	1.0D	310.0			QL=4 ST=2 TYP=3	
	245 SGMR	8 S	2047.0E	2048.0	1.0D	320.0			QL=4 ST=2 TYP=3	
	9400 HUAN	4 S/F	2049.4	2055.0	8.8	25.6	10.8		QL=2 ST=2 TYP=3	
	610 PALE	49 GB	2050.0E	2050.0	U	1100.0			QL=4 ST=2 TYP=6	
	9400 HUAN	45 C	2124.8	2127.2	5.5	148.8	56.4			
	610 PALE	8 S	2126.0E	2127.0	1.0D	64.0			QL=4 ST=2 TYP=3	
	4995 SGMR	8 S	2126.0E	2127.0	1.0D	68.0			QL=4 ST=2 TYP=3	
	8800 PALE	8 S	2127.0E	2127.0	U	97.0			QL=4 ST=2 TYP=3	
	15400 PALE	8 S	2127.0E	2127.0	U	130.0			QL=4 ST=2 TYP=3	
	1415 PALE	8 S	2127.0E	2127.0	1.0D	68.0			QL=4 ST=2 TYP=3	
	2695 PALE	8 S	2127.0E	2127.0	U	44.0			QL=4 ST=2 TYP=3	
	8800 SGMR	8 S	2127.0E	2127.0	U	120.0			QL=4 ST=2 TYP=3	
	610 SGMR	8 S	2127.0E	2127.0	U	60.0			QL=4 ST=2 TYP=3	
	2695 SGMR	8 S	2127.0E	2127.0	U	51.0			QL=4 ST=2 TYP=3	
	15400 SGMR	8 S	2127.0E	2127.0	U	140.0			QL=4 ST=2 TYP=3	
	1415 SGMR	8 S	2127.0E	2127.0	1.0D	64.0			QL=4 ST=2 TYP=3	
	610 PALE	8 S	2135.0E	2136.0	1.0D	420.0			QL=4 ST=2 TYP=3	
	610 SGMR	49 GB	2135.0E	2136.0	1.0D	570.0			QL=4 ST=2 TYP=6	
	15400 SGMR	8 S	2143.0E	2145.0	2.0D	48.0			QL=4 ST=2 TYP=3	
	1415 PALE	8 S	2151.0E	2151.0	U	35.0			QL=4 ST=2 TYP=3	
	610 PALE	8 S	2151.0E	2151.0	1.0D	140.0			QL=4 ST=2 TYP=3	
	610 SGMR	8 S	2151.0E	2151.0	1.0D	150.0			QL=4 ST=2 TYP=3	
	1415 SGMR	8 S	2151.0E	2151.0	U	36.0			QL=4 ST=2 TYP=3	
	610 PALE	49 GB	2158.0E	2159.0	3.0D	700.0			QL=4 ST=2 TYP=6	
	610 SGMR	49 GB	2159.0E	2159.0	2.0D	900.0			QL=4 ST=2 TYP=6	
	610 PALE	49 GB	2315.0E	2315.0	1.0D	2000.0			QL=4 ST=2 TYP=6	
	610 PALE	8 S	2335.0E	2335.0	U	65.0			QL=4 ST=2 TYP=3	
	245 PALE	4 S/F	2339.0E	2340.0	4.0D	64.0			QL=4 ST=2 TYP=3	
	2840 PEKG	45 C	2345.0	2350.1	10.0	54.7				
	610 LEAR	49 GB	2349.0E	2351.0	6.0D	20000.0			QL=4 ST=2 TYP=6	
	1415 LEAR	4 S/F	2349.0E	2351.0	3.0D	170.0			QL=4 ST=2 TYP=3	
	1415 PALE	4 S/F	2349.0E	2351.0	5.0D	160.0			QL=4 ST=2 TYP=3	
	610 PALE	49 GB	2349.0E	2351.0	6.0D	16000.0			QL=4 ST=2 TYP=6	
	245 LEAR	8 S	2350.0E	2351.0	1.0D	520.0			QL=4 ST=2 TYP=3	
	2695 LEAR	8 S	2351.0E	2351.0	U	43.0			QL=4 ST=2 TYP=3	
	245 PALE	8 S	2351.0E	2351.0	U	300.0			QL=4 ST=2 TYP=3	
	2695 PALE	8 S	2351.0E	2351.0	U	66.0			QL=4 ST=2 TYP=3	
	17000 NOBE	1 S	2353.0	2358.0	14.0	39.0			L,80.35GHZ:0	
	11	200 GORK	44 NS	0258.0E		590.0D		66.0		
		100 GORK	44 NS	0258.0E		590.0D		39.0		
33 UPIC		44 NS	0400.0E		303.0D					
204 IZMI		43 NS	0600.0		260.0	1500.0				
260 ONDR		44 NS	0600.0E	0732.0U	630.0D					
536 ONDR		44 NS	0600.0E	0732.0U	630.0D					
127 TORN		44 NS	0620.0E		520.0D		760.0			
430 KRAK		44 NS	0651.0E		367.0D	1250.0D	300.0D		V=1	
810 KRAK		44 NS	0651.5E	0719.0	318.5D	70.0	25.0			
610 SVTO		44 NS	0939.0E	0941.0	496.0D	210.0			QL=2 ST=2 TYP=1	
245 SVTO		44 NS	0939.0E	1006.0	496.0D	1300.0			QL=2 ST=2 TYP=1	
410 SVTO		44 NS	0939.0E	1005.0	496.0D	500.0			QL=2 ST=2 TYP=1	
410 SGMR		44 NS	1110.0E	1113.0	660.0D	300.0			QL=2 ST=2 TYP=1	
610 SGMR		44 NS	1110.0E	2048.0	660.0D	150.0			QL=2 ST=2 TYP=1	
245 SGMR		44 NS	1110.0E	1412.0	660.0D	620.0			QL=2 ST=2 TYP=1	
280 CUBA		44 NS	1256.0E		464.0D		171.0			
235 CUBA		44 NS	1256.0E		464.0D		158.0			
245 PALE		44 NS	1628.0E	2000.0	748.0D	290.0			QL=4 ST=2 TYP=1	
200 HIRA		44 NS	2030.0E	0226.0	780.0D	200.0	80.0		SR	
410 LEAR		43 NS	2317.0	0035.0	611.0	420.0			QL=4 ST=2 TYP=1	
245 LEAR		43 NS	2317.0	0035.0	611.0	210.0			QL=4 ST=2 TYP=1	
610 LEAR		43 NS	2317.0	0234.0	611.0	190.0			QL=4 ST=2 TYP=1	

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
11	410 PALE	8 S	0000.0E	0000.0	U	95.0			QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0053.0E	0055.0	3.0D	210.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0053.0E	0054.0	2.0D	200.0			QL=4 ST=2 TYP=3
	2840 PEKG	5 S	0053.0	0053.8	3.0	25.7			
	500 HIRA	45 C	0054.7	0056.8	13.5	650.0	110.0		ML
	410 LEAR	4 S/F	0055.0E	0057.0	3.0D	140.0			QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0058.0E	0059.0	3.0D	520.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0058.0E	0059.0	3.0D	490.0			QL=4 ST=2 TYP=3
	2840 PEKG	5 S	0105.0	0106.5	4.0	24.1			
	2840 PEKG	5 S	0119.0	0120.7	4.0	12.4			
	17000 NOBE	7 C	0119.9	0129.0	33.9	665.0			L
	35000 NOBE	7 C	0122.7	0129.0	10.0	232.0			L, 80GHZ:0
	2840 PEKG	47 GB	0123.0	0154.9	236.0	10828.0			
	8800 PALE	49 GB	0125.0E	0129.0	1355.0D	880.0			QL=4 ST=1 TYP=7
	15400 LEAR	8 S	0128.0E	0129.0	2.0D	790.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0128.0E	0129.0	2.0D	810.0			QL=4 ST=2 TYP=3
	1415 LEAR	4 S/F	0128.0E	0129.0	6.0D	160.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0128.0E	0129.0	2.0D	100.0			QL=4 ST=2 TYP=3
	2695 LEAR	8 S	0128.0E	0129.0	2.0D				QL=4 ST=2 TYP=3
	4995 LEAR	8 S	0128.0E	0129.0	2.0D	690.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0128.0E	0129.0	1.0D	100.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0142.0E	0142.0	U	63.0			QL=4 ST=2 TYP=3
	8800 PALE	49 GB	0153.0E	0207.0	99.0D	17000.0			QL=4 ST=2 TYP=7
	4995 PALE	49 GB	0153.0E	0200.0	129.0D	11000.0			QL=4 ST=2 TYP=7
	2695 PALE	49 GB	0153.0E	0202.0	168.0D	11000.0			QL=4 ST=2 TYP=7
	35000 NOBE	49 GB	0153.8	0204.6	90.0	45600.0			L
	17000 NOBE	49 GB	0153.8	0205.8	140.0	26120.0			L
	15400 PALE	49 GB	0154.0E	0205.0	108.0D	28000.0			QL=4 ST=2 TYP=7
	15400 LEAR	49 GB	0154.0E	0206.0	126.0D	40000.0			QL=4 ST=2 TYP=7
	2695 LEAR	49 GB	0155.0E	0201.0	121.0D	10000.0			QL=4 ST=2 TYP=7
	610 LEAR	49 GB	0155.0E	0206.0	140.0D	5900.0			QL=4 ST=2 TYP=6
	8800 LEAR	49 GB	0155.0E	0204.0	142.0D	17000.0			QL=4 ST=2 TYP=7
	1415 LEAR	49 GB	0155.0E	0205.0	151.0D	6700.0			QL=4 ST=2 TYP=6
	4995 LEAR	49 GB	0155.0E	0204.0	151.0D	12000.0			QL=4 ST=2 TYP=7
	1415 PALE	49 GB	0155.0E	0204.0	166.0D	11000.0			QL=4 ST=2 TYP=7
	610 PALE	49 GB	0155.0E	0206.0	181.0D	5600.0			QL=4 ST=2 TYP=7
	500 HIRA	48 C	0155.5	0207.0	28.5	2500.0	1000.0		WL
	245 LEAR	49 GB	0157.0E	0202.0	451.0D	6200.0			QL=4 ST=3 TYP=6
	410 LEAR	49 GB	0157.0E	0211.0	451.0D	2000.0			QL=4 ST=3 TYP=6
	80000 NOBE	49 GB	0157.8	0204.6	90.0	9810.0			L
	410 PALE	49 GB	0159.0E	0332.0	177.0D	2700.0			QL=4 ST=2 TYP=7
	200 HIRA	48 C	0200.0	0628.0	420.0D	3500.0	1200.0		SR
	245 PALE	49 GB	0202.0E	0202.0	174.0D	7500.0			QL=4 ST=2 TYP=6
	100 HIRA	48 C	0204.6	0207.6	172.0	7400.0	2500.0		SR
	500 HIRA	24 R	0224.0	0430.0	400.0D	1100.0	800.0		SR
	2950 GORK	30 PBI	0245.0	0330.0	560.0	318.0			
	950 GORK	23 GRF	0245.0E	0524.0	606.0D	140.0			
	2950 GORK	47 GB	0245.0	0255.6	36.0	1180.0			
	650 GORK	23 GRF	0300.0E	0430.5	591.0D	450.0			
	9100 GORK	23 GRF	0315.0E	0318.0	545.0D	374.0			
	650 GORK	41 F	0327.3	0335.2		420.0			
	650 GORK	41 F	0327.3	0328.4	13.3	300.0			
	650 GORK	41 F	0327.3	0331.8		340.0			
	410 SVTO	49 GB	0329.0E	0332.0	1231.0D	1800.0			QL=2 ST=1 TYP=6
	1415 SVTO	4 S/F	0330.0E	0338.0	1230.0D	140.0			QL=2 ST=1 TYP=5
	950 GORK	41 F	0331.0	0346.3		365.0			
	950 GORK	41 F	0331.0	0337.5		280.0			
	950 GORK	41 F	0331.0	0331.6	17.2	225.0			
	9100 GORK	1 S	0337.5	0338.1	1.4	62.0			
	15400 SVTO	8 S	0338.0E	0339.0	1.0D	130.0			QL=2 ST=2 TYP=3
	1415 SVTO	8 S	0338.0E	0338.0	1.0D	140.0			QL=2 ST=2 TYP=5
	8800 SVTO	8 S	0338.0E	0338.0	1.0D	140.0			QL=2 ST=2 TYP=3
	4995 SVTO	20 GRF	0338.0E	0339.0	48.0D	260.0			QL=2 ST=2 TYP=2
	2695 SVTO	20 GRF	0338.0E	0338.0	97.0D	300.0			QL=2 ST=2 TYP=2
	245 SVTO	49 GB	0338.0E	0617.0	361.0D	5800.0			QL=2 ST=2 TYP=7
	610 SVTO	49 GB	0338.0E	0412.0	361.0D	2100.0			QL=2 ST=2 TYP=7
	410 SVTO	49 GB	0338.0E	0408.0	1222.0D	1500.0			QL=2 ST=1 TYP=7
	650 GORK	46 C	0346.2	0347.4	7.2	1360.0			
	650 GORK	46 C	0346.2	0347.9		1800.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
11	9300	KISV	4 S/F	0441.2	0444.4	9.0	111.0			
	9100	GORK	4 S/F	0441.5	0444.5	9.5	80.0			
	17000	NOBE	1 S	0441.9	0444.3	20.0	35.0			L,80.35GHZ:0
	9300	KISV	29 PBI	0450.8E	0450.8	1.4D	20.0			
	260	ONDR	29 PBI	0600.0	0732.0U	290.0				
	536	ONDR	29 PBI	0600.0	0732.0U	290.0				
	808	ONDR	29 PBI	0600.0	0619.5	150.0	300.0			
	808	ONDR	40 F	0600.0	0619.5	300.0	103.0			
	2850	CRIM	1 S	0618.0	0618.9	2.0	15.0	5.0		
	9100	GORK	2 S/F	0645.2	0645.7	2.8	18.0			
	9300	KISV	1 S	0802.4	0803.5	2.5	12.0			
	8800	SVTO	4 S/F	0805.0E	0807.0	6.0D	70.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0805.0E	0807.0	6.0D	64.0			QL=4 ST=2 TYP=3
	3013	IZMI	5 S	0805.0	0807.3	6.0	14.0	7.0		
	3000	POTS	29 PBI	0805.0	0807.4	62.5	15.0			
	9500	POTS	23 GRF	0805.2	0807.0	54.8	57.0			
	9300	KISV	4 S/F	0805.2	0807.8	6.5	64.0			
	9100	GORK	4 S/F	0805.4	0807.1	4.2	52.0			
	2950	GORK	2 S/F	0806.0	0807.4	3.8	13.5			
	15000	KISV	46 C	0830.3	0830.5		16.0			
	15000	KISV	46 C	0830.3	0831.6	3.9	23.0			
	15000	KISV	46 C	0830.3	0832.7		15.0			
	9100	GORK	2 S/F	0831.0	0831.8	2.4	28.0			
	9300	KISV	2 S/F	0831.3	0831.8	2.8	21.0			
	3013	IZMI	5 S	0831.5	0833.0	2.0	12.0	6.0		
	2950	GORK	2 S/F	0831.7	0831.9	1.0	10.0			
	9300	KISV	2 S/F	0838.5	0840.2	3.7	4.0			
	15000	KISV	2 S/F	0840.4	0840.9	1.6	31.0			
	9300	KISV	4 S/F	0848.5	0849.0	2.3	42.0			
	9100	GORK	1 S	0848.6	0849.0	1.7	36.0			
	15000	KISV	1 S	0848.6	0849.0	0.9	20.0			
	2850	CRIM	1 S	0851.9	0852.4	0.8	12.0	4.0		
	15000	KISV	4 S/F	0914.7	0915.4	1.8	53.0			
	9300	KISV	4 S/F	0914.7	0915.4	1.3	57.0			
	9500	POTS	4 S/F	0915.0	0915.4	1.5	62.0			
	9100	GORK	4 S/F	0915.0	0915.5	0.9	90.0			
	245	SGMR	49 GB	0923.0E	0956.0	108.0D	1900.0			QL=2 ST=2 TYP=7
	410	SGMR	20 GRF	0924.0E	1006.0	107.0D	450.0			QL=2 ST=2 TYP=2
	610	SGMR	4 S/F	0927.0E	0943.0	104.0D	240.0			QL=2 ST=2 TYP=5
	2850	CRIM	45 C	0930.5	0935.0	53.5	370.0	125.0		
	2850	CRIM	45 C	0930.5	1008.7		85.0			
	9300	KISV	21 GRF	0934.4	0944.5	14.5	18.0			
	15000	KISV	21 GRF	0936.1	0938.3	13.1	25.0			
	9500	POTS	22 GRF	0938.0	1020.8	82.0	21.0			
	15000	KISV	21 GRF	0949.5	0953.0	19.0	35.0			
	3000	POTS	4 S/F	0950.5	0951.5	4.0	21.0			
	1470	POTS	4 S/F	0950.5	0951.6	3.5	7.0			
	2950	GORK	3 S	0950.6	0951.5	3.4	23.0			
	9300	KISV	2 S/F	0950.8	0951.5	8.5	22.0			
	9100	GORK	1 S	0951.0	0951.4	1.9	23.0			
	3013	IZMI	5 S	0951.0	0951.5	9.5	25.0	12.0		
	15000	KISV	21 GRF	1017.2	1020.9	13.6	30.0			
	9300	KISV	42 SER	1021.4	1044.3		6.0			
	9300	KISV	42 SER	1021.4	1049.5		11.0			
9300	KISV	42 SER	1021.4	1028.5	33.5	14.0				
15000	KISV	2 S/F	1050.5	1052.0	3.1	21.0				
2950	GORK	1 S	1112.0	1113.1	3.6	74.0				
9300	KISV	2 S/F	1113.1	1113.6	2.6	4.0				
9300	KISV	22 GRF	1122.5	1139.8		16.0				
9300	KISV	22 GRF	1122.5	1126.8	28.4	16.0				
15000	KISV	2 S/F	1124.4	1127.0	6.4	28.0				
3000	POTS	4 S/F	1155.0	1157.0	4.0	27.0				
2950	GORK	4 S/F	1155.1	1156.1	5.4	30.0				
3013	IZMI	5 S	1155.5	1157.0	5.0	30.0	15.0			
9300	KISV	21 GRF	1156.7	1157.0	11.4	21.0				
9300	KISV	22 GRF	1253.5	1254.2	7.9	14.0				
9400	HUAN	23 GRF	1259.7	1323.2	56.1	18.0	6.1			
15400	SVTO	8 S	1300.0E	1301.0	2.0D	61.0			QL=4 ST=2 TYP=3	
15000	KISV	4 S/F	1300.3	1301.5	2.3	56.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
11	15000	KISV	2 S/F	1314.3	1315.2	6.5	25.0			
	9400	HUAN	3 S	1314.3	1316.3	5.9	30.0	11.4		
	6700	CUBA	23 GRF	1325.0	1334.0	20.0	7.0	3.0		128L
	9300	KISV	2 S/F	1325.8	1327.3	4.2	16.0			
	9400	HUAN	2 S/F	1326.3	1327.4	4.7	14.0	5.2		
	15000	KISV	2 S/F	1326.6	1327.2	4.2	38.0			
	15000	KISV	2 S/F	1350.5	1351.9	5.9	21.0			
	9400	HUAN	1 S	1351.1	1352.5	3.7	8.0	3.2		
	9400	HUAN	1 S	1408.3	1410.3	3.8	6.0	2.9		
	9400	HUAN	22 GRF	1525.1	1621.1	70.7	13.2	4.8		
	9400	HUAN	1 S	1640.8	1641.7	6.4	11.3	3.6		
	9400	HUAN	23 GRF	1705.2	1805.0	106.0	26.5	10.8		
	9400	HUAN	4 S/F	1721.0	1725.6	8.6	41.6	16.7		
	15400	SVTO	4 S/F	1723.0E	1725.0	6.0D	83.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1724.0E	1725.0	7.0D	89.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1724.0E	1726.0	5.0D	44.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1724.0E	1725.0	8.0D	94.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1724.0E	1725.0	3.0D	32.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1724.0E	1728.0	5.0D	45.0			QL=4 ST=2 TYP=5
	245	PALE	8 S	1728.0E	1728.0	1.0D	130.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	1728.0E	1728.0	U	26.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1728.0E	1728.0	U	28.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1730.8	1732.3	8.6	44.8	13.0		
	2695	SGMR	8 S	1731.0E	1732.0	2.0D	43.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1732.0E	1732.0	U	43.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1917.0E	1918.0	2.0D	210.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	1918.0E	1919.0	2.0D	37.0			QL=4 ST=2 TYP=3
	2800	PENT	22 GRF	2003.0	2118.0	350.0D	220.0	88.0		
	245	PALE	49 GB	2008.0E	2228.0	161.0D	1200.0			QL=2 ST=3 TYP=7
	610	PALE	49 GB	2009.0E	2229.0	160.0D	1400.0			QL=4 ST=2 TYP=7
	1415	PALE	4 S/F	2012.0E	2118.0	228.0D	150.0			QL=4 ST=3 TYP=5
	2695	PALE	4 S/F	2013.0E	2041.0	156.0D	260.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	2013.0E	2041.0	156.0D	280.0			QL=4 ST=2 TYP=5
	2695	SGMR	4 S/F	2014.0E	2041.0	134.0D	260.0			QL=4 ST=2 TYP=5
	4995	SGMR	4 S/F	2014.0E	2041.0	134.0D	270.0			QL=4 ST=2 TYP=5
	8800	SGMR	20 GRF	2014.0E	2041.0	134.0D	240.0			QL=4 ST=2 TYP=2
	15400	SGMR	4 S/F	2014.0E	2041.0	134.0D	210.0			QL=4 ST=2 TYP=5
	15400	PALE	4 S/F	2014.0E	2041.0	155.0D	230.0			QL=4 ST=2 TYP=5
	9400	HUAN	45 C	2014.6	2041.3U	77.9	449.2	132.8		
	8800	PALE	20 GRF	2015.0E	2118.0	129.0D	190.0			QL=4 ST=2 TYP=2
	410	PALE	4 S/F	2018.0E	2107.0	135.0D	340.0			QL=4 ST=2 TYP=5
	500	HIRA	24 R	2020.0E	2115.0	580.0D	270.0			SR
	245	SGMR	49 GB	2022.0E	2036.0	70.0D	1200.0			QL=2 ST=2 TYP=7
	1415	SGMR	4 S/F	2024.0E	2036.0	124.0D	190.0			QL=4 ST=2 TYP=5
	410	SGMR	4 S/F	2027.0E	2107.0	96.0D	440.0			QL=2 ST=2 TYP=5
	610	SGMR	20 GRF	2027.0E	2229.0	133.0D	1200.0			QL=2 ST=3 TYP=2
	1415	PALE	20 GRF	2103.0E	2118.0	106.0D	150.0			QL=4 ST=2 TYP=2
	17000	NOBE	1 S	2210.7	2212.3	3.0	21.0			0.80.35GHZ:0
	245	PALE	8 S	2313.0E	2313.0	1.0D	130.0			QL=2 ST=3 TYP=3
	410	PALE	8 S	2313.0E	2314.0	1.0D	61.0			QL=4 ST=3 TYP=3
4995	PALE	8 S	2313.0E	2313.0	U	45.0			QL=4 ST=3 TYP=3	
4995	PALE	8 S	2325.0E	2326.0	1.0D	25.0			QL=4 ST=2 TYP=3	
35000	NOBE	2 S/F	2326.9	2327.5	3.0	98.0			L	
80000	NOBE	2 S/F	2326.9	2327.5	3.0	26.0				
17000	NOBE	4 S/F	2326.9	2327.5	3.0	81.0			L	
8800	PALE	8 S	2327.0E	2327.0	2.0D	50.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	2327.0E	2329.0	3.0D	140.0			QL=2 ST=2 TYP=3	
15400	PALE	8 S	2327.0E	2327.0	2.0D	74.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	2352.0E	2358.0	9.0D	240.0			QL=2 ST=2 TYP=5	
245	LEAR	8 S	2355.0E	2356.0	2.0D	94.0			QL=4 ST=2 TYP=3	
12	410	PALE	44 NS	0111.0E	0321.0	176.0D	200.0			QL=4 ST=2 TYP=1
	100	GORK	44 NS	0300.0E		360.0D		13.0		
	200	GORK	44 NS	0300.0E		390.0D		5.0		
	410	SVTO	44 NS	0340.0E	0350.0	1220.0D	150.0			QL=4 ST=3 TYP=1
	245	SVTO	44 NS	0340.0E	0340.0	1220.0D	130.0			QL=4 ST=3 TYP=1
	610	SVTO	44 NS	0400.0E	0400.0	1200.0D	67.0			QL=4 ST=3 TYP=1
	204	I2MI	43 NS	0600.0		360.0	30.0			
	260	ONDR	44 NS	0600.0E	0647.1	630.0D	51.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
12	127	TORN	44 NS	0620.0E		520.0D		25.0		V=1
	430	KRAK	44 NS	0700.0E	0706.5	360.0D	180.0	12.0		
	245	SVTO	44 NS	1133.0E	1209.0	67.0D	93.0			QL=4 ST=2 TYP=1
	610	SVTO	44 NS	1137.0E	1210.0	57.0D	55.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		460.0D		48.0		
	280	CUBA	44 NS	1300.0E		460.0D		46.0		
	200	HIRA	44 NS	2030.0E	2320.0	780.0D	120.0	46.0		SR
	245	LEAR	8 S	0028.0E	0029.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0029.0E	0029.0	U	74.0			QL=4 ST=2 TYP=3
	17000	NOBE	1 S	0132.8	0133.0	0.5	24.0			L, 80.35GHZ:0
	2840	PEKG	5 S	0220.0	0221.5	3.0	12.2			
	17000	NOBE	1 S	0221.9	0222.4	2.0	19.0			L, 80,35GHZ:0
	650	GORK	23 GRF	0300.0E	0321.0	384.0D	80.0			
	2950	GORK	22 GRF	0304.0E	0345.6	200.0D	18.0			
	950	GORK	22 GRF	0309.0E	0315.0	183.0D	33.0			
	9100	GORK	1 S	0335.0	0335.4	3.4	17.4			
	17000	NOBE	1 S	0335.0	0335.4	1.5	14.0			L, 80,35GHZ:0
	9100	GORK	1 S	0352.1	0353.2	3.0	13.3			
	17000	NOBE	1 S	0352.4	0352.9	2.0	20.0			L, 80,35GHZ:0
	9100	GORK	1 S	0417.8	0418.3	1.8	10.0			
	9300	KISV	2 S/F	0523.5	0525.2	4.5	9.0			
	536	ONDR	41 F	0600.0	0706.5	515.0	148.0			
	9300	KISV	2 S/F	0628.1	0628.7	2.0	9.0			
	950	GORK	8 S	0639.9	0640.2	0.7	18.0			
	1470	POTS	29 PBI	0655.0	0706.4	75.0	160.0			
	9500	POTS	45 C	0657.0	0706.5	28.0	380.0			
	9300	KISV	23 GRF	0658.5	0700.4	29.5	25.0			
	9100	GORK	21 GRF	0658.8	0709.4	62.4	50.0			
	2950	GORK	21 GRF	0659.0	0709.5	50.0	21.0			
	5900	KISV	23 GRF	0659.1	0700.3	35.2	16.0			
	950	GORK	23 GRF	0659.6	0707.7	12.7	5.0			
	3013	IZMI	41 F	0700.0	0707.0	15.0	109.0			
	808	ONDR	7 C	0700.5	0707.5	8.5	66.0			
	5900	KISV	45 C	0700.5	0700.7	2.8				
	5900	KISV	45 C	0700.5	0701.8		16.0			
	15000	KISV	23 GRF	0700.5	0701.8	20.5	26.0			
	9300	KISV	45 C	0700.6	0700.6		19.0			
	17000	NOBE	7 C	0700.6	0706.7	18.0	404.0			L
	9300	KISV	45 C	0700.6	0701.8	2.6	21.0			
	8800	SVTO	4 S/F	0701.0E	0706.0	11.0D	350.0			QL=2 ST=2 TYP=5
	15400	SVTO	49 GB	0703.0E	0706.0	9.0D	510.0			QL=2 ST=2 TYP=6
	15000	KISV	4 S/F	0703.0	0706.6	5.7	314.0			
	5900	KISV	4 S/F	0703.7	0707.0	4.9	117.0			
	610	LEAR	4 S/F	0704.0E	0706.0	5.0D	88.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0704.0E	0705.0	4.0D	50.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0704.0	0706.3	4.0	358.2			
	9100	GORK	4 S/F	0704.8	0706.8	3.5	430.0			
	2695	LEAR	8 S	0705.0E	0706.0	1.0D	66.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0705.0E	0706.0	2.0D	250.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0705.0E	0705.0	2.0D	45.0			QL=4 ST=2 TYP=3
	1415	LEAR	49 GB	0705.0E	0705.0	2.0D	1200.0			QL=4 ST=2 TYP=6
	15400	LEAR	8 S	0705.0E	0706.0	2.0D	350.0			QL=4 ST=2 TYP=3
	3000	POTS	29 PBI	0705.0	0706.8	50.0	165.0			
	9300	KISV	47 GB	0705.8	0706.9	4.5	263.0			
	950	GORK	46 C	0706.0	0707.0		30.0			
	2695	SVTO	8 S	0706.0E	0706.0	1.0D	280.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0706.0E	0706.0	1.0D	190.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0706.0E	0706.0	1.0D	76.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0706.0E	0706.0	2.0D	94.0			QL=2 ST=2 TYP=3
	950	GORK	46 C	0706.0	0706.1	1.7	27.0			
	650	GORK	46 C	0706.0	0707.1		80.0			
	650	GORK	46 C	0706.0	0706.2	1.7	30.0			
	650	GORK	46 C	0706.0	0707.4		115.0			
	950	GORK	46 C	0706.0	0707.4		40.0			
	35000	NOBE	7 C	0706.0	0706.7	3.0	170.0			L, 80GHZ:0
	2950	GORK	4 S/F	0706.0	0706.8	1.7				
	810	KRAK	2 S/F	0706.5	0707.5	1.0	70.0	5.0		
	610	SVTO	8 S	0707.0E	0707.0	1.0D	110.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	0805.2	0805.3	1.0				

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
12	204	IZMI	41 F	0812.0	0813.0	4.0	250.0			
	9500	POTS	4 S/F	0813.8	0815.6	2.8	11.0			
	9100	GORK	2 S/F	0814.3	0815.7	4.1	11.0			
	2850	CRIM	1 S	0816.9	0817.4	1.2	10.0	3.0		
	33	UPIC	45 C	0818.2	0818.8	0.8				
	5900	KISV	46 C	0904.5	0909.0		17.0			
	5900	KISV	46 C	0904.5	0912.1	117.0	22.0			
	5900	KISV	46 C	0904.5	0907.6		11.0			
	15000	KISV	46 C	0907.9	0912.2	9.7	70.0			
	15000	KISV	46 C	0907.9	0909.2		51.0			
	8800	SVTO	8 S	0908.0E	0908.0	1.0D	28.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	0908.0E	0908.0	1.0D	51.0			QL=2 ST=2 TYP=3
	9300	KISV	45 C	0908.0	0912.1	9.2	47.0			
	9300	KISV	45 C	0908.0	0908.9		34.0			
	9100	GORK	46 C	0908.1	0909.0	5.6	34.0			
	9100	GORK	46 C	0908.1	0912.1		50.0			
	9500	POTS	42 SER	0908.2	0912.0	8.2	49.0			
	15400	SVTO	8 S	0911.0E	0912.0	1.0D	70.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	0911.0E	0912.0	1.0D	43.0			QL=2 ST=2 TYP=3
	2850	CRIM	4 S/F	0937.0	0939.0	2.5	26.0	9.0		
	15000	KISV	2 S/F	0939.9	0940.7	3.7	41.0			
	15400	SVTO	8 S	0940.0E	0940.0	1.0D	55.0			QL=2 ST=2 TYP=3
	9500	POTS	4 S/F	0940.0	0940.5	2.6	11.0			
	5900	KISV	2 S/F	0940.0	0940.7	14.0	5.0			
	9300	KISV	2 S/F	0940.2	0940.9	1.9	8.0			
	33	UPIC	2 S/F	0953.9	0954.3	0.6				
	2850	CRIM	24 R	0958.0	1110.0		10.0			
	3000	POTS	4 S/F	1010.5	1011.0U	5.0	73.0			
	9500	POTS	29 PBI	1011.6	1013.0	11.0	300.0			
	9300	KISV	47 GB	1011.7	1013.2	4.6	374.0			
	5900	KISV	47 GB	1011.7	1013.2	6.0	212.0			
	8800	SGMR	4 S/F	1012.0E	1013.0	3.0D	300.0			QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	1012.0E	1013.0	4.0D	270.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1012.0E	1013.0	4.0D	350.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1012.0E	1013.0	2.0D	120.0			QL=4 ST=2 TYP=3
	3013	IZMI	7 C	1012.0	1013.3	10.0	41.0	20.0		
	1470	POTS	4 S/F	1012.7	1013.2	4.8	15.0			
	15000	KISV	4 S/F	1012.9	1013.3	8.3	505.0			
	4995	SGMR	8 S	1013.0E	1013.0	U	85.0			QL=2 ST=3 TYP=3
	15400	SGMR	8 S	1013.0E	1013.0	U	170.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1013.0E	1013.0	U	51.0			QL=4 ST=2 TYP=3
	810	KRAK	1 S	1013.0	1013.3	0.6	14.0	7.0		
	9300	KISV	30 PBI	1016.3E	1016.3	6.4D	25.0			
	9300	KISV	1 S	1018.5	1018.8	0.9	7.0			
	9300	KISV	2 S/F	1023.5	1025.2	2.8	12.0			
	5900	KISV	2 S/F	1051.7	1052.6	2.3	7.0			
	245	SVTO	8 S	1058.0E	1100.0		56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1104.0E	1104.0	1.0D	54.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1106.0E	1110.0	6.0D	82.0			QL=4 ST=2 TYP=5
	245	SVTO	4 S/F	1114.0E	1117.0	7.0D	70.0			QL=4 ST=2 TYP=5
245	SVTO	4 S/F	1124.0E	1128.0	6.0D	64.0			QL=4 ST=2 TYP=5	
9500	POTS	23 GRF	1126.7	1139.0	58.3	25.0				
9300	KISV	2 S/F	1137.9	1138.9	6.6	12.0				
9300	KISV	2 S/F	1154.0	1155.3	3.6	9.0				
9300	KISV	4 S/F	1217.1	1219.7	7.8	32.0				
9400	HUAN	2 S/F	1219.0	1220.1	5.4	15.0	8.1			
5900	KISV	2 S/F	1219.1	1219.8	1.5	12.0				
5900	KISV	2 S/F	1344.7	1345.7	2.9	9.0				
9500	POTS	4 S/F	1354.0	1354.2	1.0	15.0				
6700	CUBA	2 S/F	1354.0	1354.4	2.0	8.0	4.0		65R	
5900	KISV	1 S	1354.1	1354.3	0.9	9.0				
9300	KISV	1 S	1354.1	1354.4	1.0	21.0				
15000	CUBA	1 S	1422.1	1422.3	1.3	8.0	4.0		29R	
33	UPIC	45 C	1424.1	1424.3	1.5					
33	UPIC	8 S	1456.5	1456.6	0.3					
6700	CUBA	20 GRF	1559.0	1606.0	13.0	12.0			68R 1600-1605 D	
9400	HUAN	3 S	1601.8	1603.4U	7.8	43.0	16.8			
8800	SGMR	4 S/F	1602.0E	1603.0	3.0D	61.0			QL=2 ST=2 TYP=3	
15400	SVTO	8 S	1602.0E	1603.0	2.0D	93.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
12	8800	SVTO	8 S	1602.0E	1603.0	2.0D	40.0			QL=4 ST=2 TYP=3	
	15000	CUBA	1 S	1602.0U	1603.0U	5.0U	86.0			38R 1603-1605 0	
	4995	SGMR	8 S	1603.0E	1603.0	1.0D	35.0			QL=2 ST=2 TYP=3	
	4995	SVTO	8 S	1603.0E	1603.0	U	27.0			QL=4 ST=2 TYP=3	
	9400	HUAN	23 GRF	1701.6	1810.6	123.7	26.2	9.8			
	9400	HUAN	4 S/F	1704.9	1706.5	5.9	101.0	42.4			
	8800	PALE	4 S/F	1705.0E	1706.0	3.0D	110.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1705.0E	1706.0	5.0D	210.0				QL=4 ST=2 TYP=3
	6700	CUBA	2 S/F	1705.5	1706.7	4.6	38.0	19.0			74R
	15000	CUBA	1 S	1705.7	1706.7	2.1	155.0	77.0			32R
	4995	PALE	8 S	1706.0E	1706.0	1.0D	42.0				QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1706.0E	1706.0	U	31.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1706.0E	1706.0	1.0D	92.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1706.0E	1706.0	4.0D	180.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1706.0E	1706.0	U	37.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1706.0E	1706.0	1.0D	160.0				QL=4 ST=2 TYP=3
	6700	CUBA	46 C	1743.0	1758.3	20.0	44.0	21.0			69R
	2800	PENT	3 S	1745.0	1758.0	55.0	19.8	6.0			
	9400	HUAN	45 C	1745.6	1758.0	21.1	61.7	31.4			
	15000	CUBA	45 C	1746.2	1758.2	32.8	82.0	28.0			26R
	8800	SGMR	4 S/F	1753.0E	1756.0	7.0D	62.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1753.0E	1758.0	7.0D	70.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1755.0E	1758.0	4.0D	50.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1756.0E	1758.0	3.0D	44.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	1757.0E	1758.0	1.0D	24.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	1757.0E	1800.0		39.0				QL=4 ST=2 TYP=5
	610	PALE	8 S	1757.0E	1757.0	1.0D	120.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1757.0E	1757.0	1.0D	120.0				QL=4 ST=2 TYP=3
	6700	CUBA	29 PBI	1803.0		10.0	16.0	8.0			71R
	15000	CUBA	21 GRF	1825.0	1829.0	13.0	17.0	8.0			10R
	6700	CUBA	20 GRF	1826.0	1827.0	8.0	7.0	3.0			POL OFF
	9400	HUAN	2 S/F	1826.0	1826.7	3.7	15.9	5.4			
	15000	CUBA	1 S	1826.9	1827.3	2.1	18.0	9.0			21R
	9400	HUAN	3 S	1832.3	1834.3	6.8	22.4	9.6			
	15000	CUBA	1 S	1834.0	1834.3	0.8	16.0	8.0			38R
	9400	HUAN	21 GRF	1953.8	2022.5	60.0	23.4	10.4			
	9400	HUAN	2 S/F	2035.6	2036.4	6.9	15.0	7.6			
	9400	HUAN	45 C	2111.7	2117.2	16.5	58.0	29.2			
	4995	PALE	4 S/F	2112.0E	2113.0	8.0D	30.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2112.0E	2117.0	8.0D	120.0				QL=4 ST=2 TYP=3
8800	PALE	4 S/F	2112.0E	2113.0	8.0D	43.0				QL=4 ST=2 TYP=3	
17000	NOBE	1 S	2304.3	2308.3	8.0	24.0				L, 80,35GHZ:0	
8800	PALE	4 S/F	2305.0E	2308.0	17.0D	55.0				QL=4 ST=2 TYP=3	
15400	PALE	8 S	2307.0E	2308.0	2.0D	31.0				QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2307.0E	2308.0	6.0D	36.0				QL=4 ST=2 TYP=3	
17000	NOBE	28 PRE	2338.2	2338.4	7.7	18.0				L, 80,35GHZ:0	
17000	NOBE	7 C	2345.9	2347.7	25.0	190.0				L, 80,35GHZ:0	
15400	PALE	4 S/F	2346.0E	2347.0	21.0D	230.0				QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2347.0E	2348.0	3.0D	88.0				QL=4 ST=2 TYP=3	
8800	PALE	4 S/F	2347.0E	2347.0	27.0D	180.0				QL=4 ST=2 TYP=3	
13	100	GORK	44 NS	0333.0E		567.0D		4.0			
	200	GORK	44 NS	0333.0E		573.0D		5.0			
	204	I2MI	43 NS	0600.0		360.0	25.0				
	260	ONDR	44 NS	0600.0E	1415.0	630.0D	81.0				
	127	TORN	44 NS	0620.0E		520.0D		16.0			V=1, THUNDERSTOR
	245	SVTO	44 NS	0844.0E	1123.0	299.0D	93.0				QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1010.0E	1010.0	830.0D	85.0				QL=2 ST=3 TYP=1
	280	CUBA	44 NS	1300.0E		460.0D		29.0			
	235	CUBA	44 NS	1300.0E		460.0D		19.0			
	17000	NOBE	2 S/F	0034.9	0035.2	2.5	24.0				L, 80,35GHZ:0
	410	LEAR	4 S/F	0040.0E	0041.0	3.0D	56.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0041.0	0041.6	2.0	4.1				
	17000	NOBE	2 S/F	0054.9	0055.2	2.0	29.0				L, 80,35GHZ:0
	8800	PALE	4 S/F	0323.0E	0326.0	4.0D	40.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0323.0E	0325.0	5.0D	210.0				QL=4 ST=2 TYP=3
	17000	NOBE	7 C	0323.3	0324.9	8.0	192.0				L, 80,35GHZ:0
	9300	KISV	1 S	0413.6	0414.1	1.1	10.0				
950	GORK	20 GRF	0427.5	0430.6	8.0	6.0					

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
13	9100	GORK	1 S	0436.8	0436.9	0.7	18.0			
	9100	GORK	23 GRF	0512.2	0938.0	315.6	58.0			
	9100	GORK	2 S/F	0515.6	0516.6	2.9	32.0			
	17000	NOBE	2 S/F	0515.9	0516.1	3.0	52.0			L, 80,35GHZ:0
	15400	LEAR	8 S	0516.0E	0516.0	2.0D	66.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0516.0E	0516.0	1.0D	20.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0516.0E	0516.0	U	52.0			QL=4 ST=2 TYP=3
	9300	KISV	4 S/F	0516.0	0516.3	2.7	28.0			
	5900	KISV	2 S/F	0516.0	0516.6	2.7	8.0			
	15000	KISV	2 S/F	0516.1	0516.3	2.6	45.0			
	9300	KISV	23 GRF	0530.2	0537.3	12.2	21.0			
	5900	KISV	23 GRF	0530.9	0537.4	27.1	16.0			
	9100	GORK	2 S/F	0531.0	0532.3	4.6	28.0			
	15000	KISV	20 GRF	0531.4	0540.2	10.4	41.0			
	9300	KISV	2 S/F	0531.8	0533.1	2.2	12.0			
	5900	KISV	2 S/F	0532.0	0533.7	2.3	8.0			
	9100	GORK	1 S	0538.8	0540.2	4.1	22.0			
	9300	KISV	2 S/F	0539.4	0540.3	2.6	17.0			
	5900	KISV	1 S	0539.7	0540.2	1.3	4.0			
	9300	KISV	2 S/F	0622.9	0623.9	2.0	17.0			
	9100	GORK	1 S	0623.2	0623.7	2.0	16.0			
	9300	KISV	4 S/F	0628.0	0628.9	4.1	29.0			
	5900	KISV	2 S/F	0628.3	0629.0	38.0	10.0			
	9100	GORK	2 S/F	0628.3	0628.9	3.1	28.0			
	2850	CRIM	1 S	0708.1	0709.0	2.0	14.0	5.0		
	9500	POTS	22 GRF	0715.0E	0844.0	108.0D	26.0			
	2950	GORK	22 GRF	0745.9	0754.9	13.7	5.0			
	5900	KISV	23 GRF	0747.5	0756.9	12.5	11.0			
	9300	KISV	22 GRF	0748.3	0750.0	11.7	12.0			
	9300	KISV	22 GRF	0748.3	0755.2		10.0			
	5900	KISV	2 S/F	0749.0E	0749.9	3.5D	12.0			
	950	GORK	20 GRF	0749.7	0850.4	187.3	8.0			
	245	SVTO	8 S	0822.0E	0823.0	2.0D	59.0			QL=4 ST=2 TYP=3
	9300	KISV	23 GRF	0838.5	0850.8	19.0	15.0			
	9300	KISV	2 S/F	0843.5	0843.9	3.0	22.0			
	5900	KISV	30 PBI	0843.6	0844.7	15.3	10.0			
	5900	KISV	4 S/F	0843.6	0843.9	1.1	24.0			
	5900	KISV	2 S/F	0850.2	0858.2	9.8	8.0			
	9300	KISV	21 GRF	0923.4	0937.6	63.2	40.0			
	9500	POTS	23 GRF	0924.0	0925.6	66.0	41.0			
	9300	KISV	2 S/F	0924.7	0925.7	3.0	22.0			
	9100	GORK	2 S/F	0924.8	0925.6	2.1	24.0			
	2850	CRIM	1 S	1001.0	1002.0	1.5	9.0	3.0		
	650	GORK	1 S	1016.2	1016.4	0.4	5.0			
	9500	POTS	21 GRF	1100.0	1129.7	70.0U	25.0			
	9100	GORK	21 GRF	1108.6	1139.9	114.0D	25.0			
	2950	GORK	22 GRF	1109.9	1142.6	110.0D	13.0			
	5900	KISV	22 GRF	1111.0	1135.2	59.3	37.0			
	9300	KISV	22 GRF	1112.1	1135.2	42.0	52.0			
	950	GORK	21 GRF	1112.2	1225.0	110.0D	8.0			
	950	GORK	2 S/F	1130.4	1130.6	0.6	14.0			
	650	GORK	2 S/F	1130.5	1131.0	0.7	11.0			
	9100	GORK	2 S/F	1134.0	1135.1	4.4	34.0			
9500	POTS	4 S/F	1134.4	1135.0	3.6	27.0				
245	SVTO	8 S	1228.0E	1229.0	1.0D	420.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1229.0E	1229.0	U	440.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1300.0E	1301.0	1.0D	73.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1318.0E	1318.0	3.0D	160.0			QL=4 ST=3 TYP=3	
410	SGMR	8 S	1318.0E	1318.0	U	58.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1318.0E	1318.0	U	34.0			QL=4 ST=2 TYP=3	
9500	POTS	4 S/F	1320.0	1321.0	3.0	12.0				
9500	POTS	4 S/F	1331.5	1332.5	3.5	12.0				
6700	CUBA	21 GRF	1351.0	1400.0	17.0	8.0	4.0		35R	
6700	CUBA	2 S/F	1431.5	1432.4	2.6	4.0	2.0		40R	
15000	CUBA	2 S/F	1431.5	1432.5	4.2	15.0	7.0		63R	
536	ONDR	8 S	1500.0	1500.0	0.2	44.0				
15000	CUBA	23 GRF	1507.0	1519.0	18.0	27.0	13.0		68R	
6700	CUBA	21 GRF	1519.0E	1520.0	36.0D	19.0			24R	
6700	CUBA	2 S/F	1521.3	1522.6	2.7	16.0	8.0		53R	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
13	6700	CUBA	1 S	1528.1	1529.0	3.8	7.0	3.0		100R
	6700	CUBA	2 S/F	1613.9	1615.6	4.0	9.0	4.0		36R
	15000	CUBA	2 S/F	1614.1	1614.7	4.5	16.0	8.0		47R
	6700	CUBA	1 S	1635.0	1635.5	1.0	4.0	2.0		36R
	15000	CUBA	21 GRF	1709.0	1749.0	90.0	55.0	27.0		31R
	15400	SVTO	8 S	1717.0E	1718.0	1.0D	54.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	1740.0E	1800.0	29.0D	200.0			QL=4 ST=2 TYP=5
	4995	SGMR	8 S	1741.0E	1742.0	1.0D	30.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1741.0E	1743.0	11.0D	36.0			QL=4 ST=2 TYP=3
	15400	SGMR	49 GB	1741.0E	1800.0	28.0D	580.0			QL=4 ST=2 TYP=7
	15400	PALE	49 GB	1741.0E	1800.0	32.0D	550.0			QL=4 ST=2 TYP=7
	1415	PALE	8 S	1744.0E	1744.0	U	58.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1744.0E	1744.0	U	60.0			QL=4 ST=2 TYP=3
	15000	CUBA	4 S/F	1759.0	1800.2	6.0	483.0	119.0		15R
	8800	SGMR	8 S	1921.0E	1921.0	U	51.0			QL=2 ST=2 TYP=3
	9400	HUAN	23 GRF	1929.9	2016.8	60.9	15.0	6.2		
	9400	HUAN	1 S	1945.6	1948.6	5.8	10.3	3.2		
	15000	CUBA	21 GRF	2006.0	2010.0	14.0	33.0	16.0		33R
	9400	HUAN	4 S/F	2007.1	2008.1	5.5	33.6	12.4		
	15400	SGMR	8 S	2008.0E	2008.0	2.0D	95.0			QL=4 ST=2 TYP=3
	15000	CUBA	1 S	2008.1	2008.5	0.9	67.0	33.0		42R
	9400	HUAN	2 S/F	2035.2	2038.5	5.9	9.3	4.2		
	8800	SGMR	4 S/F	2043.0E	2043.0	3.0D	81.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2043.0E	2043.0	U	52.0			QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	2043.1	2043.7	7.1	78.5	28.6		
	2800	PENT	20 GRF	2102.0	2110.5	27.0	7.5	3.0		
	9400	HUAN	4 S/F	2105.8	2109.1	8.2	28.0	10.4		
	9400	HUAN	2 S/F	2119.4	2120.4	6.9	20.6	7.6		
	9400	HUAN	2 S/F	2133.6	2140.8	11.8	18.7	6.4		
	17000	NOBE	7 C	2159.6	2204.4	9.0	350.0			L
	9400	HUAN	45 C	2159.8	2204.3	8.7	259.8	104.4		
	15400	PALE	4 S/F	2200.0E	2204.0	6.0D	460.0			QL=4 ST=2 TYP=5
	15400	SGMR	4 S/F	2200.0E	2204.0	9.0D	450.0			QL=4 ST=2 TYP=5
	8800	SGMR	4 S/F	2200.0E	2204.0	12.0D	390.0			QL=4 ST=2 TYP=5
	8800	PALE	4 S/F	2202.0E	2204.0U	5.0D	350.0			QL=4 ST=3 TYP=3
	4995	SGMR	4 S/F	2204.0E	2204.0	8.0D	87.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2204.0E	2204.0U	1.0D	72.0			QL=4 ST=3 TYP=3
	35000	NOBE	1 S	2204.2	2204.4	1.0	75.0			L, 80GHZ:0
	15400	SGMR	4 S/F	2320.0E	2320.0	4.0D	200.0			QL=4 ST=3 TYP=3
	8800	PALE	49 GB	2326.0E	2328.0	17.0D	1100.0			QL=4 ST=2 TYP=6
	35000	NOBE	3 S	2326.8	2328.4	5.0	116.0			L, 80GHZ:0
	17000	NOBE	5 S	2326.8	2328.4	10.0	430.0			L
	15400	PALE	49 GB	2327.0E	2328.0	6.0D	660.0			QL=4 ST=2 TYP=6
	4995	PALE	4 S/F	2327.0E	2328.0	16.0D	460.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	2327.1	2328.9	14.2	34.4	7.0		
	2695	PALE	8 S	2328.0E	2328.0	1.0D	38.0			QL=4 ST=2 TYP=3
	14	127	TORN	43 NS	0748.0		432.0		3.0	
235		CUBA	44 NS	1300.0E		460.0D		18.0		
280		CUBA	44 NS	1300.0E		460.0D		26.0		
200		HIRA	44 NS	2030.0E	0125.0	780.0D	40.0	25.0		WR
15400		PALE	8 S	0000.0E	0001.0	2.0D	30.0			QL=4 ST=2 TYP=3
8800		PALE	8 S	0000.0E	0001.0	U	63.0			QL=4 ST=1 TYP=3
17000		NOBE	2 S/F	0011.8	0013.2	20.0	38.0			L, 80,35GHZ:0
15400		LEAR	4 S/F	0013.0E	0019.0	14.0D	75.0			QL=2 ST=2 TYP=5
8800		LEAR	20 GRF	0014.0E	0019.0	15.0D	100.0			QL=4 ST=2 TYP=2
4995		LEAR	4 S/F	0016.0E	0019.0	12.0D	48.0			QL=4 ST=2 TYP=3
17000		NOBE	1 S	0115.6	0116.1	2.0	47.0			L, 80,35GHZ:0
80000		NOBE	2 S/F	0126.8	0127.2	1.5	21.0			
35000		NOBE	4 S/F	0126.8	0127.2	1.5	187.0			L
17000		NOBE	4 S/F	0126.8	0127.5	2.0	118.0			L
15400		LEAR	8 S	0127.0E	0127.0	U	110.0			QL=2 ST=2 TYP=3
8800		LEAR	8 S	0127.0E	0127.0	U	73.0			QL=4 ST=2 TYP=3
8800		PALE	8 S	0127.0E	0127.0	U	71.0			QL=4 ST=2 TYP=3
15400		PALE	8 S	0127.0E	0127.0	U	130.0			QL=4 ST=2 TYP=3
17000		NOBE	20 GRF	0130.7	0137.2	40.0	34.0			L,80,35GHZ:0
2840		PEKG	5 S	0133.0	0136.3	7.0	45.2			
4995		PALE	4 S/F	0135.0E	0136.0	26.0D	110.0			QL=4 ST=2 TYP=3
2800		PENT	3 S	0135.9	0136.9	12.0D	43.5	9.0		

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JUNE 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
						Peak (10 -22 W/m 2 Hz)	Mean			
14	2695 PALE	8 S	0136.0E	0136.0	1.0D	45.0			QL=4 ST=2 TYP=3	
	8800 PALE	4 S/F	0136.0E	0140.0	11.0D	72.0			QL=4 ST=2 TYP=5	
	15400 PALE	4 S/F	0137.0E	0137.0	8.0D	39.0			QL=4 ST=2 TYP=3	
	17000 NOBE	1 S	0219.5	0220.2	4.0	15.0			L,80,35GHZ:0	
	5900 KISV	23 GRF	0359.4	0423.4	62.5	30.0				
	5900 KISV	4 S/F	0401.3	0402.3	7.8	59.0				
	5900 KISV	29 PBI	0413.5	0420.2	20.2	65.0				
	5900 KISV	47 GB	0413.5	0415.7		224.0				
	5900 KISV	47 GB	0413.5	0419.9	6.7	404.0				
	9300 KISV	29 PBI	0414.3	0420.3	17.8	54.0				
	9300 KISV	4 S/F	0414.3	0419.9	6.0	125.0				
	4995 SVTO	4 S/F	0416.0E	0419.0	4.0D	53.0				QL=4 ST=2 TYP=3
	8800 SVTO	4 S/F	0416.0E	0419.0	4.0D	96.0				QL=4 ST=2 TYP=3
	17000 NOBE	1 S	0418.9	0419.8	3.5	70.0				L,80,35GHZ:0
	8800 PALE	8 S	0419.0E	0419.0	1.0D	95.0				QL=4 ST=2 TYP=3
	4995 PALE	8 S	0419.0E	0419.0	1.0D	53.0				QL=4 ST=2 TYP=3
	15400 PALE	8 S	0419.0E	0419.0	1.0D	120.0				QL=4 ST=2 TYP=3
	15400 SVTO	8 S	0419.0E	0419.0	1.0D	89.0				QL=4 ST=2 TYP=3
	17000 NOBE	1 S	0433.3	0433.5	0.8	32.0				0,80,35GHZ:0
	9300 KISV	20 GRF	0454.0	0501.4	13.1	23.0				
	5900 KISV	21 GRF	0456.0	0501.4	17.8	11.0				
	9300 KISV	23 GRF	0522.6	0545.0	45.8	38.0				
	5900 KISV	23 GRF	0527.8	0543.2	41.8	21.0				
	245 LEAR	8 S	0532.0E	0532.0	1.0D	69.0				QL=4 ST=2 TYP=3
	245 LEAR	8 S	0538.0E	0539.0	1.0D	63.0				QL=4 ST=2 TYP=3
	9300 KISV	8 S	0538.9	0539.1	0.3	46.0				
	245 SVTO	8 S	0539.0E	0539.0	1.0D	67.0				QL=4 ST=2 TYP=3
	5900 KISV	23 GRF	0542.7	0556.4	27.7	17.0				
	5900 KISV	45 C	0543.1	0543.3	1.	14.0				
	5900 KISV	45 C	0543.1	0543.8		6.0				
	5900 KISV	4 S/F	0547.3	0549.5	7.3	21.0				
	5900 KISV	2 S/F	0556.1	0557.2	2.2	5.0				
	9300 KISV	1 S	0556.3	0556.8	1.6	14.0				
	260 ONDR	42 SER	0600.0	0654.0	630.0	78.0				
	536 ONDR	42 SER	0600.0	1412.5	500.0	181.0				
	2850 CRIM	3 S	0636.0	0637.5	4.0	29.0		9.0		
	5900 KISV	2 S/F	0649.4	0649.9	2.1	7.0				
	650 GORK	22 GRF	0701.0E	0702.0	359.0D	17.0				
	9100 GORK	20 GRF	0707.0	0746.2	89.0	17.0				
	2950 GORK	20 GRF	0707.0	0711.3	8.6	8.0				
	3013 IZMI	1 S	0709.5	0712.0	5.0	6.0			3.0	
	2850 CRIM	28 PRE	0729.5	0733.4	3.9	55.4			3.0	
	2850 CRIM	3 S	0733.4	0734.0	2.0	196.0			60.0	
	2950 GORK	20 GRF	0733.5	0757.2	115.0	7.5				
	5900 KISV	4 S/F	0738.2	0739.9	6.9	18.0				
	950 GORK	20 GRF	0748.4	0911.0	143.0D	9.0				
	9300 KISV	2 S/F	0752.7	0754.0	3.0	8.0				
	33 UPIC	8 S	0924.4	0924.6	0.8					
	8800 SVTO	8 S	0944.0E	0944.0	1.0D	71.0				QL=4 ST=2 TYP=3
	9300 KISV	4 S/F	0947.1	0948.0	3.6	187.0				
	9300 KISV	29 PBI	0947.1	0950.7	11.2	24.0				
	9100 GORK	21 GRF	0947.3	0952.9	15.8	19.0				
	9500 POTS	29 PBI	0947.8	0948.4	15.8	180.0				
	8800 SGMR	8 S	0948.0E	0948.0	U	120.0				QL=4 ST=2 TYP=3
	15400 SGMR	8 S	0948.0E	0948.0	U	190.0				QL=4 ST=2 TYP=3
15400 SVTO	8 S	0948.0E	0948.0	U	220.0				QL=4 ST=2 TYP=3	
8800 SVTO	8 S	0948.0E	0948.0	2.0D	180.0				QL=4 ST=2 TYP=3	
9100 GORK	3 S	0948.1	0948.6	4.4	226.0					
5900 KISV	4 S/F	0948.2	0948.6	7.4	45.0					
5900 KISV	23 GRF	1017.3	1057.0		30.0					
5900 KISV	23 GRF	1017.3	1042.8	49.8	32.0					
9500 POTS	20 GRF	1021.8	1057.2	117.6	26.0					
9100 GORK	21 GRF	1024.0	1104.3	115.0	24.0					
9100 GORK	4 S/F	1040.6	1042.8	6.6	52.0					
8800 SGMR	8 S	1042.0E	1042.0	1.0D	53.0				QL=4 ST=2 TYP=3	
8800 SVTO	8 S	1042.0E	1042.0	2.0D	66.0				QL=4 ST=2 TYP=3	
9300 KISV	22 GRF	1047.0	1048.0	50.0	75.0					
9100 GORK	1 S	1049.3	1049.9	2.0	11.0					
9100 GORK	1 S	1056.4	1057.1	1.4	8.0					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
14	2950	GORK	20 GRF	1112.0	1125.4	32.0	5.3			
	950	GORK	20 GRF	1143.0E	1225.0	79.0D	11.0			
	245	SGMR	8 S	1208.0E	1208.0	1.0D	160.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1307.4	1309.5	7.9	8.1	3.2		
	15000	CUBA	1 S	1313.0	1313.5	3.9	11.0	5.0		48R
	6700	CUBA	22 GRF	1317.0	1321.0	15.0	5.0	2.0		43R
	1470	POTS	23 GRF	1336.5	1346.0	16.5	6.0			
	9500	POTS	23 GRF	1337.2	1346.0	37.8	33.0			
	3000	POTS	23 GRF	1338.5	1346.0	35.8	17.0			
	6700	CUBA	21 GRF	1339.0	1350.0	69.0	15.0	7.0		29R
	5900	KISV	46 C	1339.1	1346.0		45.0			
	5900	KISV	46 C	1339.1	1343.2	8.7	61.0			
	5900	KISV	46 C	1339.1	1341.8		56.0			
	5900	KISV	29 PBI	1339.1	1347.8	15.5	26.0			
	6700	CUBA	46 C	1339.2	1343.0	39.8	37.0	13.0		38R
	9300	KISV	46 C	1339.2	1346.1	9.3	41.0			
	9300	KISV	29 PBI	1339.2	1348.5	10.6	19.0			
	9300	KISV	46 C	1339.2	1341.8		33.0			
	9300	KISV	46 C	1339.2	1343.9		39.0			
	4995	SGMR	4 S/F	1340.0E	1343.0	7.0D	49.0			QL=4 ST=2 TYP=3
	9400	HUAN	4 S/F	1340.0	1346.2	10.7	24.4	8.4		
	15000	CUBA	1 S	1342.5	1346.1	6.5	33.0	16.0		54R
	15400	SGMR	8 S	1345.0E	1346.0	2.0D	37.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1412.5	1413.3	2.0	6.0	3.0		24R
	15000	CUBA	1 S	1413.0	1413.3	0.7	29.0	14.0		30R
	9400	HUAN	1 S	1438.5	1440.2	3.3	8.1	4.1		
	9400	HUAN	22 GRF	1614.8	1700.2	97.7	18.3	6.2		
	15000	CUBA	21 GRF	1710.0	1712.0	12.0	26.0	13.0		13R
	15000	CUBA	1 S	1713.0	1713.3	0.6	27.0	13.0		90R
	245	SGMR	8 S	1823.0E	1824.0	1.0D	60.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1841.3	1845.2	10.2	16.3	5.8		
	6700	CUBA	21 GRF	1859.0	1906.0	24.0	7.0	3.0		31R 1923 RAIN
	6700	CUBA	1 S	1911.5	1913.2	3.5	126.0	63.0		28R
	1415	PALE	8 S	1912.0E	1913.0	1.0D	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1912.0E	1913.0	1.0D	190.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1912.0E	1913.0	2.0D	350.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1912.0E	1913.0	2.0D	190.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1912.0E	1913.0	1.0D	160.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1912.0E	1913.0	3.0D	380.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1912.0E	1913.0	1.0D	160.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1912.0E	1913.0	3.0D	190.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1912.0E	1913.0	3.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1912.0E	1913.0	3.0D	180.0			QL=4 ST=2 TYP=3
	9400	HUAN	3 S	1912.1	1913.0	3.5	221.6	94.8		
	280	CUBA	6 S	1912.3	1913.0	2.3	79.0			
	235	CUBA	6 S	1912.3	1912.3	2.7	14.0			
	15000	CUBA	3 S	1912.5	1913.1	2.0U	387.0			4R
	2800	PENT	3 S	1912.9	1913.2	6.8	141.1	28.0		
	610	PALE	8 S	1913.0E	1913.0	U	47.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	1913.0E	1913.0	U	1200.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1913.0E	1913.0	287.0D	1000.0			QL=4 ST=1 TYP=6
	9400	HUAN	30 PBI	1915.6	1915.6	48.6	6.1	2.8		
	9400	HUAN	1 S	1930.8	1932.4	3.0	22.4	8.6		
280	CUBA	6 S	1932.0	1932.7	1.6	79.0				
235	CUBA	6 S	1932.0	1932.7	1.6	19.0				
9400	HUAN	1 S	1944.7	1945.8	5.9	10.2	3.6			
9400	HUAN	1 S	2114.9	2118.7	8.7	10.2	4.2			
9400	HUAN	1 S	2134.8	2137.4	5.2	9.1	3.2			
245	SGMR	8 S	2149.0E	2149.0	U	66.0			QL=4 ST=2 TYP=3	
17000	NOBE	1 S	2239.5	2239.7	1.0	12.0			L,80,35GHZ:0	
15	204	IZMI	43 NS	0600.0		360.0	30.0			
	260	ONDR	44 NS	0600.0E	0817.6	630.0D	587.0			
	127	TORN	43 NS	0816.0	1330.7	404.0	360.0	310.0		V=0
	410	SGMR	44 NS	0929.0E	0930.0	61.0D	1000.0			QL=4 ST=2 TYP=1
	610	SGMR	44 NS	0929.0E	0932.0	62.0D	820.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	0929.0E	0932.0	311.0D	590.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1016.0	1032.0	208.0D	290.0			QL=2 ST=2 TYP=1
	245	SGMR	44 NS	1440.0E	1554.0	350.0D	80.0			QL=4 ST=2 TYP=1

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
15	200	HIRA	44 NS	2030.0E		780.0D				
	4995	PALE	4 S/F	0035.0E	0037.0	6.0D	58.0			QL=4 ST=2 TYP=3
	17000	NOBE	2 S/F	0035.4	0037.4	5.0	41.0			L
	8800	LEAR	8 S	0036.0E	0037.0	2.0D	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0036.0E	0037.0	2.0D	34.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0036.0E	0037.0	1.0D	66.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0036.0E	0037.0	2.0D	44.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0036.0E	0037.0	5.0D	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0036.0	0037.4	8.0	12.2			
	35000	NOBE	1 S	0036.7	0037.4	3.0	35.0			0,80GHZ:0
	15400	LEAR	8 S	0037.0E	0037.0	U	34.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0213.0E	0213.0	U	65.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0213.0E	0213.0	U	51.0			QL=4 ST=2 TYP=3
	650	GORK	23 GRF	0240.0E	0308.6	444.0D	20.0			
	950	GORK	23 GRF	0259.3	0303.8	8.3	7.0			
	950	GORK	2 S/F	0300.4	0300.7	0.5	13.0			
	650	GORK	4 S/F	0308.6	0314.7	8.0	78.0			
	610	PALE	8 S	0313.0E	0314.0	2.0D	58.0			QL=4 ST=2 TYP=3
	9100	GORK	21 GRF	0330.0	0432.6	390.0D	40.0			
	2950	GORK	23 GRF	0337.8	0549.5	145.0	14.6			
	2840	PEKG	5 S	0343.0	0345.7	7.0	12.7			
	2950	GORK	1 S	0345.5	0346.0	1.4	7.6			
	950	GORK	20 GRF	0345.6	0346.0	9.0	7.0			
	650	GORK	4 S/F	0345.6	0346.5	2.1	10.0			
	9100	GORK	1 S	0350.0	0351.0	3.2	13.0			
	245	PALE	8 S	0355.0E	0355.0	U	71.0			QL=4 ST=2 TYP=3
	5900	KISV	23 GRF	0359.4	0423.4	62.5	30.0			
	8800	LEAR	4 S/F	0400.0E	0402.0	5.0D	100.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0400.0E	0402.0	5.0D	48.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0400.0	0401.7	8.0	11.0			
	9100	GORK	4 S/F	0400.5	0402.1	7.4	104.0			
	9300	KISV	23 GRF	0400.5	0430.5	49.3	34.0			
	15400	LEAR	4 S/F	0401.0E	0403.0	4.0D	110.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0401.0E	0402.0	1.0D	33.0			QL=2 ST=2 TYP=3
	4995	PALE	4 S/F	0401.0E	0402.0	3.0D	73.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0401.0E	0401.0	2.0D	78.0			QL=2 ST=2 TYP=3
	17000	NOBE	1 S	0401.0	0402.2	6.0	44.0			L,80,35GHZ:0
	9300	KISV	4 S/F	0401.2	0402.1	6.5	88.0			
	5900	KISV	4 S/F	0401.3	0402.3	7.8	59.0			
	2950	GORK	1 S	0401.4	0402.2	2.0	7.0			
	15400	PALE	8 S	0402.0E	0402.0	U	36.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0403.0E	0405.0	2.0D	84.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0405.0E	0405.0	U	92.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	0421.9	0423.0	4.5	26.0			
	9300	KISV	4 S/F	0421.9	0424.1	4.9	25.0			
	245	LEAR	8 S	0538.0E	0539.0	2.0D	180.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0538.0E	0539.0	2.0D	230.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0539.0	0539.0	4.0	850.0			WL
	950	GORK	2 S/F	0539.0	0543.2	6.3	16.0			
	410	LEAR	49 GB	0542.0E	0542.0	U	600.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0542.0E	0542.0	U	180.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0542.0	0543.2	38.0	19.4			
	9300	KISV	46 C	0542.7	0543.3		36.0			
	5900	KISV	23 GRF	0542.7	0556.4	27.7	17.0			
	9300	KISV	46 C	0542.7	0545.7	8.0	48.0			
	9300	KISV	29 PBI	0542.7	0550.7	18.5	23.0			
	9300	KISV	46 C	0542.7	0543.8		19.0			
	9100	GORK	4 S/F	0542.8	0543.3	1.0	42.0			
	5900	KISV	45 C	0543.1	0543.3	1.1	14.0			
	5900	KISV	45 C	0543.1	0543.8		6.0			
	9100	GORK	2 S/F	0544.7E	0548.7		36.0			
	17000	NOBE	1 S	0545.5	0545.7	1.0	24.0			0,80,35GHZ:0
	5900	KISV	4 S/F	0547.3	0549.5	7.3	21.0			
	245	LEAR	8 S	0637.0E	0637.0	U	130.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0649.4	0649.9	2.1	7.0			
	2950	GORK	1 S	0649.5	0649.9	1.5	5.7			
	1470	POTS	46 C	0656.0U	0820.0U	439.0U	5700.0D			
	9500	POTS	46 C	0705.0	0816.0U	430.0U	5000.0			
	3000	POTS	46 C	0705.0	0816.0U	430.0U	3700.0D			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
15	810	KRAK	8 S	0705.8	0706.0	0.5	28.0			
	950	GORK	46 C	0706.0	0709.1		25.0			
	950	GORK	46 C	0706.0	0706.4	5.2	52.0			
	810	KRAK	8 S	0708.2	0708.5	0.4	16.0			
	950	GORK	21 GRF	0711.6	0813.5	172.0D	7.0			
	5900	KISV	4 S/F	0738.2	0739.9	6.9	18.0			
	9300	KISV	4 S/F	0738.7	0739.9	6.6	48.0			
	9100	GORK	4 S/F	0739.0	0739.8	2.5	43.0			
	17000	NOBE	2 S/F	0739.2	0739.9	1.0	34.0			L,80,35GHZ:0
	950	GORK	2 S/F	0757.8	0758.5	0.9	8.0			
	15400	LEAR	49 GB	0809.0E	0814.0	79.0D	25000.0			QL=4 ST=2 TYP=7
	15400	SVTO	49 GB	0809.0E	0814.0	127.0D	18000.0			QL=4 ST=2 TYP=6
	9100	GORK	49 GB	0809.1	0816.1	54.0	15650.0			
	9300	KISV	29 PBI	0809.7	0932.0	167.2	629.0			
	9300	KISV	47 GB	0809.7	0816.9U	89.7	1000.0D			
	2950	GORK	47 GB	0811.0	0817.1	109.0D	15640.0			
	5900	KISV	29 PBI	0811.3	0822.5	176.6	240.0			
	5900	KISV	47 GB	0811.3	0816.9U	71.2	18000.0D			
	8800	SVTO	49 GB	0812.0E	0816.0	124.0D	15000.0			QL=4 ST=2 TYP=6
	100	HIRA	48 C	0812.8	0820.4	67.0D	16000.0D	9000.0D		MR,SUNSET
	33	UPIC	32 ABS	0813.0	0818.0	9.0D				
	2695	LEAR	49 GB	0813.0E	0817.0	75.0D	17000.0			QL=4 ST=2 TYP=6
	610	LEAR	49 GB	0813.0E	0819.0	75.0D	2000.0			QL=4 ST=2 TYP=7
	1415	LEAR	49 GB	0813.0E	0817.0	75.0D	39000.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0813.0E	0817.0	75.0D	19000.0			QL=4 ST=2 TYP=7
	8800	LEAR	49 GB	0813.0E	0816.0	75.0D	17000.0			QL=4 ST=2 TYP=7
	1415	SVTO	49 GB	0813.0E	0817.0	100.0D	46000.0			QL=4 ST=2 TYP=6
	2695	SVTO	49 GB	0813.0E	0817.0	123.0D	14000.0			QL=4 ST=2 TYP=6
	4995	SVTO	49 GB	0813.0E	0816.0	947.0D	21000.0			QL=4 ST=1 TYP=6
	536	ONDR	29 PBI	0813.0	0913.5U	167.0				
	3013	IZMI	46 C	0813.5	0817.0	9.0	14100.0			
	808	ONDR	29 PBI	0813.5	0816.0U	106.5				
	650	GORK	47 GB	0813.5	0814.4	110.0D	4350.0			
	650	GORK	47 GB	0813.5	0946.5		530.0			
	650	GORK	47 GB	0813.5	0914.5		6100.0			
	950	GORK	47 GB	0813.5	0818.5	68.3	5470.0			
	950	GORK	47 GB	0813.5	0828.8		1560.0			
	650	GORK	47 GB	0813.5	0819.8		1840.0			
	950	GORK	47 GB	0813.5	0856.8		910.0			
	650	GORK	47 GB	0813.5	0830.9		2020.0			
	950	GORK	47 GB	0813.5	0913.9		1620.0			
	600	HUMN	49 GB	0813.9	0914.1	121.0	833.0	134.0		
	410	LEAR	49 GB	0814.0E	0912.0	74.0D	14000.0			QL=4 ST=3 TYP=7
	610	SVTO	49 GB	0814.0E	0914.0	112.0D	5000.0			QL=4 ST=2 TYP=7
	500	HIRA	48 C	0814.5	0820.0	65.0D	1200.0	300.0		MR,SUNSET
	810	KRAK	49 GB	0814.5	0818.8	121.0	3000.0	180.0		
	245	LEAR	49 GB	0815.0E	0817.0	73.0D	6400.0			QL=4 ST=2 TYP=7
	410	SVTO	49 GB	0815.0E	0912.0	114.0D	17000.0			QL=4 ST=2 TYP=7
	245	SVTO	49 GB	0815.0E	0817.0	121.0D	5900.0			QL=4 ST=2 TYP=6
	430	KRAK	49 GB	0815.0	0820.0U	245.5D	1300.0D	160.0D		
	260	ONDR	29 PBI	0815.0	0817.6	225.0	587.0			
	200	HIRA	48 C	0816.0	0816.6	70.0D	60000.0	600.0		-,SUNSET
	204	IZMI	46 C	0816.3	0817.8	12.0	100000.0			
	127	TORN	47 GB	0816.6	0818.0U	8.0	9000.0D	3100.0		
	33	UPIC	49 GB	0822.0	1125.0U					
	204	IZMI	30 PBI	0828.0		215.0	500.0			
	1415	SGMR	4 S/F	1036.0E	1038.0	3.0D	64.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1146.0	1146.2	0.4				
	536	ONDR	42 SER	1230.0	1325.7	230.0	127.0			
	410	SVTO	8 S	1241.0E	1241.0	1.0D	58.0			QL=2 ST=2 TYP=3
	810	KRAK	8 S	1241.5	1242.1	0.7	30.0			
	430	KRAK	8 S	1241.5	1241.5	0.2	59.0			
	9300	KISV	2 S/F	1241.5	1241.8	1.7	31.0			
	9400	HUAN	2 S/F	1255.8	1300.8	9.3	18.4	8.2		
	9400	HUAN	2 S/F	1314.5	1316.4	4.9	10.0	4.6		
	9400	HUAN	2 S/F	1329.0	1330.4	5.2	11.7	5.1		
	280	CUBA	6 S	1330.0	1331.0	2.0	82.0			
	235	CUBA	6 S	1330.0	1333.0		245.0			
	245	SGMR	49 GB	1330.0E	1331.0	1.0D	760.0			QL=2 ST=2 TYP=6

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
15	410	SVTO	8 S	1330.0E	1331.0	1.0D	65.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1330.0E	1330.0	3.0D	740.0			QL=2 ST=2 TYP=6
	15000	CUBA	1 S	1330.0	1334.5		39.0	19.0		43R
	9400	HUAN	1 S	1427.4	1428.9	4.2	12.6	5.8		
	245	SVTO	8 S	1428.0E	1428.0	1.0D	100.0			QL=2 ST=2 TYP=3
	6700	CUBA	2 S/F	1428.3	1429.0	4.2	5.0	2.0		27R
	15000	CUBA	3 S	1428.3	1429.0	2.5	32.0	16.0		154R
	15000	CUBA	1 S	1523.2	1523.5	2.1	119.0	59.0		5R
	9400	HUAN	3 S	1523.4	1524.5	5.9	46.9	16.4		
	8800	SGMR	8 S	1524.0E	1524.0	U	32.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1524.0E	1524.0	1.0D	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1524.0E	1524.0	U	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	2 S/F	1524.0	1524.4	2.9	14.0	7.0		23R
	15000	CUBA	2 S/F	1552.1	1555.0	7.3	29.0	14.0		49R
	410	SGMR	8 S	1818.0E	1818.0	U	90.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1845.0E	1845.0	1.0D	69.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	2051.1	2053.3	14.6	157.1	47.0		
	9400	HUAN	45 C	2052.0	2056.0	17.3	239.4	99.6		
	2695	PALE	20 GRF	2052.0E	2053.0	10.0D	220.0			QL=4 ST=2 TYP=2
	1415	PALE	20 GRF	2053.0E	2053.0	7.0D	100.0			QL=4 ST=2 TYP=2
	4995	PALE	4 S/F	2053.0E	2056.0	9.0D	330.0			QL=4 ST=2 TYP=5
	4995	SGMR	4 S/F	2053.0E	2056.0	9.0D	300.0			QL=4 ST=2 TYP=5
	8800	SGMR	4 S/F	2053.0E	2056.0	9.0D	210.0			QL=4 ST=2 TYP=5
	15400	SGMR	4 S/F	2053.0E	2053.0	4.0D	92.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2053.0E	2053.0	9.0D	200.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2053.0E	2056.0	15.0D	220.0			QL=4 ST=2 TYP=5
	15400	PALE	4 S/F	2053.0E	2056.0	15.0D	120.0			QL=4 ST=2 TYP=5
	2800	PENT	29 PBI	2104.7	2140.2	158.0	13.2	5.0		
	245	LEAR	8 S	2335.0E	2335.0	U	170.0			QL=4 ST=2 TYP=3
16	204	IZMI	43 NS	0600.0		360.0	20.0			
	127	TORN	44 NS	0620.0E	1242.2	520.0D	60.0	5.0		V=1
	17000	NOBE	1 S	0153.7	0154.3	2.0	15.0			L,80,35GHZ:0
	9100	GORK	1 S	0435.1	0435.3	0.5	8.0			
	9100	GORK	1 S	0507.1	0508.6	2.2	10.3			
	650	GORK	4 S/F	0507.9	0508.3	1.0	19.0			
	950	GORK	4 S/F	0508.1	0508.3	0.8	107.0			
	2950	GORK	1 S	0508.1	0508.4	0.9	2.5			
	950	GORK	1 S	0532.1	0532.5	1.2	3.0			
	650	GORK	45 C	0532.2	0533.1		3.0			
	650	GORK	45 C	0532.2	0532.4	1.1	5.0			
	2950	GORK	1 S	0532.2	0532.5	1.3	2.5			
	9100	GORK	1 S	0532.3	0532.5	0.5	11.0			
	260	ONDR	42 SER	0600.0	1228.0	630.0	653.0			
	9100	GORK	1 S	0606.7	0607.0	2.3	16.5			
	204	IZMI	41 F	0624.0	0628.4	5.5	900.0			
	536	ONDR	42 SER	0625.0	0805.1	360.0	191.0			
	610	LEAR	8 S	0626.0E	0628.0	2.0D	77.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0626.0E	0628.0	2.0D	28.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0626.0E	0628.0	3.0D	870.0			QL=2 ST=2 TYP=6
	9100	GORK	1 S	0628.0	0628.2	0.5	10.0			
	2950	GORK	1 S	0628.1	0628.2	0.5	5.0			
	9100	GORK	1 S	0705.0	0705.5	5.2	7.0			
	9100	GORK	2 S/F	0741.0	0741.8	3.1	16.0			
	9500	POTS	4 S/F	0741.0	0741.8	3.0	16.0			
	2695	LEAR	8 S	0757.0E	0757.0	U	67.0			QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0805.0E	0805.0	1.0D	1300.0			QL=2 ST=2 TYP=6
	610	LEAR	8 S	0805.0E	0805.0	U	140.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0805.0E	0805.0	U	120.0			QL=4 ST=2 TYP=3
	808	ONDR	4 S/F	0805.1	0805.6	3.0	177.0			
	245	LEAR	49 GB	0811.0E	0811.0	1.0D	810.0			QL=2 ST=2 TYP=6
	204	IZMI	5 S	0811.8	0811.9	0.5	9000.0	8000.0		
	245	LEAR	8 S	0814.0E	0815.0	1.0D	97.0			QL=2 ST=2 TYP=3
15400	LEAR	8 S	0835.0E	0835.0	U	140.0			QL=2 ST=2 TYP=3	
9500	POTS	4 S/F	0947.0	0947.5	1.6	11.0				
9300	KISV	2 S/F	0947.1	0947.4	1.0	10.0				
245	SGMR	8 S	0959.0E	0959.0	U	180.0			QL=2 ST=2 TYP=3	
9500	POTS	4 S/F	1002.5	1003.2	1.9	17.0				
9300	KISV	2 S/F	1002.6	1003.1	1.5	12.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
16	9500	POTS	4 S/F	1125.0	1128.8	6.3	113.0			
	15400	SVTO	8 S	1127.0E	1128.0	2.0D	180.0			QL=4 ST=2 TYP=3
	9300	KISV	4 S/F	1127.5	1128.8	4.2	107.0			
	430	KRAK	42 SER	1127.5	1128.9	1.4	42.0			
	5900	KISV	4 S/F	1127.6	1128.8	4.6	32.0			
	1470	POTS	4 S/F	1127.8	1128.8	3.8	10.0			
	15400	SGMR	8 S	1128.0E	1128.0	1.0D	110.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	1128.0E	1128.0	2.0D	67.0			QL=2 ST=3 TYP=3
	8800	SVTO	8 S	1128.0E	1128.0	1.0D	100.0			QL=4 ST=2 TYP=3
	3013	IZMI	1 S	1128.0	1128.8	5.0	6.0	3.0		
	810	KRAK	8 S	1128.5	1128.7	0.4	14.0			
	127	TORN	7 C	1227.8	1228.0	2.0	900.0	150.0		
	245	SGMR	8 S	1228.0E	1228.0	1.0D	250.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1228.0E	1228.0	1.0D	120.0			QL=4 ST=2 TYP=3
	810	KRAK	8 S	1248.0	1248.4	0.5	8.0			
	9400	HUAN	3 S	1348.9	1350.6	4.3	29.8	8.8		
	15000	CUBA	2 S/F	1349.2	1350.8	2.7	35.0	17.0		13R
	9500	POTS	4 S/F	1349.8	1350.6	3.2	30.0			
	6700	CUBA	1 S	1350.3	1350.9	2.2	9.0	4.0		31R
	245	SGMR	8 S	1625.0E	1625.0	U	170.0			QL=2 ST=2 TYP=3
	9400	HUAN	23 GRF	1637.2	1706.3	72.2	17.9	6.4		
	245	SVTO	8 S	1703.0E	1703.0	1.0D	240.0			QL=4 ST=2 TYP=3
	9400	HUAN	1 S	1741.8	1744.0	4.3	10.0	3.2		
	6700	CUBA	1 S	1743.5	1744.0	2.0	13.0	6.0		POL OFF
	9400	HUAN	2 S/F	1816.0	1819.0	6.4	19.9	6.4		
	15000	CUBA	3 S	1817.0	1819.0	7.0	15.0	7.0		26R
	9400	HUAN	2 S/F	1824.8	1828.0	9.5	8.0	2.8		
	410	PALE	49 GB	1908.0E	1910.0	3.0D	2900.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	2000.0E	2001.0	1.0D	99.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2000.0E	2001.0	1.0D	43.0			QL=2 ST=2 TYP=3
	9400	HUAN	2 S/F	2000.1	2001.0	3.8	21.9	7.0		
	9400	HUAN	3 S	2110.2	2111.6	4.0	22.9	7.6		
	245	PALE	49 GB	2207.0E	2207.0	1.0D	510.0			QL=4 ST=2 TYP=6
	245	SGMR	4 S/F	2207.0E	2212.0	5.0D	420.0			QL=2 ST=3 TYP=3
	500	HIRA	46 C	2207.5	2212.0	6.0	700.0	50.0		0
	17000	NOBE	4 S/F	2207.8	2212.3	8.0	228.0			L, 80, 35GHZ: BAD
	15400	PALE	4 S/F	2208.0E	2212.0	5.0D	270.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	2208.0E	2212.0	5.0D	250.0			QL=2 ST=2 TYP=3
	245	SGMR	4 S/F	2209.0E	2212.0	3.0D	120.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	2210.0E	2212.0	2.0D	390.0			QL=4 ST=2 TYP=3
410	SGMR	8 S	2210.0E	2212.0	2.0D	390.0			QL=2 ST=2 TYP=3	
8800	PALE	8 S	2211.0E	2212.0	2.0D	53.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	2211.0E	2212.0	2.0D	61.0			QL=2 ST=2 TYP=3	
610	SGMR	8 S	2212.0E	2212.0	U	46.0			QL=2 ST=2 TYP=3	
17	235	CUBA	44 NS	1315.0E		390.0D		13.0		
	280	CUBA	44 NS	1315.0E		430.0D		21.0		
	245	LEAR	8 S	0016.0E	0017.0	1.0D	210.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0016.0E	0017.0	1.0D	49.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0016.0E	0017.0	1.0D	210.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0016.0E	0017.0	1.0D	50.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0111.0E	0111.0	1.0D	3800.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0111.0E	0111.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0111.0E	0111.0	1.0D	2700.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	0111.0E	0111.0	1.0D	150.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0130.0	0135.8	20.0	92.7			
	500	HIRA	42 SER	0130.5	0135.6	7.5	2900.0			0
	245	LEAR	8 S	0132.0E	0132.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0132.0E	0132.0	1.0D	690.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	0132.0E	0132.0	1.0D	120.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0135.0E	0135.0	1.0D	170.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0135.0E	0135.0	2.0D	81.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0135.0E	0135.0	1.0D	94.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0135.0E	0135.0	1.0D	70.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0135.0E	0135.0	1.0D	35.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0135.0E	0135.0	1.0D	2500.0			QL=4 ST=2 TYP=6
	8800	LEAR	8 S	0135.0E	0135.0	1.0D	40.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0135.0E	0135.0	1.0D	72.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	0135.0E	0135.0	1.0D	83.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
17	15400	PALE	8 S	0135.0E	0135.0	1.0D	57.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0135.0E	0135.0	1.0D	3500.0			QL=4 ST=2 TYP=6
	610	PALE	8 S	0135.0E	0135.0	1.0D	140.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0135.0E	0135.0	1.0D	74.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0135.0E	0135.0	1345.0D	32.0			QL=4 ST=1 TYP=3
	17000	NOBE	1 S	0135.3	0135.7	1.5	58.0			L,80,35GHZ:BAD
	410	LEAR	8 S	0250.0E	0251.0	2.0D	59.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0251.0E	0251.0	U	170.0			QL=4 ST=2 TYP=3
	950	GORK	46 C	0303.7	0312.0		15.0			
	950	GORK	46 C	0303.7	0304.3	9.1	17.0			
	650	GORK	46 C	0303.7	0309.5		59.0			
	650	GORK	46 C	0303.7	0311.7		24.0			
	650	GORK	46 C	0303.7	0303.7	9.1	40.0			
	950	GORK	46 C	0303.7	0308.9		110.0			
	245	LEAR	8 S	0304.0E	0304.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0304.0E	0306.0	2.0D	55.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0304.0E	0304.0	U	96.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0304.0	0309.3	6.0	160.0			WL
	8800	PALE	4 S/F	0307.0E	0309.0	5.0D	28.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	0307.9	0309.3	4.6	49.0			
	17000	NOBE	2 S/F	0307.9	0309.3	5.0	67.0			L,80,35GHZ:BAD
	4995	LEAR	8 S	0308.0E	0309.0	2.0D	27.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0308.0E	0311.0	3.0D	540.0			QL=4 ST=2 TYP=6
	8800	LEAR	8 S	0308.0E	0309.0	1.0D	36.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0308.0E	0309.0	2.0D	39.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0308.0E	0311.0	3.0D	750.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0308.0E	0309.0	1.0D	40.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0308.0E	0309.0	2.0D	37.0			QL=2 ST=2 TYP=3
	410	PALE	49 GB	0308.0E	0311.0	4.0D	890.0			QL=4 ST=2 TYP=7
	2695	PALE	4 S/F	0308.0E	0309.0	5.0D	37.0			QL=4 ST=2 TYP=5
	245	PALE	4 S/F	0308.0E	0308.0	5.0D	35.0			QL=4 ST=2 TYP=5
	500	HIRA	46 C	0308.0	0309.5	4.5	160.0	35.0		0
	2950	GORK	4 S/F	0308.2	0309.5	2.8	29.0			
	4995	PALE	4 S/F	0309.0E	0309.0	4.0D	23.0			QL=4 ST=2 TYP=5
	15400	PALE	4 S/F	0309.0E	0309.0	4.0D	48.0			QL=4 ST=2 TYP=5
	9100	GORK	4 S/F	0347.0	0349.3	4.0	750.0			
	950	GORK	21 GRF	0347.6	0354.0	59.1	50.0			
	650	GORK	21 GRF	0347.6	0354.0	74.8	30.0			
	610	LEAR	49 GB	0348.0E	0349.0	6.0D	740.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0348.0E	0349.0	2.0D	590.0			QL=2 ST=2 TYP=6
	4995	LEAR	49 GB	0348.0E	0349.0	5.0D	1000.0			QL=4 ST=2 TYP=6
	15400	PALE	49 GB	0348.0E	0349.0	2.0D	580.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0348.0E	0349.0	5.0D	1700.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	0348.0E	0349.0	7.0D	1100.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0348.0E	0349.0	8.0D	1200.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	0348.0E	0349.0	6.0D	670.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0348.0E	0349.0	5.0D	1500.0			QL=4 ST=2 TYP=6
	2695	SVTO	49 GB	0348.0E	0349.0	5.0D	1300.0			QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	0348.0E	0349.0	3.0D	330.0			QL=2 ST=3 TYP=3
	2695	LEAR	49 GB	0348.0E	0349.0	10.0D	1300.0			QL=2 ST=2 TYP=6
	1415	LEAR	49 GB	0348.0E	0349.0	12.0D	680.0			QL=4 ST=2 TYP=6
	1415	PALE	49 GB	0348.0E	0349.0	14.0D	630.0			QL=4 ST=2 TYP=6
	950	GORK	4 S/F	0348.4	0349.4	5.6	420.0			
	650	GORK	4 S/F	0348.4	0349.7	5.6	320.0			
	500	HIRA	46 C	0348.5	0349.0	10.0	700.0	80.0		0
	2950	GORK	29 PBI	0348.6	0352.0	102.0	29.0			
	2950	GORK	47 GB	0348.6	0349.4	3.5	1030.0			
	200	HIRA	6 S	0348.6	0348.6	2.6	900.0	100.0		WL
	35000	NOBE	5 S	0348.7	0349.1	2.0	405.0			L,80GHZ:BAD WEA
	17000	NOBE	7 C	0348.7	0349.2	3.0	428.0			L
	8800	LEAR	49 GB	0349.0E	0349.0	2.0D	560.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	0349.0E	0351.0	2.0D	390.0			QL=4 ST=2 TYP=5
	1415	SVTO	49 GB	0349.0E	0349.0	3.0D	670.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	0349.0E	0351.0	2.0D	330.0			QL=4 ST=2 TYP=5
	8800	SVTO	49 GB	0349.0E	0349.0	1.0D	590.0			QL=2 ST=2 TYP=6
	15400	SVTO	8 S	0349.0E	0349.0	U	310.0			QL=2 ST=2 TYP=3
	4995	SVTO	49 GB	0349.0E	0349.0	3.0D	1000.0			QL=2 ST=2 TYP=6
	9100	GORK	29 PBI	0351.0E	0351.0	37.5D	28.0			
	950	GORK	4 S/F	0411.5	0412.0	1.1	20.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
17	2950	GORK	20 GRF	0556.4	0557.7	7.3	3.7			
	950	GORK	4 S/F	0608.6	0609.3	1.1	31.0			
	650	GORK	4 S/F	0608.7	0609.5	1.2	26.0			
	2850	CRIM	28 PRE	0614.0	0620.9	9.0	9.4	3.0		
	2850	CRIM	30 PBI	0623.0	0649.0	91.0	38.0	13.0		
	2850	CRIM	47 GB	0623.0	0634.2		856.0			
	2850	CRIM	47 GB	0623.0	0626.3	26.0	1280.0U			
	260	ONDR	42 SER	0630.0	0824.4	510.0				
	204	IZMI	41 F	0638.0	0638.2	0.7	320.0			
	2850	CRIM	1 S	0703.0	0703.5	2.0	14.0	5.0		
	950	GORK	21 GRF	0746.9	0826.2	142.0	30.0			
	650	GORK	21 GRF	0803.0E	0826.2	75.0D	20.0			
	5900	KISV	23 GRF	0806.4	0819.9	28.4	24.0			
	536	ONDR	48 C	0808.0	0824.0	18.5				
	9500	POTS	40 F	0808.3	0820.0	26.7	15.0			
	600	HUMN	45 C	0808.5	0824.2	27.5	400.0	12.0		
	1470	POTS	40 F	0808.6	0824.4	27.9	107.0			
	2695	LEAR	4 S/F	0809.0E	0809.0	3.0D	120.0			QL=2 ST=2 TYP=3
	1415	LEAR	4 S/F	0809.0E	0809.0	4.0D	98.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0809.0E	0809.0	1.0D	12000.0			QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0809.0E	0809.0	3.0D	56.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0809.0E	0809.0	6.0D	9600.0			QL=4 ST=2 TYP=6
	2695	SVTO	4 S/F	0809.0E	0809.0	3.0D	100.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0809.0E	0809.0	4.0D	60.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0809.0E	0809.0	1.0D	46.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0809.0E	0809.0	4.0D	2400.0			QL=4 ST=2 TYP=6
	33	UPIC	32 ABS	0809.0	0830.0	33.0				
	950	GORK	46 C	0809.0	0821.1		50.0			
	650	GORK	46 C	0809.0	0818.2		34.0			
	3013	IZMI	7 C	0809.0	0809.5	7.0	70.0	30.0		
	5900	KISV	4 S/F	0809.0	0809.5	5.5	36.0			
	3000	POTS	42 SER	0809.0	0809.5	23.0	85.0			
	650	GORK	46 C	0809.0	0824.6		245.0			
	950	GORK	46 C	0809.0	0824.8		670.0			
	950	GORK	46 C	0809.0	0809.9	17.2	77.0			
	650	GORK	46 C	0809.0	0809.9	17.2	55.0			
	2950	GORK	4 S/F	0809.1	0809.5	3.5	96.0			
	2950	GORK	30 PBI	0809.1	0812.6	23.3	13.5			
	500	HIRA	42 SER	0809.2	0824.2	18.0	2200.0		0	
	9300	KISV	2 S/F	0809.2	0809.8	3.8	20.0			
	9300	KISV	23 GRF	0809.2	0819.8	29.0	19.0			
	200	HIRA	6 S	0809.3	0809.3	1.3	6000.0	500.0		0
	9100	GORK	21 GRF	0809.3	0809.9	35.5	17.6			
	204	IZMI	42 SER	0809.4	0809.7	16.0	10000.0			
	808	ONDR	49 GB	0809.5	0824.5	22.5	257.0			
	430	KRAK	45 C	0813.6E	0824.3U	19.0D	200.0D	18.0		
	810	KRAK	45 C	0813.8E	0824.0	16.0D	114.0	14.0		
	9100	GORK	1 S	0819.2	0819.8	2.4	12.0			
	2950	GORK	4 S/F	0823.9	0824.4	3.1	62.0			
	200	HIRA	6 S	0824.0	0824.1	1.0	3000.0	300.0		0
	3013	IZMI	5 S	0824.0	0824.5	6.0	45.0	20.0		
	5900	KISV	4 S/F	0824.0	0824.5	2.1	46.0			
	9300	KISV	2 S/F	0824.1	0824.5	1.1	12.0			
	9100	GORK	1 S	0824.2	0824.5	1.1	10.0			
	950	GORK	4 S/F	0846.7	0847.0	0.7	25.0			
	650	GORK	4 S/F	0846.7	0847.1	0.6	40.0			
	410	SGMR	8 S	1308.0E	1308.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1308.0E	1308.0	U	470.0			QL=4 ST=2 TYP=3
	33	UPIC	3 S	1310.9	1311.0	0.4				
	536	ONDR	42 SER	1535.0	1635.5	65.0	498.0			
	410	SGMR	8 S	1617.0E	1618.0	1.0D	110.0			QL=2 ST=2 TYP=3
	610	SVTO	4 S/F	1617.0E	1618.0	3.0D	300.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1617.0E	1618.0	8.0D	86.0			QL=4 ST=2 TYP=3
	808	ONDR	48 C	1618.0	1618.0	2.0	341.0			
	1415	SGMR	8 S	1618.0E	1618.0	1.0D	150.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1618.0E	1618.0	2.0D	360.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1618.0E	1618.0	2.0D	150.0			QL=4 ST=2 TYP=3
	600	HUMN	41 F	1618.0	1618.3	1.5	47.0			
	610	SGMR	49 GB	1635.0E	1635.0	1.0D	640.0			QL=2 ST=2 TYP=6

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
17	610	SVTO	8 S	1635.0E	1636.0	1.0D	370.0			QL=4 ST=2 TYP=3
	9400	HUAN	20 GRF	1945.1	2008.7	63.3	10.4	5.9		
	245	SGMR	4 S/F	1956.0E	1956.0	3.0D	58.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	2320.0E	2320.0	8.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	2320.0E	2320.0	8.0D	88.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2320.0E	2320.0	U	230.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2320.0E	2320.0	U	130.0			QL=4 ST=2 TYP=3
18	280	CUBA	44 NS	1257.0E		325.0D		26.0		
	245	PALE	8 S	0336.0E	0336.0	1.0D	100.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0336.0E	0340.0	5.0D	18.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0340.0E	0341.0	1.0D	79.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0340.0E	0341.0	1.0D	16.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0340.0E	0341.0	1.0D	22.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	0340.8	0341.1	0.5	20.0			
	950	GORK	2 S/F	0340.8	0341.1	0.5	12.0			
	410	LEAR	8 S	0513.0E	0513.0	1.0D	43.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0513.0E	0513.0	1.0D	510.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0513.0E	0513.0	1.0D	540.0			QL=4 ST=2 TYP=6
	950	GORK	22 GRF	0513.4	0513.8	8.5	6.0			
	650	GORK	22 GRF	0513.4	0513.8	8.5	3.0			
	33	UPIC	45 C	0513.5	0513.6	1.5				
	260	ONDR	40 F	0700.0	0746.8	570.0				
	204	IZMI	41 F	0759.0	0804.0	6.5	750.0			
	204	IZMI	41 F	0820.0	0822.4	4.5	6000.0			
	245	LEAR	49 GB	0821.0E	0822.0	1.0D	1800.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0821.0E	0822.0	1.0D	1800.0			QL=4 ST=2 TYP=6
	33	UPIC	45 C	0821.5	0822.5	2.0				
	127	TORN	8 S	0821.8	0822.4	2.0	2400.0	280.0		
	950	GORK	3 S	0822.1	0822.4	2.2	14.0			
	650	GORK	4 S/F	0822.1	0822.4	2.2	13.0			
	810	KRAK	8 S	0822.5	0822.5	0.1	11.0			
	430	KRAK	8 S	0822.5	0822.9	1.0	54.0			
	610	LEAR	8 S	0824.0E	0824.0	U	35.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0824.0E	0824.0	U	35.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0824.0E	0824.0	U	98.0			QL=4 ST=2 TYP=3
	536	ONDR	8 S	0824.0	0824.0	0.5	165.0			
	245	SVTO	49 GB	0843.0E	0844.0	2.0D	550.0			QL=2 ST=3 TYP=6
	430	KRAK	8 S	0908.5	0908.7	0.6	62.0			
	204	IZMI	7 C	0936.0	0936.2	1.5	35.0			
	204	IZMI	7 C	1005.0	1005.3	0.7	60.0			
	204	IZMI	41 F	1049.5	1049.6	5.0	200.0			
	127	TORN	45 C	1052.5	1053.7	3.6	50.0	3.0		
	410	SGMR	8 S	1236.0E	1237.0	1.0D	86.0			QL=2 ST=2 TYP=3
	235	CUBA		1257.0E		325.0D		20.0		
	245	SVTO	8 S	1328.0E	1328.0	1.0D	140.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	1333.2	1334.5	3.0	230.0	20.0		
	9400	HUAN	1 S	1453.7	1455.6	3.7	3.7	2.8		
9400	HUAN	1 S	1634.8	1636.0	3.1	5.6	3.4			
2800	PENT	20 GRF	1912.0	1951.0	154.0	7.2	3.0			
1415	PALE	4 S/F	2239.0E	2240.0	8.0D	26.0			QL=4 ST=2 TYP=3	
610	PALE	4 S/F	2239.0E	2241.0	7.0D	18.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	2239.0E	2243.0	7.0D	1100.0			QL=4 ST=2 TYP=6	
8800	PALE	4 S/F	2239.0E	2243.0	8.0D	23.0			QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2239.0E	2244.0	8.0D	30.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	2239.0E	2243.0	7.0D	990.0			QL=2 ST=2 TYP=7	
100	HIRA	46 C	2239.4	2240.0U	4.0	1000.0D				
500	HIRA	42 SER	2239.7	2242.0	9.0	50.0			MR	
2800	PENT	4 S/F	2239.8	2241.7	9.7	35.9	7.0			
2695	PALE	4 S/F	2240.0E	2241.0	7.0D	34.0			QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	2240.0E	2245.0	7.0D	19.0			QL=4 ST=2 TYP=3	
410	PALE	4 S/F	2240.0E	2241.0	6.0D	280.0			QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	2240.0E	2241.0	5.0D	160.0			QL=4 ST=2 TYP=3	
200	HIRA	42 SER	2240.0	2242.5	5.3	4000.0			WR	
4995	SGMR	8 S	2244.0E	2244.0	U	24.0			QL=4 ST=2 TYP=3	
19	245	LEAR	44 NS	0401.0E	0436.0	177.0D	240.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	15.0			
	260	ONDR	44 NS	0600.0E	1242.6	630.0D	277.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
19	200	GORK	44 NS	0609.0E		171.0D		5.0		
	127	TORN	43 NS	1020.0		170.0		2.0		V=1,DISTURBED
	235	CUBA	44 NS	1255.0E		465.0D		20.0		
	280	CUBA	44 NS	1255.0E		465.0D		28.0		
	245	SVTO	44 NS	1333.0E	1343.0	55.0D	130.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1333.0E	1410.0	372.0D	130.0			QL=2 ST=2 TYP=1
	245	LEAR	8 S	0055.0E	0055.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0122.0E	0122.0	U	59.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0149.0E	0149.0	U	49.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0403.0E	0404.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0427.0E	0427.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0435.0E	0436.0	1.0D	200.0			QL=4 ST=2 TYP=3
	950	GORK	2 S/F	0459.5	0500.9	1.7	7.0			
	33	UPIC	45 C	0535.8	0536.5	1.7				
	33	UPIC	4 S/F	0620.0	0620.6	1.8				
	245	LEAR	8 S	0723.0E	0723.0	U	72.0			QL=2 ST=2 TYP=3
	204	IZMI	5 S	0733.0	0733.2	0.4	98.0	50.0		
	100	GORK	46 C	0739.3	0752.0	41.7	1700.0			
	100	GORK	46 C	0739.3	0753.6		2600.0			
	100	GORK	46 C	0846.9	0854.1		1700.0			
	100	GORK	46 C	0846.9	0848.9	8.0	1700.0			
	100	GORK	4 S/F	0900.0	0900.6	1.0	900.0			
	100	GORK	8 S	0915.1	0915.2	0.4	1800.0			
	100	GORK	47 GB	0917.5	0942.2	55.5	21500.0			
	950	GORK	2 S/F	0959.0	0959.3	0.6	5.5			
	5900	KISV	2 S/F	0959.5	1000.4	3.0	6.0			
	1470	POTS	40 F	1002.3	1002.8	8.5	8.0			
	33	UPIC	42 SER	1100.5		153.5				
	100	GORK	8 S	1113.2	1113.4	0.4	100.0			
	127	TORN	4 S/F	1126.6	1127.1	1.8	140.0	20.0		
	1470	POTS	40 F	1219.0	1238.3	30.2	7.0			
	430	KRAK	42 SER	1221.5	1241.0	23.0	170.0D			
	100	GORK	42 SER	1222.0	1222.2	21.1	850.0			
	100	GORK	42 SER	1222.0	1240.6		4100.0			
	245	SGMR	8 S	1229.0E	1229.0	U	150.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1229.0E	1229.0	1.0D	120.0			QL=2 ST=2 TYP=3
	536	ONDR	42 SER	1230.0	1240.5	26.0	171.0			
	127	TORN	46 C	1233.5	1242.0	12.0	580.0	40.0		
	5900	KISV	2 S/F	1235.7	1237.6	6.5	9.0			
	2950	GORK	2 S/F	1235.8	1236.7	3.7	7.0			
	245	SVTO	8 S	1238.0E	1238.0	U	170.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1240.0E	1240.0	U	43.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1240.0E	1242.0	2.0D	230.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1240.0E	1242.0	2.0D	75.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1240.0E	1242.0	2.0D	220.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1240.0E	1240.0	2.0D	200.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1240.0	1240.4	1.5	38.0	6.0		
	650	GORK	46 C	1240.5	1242.1		25.0			
	950	GORK	4 S/F	1240.5	1240.6	2.5	23.0			
	650	GORK	46 C	1240.5	1240.8	2.0	34.0			
	810	KRAK	8 S	1240.6	1240.7	0.2	22.0			
	245	SGMR	8 S	1321.0E	1321.0	2.0D	64.0			QL=2 ST=2 TYP=3
	245	SVTO	4 S/F	1321.0E	1321.0	3.0D	240.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1326.0E	1327.0	1.0D	98.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1326.0E	1327.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1750.0E	1750.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1750.0E	1750.0	1.0D	160.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1750.0E	1751.0	1.0D	120.0			QL=4 ST=2 TYP=3
	235	CUBA	48 C	1750.7	1803.1	47.2	144.0			
	280	CUBA	48 C	1750.7	1800.8	47.2	402.0			
	1415	PALE	4 S/F	1800.0E	1803.0	4.0D	28.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1800.0E	1800.0	U	440.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1800.0E	1800.0	U	37.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1800.0E	1803.0	4.0D	42.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1800.0E	1800.0	4.0D	520.0			QL=2 ST=2 TYP=6
	2800	PENT	4 S/F	1800.1	1803.2	7.2	49.8	10.0		
	610	PALE	4 S/F	1801.0E	1804.0	3.0D	28.0			QL=4 ST=2 TYP=3
	9400	HUAN	1 S	1801.0	1803.4	7.8	9.5	4.5		
	410	SGMR	8 S	1803.0E	1803.0	U	28.0			QL=2 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks	
19	2695	SGMR	8 S	1803.0E	1803.0	U	45.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1803.0E	1804.0	1.0D	29.0			QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1804.0E	1804.0	2.0D	30.0			QL=2 ST=2 TYP=3	
	245	PALE	4 S/F	1820.0E	1831.0	13.0D	72.0			QL=4 ST=2 TYP=5	
	2800	PENT	1 S	1820.6	1821.8	3.2	7.3	2.0			
	2800	PENT	1 S	1855.9	1856.5	4.8	7.3	2.0			
	245	PALE	49 GB	1856.0E	1856.0	U	2300.0			QL=4 ST=2 TYP=6	
	245	SGMR	49 GB	1856.0E	1856.0	U	2300.0			QL=2 ST=2 TYP=6	
	410	SGMR	8 S	1856.0E	1856.0	U	55.0			QL=2 ST=2 TYP=3	
	410	PALE	8 S	2152.0E	2152.0	U	50.0			QL=4 ST=2 TYP=3	
	245	PALE	49 GB	2152.0E	2152.0	U	510.0			QL=4 ST=2 TYP=6	
	245	SGMR	49 GB	2152.0E	2152.0	2.0D	540.0			QL=2 ST=2 TYP=6	
	20	127	TORN	43 NS	1004.0		110.0		1.0		V=1,DISTURBED
		280	CUBA	44 NS	1238.0E		472.0D		21.0		
235		CUBA	44 NS	1258.0E		472.0D		15.0			
245		SVTO	44 NS	1345.0E	1442.0	57.0D	96.0			QL=4 ST=2 TYP=1	
500		HIRA	45 C	0009.6	0010.5	2.5	10.0	4.0		0	
245		PALE	8 S	0103.0E	0103.0	1.0D	69.0			QL=4 ST=2 TYP=3	
245		LEAR	8 S	0211.0E	0211.0	U	460.0			QL=4 ST=2 TYP=3	
245		PALE	8 S	0211.0E	0211.0	U	480.0			QL=4 ST=2 TYP=3	
9100		GORK	21 GRF	0251.0E	0507.3	182.0D	22.0				
245		LEAR	49 GB	0429.0E	0430.0	1.0D	15000.0			QL=4 ST=2 TYP=6	
245		PALE	49 GB	0429.0E	0430.0	1.0D	16000.0			QL=4 ST=2 TYP=6	
500		HIRA	42 SER	0430.0	0430.0	9.7	5.0			0	
245		SVTO	49 GB	0430.0E	0430.0	U	13000.0			QL=4 ST=2 TYP=6	
2950		GORK	1 S	0430.0	0430.2	2.7	5.0				
650		GORK	21 GRF	0430.0	0431.5	51.6	5.0				
950		GORK	21 GRF	0430.0	0431.5	51.3	7.5				
2840		PEKG	3 S	0500.0	0504.1	14.0	94.4				
2950		GORK	4 S/F	0501.0U	0504.1	4.0D	70.0				
2950		GORK	29 PBI	0501.0U	0505.6	16.8D	14.0				
950		GORK	46 C	0501.3	0502.1	4.7	25.0				
950		GORK	46 C	0501.3	0504.2		98.0				
950		GORK	46 C	0501.3	0503.2		94.0				
500		HIRA	46 C	0501.5	0503.4	7.5	320.0	100.0		WR	
610		LEAR	8 S	0502.0E	0503.0	2.0D	150.0			QL=4 ST=2 TYP=3	
410		LEAR	4 S/F	0502.0E	0503.0	3.0D	450.0			QL=4 ST=2 TYP=3	
4995		LEAR	4 S/F	0502.0E	0504.0	3.0D	110.0			QL=4 ST=2 TYP=3	
8800		LEAR	4 S/F	0502.0E	0503.0	4.0D	140.0			QL=4 ST=2 TYP=3	
15400		LEAR	4 S/F	0502.0E	0503.0	3.0D	95.0			QL=2 ST=2 TYP=3	
610		SVTO	4 S/F	0502.0E	0503.0	3.0D	140.0			QL=4 ST=2 TYP=3	
4995		SVTO	4 S/F	0502.0E	0504.0	3.0D	110.0			QL=4 ST=2 TYP=3	
410		SVTO	4 S/F	0502.0E	0503.0	3.0D	470.0			QL=4 ST=2 TYP=3	
8800		SVTO	4 S/F	0502.0E	0503.0	1138.0D	120.0			QL=4 ST=1 TYP=3	
600		HUMN	3 S	0502.0	0503.5	3.8	91.0	25.0			
650		GORK	4 S/F	0502.0	0503.7	4.2	94.0				
9100		GORK	4 S/F	0502.5	0504.0	3.9	130.0				
35000		NOBE	1 S	0502.5	0503.9	2.5	62.0			0,80GHZ:0	
17000		NOBE	4 S/F	0502.5	0503.9	3.0	58.0			L	
245		LEAR	4 S/F	0503.0E	0506.0	6.0D	190.0			QL=4 ST=2 TYP=5	
2695		LEAR	8 S	0503.0E	0504.0	2.0D	79.0			QL=2 ST=2 TYP=3	
1415		LEAR	8 S	0503.0E	0504.0	2.0D	100.0			QL=4 ST=2 TYP=3	
2695		SVTO	8 S	0503.0E	0504.0	2.0D	78.0			QL=4 ST=2 TYP=3	
1415		SVTO	8 S	0503.0E	0504.0	2.0D	97.0			QL=4 ST=2 TYP=3	
245		SVTO	4 S/F	0503.0E	0506.0	6.0D	180.0			QL=4 ST=2 TYP=5	
200		HIRA	42 SER	0503.0	0507.4	7.3	70.0			WL	
260		ONDR	42 SER	0620.0	1343.2	610.0	78.0				
1470		POTS	40 F	0735.8	0741.8	22.0	34.0				
430		KRAK	8 S	0918.2	0918.4	0.4	30.0				
245		SVTO	8 S	1034.0E	1034.0	1.0D	110.0			QL=2 ST=2 TYP=3	
1470		POTS	2 S/F	1036.4	1036.6	2.2	5.0				
430		KRAK	42 SER	1226.8	1227.5	1.1	119.0				
9400	HUAN	20 GRF	1255.9	1306.3	33.7	3.8	2.2				
410	SGMR	4 S/F	1308.0E	1309.0	6.0D	110.0			QL=4 ST=2 TYP=3		
245	SGMR	4 S/F	1336.0E	1345.0	9.0D	63.0			QL=4 ST=2 TYP=3		
245	SVTO	8 S	1337.0E	1337.0	U	150.0			QL=4 ST=2 TYP=3		
127	TORN	4 S/F	1337.2	1337.7	1.3	1400.0	690.0				
33	UPIC	4 S/F	1337.3	1337.7	2.9						

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	9400	HUAN	20 GRF	1736.7	1757.0	51.6	7.5	3.2		
	9400	HUAN	1 S	1912.8	1914.7	5.0	3.8	1.0		
	245	PALE	8 S	1930.0E	1930.0	1.0D	190.0			QL=4 ST=2 TYP=3
	9400	HUAN	1 S	2043.3	2045.5	4.7	5.6	1.8		
	245	PALE	8 S	2144.0E	2145.0	1.0D	190.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	2146.6	2148.0	7.0	25.0	10.0		0
	245	PALE	8 S	2147.0E	2148.0	2.0D	190.0			QL=4 ST=2 TYP=3
21	127	TORN	43 NS	0956.0	1301.7	200.0	40.0	3.0		V=0
	235	CUBA	44 NS	1305.0E		455.0D		21.0		
	280	CUBA	44 NS	1305.0E		455.0D		26.0		
	245	PALE	8 S	0143.0E	0143.0	1.0D	200.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0150.0E	0150.0	U	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0258.0	0307.4	42.0	67.9			
	500	HIRA	46 C	0300.4	0301.7	13.0	140.0	10.0		WR
	610	PALE	4 S/F	0301.0E	0302.0	3.0D	65.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0303.0E	0307.0	5.0D	54.0			QL=4 ST=2 TYP=5
	4995	PALE	4 S/F	0303.0E	0307.0	10.0D	48.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0305.0E	0305.0	U	25.0			QL=4 ST=2 TYP=3
	950	GORK	22 GRF	0305.0	0310.3	9.0	11.0			
	650	GORK	22 GRF	0305.0	0310.3	9.0	5.5			
	8800	PALE	8 S	0306.0E	0307.0	1.0D	24.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0309.0E	0310.0	1.0D	50.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0512.7	0513.7	7.4	12.0			
	2950	GORK	1 S	0539.0	0540.0	2.1	3.2			
	260	ONDR	41 F	0620.0	0839.0	610.0	195.0			
	1470	POTS	40 F	0653.6	0654.4	30.0	12.0			
	2950	GORK	1 S	0725.4	0725.8	3.6	3.8			
	2850	CRIM	1 S	0834.2	0834.5	0.6	19.0	6.0		
	33	UPIC	48 C	0834.9		36.1				
	536	ONDR	2 S/F	0835.0	0841.5	17.5	134.0			
	245	SVTO	4 S/F	0836.0E	0838.0	6.0D	310.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	0837.5	0839.0	12.0	18.0	9.0		
	260	ONDR	49 GB	0837.5	0839.2	23.5	195.0			
	204	IZMI	45 C	0838.0		22.5	250.0			
	650	GORK	29 PBI	0838.0	0845.0	7.6	5.0			
	410	SVTO	8 S	0838.0E	0838.0	1.0D	150.0			QL=4 ST=2 TYP=3
	810	KRAK	3 S	0838.0	0839.5	6.5	20.0	10.0		
	430	KRAK	3 S	0838.0	0840.5U	9.0	34.0	16.0		
	500	HIRA	46 C	0838.0	0841.6	7.0	100.0	15.0		0
	950	GORK	4 S/F	0838.0	0839.7	7.0	25.0			
	650	GORK	4 S/F	0838.0	0839.8	7.0	27.0			
	127	TORN	49 GB	0838.2	0854.2	22.0	6200.0	300.0		
	100	HIRA	42 SER	0838.2	0854.4	20.0	3400.0			
	100	GORK	41 F	0838.3	0854.6	21.7	16700.0			
	200	HIRA	46 C	0838.5	0840.3	5.3	200.0	40.0		
	200	GORK	41 F	0838.8	0854.9		1100.0			
	200	GORK	41 F	0838.8	0842.9	16.2	1000.0			
	5900	KISV	2 S/F	0838.9	0841.7	5.4	9.0			
	204	IZMI	1 S	0839.0	0842.0	5.5	5.0	3.0		
	610	SVTO	8 S	0839.0E	0839.0	1.0D	27.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0839.1	0841.6	5.8	5.0			
	245	SVTO	8 S	0844.0E	0846.0	2.0D	48.0			QL=2 ST=2 TYP=3
	950	GORK	29 PBI	0845.0E	0845.0	7.6D	4.0			
	410	SVTO	8 S	0845.0E	0845.0	U	91.0			QL=2 ST=2 TYP=3
33	UPIC	40 F	0957.8	1002.5	14.5					
33	UPIC	45 C	1051.2	1052.4	1.8					
33	UPIC	45 C	1119.9	1120.9	1.4					
610	SVTO	4 S/F	1155.0E	1233.0	49.0D	240.0			QL=4 ST=3 TYP=5	
950	GORK	21 GRF	1208.6	1221.7	37.2	11.0				
1470	POTS	4 S/F	1215.5	1232.0	24.5	21.0				
650	GORK	21 GRF	1218.6	1235.6	35.4	13.0				
536	ONDR	49 GB	1220.0	1234.0	24.0	215.0				
600	HUMN	3 S	1223.3	1233.8	16.1	130.0	32.0			
260	ONDR	49 GB	1223.5	1232.5	37.0	44.0				
650	GORK	5 S	1224.8	1233.6	10.8	135.0				
810	KRAK	7 C	1225.0	1232.0	10.6	33.0	18.0			
950	GORK	45 C	1225.1	1228.4	10.5	33.0				
950	GORK	45 C	1225.1	1231.8		30.0				

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
21	430	KRAK	45 C	1225.2	1235.0	18.0	175.0	52.0		
	808	ONDR	1 S	1225.5	1231.0	11.5	38.0			
	410	SVTO	4 S/F	1228.0E	1233.0	10.0D	80.0			QL=4 ST=3 TYP=3
	33	UPIC	46 C	1234.5	1247.3	18.2				
	9400	HUAN	2 S/F	1436.2	1438.6	7.6	6.3	3.7		
	536	ONDR	8 S	1438.5	1438.5	0.1	123.0			
	9400	HUAN	1 S	1923.9	1926.5	5.1	5.2	2.5		
22	100	GORK	44 NS	0300.0E		60.0D		3.0		
	204	IZMI	43 NS	0952.0		128.0	15.0			
	245	PALE	8 S	0354.0E	0354.0	U	60.0			QL=4 ST=2 TYP=3
	5900	KISV	20 GRF	0408.1	0434.5	68.0	11.0			
	245	LEAR	8 S	0528.0E	0528.0	U	69.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0528.0E	0528.0	U	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0528.0E	0528.0	U	64.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0533.0E	0534.0	1.0D	69.0			QL=4 ST=2 TYP=3
	260	ONDR	40 F	0600.0	1226.2	630.0	210.0			
	15400	LEAR	8 S	0644.0E	0644.0	1.0D	130.0			QL=2 ST=2 TYP=3
	2950	GORK	23 GRF	0735.4	0745.3	16.3	11.0			
	810	KRAK	4 S/F	0736.5	0737.9	3.5	95.0	24.0		
	3000	POTS	42 SER	0737.0	0737.9	16.0U	22.0			
	1470	POTS	40 F	0737.2	0737.8	18.8	10.0			
	2950	GORK	2 S/F	0737.2	0737.9	1.1	18.0			
	808	ONDR	46 C	0737.5	0738.0	6.5	444.0			
	430	KRAK	8 S	0808.7	0808.7	0.3	17.0			
	5900	KISV	22 GRF	0820.9	0825.5	11.2	6.0			
	9300	KISV	22 GRF	0823.7	0828.2	10.7	7.0			
	430	KRAK	8 S	0832.5	0832.6	0.4	28.0			
	2850	CRIM	25 R	0856.0	1230.0		39.0			
	127	TORN	41 F	0932.0	0935.1	3.7	10.0	3.0		
	2850	CRIM	45 C	0947.1	1001.1		184.0			
	2850	CRIM	45 C	0947.1	0957.3		225.0			
	2850	CRIM	45 C	0947.1	0949.4	15.9	271.0	90.0		
	33	UPIC	42 SER	1003.8	1250.0	167.9				
	2850	CRIM	3 S	1014.7	1015.0	1.8	34.0	11.0		
	127	TORN	42 SER	1049.0	1051.0	8.0	30.0	3.0		
	245	SVTO	8 S	1122.0E	1122.0	U	96.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	1125.8	1126.8	3.2	35.0	12.0		
	2850	CRIM	1 S	1131.1	1132.2	2.5	17.0	6.0		
	2850	CRIM	3 S	1144.9	1146.2	4.5	38.0	13.0		
2850	CRIM	1 S	1154.1	1154.9	2.0	13.0	4.0			
2850	CRIM	3 S	1157.0	1200.7	13.0	115.0	38.0			
245	SGMR	8 S	1251.0E	1251.0	U	83.0			QL=4 ST=2 TYP=3	
127	TORN	7 C	1308.3	1310.1	2.0	15.0	7.0			
245	PALE	49 GB	1753.0E	1754.0	2.0D	1500.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	1753.0E	1754.0	4.0D	1400.0			QL=4 ST=2 TYP=6	
245	SVTO	49 GB	1753.0E	1754.0	2.0D	770.0			QL=2 ST=2 TYP=6	
245	PALE	8 S	2246.0E	2246.0	U	240.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2246.0E	2246.0	U	240.0			QL=4 ST=2 TYP=3	
23	410	LEAR	44 NS	0231.0E	0231.0	1.0D	120.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	20.0			
	235	CUBA	44 NS	1320.0E		450.0D		12.0		
	280	CUBA	44 NS	1320.0E		450.0D		21.0		
	410	PALE	8 S	0231.0E	0231.0	1.0D	120.0			QL=4 ST=2 TYP=3
	5900	KISV	20 GRF	0515.2	0521.1	53.6	8.0			
	2950	GORK	20 GRF	0515.5	0521.2	15.3	73.0			
	9100	GORK	20 GRF	0516.4	0522.0	18.4	83.0			
	2850	CRIM	1 S	0540.1	0541.1	1.8	18.0	6.0		
	260	ONDR	40 F	0600.0	1613.0	630.0	48.0			
	2950	GORK	1 S	0832.2	0832.4	0.6	4.0			
	2850	CRIM	3 S	0917.5	0918.5	2.5	66.0	20.0		
	127	TORN	4 S/F	0928.2	0928.6	2.0	40.0	20.0		
	33	UPIC	42 SER	0952.5	1222.0	150.8				
	127	TORN	5 S	0953.8	0954.3	1.2	60.0	30.0		
	127	TORN	45 C	1326.5	1332.5	6.6	210.0	40.0		
	9400	HUAN	22 GRF	1828.3	1857.0	60.6	9.3	5.1		
2800	PENT	3 S	1854.8	1855.3	2.2	17.6	4.0			
410	PALE	8 S	2013.0E	2013.0	2.0D	11.0			QL=4 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
23	245	PALE	8 S	2013.0E	2013.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2013.0E	2013.0	U	72.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2343.0E	2343.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2350.0E	2350.0	U	220.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2350.0E	2350.0	U	240.0			QL=4 ST=2 TYP=3
24	280	CUBA	44 NS	1300.0E		470.0D		19.0		
	235	CUBA	44 NS	1300.0E		470.0D		11.0		
	245	LEAR	8 S	0131.0E	0131.0	1.0D	65.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0131.0E	0132.0	1.0D	52.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0454.0E	0454.0	U	51.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0454.0E	0454.0	U	52.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	0600.0	0953.7	630.0	156.0			
	2850	CRIM	1 S	0616.1	0619.5	5.0	19.0	6.0		
	536	ONDR	8 S	0641.0	0641.5	1.0	788.0			
	204	IZMI	45 C	0822.5	0823.3	4.0	100.0			
	33	UPIC	45 C	0822.5	0823.3	1.5				
	2850	CRIM	1 S	0825.0	0828.4	7.0	18.0	6.0		
	127	TORN	45 C	0852.0	0855.0	4.0	90.0	10.0		
	204	IZMI	45 C	0852.0	0855.5	13.0	500.0			
	536	ONDR	48 C	0853.5	0854.4	5.4	308.0			
	410	LEAR	8 S	0854.0E	0855.0	1.0D	170.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0854.0E	0855.0	1.0D	170.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0854.0E	0855.0	1.0D	140.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0854.0	0909.7	16.0				
	430	KRAK	46 C	0854.5	0856.0	1.8	220.0D	11.0		
	810	KRAK	40 F	0854.5	0855.6	1.2	6.0	2.0		
	430	KRAK	40 F	0857.8	0858.6	1.7	5.0	2.0		
	2850	CRIM	3 S	0911.8	0912.9	3.7	102.0	33.0		
	33	UPIC	48 C	0951.4	0953.2	6.1				
	1470	POTS	4 S/F	0953.2	0954.6	3.4	14.0			
	204	IZMI	41 F	0953.5	0955.8	6.0	110.0			
	808	ONDR	8 S	1023.5	1023.5	0.2	147.0			
2850	CRIM	29 PBI	1140.0	1145.0	7.0	13.0	4.0			
2850	CRIM	3 S	1140.0	1141.8	5.0	45.0	15.0			
25	235	CUBA	44 NS	1310.0E		470.0D		13.0		
	280	CUBA	44 NS	1310.0E		470.0D		20.0		
	245	LEAR	8 S	0030.0E	0031.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0030.0E	0031.0	1.0D	110.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0030.0E	0031.0	1.0D	26.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0030.0E	0031.0	1.0D	21.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	0352.9	0353.9	2.5	15.0	8.0		0
	245	LEAR	8 S	0353.0E	0354.0	2.0D	180.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0353.0E	0354.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0353.0E	0354.0	1.0D	42.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0353.0E	0354.0	1.0D	150.0			QL=2 ST=2 TYP=3
	2850	CRIM	1 S	0603.0	0604.2	2.0	23.0	8.0		
	1470	POTS	8 S	0732.6	0732.9	1.0	8.0			
	33	UPIC	42 SER	0741.0	0906.8	87.0				
	2950	GORK	1 S	0805.2	0805.7	1.3	58.0			
	950	GORK	1 S	0805.4	0806.0	1.8	65.0			
	1470	POTS	4 S/F	0805.4	0806.0	2.1	11.0			
	127	TORN	46 C	0845.9	0846.4	4.0	1500.0	190.0		
	33	UPIC	45 C	1046.0	1046.5	3.0				
	536	ONDR	42 SER	1047.0	1546.5	300.0	195.0			
430	KRAK	2 S/F	1256.0	1257.5	3.0	24.0	3.0			
26	280	CUBA	43 NS	1520.0		330.0D		21.0		
	235	CUBA	43 NS	1520.0		330.0D		12.0		
	2840	PEKG	5 S	0147.0	0150.8	8.0	21.9			
	2850	CRIM	20 GRF	0601.0	0611.0	45.0	9.0	4.0		
	2850	CRIM	29 PBI	0832.8	0834.4	7.0	6.0	2.0		
	2850	CRIM	1 S	0832.8	0833.4	1.6	14.0	5.0		
	2850	CRIM	2 S/F	0856.2	0857.0	0.9	38.0	12.0		
	2850	CRIM	42 SER	0939.0	0942.2		13.0			
	2850	CRIM	42 SER	0939.0	0939.5	5.2	25.0	8.0		
	2850	CRIM	7 C	1124.0	1125.1		6.0			
	2850	CRIM	7 C	1124.0	1124.4	1.6	21.0	7.0		

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
26	2850	CRIM	7 C	1231.0	1231.2	2.0	24.0	9.0			
	2850	CRIM	7 C	1231.0	1231.7		27.0				
	6700	CUBA	2 S/F	1341.0	1341.5	7.0	6.0	3.0		38R	
	260	ONDR	42 SER	1520.0	1615.3	80.0	107.0				
	235	CUBA	6 S	1525.0	1527.0	2.0	24.0				
	280	CUBA	6 S	1526.0	1527.0	2.0	32.0				
	245	SVTO	8 S	1526.0E	1526.0	1.0D	55.0				QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1543.0E	1544.0	6.0D	110.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1544.0E	1544.0	2.0D	180.0				QL=2 ST=2 TYP=3
	235	CUBA	48 C	1544.0	1545.0	11.0	27.0				
	280	CUBA	48 C	1544.0	1545.0	16.0	33.0				
	9400	HUAN	2 S/F	1555.8	1558.7	6.8	3.9	1.6			
	536	ONDR	42 SER	1558.0	1628.1	42.0	141.0				
	2800	PENT	20 GRF	1855.0	1922.0	153.0	8.5	4.0			
	9400	HUAN	45 C	2008.6	2013.2	11.8	379.1	114.6			
	15400	SGMR	4 S/F	2009.0E	2013.0	7.0D	170.0				QL=4 ST=2 TYP=3
	2695	PALE	49 GB	2009.0E	2013.0	17.0D	1600.0				QL=4 ST=2 TYP=6
	4995	PALE	49 GB	2009.0E	2013.0	11.0D	870.0				QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	2009.0E	2013.0	14.0D	720.0				QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2009.0E	2010.0	16.0D					QL=4 ST=2 TYP=6
	410	SGMR	49 GB	2009.0E	2014.0	15.0D	1800.0				QL=4 ST=2 TYP=6
	610	SGMR	49 GB	2009.0E	2013.0	16.0D	3200.0				QL=4 ST=2 TYP=6
	1415	SGMR	49 GB	2009.0E	2013.0	15.0D	2400.0				QL=4 ST=2 TYP=6
	2695	SGMR	49 GB	2009.0E	2013.0	16.0D	1800.0				QL=2 ST=2 TYP=6
	8800	SGMR	4 S/F	2009.0E	2013.0	10.0D	280.0				QL=4 ST=2 TYP=3
	1415	PALE	49 GB	2009.0E	2013.0	22.0D	2600.0				QL=4 ST=2 TYP=6
	610	PALE	49 GB	2009.0E	2013.0	24.0D	3600.0				QL=4 ST=2 TYP=6
	2800	PENT	47 GB	2009.0	2013.5	35.2	1752.0	350.0			
	6700	CUBA	46 C	2009.2	2013.0	17.8	290.0				13R
	15000	CUBA	3 S	2009.3	2013.3	10.2	145.0	72.0			2R
	8800	PALE	4 S/F	2010.0E	2013.0	7.0D	370.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2010.0E	2013.0	6.0D	200.0				QL=4 ST=2 TYP=3
	410	PALE	49 GB	2010.0E	2014.0	22.0D	2100.0				QL=4 ST=2 TYP=7
245	PALE	49 GB	2010.0E	2010.0	24.0D					QL=4 ST=2 TYP=6	
280	CUBA	49 GB	2010.0	2011.0	40.0	4065.0				2050 OFF	
235	CUBA	49 GB	2010.0	2011.0	40.0D	3992.0				2050 OFF	
9400	HUAN	29 PBI	2020.4	2020.4	27.7	23.4	10.8				
245	PALE	8 S	2047.0E	2048.0	1.0D	160.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2259.0E	2300.0	1.0D	85.0				QL=4 ST=2 TYP=3	
27	33	UPIC	43 NS	0631.5		325.5					
	280	CUBA	44 NS	1254.0E		476.0D		26.0			
	235	CUBA	44 NS	1254.0E		476.0D		15.0			
	2840	PEKG	20 GRF	0613.0	0630.0	29.0	4.1				
	204	IZMI	7 C	0821.0	0822.7	3.0	25.0				
	127	TORN	46 C	1022.2	1024.6	4.3	2400.0	60.0			
	260	ONDR	46 C	1022.2	1025.9	5.5	20.0				
	204	IZMI	41 F	1022.5	1026.0	4.0	170.0				
	410	SVTO	8 S	1102.0E	1103.0	1.0D	39.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1102.0E	1103.0	1.0D	130.0				QL=4 ST=2 TYP=3
	3000	POTS	20 GRF	1320.0	1411.0	85.0U	29.0				
	6700	CUBA	20 GRF	1321.0	1413.0	144.0	27.0	13.0			WR
	9400	HUAN	20 GRF	1327.0	1408.8	803.0	6.6	4.1			
	15000	CUBA	20 GRF	1335.0	1418.0	95.0	42.0	21.0			00R
	9500	POTS	20 GRF	1336.5	1412.7	68.5U	25.0				
	245	PALE	8 S	1755.0E	1755.0	1.0D	57.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1755.0E	1755.0	1.0D	50.0				QL=4 ST=2 TYP=3
	9400	HUAN	1 S	1813.6	1816.0	5.1	7.5	4.3			
	2800	PENT	3 S	2006.0	2007.9	5.1	11.9	4.0			
	245	PALE	8 S	2218.0E	2218.0	1.0D	210.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	2219.0E	2219.0	2.0D	180.0				QL=4 ST=2 TYP=3
245	SGMR	8 S	2232.0E	2232.0	U	51.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2303.0E	2303.0	U	59.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2305.0E	2305.0	1.0D	120.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2306.0E	2306.0	1.0D	99.0				QL=4 ST=2 TYP=3	
245	LEAR	8 S	2324.0E	2324.0	U	140.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2324.0E	2324.0	U	160.0				QL=4 ST=2 TYP=3	
28	100	GORK	44 NS	0700.0E		360.0D		3.0			

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

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Jun 91

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22	Mean W/m 2 Hz)		
28	235	CUBA	44 NS	1305.0E		465.0D		12.0		
	280	CUBA	44 NS	1305.0E		465.0D		24.0		
	245	LEAR	8 S	0046.0E	0047.0	1.0D	400.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0046.0E	0047.0	1.0D	26.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0047.0E	0047.0	U	86.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0047.0E	0047.0	U	430.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0141.0	0142.7	4.0	16.5			
	2840	PEKG	20 GRF	0156.0	0159.0	64.0	13.1			
	245	LEAR	49 GB	0213.0E	0214.0	2.0D	600.0			QL=4 ST=2 TYP=6
	1415	LEAR	8 S	0213.0E	0214.0	1.0D	31.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0213.0E	0214.0	2.0D	600.0			QL=4 ST=2 TYP=6
	9100	GORK	21 GRF	0248.0E	0656.0	495.0D	52.0			
	2950	GORK	23 GRF	0248.0E	0541.7	590.0D	80.0			
	2840	PEKG	5 S	0346.0	0347.8	3.0	15.5			
	2950	GORK	1 S	0346.1	0347.6	2.9	9.0			
	245	LEAR	8 S	0413.0E	0413.0	1.0D	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0417.0	0426.2	36.0	42.2			
	950	GORK	21 GRF	0421.8	0435.2	35.8	8.0			
	650	GORK	23 GRF	0422.9	0620.2	267.0	16.0			
	2950	GORK	2 S/F	0424.4	0426.1	4.7	166.0			
	650	GORK	46 C	0441.2	0442.5	3.8	14.0			
	650	GORK	46 C	0441.2	0443.6		25.0			
	950	GORK	4 S/F	0442.0	0443.6	3.2	168.0			
	2840	PEKG	28 PRE	0453.0	0516.0	23.0	7.9			
	245	LEAR	8 S	0456.0E	0456.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0456.0E	0456.0	U	57.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0516.0	0541.6	64.0	180.2			
	9300	KISV	25 R	0533.0	0543.0		57.0			
	950	GORK	21 GRF	0533.6	0551.5	63.9	18.0			
	650	GORK	2 S/F	0533.7	0534.2	1.7	3.0			
	1415	LEAR	20 GRF	0534.0E	0538.0	21.0D	56.0			QL=4 ST=2 TYP=2
	2695	LEAR	20 GRF	0534.0E	0541.0	30.0D	130.0			QL=2 ST=2 TYP=2
	1415	SVTO	4 S/F	0535.0E	0538.0	22.0D	57.0			QL=4 ST=2 TYP=3
	2695	SVTO	20 GRF	0535.0E	0541.0	41.0D	140.0			QL=4 ST=2 TYP=2
	4995	SVTO	20 GRF	0535.0E	0542.0	48.0D	74.0			QL=4 ST=2 TYP=2
	4995	LEAR	20 GRF	0536.0E	0542.0	28.0D	61.0			QL=4 ST=2 TYP=2
	15400	SVTO	8 S	0540.0E	0541.0	1.0D	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0540.0E	0542.0	2.0D	25.0			QL=4 ST=2 TYP=3
	950	GORK	46 C	0557.3	0600.5	8.7	30.0			
	950	GORK	46 C	0557.3	0604.8		12.0			
	260	ONDR	41 F	0600.0	0722.0U	290.0				
	808	ONDR	41 F	0600.0	0722.6	640.0	384.0			
	2840	PEKG	29 PBI	0620.0	0620.0	60.0	55.4			
	9500	POTS	21 GRF	0645.0E	0738.0U	315.0U	18.0			
	1470	POTS	21 GRF	0655.7	0740.0	154.3	6.0			
	3000	POTS	21 GRF	0700.0U	0741.0	135.0U	10.0			
	536	ONDR	49 GB	0700.0	0721.8	22.0	160.0			
	536	ONDR	40 F	0700.0	0721.8	200.0	160.0			
	33	UPIC	42 SER	0706.0	0708.6	114.0				
	100	GORK	47 GB	0706.0	0711.9	38.0	19000.0			
	2840	PEKG	45 C	0714.0	0722.0	11.0	130.5			
	950	GORK	46 C	0714.4	0722.2		240.0			
	950	GORK	46 C	0714.4	0718.3	9.6	80.0			
	430	KRAK	45 C	0716.0	0721.5	10.3	230.0D	38.0		
	3013	IZMI	41 F	0716.0	0721.8	10.5	73.0			
204	IZMI	41 F	0716.5	0722.0	10.0	5200.0				
3000	POTS	4 S/F	0716.5	0722.2	8.5	11.0				
1470	POTS	45 C	0716.5	0722.2	12.1	340.0				
200	HIRA	42 SER	0716.8	0721.2	8.0	5400.0			WL	
2950	GORK	46 C	0716.8	0718.4	7.4	38.0				
600	HUMN	45 C	0716.8	0721.7	15.7	88.0	9.0			
2950	GORK	46 C	0716.8	0721.9		68.0				
9100	GORK	46 C	0717.0	0722.0		214.0				
5900	KISV	45 C	0717.0	0722.0	8.0	268.0				
245	LEAR	8 S	0717.0E	0718.0	2.0D	250.0			QL=4 ST=2 TYP=3	
1415	LEAR	8 S	0717.0E	0718.0	2.0D	88.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0717.0E	0718.0	2.0D	250.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S	0717.0E	0718.0	2.0D	89.0			QL=4 ST=2 TYP=3	
9300	KISV	45 C	0717.0	0722.0U	10.8	113.0D				

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
28	9100	GORK	46 C	0717.0	0718.3	7.3	45.0			
	9300	KISV	45 C	0717.0	0718.3		47.0			
	5900	KISV	45 C	0717.0	0718.3		106.0			
	9500	POTS	4 S/F	0717.0	0721.6	9.0	192.0			
	500	HIRA	45 C	0717.2	0721.4	15.0	230.0	20.0		WL
	100	HIRA	42 SER	0717.3	0722.0	8.0	2800.0			
	810	KRAK	45 C	0717.5	0722.4	7.5	207.0	38.0		
	808	ONDR	49 GB	0717.5	0722.6	12.6	384.0			
	610	LEAR	8 S	0718.0E	0718.0	U	28.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0718.0E	0718.0	U	36.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0718.0E	0718.0	U	54.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0718.0E	0718.0	U	53.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0718.0E	0718.0	1.0D	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0718.0E	0718.0	1.0D	80.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0718.0E	0718.0	U	46.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0721.0E	0721.0	2.0D	120.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0721.0E	0721.0	1.0D	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0721.0E	0722.0	2.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0721.0E	0721.0	2.0D	400.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0721.0E	0721.0	2.0D	330.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0721.0E	0721.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0721.0E	0722.0	2.0D	1400.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0721.0E	0721.0	1.0D	110.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0721.0E	0721.0	2.0D	390.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0721.0E	0722.0	1.0D	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0721.0E	0721.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0721.0E	0722.0	2.0D	1200.0			QL=4 ST=2 TYP=6
	950	GORK	29 PBI	0724.0E	0724.0	2.1D	25.0			
	2840	PEKG	29 PBI	0725.0	0725.0	21.0	10.4			
	430	KRAK	8 S	0734.7	0734.7	1.0	220.0D			
	650	GORK	46 C	0746.3	0748.5	4.7	27.0			
	650	GORK	46 C	0746.3	0752.7		85.0			
	430	KRAK	2 S/F	0753.6	0753.7	1.5	39.0	5.0		
	100	GORK	47 GB	0756.3	0820.2	34.7	20600.0			
	2840	PEKG	3 S	0758.0	0803.4	16.0	60.0			
	1470	POTS	4 S/F	0759.6	0803.2	9.0	40.0			
	950	GORK	4 S/F	0800.0	0803.2	6.0	46.0			
	3000	POTS	4 S/F	0800.0	0803.4	7.5	47.0			
	3013	I2MI	5 S	0800.0	0803.5	10.0	43.0	20.0		
	650	GORK	2 S/F	0800.5	0803.5	4.8	55.0			
	2950	GORK	4 S/F	0800.6	0803.4	5.2	32.0			
	430	KRAK	8 S	0800.6	0801.5U	1.4	220.0D			
	9500	POTS	4 S/F	0801.5	0803.3	5.5	67.0			
	9300	KISV	4 S/F	0801.5	0803.4	6.8	93.0			
	5900	KISV	4 S/F	0801.6	0803.4	5.0	156.0			
	9100	GORK	4 S/F	0801.8	0803.3	4.6	80.0			
	245	LEAR	8 S	0802.0E	0803.0	2.0D	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0802.0E	0803.0	2.0D	100.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0802.0E	0803.0	2.0D	42.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0802.0E	0803.0	1.0D	45.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0802.0E	0803.0	2.0D	39.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0802.0E	0803.0	2.0D	50.0			QL=4 ST=2 TYP=3
	810	KRAK	1 S	0802.7	0803.3	1.4	13.0	7.0		
	15400	LEAR	8 S	0803.0E	0803.0	U	35.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0803.0E	0803.0	1.0D	59.0			QL=4 ST=2 TYP=3
	127	TORN	49 GB	0807.4	0810.0U	4.6	4000.0	2000.0		
	204	I2MI	42 SER	0936.5	0949.5	15.0	170.0			
	245	SGMR	4 S/F	0946.0E	0947.0	5.0D	95.0			QL=2 ST=2 TYP=3
	410	SGMR	4 S/F	0946.0E	0947.0	5.0D	310.0			QL=2 ST=2 TYP=3
	600	HUMN	2 S/F	0946.6	0947.0	1.2	24.0	4.0		
	245	SVTO	8 S	0947.0E	0947.0	U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0947.0E	0947.0	U	79.0			QL=4 ST=2 TYP=3
	1470	POTS	2 S/F	0947.0	0947.5	1.7	5.0			
	33	UPIC	42 SER	1004.5	1046.3	112.4				
	810	KRAK	7 C	1043.7	1045.9	3.5	27.0	13.0		
	245	SGMR	8 S	1044.0E	1045.0	2.0D	350.0			QL=2 ST=2 TYP=3
	410	SGMR	49 GB	1044.0E	1045.0	2.0D	740.0			QL=2 ST=2 TYP=6
	410	SVTO	49 GB	1044.0E	1045.0	2.0D	520.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1044.0E	1045.0	2.0D	470.0			QL=4 ST=2 TYP=3

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

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
28	5900	KISV	23 GRF	1044.1	1054.5	25.5	10.0			
	100	GORK	4 S/F	1044.5	1045.4	2.3	4900.0			
	3013	IZMI	5 S	1044.5	1045.7	5.0	31.0	15.0		
	600	HUMN	2 S/F	1044.6	1046.0	10.2	25.0	4.0		
	127	TORN	4 S/F	1044.7	1046.1	2.9	3500.0	920.0		
	204	IZMI	45 C	1044.8	1046.0	4.5	2500.0			
	2950	GORK	4 S/F	1044.8	1045.5	3.2	25.0			
	5900	KISV	4 S/F	1044.8	1045.5	4.0	52.0			
	2695	SGMR	8 S	1045.0E	1045.0	1.0D	34.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1045.0E	1045.0	1.0D	68.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1045.0E	1046.0	2.0D	120.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1045.0E	1046.0	1.0D	36.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1045.0E	1046.0	2.0D	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1045.0E	1045.0	1.0D	32.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1045.0E	1045.0	U	53.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1045.0E	1046.0	795.0D	37.0			QL=2 ST=1 TYP=3
	430	KRAK	46 C	1045.0	1045.0U	7.0	220.0D	14.0		
	950	GORK	4 S/F	1045.0	1046.1	2.1	50.0			
	950	GORK	29 PBI	1045.0	1047.1	12.9	13.0			
	650	GORK	4 S/F	1045.0	1046.2	2.2	42.0			
	650	GORK	29 PBI	1045.0	1047.2	15.8	13.0			
	9300	KISV	23 GRF	1045.2	1055.0	24.9	12.0			
	9100	GORK	2 S/F	1045.2	1045.4	1.9	15.0			
	9300	KISV	2 S/F	1045.2	1045.5	3.2	16.0			
	260	ONDR	42 SER	1315.0	1429.0U	205.0				
	127	TORN	41 F	1402.7	1405.4	9.0	80.0	10.0		
	33	UPIC	42 SER	1404.3		44.2				
	280	CUBA	48 C	1424.3	1429.3	10.7				
	1470	POTS	4 S/F	1427.0U	1429.0U	4.5U	13.0			53699
	536	ONDR	2 S/F	1427.5	1428.5	5.0	945.0			
	410	SGMR	49 GB	1428.0E	1429.0	1.0D	1600.0			QL=4 ST=3 TYP=6
	245	SVTO	49 GB	1428.0E	1429.0	4.0D	75000.0			QL=4 ST=3 TYP=6
	410	SVTO	49 GB	1428.0E	1429.0	2.0D	2700.0			QL=4 ST=2 TYP=6
	600	HUMN	1 S	1428.5	1428.9	4.7	61.0	7.0		
	610	SGMR	8 S	1429.0E	1429.0	U	82.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1429.0E	1429.0	U	50.0			QL=4 ST=2 TYP=3
	235	CUBA	48 C	1430.0	1431.3	7.3	411.0			
	33	UPIC	45 C	1649.5	1652.8	3.7				
	410	SGMR	4 S/F	1821.0E	1823.0	7.0D	91.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1823.0E	1823.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1853.0E	1902.0	10.0D	53.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1854.0E	1902.0	9.0D	84.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1901.0E	1902.0	1.0D	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1901.0E	1902.0	1.0D	62.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1940.0E	1940.0	U	91.0			QL=4 ST=2 TYP=3
2800	PENT	3 S	2059.0	2059.6	6.9	19.9	6.0			
245	PALE	8 S	2139.0E	2140.0	2.0D	170.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2140.0E	2140.0	1.0D	160.0			QL=4 ST=2 TYP=3	
29	500	HIRA	27 RF	0026.8	0055.5	46.0	8.0	5.0		WR
	2840	PEKG	1 S	0104.0	0104.5	2.0	5.7			
	245	LEAR	49 GB	0107.0E	0107.0	2.0D	2300.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0107.0E	0107.0	2.0D	2600.0			QL=4 ST=2 TYP=6
	610	PALE	8 S	0107.0E	0107.0	1.0D	31.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	0107.6	0108.1	1.7	15.0	8.0		0
	410	LEAR	8 S	0126.0E	0126.0	U	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0126.0E	0126.0	U	77.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0223.0E	0223.0	1.0D	76.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0223.0E	0224.0	1.0D	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0301.0E	0301.0	1.0D	350.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0301.0E	0301.0	1.0D	350.0			QL=4 ST=2 TYP=3
	100	GORK	42 SER	0301.3	0301.6	9.2	1400.0			
	2950	GORK	22 GRF	0431.7	0451.2	24.5	9.0			
	2840	PEKG	5 S	0448.0	0451.0	12.0	7.4			
	2850	CRIM	1 S	0526.0	0526.5	1.3	10.0	3.0		
	2950	GORK	20 GRF	0544.4	0555.9	18.4	5.0			
	260	ONDR	42 SER	0640.0	1053.5		205.0			
410	SVTO	8 S	0912.0E	0913.0	1.0D	90.0			QL=4 ST=2 TYP=3	
2850	CRIM	1 S	1202.0	1202.5	2.0	26.0	7.0			

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

JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	9400	HUAN	23 GRF	1524.6	1554.8	88.2	22.9	14.3		
	9400	HUAN	45 C	1538.6	1540.6	5.1	192.7	68.8		
	2695	SGMR	4 S/F	1540.0E	1541.0	7.0D	47.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1540.0E	1541.0	7.0D	200.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1540.0E	1541.0	7.0D	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1540.0E	1540.0	7.0D	55.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1540.0E	1540.0	1.0D	56.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1540.0E	1541.0	3.0D	51.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1540.0E	1541.0	4.0D	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1540.0E	1540.0	4.0D	220.0			QL=4 ST=2 TYP=3
	2800	PENT	3 S	1540.1	1541.5	4.5	36.9	11.0		
	2800	PENT	29 PBI	1544.6	1546.9	180.0	15.0	6.0		
	9400	HUAN	2 S/F	1617.0	1619.0	4.6	7.3	3.0		
	410	PALE	8 S	2019.0E	2019.0	U	90.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2019.0E	2019.0	U	75.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2019.0E	2019.0	1.0D	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2019.0E	2019.0	1.0D	66.0			QL=4 ST=2 TYP=3
30	260	ONDR	44 NS	0600.0E	0629.0	235.0D	99.0			
	204	IZMI	43 NS	0611.0		245.0	15.0			
	260	ONDR	44 NS	1140.0E	1226.5	105.0D	85.0			
	235	CUBA	44 NS	1310.0E		342.0D		13.0		
	280	CUBA	44 NS	1310.0E		342.0D		23.0		
	245	SVTO	44 NS	1550.0E	1556.0	11.0D	140.0			QL=4 ST=2 TYP=1
	2800	PENT	20 GRF	0125.7	0141.6	23.0D	53.4	21.0		
	2840	PEKG	28 PRE	0242.0	0254.0	12.0	16.7			
	2840	PEKG	3 S	0242.4	0243.6	4.6	133.5			
	2695	PALE	8 S	0244.0E	0244.0	2.0D	100.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0244.0E	0244.0	1.0D	35.0			QL=4 ST=2 TYP=3
	2950	GORK	28 PRE	0253.0	0254.0	2.0	38.0			
	2840	PEKG	47 GB	0254.0	0254.5	20.0	1778.0			
	245	LEAR	49 GB	0255.0E	0256.0	5.0D	77000.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0255.0E	0256.0	6.0D	990.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0255.0E	0256.0	5.0D	89000.0			QL=4 ST=2 TYP=6
	8800	PALE	49 GB	0255.0E	0256.0	4.0D	1700.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	0255.0E	0256.0	7.0D	1500.0			QL=4 ST=2 TYP=6
	15400	PALE	49 GB	0255.0E	0256.0	4.0D	1600.0			QL=4 ST=2 TYP=6
	2950	GORK	29 PBI	0255.0	0258.0	36.0	122.0			
	15400	LEAR	49 GB	0255.0E	0256.0	1265.0D	1800.0			QL=2 ST=1 TYP=6
	8800	LEAR	49 GB	0255.0E	0256.0	1265.0D	1300.0			QL=4 ST=1 TYP=6
	4995	LEAR	49 GB	0255.0E	0256.0	1265.0D	1300.0			QL=4 ST=1 TYP=6
	2950	GORK	5 S	0255.0	0256.5	3.0	1270.0			
	9100	GORK	30 PBI	0255.1	0300.0	141.0	41.0			
	9100	GORK	4 S/F	0255.1	0256.2	4.9	2490.0			
	500	HIRA	45 C	0255.6	0257.0	23.0	270.0	120.0		0
	35000	NOBE	7 C	0255.6	0256.5	3.0	1970.0			0-L,80GHZ:NO OB
	17000	NOBE	7 C	0255.6	0256.5	5.0	1350.0			R-L
	200	HIRA	48 C	0255.8	0256.0	8.0	70000.0D	500.0D		0
	650	GORK	5 S	0255.9	0257.0	7.1	425.0			
	950	GORK	29 PBI	0255.9	0303.0	23.2	18.0			
	950	GORK	5 S	0255.9	0256.6	7.1	650.0			
	410	PALE	49 GB	0256.0E	0256.0	4.0D	1600.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0256.0E	0256.0	6.0D	1400.0			QL=4 ST=2 TYP=6
	1415	PALE	49 GB	0256.0E	0256.0	7.0D	1100.0			QL=4 ST=2 TYP=6
	1415	LEAR	49 GB	0256.0E	0256.0	1264.0D	1200.0			QL=4 ST=1 TYP=6
	2695	LEAR	49 GB	0256.0E	0256.0	1264.0D	1400.0			QL=2 ST=1 TYP=6
	610	LEAR	4 S/F	0256.0E	0257.0	1264.0D	450.0			QL=4 ST=1 TYP=3
	100	GORK	46 C	0256.0	0300.1		12600.0			
	100	GORK	46 C	0256.0	0256.4	7.0	26000.0			
	100	HIRA	48 C	0256.2	0256.3	10.0	14000.0			
	650	GORK	29 PBI	0303.0E	0303.0	29.0D	16.0			
	245	PALE	8 S	0427.0E	0427.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0427.0E	0427.0	U	130.0			QL=4 ST=2 TYP=3
	5900	KISV	21 GRF	0500.0	0502.9	31.5	18.0			
	2950	GORK	20 GRF	0501.0	0503.0	5.0	25.0			
9100	GORK	2 S/F	0501.8	0502.4	2.4	10.0				
2950	GORK	20 GRF	0603.0U	0605.4	8.0U	10.0				
9100	GORK	20 GRF	0605.0	0606.0	5.0	4.0				
245	SVTO	8 S	0629.0E	0629.0	U	62.0			QL=4 ST=2 TYP=3	

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

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JUNE 1991

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
30	2850	CRIM	8 S	0707.0	0707.7	1.7	350.0			
	5900	KISV	23 GRF	0726.0	0727.9	28.0	11.0			
	9300	KISV	21 GRF	0727.0	0728.0	23.0	10.0			
	9100	GORK	1 S	0727.9	0728.0	0.8	78.0			
	410	SVTO	8 S	0742.0E	0742.0	U	110.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0829.0E	0830.0	2.0D	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0830.0E	0830.0	1.0D	61.0			QL=4 ST=2 TYP=3
	2850	CRIM	1 S	0837.7	0837.8	0.3	9.0	3.0		
	5900	KISV	2 S/F	0929.4	0929.6	2.0	11.0			
	5900	KISV	2 S/F	0954.0	0955.2	8.0	8.0			
	9500	POTS	29 PBI	1131.8	1135.5	9.2	14.0			
	1470	POTS	4 S/F	1132.4	1134.6	3.8	27.0			
	5900	KISV	2 S/F	1208.0	1211.9	9.0	58.0			
	4995	SGMR	4 S/F	1210.0E	1211.0	3.0D	50.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1210.0E	1211.0	3.0D	56.0			QL=4 ST=2 TYP=3
	9500	POTS	29 PBI	1210.4	1211.3	15.2	21.0			
	245	SGMR	8 S	1229.0E	1229.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1229.0E	1229.0	U	70.0			QL=4 ST=2 TYP=3
	1470	POTS	4 S/F	1237.8	1239.4	3.8	19.0			
	245	SGMR	8 S	1244.0E	1244.0	U	95.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1244.0E	1244.0	U	110.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1258.5	1300.8	3.0				
	280	CUBA	48 C	1327.3	1330.0	72.7	39.0			
	808	ONDR	41 F	1328.0	1338.5	152.0	84.0			
	9500	POTS	20 GRF	1335.0	1341.5	55.0U	11.0			
	6700	CUBA	21 GRF	1336.0	1450.0	263.0	14.0	7.0		WR RAIN
	1470	POTS	4 S/F	1338.8	1339.6	4.2	22.0			
	2800	PENT	42 SER	1517.2	1532.2	47.8	33.9	7.0		
	15000	CUBA	21 GRF	1526.0	1541.0	25.0	68.0	34.0		11R
	8800	SGMR	8 S	1528.0E	1529.0	1.0D	73.0			QL=2 ST=2 TYP=3
	4995	SGMR	4 S/F	1528.0E	1529.0	6.0D	71.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1528.0E	1529.0	2.0D	3100.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1528.0E	1529.0	1.0D	210.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1528.0E	1529.0	2.0D	4000.0			QL=4 ST=2 TYP=6
	8800	SVTO	8 S	1528.0E	1529.0	1.0D	74.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1528.0E	1529.0	5.0D	78.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1528.0E	1529.0	1.0D	420.0			QL=4 ST=2 TYP=3
	260	ONDR	49 GB	1528.5	1529.0	40.0				
	6700	CUBA	46 C	1528.5	1529.5	24.5	92.0	20.0		13R RAIN
	536	ONDR	49 GB	1528.5	1528.5	24.0	159.0			
	9400	HUAN	4 S/F	1528.6	1529.0	5.5	73.8	25.2		
	2695	SGMR	4 S/F	1529.0E	1532.0	5.0D	42.0			QL=2 ST=2 TYP=5
	15400	SVTO	8 S	1529.0E	1529.0	U	44.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1529.0E	1529.0	U	29.0			QL=4 ST=2 TYP=3
	15000	CUBA	1 S	1529.0	1529.3	1.0	34.0	17.0		9R RAIN
	235	CUBA	48 C	1531.0	1558.5	75.3	193.0			
	33	UPIC	32 ABS	1531.5	1558.0	95.0				
	9400	HUAN	30 PBI	1534.1	1534.1	39.9	12.3	4.5		
	245	SGMR	4 S/F	1537.0E	1540.0	5.0D	57.0			QL=4 ST=2 TYP=5
	245	SVTO	4 S/F	1537.0E	1540.0	5.0D	70.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1538.0	1540.0	5.0	28.0	10.0		
	410	SGMR	4 S/F	1538.0E	1539.0	5.0D	45.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1538.0E	1540.0	4.0D	67.0			QL=4 ST=2 TYP=3
410	SVTO	8 S	1538.0E	1539.0	1.0D	57.0			QL=4 ST=2 TYP=3	
9400	HUAN	4 S/F	1538.4	1541.8	5.9	24.6	11.7			
4995	SGMR	4 S/F	1539.0E	1541.0	4.0D	57.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1539.0E	1540.0	4.0D	42.0			QL=2 ST=2 TYP=3	
4995	SVTO	4 S/F	1539.0E	1541.0	3.0D	59.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1540.0E	1540.0	2.0D	35.0			QL=2 ST=2 TYP=3	
610	SVTO	8 S	1540.0E	1540.0	1.0D	80.0			QL=2 ST=2 TYP=3	
8800	SVTO	8 S	1540.0E	1540.0	1.0D	35.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	1540.0E	1541.0	1.0D	31.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	1540.0	1547.9	12.5					
245	SGMR	4 S/F	1553.0E	1556.0	6.0D	110.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1555.0E	1556.0	2.0D	49.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1555.0E	1555.0	1.0D	19.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1556.0E	1556.0	1.0D	28.0			QL=2 ST=2 TYP=3	
9400	HUAN	20 GRF	1846.3	1855.3	37.7	14.0	5.3			
6700	CUBA	23 GRF	1848.0	1850.0	27.0	16.0	8.0		10R RAIN	

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

JUNE 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
30	2800 PENT	3 S	1848.1	1848.8	24.0	53.0	5.0		
	2695 PALE	8 S	1849.0E	1849.0	U	36.0		QL=4 ST=2 TYP=3	
	245 PALE	8 S	1911.0E	1911.0	U	50.0		QL=4 ST=2 TYP=3	

Reports are received routinely from the following observatories:

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

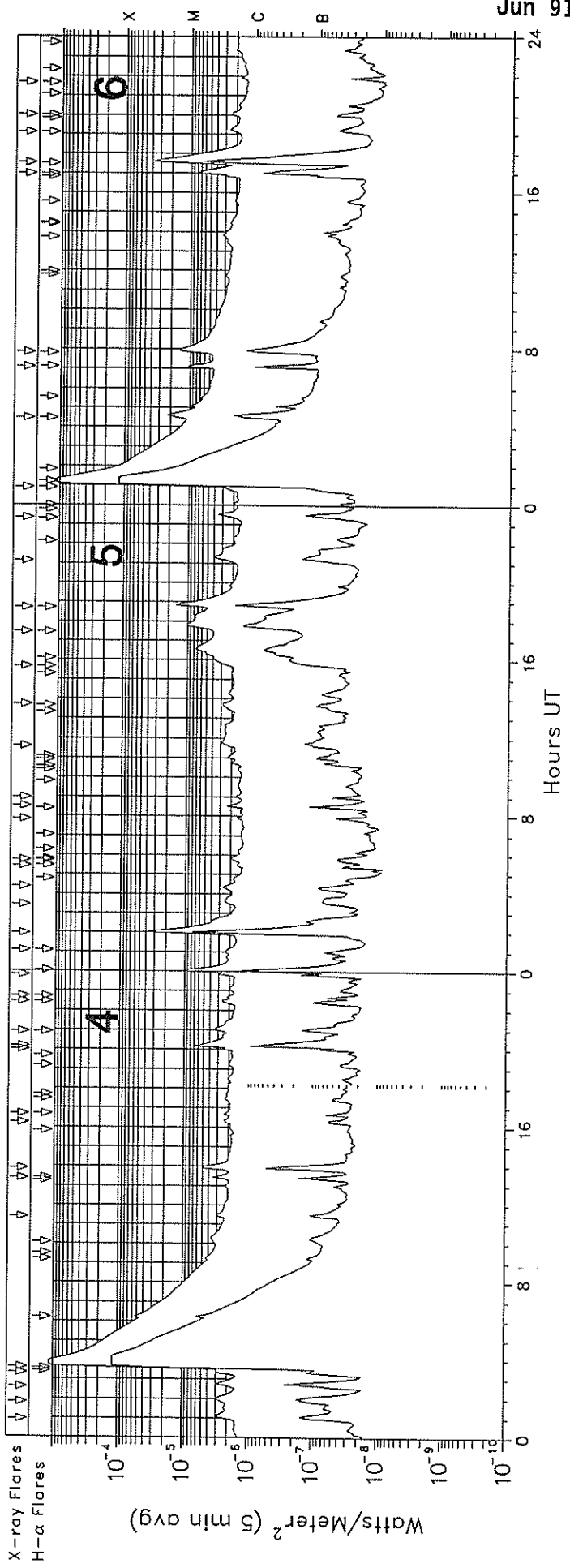
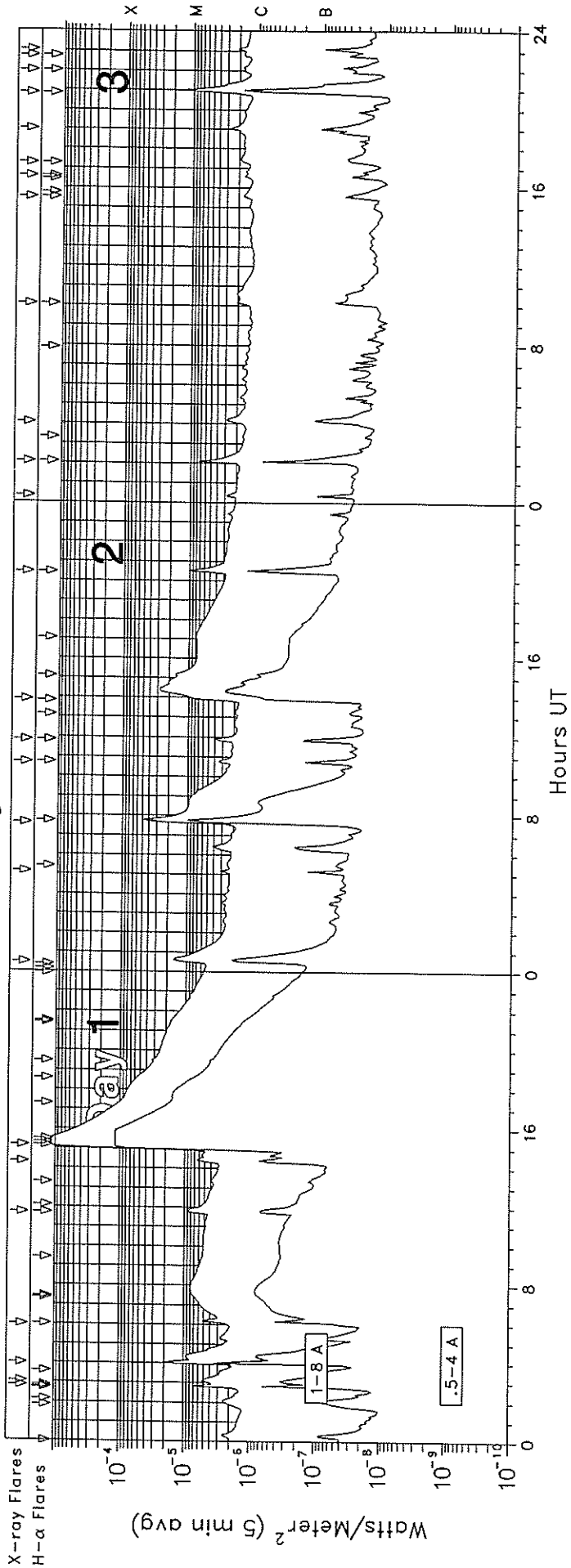
Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

GOES-7 X-RAY DETECTOR

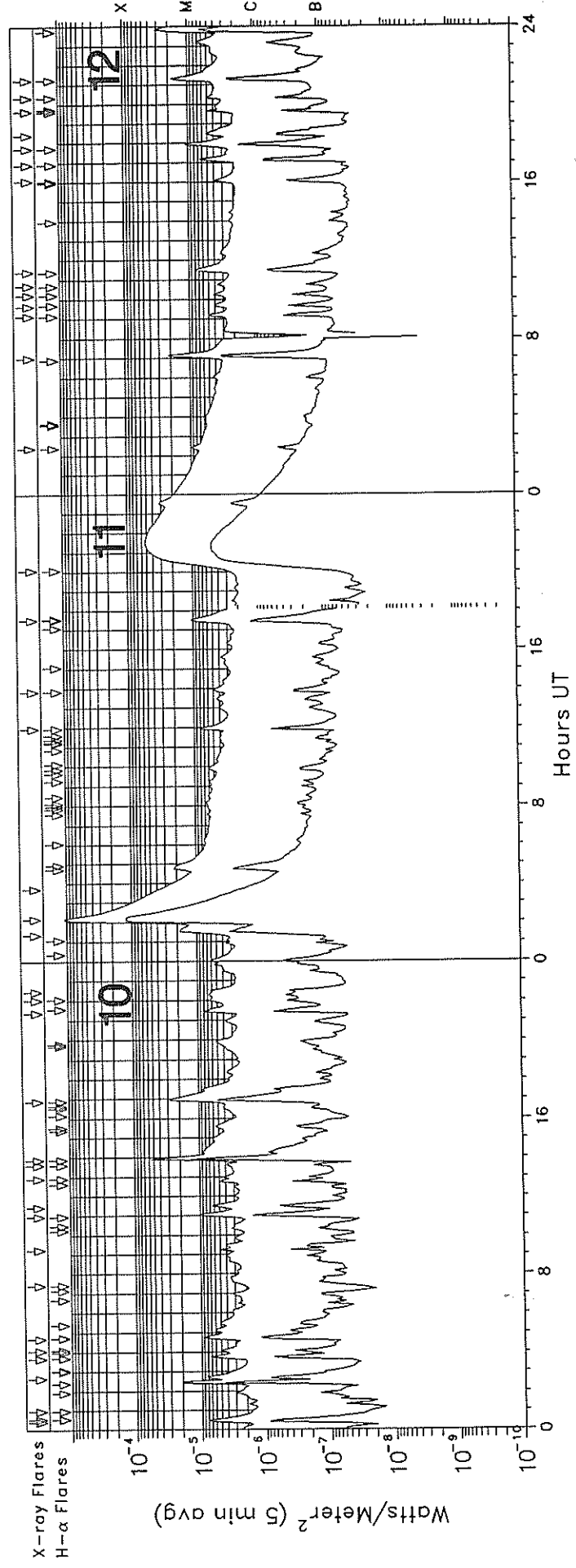
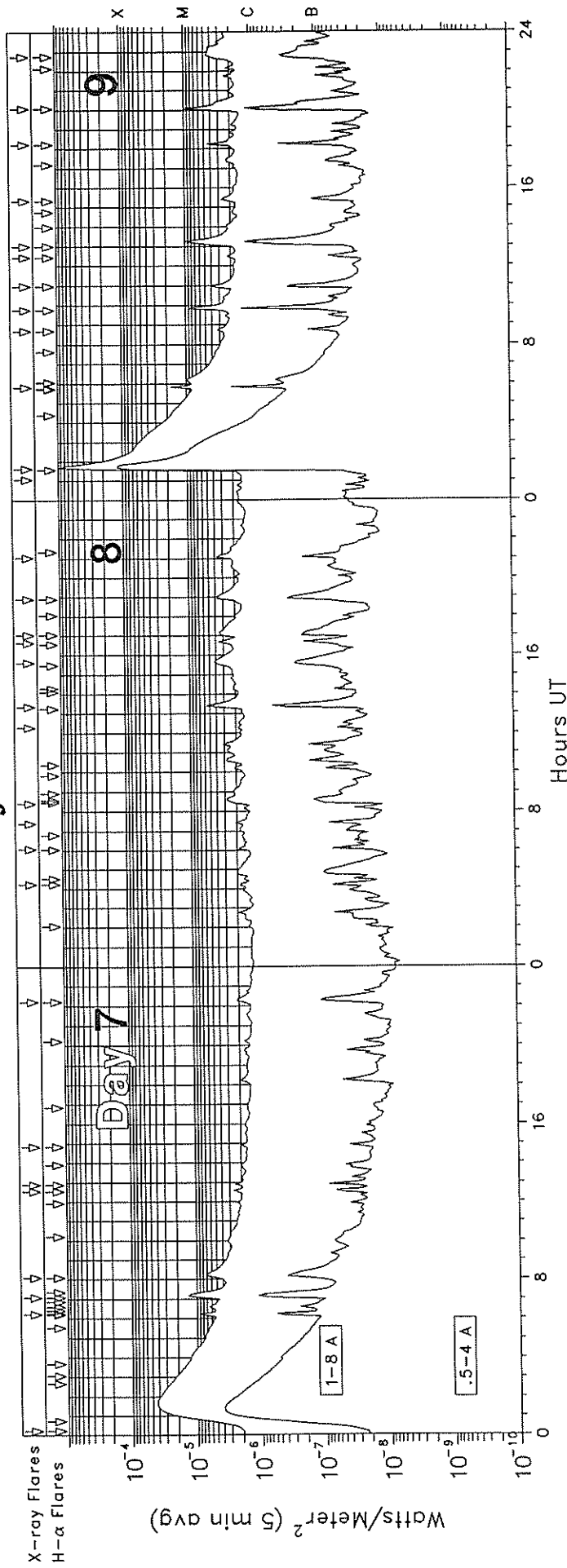
June 1991

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Jun 91



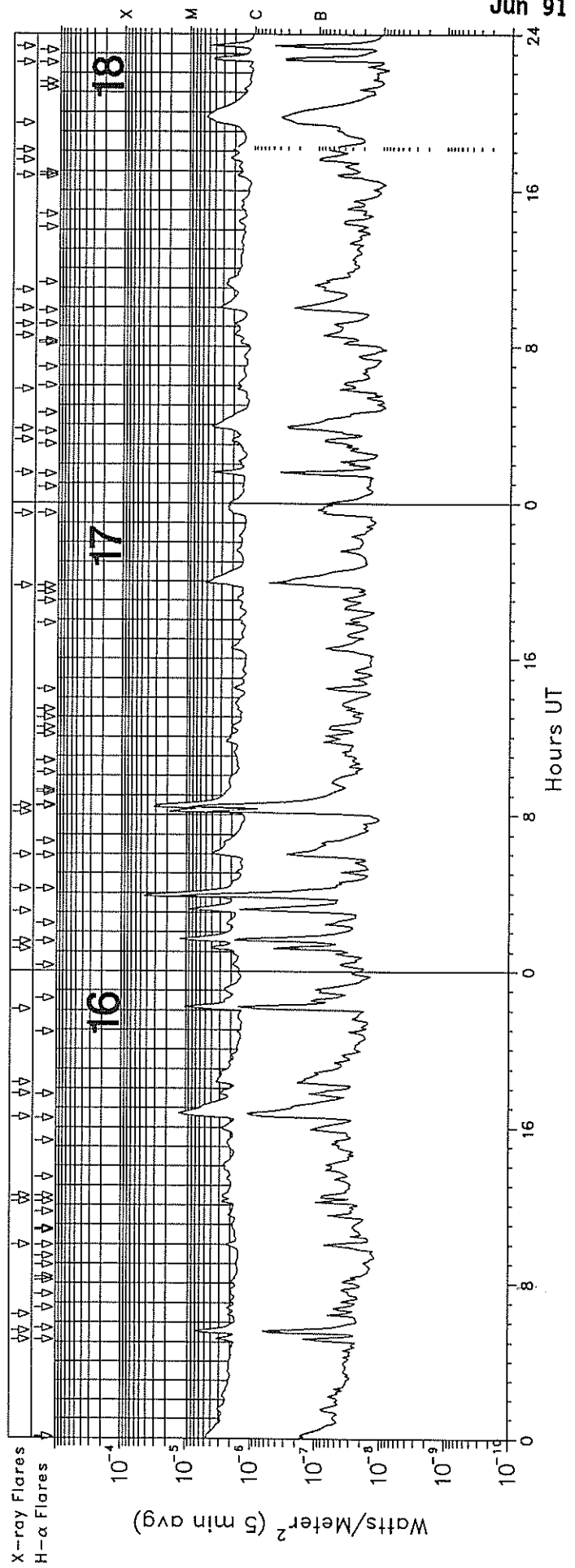
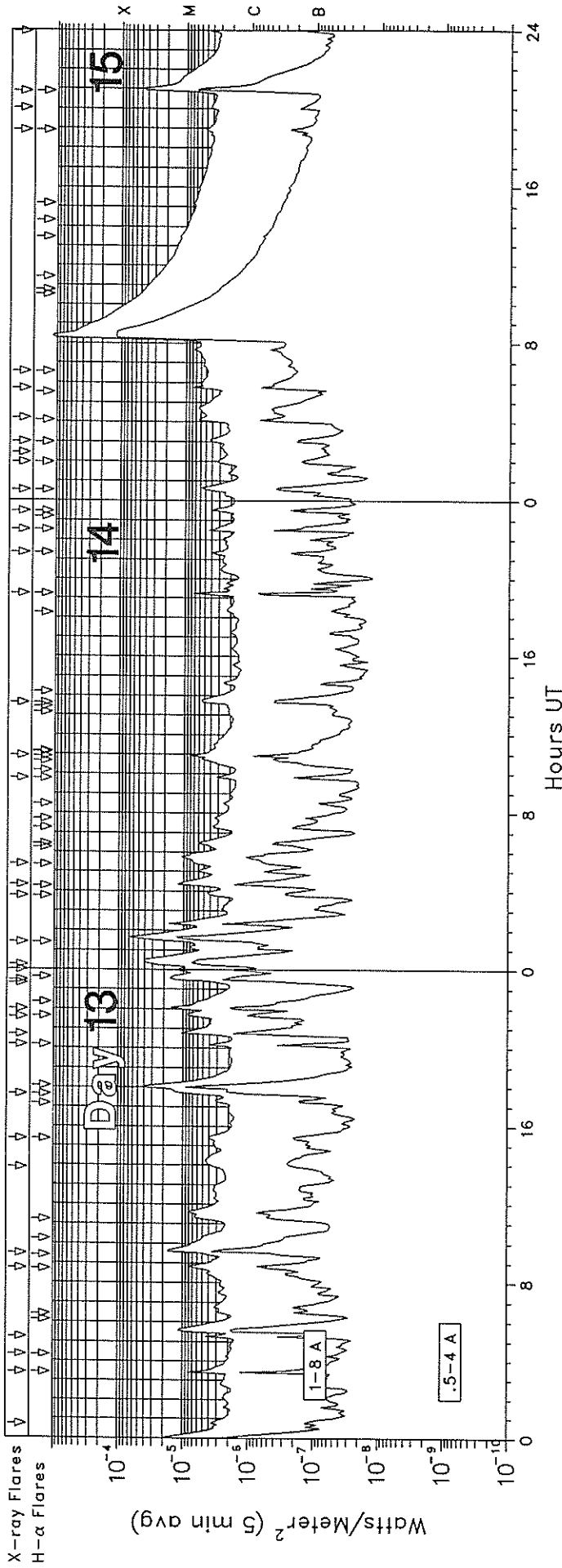
GOES-7 X-RAY DETECTOR

June 1991



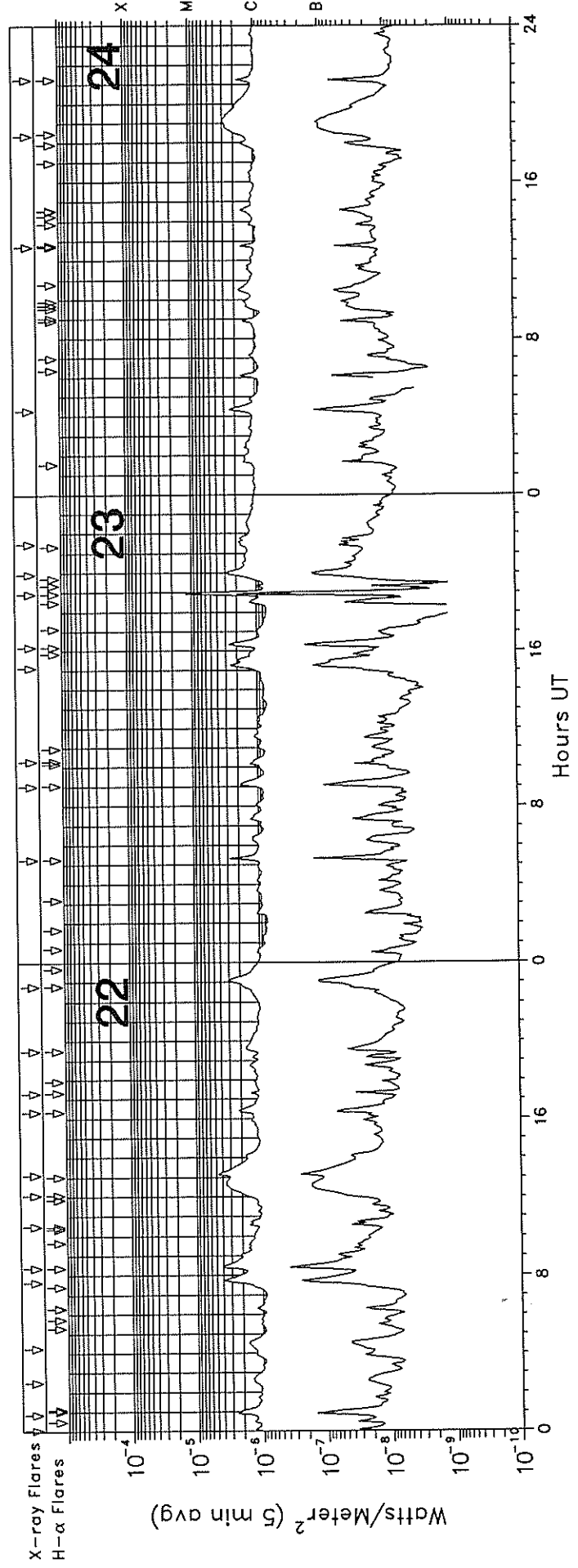
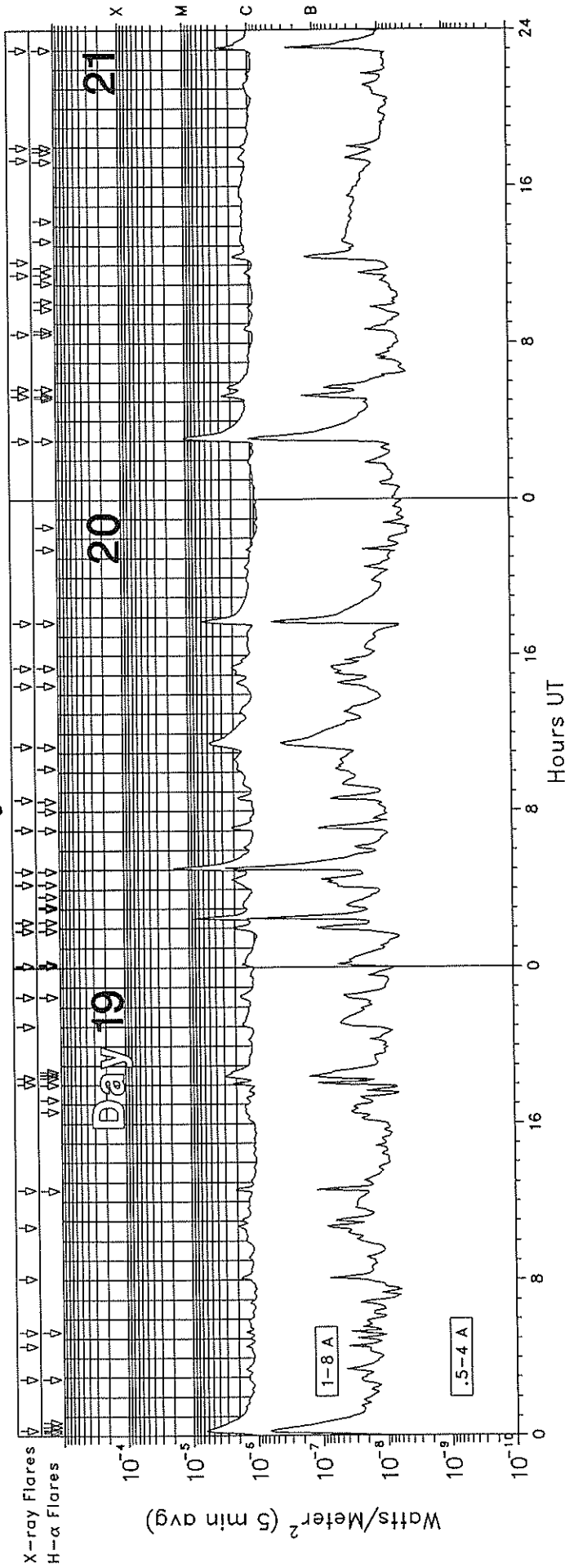
GOES-7 X-RAY DETECTOR

June 1991



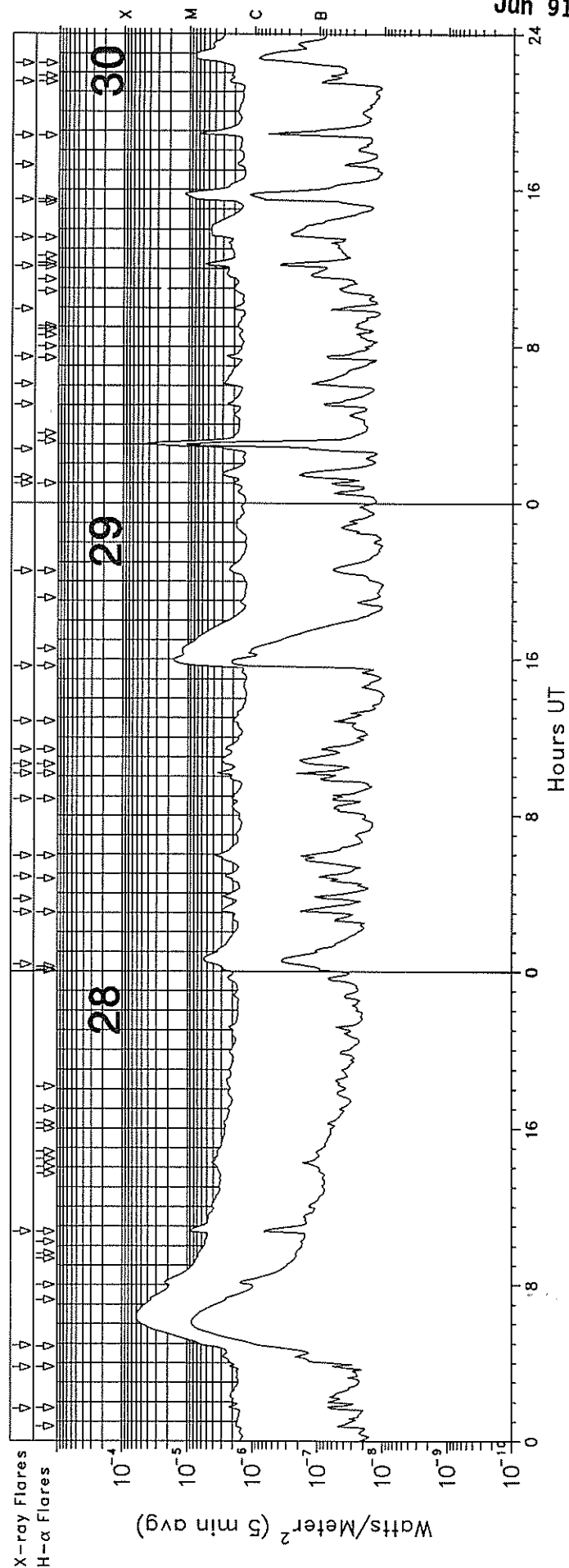
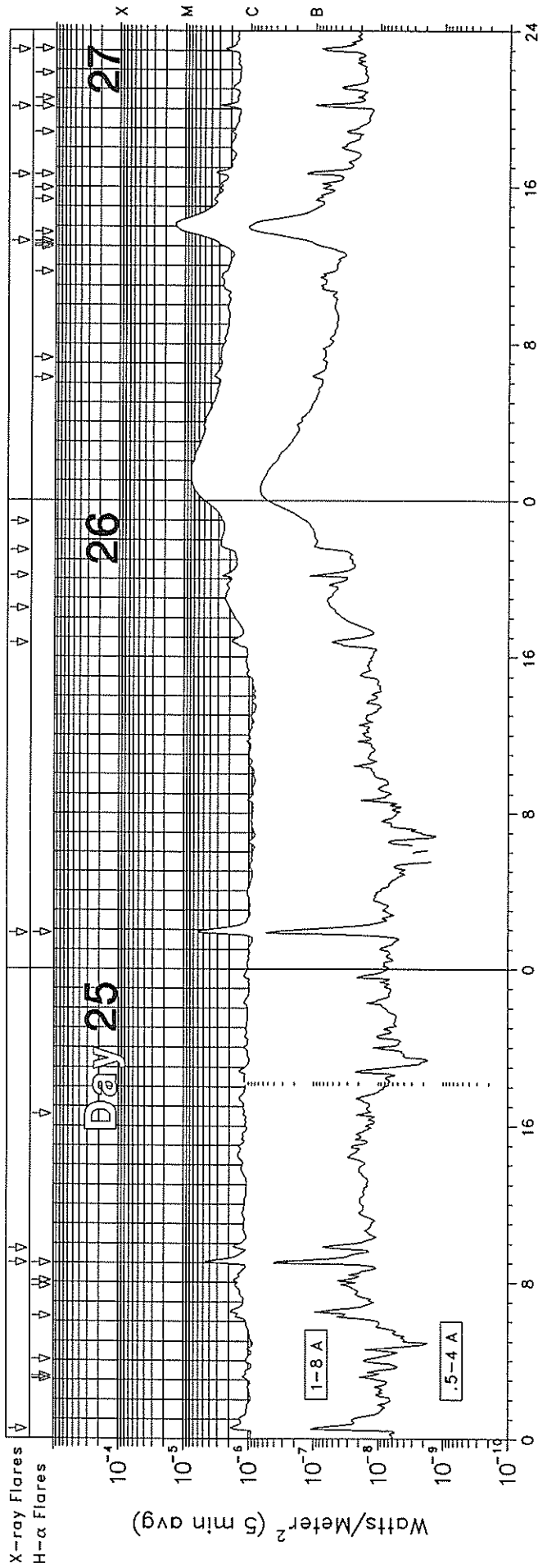
GOES-7 X-RAY DETECTOR

June 1991



GOES-7 X-RAY DETECTOR

June 1991



GOES SOLAR X-RAY FLARES
Preliminary Listing

June 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
01	0251	0302U	0302	N09	E11	1B	M1.0	6654
01	0304E	0307	0315D	S08	E04	1N	C5.2	6652
01	0400E	0402	0446D	N10	W01	1B	M2.3	6654
01	0601E	0612	0618D	S16	W19	SN	C5.9	6648
01	1144E	1146	1221D	S15	W23	SF	M1.0	6648
01	1420	1428	1452				C6.5	
01	1509E	1529	1614	N25	E90	1F	X12.0	6659
02	0029	0041	0119				M1.6	
02	0508	0512	0514				C3.4	
02	0737	0746	0937				M5.2	
02	1044	1048	1054				C3.5	
02	1152E	1155	1201D	S08	W18	SF	C4.4	6652
02	1353E	1414	1623	S07	W22	2N	M2.8	6652
02	2027E	2033	2051D	S08	W22	1N	M1.0	6652
03	0020	0024	0027				C3.3	
03	0204E	0207	0229D	N27	E78	1F	C9.9	6659
03	0403	0413	0422				C3.0	
03	1005	1011	1051				C2.1	
03	1531E	1534	1544D	S15	W48	SF	C1.7	6648
03	1635E	1636	1641D	S12	W29	SF	C1.7	6652
03	1715	1715U	1747D	N11	E46	SF	C1.9	6660
03	1900	1903	1906				C3.4	
03	2051E	2055	2123D	S13	W52	SF	M1.5	6648
03	2200E	2203	2234D	N10	E52	SF	C1.8	6663
03	2245E	2250	2303D	S08	W38	SF	C1.8	6652
03	2303	2306	2310				C2.3	
04	0057	0105	0119				C3.0	
04	0150	0201	0207				C3.2	
04	0237	0248	0254				C3.1	
04	0320		0330	S11	W43	SN	C3.0	
04	0337		0730D	N30	E70	3B	X12.0	6659
04	1124	1130	1133				C3.4	
04	1324E	1326	1328D	S09	W45	SF	C3.6	6652
04	1354E	1355	1400D	S08	W45	SF	C5.6	6652
04	1614	1620	1625				C2.4	
04	1642E	1644	1700D	N10	E43	SF	C2.6	6663
04	2000	2005	2008				C2.8	
04	2010	2014	2019				M1.0	6659
04	2055E	2101	2126D	N10	E40	SF	C3.4	6667
04	2227E	2228	2244D	N12	E40	SN	C3.3	6667
04	2242E	2245	2249D	S19	E70	SF	C2.5	6666
04	2348	0004	0014				M1.4	6652
05	0104E	0105	0121D	N12	E38	SF	C2.6	6667
05	0157E	0200	0205	S17	E70	1N	M4.8	6666
05	0325	0339	0343				C2.8	
05	0421	0425U	0437	S14	W65	SF	C2.7	6648
05	0526	0529	0533				C1.9	
05	0544E	0550	0610D	N11	E23	SF	C2.0	6660
05	0750	0756	0758				C1.8	
05	0830E	0830	0852D	N30	E57	SF	C2.4	6659
05	0858	0902	0904				C1.9	
05	1136	1148	1211				C2.9	
05	1342E	1342	1347D	S09	W58	SF	C3.1	6652
05	1540E	1559	1658D	N28	E47	SF	C7.7	6659
05	1727E	1743	1834	N32	E50	SF	M1.0	6659
05	1843E	1922	2002D	S18	E62	1B	M1.5	6666
05	2107	2118	2129				C4.2	
05	2321	2331	2337				C3.7	
06	0054E	0112	0215	N33	E44	4B	X12.0	6659
06	0428E	0506	0552D	S16	E55	1F	M1.1	6666

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
06	0705E	0706	0726D	S11	W68	1F	M1.2	6652
06	0750	0805	0907D	N12	E21	1F	M1.4	6667
06	1657E	1700	1718D	S09	W74	1N	C9.1	6652
06	1731	1745U	1837D	S16	E50	1B	M3.9	6666
06	1906E	1908	1947D	N14	E25	SF	C2.6	6664
06	2001E	2004	2025D	N13	E18	SF	C2.5	6667
06	2140E	2143	2157D	S17	E50	SF	C1.9	6666
07	0013E	0051	0452D	N27	E24	3B	M4.2	6659
07	0613E	0613	0642D	N08	W09	1B	M1.3	6660
07	0705E	0708	0759D	S20	E41	1B	M1.4	6666
07	0806E	0815	0836D	S19	E41	SF	C7.2	6666
07	1233E	1234	1247D	N33	E30	SF	C2.8	6659
07	1254E	1300	1309D	N31	E30	SF	C2.6	6659
07	1451E	1456	1502D	N08	W14	SF	C2.0	6660
07	2212E	2217	2222D	N35	E29	SF	C2.2	6659
08	0413E	0414	0416D	N32	E16	SF	C2.6	6659
08	0604E	0605	0608D	N30	E14	SN	C2.0	6659
08	0724	0728	0731				C2.3	
08	0825	0840	0850				C3.1	
08	1217	1220	1222				C2.2	
08	1321E	1324	1349D	N34	E14	SF	C5.7	6659
08	1536E	1536	1545D	N36	E13	SF	C4.1	6659
08	1637E	1640	1650D	N36	E15	SF	C3.6	6659
08	1702E	1702	1729D	N32	E09	SF	C3.7	6659
08	1854E	1857	1919D	N34	E10	SF	C3.8	6659
08	2103	2108	2115				C3.8	
09	0103	0106	0108				C2.6	
09	0137	0140U	0424D	N34	E04	3B	X10.0	6659
09	0548E	0550	0632D	N27	W04	1N	M1.9	6659
09	0841E	0847	0854D	N31	W00	SF	C3.8	6659
09	0945E	0953	1020	N28	W04	SF	M1.2	6659
09	1058E	1058	1106D	N30	W10	SF	C4.9	6659
09	1227E	1232	1242D	N28	E03	SF	C2.3	6659
09	1300E	1318	1343D	N27	W06	1N	M1.2	6659
09	1519E	1526	1545D	S14	E01	SF	C2.7	6666
09	1814E	1816	1824D	N32	W06	SF	C4.7	6659
09	2004	2004U	2018D	N31	W07	SF	M1.3	6659
09	2245E	2249	2253D	N36	W04	SF	C4.4	6659
10	0032E	0034	0043D	S13	W04	SF	C9.6	6666
10	0058E	0058	0124	S13	W03	SF	C2.1	6666
10	0024E	0228	0235D	N31	W10	1N	M4.5	6659
10	0240	0245	0251				C9.6	
10	0340	0348	0354				C7.5	
10	0405E		0414D	N13	W27	SF	C5.2	
10	0441	0445	0500				M1.1	
10	0726E	0927	0949D	N31	W11	SN	C4.5	6659
10	0914	0917	0920				C5.7	
10	1057E	1103	1147D	N28	W20	1N	M1.2	6659
10	1126	1131	1139				C7.1	
10	1255E	1302	1313D	S14	W10	SF	C5.2	6666
10	1336E	1338	1349D	S13	W11	SF	C4.9	6666
10	1353E	1356	1527D	N29	W21	1N	M6.4	6659
10	1653E	1654	1801D	N35	W11	SN	M3.2	6659
10	2123	2128	2139				C8.7	
10	2201	2205	2208				C7.6	
10	2227	2230	2234				C7.3	
11	0121	0134	0154				M1.9	
11	0209	0229U	0320	N31	W17	3B	X12.0	6659
11	0341	0341U	0553D	N29	W11	2N	M2.2	6659
11	1157E	1157	1204D	S14	W22	SF	M1.1	6666

GOES SOLAR X-RAY FLARES
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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
11	1351	1356	1406				C5.1	
11	1730E	1734U	1738	N32	W29	SF	M1.1	6659
11	2005	2017U	2325	N26	W42	1B	M5.3	6659
12	0223	0223U	0251	N20	W66	SF	C9.9	6658
12	0700	0712	0728				M2.4	
12	0909E	0917	0925D	N27	W39	SF	C5.2	6659
12	0939	0944	0952				C4.4	
12	1013E	1015U	1032	N27	W34	SF	C4.3	6659
12	1042	1047	1054				C3.9	
12	1123	1132	1142				C8.2	
12	1603E	1604	1643D	N29	W42	SF	C4.0	6659
12	1653E	1707	1738D	N29	W43	SF	C7.7	6659
12	1743E	1759	1859D	N27	W41	2B	M1.4	6659
12	1825	1830	1840				C5.5	
12	1938E	1943	1953D	S13	W44	SN	C5.3	6666
12	2020E	2020	2043D	N29	W45	SF	C5.3	6659
12	2114E	2117	2149D	N28	W46	SN	M1.9	6659
13	0043	0046	0050				C3.9	
13	0325E	0326	0336D	N30	W48	SF	C9.6	6659
13	0420E	0540	0656D	N28	W50	1F	M1.5	6659
13	0514	0518	0520				C7.1	
13	0844E	0853	0859D	N29	W54	SF	C8.5	6659
13	0929E	0939	1016D	N28	W52	SF	M1.8	6659
13	1352	1419	1437				C4.4	
13	1521E	1523	1529D	S02	W70	SF	C4.3	6674
13	1740E	1803	1826D	N31	W55	1F	M5.4	6659
13	2010E	2010	2031	N30	W53	SF	C4.4	6659
13	2042	2047	2105				M1.1	
13	2135	2146	2155				C8.9	
13	2159E	2207	2224D	N31	W60	2F	M2.2	6659
13	2318	2322	2326				C3.0	
13	2328E	0001	0055D	N30	W61	1F	M1.6	6659
14	0000	0003	0012				M1.5	
14	0014E	0019	0043D	N31	W56	2N	M4.1	6659
14	0124E	0137	0245D	N30	W64	2N	M7.3	6659
14	0345E	0349	0357D	N31	W58	1F	C4.7	6659
14	0419E	0422	0433D	N31	W58	1F	M1.3	6659
14	0523E	0524	0537D	N31	W69	1N	M1.1	6659
14	0947	0951	0958				C3.5	
14	1056E	1057	1103D	N28	W66	SF	C9.7	6659
14	1338E	1343	1355D	N30	W63	SF	C5.9	6659
14	1914E	1914	1919D	N28	W65	SF	M1.6	6659
14	2120E	2121	2126D	N31	W71	SF	C4.1	6659
14	2231E	2235	2238D	N32	W73	SF	C5.7	6659
14	2327E	2337	2346D	N32	W74	SF	C4.0	6659
15	0031E	0034	0100D	N33	W69	SF	C6.0	6659
15	0157E	0158	0203D	N30	W82	SF	C3.3	6659
15	0226E		0255D	S12	W34	SF	C2.9	
15	0300	0303U	0310	S12	W36	1F	C4.5	6675
15	0411	0411U	0535	N31	W63	1N	C6.6	6659
15	0542E	0543	0545D	N31	W69	SB	C9.7	6659
15	0633E	0831	1117D	N33	W69	3B	X12.0	6659
15	1853E	1853	1901D	N33	W76	SF	C5.5	6659
15	2001	2004	2008				C5.0	
15	2052E	2057	2139D	S14	W80	2B	M5.5	6666
15	2357	0002	0020				C4.9	6675
16	0508E	0509	0553D	N09	E68	SF	C3.6	6681
16	0535E	0535	0609D	N07	E66	1F	C7.6	6681
16	0625	0628	0632				C3.0	
16	0958E	0958	1006D	N08	E65	SF	C2.6	6681

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
16	1211E	1211	1217D	S18	W90	SF	C3.0	6666
16	1228E	1228	1236D	N07	E63	SF	C3.5	6681
16	1632	1648	1714				M1.3	
16	1744E	1746	1755D	N13	W58	SF	C3.3	6671
16	1817	1824	1858				C3.4	
16	2203	2213	2220				M1.1	
17	0109	0114	0119				C5.1	
17	0132E	0148	0205D	S13	W63	SF	M1.4	6675
17	0303	0313	0319				C9.8	
17	0412E	0412	0420	N33	W90	SF	M5.2	6659
17	0556E	0557	0600D	S15	W90	SF	C4.1	6666
17	0809E	0809	0817D	S14	E04	SF	M2.2	6680
17	0827E	0828	0839D	N35	W89	SF	M4.0	6659
17	1945E	1947	1956D	N12	W72	SN	C5.5	6671
17	2327	2352	0013				C2.7	
18	0132	0137	0140				C5.0	
18	0314E	0315	0322D	N11	W80	SN	C2.4	
18	0347	0357	0411				C4.5	
18	0548	0552	0557				C1.8	
18	0832E	0845	0911D	N11	W78	1F	C2.0	6671
18	0907	0912	0916				C2.0	
18	0957E	1000	1010D	N10	W85	SF	C3.3	6671
18	1053	1114	1122				C2.9	
18	1646	1649	1655				C2.0	
18	1733	1742	1758				C2.4	
18	1803	1805	1809				C2.3	
18	1925	1947	2009				C5.4	
18	2232E	2241	2316D	N08	E30	SN	C4.7	6681
18	2321	2328	2332				C5.3	
19	0016E	0018	0041D	S13	W10	SF	C6.7	6682
19	0254E	0300	0323D	S16	E66	SF	C1.6	6686
19	0436	0438	0441				C1.8	
19	0518E	0519	0527D	S17	E64	SN	C1.7	6686
19	0804	0808	0812				C1.9	
19	1042	1046	1051				C2.1	
19	1236E	1239	1249D	N09	E22	SF	C2.9	6681
19	1801E	1805	1819D	N08	E19	SF	C2.5	6681
19	1823E	1825	1857D	S14	W35	SF	C3.1	6680
19	2102	2112	2117				C1.6	
19	2231E	2236	2255D	S27	E47	SF	C1.8	6688
20	0007E	0010	0043D	S14	W37	SF	C1.6	6677
20	0152E	0239	0259D	N16	E24	SF	C2.2	6687
20	0220E	0236	0248D	S26	E47	SF	M1.2	6688
20	0415E	0417	0515D	S12	W25	SF	C2.7	6682
20	0456E	0504	0647D	S15	W40	1B	M2.0	6680
20	0704E	0710	0741D	S26	E43	SF	C2.6	6688
20	0835E	0840	0855D	S10	W30	SF	C1.7	6682
20	1121E	1130	1145D	S16	W45	SF	C4.7	6680
20	1428E	1437	1448D	S11	W48	SF	C1.8	6680
20	1522E	1528	1535D	S10	W35	SF	C2.1	6682
20	1741E	1743	1802D	S15	W48	SF	C6.1	6680
21	0259E	0307	0402D	N13	E08	2B	M1.1	6687
21	0515E	0516	0521D	S04	E84	SF	C2.8	
21	0538E	0541	0611D	S27	E29	SF	C2.2	6688
21	0828E	0834	0906D	S13	W56	SF	C1.3	6680
21	1130E	1135	1149D	S12	W44	SF	C1.2	6682
21	1211	1228	1238				C1.9	
21	1720	1728	1733				C1.4	
21	1759E	1801	1813D	S10	W47	SF	C1.4	6682
21	2300E	2307	2344D	S09	W50	SN	C3.9	6682

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GOES SOLAR X-RAY FLARES
Preliminary Listing

June 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
22	0003	0007	0012				C1.6	
22	0052E	0055	0122D	S10	W51	SF	C2.6	6682
22	0230	0242	0251				C1.4	
22	0416	0435	0451				C1.7	
22	0740	0748	0756				C4.1	
22	0824E	0840	0852D	S11	W56	SF	C4.3	6682
22	1031E	1038	1044D	S16	W75	SF	C1.6	6680
22	1205E	1236	1423D	S32	E18	1F	C3.5	6688
22	1307E	1311	1317D	S15	W74	SF	C4.8	6680
22	1621E	1623	1646D	S29	W38	SF	C2.4	6678
22	1718	1722	1724				C1.6	
22	1930E	1936	1959D	N08	W19	SF	C1.7	6681
22	2247E	2307	2339D	S30	W41	SF	C3.1	6678
23	0516E	0523	0546D	S28	W34	1F	C3.2	6689
23	0902	0908	0920				C1.9	
23	1018E	1022	1029D	N11	W22	SF	C1.3	6687
23	1508	1518	1524				C3.0	
23	1611E	1621	1643D	S10	W71	SF	C2.8	6682
23	1856E	1857	1906D	S08	W81	SF	M1.7	6682
23	1955E	2004	2019	S30	W54	SF	C3.0	6678
23	2128E	2128	2159D	S11	W73	SF	C2.0	6682
24	0416	0424	0431				C2.5	
24	1243E	1245	1249D	S13	W73	SF	C1.6	6682
24	1821	1906	1938				C3.1	
24	2115E	2116	2122D	N05	E51	SF	C1.8	6694
25	0029	0035	0044				C2.1	
25	0901E	0908	0928D	S09	E42	SF	C5.1	6692
25	0944	0954	1000				C1.8	
26	0149E	0154	0157D	N02	E58	SF	C6.7	6695
26	1642	1648	1656				C1.9	
26	1829	1900	1928				C2.4	
26	2009	2012	2016				C2.9	
26	2129	2148	2251				C2.8	
26	2255	0133	0319				C8.0	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
27	1314E	1418	1509D	S07	E11	2N	M1.4	6692
27	1637	1645	1650				C3.7	
27	2006E	2008	2024D	N22	W43	SF	C3.3	6685
27	2301E	2303	2311D	S06	E08	SF	C2.8	
28	0140E	0142	0157D	N22	W48	1F	C2.5	6685
28	0347E	0348	0357D	N04	E32	1N	C2.3	6695
28	0454	0626	1028				M6.0	6703
28	1045E	1047	1110D	S06	E06	1N	M1.1	6693
29	0021E	0044	0105D	N03	W06	SF	C5.7	6694
29	0302	0307	0318				C3.2	
29	0342	0350	0356				C3.0	
29	0451E	0453	0507D	S06	W11	SF	C2.9	6693
29	0555E	0557	0610D	S06	W08	SN	C4.2	6693
29	0851E	0914	0916D	N07	W08	SF	C2.3	6694
29	1008E	1011	1025D	S06	W07	SF	C3.9	6693
29	1038E	1040	1053D	S06	W07	SF	C3.0	6693
29	1123E	1128	1154D	S06	W09	SF	C2.7	6693
29	1250E	1251	1303D	S08	W13	SF	C2.2	6693
29	1539E	1543	1549D	N28	E90	SF	M1.6	6703
29	2032E	2034	2054D	S07	W31	SF	C2.3	6697
30	0058E	0059	0114D	S06	W19	SF	C2.2	6693
30	0116	0129	0140				C3.1	
30	0243E	0246	0320D	S06	W19	1N	M5.0	6693
30	0501	0505	0510				C2.8	
30	0604E	0606	0621D	S06	W21	1F	C2.9	6693
30	0728E	0729	0734D	N12	E46	SF	C3.2	6699
30	0955	0959	1010				C2.1	
30	1207E	1213	1227D	N06	W24	SF	C6.3	6694
30	1334E	1339	1433D	N11	E43	1N	C4.7	6699
30	1529E	1534	1637D	N13	E39	1N	M1.1	6699
30	1715	1718	1725				C1.9	
30	1846E	1854	1932D	N11	E35	1B	C7.2	6699
30	2131E	2137	2147D	N29	E83	SF	C2.5	6703
30	2229E	2242	2311D	N27	E85	SF	C8.4	6703

Preliminary GOES Satellite Data
Daily Average X-ray Background
Jul 1990 - Jun 1991

Day	1990						1991					
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1	C1.2	C1.3	B8.7	B5.1	B3.8	C1.0	B7.4	C2.7	C1.3	C2.3	B5.8	C3.5
2	C1.4	C1.2	B8.6	B7.9	B3.7	B7.6	B7.6	C3.9	C2.3	C1.4	B4.7	C1.9
3	C1.2	B7.8	B6.6	C1.5	B4.0	B7.6	B7.4	C3.2	C2.9	B9.2	B6.3	C1.1
4	C1.1	B7.1	B7.3	C1.1	B5.2	B8.6	B7.8	C3.2	C2.9	B8.4	B7.2	C1.6
5	C1.1	B6.9	C1.0	B8.6	B6.7	C1.1	B9.5	C2.0	C2.1	B8.2	B9.1	C1.5
6	C1.0	B7.0	B6.0	B6.9	B9.4	C1.3	C1.1	C2.1	C1.8	C1.0	C1.4	C1.7
7	C1.1	B7.0	B6.6	B9.0	C1.1	C1.2	C1.5	C1.9	C2.2	B9.4	C1.4	C1.6
8	C1.1	B9.6	B5.9	B8.9	B9.8	C1.2	C2.3	C2.0	C1.8	B8.8	C1.5	C1.3
9	C1.1	B7.8	B6.5	B9.0	B8.6	C1.5	C2.0	B8.5	C1.9	C1.3	C1.2	C1.6
10	B9.7	B7.9	B6.9	B6.5	B7.6	C1.8	C1.9	B7.1	C1.4	C2.0	C1.2	C2.3
11	B7.9	B7.2	B8.7	B6.9	B9.6	C2.1	C1.3	B7.3	C1.4	C2.0	C1.5	C2.9
12	B6.0	B7.9	B7.5	B6.4	C1.1	C2.1	B9.4	C1.0	C1.6	C2.3	C2.0	C1.9
13	B7.8	B8.2	B7.6	B8.3	C1.0	C1.9	B7.3	C1.0	C1.6	C2.0	C1.2	C1.8
14	B4.6	B6.3	C1.0	B8.6	C1.1	C1.3	B6.2	C1.1	C1.8	C2.4	C1.4	C1.5
15	B4.3	B6.6	B7.9	C1.4	C1.1	C1.0	B6.7	C1.2	C1.8	C2.9	C1.0	C2.6
16	B4.6	B9.4	B7.4	C1.2	C1.2	B9.1	B7.9	---	C2.3	C3.1	C1.0	C1.6
17	B6.2	C1.2	B9.3	C1.0	C1.5	B7.6	B9.2	C2.3	C2.7	C1.8	C1.0	C1.3
18	B9.5	C1.7	B8.5	C1.2	C1.2	C1.3	C1.2	C2.7	C3.3	C1.5	C1.0	C1.2
19	B4.7	C1.6	B9.3	C1.6	C1.0	C1.6	C1.6	C2.4	C2.5	C1.3	B7.2	C1.0
20	B4.7	C1.9	B8.1	C1.4	B7.5	C1.5	C1.6	C2.3	C2.1	C2.1	B6.6	B9.3
21	B5.8	C2.0	B9.0	C1.4	B8.3	C1.3	C1.5	C2.0	C2.0	C1.1	B9.5	B8.9
22	B6.2	C2.0	B7.9	B9.5	*	C1.3	C2.2	C1.6	C1.9	C2.0	B8.5	C1.0
23	B7.2	C2.2	B9.5	B6.7	B8.0	C1.3	C1.6	C1.5	C3.3	C1.0	B7.9	B7.6
24	B7.3	C2.1	B8.9	B5.6	B8.8	C1.7	C1.9	C1.5	C2.1	B6.3	B7.0	B9.4
25	C1.0	C1.5	B6.9	B6.7	C1.0	C1.2	C2.2	C1.5	C1.7	B6.2	B9.9	C1.0
26	B9.5	C1.8	B4.8	B5.0	B9.8	C1.1	C2.0	C1.2	C1.2	B5.7	B9.8	B8.3
27	B7.0	C1.7	B4.0	B6.4	C1.1	B9.2	C2.4	C1.1	C1.2	B6.2	C1.0	C1.9
28	B7.3	C2.2	B4.1	B4.5	C1.4	B7.9	C2.6	C1.1	C1.2	B8.0	C1.5	C1.6
29	B6.6	C1.5	B4.5	B7.3	C1.4	B8.4	C2.2		C1.6	B6.9	C1.5	C1.3
30	C1.0	C1.5	B4.8	B6.5	C1.1	B8.6	C2.8		C1.9	B5.9	---	C1.5
31	B9.4	C1.0		B4.4		B7.8	C2.9		C1.8		C1.4	

MASS EJECTIONS FROM THE SUN

JUNE 1991

Site	Mo	Day	— Observed UT —			Location		Freq or Wavelength	Kind of Event
			Start	Max	End	RA*	R/Ro		
POTS	Jun	01	1141.8		1214.7			800- 40 MHz	IV Pulsations
POTS	Jun	01	1502.9		1504.8			400-200 MHz	II?
SGMR	Jun	01	1505.0		1511.0			Meter	II
SVTO	Jun	01	1504.0		1512.0			Meter	II
SVTO	Jun	01	1504.0		1720.0			Meter	IV
SGMR	Jun	01	1511.0		1945.0			Meter	IV
POTS	Jun	02	1412 U		1757 U			800-100 MHz	IV,II? Continuum
SVTO	Jun	02	1414.0		1750.0			Meter	IV
SGMR	Jun	02	1414.0		2025.0			Meter	IV
PALE	Jun	02	1734.0		1856.0			Meter	IV
LEAR	Jun	04	0340.0		0748.0			Meter	IV
PALE	Jun	04	0344.0		0453.0			Meter	IV
SVTO	Jun	04	0344.0		0958.0			Meter	IV
ABST	Jun	04	0526 E	0650 U	0811 D	052	1.00	H-alpha	SP
KHAR	Jun	04	0840 E	0845 U	0910 D	053	0.97	H-alpha	S
KHAR	Jun	04	0925 E		0944 D	057	0.96	H-alpha	S
KHAR	Jun	04	0928 E		0942 D	076	0.64	H-alpha	S
KHAR	Jun	05	1107 E		1117 D	048	0.82	H-alpha	S
VORO	Jun	06	0110	0114 U	0118	048	0.8	H-alpha	DSD
LEAR	Jun	06	0110.0		0120.0			Meter	II
VORO	Jun	06	0110	0114 U	0123	048	0.8	H-alpha	DSD
PALE	Jun	06	0113.0		0454.0			Meter	IV
LEAR	Jun	06	0121.0		0928.0			Meter	IV
SVTO	Jun	06	0346.0		1621.0			Meter	IV
KHAR	Jun	06	1147 E		1213 D	281-288	0.90-0.97	H-alpha	Q
KHAR	Jun	06	1158 E		1204 D	003	0.33	H-alpha	S
PALE	Jun	07	0045.0		0156.0			Meter	IV
LEAR	Jun	07	0049.0		0314.0			Meter	IV
LEAR	Jun	07	0616.0		0623.0			Meter	II
SVTO	Jun	07	0616.0		0623.0			Meter	II
POTS	Jun	07	0616.5		0623 U			90- 40 MHz	II
WEIS	Jun	07	0616.7		0623.6			82- 30 MHz	II Harmonic
KHAR	Jun	07	1205 E		1222 D	250	0.98	H-alpha	S
LEAR	Jun	09	0140.0		0148.0			Meter	II
PALE	Jun	09	0140.0		0149.0			Meter	II
PALE	Jun	09	0149.0		0455.0			Meter	IV
LEAR	Jun	09	0149.0		0928.0			Meter	IV
SVTO	Jun	09	0340.0		1754.0			Meter	IV
SGMR	Jun	09	1021.0		2048.0			Meter	IV
ONDR	Jun	10	0647.3		1032.0			Decimeter; meter	IV Pulsations
ONDR	Jun	10	1301.8		1320.5			Decimeter; meter	IV
POTS	Jun	10	1356.6U		1411.4U			400- 40 MHz	II Harmonic
SGMR	Jun	10	1401.0		1407.0			Meter	II
SVTO	Jun	10	1401.0		1407.0			Meter	II
WEIS	Jun	10	1401.2		1406			200- 50 MHz	II Harmonic
LEAR	Jun	11	0205.0		0205.0D			Meter	II
PALE	Jun	11	0205.0		0210.0			Meter	II
PALE	Jun	11	0210.0		0456.0			Meter	IV
SVTO	Jun	11	0345.0		1755.0			Meter	IV
ONDR	Jun	11	0556.3		1207.0			Decimeter; meter	IV Pulsations
KHAR	Jun	11	1143 E		1150 D	034	0.27	H-alpha	S
SGMR	Jun	11	2031.0		2400.0			Meter	IV
PALE	Jun	11	2031.0		2400.0			Meter	IV
LEAR	Jun	11	2317.0		12/0728.0			Meter	IV
KHAR	Jun	13	1025 E		1030 D	302	0.86	H-alpha	S
VORO	Jun	14	0136 E	0140 U	0152	330	0.9	H-alpha	BSD
KHAR	Jun	14	1010 E		1037 D	244	0.51	H-alpha	S
KHAR	Jun	14	1118 E		1125 D	244	0.51	H-alpha	S
WROC	Jun	15	0730		0805	310	0.07	H-alpha	A
ONDR	Jun	15	0813.5		1032.1			Decimeter; meter	II Pulsations

MASS EJECTIONS FROM THE SUN

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Jun 91

JUNE 1991

Site	Mo	Day	— Observed UT —			Location		Freq or Wavelength	Kind of Event
			Start	Max	End	RA*	R/Ro		
POTS	Jun	15	0814.2		1146 U			800- 40 MHz	II Harmonic, IV
SVTO	Jun	15	0816.0		0821.0			Meter	II
WEIS	Jun	15	0816.2		0854.4			280- 30 MHz	II Harmonic
WROC	Jun	15	0820		0831	315	0.16	H-alpha	S
LEAR	Jun	15	0821.0		0928.0			Meter	IV
SVTO	Jun	15	0821.0		1515.0			Meter	IV
WROC	Jun	15	0920		1240	310	0.14	H-alpha	A
SGMR	Jun	15	0929.0		2032.0			Meter	IV
KHAR	Jun	15	0942 E		1143 D	307	1.00-1.10	H-alpha	Q
KHAR	Jun	15	1125 E		1143 D	255	1.00-1.03	H-alpha	S
KHAR	Jun	16	0820 E		0834 D	081	0.93	H-alpha	S
KHAR	Jun	16	0820 E		0910 D	304	1.00-1.03	H-alpha	S
KHAR	Jun	16	0851 E		0855 D	302	1.00-1.10	H-alpha	S
KHAR	Jun	16	1005 E	1008 U	1015 D	081	0.93	H-alpha	S
KHAR	Jun	16	1020 E		1032 D	304	1.00	H-alpha	S
ABST	Jun	17	0546	0606	0637 D	255	1.00	H-alpha	SP
KHAR	Jun	17	0925 E		0945 D	279	0.93	H-alpha	S
KHAR	Jun	17	1050 E	1056 U	1115 D	307	1.00	H-alpha	S
KHAR	Jun	18	0830 E	0835 U	0855 D	293-300	1.00-1.10	H-alpha	SP
POTS	Jun	21	0836.7		0907.0			500- 40 MHz	IV, II Harmonic
WEIS	Jun	21	0841.3		0847.6			80- 30 MHz	II Harmonic
WEIS	Jun	21	0844.2		0856.2			86- 30 MHz	II Harmonic
WEIS	Jun	21	0853.8		0909.6			140- 30 MHz	II Harmonic
POTS	Jun	21	1237 U		1252 U			90- 40 MHz	II?
WEIS	Jun	21	1244.9		1252.3			54- 30 MHz	II
KHAR	Jun	22	1022 E	1025 U	1042 D	254-256	1.00-1.04	H-alpha	S
WROC	Jun	22	1028		1058	257	0.05	H-alpha	A
KHAR	Jun	22	1205 E	1205 U	1210 D	257-259	0.96-0.98	H-alpha	S
SGMR	Jun	26	2014.0		2054.0			Meter	IV
PALE	Jun	26	2020.0		2014.0			Meter	II
PALE	Jun	26	2035.0		2058.0			Meter	IV
POTS	Jun	28	0716.8		0726.2			550- 40 MHz	IV Spikes
POTS	Jun	28	0800.7		0813.0			300- 40 MHz	IV, II Harmonic
WEIS	Jun	28	0807.9		0812.8			160- 30 MHz	II Harmonic
LEAR	Jun	28	0808.0		0813.0			Meter	II
KHAR	Jun	28	0937 E		0950 D	182-184	0.16	H-alpha	S
POTS	Jun	28	1428.9		1435.8			600- 40 MHz	IV, II Harmonic
SVTO	Jun	28	1431.0		1435.0			Meter	II
SGMR	Jun	28	1432.0		1437.0			Meter	II
WEIS	Jun	30	1533.8		1543.3			210- 40 MHz	II Harmonic
SGMR	Jun	30	1534.0		1543.0			Meter	II
SVTO	Jun	30	1534.0		1552.0			Meter	II
WEIS	Jun	30	1546.0		1551.6			70- 30 MHz	II Harmonic

QUALIFIERS ON START, MAX AND END TIMES

D = event ended after tabulated time
 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

ABST = Abastumani
 KHAR = Kharkov
 LEAR = Learmonth
 ONDR = Ondrejov
 PALE = Palehua
 POTS = Potsdam
 SGMR = Sagamore Hill
 SVTO = San Vito
 VORO = Voroshilov
 WEIS = Weissenau
 WROC = Wroclaw

ACTIVE PROMINENCES AND FILAMENTS

JUNE 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
01	ADF	0046E	0048D	S16	W13	05	31.0		07	9	9	E	PALE	6648	
01	AFS	0046E	0318D	N04	E14	06	2.1		03	9	9	E	PALE	6654	
01	AFS	0046E	0318D	N08	E12	06	1.9		04	9	9	E	PALE	6652	
01	AFS	0046E	0318D	S09	E43	06	4.2		02	9	9	E	PALE	6657	
01	AFS	0046E	0318D	S14	W12	05	31.1		04	9	9	E	PALE	6648	
01	ADF	0046E	0318D	S16	W13	05	31.0		07	9	9	E	PALE	6648	
01	APR	0530E	1000D	S20	E90	06	8.1					V	ATHN		
01	DSD	1157E	1245D	S18	W24	05	30.8		08	9	9	E	SVTO	6648	Flare Associated
01	AFS	1244E	1455D	S13	W20	05	31.0		03	9	9	E	RAMY	6648	
01	ADF	1246E	2058D	S06	W07	06	1.0	2	05	9	9	E	RAMY	6652	
01	ASR	1248E	1500D	N37	E87	06	8.5			9	9	E	RAMY		
01	SPY	1506E	1700D	N26	E90	06	8.6			9	9	E	HOLL		
01	BSL	1507	1615	N28	E90	06	8.7			9	9	E	SVTO		Flare Associated
01	BSL	1509	1647D	N25	E90	06	8.6			9	9	E	RAMY		
01	BSL	1516E	1522D	N40	E90	06	9.0			9	9	E	HOLL		
01	LPS	1625E	0144D	N33	E90	06	8.8			9	9	E	HOLL		Flare Associated
01	ASR	1625E	1658D	N36	E90	06	8.9			9	9	E	PALE		
01	LPS	1630E	0330D	N36	E90	06	8.9			9	9	E	PALE		
01	AFS	1640E	0330D	S15	W23	05	31.0		03	9	9	E	PALE	6648	
01	AFS	1710E	0144D	S13	W23	05	31.0		02	8	8	E	HOLL	6648	
01	ADF	1714E	0330D	N08	E03	06	1.9		12	9	9	E	PALE	6654	
01	AFS	1714E	0330D	S10	E35	06	4.3		03	9	9	E	PALE	6657	
01	AFS	1723E	0144D	S10	E34	06	4.3		02	8	8	E	HOLL	6657	
01	ADF	2331E	0159D	N28	W17	05	31.6	1				C	VORO		
01	APR	2355E	0200D	N34	E90	06	9.2	1				C	VORO		
01	APR	2355E	0200D	S04	E90	06	8.7	1				C	VORO		
01	APR	2355E	0200D	S27	E90	06	9.0	1				C	VORO		
02	EPL	0050	0127	N26	E90	06	9.0	1				C	VORO		
02	APR	0056E	0144D	N23	E90	06	9.0	1		9	9	E	HOLL	6659	
02	EPL	0113	0200	N29	E90	06	9.1	2				C	VORO		
02	SSB	0527		430	W00	05	31.0					E	SVTO		
02	AFS	0533E	1740D	N22	E63	06	7.1		02	9	8	E	SVTO	6658	
02	ASR	0535E	0834D	N35	E90	06	9.4			9	9	E	SVTO	6659	
02	AFS	0542E	1740D	S09	W14	06	1.2		02	9	9	E	SVTO	6652	
02	ADF	0543E	1740D	S09	W17	06	1.0	1	07	9	9	E	SVTO	6652	
02	DSD	0553E	1705D	N06	W09	06	1.6		04	9	9	E	SVTO	6654	
02	BSL	0835E	0858D	N32	E90	06	9.5			9	9	E	LEAR	6659	
02	SSB	1059		112	W36	06	3.4			0	0	E	RAMY		
02	ADF	1104E	1623D	S06	W20	06	1.0	1	05	9	9	E	RAMY	6652	
02	SDF	1229E	1430D	N35	W16	06	1.2		16	0	0	E	HOLL		
02	ADF	1230E	1350D	S05	W17	06	1.2	1	07	9	9	E	HOLL	9952	
02	ASR	1230E	1430D	N34	E88	06	9.5			9	9	E	RAMY	6659	
02	AFS	1231E	0039D	S14	W34	05	31.0		02	9	9	E	HOLL	6648	
02	ASR	1232E	0039D	N29	E90	06	9.6			9	9	E	HOLL	6659	
02	CAP	1232E	1858D	N30	E90	06	9.6	1	01	9	9	E	HOLL	6659	
02	AFS	1233E	0039D	N21	E57	06	6.9		02	9	9	E	HOLL	6658	
02	SSB	1250		118	W37	06	4.0			0	0	E	HOLL		
02	DSD	1354	1508	S04	W19	06	1.1		07	9	9	E	RAMY	6652	Flare Associated
02	DSD	1409E	1801D	S09	W24	05	31.8		06	9	9	E	HOLL	6652	Flare Associated
02	ASR	1725E	0403D	N35	E87	06	9.7			9	9	E	PALE	6659	
02	DSD	1725E	0446D	N11	E58	06	7.1		03	9	9	E	PALE	6660	
02	SSB	1730		119	W41	06	4.3			0	0	E	PALE		132 W54
02	LPS	1758E	1858D	S09	W17	06	1.5			9	9	E	HOLL	6652	Flare Associated
02	DSD	1814E	0446D	S10	W17	06	1.5		03	8	9	E	PALE	6652	
02	AFS	1817E	0446D	N10	E56	06	7.0		02	8	8	E	PALE	6660	
02	AFS	1817E	0446D	N21	E60	06	7.4		03	9	9	E	PALE	6658	
02	AFS	1817E	0446D	S10	E22	06	4.4		03	8	8	E	PALE	6657	
02	AFS	1915E	0446D	S14	W38	05	31.0		03	9	9	E	PALE	6648	
03	ASR	0001E	0905D	N37	E90	06	10.2			9	9	E	LEAR	6659	
03	AFS	0002E	0905D	S12	W40	05	31.0		03	9	9	E	LEAR	6648	
03	AFS	0004E	0905D	N09	E51	06	6.8		01	9	9	E	LEAR	6660	
03	DSD	0232E	0418D	S16	E48	06	6.7		03	9	9	E	LEAR	6662	
03	BSL	0534E	0607D	S28	W90	05	27.3	1				C	ABST		
03	ASR	0715E	1511D	S25	W90	05	27.4			9	9	E	SVTO		
03	ASR	1032E	1208D	N31	E80	06	9.7			9	9	E	RAMY	6659	
03	DSD	1048E	1629D	N20	E41	06	6.6		05	9	9	E	RAMY	6658	
03	ASR	1053E	1207D	N12	W89	05	27.8			8	8	E	RAMY	6656	
03	DSD	1055E	1629D	S10	W63	05	29.8		02	9	9	E	RAMY	6649	

ACTIVE PROMINENCES AND FILAMENTS

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Jun 91

JUNE 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
03	AFS	1058E	2155D	S12	W45	05	31.1		02	9	9	E	RAMY	6648	
03	AFS	1058E	2155D	S14	W43	05	31.2		02	9	9	E	RAMY	6648	
03	DSD	1208E	2155D	N27	E75	06	9.3		03	9	9	E	RAMY	6659	
03	APR	1235E	1843D	S17	E90	06	10.4	2		7	9	E	RAMY		
03	AFS	1411E	0159D	S13	W48	05	31.0		02	9	9	E	HOLL	6648	
03	DSD	1509E	0159D	N18	E40	06	6.7		02	9	9	E	HOLL	6658	
03	AFS	1523E	0159D	N10	E47	06	7.2		02	9	9	E	HOLL	6660	
03	ASR	1529E	0159D	N24	W90	05	27.8			9	9	E	HOLL	6644	
03	SSB	1530		426	W00	06	1.7			0	0	E	HOLL		146 W80
03	AFS	1620E	2155D	N10	E55	06	7.8		02	9	9	E	RAMY	6663	
03	AFS	1621E	2155D	N14	E64	06	8.5		02	9	9	E	RAMY	6664	
03	DSD	1625E	2303D	N21	E40	06	6.7		03	9	9	E	PALE	6658	
03	ASR	1625E	2303D	N25	W90	05	27.8			9	9	E	PALE	6644	
03	DSD	1625E	2303D	N28	E72	06	9.3		04	9	9	E	PALE	6659	
03	AFS	1625E	2303D	S13	W47	05	31.1		03	9	9	E	PALE	6648	
03	ADF	1626E	2126D	N19	W64	05	29.9	1	21	9	9	E	RAMY	6644	
03	ASR	1705E	2303D	S17	E90	06	10.5			9	9	E	PALE		
03	SSB	1716		117	W52	06	5.2			0	0	E	PALE		
03	BSD	1858E	0001D	N27	E74	06	9.5		06	9	9	E	HOLL	6659	
03	ASR	1902E	1935D	N37	E84	06	10.6			9	9	E	HOLL	6659	
03	AFS	1906E	0159D	N10	E55	06	7.9		02	9	9	E	HOLL	6663	
03	BSD	1908E	2303D	N35	E80	06	10.2		06	9	9	E	PALE	6659	
03	ADF	1909E	0159D	N04	W10	06	3.0	1	15	9	9	E	HOLL	6654	
03	AFS	1933E	2303D	N12	E55	06	7.9		03	9	9	E	PALE	6663	
04	BSL	0526E	0811D	N38	E90	06	11.5	1				C	ABST		
04	APR	0815E	0940D	N37	E90	06	11.6	1				V	KHAR		
04	DSD	0840E	0910D	N35	E78	06	10.6	1				V	KHAR		
04	ADF	0925E	0940D	N13	E38	06	7.2	1				V	KHAR		
04	DSD	0928E	0942D	N09	E39	06	7.3	1				V	KHAR		
04	DSD	0935E	0944D	N31	E73	06	10.1	1				V	KHAR		
04	ASR	1136E	1657D	S05	E90	06	11.2			6	5	E	SVTO		
04	AFS	1139E	2003D	S13	W57	05	31.2		03	9	9	E	RAMY	6648	
04	ASR	1142E	1817D	N18	W90	05	28.7			9	9	E	RAMY	6644	
04	ADF	1205E	2003D	N15	E55	06	8.7	1	07	9	9	E	RAMY	6664	
04	ADF	1217E	1817D	N11	E44	06	7.8	1	03	9	9	E	RAMY		
04	AFS	1235E	0200D	S13	W60	05	31.0		02	9	9	E	HOLL	6648	
04	ADF	1240E	0200D	S04	W45	06	1.2	1	11	9	9	E	HOLL	6652	
04	SSB	1311		430	W16	06	2.3			0	0	E	RAMY		452 W38 112 W58
04	SSB	1325		425	W11	06	2.7			0	0	E	HOLL		120 W66
04	ADF	1451E	1657D	S12	W42	06	1.4	1	06	9	9	E	SVTO	6652	
04	ASR	1502E	1657D	N23	W90	05	28.8			9	9	E	SVTO		
04	ASR	1633E	0258D	N23	W90	05	28.8			9	9	E	PALE	6644	
04	SSB	1636		428	W16	06	2.6			0	0	E	PALE		119 W67
04	DSD	1644E	0258D	N18	E28	06	6.8		02	9	9	E	PALE	6658	
04	APR	1655E	0036D	N20	W90	05	28.9	1		9	9	E	HOLL	6644	
04	APR	1659E	0258D	N17	W90	05	29.0			9	9	E	PALE	6644	
04	ADF	1800E	0258D	N06	W37	06	2.0	1	08	9	9	E	PALE	6652	
04	ADF	1805E	1950D	N41	E62	06	9.8	1	16	9	9	E	RAMY	6659	
04	BSD	1858E	0001D	N37	E84	06	11.5		06	9	9	E	HOLL	6659	
04	DSD	1948E	2109D	N18	E26	06	6.8		02	9	9	E	RAMY	6658	
04	DSD	1948E	2109D	N21	E32	06	7.3		02	9	9	E	RAMY	6658	
04	BSD	2023E	2053D	N28	E62	06	9.7		13	9	9	E	HOLL	6659	
05	ADF	0610E	1614D	N27	E59	06	9.8	1	09	9	9	E	SVTO	6659	
05	SSB	0705		429	W25	06	3.0			0	0	E	SVTO		118 W74
05	ADF	0903E	0940D	N27	E55	06	9.7	1				V	KHAR		
05	ADF	1015E	1125D	N26	E58	06	9.9	2				V	KHAR		
05	BSD	1105E	1202D	S14	W79	05	30.6		04	9	9	E	SVTO	6648	
05	DSD	1107E	1117D	N34	E47	06	9.2	1				V	KHAR		
05	ADF	1240E	1720D	S07	W57	06	1.2	1	12	9	9	E	HOLL	6652	
05	ADF	1248E	2250D	N32	E63	06	10.5	2	19	9	9	E	RAMY	6659	
05	DSD	1250E	0201D	N33	E51	06	9.6		03	9	9	E	HOLL	6659	
05	AFS	1300E	0201D	N10	E30	06	7.8		02	8	7	E	HOLL	6667	
05	SSB	1305		427	W27	06	3.4			0	0	E	HOLL		
05	SDF	1614E	0430D	N27	E53	06	9.8		15	0	0	E	SVTO	6659	
05	DSD	1720E	0201D	N18	E25	06	7.6		02	9	9	E	HOLL	6658	
05	ADF	1830E	0215D	N06	E29	06	7.9		03	9	9	E	PALE	6663	
05	DSD	1830E	0215D	N14	E20	06	7.3		02	9	9	E	PALE	6658	
05	DSD	1830E	0215D	N33	E54	06	10.1		02	9	9	E	PALE	6659	

ACTIVE PROMINENCES AND FILAMENTS

JUNE 1991

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
05	APR	1830E	0215D	N37	E90	06 13.0			8	6	E	PALE		
05	ADF	1830E	0215D	S16	W45	06 2.3		09	9	9	E	PALE 6652		
05	ADF	1830E	0215D	S23	E63	06 10.6		07	9	9	E	PALE 6666		
05	DSD	1830E	0215D	S28	E38	06 8.7		08	9	9	E	PALE		
05	DSD	1830E	2309D	N07	W56	06 1.6		03	9	9	E	PALE 6654		
05	DSD	1830E	2313D	S16	W22	06 4.1		05	9	9	E	PALE 6657		
05	ADF	2157E	0128D	S04	E20	06 7.4	1				C	VORO		
05	SSB	2211		429	W66	06 3.3			0	0	E	PALE		
05	AFS	2319E	0215D	N34	E43	06 9.4		02	9	9	E	PALE 6659		
05	ADF	2347E	0215D	N16	E39	06 8.9	1	06	9	9	E	PALE 6664		
05	AFS	2351E	0215D	S16	E58	06 10.4		01	9	9	E	PALE 6666		
06	DSD	0110	0118	N33	E49	06 9.9	1				C	VORO		
06	DSD	0110	0123	N31	E48	06 9.8	2				C	VORO		
06	DSD	0112E	0215D	N33	E51	06 10.1		03	9	9	E	PALE 6659		Flare Associated
06	DSD	0126E	0215D	S18	E57	06 10.4		02	9	9	E	PALE 6666		Flare Associated
06	LPS	0147E	0215D	N34	E46	06 9.7			9	9	E	PALE 6659		Flare Associated
06	LPS	0149E	0201D	N29	E41	06 9.3			9	7	E	HOLL 6659		Flare Associated
06	SSB	0430		425	W33	06 4.2			0	0	E	SVTO		
06	DSD	0445E	0522	N34	E39	06 9.3		04	9	9	E	SVTO 6659		
06	DSD	0445E	0524	N36	E45	06 9.8		05	9	9	E	SVTO 6659		
06	DSD	0445E	0750D	N31	E43	06 9.6		14	9	9	E	SVTO 6659		
06	ADF	0510E	1544D	S26	E61	06 10.9	1	10	9	9	E	SVTO 6666		
06	BSD	0709	0750D	S11	W69	06 1.1		28	9	9	E	SVTO 6652		Flare Associated
06	SSB	1059		426	W37	06 4.4			0	0	E	RAMY		
06	ADF	1106E	2209D	N29	E31	06 8.9	1	07	9	9	E	RAMY 6659		
06	ADF	1107E	1345D	N38	E50	06 10.5	1	05	9	9	E	RAMY 6659		
06	ADF	1110E	1133D	N24	E33	06 9.0	1				V	KHAR		
06	DSD	1119E	1133D	N41	E45	06 10.1	1				V	KHAR		
06	ADF	1147E	1213D	N14	W65	06 1.6	2				V	KHAR		
06	DSD	1158E	1204D	N19	E01	06 6.6	1				V	KHAR		
06	ADF	1310E	0201D	N29	E30	06 8.9	1	09	9	9	E	HOLL 6659		
06	DSD	1344E	1445D	N12	E19	06 8.0		04	9	9	E	HOLL 6667		Flare Associated
06	ADF	1452E	1544D	N29	E28	06 8.8	1	07	9	9	E	SVTO 6659		
06	BSL	1700	1736D	S08	W74	06 1.2			9	9	E	HOLL 6652		Flare Associated
06	BSL	1709E	1725	S09	W80	05 31.7			9	9	E	PALE 6652		Flare Associated
06	SSB	1748		440	W34	06 3.5			0	0	E	PALE		
06	SSB	1814		427	W42	06 4.5			0	0	E	HOLL		
06	DSD	1917E	2038D	N13	E26	06 8.8		09	9	9	E	HOLL 6664		Flare Associated
06	DSD	2033E	0225D	S19	E47	06 10.4		01	9	9	E	PALE 6666		
06	DSD	2113E	0225D	N08	E00	06 6.9		03	9	9	E	PALE 6660		
07	AFS	0058E	0444D	S18	W45	06 3.6		02	9	9	E	PALE 6666		
07	AFS	0100E	0444D	N30	E18	06 8.4		02	9	9	E	PALE 6659		
07	ASR	0115E	0444D	S20	E90	06 13.9			9	9	E	PALE		
07	ADF	0145E	0931D	N29	E25	06 9.0	2	08	9	9	E	LEAR 6659		
07	ADF	0221E	0444D	N12	E10	06 7.8	1	05	9	9	E	PALE 6667		
07	ADF	0300E	0931D	S28	E26	06 9.1	2	20	9	9	E	LEAR		
07	ASR	0533E	0645D	S15	W85	05 31.8			9	9	E	SVTO 6648		Flare Associated
07	BSD	0622	1115D	N06	W76	06 1.6		09	9	9	E	SVTO 6654		Flare Associated
07	BSD	0629E	0714	N10	W83	06 1.0		10	9	9	E	LEAR 6654		
07	APR	0636E	1631D	S10	W82	06 1.1	1		9	9	E	SVTO 6652		
07	ADF	0723E	0805D	S27	E15	06 8.5	1				V	KHAR		
07	SSB	0723		428	W50	06 4.9			0	0	E	SVTO		
07	ADF	0906E	1631D	S27	E06	06 7.8	1	18	9	9	E	SVTO		
07	ADF	1135E	2059D	N34	E36	06 10.3	1	02	9	9	E	RAMY 6659		
07	DSD	1205E	1222D	S20	W90	05 31.6	1				V	KHAR		
07	DSD	1253E	0201D	N29	E23	06 9.3		03	8	8	E	HOLL 6659		
07	ASR	1313E	0201D	S11	W85	06 1.1			9	9	E	HOLL 6652		
07	AFS	1315E	1556D	S08	W68	06 2.4		02	8	8	E	HOLL 6652		
07	DSD	1356E	0201D	N29	E27	06 9.7		02	9	9	E	HOLL 6659		Flare Associated
07	APR	1442E	0201D	S07	W90	05 31.9	1		6	6	E	HOLL 6652		
07	DSD	1550E	1912D	S08	W69	06 2.5		02	9	9	E	HOLL 6652		
07	DSD	1620E	1912D	S22	E65	06 12.7		03	9	9	E	RAMY		
07	DSD	1624E	1912D	S07	W66	06 2.7		04	9	9	E	RAMY 6655		
07	SSB	1645		391	W18	05 31.8			0	0	E	HOLL		426 W53
07	AFS	1757E	0457D	N31	E20	06 9.3		03	9	9	E	PALE 6659		
07	DSD	1757E	0457D	N36	E25	06 9.7		03	9	9	E	PALE 6659		
07	DSD	1820E	0457D	S18	E40	06 10.8		05	9	9	E	PALE 6666		
07	ADF	1820E	0457D	S28	E38	06 10.7	1	07	9	9	E	PALE 6666		

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
07	AFS	1832E	0457D	S08	W83	06	1.5		03	9	9	E	PALE	6652	
07	AFS	1912E	1914D	S08	W71	06	2.5		02	9	9	E	HOLL	6659	
07	SDF	2102E	1420D	S28	E27	06	10.0		07	0	0	E	HOLL		
07	ADF	2235E	0201D	N14	W12	06	7.0	1	10	9	9	E	HOLL	6660	
08	AFS	0145	0400D	N20	E20	06	9.6		04	9	9	E	LEAR	6659	
08	AFS	0215	0400D	N07	W16	06	6.9		02	9	9	E	LEAR	6660	
08	BSL	0447E	0454D	S21	E90	06	15.1	1				C	ABST		
08	BSL	0653E	0747D	S08	W90	06	1.5	1				C	ABST		
08	APR	0653E	0747D	S43	E90	06	15.7	1				C	ABST		
08	AFS	1020E	2214D	N10	W25	06	6.5		02	8	8	E	RAMY	6660	
08	AFS	1023E	2214D	S17	E61	06	13.1		02	9	9	E	RAMY	6670	
08	AFS	1128E	2214D	S24	E56	06	12.8		02	9	9	E	RAMY	6669	
08	AFS	1129E	2214D	S12	E19	06	9.9		02	9	9	E	RAMY	6666	
08	AFS	1129E	2214D	S17	E25	06	10.4		01	9	9	E	RAMY	6666	
08	AFS	1130E	2214D	S17	E13	06	9.5		01	9	9	E	RAMY	6668	
08	APR	1132E	2214D	S07	W90	06	1.7	1		9	9	E	RAMY	6652	
08	ASR	1133E	1907D	N11	W90	06	1.7			9	9	E	RAMY	6654	
08	APR	1145E	1434D	S30	E90	06	15.6	2		9	9	E	SVTO		
08	SSB	1146		429	W67	06	5.9			0	0	E	SVTO		
08	EPL	1226E	1535D	S41	E90	06	15.9	2		9	9	E	RAMY		
08	ASR	1235E	1625D	N11	W90	06	1.7			9	9	E	HOLL	6654	
08	APR	1240E	1620D	S28	E90	06	15.6	2		8	9	E	HOLL		
08	APR	1253E	2214D	N11	W90	06	1.8	2		9	9	E	RAMY	6654	
08	DSD	1308E	0010D	N30	E10	06	9.3		03	9	9	E	HOLL	6659	
08	AFS	1310E	1630D	N07	W23	06	6.8		02	9	9	E	HOLL	6660	
08	AFS	1320E	0010D	S12	E17	06	9.8		02	9	9	E	HOLL	6666	
08	AFS	1320E	0010D	S18	E24	06	10.4		02	9	9	E	HOLL	6666	
08	AFS	1330E	0010D	S22	E53	06	12.6		02	9	9	E	HOLL	6669	
08	AFS	1330E	1630D	S16	E60	06	13.1		02	9	9	E	HOLL		
08	ASR	1331E	2214D	S22	E90	06	15.5			9	9	E	RAMY		
08	SDF	1408E	1444D	N09	W19	06	7.2		08	0	0	E	HOLL	6660	
08	SSB	1425		352	W00	06	4.7			0	0	E	HOLL		
08	SSB	1425		426	W66	06	6.3			0	0	E	HOLL		
08	APR	1430E	1434D	S09	W90	06	1.8	2		9	9	E	SVTO	6652	
08	AFS	1520E	2214D	N12	E50	06	12.4		02	9	9	E	RAMY	6671	
08	APR	1625E	0010D	S08	W90	06	1.9	1		9	9	E	HOLL	6652	
08	DSD	1630E	1845D	N11	E48	06	12.3		02	9	9	E	HOLL		
08	AFS	1702E	0500D	N12	E48	06	12.3		02	9	9	E	PALE		
08	DSD	1702E	0500D	N32	E09	06	9.4		06	9	9	E	PALE	6659	
08	AFS	1702E	0500D	S16	E22	06	10.4		03	9	9	E	PALE	6666	
08	AFS	1702E	0500D	S22	E52	06	12.7		03	9	9	E	PALE	6669	
08	SSB	1707		426	W67	06	6.4			0	0	E	PALE		390 W31
08	AFS	1707E	0500D	N09	W25	06	6.8		02	9	9	E	PALE	6660	
08	AFS	1707E	0500D	S16	E59	06	13.2		03	9	9	E	PALE		
08	ASR	1707E	2213D	N09	W90	06	1.9			9	9	E	PALE	6654	
08	AFS	1757E	0457D	N31	E20	06	10.3		03	9	9	E	PALE	6659	
08	DSD	1757E	0457D	N36	E25	06	10.7		03	9	9	E	PALE	6659	
08	DSD	1820E	0457D	S18	E40	06	11.8		05	9	9	E	PALE	6666	
08	ADF	1820E	0457D	S28	E38	06	11.7	1	07	9	9	E	PALE	6666	
08	DSD	1832E	0457D	S06	W85	06	2.4		03	9	9	E	PALE	6652	
08	AFS	1832E	0457D	S08	W83	06	2.5		03	9	9	E	PALE	6652	
08	DSD	1832E	0457D	S22	E65	06	13.8		03	9	9	E	PALE		
08	AFS	1845E	0010D	N12	E47	06	12.3		01	9	9	E	HOLL	6671	
08	ASR	2124E	0034D	S22	E90	06	15.8			9	9	E	PALE		
09	APR	0025E	0500D	S09	W90	06	2.3			9	9	E	PALE	6652	
09	LPS	0226E	0500D	N35	E04	06	9.4			9	9	E	PALE	6659	Flare Associated
09	DSD	0530E	0828D	N16	W08	06	8.6		04	9	9	E	SVTO	6664	
09	EPL	0557	0635D	S09	W90	06	2.5	1				C	ABST		
09	ASR	0648E	1622D	N13	W90	06	2.5			9	9	E	SVTO	6654	
09	BSL	0740E	0750	S08	W90	06	2.6			9	9	E	SVTO		
09	AFS	1021E	1652D	S15	E48	06	13.1		02	9	9	E	RAMY	6670	
09	AFS	1022E	2205D	S23	E44	06	12.8		02	9	9	E	RAMY	6669	
09	ADF	1022E	2205D	S23	E55	06	13.7	1	18	9	9	E	RAMY		
09	DSD	1031E	1232D	N30	E00	06	9.4		02	9	9	E	RAMY	6659	
09	DSD	1038E	1348D	N18	W35	06	6.8		02	9	9	E	RAMY	6658	
09	ASR	1041E	1348D	N14	W90	06	2.6			9	9	E	RAMY		
09	ASR	1111E	2127D	S22	E89	06	16.3			9	9	E	RAMY		
09	SSB	1615		354	W08	06	5.6			0	0	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

JUNE 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
09	AFS	1633E	0449D	S15	E03	06	9.9		03	9	9	E	PALE	6666	
09	AFS	1633E	0449D	S22	E39	06	12.7		02	9	9	E	PALE	6669	
09	AFS	1638E	0449D	N12	E36	06	12.4		03	9	9	E	PALE	6671	
09	AFS	1638E	0449D	N15	E50	06	13.5		02	9	9	E	PALE		
09	AFS	1638E	0449D	S04	W11	06	8.9		02	9	9	E	PALE		
09	SSB	1722		392	W47	06	2.0			0	0	E	PALE		356 W11
09	DSD	1722E	0449D	S12	W56	06	5.5		03	9	9	E	PALE		
09	ADF	1836E	0449D	N31	W05	06	9.4	1	11	9	9	E	PALE	6659	
09	ADF	2053E	2205D	N32	W04	06	9.5	2	12	9	9	E	RAMY	6659	
09	ADF	2140E	2223D	N32	W07	06	9.3	2	10	9	9	E	HOLL	6659	
09	AFS	2202E	2205D	S14	E36	06	12.6		02	7	7	E	RAMY		
10	AFS	0030E	0449D	S15	E33	06	12.5		03	9	9	E	PALE		
10	APR	0144E	0300D	N02	W90	06	3.3	1				C	VORO		
10	APR	0144E	0300D	S24	W90	06	3.1	1				C	VORO		
10	ADF	0145E	0258D	S04	W38	06	7.2	1				C	VORO		
10	ADF	0145E	0258D	S28	W30	06	7.7	1				C	VORO		
10	ADF	0810E	1739D	N36	W02	06	10.2	2	20	9	9	E	SVTO	6659	
10	ADF	1124E	1949D	N31	E01	06	10.5	2	16	9	9	E	RAMY	6659	
10	DSD	1225E	1820D	N20	W27	06	8.4		03	9	9	E	RAMY	6664	
10	ADF	1242E	1822D	N12	W23	06	8.8	2	04	9	9	E	RAMY		
10	AFS	1242E	1830D	N12	W24	06	8.7		02	9	9	E	RAMY		
10	DSD	1644E	0344D	N26	W07	06	10.1		05	9	9	E	PALE	6659	
10	ASR	1724E	0344D	S21	W90	06	3.8			9	9	E	PALE		
10	SDF	1739E	0341D	N26	W26	06	8.7		13	0	0	E	SVTO	6659	
10	AFS	1746E	0344D	S16	W16	06	9.5		05	9	9	E	PALE	6666	
10	DSD	1758E	0344D	N11	W52	06	6.8		02	9	9	E	PALE	6660	
10	SSB	1811		353	W23	06	6.7			0	0	E	PALE		390 W21
10	SDF	1811E	1735D	N23	E25	06	12.7		18	0	0	E	PALE		
10	SSB	1852		368	W37	06	5.3			0	0	E	RAMY		
10	APR	2133E	2301D	S14	E90	06	17.7	1				C	VORO		
10	ADF	2133E	2315D	S04	W47	06	7.4	1				C	VORO		
10	AFS	2250E	0050D	S14	W16	06	9.7		04	9	9	E	HOLL	6666	
10	SSB	2307		342	W13	06	7.8			0	0	E	HOLL		368 W39
10	SDF	2307E	2305D	N22	E22	06	12.6		09	0	0	E	HOLL		
10	ADF	2322E	0050D	N28	W07	06	10.4	1	08	9	9	E	HOLL	6659	
11	LPS	0229E	0320D	N31	W17	06	9.8			9	9	E	LEAR	6659	Flare Associated
11	LPS	0353E	0845D	N30	W18	06	9.7			9	9	E	SVTO	6659	Flare Associated
11	AFS	0846E	1738D	S21	E59	06	15.9		03	9	9	E	SVTO		
11	ADF	0847E	1738D	N30	W25	06	9.4	1	14	9	9	E	SVTO	6659	
11	ADF	0928E	1010D	N45	W26	06	9.2	1				V	KHAR		
11	ADF	0945E	1000	S19	E22	06	13.1	1				V	KHAR		
11	ADF	1045E	1120D	N45	W26	06	9.3	1				V	KHAR		
11	AFS	1045E	1624D	S23	E20	06	13.0		02	9	9	E	RAMY	6669	
11	ADF	1118E	1629D	N15	E29	06	13.7	2	03	9	9	E	RAMY	6672	
11	ADF	1135E	2155D	N28	W23	06	9.7	1	04	9	9	E	RAMY	6659	
11	AFS	1140E	1618D	S15	W18	06	10.1		04	9	9	E	RAMY	6666	
11	DSD	1143E	1150	N13	E08	06	12.1	1				V	KHAR		
11	SSB	1215		325	W02	06	9.6			0	0	E	RAMY		340 W17 345 W22
11	SSB	1215		355	W32	06	7.1			0	0	E	RAMY		362 W39 369 W46
11	SSB	1215		391	W65	06	3.4			0	0	E	RAMY		
11	DSD	1729E	2331D	N27	W32	06	9.2		03	9	9	E	HOLL	6659	Flare Associated
11	SSB	1735		352	W29	06	7.6			0	0	E	PALE		392 W15
11	AFS	1749E	0155D	N08	W65	06	6.9		02	9	9	E	PALE	6660	
11	ADF	1749E	0155D	N28	W32	06	9.2		04	9	9	E	PALE	6659	
11	DSD	1749E	0204D	N07	W53	06	7.8		02	9	9	E	PALE	6663	
11	ADF	1749E	0442D	N20	W65	06	6.8	1	05	9	9	E	PALE	6658	
11	ADF	1819E	0442D	S18	W21	06	10.2		08	9	9	E	PALE	6666	
11	ADF	1819E	0442D	S19	E13	06	12.7	1	12	9	9	E	PALE	6669	
11	MDP	1825E	0442D	S31	E90	06	18.9			9	7	E	PALE		
11	AFS	1837E	2331D	S14	W27	06	9.7		02	9	9	E	HOLL	6666	
11	AFS	1837E	2331D	S17	W27	06	9.7		02	9	9	E	HOLL	6666	
11	LPS	2205E	0146D	N30	W38	06	8.9			9	9	E	HOLL	6659	Flare Associated
11	LPS	2224E	0205D	N32	W41	06	8.7			9	9	E	PALE	6659	Flare Associated
12	DSD	0200E	0442D	N09	W71	06	6.7		02	8	8	E	PALE	6660	
12	BSL	0601E	0730D	S29	W90	06	5.2	1				C	ABST		
12	AFS	0820E	1738D	N32	W35	06	9.6		02	9	9	E	SVTO	6659	
12	AFS	0835E	1738D	S21	E48	06	16.0		02	9	9	E	SVTO	6673	

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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
12	AFS	0855E	1738D	S14	E01	06	12.4		02	7	8	E	SVTO	6675	
12	ADF	0906E	1738D	N09	W49	06	8.7	1	07	9	9	E	SVTO		
12	AFS	1057E	1912D	N28	W33	06	9.9		02	9	9	E	RAMY	6659	
12	AFS	1057E	2200D	N32	W27	06	10.3		02	9	9	E	RAMY	6659	
12	AFS	1104E	2200D	S16	W32	06	10.0		02	8	8	E	RAMY	6666	
12	AFS	1109E	2200D	S22	E46	06	16.0		02	7	7	E	RAMY	6673	
12	AFS	1111E	2200D	S07	E23	06	14.2		03	9	9	E	RAMY	6676	
12	AFS	1117E	2200D	S14	E01	06	12.5		03	9	9	E	RAMY	6675	
12	BSD	1123E	1308D	N19	W72	06	7.0		03	9	9	E	RAMY	6658	
12	AFS	1254E	0038D	S07	E21	06	14.1		02	9	9	E	HOLL	6676	
12	DSD	1254E	0038D	S08	E23	06	14.3		03	9	9	E	HOLL	6676	
12	SSB	1305		322	W16	06	10.9		0	0	0	E	RAMY		341 W32 363 W54
12	DSD	1308E	1912D	S07	E22	06	14.2		03	9	9	E	RAMY	6676	
12	AFS	1315E	0038D	S21	E42	06	15.8		02	9	9	E	HOLL	6673	
12	ASR	1500E	0038D	S32	E90	06	19.7		02	9	9	E	HOLL		
12	DSD	1630E	0500D	N33	W41	06	9.4		04	9	9	E	PALE	6659	
12	AFS	1630E	0500D	S07	E23	06	14.4		03	9	9	E	PALE		
12	AFS	1630E	0500D	S15	E01	06	12.8		02	9	9	E	PALE	6670	
12	AFS	1630E	0500D	S21	W02	06	12.5		02	9	9	E	PALE	6669	
12	AFS	1630E	0500D	S22	E43	06	16.0		03	9	9	E	PALE	6673	
12	ASR	1630E	0500D	S32	E90	06	19.8		02	9	9	E	PALE		
12	ADF	1633E	2102D	N19	W69	06	7.4	1	08	9	9	E	RAMY	6658	
12	DSD	1640E	0500D	S01	W57	06	8.4		03	9	9	E	PALE		
12	AFS	1640E	0500D	S14	W38	06	9.8		04	9	9	E	PALE	6666	
12	DSD	1640E	0500D	S17	W34	06	10.1		03	9	9	E	PALE	6666	
12	ASR	1642E	2200D	S32	E90	06	19.8		02	9	9	E	RAMY		
12	DSD	1747E	0038D	N31	W39	06	9.7		06	9	9	E	HOLL	6659	Flare Associated
12	AFS	2010E	0500D	S06	E18	06	14.2		02	9	9	E	PALE	6676	
12	AFS	2101E	2200D	S11	E69	06	18.1		02	9	9	E	RAMY		
12	LPS	2205E	0146D	N30	W38	06	9.9		02	9	9	E	HOLL	6659	Flare Associated
13	BSD	0337E	0500D	N30	W49	06	9.3		03	9	9	E	PALE	6659	
13	ASR	0450E	1612D	N08	W90	06	6.4		07	7	7	E	SVTO	6660	
13	ADF	0450E	1756D	N34	W43	06	9.8	1	07	9	9	E	SVTO	6659	
13	AFS	0739E	1613D	S20	W06	06	12.8		03	9	9	E	SVTO	6659	
13	AFS	0810E	0911D	N28	W42	06	10.0		02	9	9	E	LEAR	6659	
13	ADF	0811E	0911D	S19	W46	06	9.8	2	04	9	9	E	LEAR	6666	
13	ADF	0847E	0905D	N26	W53	06	9.2	1				V	KHAR		
13	DSD	0848	0901	N27	W54	06	9.1		03	9	9	E	SVTO	6659	Flare Associated
13	ADF	0912E	0919D	N24	W57	06	9.0	1				V	KHAR		
13	DSD	1025E	1030D	N28	W57	06	9.0	1				V	KHAR		
13	ASR	1037E	1615D	S28	E90	06	20.5		02	9	9	E	SVTO		
13	DSD	1124E	1923D	N37	W52	06	9.3		02	9	9	E	RAMY	6659	
13	ADF	1124E	2150D	N35	W45	06	9.9	2	11	9	9	E	RAMY	6659	
13	DSD	1333E	1644D	S28	E73	06	19.3		02	9	9	E	RAMY		
13	ADF	1334E	1923D	S15	E50	06	17.3	2	06	9	9	E	RAMY		
13	AFS	1533E	0056D	S08	E06	06	14.1		02	9	9	E	HOLL	6676	
13	ADF	1640E	0056D	N25	W48	06	10.0	1	09	9	9	E	HOLL	6659	
13	DSD	1640E	0056D	N29	W48	06	9.9		04	9	9	E	HOLL	6659	
13	AFS	1641E	2006D	S11	E59	06	18.1		02	7	7	E	RAMY		
13	BSD	1648E	2250D	S28	E76	06	19.6		14	9	9	E	HOLL		
13	SSB	1650		364	W71	06	7.9		0	0	0	E	RAMY		
13	ADF	1714E	0501D	N29	W54	06	9.5		11	9	9	E	PALE	6659	
13	DSD	1714E	0501D	N30	W56	06	9.3		05	9	9	E	PALE	6659	Flare Associated
13	ADF	1714E	0501D	N35	W52	06	9.5		08	9	9	E	PALE	6659	
13	AFS	1717E	0501D	N10	E58	06	18.1		02	9	9	E	PALE		
13	AFS	1717E	0501D	S06	E05	06	14.1		03	8	8	E	PALE	6676	
13	ADF	1717E	2016D	S15	E53	06	17.7		05	9	9	E	PALE		
13	SSB	1721		360	W67	06	8.3		0	0	0	E	PALE		339 W46 320 W27
13	ADF	1721E	2230D	S15	W52	06	9.8		09	9	9	E	PALE	6666	
13	ASR	2003E	2128D	S29	E84	06	20.4		02	9	9	E	RAMY		
13	AFS	2012E	0501D	N11	W20	06	12.3		03	9	9	E	PALE	6671	
13	AFS	2013E	0501D	S13	E40	06	16.9		02	9	9	E	PALE		
13	ASR	2016E	0056D	N18	W90	06	7.0		02	9	9	E	PALE	6658	
13	DSD	2033E	0501D	S13	W63	06	9.1		02	9	9	E	PALE	6666	
13	DSD	2044E	0501D	S21	E26	06	15.8		02	9	9	E	PALE	6673	
13	SDF	2049E	1624D	S27	W01	06	13.8		11	0	0	E	HOLL		
14	BSD	0016	0240D	N30	W61	06	9.2		04	9	9	E	PALE	6659	Flare Associated
14	ASR	0115E	0915D	N12	W90	06	7.3		4	4	4	E	LEAR	6667	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
14	AFS	0130E	0915D	S14	E37	06	16.8		03	6	6	E	LEAR		
14	BSD	0136E	0152	N30	W65	06	8.9					C	VORO		
14	ADF	0140E	0240D	N35	W65	06	8.9	1				C	VORO		
14	ASR	0325E	0915D	N19	W90	06	7.3			6	6	E	LEAR	6658	
14	AFS	0330E	0915D	N11	W22	06	12.5		02	4	3	E	LEAR	6671	
14	BSL	0559E	0803D	S07	W90	06	7.5	1				C	ABST		
14	ADF	0800E	0850D	N26	W65	06	9.3	1				V	KHAR		
14	ADF	0948E	1130D	N36	W68	06	8.9	1				V	KHAR		
14	DSD	1010E	1037D	S12	W28	06	12.3	1				V	KHAR		
14	ADF	1028E	1130D	N36	W68	06	9.0	1				V	KHAR		
14	AFS	1028E	1648D	S10	E47	06	18.0		02	9	9	E	SVTO		
14	DSD	1053E	1648D	N32	W58	06	9.9		10	9	9	E	SVTO	6659	
14	DSD	1118E	1125D	S12	W28	06	12.4	1				V	KHAR		
14	ADF	1132E	1800D	S14	E39	06	17.4	1	06	9	9	E	SVTO		
14	ADF	1159E	1800D	N33	W58	06	9.9	1	10	9	9	E	SVTO	6659	
14	ADF	1315E	0127D	N25	W60	06	9.9	1	13	9	9	E	HOLL	6659	
14	ADF	1315E	0127D	N35	W61	06	9.7	1	09	9	9	E	HOLL	6659	
14	SDF	1520E	1408D	N26	E28	06	16.8	3	11	0	0	E	RAMY		
14	DSD	1545E	2117D	N34	W65	06	9.5		08	9	9	E	RAMY	6659	
14	BSD	1814E	2121D	S14	W74	06	9.2		08	9	9	E	HOLL	6666	
14	BSD	1817E	1836D	S15	W77	06	8.9		12	9	9	E	PALE	6666	
14	DSD	1820E	1948D	S12	W72	06	9.3		14	9	9	E	RAMY	6666	
14	AFS	1822E	0351D	N11	W32	06	12.3		03	9	9	E	PALE	6671	
14	ADF	1825E	0351D	N26	W77	06	8.8		09	9	9	E	PALE	6659	
14	DSD	1825E	0351D	N32	W70	06	9.2		03	9	9	E	PALE	6659	
14	AFS	1830E	0351D	S12	W32	06	12.3		03	9	9	E	PALE	6675	
14	DSD	1830E	0351D	S25	E61	06	19.5		02	9	9	E	PALE	6678	
14	AFS	1830E	0351D	S29	E56	06	19.2		02	9	9	E	PALE	6677	
14	DSD	1836E	0351D	S13	W71	06	9.4		03	9	9	E	PALE	6666	
14	SSB	1837		328	W50	06	12.4			0	0	E	PALE		293 W14
14	ASR	1837E	0351D	S09	E90	06	21.5			9	9	E	PALE		
14	BSL	2200E	2220	N23	W90	06	8.0	1				C	VORO		
14	SSB	2224		342	W65	06	11.2			0	0	E	HOLL		
15	BSD	0413E	0529D	N33	W66	06	9.9		09	9	9	E	SVTO	6659	Flare Associated
15	SDF	0431E	1507D	S43	E16	06	16.5		09	0	0	E	SVTO		
15	BSD	0433E	1759D	N08	E81	06	21.3		09	9	9	E	SVTO		
15	ADF	0530E	1759D	N29	W59	06	10.6	1	22	9	9	E	SVTO	6659	
15	BSD	0750E	0831	N33	W75	06	9.4		14	9	9	E	SVTO	6659	Flare Associated
15	BSL	0831	0840	N34	W90	06	8.2			9	9	E	SVTO	6659	Flare Associated
15	EPL	0942E	1143D	N37	W90	06	8.1	1				V	KHAR		
15	APR	1000E	1100D	N38	W90	06	8.1					V	ATHN		
15	ADF	1028E	1050D	S47	E16	06	16.8	1				V	KHAR		
15	LPS	1030E	1939D	N36	W72	06	9.6			9	9	E	RAMY	6659	
15	AFS	1036E	1939D	S20	E03	06	15.7		02	9	9	E	RAMY	6673	
15	AFS	1037E	1939D	S12	W42	06	12.3		03	9	9	E	RAMY	6675	
15	ASR	1038E	1939D	S12	W83	06	9.2			9	9	E	RAMY	6666	
15	AFS	1040E	1939D	N12	W40	06	12.4		02	9	9	E	RAMY	6671	
15	ADF	1041E	1939D	N30	W62	06	10.6	2	28	9	9	E	RAMY	6659	
15	BSL	1125E	1143D	S15	W90	06	8.7	1				V	KHAR		
15	LPS	1211E	0151D	N30	W90	06	8.4			9	9	E	HOLL	6659	
15	BSD	1245E	2249D	N07	E77	06	21.3		06	9	9	E	HOLL	6681	
15	AFS	1247E	0151D	N11	W42	06	12.4		02	9	9	E	HOLL	6671	
15	ADF	1248E	1723D	S22	E03	06	15.8	1	04	9	9	E	HOLL	6673	
15	AFS	1250E	2145D	S13	W41	06	12.4		02	9	9	E	HOLL	6675	
15	AFS	1251E	2145D	S13	E17	06	16.8		02	9	9	E	HOLL	6677	
15	AFS	1252E	0151D	S12	E34	06	18.1		02	9	9	E	HOLL	6682	
15	SSB	1320		302	W33	06	15.4			0	0	E	HOLL		347 W78
15	LPS	1642E	0441D	N38	W90	06	8.4			9	9	E	PALE	6659	
15	AFS	1718E	0441D	N12	W47	06	12.2		02	9	9	E	PALE	6671	
15	DSD	1718E	0441D	S19	W67	06	10.6		03	9	9	E	PALE	6666	
15	ADF	1718E	0441D	S22	W40	06	12.6	1	06	8	8	E	PALE	6669	
15	ADF	1724E	0441D	S11	E13	06	16.7		06	9	8	E	PALE	6677	
15	DSD	1724E	0441D	S12	W47	06	12.2		03	9	9	E	PALE	6675	
15	ADF	1724E	0441D	S14	E25	06	17.6	1	06	9	9	E	PALE	6680	
15	AFS	1725E	0151D	S29	E52	06	19.8		01	9	9	E	HOLL	6678	
15	APR	1749E	0151D	N62	W90	06	7.8	1		9	9	E	HOLL	6659	
15	ASR	1754E	2214D	N14	W90	06	8.9			9	9	E	PALE	6666	
15	ASR	1755E	0151D	S14	W89	06	9.0			9	9	E	HOLL	6666	
15	BSD	2055E	2140D	S13	W80	06	9.8		12	9	9	E	HOLL	6666	Flare Associated

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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
15	APR	2139E	2352D	N28	W90	06	8.9	1				C	VORO		
15	APR	2139E	2352D	S24	W90	06	8.9	1				C	VORO		
15	DSD	2243E	0441D	S10	E27	06	18.0		05	9	9	E	PALE	6682	
16	APR	0004E	0201D	N27	W90	06	9.0	1				C	VORO		
16	APR	0004E	0201D	S25	W90	06	9.0	1				C	VORO		
16	LPS	0011E	0926D	N34	W84	06	9.3			9	9	E	LEAR	6659	
16	ASR	0052E	0340D	S14	W90	06	9.2			9	9	E	PALE	6666	
16	ASR	0055E	0926D	S13	W90	06	9.2			9	9	E	LEAR	6666	
16	AFS	0056E	0926D	N11	W49	06	12.3		02	9	9	E	LEAR	6671	
16	AFS	0057E	0926D	S23	W01	06	16.0		02	9	9	E	LEAR	6673	
16	AFS	0058E	0926D	S11	E26	06	18.0		03	9	9	E	LEAR	6682	
16	ASR	0414E	0441D	S15	W90	06	9.4			9	9	E	PALE	6666	
16	APR	0415E	1806D	N24	W85	06	9.6	2		9	9	E	SVTO	6659	
16	ASR	0416E	1806D	N32	W84	06	9.5			9	9	E	SVTO	6659	
16	AFS	0417E	1806D	S11	E26	06	18.1	1	03	9	9	E	SVTO	6682	
16	AFS	0418E	1806D	S15	E17	06	17.5		02	9	9	E	SVTO	6680	
16	AFS	0419E	1532D	S15	W07	06	15.6	1	02	9	9	E	SVTO	6673	
16	LPS	0429E	1142D	N35	W90	06	9.0			9	9	E	SVTO	6659	
16	ADF	0508E	1533D	N26	W78	06	10.1	1	11	9	9	E	SVTO	6659	
16	DSD	0820E	0834D	N09	E70	06	21.6	1				V	KHAR		
16	BSL	0820E	0910D	N33	W90	06	9.2	1				V	KHAR		
16	DSD	0823E	0850D	N09	E67	06	21.4		04	9	9	E	SVTO	6681	Flare Associated
16	ADF	0837E	1030D	S24	W03	06	16.1	1				V	KHAR		
16	BSL	0851E	0855D	N31	W90	06	9.3	1				V	KHAR		
16	DSD	1005E	1015D	N09	E70	06	21.7	1				V	KHAR		
16	BSL	1020E	1032D	N33	W90	06	9.3	1				V	KHAR		
16	AFS	1054E	2209D	N13	W53	06	12.4		02	9	9	E	RAMY	6671	
16	AFS	1055E	2209D	S29	E41	06	19.7		02	9	9	E	RAMY	6678	
16	AFS	1056E	2209D	S12	E22	06	18.1		02	9	9	E	RAMY	6682	
16	AFS	1056E	2209D	S15	E13	06	17.4		02	9	9	E	RAMY	6680	
16	AFS	1058E	2209D	S15	W11	06	15.6		01	8	8	E	RAMY	6683	
16	AFS	1105E	2209D	S14	W53	06	12.4		03	9	9	E	RAMY	6675	
16	DSD	1107E	1512D	N07	E65	06	21.3		03	9	9	E	RAMY	6681	
16	APR	1206E	1408D	S16	W90	06	9.7	2		9	9	E	RAMY	6666	
16	ASR	1211E	0208D	S19	W90	06	9.6			9	9	E	HOLL	6666	
16	ASR	1212E	0208D	N31	W90	06	9.4			9	9	E	HOLL	6659	
16	SDF	1233E	1445D	N18	W40	06	13.5		04	0	0	E	HOLL	6672	
16	APR	1240E	0208D	N26	W90	06	9.5	1		9	9	E	HOLL	6659	
16	APR	1241E	0208D	S17	W90	06	9.7	1		9	9	E	HOLL	6666	
16	AFS	1245E	0208D	N12	W55	06	12.4		02	9	9	E	HOLL	6671	
16	AFS	1248E	0208D	S11	E21	06	18.1		03	9	9	E	HOLL	6682	
16	AFS	1325E	0208D	N09	E63	06	21.3		02	9	9	E	HOLL	6681	
16	AFS	1326E	0208D	S15	E12	06	17.5		01	9	9	E	HOLL	6680	
16	AFS	1337E	0050D	S16	W13	06	15.6		01	9	9	E	HOLL	6683	
16	AFS	1341E	0208D	S28	E41	06	19.8		01	9	9	E	HOLL	6678	
16	CAP	1411E	0140D	N33	W90	06	9.4	1	02	9	9	E	HOLL	6659	
16	SSB	1414		S04	W50	06	16.2			0	0	E	HOLL		
16	CRN	1429E	0140D	N32	W90	06	9.5		16	7	8	E	HOLL	6659	
16	ASR	1509E	1540D	S12	W90	06	9.8			9	9	E	RAMY		
16	AFS	1546E	2209D	S17	E71	06	22.0		02	9	9	E	RAMY		
16	ASR	1615E	2209D	S15	W90	06	9.9			8	9	E	RAMY	6666	
16	AFS	1633E	2209D	N11	E65	06	21.6		02	8	8	E	RAMY	6681	
16	ASR	1702E	2209D	S24	E89	06	23.6			9	9	E	RAMY		
16	ASR	1754E	0208D	S24	E90	06	23.7			9	9	E	HOLL		
16	AFS	1851E	2209D	S19	E17	06	18.1		02	9	9	E	RAMY		
16	ASR	1932E	0442D	N35	W90	06	9.6			9	9	E	PALE	6659	
16	AFS	1937E	0208D	S20	E17	06	18.1		01	6	6	E	HOLL		
16	ASR	1947E	0442D	S22	E90	06	23.7			9	9	E	PALE		
16	AFS	2028E	2029D	N12	W63	06	12.1		04	9	9	E	PALE	6675	
16	ADF	2028E	2029D	S19	W55	06	12.6	1	05	9	9	E	PALE	6671	
16	AFS	2043E	0442D	N10	E65	06	21.7		04	9	9	E	PALE	6681	
16	DSD	2043E	0442D	S10	E18	06	18.2		05	9	9	E	PALE	6682	
16	ADF	2043E	0442D	S12	W60	06	12.3		06	9	9	E	PALE	6675	
16	ADF	2143E	0151D	S12	E27	06	18.9	1	06	9	9	E	HOLL	6680	
17	AFS	0005E	0930D	N08	E55	06	21.1		02	9	9	E	LEAR	6681	
17	ADF	0006E	0930D	N11	E58	06	21.4	1	04	9	9	E	LEAR	6681	
17	ASR	0423E	0442D	S19	W90	06	10.3			9	9	E	PALE	6666	
17	AFS	0445E	1705D	N09	E53	06	21.2	1	02	9	9	E	SVTO	6681	

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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
17	AFS	0447E	1705D	S12	E14	06	18.2		02	9	9	E	SVTO	6682	
17	AFS	0457E	1737D	S23	W20	06	15.7		03	5	7	E	SVTO	6673	
17	ADF	0502E	0940D	N15	W52	06	13.3	2	06	8	6	E	SVTO	6672	
17	APR	0508E	1737D	N32	W90	06	10.1	2		9	9	E	SVTO	6659	
17	ASR	0509E	1737D	N35	W90	06	10.0			9	9	E	SVTO	6659	
17	APR	0510E	1705D	N26	W90	06	10.2	2		9	9	E	SVTO	6659	
17	ADF	0520E	1705D	S13	W63	06	12.5	2	04	8	9	E	SVTO	6675	
17	AFS	0522E	1737D	S16	W64	06	12.4		02	8	6	E	SVTO	6675	
17	AFS	0528E	1737D	S14	E64	06	22.1		02	9	9	E	SVTO		
17	AFS	0538E	1737D	N10	W65	06	12.3	1	02	9	9	E	SVTO	6671	
17	ADF	0540E	1737D	N08	W67	06	12.2	2	02	9	9	E	SVTO	6671	
17	BSL	0546	0637D	S15	W90	06	10.4	1				C	ABST		
17	EPL	0552	0650D	S15	W90	06	10.4	1		9	9	E	SVTO	6666	
17	SSB	0620		219	W00	06	18.7			0	0	E	SVTO		
17	APR	0648E	0803D	N21	W90	06	10.4	1				C	ABST		
17	DSD	0925E	0945D	N09	W69	06	12.2	1				V	KHAR		
17	ADF	1024E	1045D	S14	W59	06	13.0	1				V	KHAR		
17	BSL	1050E	1115D	N37	W90	06	10.2	1				V	KHAR		
17	APR	1052E	2306D	N39	W90	06	10.1			9	9	E	RAMY	6659	
17	AFS	1057E	2306D	S12	E10	06	18.2		03	9	9	E	RAMY	6682	
17	AFS	1104E	2306D	S16	E60	06	22.0		02	6	6	E	RAMY		
17	AFS	1116E	2306D	N12	W67	06	12.4		03	9	9	E	RAMY	6671	
17	AFS	1119E	2306D	S05	W45	06	14.1		03	7	7	E	RAMY	6676	
17	AFS	1126E	2306D	S29	E28	06	19.7		03	9	8	E	RAMY	6678	
17	ASR	1205E	2306D	S18	W90	06	10.6			9	9	E	RAMY	6666	
17	ASR	1227E	2306D	N35	W90	06	10.3			9	9	E	RAMY	6659	
17	AFS	1230E	0206D	N11	W67	06	12.5		03	9	9	E	HOLL	6671	
17	AFS	1255E	2055D	S16	E57	06	21.9		02	8	8	E	HOLL		
17	CAP	1320E	0206D	N34	W90	06	10.4		01	8	8	E	HOLL	6659	
17	CAP	1320E	1430D	N34	W90	06	10.4		01	8	8	E	HOLL	6659	
17	AFS	1337E	0050D	S16	W13	06	16.6		01	9	9	E	HOLL		
17	AFS	1402E	0206D	N08	E49	06	21.2		02	7	7	E	HOLL	6681	
17	AFS	1405E	0206D	S12	E08	06	18.2		02	9	9	E	HOLL	6682	
17	AFS	1407E	2306D	N07	E49	06	21.2		02	9	9	E	RAMY	6681	
17	SSB	1425		303	W62	06	17.3			0	0	E	HOLL		
17	SDF	1445E	1527D	N21	E20	06	19.1		26	0	0	E	HOLL		
17	ASR	1636E	1833D	N27	W90	06	10.7			9	9	E	PALE	6659	
17	ASR	1641E	1720D	N28	W90	06	10.7			9	9	E	RAMY	6659	
17	ADF	1723E	1725D	S19	W70	06	12.4		04	7	7	E	PALE	6671	
17	AFS	1736E	0459D	N12	W76	06	12.0		04	9	9	E	PALE	6671	
17	ADF	1736E	0459D	S20	W31	06	15.4		06	9	8	E	PALE	6673	
17	DSD	1736E	0459D	S22	W23	06	16.0		03	9	8	E	PALE	6673	
17	ADF	1745E	0459D	N15	E53	06	21.7		06	9	9	E	PALE	6681	
17	DSD	1745E	0459D	S11	E06	06	18.2		04	9	9	E	PALE	6682	
17	ADF	1745E	0459D	S24	E71	06	23.2	1	09	9	9	E	PALE		
17	DSD	1745E	0459D	S30	E27	06	19.9		02	9	9	E	PALE	6678	
17	ASR	1915E	0206D	S20	W90	06	10.9			9	9	E	HOLL	6666	
17	ASR	2119E	0114D	N39	W90	06	10.6			9	9	E	PALE	6659	
17	ADF	2231E	0141D	N13	E15	06	19.1	1				C	VORO		
17	APR	2241E	0011D	S38	W90	06	10.7	1				C	VORO		
18	AFS	0110E	0926D	S06	W54	06	14.0		01	9	9	E	LEAR	6676	
18	ADF	0111E	0926D	S27	E70	06	23.5	1	09	9	9	E	LEAR		
18	BSD	0136E	0206D	N12	W73	06	12.6		05	9	9	E	HOLL	6671	
18	ASR	0417E	0459D	N12	W87	06	11.6			9	9	E	PALE	6671	
18	AFS	0735E	1740D	N10	W83	06	12.1	1	02	9	9	E	SVTO	6671	
18	AFS	0736E	1740D	S12	W01	06	18.2		03	9	9	E	SVTO	6682	
18	ADF	0737E	1740D	S23	E71	06	23.8	1	15	9	9	E	SVTO		
18	BSL	0830E	0855D	N30	W90	06	11.3	2				V	KHAR		
18	ASR	0837E	0852	N27	W90	06	11.3			9	9	E	SVTO	6659	
18	BSL	0852	0905	N27	W90	06	11.3			9	9	E	SVTO	6659	
18	ASR	1055E	1740D	N09	W90	06	11.7			9	9	E	SVTO	6671	
18	AFS	1209E	2221D	N08	E36	06	21.2		02	8	8	E	RAMY	6681	
18	AFS	1209E	2221D	S12	W03	06	18.3		03	9	9	E	RAMY	6682	
18	DSD	1215E	1727D	S16	W36	06	15.8		02	9	9	E	RAMY	6673	
18	ASR	1216E	2221D	N12	W81	06	12.4			9	9	E	RAMY	6671	
18	ADF	1221E	2221D	S26	E66	06	23.6	1	12	9	9	E	RAMY		
18	DSD	1247E	1533D	S16	E71	06	23.9		02	9	9	E	HOLL		
18	ADF	1250E	0201D	S26	E63	06	23.4	1	19	9	9	E	HOLL		
18	SSB	1328		302	W73	06	18.4			0	0	E	HOLL		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
18	AFS	1650E	1939D	N11	E37	06	21.5		02	9	9	E	PALE	6681	
18	ASR	1650E	1939D	N12	W90	06	11.9			9	9	E	PALE	6671	
18	AFS	1650E	1939D	S13	W06	06	18.2		03	9	9	E	PALE	6682	
18	AFS	1650E	1939D	S28	E11	06	19.6		03	9	9	E	PALE	6678	
18	SSB	1656		232	W05	06	21.1			0	0	E	PALE		
18	ADF	2205E	0300D	S27	E42	06	22.2	1				C	VORO		
18	BSD	2221E	2332D	S24	W85	06	12.4		04	9	9	E	HOLL	6669	
18	APR	2309E	0201D	S27	W90	06	11.9	1				C	VORO		
18	BSL	2314	0022	S16	W90	06	12.1	1				C	VORO		
19	DSD	0023E	0930D	N09	E30	06	21.3		02	9	9	E	LEAR	6681	
19	AFS	0023E	0930D	S11	W08	06	18.4		04	9	9	E	LEAR	6682	
19	ASR	0023E	0930D	S18	W87	06	12.4			9	9	E	LEAR	6670	
19	ASR	0117E	0930D	N11	W90	06	12.3			9	9	E	LEAR	6671	
19	BSL	0138	0200	N13	W90	06	12.3	1				C	VORO		
19	ADF	0720E	1750D	S15	W20	06	17.8	1	06	9	9	E	SVTO	6680	
19	ASR	0743E	1039D	N10	W90	06	12.5			9	9	E	SVTO	6671	
19	ASR	0744E	1137D	S20	W90	06	12.4			9	9	E	SVTO	6669	
19	ASR	1104E	1940D	S17	W90	06	12.6			9	9	E	RAMY	6675	
19	AFS	1107E	2233D	N16	E33	06	22.0		03	9	9	E	RAMY	6687	
19	AFS	1111E	2233D	S16	E59	06	23.9		03	9	9	E	RAMY	6686	
19	AFS	1121E	2233D	S02	W71	06	14.2		02	8	8	E	RAMY	6676	
19	AFS	1125E	2233D	N08	E23	06	21.2		02	9	9	E	RAMY	6681	
19	AFS	1126E	2233D	S11	W16	06	18.3		04	7	7	E	RAMY	6682	
19	APR	1134E	2233D	S01	W90	06	12.8	2		9	9	E	RAMY	6676	
19	DSD	1237	1355D	N08	E21	06	21.1		05	9	9	E	HOLL	6681	Flare Associated
19	DSD	1237E	1314D	N08	E22	06	21.2		07	9	9	E	SVTO	6681	Flare Associated
19	AFS	1244E	0201D	S13	W04	06	19.2		03	9	9	E	HOLL	6682	
19	AFS	1245E	0152D	S16	E59	06	24.0		03	9	9	E	HOLL	6686	
19	ASR	1245E	0201D	N11	W85	06	13.1			9	9	E	HOLL	6671	
19	AFS	1247E	0152D	N16	E32	06	21.9		02	9	9	E	HOLL		
19	AFS	1247E	0152D	S04	W72	06	14.1		02	9	9	E	HOLL	6676	
19	ADF	1250E	0201D	S26	E63	06	24.4	1	19	9	9	E	HOLL		
19	AFS	1355E	0152D	S11	W17	06	18.3		02	9	9	E	HOLL	6682	
19	DSD	1413E	1900D	S15	W52	06	15.6		02	9	9	E	HOLL	6683	
19	SSB	1417		220	W05	06	21.1			0	0	E	HOLL		
19	ASR	1420E	1902D	N11	W90	06	12.8			9	9	E	HOLL	6671	
19	DSD	1633E	1935D	S14	W33	06	17.2		03	9	9	E	RAMY	6680	
19	APR	1700E	0143D	S18	W90	06	12.8	1		6	8	E	HOLL		
19	ADF	1718E	0152D	N12	E26	06	21.7	1	08	9	9	E	HOLL	6681	
19	DSD	1725E	0001D	N07	E20	06	21.2		02	9	9	E	PALE	6681	
19	ADF	1725E	0001D	N11	E23	06	21.4		09	9	9	E	PALE	6681	
19	AFS	1725E	0001D	N17	E30	06	22.0		03	9	9	E	PALE		
19	DSD	1725E	0001D	S15	E56	06	24.0		02	9	9	E	PALE	6686	
19	AFS	1725E	0001D	S16	E58	06	24.1		03	9	9	E	PALE	6686	
19	SSB	1733		238	W25	06	22.7			0	0	E	PALE		
19	AFS	1733E	0001D	S12	W20	06	18.2		03	9	9	E	PALE	6682	
19	AFS	1733E	0001D	S15	W33	06	17.2		02	9	9	E	PALE	6680	
19	DSD	1733E	0001D	S15	W35	06	17.1		02	9	9	E	PALE	6680	
19	DSD	1735E	0144D	N09	E19	06	21.1		03	9	9	E	HOLL	6681	
19	AFS	1935E	2233D	S14	W34	06	17.2		02	8	8	E	RAMY	6680	
19	ADF	2156E	0152D	N06	E36	06	22.6	1				C	VORO		
19	ADF	2156E	0152D	S26	E27	06	22.0	1				C	VORO		
19	APR	2200E	0150D	S26	E90	06	26.9	1				C	VORO		
19	AFS	2340E	0929D	N15	E23	06	21.7		03	9	9	E	LEAR	6681	
19	AFS	2341E	0929D	S11	W22	06	18.3		04	9	9	E	LEAR	6682	
19	AFS	2342E	0929D	S16	E56	06	24.2		04	9	9	E	LEAR	6686	
19	ASR	2343E	0201D	S18	W90	06	13.1			7	9	E	HOLL		
20	AFS	0140E	0929D	N15	E25	06	22.0		03	9	9	E	LEAR	6687	
20	AFS	0140E	0929D	S15	W37	06	17.3		02	9	9	E	LEAR	6680	
20	ADF	0530E	1630D	S15	W37	06	17.4	1	05	9	9	E	SVTO	6680	
20	SDF	0618E	1630D	N21	E12	06	21.2		05	0	0	E	SVTO		
20	APR	0710E	0952D	S06	W90	06	13.6	1		9	9	E	SVTO	6676	
20	AFS	1021E	2123D	N15	E18	06	21.8		02	9	9	E	RAMY	6687	
20	DSD	1024E	1549D	N10	E11	06	21.2		02	9	9	E	RAMY	6681	
20	AFS	1025E	2123D	S16	E47	06	24.0		03	9	9	E	RAMY	6686	
20	AFS	1029E	2123D	S11	W29	06	18.2		03	9	9	E	RAMY	6682	
20	ADF	1030E	1939D	S13	W42	06	17.3	2	05	9	9	E	RAMY	6680	
20	AFS	1030E	2123D	S13	W44	06	17.1		02	9	9	E	RAMY	6680	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
20	ASR	1033E	1543D	S15	E90	06 27.2			9	9	E	RAMY		
20	SSB	1045		278	W75	06 27.6			0	0	E	RAMY		
20	ADF	1105E	1206D	S10	W29	06 18.3					V	KHAR		
20	APR	1113E	1145D	N47	W90	06 12.9	1				V	KHAR		
20	ASR	1127E	1543D	S08	W90	06 13.7			9	9	E	RAMY	6676	
20	DSD	1630E	0422D	S16	W50	06 16.9		02	9	9	E	PALE	6680	
20	AFS	1630E	0502D	N16	E15	06 21.8		02	9	9	E	PALE	6687	
20	DSD	1630E	0502D	N23	E49	06 24.5		02	8	8	E	PALE	6685	
20	AFS	1630E	0502D	S12	W35	06 18.0		02	9	9	E	PALE	6682	
20	AFS	1630E	0502D	S13	W46	06 17.2		02	9	9	E	PALE	6680	
20	AFS	1630E	0502D	S15	E43	06 23.9		02	9	9	E	PALE	6686	
20	APR	1700E	0143D	S18	W90	06 13.8	1		6	8	E	HOLL		
20	AFS	1745E	0502D	S11	W34	06 18.2		02	9	9	E	PALE	6682	
20	SSB	1749		277	W77	06 27.8			0	0	E	PALE		213 W13
20	DSD	1945E	2123D	N10	E03	06 21.0		02	9	8	E	RAMY	6681	
20	DSD	2107E	0207D	N08	E05	06 21.2		05	9	9	E	HOLL	6681	
20	ADF	2116E	0207D	S13	W51	06 17.0	1	04	9	9	E	HOLL	6680	
20	SSB	2130		220	W22	06 22.4			0	0	E	HOLL		262 W64
21	AFS	0026E	0925D	S10	W37	06 18.2		04	9	9	E	LEAR	6682	
21	AFS	0059E	0207D	S28	W07	06 20.5		03	9	9	E	HOLL		
21	ASR	0422E	0502D	S08	E90	06 27.9			9	9	E	PALE		
21	ASR	0428E	1045D	S04	E90	06 27.9			9	9	E	SVTO		
21	ASR	0431E	0925D	S06	E90	06 27.9			9	9	E	LEAR		
21	DSD	0431E	0502D	S16	E78	06 27.1		03	9	9	E	PALE		
21	ADF	0448E	1200D	S15	W50	06 17.4	1	06	9	9	E	SVTO	6680	
21	AFS	0448E	1802D	S12	W39	06 18.3		02	9	9	E	SVTO	6682	
21	AFS	0518E	1802D	S28	W08	06 20.6		02	9	9	E	SVTO		
21	ADF	0534E	1802D	S25	E30	06 23.5	1	08	9	9	E	SVTO	6688	
21	BSL	0540E	0813D	S09	E90	06 28.0	1				C	ABST		
21	ADF	0548E	1802D	N09	E48	06 24.8	1	04	9	9	E	SVTO		
21	ASR	0550E	0631D	N15	E90	06 28.0			9	9	E	SVTO		
21	ADF	0807E	1802D	S11	E77	06 27.1	1	06	9	9	E	SVTO		
21	APR	0925E	1010D	S06	E90	06 28.1	1				V	KHAR		
21	ADF	1107E	1125D	S10	W44	06 18.1	1				V	KHAR		
21	DSD	1141E	1907D	S09	W46	06 18.0		03	9	9	E	RAMY	6682	
21	AFS	1155E	1907D	S28	W12	06 20.5		02	6	7	E	RAMY	6689	
21	DSD	1300E	2358D	N09	W05	06 21.2		03	9	9	E	HOLL	6681	
21	DSD	1300E	2358D	N23	E38	06 24.5		01	9	9	E	HOLL	6685	
21	SSB	1318		218	W29	06 23.0			0	0	E	HOLL		262 W73
21	AFS	1322E	1907D	S11	W43	06 18.3		02	6	6	E	RAMY	6682	
21	ASR	1324E	1346	S12	W83	06 15.3			9	9	E	RAMY	6677	
21	ASR	1327E	1600D	S14	W83	06 15.3			9	9	E	HOLL	6677	
21	ASR	1330E	1340	S15	W90	06 14.7			9	9	E	SVTO		
21	AFS	1500E	1907D	S14	W58	06 17.2		02	9	9	E	RAMY	6680	
21	ADF	1501E	1907D	S14	W62	06 16.9	1	04	9	9	E	RAMY	6680	
21	APR	1710E	0500D	S07	E90	06 28.4			9	9	E	PALE		
21	APR	1734E	1907D	S11	E90	06 28.5	2		9	9	E	RAMY		
21	AFS	1744E	0500D	N15	E03	06 22.0		05	9	9	E	PALE	6687	
21	AFS	1744E	0500D	S11	W47	06 18.2		04	9	9	E	PALE	6682	
21	ADF	1744E	0500D	S29	E26	06 23.8	1	07	9	9	E	PALE	6688	
21	ADF	1758E	0500D	N11	E45	06 25.1		03	9	9	E	PALE		
21	ADF	1758E	0500D	S13	E72	06 27.2		05	9	9	E	PALE	6690	
21	AFS	1758E	0500D	S31	W14	06 20.6		04	9	8	E	PALE	6689	
21	AFS	1906E	1907D	S13	E70	06 27.1		03	9	9	E	RAMY	6690	
21	SSB	2022		263	W75	06 27.6			0	0	E	PALE		216 W24
22	AFS	0006E	0930D	S28	W18	06 20.6		03	9	9	E	LEAR	6689	
22	AFS	0007E	0930D	S15	E90	06 28.8		02	9	9	E	LEAR	6687	
22	ASR	0009E	0930D	S09	E90	06 28.8			9	9	E	LEAR		
22	ASR	0042E	0209D	S09	E90	06 28.8			7	7	E	HOLL		
22	ASR	0420E	1810D	S06	E90	06 28.9			9	9	E	SVTO		
22	ADF	0421E	1810D	S25	E17	06 23.5	1	08	9	9	E	SVTO	6688	
22	APR	0820E	0850D	S06	E90	06 29.1	1				V	KHAR		
22	ASR	0835E	0916D	N15	W90	06 15.5			9	9	E	SVTO		
22	ADF	0912E	1030D	S10	W66	06 17.4	1				V	KHAR		
22	ADF	0920E	1030D	S30	E18	06 23.8	1				V	KHAR		
22	DSD	0920E	0935D	S28	W21	06 20.7		03	9	9	E	SVTO	6689	
22	AFS	1019E	1922D	S27	W23	06 20.6		02	9	9	E	RAMY	6689	
22	DSD	1020E	1922D	S10	W58	06 18.1		04	9	9	E	RAMY	6682	

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
22	AFS	1020E	1922D	S11	W53	06	18.4		02	9	9	E	RAMY	6682	
22	BSL	1022E	1042D	S15	W90	06	15.6	1				V	KHAR		
22	ADF	1022E	1922D	S11	W64	06	17.6	1	04	9	9	E	RAMY	6682	
22	DSD	1025E	1651D	S16	E18	06	23.8		02	9	9	E	RAMY	6686	
22	AFS	1026E	1337D	S27	E60	06	27.1		02	9	9	E	RAMY	6691	
22	ADF	1027E	1642	S12	E56	06	26.6	1	05	9	9	E	RAMY	6690	
22	ASR	1035E	1639D	S08	E83	06	28.7			9	9	E	RAMY		
22	APR	1035	1130D	S15	W90	06	15.6	2		9	9	E	SVTO		Flare Associated
22	DSD	1037E	1313D	S14	W71	06	17.1		02	9	9	E	RAMY	6680	Flare Associated
22	APR	1037E	1313D	S15	W90	06	15.6	2		9	9	E	RAMY	6680	Flare Associated
22	DSD	1205E	1210D	S14	W80	06	16.4	1				V	KHAR		
22	AFS	1250E	0209D	S29	W13	06	21.5		03	9	9	E	HOLL	6689	
22	AFS	1251E	0209D	S11	W43	06	19.3		02	9	9	E	HOLL	6682	
22	AFS	1303E	0209D	S16	E34	06	25.1		02	9	9	E	HOLL	6686	
22	ADF	1305E	0209D	S14	W59	06	18.1	1	08	9	9	E	HOLL	6680	
22	BSD	1312E	1337D	S11	W71	06	17.2		03	9	9	E	RAMY	6680	Flare Associated
22	ADF	1325E	2238D	S28	E13	06	23.6	1	04	9	9	E	HOLL	6688	
22	DSD	1354E	0208D	S22	E24	06	24.4		02	9	9	E	HOLL	6685	
22	ADF	1354E	1939D	S15	W67	06	17.5	1	05	9	9	E	HOLL	6682	
22	SSB	1410		182	W07	06	28.7			0	0	E	HOLL		
22	SDF	1411E	1334D	S38	E04	06	22.9		06	0	0	E	HOLL		
22	ASR	1425E	0208D	S08	E90	06	29.3			6	6	E	HOLL		
22	DSD	1600E	0208D	S13	W78	06	16.8		12	7	7	E	HOLL	6680	
22	APR	1600E	2345D	S36	W90	06	15.4			9	7	E	HOLL		
22	ADF	1739E	0500D	S28	W41	06	19.5		07	8	9	E	PALE	6678	
22	DSD	1811E	0500D	S12	W68	06	17.6		02	9	9	E	PALE	6682	
22	DSD	1811E	0500D	S13	W64	06	17.9		02	9	9	E	PALE	6682	
22	ASR	1811E	2212	S13	W90	06	16.0			9	9	E	PALE	6680	
22	AFS	1824E	0500D	N14	W03	06	22.5		03	9	9	E	PALE	6687	
22	SSB	1920		182	W13	06	29.0			0	0	E	PALE		
22	AFS	1939E	0208D	S12	W52	06	18.9		02	9	9	E	HOLL	6682	
22	ADF	2222E	0500D	N10	W19	06	21.5		06	7	7	E	PALE	6681	
22	ADF	2222E	0500D	N13	E31	06	25.3	1	11	9	9	E	PALE		
22	ADF	2222E	0500D	S14	E16	06	24.1		06	9	9	E	PALE	6686	
22	AFS	2338E	0208D	S17	E14	06	24.0		02	9	8	E	HOLL	6686	
23	DSD	0015E	0929D	N19	E20	06	24.5		02	9	9	E	LEAR	6685	
23	AFS	0015E	0929D	S11	W72	06	17.6		04	9	9	E	LEAR	6682	
23	ADF	0015E	0929D	S15	E55	06	27.2	1	04	9	9	E	LEAR	6690	
23	ASR	0031E	0500D	S21	E90	06	29.9			9	9	E	PALE		
23	ADF	0139E	0929D	S27	W46	06	19.5	1	04	9	9	E	LEAR	6678	
23	ADF	0140E	0258D	S22	W03	06	22.8	1				C	VORO		
23	APR	0151E	0251D	S05	E90	06	29.8	1				C	VORO		
23	APR	0151E	0251D	S33	W90	06	15.9	1				C	VORO		
23	ASR	0515E	0905D	S16	W83	06	16.9			9	9	E	SVTO	6680	Flare Associated
23	ADF	0906E	1753D	S04	E66	06	28.3	1	05	9	9	E	SVTO		
23	DSD	1315E	0110D	S16	W22	06	21.9		02	9	9	E	HOLL	6684	
23	AFS	1315E	0208D	S16	W22	06	21.9		01	8	8	E	HOLL	6684	
23	ASR	1320E	0208D	S12	W90	06	16.8			6	6	E	HOLL	6680	
23	SSB	1322		200	W37	06	23.5			0	0	E	HOLL		
23	DSD	1646E	1951D	S09	W79	06	17.8		02	9	9	E	RAMY	6682	
23	AFS	1647E	1951D	S28	W40	06	20.6		02	8	8	E	RAMY	6689	
23	AFS	1651E	1951D	S15	W23	06	22.0		02	8	8	E	RAMY	6684	
23	SDF	1753E	0626D	N09	W15	06	22.6		09	0	0	E	SVTO		
23	ASR	1800E	2310D	S14	W90	06	16.9			9	9	E	PALE	6680	
23	DSD	1815E	0458D	N23	E08	06	24.4		04	9	9	E	PALE	6685	
23	DSD	1815E	0458D	S10	W78	06	17.9		05	9	9	E	PALE	6682	
23	DSD	1815E	0458D	S15	W25	06	21.9		04	9	9	E	PALE	6684	
23	ADF	1822E	0458D	N12	E44	06	27.1		06	9	9	E	PALE	6690	
23	ADF	1822E	0458D	N13	E21	06	25.3		11	9	9	E	PALE		
23	ADF	1822E	0458D	N14	W27	06	21.7		06	9	9	E	PALE	6687	
23	APR	1857	1951D	S02	W85	06	17.4	2		9	9	E	RAMY	6682	Flare Associated
23	BSD	1858	1910D	S07	W83	06	17.6		07	9	9	E	HOLL	6682	Flare Associated
23	EPL	1912E	1946D	S04	W90	06	17.1			9	9	E	HOLL	6682	Flare Associated
23	ASR	1918E	2131D	N00	W90	06	17.1			9	9	E	PALE	6682	
24	AFS	0010E	0926D	N22	E06	06	24.5		01	9	9	E	LEAR	6685	
24	AFS	0011E	0926D	S25	E41	06	27.2		02	9	9	E	LEAR	6691	
24	AFS	0012E	0926D	S16	W28	06	21.9		01	9	9	E	LEAR	6684	
24	ADF	0013E	0926D	N14	W28	06	21.9	1	04	9	9	E	LEAR	6687	

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
24	ADF	0014E	0421	S05	E63	06 28.7	2	08	9	9	E	LEAR	6692	
24	SDF	0339E	0302D	N45	E69	06 29.9		31	0	0	E	LEAR		
24	ASR	0414E	0458D	N15	W90	06 17.4			9	9	E	PALE	6682	
24	SDF	0458E	2000D	N41	E54	06 28.6		23	0	0	E	PALE		
24	ADF	0847E	1750D	S03	E55	06 28.5	1	23	9	9	E	SVTO	6692	
24	ADF	0951E	1719D	N44	E39	06 27.6	2	30	9	9	E	SVTO		
24	AFS	1142E	2155D	N15	W35	06 21.8		02	9	9	E	RAMY	6687	
24	ASR	1147E	2155D	S12	W74	06 18.9			9	9	E	RAMY	6682	
24	ADF	1204E	2155D	S04	E54	06 28.5	2	11	9	9	E	RAMY	6692	
24	AFS	1205E	2155D	S07	E59	06 28.9		02	9	9	E	RAMY	6693	
24	SDF	1255E	1438D	N44	E79	07 1.1		40	0	0	E	HOLL		
24	SDF	1300E	1236D	N44	E38	06 27.7	3	43	0	0	E	RAMY		
24	AFS	1313E	0147D	N14	W35	06 21.9		02	9	9	E	HOLL	6687	
24	DSD	1315	0110D	S16	W22	06 22.9		02	9	9	E	HOLL	6684	
24	ADF	1328E	0147D	S05	E49	06 28.2	1	09	9	9	E	HOLL	6692	
24	DSD	1330E	2219D	S06	E59	06 29.0		02	9	9	E	HOLL	6693	
24	BSD	1355E	1409D	S14	W79	06 18.6		03	9	9	E	HOLL	6682	
24	DSD	1504E	1930D	N24	E01	06 24.7		03	9	9	E	HOLL	6685	
24	AFS	1630E	0045D	N16	W38	06 21.8		03	9	9	E	PALE	6687	
24	AFS	1630E	0502D	S06	E56	06 28.9		03	9	9	E	PALE	6693	
24	DSD	1630E	0502D	S08	E56	06 28.9		03	9	9	E	PALE	6693	
24	ASR	1630E	0502D	S16	W73	06 19.1			9	9	E	PALE	6682	
24	BSD	1654E	1748D	S14	W76	06 19.0		05	9	9	E	HOLL	6682	
24	BSD	1655E	1829D	S16	W73	06 19.2		06	9	9	E	PALE	6682	
24	AFS	1657E	0502D	N06	E54	06 28.7		03	9	9	E	PALE	6694	
24	SSB	1700		183	W35	07 1.3			0	0	E	PALE		153 W11
24	ASR	1700E	1827D	N03	E83	06 30.9			9	8	E	PALE		
24	ASR	1700	1726	S17	W90	06 17.9			9	9	E	SVTO	6682	
24	ADF	1718E	2155D	S25	W14	06 23.6	1	10	9	9	E	RAMY	6688	
24	SDF	1719E	1750D	N46	E71	06 30.6	1	31	9	9	E	SVTO		
24	ADF	1720E	2155D	S24	E31	06 27.1	1	05	9	9	E	RAMY	6691	
24	ADF	1723E	2155D	N08	E48	06 28.3	2	08	9	9	E	RAMY	6694	
24	DSD	1804E	2112D	N14	W40	06 21.7		04	9	9	E	PALE	6687	Flare Associated
24	ASR	1825E	0333D	S14	E90	07 1.6			9	9	E	PALE		
24	ADF	1939E	2225D	N04	E51	06 28.6	1	07	9	9	E	HOLL	6694	
24	BSD	2133E	0320D	S31	W80	06 18.6		04	9	9	E	PALE	6678	
24	ADF	2133E	0502D	S04	E47	06 28.4	1	15	9	9	E	PALE	6692	
24	SSB	2204		146	W02	06 28.3			0	0	E	HOLL		182 W38
25	ASR	0310E	0524D	S13	W89	06 18.4			9	9	E	LEAR	6682	
25	AFS	0510E	1755D	N06	E45	06 28.6		02	9	9	E	SVTO	6694	
25	AFS	0510E	1755D	N13	W46	06 21.7		02	9	9	E	SVTO	6687	
25	ASR	0523E	1755D	S14	W90	06 18.4			9	9	E	SVTO	6682	
25	ASR	0545E	0932D	S14	E90	07 2.0			9	9	E	SVTO		
25	APR	0545E	1755D	S11	E90	07 2.0	1		9	9	E	SVTO		
25	ADF	0604E	1755D	S30	E16	06 26.5	1	18	9	9	E	SVTO		
25	BSL	0740	0801D	S14	W90	06 18.5	1				P	BUCA		
25	ADF	0745E	1140D	N31	E62	06 30.2					V	ATHN		
25	APR	0752E	0757D	S11	W90	06 18.5					V	ATHN		
25	ASR	1126E	1911D	S11	W81	06 19.4			9	9	E	RAMY	6682	
25	ASR	1300E	1853D	S13	W90	06 18.7			8	8	E	HOLL	6682	
25	DSD	1302E	0112D	N24	W11	06 24.7		02	9	9	E	HOLL	6685	
25	DSD	1307E	0113D	S28	W68	06 20.2		02	9	8	E	HOLL	6689	
25	ADF	1317E	0153D	S04	E38	06 28.4	1	09	9	9	E	HOLL	6692	
25	SSB	1505		156	W21	06 29.9			0	0	E	SVTO		
25	AFS	1712E	0338D	S10	E37	06 28.5		03	9	9	E	PALE	6692	
25	AFS	1712E	0405D	N06	E40	06 28.7		02	9	9	E	PALE	6694	
25	AFS	1712E	0405D	N06	E40	06 28.7		02	9	9	E	PALE	6694	
25	ASR	1735E	2155D	S16	W90	06 18.9			9	9	E	PALE	6682	
25	DSD	1748E	0225D	N12	W57	06 21.4		02	9	9	E	PALE	6687	
25	DSD	1748E	0405D	N06	E40	06 28.7		04	9	9	E	PALE	6694	
25	ADF	1748E	0405D	N09	E37	06 28.5	1	08	9	9	E	PALE	6694	
25	SSB	1755		190	W57	07 3.6			0	0	E	PALE		177 W43 145 W11
25	APR	1755E	0353D	N07	E90	07 2.5			9	9	E	PALE		
25	DSD	1854E	0114D	N08	W61	06 21.2		03	9	9	E	HOLL	6681	
25	SSB	1855		158	W25	06 30.3			0	0	E	HOLL		184 W51
25	DSD	2039E	2159D	S05	E52	06 29.7		05	9	9	E	PALE		
25	AFS	2050E	0405D	S05	E27	06 27.9		02	9	9	E	PALE		
25	ADF	2125E	0128D	S10	E28	06 28.0	1				C	VORO		
25	ADF	2125E	0128D	S28	W37	06 23.0	1				C	VORO		

ACTIVE PROMINENCES AND FILAMENTS

123
Jun 91

JUNE 1991

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	0020E	0153D	N07	E45	06	29.4	1	10	9	9	E	HOLL	6694	
26	AFS	0100E	0107D	N06	E36	06	28.7		03	9	9	E	LEAR	6694	
26	SSB	0441		148	W19	06	29.8			0	0	E	SVTO		187 W58
26	ADF	0447E	1757D	S04	E28	06	28.3	1	07	9	9	E	SVTO	6692	
26	AFS	0535E	1431D	S16	E18	06	27.6		01	9	9	E	SVTO		
26	AFS	1108E	1956D	N04	E30	06	28.7		03	9	9	E	RAMY	6694	
26	AFS	1245E	0200D	N06	E28	06	28.6		03	9	9	E	HOLL	6694	
26	ADF	1248E	1956D	S30	W32	06	24.0	1	10	9	9	E	RAMY	6688	
26	APR	1255E	0037D	N28	E90	07	3.6	1		9	8	E	HOLL		
26	ASR	1355E	0200D	N11	E90	07	3.3			9	9	E	HOLL		
26	ADF	1401E	1757D	N03	E55	06	30.7	1	04	9	9	E	SVTO	6695	
26	AFS	1410E	0200D	S05	E17	06	27.9		02	8	8	E	HOLL	6697	
26	SSB	1425		152	W30	06	30.7			0	0	E	HOLL		181 W59
26	AFS	1625E	0455D	N05	E27	06	28.7		03	9	9	E	PALE	6694	
26	ASR	1625E	0455D	N13	E90	07	3.5			9	9	E	PALE		
26	SSB	1650		182	W62	07	4.0			0	0	E	PALE		144 W23 124 W03
26	ADF	1650E	0455D	N03	E31	06	29.0		05	9	9	E	PALE	6694	
26	DSD	1650E	0455D	N23	W30	06	24.4		03	9	9	E	PALE	6685	
26	ADF	1650E	0455D	S08	E21	06	28.3		07	9	9	E	PALE	6692	
26	AFS	1914E	0043D	S15	E00	06	26.8		01	9	9	E	HOLL	6690	
26	DSD	2045E	0455D	S03	E25	06	28.7		04	9	9	E	PALE	6693	
26	DSD	2045E	0455D	S14	E01	06	26.9		02	9	9	E	PALE	6690	
26	EPL	2108E	2145	S31	W90	06	19.8			9	9	E	HOLL	6678	
26	APR	2112E	0455D	S28	W90	06	19.8	2		9	9	E	PALE	6689	
26	ASR	2115E	0455D	N13	E90	07	3.7			9	9	E	PALE		
26	ADF	2207E	0159D	S25	W59	06	22.3	1				C	VORO		
26	ADF	2207E	0159D	S26	W07	06	26.4	1				C	VORO		
27	AFS	0418E	1753D	N05	E19	06	28.6		03	9	9	E	SVTO	6694	
27	ADF	0419E	1753D	N05	E49	06	30.8	1	04	9	9	E	SVTO	6695	
27	ADF	0505E	0827D	N20	W69	06	21.9	1	06	9	9	E	SVTO	6687	
27	DSD	0505E	0827D	N23	W36	06	24.4		06	9	9	E	SVTO	6685	
27	AFS	0833E	0855D	N04	E14	06	28.4		02	9	9	E	LEAR	6694	
27	AFS	0834E	0855D	S16	W45	06	23.9		02	9	9	E	LEAR	6684	
27	AFS	0835E	0855D	S06	E15	06	28.5		04	9	9	E	LEAR	6693	
27	AFS	1124E	1645D	N06	E16	06	28.7		02	7	7	E	RAMY	6694	
27	ADF	1218E	0152D	N03	E21	06	29.1	1	05	9	9	E	HOLL	6694	
27	AFS	1218E	0152D	S05	E16	06	28.7		03	9	9	E	HOLL	6693	
27	AFS	1221E	0152D	S15	W08	06	26.9		02	9	9	E	HOLL	6690	
27	ADF	1251E	2142D	S13	E52	07	1.4	1	06	9	9	E	RAMY		
27	ADF	1320E	1708D	N03	E45	06	30.9	1	06	9	9	E	RAMY	6695	
27	DSD	1950E	0044D	N03	E33	06	30.3		02	9	9	E	HOLL	6695	
27	DSD	2000E	0044D	S05	E09	06	28.5		04	9	9	E	HOLL	6693	
27	AFS	2000E	0152D	S15	E15	06	29.0		02	9	9	E	HOLL	6692	
27	ASR	2050E	0152D	N05	W90	06	21.1			7	7	E	HOLL	6681	
27	ADF	2208E	0138D	N30	E54	07	2.2	1				C	VORO		
28	APR	0040E	0152D	N08	E90	07	4.8	1		8	8	E	HOLL		
28	ADF	0135E	0416D	S06	E08	06	28.7		09	9	9	E	PALE	6693	
28	ADF	0135E	0416D	S09	E03	06	28.3		06	9	8	E	PALE	6692	
28	ADF	0135E	0416D	S29	W57	06	23.6		11	7	8	E	PALE	6688	
28	ADF	0141E	0416D	N02	E29	06	30.2	1	05	9	9	E	PALE	6695	
28	ADF	0141E	0416D	N15	W03	06	27.8		04	8	7	E	PALE		
28	ADF	0445E	1745D	N05	E12	06	29.1	1	07	9	9	E	SVTO	6694	
28	AFS	0450E	1745D	N02	E31	06	30.5		02	9	9	E	SVTO	6695	
28	ASR	0515E	1200D	N04	W90	06	21.5			9	9	E	SVTO	6681	
28	ASR	0516E	1201D	N14	W90	06	21.4			9	9	E	SVTO	6687	
28	DSD	0523E	1745D	S06	W08	06	27.6		02	9	9	E	SVTO	6697	
28	AFS	0549E	1745D	S06	E07	06	28.8		03	9	9	E	SVTO	6693	
28	ADF	0549E	1745D	S07	E07	06	28.8	1	07	9	9	E	SVTO	6693	
28	APR	0701	0730D	N30	E90	07	5.4	1				C	ABST		
28	ADF	0745E	0800D	S07	E15	06	29.4	1				V	KHAR		
28	APR	0745E	1040D	N32	E90	07	5.4	2				V	KHAR		
28	APR	0800E	1130D	N08	E90	07	5.1					V	ATHN		
28	APR	0800E	1130D	N28	E90	07	5.4					V	ATHN		
28	APR	0850E	0910D	N09	E90	07	5.1	1				V	KHAR		
28	DSD	0937E	0950	S07	W01	06	28.3	1				V	KHAR		
28	ADF	1017	1027	N06	E26	06	30.4	1				V	KHAR		
28	LPS	1021E	1212D	N30	E85	07	5.1			9	9	E	RAMY		

ACTIVE PROMINENCES AND FILAMENTS

JUNE 1991

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
28	LPS	1228E	2105D	N27	E90	07	5.5			8	8	E	HOLL		
28	LPS	1235E	1835D	N27	E87	07	5.3			9	9	E	RAMY	6703	
28	AFS	1310E	0138D	S05	E01	06	28.6		03	9	9	E	HOLL	6693	
28	ADF	1310E	0138D	S08	W01	06	28.5	1	10	9	9	E	HOLL	6693	
28	AFS	1351E	2151D	N02	E27	06	30.6		02	8	6	E	RAMY	6695	
28	ADF	1354E	2151D	S08	W06	06	28.1	1	05	9	9	E	RAMY	6693	
28	ASR	1457E	1520D	N36	E90	07	5.8			9	9	E	HOLL		
28	BSL	1502	1520D	N36	E90	07	5.8			9	9	E	HOLL		
28	BSL	1504E	1527D	N35	E90	07	5.8			9	9	E	RAMY		
28	SDF	1745E	0526D	N16	E55	07	2.9		03	0	0	E	SVTO		
28	SDF	1914E	1900D	S24	E33	07	1.3		47	0	0	E	PALE		
28	ASR	1914E	2028D	N30	E90	07	5.9			9	9	E	RAMY	6703	
28	ASR	1922E	1924D	N26	E90	07	5.8			9	9	E	PALE		
28	APR	1950E	0502D	N08	E90	07	5.6			9	7	E	PALE		
28	ADF	2005E	0502D	S10	E03	06	29.1	1	09	9	9	E	PALE	6693	
28	ADF	2005E	0502D	S24	W21	06	27.2		09	8	9	E	PALE	6691	
28	ADF	2005E	0502D	S32	W62	06	23.9		10	8	8	E	PALE	6688	
28	DSD	2011E	0502D	N07	W01	06	28.8		05	9	9	E	PALE	6694	
28	DSD	2011E	0502D	N12	E61	07	3.4		05	9	9	E	PALE	6699	
28	DSD	2011E	0502D	S04	E19	06	30.3		02	9	9	E	PALE	6695	
28	ASR	2103E	2137D	N31	E90	07	6.0			9	9	E	RAMY	6703	
28	ASR	2105E	2237D	N31	E90	07	6.0			9	9	E	HOLL	6703	
29	AFS	0001E	0906D	N07	W08	06	28.4		02	9	9	E	LEAR	6694	
29	AFS	0002E	0906D	N03	E18	06	30.3		01	9	9	E	LEAR	6695	
29	DSD	0003E	0906D	S05	E01	06	29.1		02	9	9	E	LEAR	6693	
29	AFS	0436E	1735D	S05	W06	06	28.7	1	04	9	9	E	SVTO	6693	
29	ADF	0438E	1735D	S07	W06	06	28.7	2	05	9	9	E	SVTO	6693	
29	SSB	0526		398	W00	06	21.9			0	0	E	SVTO		
29	SDF	0526E	1204D	S51	E43	07	2.9		33	0	0	E	SVTO		
29	APR	0635E	0700D	S52	E90	07	6.9					V	ATHN		
29	BSL	0639E	0703D	S53	E90	07	7.0	1				C	ABST		
29	AFS	1122E	2139D	S07	W09	06	28.8		03	9	9	E	RAMY	6693	
29	DSD	1128E	1430D	S05	W15	06	28.3		02	9	9	E	RAMY	6693	
29	ADF	1129E	2139D	S08	W07	06	28.9	1	05	9	9	E	RAMY	6693	
29	AFS	1330E	0043D	N07	W11	06	28.7		02	8	8	E	HOLL	6694	
29	AFS	1331E	0043D	S06	W12	06	28.7		02	8	8	E	HOLL	6693	
29	AFS	1333E	0043D	N11	E07	06	30.1		02	9	9	E	HOLL	6704	
29	MDP	1336E	1700D	N34	E90	07	6.7			8	8	E	HOLL		
29	ASR	1340E	0043D	N29	E90	07	6.6			6	6	E	HOLL		
29	AFS	1348E	1410D	S09	E64	07	4.4		02	9	9	E	SVTO		
29	ASR	1432E	1818	S15	E90	07	6.4			9	9	E	RAMY		
29	ASR	1530E	0043D	S15	E90	07	6.4			9	9	E	HOLL		
29	SSB	1547		118	W36	07	1.1			0	0	E	HOLL		
29	CAP	1700E	0043D	N34	E90	07	6.9		01	8	8	E	HOLL	6703	
29	ASR	1709E	0433D	S28	E90	07	6.7			9	9	E	PALE		
29	ASR	1709E	2126D	S15	E90	07	6.5			9	9	E	PALE		
29	APR	1713E	1731D	N28	E90	07	6.7			9	9	E	PALE	6703	
29	LPS	1730E	2117D	N27	E90	07	6.7			9	9	E	PALE	6703	
29	LPS	1734E	2115D	N28	E90	07	6.8			9	9	E	HOLL	6703	
29	DSD	1749E	0433D	N02	W15	06	28.6		02	9	9	E	PALE	6694	
29	AFS	1749E	0433D	S07	W14	06	28.7		06	9	8	E	PALE	6693	
29	ADF	1749E	0433D	S26	W33	06	27.2		07	9	7	E	PALE	6691	
29	DSD	1756E	0433D	N04	E06	06	30.2		03	9	9	E	PALE	6695	
29	ADF	1756E	0433D	S07	W30	06	27.5		06	9	8	E	PALE	6697	
29	ADF	1803E	0433D	N08	E55	07	3.9	1	06	9	9	E	PALE	6699	
29	DSD	1803E	0433D	N09	E51	07	3.6		02	9	9	E	PALE	6699	
29	DSD	1803E	0433D	S15	E59	07	4.2		02	9	9	E	PALE		
29	ASR	2117E	0214D	N28	E90	07	6.9			9	9	E	PALE	6703	
29	CAP	2122E	0433D	N35	E90	07	7.1		02	9	9	E	PALE	6703	
29	AFS	2358E	0043D	S34	E11	06	30.9		02	9	9	E	HOLL		
30	AFS	0000E	0043D	S12	E59	07	4.4		02	9	9	E	HOLL		
30	AFS	0114E	0410D	N09	E54	07	4.1		02	9	9	E	LEAR	6699	
30	AFS	0114E	0410D	N18	E54	07	4.2		02	9	9	E	LEAR	6701	
30	EPL	0317E	0400D	N36	E90	07	7.4			9	9	E	PALE	6703	
30	ASR	0426E	0433D	N11	E90	07	6.9			9	9	E	PALE	6707	
30	SDF	0453E	0955D	N53	E51	07	4.6		16	0	0	E	SVTO		
30	SDF	0453E	1016D	N53	E53	07	4.7		15	0	0	E	SVTO		
30	CAP	0801E	1738D	N36	E89	07	7.5		02	9	9	E	SVTO	6703	

ACTIVE PROMINENCES AND FILAMENTS

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Jun 91

JUNE 1991

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
30	ASR	0802E	1738D	N31	E90	07	7.4			9	9	E	SVTO	6703	
30	ASR	0803E	1738D	N22	E90	07	7.2			9	9	E	SVTO		
30	AFS	0804E	1738D	N11	W03	06	30.1			9	9	E	SVTO	6704	
30	AFS	0805E	1738D	N50	E12	07	1.3	2	02	9	9	E	SVTO	6699	
30	ADF	0806E	1738D	N10	E45	07	3.7	2	04	9	9	E	SVTO	6699	
30	APR	0835E	0905D	N36	E90	07	7.6	1				V	KHAR		
30	ADF	0925E	0945D	N06	E70	07	5.6	1				V	KHAR		
30	ASR	1235E	1519	N19	E90	07	7.4			9	9	E	RAMY		
30	ASR	1235E	1519	N28	E90	07	7.5			9	9	E	RAMY		
30	SDF	1417E	1529D	N20	W35	06	27.9		12	0	0	E	HOLL		
30	AFS	1422E	0052D	S08	W26	06	28.6		02	8	8	E	HOLL	6693	
30	DSD	1422E	1940D	S04	W31	06	28.3		02	9	9	E	HOLL	6693	
30	AFS	1432E	2142D	N02	E02	06	30.7		01	9	9	E	RAMY	6695	
30	SSB	1434		452	W23	06	26.6			0	0	E	RAMY		
30	DSD	1440E	1940D	N03	W04	06	30.3		03	9	9	E	HOLL	6695	
30	AFS	1443E	0052D	N10	E46	07	4.1		02	9	9	E	HOLL	6699	
30	ASR	1455E	0052D	N22	E87	07	7.3			9	9	E	HOLL		
30	ASR	1455E	0052D	N33	E90	07	7.8			9	9	E	HOLL	6703	
30	CAP	1455E	0052D	N35	E90	07	7.8		02	9	9	E	HOLL	6703	
30	AFS	1503E	0052D	S10	E50	07	4.4		02	9	9	E	HOLL	6706	
30	AFS	1507E	2142D	S11	E50	07	4.4		02	9	9	E	RAMY	6706	
30	DSD	1530	1903D	N13	E46	07	4.1		04	9	9	E	RAMY	6699	Flare Associated
30	DSD	1626E	2014D	N13	E45	07	4.1		04	9	9	E	PALE	6699	
30	AFS	1626E	2014D	S07	W28	06	28.6		03	9	9	E	PALE	6693	
30	AFS	1626E	2014D	S11	E48	07	4.3		03	9	9	E	PALE	6706	
30	AFS	1631E	2014D	N23	E03	06	30.9		02	9	9	E	PALE		
30	ASR	1631E	2014D	N33	E90	07	7.8			9	9	E	PALE	6703	
30	AFS	1647E	2142D	N08	W27	06	28.7		03	9	9	E	RAMY	6694	
30	AFS	1649E	2142D	S06	W27	06	28.7		02	9	9	E	RAMY	6693	
30	AFS	1700E	0052D	N23	E02	06	30.9		02	9	8	E	HOLL		
30	SSB	1705		430	W02	06	28.5			0	0	E	HOLL		
30	DSD	1711E	2142D	N06	W01	06	30.6		03	9	9	E	RAMY	6695	
30	AFS	1715E	2142D	N23	E01	06	30.8		02	6	6	E	RAMY	6708	
30	AFS	1722E	2142D	N14	E73	07	6.2		02	7	7	E	RAMY	6709	
30	AFS	1755E	2014D	N17	E71	07	6.1		02	9	9	E	PALE		
30	BSD	1755E	2014D	N23	E77	07	6.7		08	9	9	E	PALE		
30	DSD	1759E	2014D	N03	W03	06	30.5		03	9	9	E	PALE	6695	
30	DSD	1759E	2014D	S12	E85	07	7.1		03	9	9	E	PALE	6707	
30	SSB	1813		451	W24	06	26.8			0	0	E	PALE		
30	ASR	1930E	2142D	N29	E90	07	7.9			9	9	E	RAMY	6703	
30	ASR	1931E	2142D	N19	E88	07	7.5			9	9	E	RAMY		
30	DSD	1945E	0052D	S33	E00	06	30.8			9	9	E	HOLL		
30	AFS	2345E	0931D	S08	W30	06	28.7		03	9	9	E	LEAR	6693	
30	DSD	2346E	0931D	N11	E35	07	3.6		02	9	9	E	LEAR	6699	

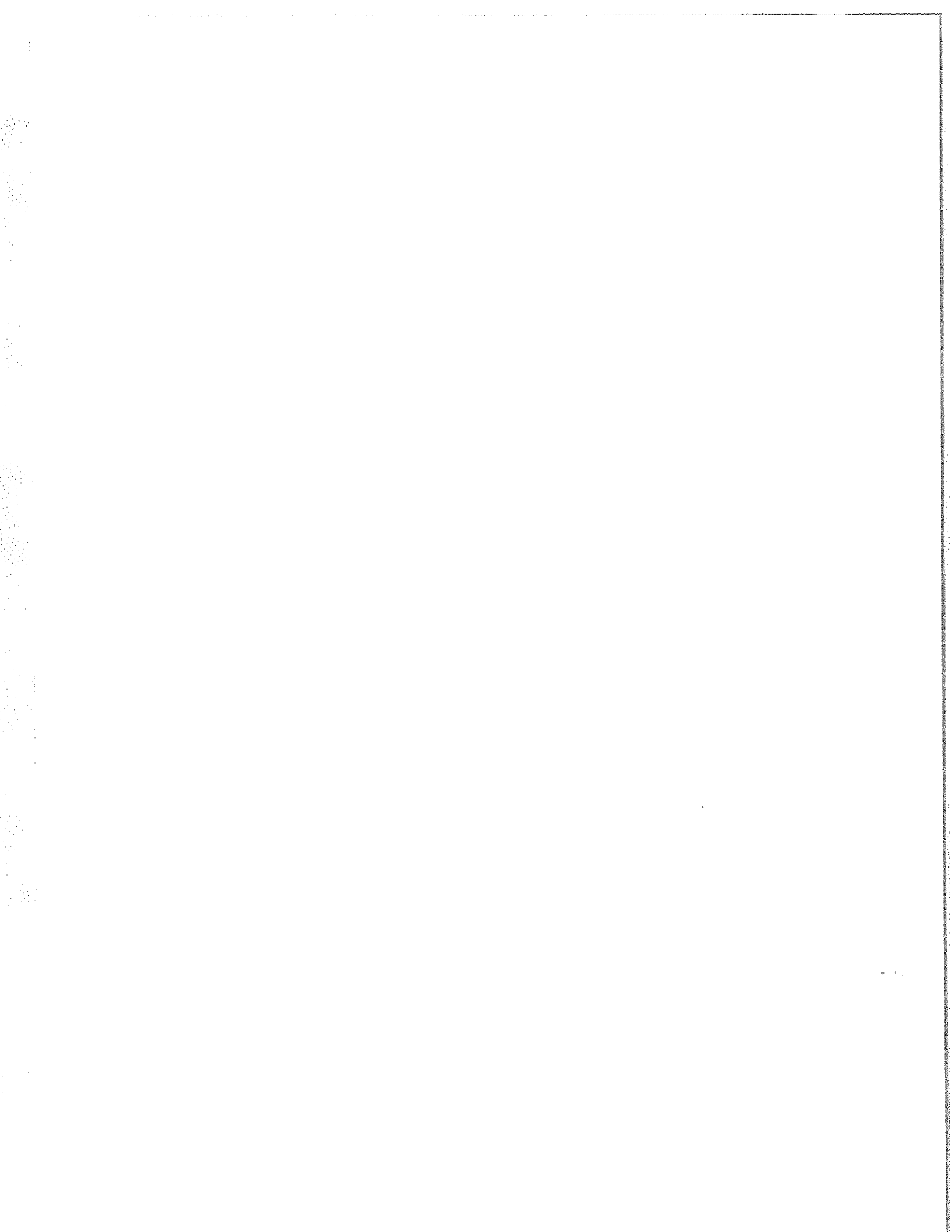
ADF = Active Dark Filament BSL = Bright Surge on Limb LPS = Loops
 AFS = Arch Filament System CAP = CAP Prominence (Tandberg-Hanssen) MDP = Mound Prominence
 APR = Active Prominence CRN = Coronal Rain SDF = Sudden Disappearing Filament
 ASR = Active Surge Region DSD = Dark Surge on Disk SPY = Spray
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



C O N T E N T S

Comprehensive Reports

MISCELLANEOUS DATA

Number 568 Part II

Page

SOLAR PROTON EVENTS (SPEs) from GOES satellites128-131
(**See note about SPE definition at end of list -- caution must be
exercised when using these data. Please understand that SPEs
occurring during another SPE will be counted as one continuous
event.**)

NOAA SPACE ENVIRONMENT SERVICES CENTER

Solar Proton Events Affecting the Earth Environment

Preliminary Listing

PARTICLE EVENT			ASSOCIATED FLARE AND ACTIVE REGION			
Start (Day/UT)	Maximum Proton Flux (pfu @ >10 MeV)		Maximum Importance (Day/UT)	Importance (X ray/Opt.)	Location	Region # (SESC)
1976						
Apr 30/2120	May 01/1700	12	Apr 30/2114	X2/2B	S09W47	700
1977						
Sep 19/1430	Sep 19/2130	200	Sep 19/1054	X2/3B	N08W58	889
Nov 22/1400	Nov 22/1800	160	Nov 22/1006	X1/2N	N24W38	939
1978						
Feb 13/0930	Feb 14/1000	850	Feb 13/0255	M7/0B	N22W13	1001
Apr 11/1530	Apr 11/1630	65	Apr 11/1353	X2/2B	N19W54	1057
Apr 29/0445	Apr 30/2000	1,000	Apr 28/1306	X5/4B	N22E41	1092
May 07/0420	May 07/0420	100	May 07/0330	X2/2B	N22W64	1095
Jun 02/0730	Jun 02/0935	19	May 31/1009	M5/2B	N23W50	1129
Jun 24/0900	Jun 25/0230	25	Jun 22/1709	M2/3B	N19E18	1164
Jul 13/0300	Jul 13/1000	20				
Sep 23/1035	Sep 24/0400	2,200	Sep 23/1023	X1/3B	N35W50	1294
Nov 10/2130	Nov 10/2140	38	Nov 10/0042	M1/2N	N17E02	1385
1979						
Feb 17/2020	Feb 17/2205	31	Feb 16/0200	X2/2B	N15E48	1574
Apr 03/1600	Apr 03/2310	45				
Jun 06/1850	Jun 07/0005	950	Jun 05/0529	X2/1N	N20E16	1781
Jul 07/0015	Jul 07/1010	50				
Aug 19/0850	Aug 21/0740	500	Aug 18/1416	X6/1B	N10E90	1943
Sep 15/1500	Sep 16/1200	60	Sep 14/0802	X2/	N10E90	1994
Nov 16/0430	Nov 16/1300	75	Nov 15/1639	M1/0B	N34W25	2110
1980						
Feb 06/1340	Feb 06/1850	12				
Jul 17/2300	Jul 19/1930	100	Jul 17/0603	M3/1B	S12E06	2562
1981						
Mar 30/0900	Mar 30/2115	30	Mar 30/0049	M3/2N	N13W74	2993
Apr 10/1745	Apr 11/1400	50	Apr 10/1655	X2/3B	N09W40	3025
Apr 24/1515	Apr 24/2330	160	Apr 24/1400	X5/2B	N18W50	3049
May 09/1200	May 10/2130	150	May 08/2252	M7/2B	N09E37	3099

Solar Proton Events Affecting the Earth Environment -continued

PARTICLE EVENT			ASSOCIATED FLARE AND ACTIVE REGION			
Start (Day/UT)	Maximum Proton Flux (pfu @ >10 MeV)		Maximum (Day/UT)	Importance (X ray/Opt.)	Location	Region # (SESC)
May 15/0300	May 16/1950	130	May 13/0425	X1/3B	N11E58	3106
Jul 20/1430	Jul 20/1825	100	Jul 20/1329	M5/1B	S26W75	3204
Jul 25/0600	Jul 25/1320	18				
Aug 10/0115	Aug/10 0435	57	Aug 07/1916	M4/2B	S10E24	3257
Oct 08/1235	Oct 13/2247	2,000	Oct 07/2308	X3/1B	S19E88	3390
Dec 10/0545	Dec 11/0900	65	Dec 09/1854	M5/3B	N12W16	3496
1982						
Jan 31/0055	Jan 31/1630	830	Jan 30/2358	X1/3B	S13E19	3576
Jun 06/0245	Jun 06/0245	10	Jun 03/1146	X8/2B	S09E72	3763
Jun 09/0040	Jun 09/0510	30	Jun 06/1637	X12/3B	S11E26	3763
Jul 11/0700	Jul 13/1615	2,900	Jul 09/0742	X9/3B	N17E73	3804
Jul 22/2030	Jul 23/0220	240	Jul 22/1734	M4/0F	N29W86	3804
Sep 05/2205	Sep 06/0100	66	Sep 04/0400	M4/3N	N11E30	3886
Nov 22/1940	Nov 22/2140	40	Nov 22/1828	M7/1N	S11W43	3994
Nov 26/0605	Nov 26/1500	25	Nov 26/0253	X4/2B	S11W87	3994
Dec 08/0010	Dec 08/1000	1,000	Dec 07/2354	X2/0B	S14W81	4007
Dec 17/1845	Dec 18/0945	130	Dec 15/0202	X12/2B	S10E24	4026
Dec 19/1920	Dec 20/0515	85	Dec 19/1624	M9/2B	N10W75	4022
Dec 27/0600	Dec 27/1345	190	Dec 25/0752	X2/1B	S14E31	4033
1983						
Feb 03/1200	Feb 04/1620	340	Feb 03/0619	X4/3B	S19W08	4077
Jun 15/0435	Jun 15/1800	18	Jun 14		S09W90	4201
1984						
Feb 16/0915	Feb 16/1005	660	Feb 16		S12W90	4408
Feb 19/1310	Feb 21/1415	55	Feb 17/2301	X2/2B	N16E82	4421
Mar 13/1440	Mar 13/1450	10				
Mar 14/0405	Mar 14/0505	100	Mar 14/0334	M2/2B	S12W42	4433
Apr 25/1330	Apr 26/1420	2,500	Apr 25/0005	X13/3B	S12E43	4474
May 24/1045	May 24/1140	31	May 22/1503	M6/2B	S09E24	4492
May 31/1315	May 31/1415	15	May 31/1142	M1	S09W90	4492
1985						
Jan 22/0415	Jan 22/0550	14	Jan 21/2350	X4/2B	S08W38	4617
Apr 25/1430	Apr 26/0600	160	Apr 24/0935	X1/3B	N06E27	4647
Jul 09/0235	Jul 09/0325	140	Jul 09/0204	M2/1B	S16W36	4671
1986						
Feb 06/0925	Feb 07/1730	130	Feb 06/0625	X1/3B	S04W06	4711
Feb 14/1155	Feb 15/0400	130	Feb 14/0929	M6/1B	N01W76	4713
Mar 06/1835	Mar 06/1930	21	Mar 06/1703	C4/1F	N02E01	4717
May 04/1255	May 04/1320	16	May 04/1007	M1	N06W90	4717

Solar Proton Events Affecting the Earth Environment -continued

PARTICLE EVENT			ASSOCIATED FLARE AND ACTIVE REGION			
Start (Day/UT)	Maximum Proton Flux (pfu @ >10 MeV)		Maximum Importance (Day/UT) (X ray/Opt.)	Location	Region # (SESC)	
1987						
Nov 08/0200	Nov 08/0940	120	Nov 07/2014	M1	N31W90	4875
1988						
Jan 02/2325	Jan 03/0835	92	Jan 02/2145	X1/3B	S34W18	4912
Mar 25/2225	Mar 25/2330	58	Mar 25/2145	EPL	N22W90	4965
Jun 30/1055	Jun 30/1140	21	Jun 30/0906	M9/2B	S16E22	5060
Aug 26/0000	Aug 26/0045	42	Aug 23/1804	M2/EPL	N24E90	5125
Oct 12/0920	Oct 12/0930	12	Oct 12/0511	X2/2N	S20W66	5175
Nov 08/2225	Nov 09/0635	13	Nov 07/1105	M3/1N	S17W47	5212
Nov 14/0130	Nov 14/0235	13	Nov 13/2309	M3/1N	S23W27	5227
Dec 17/0610	Dec 17/0855	18	Dec 15/0505	X1/1N	N27E59	5278
Dec 17/2000	Dec 18/0150	29	Dec 16/0841	X4/1B	N26E37	5278
1989						
Jan 04/2305	Jan 05/0130	28	Jan 04/1753	M4/1N	S20W60	5303
Mar 08/1735	Mar 13/0645	3,500	Mar 06/1405	X15/3B	N35E69	5395
Mar 17/1855	Mar 18/0920	2,000	Mar 17/1744	X6/2B	N33W60	5395
Mar 23/2040	Mar 24/0110	53	Mar 23/1948	X1/3B	N18W28	5409
Apr 11/1435	Apr 12/0125	450	Apr 09/0105	X3/4B	N35E29	5441
May 05/0905	May 05/1000	27	May 04/1115	M5/2N	S20W36	5464
May 06/0235	May 06/1045	110	May 05/0737	X2/3B	N30E01	5470
May 23/1135	May 23/1350	68				
May 24/0730	May 24/0905	15	May 22/0037	M5/2B	S21E16	5497
Jun 18/1650	Jun 18/1910	18	Jun 18/1447	C4/0F	N12W31	5534
Jun 30/0655	Jun 30/0710	17	Jun 29/2127	M3/2B	N26W60	5555
Jul 01/0655	Jul 01/0720	17				
Jul 25/0900	Jul 25/1225	54	Jul 25/0844	X2/2N	N25W84	5603
Aug 12/1600	Aug 13/0710	9,200	Aug 12/1427	X2/2B	S16W37	5629
Sep 04/0120	Sep 04/0510	44	Sep 03/1432	X1/1B	S18E16	5669
Sep 12/1935	Sep 13/0825	57	Sep 12/0814	M5/EPL	S18W79	5669
Sep 29/1205	Sep 30/0210	4,500	Sep 29/1133	X9/EPL	S26W90	5698
Oct 06/0050	Oct 06/0825	22				
Oct 19/1305	Oct 20/1600	40,000	Oct 19/1258	X13/4B	S27E10	5747
Nov 09/0240	Nov 09/0610	43				
Nov 15/0735	Nov 15/0910	71	Nov 15/0659	X3/3B	N11W26	5786
Nov 27/2000	Nov 28/1105	380	Nov 25/2355	X1/2N	N30E05	5800
Nov 30/1345	Dec 01/1340	7,300	Nov 30/1229	X2/3B	N26W59	5800
1990						
Mar 19/0705	Mar 19/2315	950	Mar 19/0508	X1/2B	N31W43	5969
Mar 29/0915	Mar 29/1005	16	Mar 28/0751	M4/2N	S04W37	5988
Apr 07/2240	Apr 08/1330	18	Apr 04/1338	M7/0N	N22E72	6007

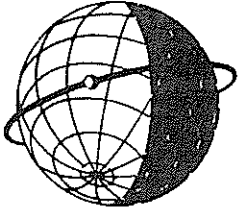
Solar Proton Events Affecting the Earth Environment -continued

PARTICLE EVENT			ASSOCIATED FLARE AND ACTIVE REGION			
Start (Day/UT)	Maximum Proton Flux (pfu @ >10 MeV)		Maximum (Day/UT)	Importance (X ray/Opt.)	Location	Region # (SESC)
Apr 11/2120	Apr 11/2130	13				
Apr 17/0500	Apr 17/0655	12	Apr 15/0302	X1/2B	N32E39	6022
Apr 28/1005	Apr 28/1735	150				
May 21/2355	May 22/0750	410	May 21/2219	X5/2B	N35W36	6063
May 24/2125	May 25/0115	180	May 24/2051	X9/1B	N33W78	6063
May 28/0715	May 29/0100	45				
Jun 12/1140	Jun 12/1700	79	Jun 12/0541	M6/2B	N10W33	6089
Jul 26/1720	Jul 26/2315	21				
Aug 01/0005	Aug 01/2015	230	Jul 30/0736	M4/2B	N20E45	6180
1991						
Jan 31/1130	Jan 31/1620	240	Jan 31/0230	X1/2B	S17W35	6469
Feb 25/1210	Feb 25/1305	13	Feb 25/0819	X1/2N	S16W80	6497
Mar 23/0820	Mar 24/0350	43,000	Mar 22/2247	X9/3B	S26E28	6555
Mar 29/2120	Mar 30/0330	20				
Apr 03/0815	Apr 04/1000	52	Apr 02/2327	M6/3B	N14W00	6562
May 13/0300	May 13/0910	350	May 13/0144	M8	S09W90	6615
May 31/1225	Jun 01/0445	22				
Jun 04/0820	Jun 11/1420	3,000	Jun 04/0352	X12/3B	N30E70	6659
Jun 14/2340	Jun 15/1950	1,400	Jun 15/0821	X12/3B	N33W69	6659
Jun 30/0755	Jul 02/1010	110	Jun 28/0626	M6	N30E85	6703
Jul 07/0455	Jul 08/1645	2,300	Jul 07/0223	X1/2B	N26E03	6703
Jul 11/0240	Jul 11/0450	30	Jul 10/1228	M3/2N	S22E34	6718
Jul 11/2255	Jul 12/0205	14				
Aug 26/1740	Aug 27/1830	240	Aug 25/0115	X2/2B	N25E64	6810
Oct 01/1740	Oct 01/1810	12	Sep 29/1533	M7/4B	S21E32	6853
Oct 28/1300	Oct 28/1440	40	Oct 27/0548	X6/3B	S13E15	6891
Oct 30/0745	Oct 30/0810	94	Oct 30/0634	X2/3B	S08W25	6891

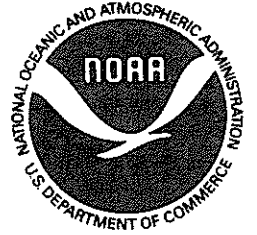
Please Note:

Proton fluxes are integral 5-minute averages for energies > 10 MeV, given in *Particle Flux Units* (pfu), measured at Geosynchronous orbit: 1 pfu = 1 p/sq. cm-s-sr. SESC defines the *start* of a proton event to be the first of 3 consecutive data points with fluxes greater than or equal to 10 pfu. The *end* of an event is the last time the flux was greater than or equal to 10 pfu. This definition, motivated by SESC customer needs, allows multiple proton flares and/or interplanetary shock proton increases to occur within one SESC proton event. Additional data may be necessary to more completely resolve any individual proton event.

Different detectors, onboard different spacecraft, have taken the data since 1976. These proton data were processed using various algorithms. To date, no attempt has been made to cross-normalize the resulting proton fluxes.



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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."