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Data for December 1990

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

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H α SOLAR FLARES

DECEMBER 1990

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)		
0001	LEAR	01	0414	0414	0420	N33	E58	6390	12	5.8	6	SF	3	E		17			
0002	TACH	01	0704	0713	0714	S04	W90		11	24.7	10	SB	1	C	0713	117		D	
		01	1047		1052			No Flare Patrol											
		01	1057		1111			No Flare Patrol											
		01	1249		1258			No Flare Patrol											
0003	RAMY	01	1405	1412	1432	N14	E11	6383	12	2.4	27	SF C	1.7	3	E		11		
		01	1532		1537			No Flare Patrol											
0004	RAMY	01	1555	1555	1601	N15	E69	6398	12	6.9	6	SF		3	E		26		
0005	RAMY	01	1645	1649	1700	S08	W07	6388	12	1.2	15	SF C	1.7	3	E		35	F	
0006		01	17029	1713	1721	N19	E70	6399	12	7.0	19	SF					28	F	
	PALE	01	1702	1713	1721	N20	E70	6399	12	7.1	19	SF	3	E			31		
	RAMY	01	1710	1713	1721	N18	E69	6399	12	7.0	11	SF	3	E			21	F	
	PALE	01	1711	1713	1721	N20	E70	6399	12	7.1	10	SF	3	E			31		
0007	RAMY	01	1706	1708	1745	S08	W06	6388	12	1.3	39	SF C	1.8	3	E		22	F	
0008	RAMY	01	1734	1735	1741	N22	E70	6399	12	7.1	7	SF		3	E		13		
0009		01	1741	1742	1754	N34	E52	6390	12	5.9	13	SF C	1.5				34	F	
	PALE	01	1741	1742	1752	N35	E53	6390	12	6.0	11	SF C	1.5	3	E		35		
	RAMY	01	1741	1742	1755	N34	E50	6390	12	5.7	14	SF C	1.5	3	E		32	F	
0010	PALE	01	1924	1924	1945	N36	E53	6390	12	6.1	21	SF		3	E		10		
0011		02	00312	0044*	0157	S08	W11	6388	12	1.2	86	1N C	4.1				131	2.0	EFU
	LEAR	02	0031	0048	0143	S08	W11	6388	12	1.2	72	1F C	4.1	3	E		106		UF
	PALE	02	0033	0044	0126	S08	W09	6388	12	1.3	53	SF		3	E		55		UF
	WATU	02	0104E	0104	0229	S09	W12	6388	12	1.1	85D	SN		P	0104	110	1.2		
	PEKG	02	0136E	0136U	0210	S08	W12	6388	12	1.2	34D	1N		P	0136	252	2.7	E	
0012	LEAR	02	0829	0830	0842	S22	E10	6393	12	3.1	13	SF C	2.0	3	E		38		
		02	1034		1333			No Flare Patrol											
		02	1438		1447			No Flare Patrol											
0013		02	1704*	1704*	1714	S05	W50	6379	11	29.1	10	SF					14		
	RAMY	02	1704	1704	1709	S05	W49	6379	11	29.1	5	SF		3	E		15		
	RAMY	02	1714	1716	1719	S05	W50	6379	11	29.1	5	SF		3	E		13		
0014	RAMY	02	1754	1756	1803	S05	W50	6379	11	29.1	9	SF		3	E		17		
0015	HOLL	02	2023	2024	2031	N14	W09	6383	12	2.2	8	SF		3	E		19		
0016	HOLL	02	2243	2248	2253	N10	E71	6397	12	8.3	10	SF		2	E		31		
0017	PALE	02	2342	2343	2346	S07	W49	6379	11	29.4	4	SF		3	E		16		
0018	LEAR	03	0227	0227	0230	N10	E76	6397	12	8.8	3	SF		3	E		19		
0019		03	02504	0254*	0326	N09	E11	6391	12	3.9	36	SN					47	0.9	D
	PEKG	03	0250	0305	0330	N09	E11	6391	12	3.9	40	SN		P	0305	84	0.9	D	
	LEAR	03	0254	0254	0322	N09	E11	6391	12	3.9	28	SF		3	E		10		
0020	KHAR	03	1034		1045D	S33	E88		12	10.4	11D	SF		P				H	
		03	1046		1411			No Flare Patrol											
0021	HOLL	03	1651E	1651U	1658	N20	E57	6395	12	8.1	7D	SF C	1.6	2	E		13		
0022		03	1825	18261	1840	N22	E44	6399	12	7.1	15	SF C	1.7				41		
	HOLL	03	1825	1826	1849	N22	E45	6399	12	7.2	24	SF C	1.7	3	E		57		
	PALE	03	1825	1827	1831	N22	E44	6399	12	7.1	6	SF C	1.7	3	E		25		

Ha SOLAR FLARES

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Dec 90

DECEMBER 1990

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)		
0023	HOLL	03	1827	1831	1903	S06	W63	6379	11	29.1	36	SF	3	E		31		F	
0024		03	1843	1845*	1912	S21	W58	6396	11	29.4	29	SF	C 2.3			32		K	
	HOLL	03	1843	1845	1920	S21	W58	6396	11	29.4	37	SF	C 2.3	3	E	42			
	HOLL	03	1843	1855	1920	S21	W58	6396	11	29.4	37	SN			E	35		K	
	PALE	03	1844	1849	1903	S22	W58	6396	11	29.4	19	SF		3	E	31			
	RAMY	03	1844	1850	1904	S21	W56	6396	11	29.6	20	SF		2	E	22			
0025		03	1918	1922	1948	N11	E64	6397	12	8.6	30	SN	M 1.0			61		FK	
	HOLL	03	1918	1923	1952	N12	E67	6397	12	8.8	34	SB	M 1.0		E	67		K	
	HOLL	03	1918	1930	1952	N12	E67	6397	12	8.8	34	SF		3	E	84		F	
	RAMY	03	1920	1922	1944	N11	E66	6397	12	8.8	24	SN	M 1.0	3	E	63			
	PALE	03	1925	1931	1943	N10	E55	6397	12	7.9	18	SF		3	E	31			
0026		03	1954*	2011	2031	N09	E65	6397	12	8.7	37	SF	C 3.9			46		FK	
	HOLL	03	1954	2019	2042	N08	E65	6397	12	8.7	48	SF	C 3.9	3	E	85		F	
	PALE	03	2005	2011	2027	N12	E66	6397	12	8.8	22	SF		3	E	32			
	RAMY	03	2007	2011	2027	N08	E64	6397	12	8.6	20	SF			E	32		K	
	RAMY	03	2007	2020	2027	N08	E64	6397	12	8.6	20	SF		3	E	36		F	
0027	HOLL	03	2027	2028	2032	S06	W63	6379	11	29.2	5	SF		3	E	10		F	
0028	HOLL	03	2034	2038	2058	N09	E01	6391	12	3.9	24	SF		3	E	19		F	
0029	HOLL	03	2149	2149	2159	N12	E67	6397	12	8.9	10	SF	C 1.3	3	E	19		F	
0030	HOLL	03	2230	2231	2235	N11	E63	6397	12	8.7	5	SF		3	E	17		F	
0031	HOLL	03	2251	2251	2305	N08	E58	6397	12	8.3	14	SF	C 1.7	3	E	13		F	
0032		04	0038	0039	0047	S21	W11	6393	12	3.2	9	SF	C 4.4			112	3.1	EI	
	VORO	04	0038	0043	0057	S20	W12	6393	12	3.1	19	1F		2	C	0043	278	3.1	EI
	PALE	04	0039	0039	0043	S21	W11	6393	12	3.2	4	SF	C 4.4	3	E	26			
	LEAR	04	0039	0039	0051	S21	W10	6393	12	3.3	12	SF	C 4.4	3	E	33			
0033		04	0158*	0202*	0244	N09	E57	6397	12	8.3	46	1F	M 6.6			120	2.4	DEFIJ	
	LEAR	04	0158	0202	0246	N08	E56	6397	12	8.3	48	1F	M 6.6	3	E	156		F	
	MITK	04	0158	0202	0253	N11	E61	6397	12	8.7	55	1N			C	0202	200	4.3	E
	VORO	04	0158	0203	0216	N10	E61	6397	12	8.7	18	1F		2	C	0203	116	2.5	EIJ
	PALE	04	0200	0204	0249	N09	E56	6397	12	8.3	49	SF	M 6.6	3	E	98		F	
	VORO	04	0202	0203	0254	N09	E54	6397	12	8.1	52	SF		2	C	0203	81	1.4	DIJ
	WATU	04	0213	0215	0248	N11	E54	6397	12	8.1	35	SF			P	0215	20	0.4	
	PEKG	04	0215	0220	0245	N08	E58	6397	12	8.4	30	1B			P	0220	168	3.2	E
0034		04	0245	0251	0257	S22	W61	6396	11	29.5	12	1F				60	1.4	DJ	
	VORO	04	0245	0251	0257	S21	W61	6396	11	29.5	12	1F		2	C	0251	90	2.1	DJ
	WATU	04	0246	0252		S23	W61	6396	11	29.5		SF			P	0252	30	0.7	
0035	LEAR	04	0331	0331	0337	N10	E62	6397	12	8.8	6	SF	C 1.2	3	E	18			
0036	LEAR	04	0406	0415	0421	N08	E54	6397	12	8.2	15	SF	C 1.6	3	E	29			
0037	LEAR	04	0733	0735	0743	N10	E58	6397	12	8.7	10	SF	C 4.3	3	E	76			
0038		04	0822	0825	0839	N20	E44	6395	12	7.7	17	1F	C 1.4			94	2.5	E	
	HTPR	04	0822	0828	0837	N21	E44	6395	12	7.7	15	1F			C	0828	170	2.5	E
	LEAR	04	0824	0825	0841	N19	E44	6395	12	7.7	17	SF	C 1.4	3	E	19			
0039		04	0920	0921	0930	N36	E14	6390	12	5.5	10	SN				26	0.5	H	
	LEAR	04	0920	0921	0925	N36	E14	6390	12	5.5	5	SF		3	E	13			
	HTPR	04	0920	0922	0935	N36	E13	6390	12	5.4	15	SN			C	0922	40	0.5	H
0040		04	1246	1252	1310	N11	E56	6397	12	8.7	24	1N	C 1.8			175	4.0	F	
	RAMY	04	1246	1252	1319	N10	E55	6397	12	8.7	33	1N	C 1.8	3	E	150		F	
	HTPR	04	1248	1252	1300	N12	E57	6397	12	8.8	12	1N			C	1252	200	4.0	
0041	RAMY	04	1333	1335	1338	S21	W65	6396	11	29.7	5	SF		3	E	25			
0042	RAMY	04	1337	1346	1417	N09	E53	6397	12	8.5	40	SF		3	E	43		F	

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Dec 90

HA SOLAR FLARES

DECEMBER 1990

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)		
0043	RAMY	04	1404	1409	1430	N21	E34	6399	12	7.2	26	SF		3	E		16			
0044		04	1420*	14332	1547D	N09	E49	6397	12	8.3	87D	1B	M 1.8				174	3.2	FH	
	RAMY	04	1420	1435	1547D	N08	E51	6397	12	8.4	87D	1B	M 1.8	3	E		206		FH	
	HTRP	04	1425	1433	1507D	N12	E47	6397	12	8.1	42D	1B				1433	190	3.4		
	HTRP	04	1432	1435	1507D	N08	E49	6397	12	8.3	35D	1B				1435	190	3.0		
	HOLL	04	1435E	1439U	1540D	N08	E50	6397	12	8.3	65D	1B	M 1.8	1	E		108		F	
0045	RAMY	04	1600	1606	1615	S23	W61	6400	11	30.0	15	SF		3	E		15			
0046	HOLL	04	1604	1605	1628	N17	E43	6395	12	7.9	24	SF		3	E		27			
0047	RAMY	04	1604	1611	1651	N10	E37	6399B	12	7.4	47	SF	C 1.7	3	E		49			
0048	RAMY	04	1621	1624	1658	S23	W61	6400	11	30.0	37	SF	C 1.4	3	E		15			
0049	RAMY	04	1702	1710	1712	S23	W59	6400	11	30.2	10	SF		3	E		14			
0050	RAMY	04	1853	1859	1907	S22	W62	6400	11	30.0	14	SF		3	E		11			
0051		04	1927	19321	1939	S23	W62	6400	11	30.0	12	SF					19		F	
	RAMY	04	1927	1932	1941	S22	W63	6400	11	30.0	14	SF		3	E		16			
	HOLL	04	1927	1933	1937	S24	W60	6400	11	30.2	10	SF		3	E		22		F	
0052		04	1948*	1958*	2018	S23	W62	6400	11	30.0	30	SF					23			
	PALE	04	1948	2000	2003	S24	W60	6400	11	30.2	15	SF		3	E		39			
	RAMY	04	1957	1958	2006	S22	W64	6400	11	30.0	9	SF		3	E		15			
	RAMY	04	2009	2011	2026	S21	W63	6400	11	30.0	17	SF		3	E		20			
	PALE	04	2026	2030	2036	S24	W61	6400	11	30.1	10	SF		3	E		19			
0053		04	20032	20041	2014	N12	E44	6399B	12	8.1	11	SF					18			
	RAMY	04	2003	2004	2015	N11	E44	6399B	12	8.1	12	SF		3	E		18			
	HOLL	04	2005	2005	2012	N12	E44	6399B	12	8.1	7	SF		3	E		17			
0054	LEAR	04	2309	2314	2324	S23	W64	6400	11	30.0	15	SF		3	E		34			
0055	LEAR	05	0012	0019	0031	S24	W60	6400	11	30.4	19	SF		3	E		34			
0056		05	00531	0056	0100	N20	E37	6395	12	7.9	7	SF					66	1.3	DI	
	VORO	05	0053	0056	0105U	N20	E37	6395	12	7.9	12U	SF		2	C	0056	99	1.3	DI	
	LEAR	05	0054	0056	0100	N19	E37	6395	12	7.9	6	SF		3	E		34			
0057	LEAR	05	0120	0205	0212	S23	W67	6400	11	30.0	52	SF		3	E		30			
0058	LEAR	05	0301	0325	0340	S25	W71	6396	11	29.7	39	SF	C 1.9	3	E		30			
0059	LEAR	05	0344	0406	0420	S24	W68	6400	11	30.0	36	SF		3	E		39			
0060	LEAR	05	0417	0419	0423	N18	E35	6395	12	7.8	6	SF	C 1.8	3	E		21			
0061	LEAR	05	0433	0444	0452	S22	W74	6396	11	29.6	19	SF		3	E		20			
0062		05	05363	05395	0549	N19	E35	6395	12	7.9	13	SN					75	0.8	EF	
	MITK	05	0536	0539	0548	N19	E35	6395	12	7.9	12	SN			C	0539				
	LEAR	05	0537	0542	0549	N18	E35	6395	12	7.9	12	SF		3	E		86		F	
	URUM	05	0539	0544	0550	N19	E35	6395	12	7.9	11	SN			C		64	0.8	E	
0063		05	0555	05593	0618	S26	W06	6387	12	4.8	23	SF	C 2.0				61	0.8	E	
	LEAR	05	0555	0559	0611	S26	W05	6387	12	4.8	16	SF	C 2.0	3	E		40			
	URUM	05	0555	0602	0625	S26	W06	6387	12	4.8	30	SF			C		96	1.1	E	
	YUNN	05	0558E	0606U	0618	S26	W06	6387	12	4.8	20D	SN			P	0606	47	0.5		
0064		05	07202	0726*	0829	N09	E40	6397	12	8.3	69	1N	M 2.7				212	3.2	EF	
	URUM	05	0720	0730	0749D	N09	E42	6397	12	8.4	29D	2B			C		418	5.8	E	
	LEAR	05	0722	0726	0820	N08	E43	6397	12	8.5	58	2N	M 2.7	3	E		314		F	
	YUNN	05	0722E	0730	0755D	N11	E41	6397	12	8.4	33D	1N			P		236	3.3		
	URUM	05	0755E	0759	0838	N09	E36	6397	12	8.0	43D	SF			C		32	0.4	E	
	SVTO	05	0817E	0818U	0844D	N09	E38	6397	12	8.2	27D	SF		2	E		58			

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Grp #	Sta	Start Day	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)		
0065	LEAR	05	0809	0824	0835	S25 W05 6387	12 4.9	26	SF	3 E		23			
0066	LEAR	05	0938	0945	0950	S23 W71 6400	11 30.0	12	SF	3 E		80		F	
		05	1252		1258	No Flare Patrol									
		05	1331		1335	No Flare Patrol									
0067	HOLL	05	1435	1452	1523	S24 W69 6400	11 30.3	48	SF	2 E		41			
0068		05	1507	1507	1531	N08 E36 6397	12 8.3	24	SF			24		F	
	HOLL	05	1507	1507	1526	N09 E36 6397	12 8.3	19	SF	2 E		25		F	
	RAMY	05	1507	1507	1536	N07 E37 6397	12 8.4	29	SF	3 E		22			
0069	RAMY	05	1511	1516	1531	N15 E33 6395	12 8.1	20	SF C 1.9	3 E		44		F	
0070	HOLL	05	1544	1545	1551	S23 W70 6400	11 30.3	7	SF C 1.6	3 E		39			
0071	HOLL	05	1559	1607	1615	S24 W75 6400	11 30.0	16	SF	3 E		11		F	
0072	HOLL	05	1657	1658	1706	S25 W75 6400	11 30.0	9	SF	3 E		15			
0073	HOLL	05	1702	1702	1716	N10 E35 6397	12 8.3	14	SF	3 E		10			
0074	HOLL	05	1718	1730	1738	S25 W72 6400	11 30.1	20	SF C 2.3	3 E		72		F	
0075	HOLL	05	1749	1750	1754	S23 W73 6400	11 30.1	5	SF	3 E		16			
0076	PALE	05	1804	1805	1810	S24 W75 6400	11 30.0	6	SF	3 E		20			
0077		05	1818	1820	1852	S22 W34 6393	12 3.1	34	SN			14		FK	
	HOLL	05	1818	1820	1852	S22 W34 6393	12 3.1	34	SN		E	11		K	
	HOLL	05	1818	1829	1852	S22 W34 6393	12 3.1	34	SF	3 E		17		F	
0078	HOLL	05	1821	1826	1836	N18 E29 6395	12 8.0	15	SF	3 E		33			
0079		05	1826*	1838*	1855	S25 W73 6400	11 30.1	29	SF C 2.3			50		F	
	PALE	05	1826	1838	1846	S25 W74 6400	11 30.0	20	SF C 2.3	3 E		77		F	
	HOLL	05	1827	1838	1854	S25 W73 6400	11 30.1	27	SF C 2.3	3 E		51		F	
	HOLL	05	1856	1900	1906	S24 W73 6400	11 30.1	10	SF C 2.6	3 E		23			
0080		05	1855	1857	1934	N13 E25 6399B	12 7.7	39	SN			53		FK	
	HOLL	05	1855	1857	1937	N12 E25 6399B	12 7.7	42	SF	3 E		41		F	
	HOLL	05	1855	1908	1937	N12 E25 6399B	12 7.7	42	SB		E	68		K	
	PALE	05	1901	1907	1927	N14 E25 6399B	12 7.7	26	SF	3 E		49			
0081		05	2048*	2107	2200	N12 E33 6397	12 8.3	72	SF C 8.9			106		F	
	RAMY	05	2048	2107	2114	N14 E33 6397	12 8.4	26	SF	3 E		93		F	
	PALE	05	2054	2114	2200	N10 E32 6397	12 8.3	66	SF C 8.9	3 E		97		F	
	HOLL	05	2058	2108	2130	N11 E33 6397	12 8.3	32	1F	2 E		128		F	
0082	PALE	05	2053	2110	2205	N15 E29 6395	12 8.1	72	SF	3 E		74		F	
0083	HOLL	05	2100	2100	2130	S23 W75 6400	11 30.1	30	SF	2 E		14			
0084	LEAR	06	0100	0112	0120	S25 W79 6400	11 30.0	20	SF	3 E		30			
0085		06	0216	0219	0244	N20 E22 6395	12 7.8	28	SF			28		F	
	PALE	06	0216	0219	0239	N20 E23 6395	12 7.8	23	SF	3 E		27		F	
	LEAR	06	0217	0219	0248	N19 E22 6395	12 7.8	31	SF	3 E		30			
0086	LEAR	06	0230	0232	0243	S21 W42 6393	12 2.9	13	SF	3 E		44			
0087	LEAR	06	0239	0245	0248	N10 E30 6397	12 8.4	9	SF	3 E		23			
0088		06	0628	0630	0640	N09 E32 6397	12 8.7	12	SN			142	1.8	E	
	YUNN	06	0628	0630	0642	N10 E33 6397	12 8.7	14	SN		P	157	1.9		
	MITK	06	0629	0631	0644	N09 E32 6397	12 8.7	15	SN		C	0631			
	PEKG	06	0630	0631	0634	N09 E32 6397	12 8.7	4	SB		P	0636	1.6	E	
		06	0716		0719	No Flare Patrol									

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks		
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
			06 0734		0823		No Flare Patrol											
0089	HTPR	06	1023	1028	1045	S22	W20	6387	12	4.9	22	SF		C	1028	70	0.8	
0090	HTPR	06	1100	1102	1115	S18	E33	6404	12	9.0	15	SF		C	1102	30	0.4	
0091	HTPR	06	1155	1208	1230	N15	E15	6395	12	7.6	35	1N		C	1208	230	2.4	F
0092	HTPR	06	1251	1256	1305	S25	W90	6396	11	29.7	14	1N		C				A
0093	HTPR	06	1348	1352	1410	S22	W48	6393	12	2.9	22	SF		C	1352	100	1.6	
0094	HTPR	06	1350	1352	1400	S28	W20	6387	12	5.0	10	SF		C	1400	120	1.4	
0095	HTPR	06	1421	1422	1426	S25	W22	6387	12	4.9	5	SF		C	1422	130	1.6	
0096		06	1518	1622U	1633	N10	E25	6397	12	8.5	75	SF C 3.5				42		F
	HOLL	06	1518	1622U	1658D	N09	E26	6397	12	8.6	1000	SF	2	E		42		F
	RAMY	06	1610E		1633	N11	E24	6397	12	8.5	230	SF C 3.5	3	E				F
0097	RAMY	06	1610E	1614	1625	S23	W22	6387	12	5.0	150	SF	3	E		21		F
0098		06	18346	1842	1854	S18	E28	6404	12	8.9	20	SF C 2.2				26		
	HOLL	06	1834	1842	1858	S18	E28	6404	12	8.9	24	SF C 2.2	3	E		34		
	PALE	06	1840	1842	1851	S18	E28	6404	12	8.9	11	SF	3	E		18		
0099	HOLL	06	1839	1841	1846	N17	E15	6395	12	7.9	7	SF	3	E		28		
0100	RAMY	06	1901	1903	1912	S18	E28	6404	12	8.9	11	SF	3	E		14		
0101		06	20024	20061	2013	N18	E15	6395	12	8.0	11	SF				33		
	HOLL	06	2002	2007	2015	N17	E14	6395	12	7.9	13	SF	3	E		51		
	PALE	06	2006	2006	2011	N20	E16	6395	12	8.1	5	SF	3	E		15		
0102		06	21051	2108	2114	S18	E26	6404	12	8.8	9	SF C 2.1				18		
	HOLL	06	2105	2108	2116	S18	E26	6404	12	8.8	11	SF C 2.1	3	E		22		
	RAMY	06	2106	2108	2113	S18	E26	6404	12	8.8	7	SF C 2.1	3	E		15		
0103	HOLL	06	2211	2226	2311	N18	E14	6395	12	8.0	60	SF	3	E		42		F
0104		07	01331	01332	0142	S26	W30	6387	12	4.7	9	SN				46	0.8	DIJ
	LEAR	07	0133	0133	0148	S26	W29	6387	12	4.8	15	SF	3	E		31		
	VORO	07	0133	0134	0139	S25	W29	6387	12	4.8	6	SF	2	C	0134	63	0.8	DIJ
	PALE	07	0134	0135	0140	S26	W28	6387	12	4.9	6	SF	3	E		25		
	PEKG	07	0135E	0135	0135D	S26	W32	6387	12	4.6	60	SB		P	0135	63	0.8	D
0105		07	02061	0209	0214	S26	W29	6387	12	4.8	8	SF				85	1.6	DFIJ
	VORO	07	0206	0209	0215	S25	W29	6387	12	4.8	9	SF	2	C	0209	125	1.6	DIJ
	PALE	07	0207	0209	0214	S26	W29	6387	12	4.8	7	SF	3	E		45		F
0106		07	04251	04282	0440	N10	E20	6397	12	8.7	15	SF C 3.4				45	0.5	EF
	LEAR	07	0425	0428	0440	N09	E20	6397	12	8.7	15	SF C 3.4	3	E		42		F
	URUM	07	0426	0430	0439	N10	E21	6397	12	8.8	13	SF		C		48	0.5	E
0107	URUM	07	0434	0436	0450	S25	W80	6400	12	1.0	16	1N		C		96		A
0108	LEAR	07	0524	0525	0641	S23	W33	6387	12	4.7	77	SF	3	E		19		
0109	YUNN	07	0700E	0702	0708D	S27	W33	6387	12	4.7	80	SN		P		31	0.4	
0110		07	07061	07202	0753	N24	E71	6408	12	12.8	47	1B				141	3.8	EG
	TACH	07	0706		0753	N25	E68	6408	12	12.6	47	1B	1	C	0719	107	2.3	G
	YUNN	07	0707	0722	0730D	N21	E74	6408	12	13.0	230	SN		P		63		
	PEKG	07	0720E	0720	0720D	N26	E70	6408	12	12.7	230	1B		P	0725	252	5.3	E
0111		07	0729	07356	0752	N12	E12	6397	12	8.2	23	SB				100	1.0	EF
	TACH	07	0729	0735	0753	N12	E09	6397	12	8.0	24	SB	1	C	0735	153	1.6	EF
	YUNN	07	0729E	0741	0752	N12	E16	6397	12	8.5	230	SN		P		47	0.5	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	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)		
0112	YUNN	07	0729E	0741	0752	N12 E05	6395	12	7.7	23D	SN		P		47	0.5		
0113	ONDR	07	0819E	0824	0836	S21 W34	6387	12	4.7	17D	SN		C	0824	80	1.1	CE	
0114		07	0928E	0931	0947	S26 W33	6387	12	4.8	19	SF C 2.8				56	1.6	F	
	HTPR	07	0928	0931	0945	S27 W32	6387	12	4.9	17	SF		C	0931	120	1.6	F	
	LEAR	07	0929	0939	0949	S26 W34	6387	12	4.7	20	SF C 2.8	3	E		31		F	
	SVTO	07	0934	0938	0947	S26 W32	6387	12	4.9	13	SF C 2.8	3	E		16			
0115	RAMY	07	1218	1218	1227	S11 W19	6402	12	6.1	9	SF		3	E		10		
0116	RAMY	07	1250	1250	1255	N09 E14	6397	12	8.6	5	SF		3	E		16		F
0117	RAMY	07	1312	1327	1330	N14 E03	6395	12	7.8	18	SF		3	E		23		F
0118	HTPR	07	1345	1350	1400	S14 W43	6407	12	4.3	15	SF		C	1350	60	0.8		
0119		07	1408	1410	1433	N09 E15	6397	12	8.7	25	1N M 1.0				248	5.3	EF	
	HTPR	07	1408	1410	1430	N10 E15	6397	12	8.7	22	2B		C	1410	505	5.3	F	
	RAMY	07	1408	1410	1436	N09 E16	6397	12	8.8	28	1F M 1.0	3	E		128		F	
	HOLL	07	1420E	1420U	1430D	N09 E14	6397	12	8.6	10D	1B	1	E		110		FE	
0120		07	1420E	1425J	1441	N20 E06	6395	12	8.0	21	SF				68	1.2	F	
	HTPR	07	1420	1428	1435	N20 E05	6395	12	8.0	15	SF		C	1428	120	1.2		
	RAMY	07	1422	1425	1447	N20 E06	6395	12	8.0	25	SF		3	E		17		F
0121		07	1819*	1819*	1834	S24 W36	6387	12	5.0	15	SF C 3.3				20		F	
	HOLL	07	1819	1819	1830	S23 W38	6387	12	4.8	11	SF C 3.3	3	E		18		F	
	RAMY	07	1829	1834	1838	S25 W35	6387	12	5.0	9	SF		3	E		23		
0122		07	1915E	1918E	1933	S24 W37	6387	12	4.9	18	SF				31		FK	
	RAMY	07	1915	1918	1924	S26 W37	6387	12	4.9	9	SF		3	E		29		F
	HOLL	07	1915	1919	1935	S24 W38	6387	12	4.9	20	SB				39		K	
	HOLL	07	1915	1925	1935	S24 W38	6387	12	4.9	20	SF		3	E		34		
	PALE	07	1916	1926	1931	S24 W38	6387	12	4.9	15	SF		3	E		25		
	RAMY	07	1924	1926	1938	S24 W36	6387	12	5.0	14	SF		3	E		26		F
0123		07	1932*	1949E	2015	N11 E08	6397	12	8.4	43	SF				30		F	
	RAMY	07	1932	1949	2027	N12 E09	6397	12	8.5	55	SF		3	E		36		F
	HOLL	07	1933	1956	2021	N09 E08	6397	12	8.4	48	SF		3	E		34		
	PALE	07	1951	1955	1958	N13 E07	6397	12	8.3	7	SF		3	E		20		F
0124		07	2227E	2231E	2244	N19 W01	6395	12	7.8	17	SF C 2.2				20			
	LEAR	07	2227	2231	2248	N19 W02	6395	12	7.8	21	SF C 2.2	3	E		24			
	HOLL	07	2230	2232	2239	N19 E00	6395	12	7.9	9	SF C 2.2	3	E		15			
0125	LEAR	08	0108	0108	0117	S15 W49	6407	12	4.3	9	SF		3	E		22		
0126	LEAR	08	0114	0116	0119	N19 W01	6395	12	8.0	5	SF		3	E		14		
0127	VORO	08	0141	0142	0146	N20 E01	6395	12	8.1	5	SF		2	C	0142	54	0.6	DI
0128	VORO	08	0142	0144	0200	S12 W28	6402	12	6.0	18	SF		2	C	0144	108	1.2	D
0129	PALE	08	0232	0238	0241	S16 W51	6407	12	4.2	9	SF		3	E		27		
0130	LEAR	08	0254	0259	0308	S13 W55	6407	12	4.0	14	SF		3	E		13		
0131	LEAR	08	0302	0303	0310	N19 W04	6395	12	7.8	8	SF		3	E		20		
0132	URUM	08	0550	0554	0610	N14 W19	6398	12	6.8	20	SF		C		32	0.4	D	
0133		08	0640E	0644E	0706	S11 W32	6402	12	5.9	26	SN C 7.3				50	0.7	EU	
	YUNN	08	0639E	0644	0654D	S11 W32	6402	12	5.9	15D	SN		P		63	0.8		
	TACH	08	0640	0645	0704	S10 W33	6402	12	5.8	24	SF		1	C	0645	41	0.5	E
	LEAR	08	0643	0645	0715	S12 W32	6402	12	5.9	32	SF C 7.3	3	E		44		UE	
	URUM	08	0645E	0647	0700	S10 W31	6402	12	5.9	15D	SB		C		64	0.8	E	
	SVTO	08	0655E	0656U	0705	S13 W31	6402	12	5.9	10D	SF		2	E		39		

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Grp #	Sta	Start Day (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)	
0134		08 06599	07123	0728	N14	W21	6398	12	6.7	29	SN					106	1.5	DEFH
	URUM	08 0659	0715	0726	N15	W20	6398	12	6.8	27	SB			C		96	1.1	E
	SVTO	08 0701	0713	0725	N13	W21	6398	12	6.7	24	SF		3	E		94		FH
	LEAR	08 0702	0713	0736	N14	W22	6398	12	6.6	34	SF		3	E		59		FH
	ABST	08 0708	0712	0723	N15	W21	6398	12	6.7	15	SN			C	0712	174	1.9	D
0135	LEAR	08 0734	0740	0744D	N24	E67	6408	12	13.5	100	SF		3	E		42		
0136	HTPR	08 0850	0856	0905	N10	W22	6398	12	6.7	15	SF			C	0856	40	0.5	
0137		08 09405	09428	1008	S14	W55	6407	12	4.2	28	SF					16		
	HTPR	08 0940	0948	1000	S15	W53	6407	12	4.4	20	SF			C				
	LEAR	08 0942	0942	1016	S13	W57	6407	12	4.1	34	SF		3	E		12		
	KANZ	08 0942	0950	1006	S13	W55	6407	12	4.2	24	SF			V				
	SVTO	08 0945	0949	1010	S16	W54	6407	12	4.3	25	SF		3	E		21		
0138		08 09553	10011	1030	N09	E03	6397	12	8.6	35	1N	C 4.9				148	2.2	EF
	SVTO	08 0955	1001	1031	N09	E03	6397	12	8.6	36	SN	C 4.9	3	E		76		F
	LEAR	08 0956	1002	1025	N09	E02	6397	12	8.6	29	1N	C 4.9	3	E		106		F
	HTPR	08 0958	1001	1035	N10	E02	6397	12	8.6	37	1B			C	1001	200	2.1	
	KANZ	08 0958	1002	1027	N09	E03	6397	12	8.6	29	1N			V				
	KHAR	08 1005E		1022D	N09	E03	6397	12	8.6	17D	1F			P	1010	210	2.3	E
0139		08 10042	10061	1016	N15	W23	6398	12	6.7	12	SF					22		
	LEAR	08 1004	1007	1017	N15	W23	6398	12	6.7	13	SF		3	E		23		
	KANZ	08 1006	1006	1017	N15	W22	6398	12	6.7	11	SF			V				
	SVTO	08 1006	1007	1015	N15	W23	6398	12	6.7	9	SF		3	E		20		
		08 1130*	11414	1204	N14	W23	6398	12	6.7	34	SF	C 4.5				29		
0140	KANZ	08 1130	1141	1204	N15	W23	6398	12	6.7	34	SF			V				
	RAMY	08 1139	1145	1205	N13	W22	6398	12	6.8	26	SF	C 4.5	3	E		31		
	SVTO	08 1141	1144	1203	N13	W24	6398	12	6.7	22	SF	C 4.5	3	E		27		
0141	RAMY	08 1208	1210	1245	S11	W32	6402	12	6.1	37	SF		3	E		13		F
0142		08 12451	1249	1256	N14	W23	6398	12	6.8	11	SF					21		F
	KANZ	08 1245	1249	1256	N13	W24	6398	12	6.7	11	SF			V				
	RAMY	08 1246	1249	1257	N15	W22	6398	12	6.9	11	SF		3	E		21		F
0143		08 13251	13284	1348	N20	W06	6395	12	8.1	23	SF	C 3.8				16		F
	SVTO	08 1325	1332	1350	N19	W08	6395	12	7.9	25	SF	C 3.8	3	E		19		
	RAMY	08 1326	1328	1347	N20	W05	6395	12	8.2	21	SF		3	E		12		F
0144		08 14353	14392	1514	N14	W23	6398	12	6.9	39	SF					46		F
	RAMY	08 1435	1439	1501	N15	W22	6398	12	6.9	26	SF		3	E		20		F
	HOLL	08 1438	1441	1528	N14	W24	6398	12	6.8	50	SF		3	E		71		F
0145		08 14374	14462	1507	N09	E01	6397	12	8.7	30	SF					24		F
	RAMY	08 1437	1448	1510	N09	E02	6397	12	8.7	33	SF		3	E		25		F
	HOLL	08 1441	1446	1504	N09	E00	6397	12	8.6	23	SF		3	E		22		F
0146	HOLL	08 1438	1506	1531	S14	W56	6407	12	4.4	53	SF		3	E		30		F
0147		08 14391	14411	1447	S27	E36	6406	12	11.4	8	SF					16		F
	RAMY	08 1439	1442	1445	S27	E36	6406	12	11.4	6	SF		3	E		11		F
	HOLL	08 1440	1441	1449	S27	E35	6406	12	11.3	9	SF		3	E		20		F
0148	HOLL	08 1500	1501	1512	S27	E35	6406	12	11.3	12	SF	C 4.4	3	E		13		F
0149	HOLL	08 1529	1541	1546	N14	W23	6398	12	6.9	17	SF		3	E		35		F
0150	HOLL	08 1541	1543	1550	S15	W58	6407	12	4.3	9	SF		3	E		12		F
0151	HOLL	08 1548	1556	1612	S11	W35	6402	12	6.0	24	SF		3	E		22		F
0152	HOLL	08 1554	1605	1625	S15	W58	6407	12	4.3	31	SF		3	E		23		F
0153	HOLL	08 1602	1604	1617	N14	W25	6398	12	6.8	15	SF		3	E		17		F

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0154	HOLL	08 1726	1732	1744	N15 W25	6398	12	6.8	18	SF	3	E		17		F
0155		08 18142	1816	1828	N16 W24	6398	12	6.9	14	SF				18		F
	HOLL	08 1814	1816	1835	N15 W24	6398	12	6.9	21	SF	3	E		15		F
	RAMY	08 1816	1816	1821	N16 W23	6398	12	7.0	5	SF	3	E		20		F
0156		08 1814	1818*	1837	S11 W37	6402	12	6.0	23	SN				11		FK
	HOLL	08 1814	1818	1837	S11 W37	6402	12	6.0	23	SN		E		10		K
	HOLL	08 1814	1828	1837	S11 W37	6402	12	6.0	23	SF	3	E		12		F
0157	HOLL	08 1844	1847	1851	N14 W25	6398	12	6.9	7	SF C 4.3	3	E		19		F
0158	HOLL	08 1855	1855	1913	N12 W11	6397	12	7.9	18	SF		E		11		
0159	HOLL	08 1943	1946	1954	N15 W28	6398	12	6.7	11	SF		E		16		
0160	HOLL	08 2108	2109	2145	S11 W39	6402	12	5.9	37	SF		E		13		
0161		08 2153	2154	2200	S26 E30	6406	12	11.2	7	SF				25		
	PALE	08 2153	2154	2158	S26 E31	6406	12	11.3	5	SF	3	E		16		
	HOLL	08 2153	2154	2202	S27 E30	6406	12	11.2	9	SF	3	E		34		
0162		08 2252*	2301*	2324	N14 W29	6398	12	6.8	32	SF C 2.7				19		
	PALE	08 2252	2301	2302	N15 W27	6398	12	6.9	10	SF	3	E		22		
	LEAR	08 2252	2314	2334	N14 W30	6398	12	6.7	42	SF C 2.7	3	E		16		
	HOLL	08 2252	2315	2326D	N14 W30	6398	12	6.7	34D	SF C 2.7	3	E		21		
	PALE	08 2305	2319	2337	N13 W30	6398	12	6.7	32	SF C 2.7	3	E		18		
0163		08 2356*	2414	2416	N15 W28	6398	12	6.9	20	SF C 2.6				65		
	LEAR	08 2356		2409	N15 W27	6398	12	6.9	13	1F C 2.6	3	E		129		
	PALE	08 2358E	2359U	2425D	N15 W27	6398	12	6.9	27D	SF C 2.6	3	E		27		
	LEAR	09 0010	0014	0024	N14 W29	6398	12	6.8	14	SF	3	E		40		
0164	LEAR	09 0047	0049	0107	N13 W33	6398	12	6.5	20	SF		E		27		
0165	LEAR	09 0224	0232	0257	S11 W45	6402	12	5.7	33	SF		E		21		
0166		09 0311	03152	0326	N13 W32	6398	12	6.7	15	1N C 4.9				136	2.1	D
	LEAR	09 0311	0315	0326	N13 W32	6398	12	6.7	15	1F C 4.9	3	E		105		
	PEKG	09 0317E	0317	0318D	N13 W32	6398	12	6.7	1D	1N		P	0318	168	2.1	D
0167		09 0503	05043	0520	N02 E82	6410	12	15.3	17	SN				22		
	LEAR	09 0503	0504	0520	N02 E80	6410	12	15.2	17	SF	3	E		29		
	YUNN	09 0503E	0507	0507D	N03 E84	6410	12	15.5	4D	SN		P		16		
0168	LEAR	09 0544	0544	0554	N24 E55	6408	12	13.5	10	SF		E		27		
0169		09 0815	08183	0834	N03 E78	6410	12	15.2	19	1N M 2.8				109	4.7	E
	LEAR	09 0815	0818	0836	N02 E79	6410	12	15.2	21	1N M 2.8	3	E		109		E
	SVTO	09 0817E	0818U	0839	N05 E76	6410	12	15.0	22D	1N	2	E		108		
	ATHN	09 0817E	0821	0828	N02 E78	6410	12	15.2	11D	1B	3	V	0821	111	4.7	
0170		09 0921	0926	0955	N08 W12	6397	12	8.5	34	1F M 1.0				122		F
	LEAR	09 0921	0926	1003	N09 W11	6397	12	8.6	42	1F M 1.0	3	E		131		F
	SVTO	09 0923E	0926U	0947	N08 W13	6397	12	8.4	24D	1F M 1.0	3	E		114		
		09 1040		1105	No Flare Patrol											
0171	RAMY	09 1125	1133	1141	N16 W33	6398	12	7.0	16	SF C 4.9	3	E		23		F
0172		09 1409	1410	1429	N14 W36	6398	12	6.9	20	SN C 3.2				26		K
	HOLL	09 1409E	1410U	1426	N13 W37	6398	12	6.8	17D	SF	1	E		25		
	RAMY	09 1409	1410	1431	N15 W36	6398	12	6.9	22	SN		E		18		K
	RAMY	09 1409	1424U	1431	N15 W36	6398	12	6.9	22	SN C 3.2	3	E		36		
0173	RAMY	09 1525	1530	1537	N08 W16	6397	12	8.4	12	SF		E		22		
0174		09 1552	15528	1612	N10 W24	6397	12	7.8	20	SF				32		F
	HOLL	09 1552	1552	1612	N09 W24	6397	12	7.8	20	SF	3	E		32		F
	RAMY	09 1552	1600	1613	N10 W23	6397	12	7.9	21	SF	3	E		33		F

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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	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0175	HOLL	09	1626	1626	1629	N14	W40	6398	12	6.7	3	SF		4	E		15		F
0176		09	1817	18187	1859	N13	W41	6398	12	6.7	42	SN					28		FK
	HOLL	09	1817	1818	1859	N13	W41	6398	12	6.7	42	SN			E		23		K
	HOLL	09	1817	1825	1859	N13	W41	6398	12	6.7	42	SN		4	E		33		F
0177	PALE	09	1826E	1828	1830	S12	W53	6402	12	5.8	4D	SF		3	E		11		
0178	RAMY	09	1924	1928	1932	N09	W25	6397	12	7.9	8	SF		3	E		20		
0179		09	19565	20022	2018	S26	W62	6387	12	5.0	22	SF	C 4.2				64		F
	RAMY	09	1956	2002	2026	S25	W60	6387	12	5.2	30	SF		3	E		54		F
	HOLL	09	1959	2004	2016	S25	W63	6387	12	4.9	17	SF	C 4.2	4	E		64		F
	PALE	09	2001	2002	2013	S27	W64	6387	12	4.8	12	SF		3	E		74		F
0180		09	20371	20374	2047	S26	W61	6387	12	5.1	10	SF					16		
	PALE	09	2037	2037	2045	S28	W62	6387	12	5.0	8	SF		3	E		12		
	RAMY	09	2037	2039	2047	S25	W59	6387	12	5.3	10	SF		3	E		22		
	HOLL	09	2038	2041	2048	S26	W62	6387	12	5.0	10	SF		3	E		14		
0181		09	2046	2046	2059	N18	W28	6395	12	7.7	13	SF					16		F
	RAMY	09	2046	2046	2056	N19	W28	6395	12	7.7	10	SF		3	E		12		
	HOLL	09	2046	2046	2102	N18	W27	6395	12	7.8	16	SF		4	E		20		F
0182		09	2048*	2056*	2120	S27	W62	6387	12	5.0	32	SF					28		
	RAMY	09	2048	2058	2105	S25	W60	6387	12	5.2	17	SF		3	E		16		
	PALE	09	2055	2056	2109	S28	W62	6387	12	5.0	14	SF		3	E		13		
	HOLL	09	2055	2113	2146	S26	W62	6387	12	5.0	51	SF		3	E		53		
	PALE	09	2114	2116	2126D	S28	W62	6387	12	5.0	12D	SF		3	E		32		
0183		09	2203*	2214*	2327	N13	W43	6398	12	6.7	84	1F	C 5.1				90		EFK
	HOLL	09	2203	2230	2339	N14	W42	6398	12	6.7	96	SF			E		36		K
	HOLL	09	2203	2307	2339	N14	W42	6398	12	6.7	96	1N	C 5.1	3	E		157		FE
	PALE	09	2210E	2214	2229D	N11	W43	6398	12	6.7	19D	SF		3	E		47		
	LEAR	09	2212	2237	2333	N13	W43	6398	12	6.7	81	1F			E		102		K
	LEAR	09	2212	2309	2333	N13	W43	6398	12	6.7	81	1F		3	E		114		F
	PALE	09	2232	2236	2244	N12	W43	6398	12	6.7	12	SF		3	E		26		
	PALE	09	2254	2309	2335	N13	W44	6398	12	6.6	41	1F		3	E		152		
0184		09	2207	22121	2232	N26	E48	6408	12	13.6	25	SF					34		
	HOLL	09	2207	2212	2232	N25	E49	6408	12	13.7	25	SF		3	E		51		
	PALE	09	2210E	2213	2221D	N27	E48	6408	12	13.7	11D	SF		3	E		17		
0185		09	2227*	2231*	2251	S26	W65	6387	12	4.9	24	SF					30		
	LEAR	09	2227	2231	2315	S24	W67	6387	12	4.7	48	SF		3	E		44		
	HOLL	09	2228	2231	2239	S26	W64	6387	12	5.0	11	SF		3	E		25		
	PALE	09	2230	2231	2234	S27	W62	6387	12	5.1	4	SF		3	E		21		
	PALE	09	2244	2248	2255	S25	W68	6387	12	4.7	11	SF		3	E		29		
0186		09	23114	23154	2334	N19	W27	6395	12	7.9	23	SF					36		F
	LEAR	09	2311	2319	2338	N19	W28	6395	12	7.8	27	SF		3	E		53		
	HOLL	09	2315	2315	2330	N19	W26	6395	12	8.0	15	SF		3	E		20		F
0187	LEAR	09	2327	2328	2333	S23	W62	6387	12	5.2	6	SF		3	E		22		
0188	LEAR	10	0016	0019	0027	N14	W45	6398	12	6.6	11	SF		3	E		35		
0189		10	00231	00241	0042	S27	W66	6387	12	4.9	19	SF	C 2.6				22		
	LEAR	10	0023	0025	0054	S26	W67	6387	12	4.8	31	SF	C 2.6	3	E		31		
	PALE	10	0024	0024	0031	S28	W66	6387	12	4.8	7	SF	C 2.6	3	E		13		
0190		10	0037*	0040*	0100	N14	W44	6398	12	6.7	23	SF	C 3.3				23		
	PALE	10	0037	0040	0043	N15	W41	6398	12	6.9	6	SF		3	E		11		
	LEAR	10	0041	0047	0111	N13	W44	6398	12	6.7	30	SF	C 3.3	3	E		26		
	PALE	10	0052	0059	0106	N13	W46	6398	12	6.6	14	SF		3	E		31		
0191	PALE	10	0050	0050	0059	S12	W56	6402	12	5.8	9	SF		3	E		21		
0192	PALE	10	0108	0111	0117	S11	W54	6402	12	6.0	9	SF		3	E		73		

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CHP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks	
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0193	LEAR	10 0125	0126	0144	N15 W41	6398	12 6.9	19	SF C 2.6	3	E		26			
0194		10 0251	02501	0256	N14 W48	6398	12 6.5	5	SN				56	1.3	E	
	PEKG	10 0250E	0250	0255	N14 W48	6398	12 6.5	5D	SN		C	0250	84	1.3	E	
	LEAR	10 0251	0251	0257	N14 W48	6398	12 6.5	6	SF				28			
0195		10 0422	04277	0440	N13 W48	6398	12 6.6	18	SB				94	1.4	E	
	PEKG	10 0422	0427	0435	N10 W48	6398	12 6.6	13	SB		P	0427	126	1.9	E	
	YUNN	10 0430E	0434	0446	N16 W48	6398	12 6.5	16D	SB		P		63	1.0		
0196	LEAR	10 0654	0657	0717	N16 W32	6395	12 7.9	23	SF				77		F	
0197		10 0657*	0727*	0832	N15 W47	6398	12 6.7	95	1N M 5.8				232	2.5	DFHJKV	
	LEAR	10 0657	0730	0913	N15 W47	6398	12 6.7	136	2F		E		259		K	
	LEAR	10 0657	0755	0913	N15 W47	6398	12 6.7	136	2B M 5.8	3	E		422		FH	
	ABST	10 0722	0729	0742	N17 W46	6398	12 6.8	20	1F		C		131	2.1	D	
	ABST	10 0725	0727	0734	N13 W51	6398	12 6.5	9	SF		C	0727	87	1.3	F	
	ISTA	10 0740E		0905	N15 W47	6398	12 6.8	85D	2B		P				V	
	ABST	10 0744	0753	0822	N13 W45	6398	12 6.9	38	1N		C	0753	262	4.0	J	
0198	ISTA	10 0849		0855	S11 W58	6402	12 6.0	6	SF		P				D	
0199		10 0932*	0943*	0956	N12 W50	6398	12 6.6	24	SF C 3.4				30		H	
	LEAR	10 0932	0943	0948	N13 W50	6398	12 6.6	16	SF C 3.4	3	E		34			
	LEAR	10 0954	0955	1005	N12 W49	6398	12 6.7	11	SF C 3.6	3	E		26		H	
		10 1046		1104	No Flare Patrol											
		10 1126		1243	No Flare Patrol											
0200	RAMY	10 1301	1302	1318	S12 W68	6402	12 5.4	17	SF				34		F	
0201		10 1306*	1311*	1329	N14 W54	6398	12 6.5	23	SF C 6.8				25		K	
	RAMY	10 1306	1311	1318	N14 W51	6398	12 6.7	12	SF C 6.8	3	E		24			
	RAMY	10 1320	1321	1334	N14 W55	6398	12 6.4	14	SF		E		21		K	
	RAMY	10 1320	1330	1334	N14 W55	6398	12 6.4	14	SF		E		29			
0202	RAMY	10 1306	1306	1331	S24 W80	6387	12 4.4	25	SF				23		F	
		10 1353		1409	No Flare Patrol											
0203	HOLL	10 1445E	1446U	1532	N21 W50	6399	12 6.8	47D	SF C 2.5	2	E		24		F	
0204		10 1513	15174	1537	N09 W27	6397	12 8.6	24	SF C 3.7				63		FH	
	HOLL	10 1513	1517	1538	N09 W26	6397	12 8.7	25	SF		E		72		FH	
	RAMY	10 1515E	1521	1536	N09 W28	6397	12 8.5	21D	SF C 3.7	3	E		54		FH	
0205		10 16206	1629	1642	N14 W52	6398	12 6.7	22	SF C 2.5				19			
	RAMY	10 1620	1629	1646	N14 W53	6398	12 6.7	26	SF C 2.5	3	E		21			
	HOLL	10 1626	1629	1638	N14 W52	6398	12 6.7	12	SF C 2.5	3	E		17			
0206		10 1621	16242	1644	S10 W63	6402	12 5.9	23	SF				27			
	RAMY	10 1621	1624	1642	S09 W63	6402	12 5.9	21	SF		E		31			
	HOLL	10 1621	1626	1645	S10 W63	6402	12 5.9	24	SF		E		23			
0207		10 16477	16488	1658	N14 W53	6398	12 6.7	11	SF				22		F	
	RAMY	10 1647	1648	1652	N14 W53	6398	12 6.7	5	SF		E		28		F	
	RAMY	10 1654	1656	1704	N15 W53	6398	12 6.7	10	SF		E		17			
0208		10 1659	17021	1712	S10 W67	6402	12 5.7	13	SF				43			
	HOLL	10 1659	1702	1713	S10 W68	6402	12 5.6	14	SF		E		47			
	RAMY	10 1659	1703	1710	S10 W66	6402	12 5.7	11	SF		E		39			
0209		10 17131	1719	1726	N14 W54	6398	12 6.6	13	SF C 2.6				44			
	RAMY	10 1713	1719	1725	N14 W54	6398	12 6.6	12	SF C 2.6	3	E		36			
	HOLL	10 1714	1719	1728	N13 W54	6398	12 6.6	14	SN C 2.6	3	E		45			
	PALE	10 1717E	1719U	1724	N14 W53	6398	12 6.7	7D	SF C 2.6	2	E		50			
0210		10 17523	17533	1758	N14 W54	6398	12 6.7	6	SF				30			
	RAMY	10 1752	1753	1757	N14 W54	6398	12 6.7	5	SF		E		22			
	PALE	10 1755	1756	1758	N14 W53	6398	12 6.7	3	SF		E		38			

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CHD	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)	
0211		10 1754*	1759*	1820	N20	W52	6399	12	6.8	26	SF C 6.8				39		F
	HOLL	10 1754	1801	1823	N20	W52	6399	12	6.8	29	SF	3	E		49		F
	PALE	10 1756	1800	1811	N20	W52	6399	12	6.8	15	SF	3	E		27		F
	RAMY	10 1759E	1759	1828	N21	W52	6399	12	6.8	29D	SN C 6.8	3	E		64		
	PALE	10 1815	1816	1819	N21	W51	6399	12	6.8	4	SF	3	E		15		
0212	HOLL	10 1807	1807	1819	S11	W65	6402	12	5.9	12	SF	3	E		15		
0213		10 18558	19181	1934	S10	W66	6402	12	5.8	39	SF				30		
	RAMY	10 1855	1918	1934	S10	W66	6402	12	5.8	39	SF	3	E		23		
	HOLL	10 1903	1919	1935	S11	W66	6402	12	5.8	32	SF	3	E		37		
0214		10 19274	19311	1936	N08	W30	6397	12	8.6	9	SF				17		FH
	RAMY	10 1927	1932	1937	N09	W29	6397	12	8.6	10	SF	3	E		20		
	PALE	10 1931	1931	1934	N08	W30	6397	12	8.6	3	SF	3	E		14		FH
0215		10 1937*	1952*	2038	N22	E82	6413	12	17.1	61	SF				48		
	HOLL	10 1937	2021	2123	N23	E82	6413	12	17.1	106	SF	3	E		67		
	RAMY	10 1941	1952	2000	N22	E82	6413	12	17.1	19	SF	3	E		47		
	RAMY	10 2010	2027	2031	N22	E82	6413	12	17.1	21	SF	3	E		30		
0216		10 19453	19474	1957	N13	W56	6398	12	6.6	12	SF C 3.0				28		
	RAMY	10 1945	1947	1958	N14	W55	6398	12	6.7	13	SF	3	E		22		
	HOLL	10 1945	1951	1959	N13	W55	6398	12	6.7	14	SF C 3.0	3	E		41		
	PALE	10 1948	1950	1953	N12	W57	6398	12	6.5	5	SF C 3.0	3	E		20		
0217		10 2016	2017*	2031	S10	W67	6402	12	5.8	15	SF				22		K
	RAMY	10 2016	2017	2031	S10	W67	6402	12	5.8	15	SF		E		14		K
	RAMY	10 2016	2028	2031	S10	W67	6402	12	5.8	15	SF	3	E		31		
0218	HOLL	10 2036	2051	2103	N14	W53	6398	12	6.8	27	SF	3	E		18		
0219	HOLL	10 2037	2058	2126	S11	W67	6402	12	5.8	49	SF	3	E		27		
0220	HOLL	10 2042	2044	2055	S22	W80	6387	12	4.7	13	SF	3	E		18		
0221	HOLL	10 2123	2134	2137	N21	E76	6413	12	16.7	14	SF	3	E		12		
0222	LEAR	10 2210E	2210U	2309	N15	W52	6398	12	7.0	59D	1N C 8.6	2	E		147		F
0223	LEAR	10 2239	2304	2316	S10	W69	6402	12	5.7	37	SF C 5.2	3	E		83		F
0224	LEAR	10 2249	2251	2301	N24	E37	6408	12	13.8	12	SF	3	E		15		
0225	LEAR	10 2326	2331	2339	S27	W83	6387	12	4.5	13	SF	3	E		12		
0226		10 23394	23421	2411	N20	W57	6399	12	6.6	32	SF C 5.7				61	1.8	DIJ
	LEAR	10 2339	2342	2426	N20	W56	6399	12	6.7	47	SF C 5.7	3	E		55		
	VORO	10 2340E	2343	2356	N21	W59	6399	12	6.5	16D	SF	2	C	2343	90	1.8	DIJ
	PALE	10 2343	2351U	2425D	N19	W57	6399	12	6.6	42D	SF	3	E		39		
0227	PALE	10 2349	2349		S16	W90	6407	12	4.2		SF	3	E		59		
0228	LEAR	11 0019	0020	0038	N15	W44	6395	12	7.7	19	SF	3	E		11		
0229	LEAR	11 0035	0041	0056	N22	E77	6413	12	16.9	21	SF	3	E		23		
0230	PALE	11 0240	0240	0251	N21	W56	6399	12	6.8	11	SF	3	E		17		
0231		11 02527	03091	0333	N20	W57	6399	12	6.7	41	SF C 5.4				39		
	PALE	11 0252	0310	0334	N21	W56	6399	12	6.8	42	SF C 5.4	3	E		37		
	LEAR	11 0259	0309	0332	N20	W58	6399	12	6.7	33	SF	3	E		41		
0232	LEAR	11 0316	0331	0342	N21	E73	6413	12	16.7	26	SF	3	E		51		
0233	LEAR	11 0434	0436	0449	N16	W45	6395	12	7.8	15	SF	3	E		26		F
0234	LEAR	11 0502	0504	0516	S25	W88	6387	12	4.4	14	SF M 1.1	3	E		64		

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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)	
0235	ABST	11	06201	06237	0646	N20	W60	6399	12	6.7	26	SN	C	4.3			60	2.0	DF
	LEAR	11	0620	0623	0642	N20	W60	6399	12	6.7	22	SN			C	0623	87	2.0	D
	LEAR	11	0621	0630	0649	N20	W60	6399	12	6.7	28	SF	C	4.3	3	E	33		F
0236	SVTO	11	07083	07095	0724	N17	W46	6395	12	7.8	16	SN	C	5.1			72	1.4	EF
	ABST	11	0706E	0708U	0733D	N14	W46	6395	12	7.8	27D	SF			2	E	68		
	LEAR	11	0708	0709	0723	N16	W48	6395	12	7.6	15	SN			C	0709	114	1.9	E
	LEAR	11	0708	0710	0730	N20	W43	6395	12	8.0	22	SF	C	5.1	3	E	57		F
	YUNH	11	0711E		0720	N19	W45	6395	12	7.9	10D	SB			P				F
0237	LEAR	11	0711	0714	0714D	N16	W48	6395	12	7.6	3D	SB			P		47	0.8	
	SVTO	11	07274	07304	0746	N03	E58	6410	12	15.6	19	SF	C	3.8			52	1.8	DEF
	ABST	11	0727	0728U	0743	N04	E60	6410	12	15.8	16	SF			2	E	20		
	LEAR	11	0727	0730	0746	N03	E61	6410	12	15.9	19	SF			C	0730	87	1.8	D
	LEAR	11	0727	0733	0749	N03	E58	6410	12	15.6	22	SF	C	3.8	3	E	48		F
0238	LEAR	11	0731	0734	0745	N03	E52	6410	12	15.2	14	SN			P				E
	LEAR	11	0830	0838	0846	N20	W43	6395	12	8.1	16	SF			3	E	21		
	SVTO	11	0832*	09125	1028	N15	W59	6398	12	6.9	116	SF	C	3.1			87	1.8	DFI
	LEAR	11	0832	0912	1108	N14	W63	6398	12	6.6	156	SF	C	3.1	3	E	93		
	ONDR	11	0851	0917	0948	N15	W59	6398	12	6.9	57	SF			3	E	75		F
0239	ONDR	11	0858E	0900U	0905U	N16	W56	6398	12	7.1	7U	SN			C	0900	94	1.8	DI
	SVTO	11	1111*	1132*	1220	N13	W61	6398	12	6.9	69	1N	M	1.3			97	3.0	CEFIK
	SVTO	11	1111	1132	1228	N11	W61	6398	12	6.9	77	1N	M	1.3	3	E	104		F
	RAMY	11	1111	1144	1228	N11	W61	6398	12	6.9	77	1N			E		84		K
	RAMY	11	1132	1133	1214	N13	W62	6398	12	6.8	42	SN	M	1.3	3	E	82		F
	ONDR	11	1132	1154	1214	N13	W62	6398	12	6.8	42	SN			E		77		K
0240	ONDR	11	1150E	1156	1214	N15	W61	6398	12	6.9	24D	1B			C	1156	137	3.0	CEI
	RAMY	11	1308	1309	1311	S10	W79	6402	12	5.6	3	SF			3	E	18		
	RAMY	11	1324	1336	1342	S10	W82	6402	12	5.4	18	SF			3	E	11		
	RAMY	11	1411*	1418	1421	S10	W76	6402	12	5.9	16	SF	C	2.5			16		
	RAMY	11	1411	1418	1421	S10	W76	6402	12	5.9	10	SF	C	2.5	3	E	15		
0241	RAMY	11	1422	1426	1433	S10	W76	6402	12	5.9	11	SF			3	E	17		
	RAMY	11	1419	1419	1424	N07	E72	6415	12	17.0	5	SF			3	E	13		
	HOLL	11	1511	1523	1533	S13	W79	6402	12	5.7	22	SF	C	2.5	3	E	40		
0242	HOLL	11	1543	1553	1603	S14	W96	6407	12	4.4	20	1F			3	E	107		
	RAMY	11	1547	1549	1603	S08	W79	6402	12	5.7	16	SF	C	2.9	3	E	41		
	RAMY	11	1550	1550	1558	N13	W68	6398	12	6.5	8	SF			3	E	19		
0243	RAMY	11	16182	16213	1655	N10	W44	6397	12	8.4	37	SF					24		F
	HOLL	11	1618	1621	1656	N08	W43	6397	12	8.4	38	SF			3	E	27		F
	HOLL	11	1620	1624	1654	N12	W45	6397	12	8.3	34	SF			3	E	22		
0244	RAMY	11	1626	1627	1632	S12	W80	6402	12	5.6	6	SF			3	E	18		
	RAMY	11	1728	1800	1810	N20	W51	6395	12	7.8	42	SF			3	E	53		F
	RAMY	11	1813	1815	1827	S10	W78	6402	12	5.9	14	SF			3	E	15		
0245	RAMY	11	1815	1821	1831	N12	W66	6398	12	6.8	16	SF	M	1.3	3	E	25		F
	RAMY	11	1842	18421	1846	N15	E79	6412	12	17.7	4	SF					16		F
	HOLL	11	1842	1842	1846	N15	E80	6412	12	17.8	4	SF			3	E	16		F
0246	HOLL	11	1842	1843	1847	N15	E78	6412	12	17.7	5	SF			3	E	15		
	HOLL	11	18535	18584	1910	S10	W80	6402	12	5.8	17	SF					19		
	RAMY	11	1853	1902	1909	S10	W80	6402	12	5.8	16	SF			3	E	25		
0247	RAMY	11	1858	1858	1911	S10	W81	6402	12	5.7	13	SF			3	E	13		

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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)	
0256		11	1948	1950*	2013	N15	E81	6412A	12	17.9	25	SF				72		K
	HOLL	11	1948	1950	2013	N15	E81	6412A	12	17.9	25	SF	3	E		82		
	HOLL	11	1948	2006	2013	N15	E81	6412A	12	17.9	25	SF		E		62		K
0257	RAMY	11	1951	1954	1959	N16	W54	6395	12	7.7	8	SF	3	E		55		
0258		11	19581	20041	2010	N14	W69	6398	12	6.6	12	SF	C 3.7			62		F
	HOLL	11	1958	2004	2012	N14	W67	6398	12	6.8	14	SF	C 3.7	3	E	89		F
	RAMY	11	1959	2005	2008	N13	W71	6398	12	6.5	9	SF		3	E	34		F
0259	RAMY	11	2010	2013	2017	N05	E48	6410	12	15.4	7	SF		3	E	17		
0260	HOLL	11	2011	2017	2027	S25	W90	6387	12	4.9	16	SF		3	E	21		
0261		11	20142	2017	2024	S11	W81	6402	12	5.7	10	SF				48		
	PALE	11	2013E	2016U	2026D	S10	W80	6402	12	5.8	13D	SF	3	E	62			
	HOLL	11	2014	2017	2022	S13	W81	6402	12	5.7	8	SN	3	E	43			
	RAMY	11	2016	2017	2025	S10	W81	6402	12	5.7	9	SF	3	E	38			
0262		11	2036	20371	2044	N09	W44	6397	12	8.5	8	SF				13		
	RAMY	11	2036	2037	2043	N09	W44	6397	12	8.5	7	SF	3	E	10			
	HOLL	11	2036	2038	2046	N09	W43	6397	12	8.6	10	SF	3	E	16			
0263	HOLL	11	2039	2100	2112	S25	W90	6387	12	4.9	33	SN	3	E	69		E	
0264	HOLL	11	2046	2047	2053	S11	W80	6402	12	5.8	7	SF	M 6.5	3	E	37		
0265	HOLL	11	2213	2214	2223	N07	E50	6410	12	15.7	10	SF		3	E	13		
0266		11	2220*	2221*	2307	N15	W69	6398	12	6.7	47	SF	M 1.1			46		EF
	HOLL	11	2220	2221	2228	N16	W66	6398	12	6.9	8	SF		3	E	50		
	PALE	11	2222E	2310U	2336	N17	W68	6398	12	6.8	74D	SF		3	E	57		F
	HOLL	11	2257	2306	2318	N13	W72	6398	12	6.5	21	SN	M 1.1	3	E	31		E
0267		11	2223	2230*	2349D	N20	W66	6399	12	6.9	86D	SN				60		EFK
	HOLL	11	2223	2230	2349D	N20	W66	6399	12	6.9	86D	SN		E	63		K	
	HOLL	11	2223	2302	2349D	N20	W66	6399	12	6.9	86D	SN	3	E	58		FE	
0268	LEAR	12	0013	0018	0040	N20	W67	6399	12	6.9	27	SF		3	E	17		
0269	LEAR	12	0116	0129	0150	N20	W67	6399	12	6.9	34	SF		3	E	14		
0270		12	02522	02581	0310	N21	W67	6399	12	7.0	18	SF	C 4.0			62	2.2	EFIJ
	VORO	12	0252		0300D	N22	W61	6399	12	7.4	8D	1F	2	C	0258	81	2.2	EIJ
	LEAR	12	0253	0259	0308	N23	W69	6399	12	6.8	15	SF	C 4.0	3	E	86		
	PALE	12	0254	0258	0311	N19	W70	6399	12	6.8	17	SF		2	E	20		F
0271	YUNN	12	0330E	0335	0338D	N14	W51	6397	12	8.3	8D	SN		P	31	0.5		
0272	YUNN	12	0330E	0338U	0345D	S26	W90	6387	12	5.1	15D			P	0338			
0273	YUNN	12	0330	0332	0347	N19	E80	6412A	12	18.2	17	SN		P	16			
0274		12	0325	03298	0352	N20	W68	6399	12	6.9	27	1N				112		DE
	YUNN	12	0315E	0337U	0345D	N20	W67	6399	12	7.0	30D	1B		P	0337	126		
	WATU	12	0325	0331	0345	N19	W69	6399	12	6.9	20	1F		C	0331	90		
	PEKG	12	0329E	0329	0335	N20	W70	6399	12	6.8	6D	1N		P	0329	168		D
	URUM	12	0335E	0337	0415	N21	W67	6399	12	7.0	40D	SN		C		64		E
0275	URUM	12	0340	0341	0349	N12	W69	6398	12	6.9	9	SN		C	48		E	

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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	Type	Area Measurement			Remarks		
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0276		12 0622*	0627*	0709	N20	W71	6399	12	6.8	47	1N	M	1.6			127		ADEFKY	
	URUM	12 0622	0638	0646	N20	W69	6399	12	7.0	24	SN			C		32		D	
	LEAR	12 0625	0627	0723	N20	W73	6399	12	6.7	58	SF			E		37		K	
	LEAR	12 0625	0703	0723	N20	W73	6399	12	6.7	58	1B	M	1.6	3	E	192			
	ABST	12 0626	0628	0642	N21	W71	6399	12	6.8	16	1F			C	0628	87		D	
	YUNN	12 0642E	0708	0718D	N21	W78	6399	12	6.3	36D	SN			P		79			
	ABST	12 0646	0704	0716D	N21	W73	6399	12	6.7	30D	2N			C	0707	306		AFK	
	WATU	12 0650	0705	0716	N18	W66	6399	12	7.2	26	1N			C	0705	140			
	URUM	12 0659	0707	0725	N20	W68	6399	12	7.1	26	1N			C		193		E	
	SVTO	12 0700E	0704U	0725D	N19	W66	6399	12	7.2	25D	SN		2	E		80		Y	
0277		12 06264	0635	0640	N18	E76	6412A	12	18.0	14	1N					92		D	
	URUM	12 0626	0635	0640	N17	E76	6412A	12	18.0	14	1N			C		96		D	
	ABST	12 0630	0635	0640D	N19	E77	6412A	12	18.1	10D	1F			C	0635	87		D	
0278		12 07396	07453	0808	N04	E44	6410	12	15.6	29	SN					81	2.0	E	
	URUM	12 0739	0748	0800	N04	E42	6410	12	15.4	21	SB			C		64		E	
	LEAR	12 0742	0745	0820	N05	E42	6410	12	15.5	38	SF		3	E		75			
	SVTO	12 0743	0745	0810	N05	E45	6410	12	15.7	27	SF		3	E		54			
	ABST	12 0745	0746	0803	N03	E47	6410	12	15.8	18	SN			C	0746	131	2.0	E	
0279		12 07534	0758*	0843	N21	W71	6399	12	6.9	50	1N	M	5.1			131	0.9	EFJK	
	LEAR	12 0753	0758	0848	N21	W72	6399	12	6.8	55	1F			E		96		K	
	LEAR	12 0753	0810	0848	N21	W72	6399	12	6.8	55	1N	M	5.1	3	E	188			
	URUM	12 0756	0806	0835	N22	W67	6399	12	7.2	39	SB			C		64	0.9	E	
	ABST	12 0757	0807	0842	N20	W73	6399	12	6.7	45	1N			C	0807	175		FKJ	
0280		12 0757	0758*	0830	N19	W60	6395	12	7.7	33	SF					48		K	
	LEAR	12 0757	0758	0830	N19	W60	6395	12	7.7	33	SF			E		29		K	
	LEAR	12 0757	0813	0830	N19	W60	6395	12	7.7	33	SF		3	E		66			
0281	LEAR	12 0831	0834	0843	N19	W57	6395	12	8.0	12	SF		3	E		19			
0282	LEAR	12 0849	0858	0908	N20	W71	6399	12	6.9	19	SF	C	8.2	3	E		42		
0283	SVTO	12 0905	0908	0916	N20	E78	6412A	12	18.3	11	SN		3	E		65			
0284	LEAR	12 0941	0948	0952	N19	W58	6395	12	8.0	11	SF	C	4.9	3	E		35		
0285	LEAR	12 0948	0952	0953	N05	E41	6410	12	15.5	5	SF		3	E		51			
0286		12 1058	1102	1140	N20	W76	6399	12	6.6	42	SF	M	1.6			21			
	SVTO	12 1058	1102	1201	N19	W74	6399	12	6.8	63	SF	M	1.6	3	E		21		
	HTPR	12 1112E		1120	N21	W77	6399	12	6.6	8D	F			C					
0287		12 1101E	1101U	1117	S24	W90	6387	12	5.5	16D	SN					12			
	SVTO	12 1101E	1101U	1108	S27	W90	6387	12	5.4	7D	SF		3	E		12			
	HTPR	12 1112E		1126	S20	W90	6387	12	5.6	14D	N			C					
0288		12 11253	1128	1150	S10	W90	6402	12	5.7	25	SF					15			
	HTPR	12 1125		1200	S10	W90	6402	12	5.7	35	F			C					
	SVTO	12 1128	1128	1139	S11	W90	6402	12	5.7	11	SF		3	E		15			
0289	SVTO	12 1229	1230U	1239D	S11	W90	6402	12	5.7	10D	SF		2	E		34			
		12 1231		1238	No Flare Patrol														
0290		12 1339	1323*	1356	N21	W78	6399	12	6.6	17	SF					39			
	HTPR	12 1316E	1323	1400	N23	W78	6399	12	6.5	44D	SF			C					
	SVTO	12 1339	1347	1352	N19	W78	6399	12	6.6	13	SF		3	E		39			
0291	HTPR	12 1402		1415	S20	W90	6387	12	5.7	13	N			C					
0292	HOLL	12 1413E	1413U	1425	N10	W72	6398	12	7.2	12D	SF	M	8.9	2	E		54		
0293	HTPR	12 1414	1415	1417D	N20	E75	6412A	12	18.3	3D	SN			C					
0294	RAMY	12 1508		1629D	N22	W75	6399	12	6.9	81D	SF	C	4.7	3	E				

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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	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0319	RAMY	13	1126	1129	1150	N17	E55	6412	12	17.6	24	SF		2	E		43		F
0320	RAMY	13	1315	1324	1333	N01	E22	6410	12	15.2	18	SF	C 6.1	3	E		11		
0321	RAMY	13	1344	1354	1440	N03	E27	6410	12	15.6	56	1N	M 1.1	3	E		135		F
0322	RAMY	13	1410	1415	1419	N14	W69	6397	12	8.4	9	SF		3	E		14		
0323	RAMY	13	1615	1616	1629	N16	W78	6395	12	7.8	14	SF	M 1.5	3	E		17		
0324	RAMY	13	1658	1700	1702	N15	W81	6395	12	7.6	4	SF		3	E		25		
0325		13	1740	17443	1800	N09	W71	6397	12	8.4	20	SF					33		K
	RAMY	13	1740	1744	1800	N09	W70	6397	12	8.5	20	SF		3	E		33		
	RAMY	13	1740	1747	1800	N09	W70	6397	12	8.5	20	SF			E		42		K
	PALE	13	1745E	1745U	1801D	N09	W72	6397	12	8.3	16D	SF		3	E		23		
0326		13	1749	1750	1821	N17	E57	6412A	12	18.1	32	SF	C 8.2				32		F
	PALE	13	1748E	1801U	1804D	N17	E59	6412A	12	18.2	16D	SF		3	E		35		F
	RAMY	13	1749	1750	1821	N17	E55	6412A	12	17.9	32	SF	C 8.2	3	E		30		F
0327	PALE	13	2009	2009	2020D	N20	E58	6412A	12	18.3	11D	SF	C 5.4	3	E		10		F
		13	2013		2020														
		13	2114		2134														
0328	PALE	13	2151E	2153	2158	N20	E28	6413	12	16.0	7D	SF		2	E		18		
0329		14	01465	0155*	0214	N19	E50	6412	12	17.9	28	SF	C 3.1				84	2.2	DF
	LEAR	14	0146	0206	0227	N18	E50	6412	12	17.9	41	SF	C 3.1	3	E		74		
	PEKG	14	0151	0155	0201	N20	E51	6412	12	18.0	10	1N			P	0155	126	2.2	D
	PALE	14	0210E	0210U	0241D	N19	E49	6412	12	17.8	31D	SF		2	E		52		F
0330	LEAR	14	0316	0316	0340	N16	E47	6412	12	17.7	24	SF		3	E		23		
0331	LEAR	14	0345	0352	0406	N15	E48	6412	12	17.8	21	SF	C 3.0	3	E		41		F
0332	LEAR	14	0404	0408	0423	N03	E19	6410	12	15.6	19	SF	C 2.5	3	E		31		F
0333		14	06302	06351	0644	N20	E34	6413	12	16.9	14	SN	C 2.3				52	1.2	EF
	LEAR	14	0630	0636	0643	N20	E32	6413	12	16.7	13	SF	C 2.3	3	E		20		F
	PEKG	14	0632	0635	0644	N20	E36	6413	12	17.0	12	SN			P	0635	84	1.2	E
0334	LEAR	14	0631	0631	0640	N18	E47	6412	12	17.8	9	SF		3	E		11		
0335		14	0827	08415	0906	N02	E09	6410	12	15.0	39	SN	C 4.9				68	1.0	F
	LEAR	14	0827	0846	0906	N01	E08	6410	12	14.9	39	SF	C 4.9	3	E		42		F
	YUNN	14	0830E	0841	0856D	N04	E10	6410	12	15.1	26D	SN			P		94	1.0	
0336		14	0832	08415	0901	N18	E45	6412	12	17.8	29	SN					24	0.2	F
	LEAR	14	0832	0846	0906	N16	E46	6412	12	17.8	34	SF		3	E		31		F
	YUNN	14	0841E	0841	0856	N20	E44	6412	12	17.7	15D	SN			P		16	0.2	
0337		14	08415	08462	0856	N20	E33	6413	12	16.9	15	SN					62	1.1	
	YUNN	14	0841	0848	0856	N21	E34	6413	12	17.0	15	SN			C		79	1.1	
	LEAR	14	0846	0846	0856	N20	E32	6413	12	16.8	10	SF		3	E		45		
		14	0937		1004														
0338	HTPR	14	1023	1025	1045	N20	E47	6412	12	18.0	22	SN			C	1025	100	1.6	
		14	1027		1033														
0339	HTPR	14	1042	1047	1100	N05	E20	6410	12	15.9	18	SN			C	1047	60	0.6	
0340	HTPR	14	1117	1121	1126	N08	W85	6397	12	8.1	9	SN			C				A
0341	HTPR	14	1147	1148	1153	N14	E52	6412	12	18.4	6	SN			C	1148	70	1.1	

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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	Time (UT)	Area Measurement		Remarks											
																	Apparent (10-6 Disk)	Corr (Sq Deg)												
0342		14	12453	12471	1303	N06	E10	6410	12	15.3	18	SN	C	3.0			114	1.8	EF											
	HTPR	14	1245	1248	1300	N07	E10	6410	12	15.3	15	SB				1248	180	1.8	E											
	RAMY	14	1246	1247	1309	N05	E10	6410	12	15.3	23	SF	C	3.0	3		49		FE											
	KANZ	14	1248	1248	1300	N05	E10	6410	12	15.3	12	SN																		
0343		14	1333	13339	1354	N14	E43	6412	12	17.8	21	SF	M	3.9			55	0.9	H											
	KANZ	14	1333	1333	1345	N14	E46	6412	12	18.0	12	SF																		
	SVTO	14	1339E	1339U	1339D	N16	E32	6412	12	17.0	12D	SF	M	3.9	2		50		H											
	HTPR	14	1342E	1342	1402	N12	E50	6412	12	18.3	20D	SN				1342	60	0.9	H											
0344		14	1405	1406	1415	N15	E51	6412	12	18.4	10	SN	C	7.5			70	1.5	H											
	HTPR	14	1405	1406	1415	N14	E50	6412	12	18.4	10	SN				1406	95	1.5	H											
	SVTO	14	1406E	1406U	1418D	N16	E52	6412	12	18.5	12D	SF	C	7.5	2		45		H											
		14	1525		1534	No Flare Patrol																								
	14	1551		1601	No Flare Patrol																									
	14	1607		1616	No Flare Patrol																									
0345	RAMY	14	1641E	1641U	1651D	N16	E43	6412	12	17.9	10D	SN	C	6.5	3	E		40		F										
0346	HOLL	14	1717	1742	1754	N17	E42	6412	12	17.9	37	SF	C	2.4	3	E		29		F										
0347	HOLL	14	1727	1728	1731	N04	E12	6410	12	15.6	4	SF			3	E		16		F										
0348	HOLL	14	1755	1756	1810	N17	E42	6412	12	17.9	15	SF			3	E		12		F										
0349	HOLL	14	1900	1907	1911	N14	E44	6412	12	18.1	11	SF	C	1.8	3	E		20												
0350	HOLL	14	1949E	1949U	1958D	N13	E44	6412	12	18.1	9D	SF	C	4.7	2	E		32												
																					14	2009		2032	No Flare Patrol					
0351	PALE	14	2113	2114	2156	N21	E41	6412	12	18.0	43	SF	C	2.5	3	E		40												
0352		14	22162	2219	2228	N13	E43	6412	12	18.2	12	SF	C	3.9			48		EF											
	PALE	14	2216	2219	2229	N15	E44	6412	12	18.2	13	SF			3	E	59													
	LEAR	14	2218	2219	2228	N12	E41	6412	12	18.0	10	SN	C	3.9	3	E	56		FE											
	HOLL	14	2220E	2220U	2220D	N13	E43	6412	12	18.2	10D	SF			1	E	28													
0353		14	23101	23111	2332	N18	E36	6412	12	17.7	22	SF					44		F											
	LEAR	14	2310	2312	2338	N19	E36	6412	12	17.7	28	SF			3	E	57		F											
	PALE	14	2311	2311	2327	N18	E36	6412	12	17.7	16	SF			3	E	32													
0354	LEAR	15	0113	0115	0144	N18	E36	6412	12	17.8	31	SF			3	E	18													
0355	LEAR	15	0137	0141	0202	N05	E06	6410	12	15.5	25	SF			3	E		25		F										
0356		15	02109	02191	0230	N18	E34	6412	12	17.7	20	SF					18		F											
	LEAR	15	0210	0220	0234	N18	E33	6412	12	17.6	24	SF			3	E	22		F											
	PALE	15	0219	0219	0226	N19	E35	6412	12	17.8	7	SF			3	E	15													
0357		15	03492	03513	0400	N12	E36	6412	12	17.9	11	SN					62	1.4	D											
	PEKG	15	0349	0351	0357	N13	E37	6412	12	17.9	8	SN				P	0351	105	1.4	D										
	LEAR	15	0351	0354	0403	N12	E36	6412	12	17.9	12	SF			3	E	19													
0358	LEAR	15	0412	0415	0424	N12	E36	6412	12	17.9	12	SF	C	2.4	3	E		15												
0359		15	05355	05432	0553	N12	E36	6412	12	17.9	18	1N	M	1.8			127	1.8	DEFH											
	PEKG	15	0535	0545	0552	N13	E37	6412	12	18.0	17	1B				P	0545	210	2.8	DH										
	LEAR	15	0540	0543	0556	N12	E35	6412	12	17.9	16	1N	M	1.8	3	E	100		FE											
	WATU	15	0543E	0543	0551	N12	E36	6412	12	17.9	8D	SN				P	0543	70	0.9											
0360	LEAR	15	0650	0653	0716	N17	W17		12	14.0	26	SF	C	3.0	3	E		17		F										
0361		15	0858*	0903*	0956	N18	E32	6412	12	17.8	58	SF					71	1.6	FU											
	LEAR	15	0858	0926	0957	N16	E29	6412	12	17.6	59	SF			3	E	45		F											
	HTPR	15	0900	0903	0955	N18	E35	6412	12	18.0	55	SF				C	0903	130	1.6											
	SVTO	15	0950	0955	1006D	N21	E31	6412	12	17.8	16D	SF			3	E	39		U											

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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	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0362		15	10111	10132	1024	N02	E04	6410	12	15.7	13	SF					42	0.8	F	
	HTPR	15	1011	1014	1025	N02	E07	6410	12	15.9	14	SF			C	1014	80	0.8		
	SVTO	15	1012	1012U	1020D	N03	E03	6410	12	15.6	8D	SF		3	E		12		F	
	LEAR	15	1012	1013	1024	N02	E03	6410	12	15.6	12	SF		3	E		33		F	
	KANZ	15	1012	1015	1022	N02	E05	6410	12	15.8	10	SF			V					
0363		15	10552	10576	1112	N20	E34	6412	12	18.0	17	SF					71	1.6	U	
	HTPR	15	1055	1103	1115	N19	E35	6412	12	18.1	20	SF			C	1103	130	1.6		
	SVTO	15	1056	1056U	1101D	N22	E34	6412	12	18.1	5D	SF		3	E		12		U	
	KANZ	15	1057	1057	1108	N20	E34	6412	12	18.0	11	SF			V					
0364	KANZ	15	1147	1147	1151	N14	E32	6412	12	17.9	4	SF				V				
0365		15	1151*	1159*	1301	N04	E02	6410	12	15.6	70	SF	C 4.3				69		EF	
	KANZ	15	1151	1159	1301	N03	E03	6410	12	15.7	70	SF			V				EF	
	RAMY	15	1205	1213	1258D	N04	E01	6410	12	15.6	53D	SF	C 4.3	3	E		69			
0366	RAMY	15	1428	1428	1442	N16	E30	6412	12	17.9	14	SF		3	E		20		F	
0367	RAMY	15	1532	1532	1536	N16	E29	6412	12	17.8	4	SF		3	E		15		F	
0368	RAMY	15	1613	1613	1618	N19	E30	6412	12	18.0	5	SF		3	E		10			
0369	RAMY	15	1623	1634	1651	N25	E13	6413	12	16.7	28	SF	C 1.6	3	E		21		F	
0370	RAMY	15	1736	1737	1746	N20	E13	6413	12	16.7	10	SF		3	E		19			
0371		15	18192	18201	1832	N18	E20	6412	12	17.3	13	SF					14		F	
	RAMY	15	1819	1820	1835	N17	E24	6412	12	17.6	16	SF		3	E		15		F	
	PALE	15	1821	1821	1828	N19	E16	6412	12	17.0	7	SF		3	E		12		F	
0372		15	1915	1916	1929	N14	E28	6412	12	17.9	14	SF	C 1.8				20			
	PALE	15	1915	1916	1927	N15	E29	6412	12	18.0	12	SF		3	E		17			
	RAMY	15	1915	1916	1931	N13	E27	6412	12	17.8	16	SF	C 1.8	3	E		22			
		15	2101		2139	No Flare Patrol														
0373	LEAR	15	2317	2318	2325	N13	E26	6412	12	17.9	8	SF		3	E		20			
0374	PALE	15	2359	2359	2406	N18	E25	6412	12	17.9	7	SF	C 1.7	3	E		14			
0375	PALE	16	0025	0027	0038	N03	W03	6410	12	15.8	13	SF		3	E		16			
0376		16	0027*	0032*	0130	N14	E25	6412	12	17.9	63	SF					28		FK	
	LEAR	16	0027	0032	0120	N13	E26	6412	12	18.0	53	SF			E		26		K	
	LEAR	16	0027	0045	0120	N13	E26	6412	12	18.0	53	SF		3	E		31		F	
	PALE	16	0028	0055	0139	N15	E26	6412	12	18.0	71	SF		3	E		26			
	LEAR	16	0126	0130	0142	N17	E21	6412	12	17.6	16	SF		3	E		30			
0377		16	0202*	0213*	0245	N18	E22	6412	12	17.8	43	SF	C 3.4				67	1.0	EF	
	PALE	16	0202	0214	0251	N19	E23	6412	12	17.8	49	SF	C 3.4	3	E		65		F	
	LEAR	16	0207	0213	0245	N17	E22	6412	12	17.8	38	SF		3	E		51		F	
	PEKG	16	0223	0226	0240	N18	E21	6412	12	17.7	17	SN			P	0226	84	1.0	E	
0378	YUNN	16	0325E	0325	0345	N14	E25	6412	12	18.0	20D	SN			P		24	0.3		
0379	YUNN	16	0325E	0325	0339	N05	W05	6410	12	15.8	14D	SN			P		16	0.2		
0380		16	0415	0417*	0428	N20	E22	6412	12	17.8	13	1N					128	1.5	E	
	PEKG	16	0415	0417	0428	N18	E20	6412	12	17.7	13	1N			P	0417	210	2.4	E	
	YUNN	16	0429E	0429	0435D	N22	E24	6412	12	18.0	6D	SF			P		47	0.6		
0381	YUNN	16	0429E	0429	0435D	N04	W07	6410	12	15.7	6D	SN			P		79	0.8		
0382		16	0445	04452	0454	N13	E25	6412	12	18.1	9	SN	C 8.1				146	2.0	EF	
	PEKG	16	0444E	0445	0449	N12	E25	6412	12	18.1	5D	1B			P	0445	294	3.4	E	
	LEAR	16	0445	0445	0450	N12	E24	6412	12	18.0	5	SF	C 8.1	3	E		98		F	
	YUNN	16	0447E	0447	0503	N14	E25	6412	12	18.1	16D	SN			P		47	0.6		

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Grp #	Sta	Start Day (UT)	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)		
0383		16 05299	0531*	0547	N13 E22	6412	12 17.9	18	SF C 2.4			32	0.5	F	
	LEAR	16 0529	0531	0537	N13 E23	6412	12 18.0	8	SF C 2.4	3	E	26		F	
	YUNN	16 0534E	0537	0600	N14 E22	6412	12 17.9	260	SN		P	47	0.5		
	LEAR	16 0538	0541	0545	N13 E22	6412	12 17.9	7	SF	3	E	24		F	
0384		16 06026	06076	0623	N13 E23	6412	12 18.0	21	SN C 2.8			112	1.5	FU	
	YUNN	16 0602	0613	0636	N13 E23	6412	12 18.0	34	SN		C	47	0.5		
	TACH	16 0603	0607	0612D	N14 E21	6412	12 17.8	90	1B	2	C	0607	332	3.6	U
	WATU	16 0605	0610	0621	N13 E24	6412	12 18.1	16	SF		C	0610	40	0.5	
	LEAR	16 0608	0609	0611	N12 E24	6412	12 18.1	3	SF C 2.8	3	E	28		UF	
0385	TACH	16 0638	0640	0701	N17 E24	6412	12 18.1	23	SB	2	C	0640	87	1.0	U
0386		16 07262	07292	0736	N13 E23	6412	12 18.0	10	SN C 2.0			135	2.0	FU	
	TACH	16 0726	0731	0737D	N14 E21	6412	12 17.9	110	1B	2	C	0731	321	3.5	U
	WATU	16 0727	0731	0736	N13 E24	6412	12 18.1	9	SF		C	0731	50	0.6	
	LEAR	16 0728	0729	0735	N12 E23	6412	12 18.0	7	SF C 2.0	3	E	34		F	
0387	LEAR	16 1027	1027	1033	N15 E17	6412	12 17.7	6	SF C 1.7	3	E	19			
		16 1053		1153	No Flare Patrol										
0388		16 1206*	1227	1225	N06 W14	6410	12 15.4	19	SF			29		F	
	SVTO	16 1206	1208U	1211D	N07 W15	6410	12 15.4	50	SF	2	E	36		F	
	RAMY	16 1215E	1218U	1221	N08 W16	6410	12 15.3	60	SF	3	E	35			
	RAMY	16 1225	1227	1229	N03 W11	6410	12 15.7	4	SF	3	E	15			
		16 1212		1214	No Flare Patrol										
0389	RAMY	16 1227	1228	1236	N16 E14	6412	12 17.6	9	SF C 2.8	3	E	15			
0390		16 1309*	1312*	1325	N17 E16	6412	12 17.8	16	SF			18		F	
	RAMY	16 1309	1312	1318	N16 E13	6412	12 17.5	9	SF	3	E	20			
	RAMY	16 1322	1322	1332	N18 E19	6412	12 18.0	10	SF	3	E	15		F	
0391	RAMY	16 1338	1341	1348	N07 W17	6410	12 15.3	10	SF	3	E	14			
0392		16 14157	1420*	1430	N03 W12	6410	12 15.7	15	SF			14			
	RAMY	16 1415	1420	1422	N03 W12	6410	12 15.7	7	SF	3	E	15			
	RAMY	16 1422	1434	1437	N03 W13	6410	12 15.6	15	SF	3	E	13			
0393	RAMY	16 1509	1511	1530	N00 W22	6410	12 15.0	21	SF	3	E	24		F	
0394	PALE	16 1826	1833	1845	N03 W13	6410	12 15.8	19	SF	3	E	26			
0395	PALE	16 1839	1839	1845	N12 E00	6415	12 16.8	6	SF	3	E	13			
0396	PALE	16 2053	2102	2114	N15 E14	6412	12 17.9	21	SF	3	E	20			
0397	PALE	16 2124	2128	2147	N15 E14	6412	12 17.9	23	SF C 2.2	3	E	26			
0398		17 0256	0259	0302	N18 W01	6412	12 17.0	6	SN			32	0.4	D	
	LEAR	17 0256	0259	0302	N17 W01	6412	12 17.0	6	SF	3	E	21			
	PEKG	17 0259E	0259	0303	N18 W01	6412	12 17.0	40	SN		P	0259	42	0.4	D
0399		17 0315*	0317*	0401	N14 E07	6412	12 17.7	46	SF C 3.5			72	0.5	FK	
	LEAR	17 0315	0317	0404	N14 E08	6412	12 17.7	49	1F C 3.5	3	E	112		F	
	PALE	17 0315	0320U	0334D	N16 E05	6412	12 17.5	190	SF	3	E	45			
	LEAR	17 0315	0337	0404	N14 E08	6412	12 17.7	49	SF C 6.0		E	81		K	
	WATU	17 0337	0339	0356	N14 E08	6412	12 17.7	19	SN		C	0339	50	0.5	
0400		17 0433*	0457*	0536	N14 E10	6412	12 17.9	63	SN C 2.5			102	1.8	DF	
	LEAR	17 0433	0509	0557	N13 E09	6412	12 17.9	84	SF C 2.5	3	E	36		F	
	PEKG	17 0455	0457	0516	N14 E10	6412	12 18.0	21	SN		P	0455	168	1.8	D
0401		17 0630*	06396	0656	N15 E08	6412	12 17.9	26	1B M 1.1			207	2.6	EFTZ	
	LEAR	17 0630	0639	0655	N16 E04	6412	12 17.6	25	1N M 1.1	3	E	108		FE	
	TACH	17 0636	0640	0656	N14 E09	6412	12 17.9	20	1B	2	C	0640	316	3.4	TZ
	WATU	17 0637	0640	0654	N15 E08	6412	12 17.9	17	SB		C	0640	110	1.2	
	PEKG	17 0641	0645	0658	N14 E09	6412	12 17.9	17	1B		C	0645	294	3.2	E

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Grp #	Sta	Start Day	Start (UT)	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)		
		17	0822		0838		No Flare												
		17	1041		1056		No Flare												
0402		17	14121	14131	1422	N14	E05 6412	12	18.0	10	SF					14			F
	SVTO	17	1412	1414	1422	N14	E04 6412	12	17.9	10	SF		2	E		17			
	RAMY	17	1413	1413	1421	N14	E06 6412	12	18.0	8	SF		3	E		12			F
0403		17	1459	1459	1507	N22	W04 6413	12	17.3	8	SF C 1.2					24			
	RAMY	17	1459	1459	1507	N22	W03 6413	12	17.4	8	SF C 1.2		3	E		18			
	HOLL	17	1500E	1500U	1515D	N21	W04 6413	12	17.3	15D	SF		1	E		30			
0404		17	15164	1517*	1552	N14	E05 6412	12	18.0	36	1N M 2.4					115			FK
	RAMY	17	1516	1517	1552	N14	E05 6412	12	18.0	36	SF			E		17			K
	RAMY	17	1516	1528	1552	N14	E05 6412	12	18.0	36	1B M 2.4		3	E		121			
	HOLL	17	1520	1529	1552	N14	E04 6412	12	17.9	32	1B M 2.4		3	E		206			F
0405	RAMY	17	1558	1611	1624	N14	E03 6412	12	17.9	26	SF			3	E		21		F
0406	RAMY	17	1625	1625	1630	N11	W12 6415	12	16.8	5	SF C 1.7		3	E		22			F
0407	RAMY	17	1747	1813	1823	N19	W08 6412	12	17.1	36	SF			3	E		26		F
0408	HOLL	17	1849E	1853U	1856D	N04	W14 6413A	12	16.7	7D	SF			2	E		25		
0409	RAMY	17	1851	1911	1920	N12	W13 6415	12	16.8	29	SF C 2.0		3	E		14			F
0410	HOLL	17	1906	1923	2009	N17	W06 6412	12	17.3	63	SF			3	E		75		
0411		17	1921*	1932*	2043	N03	W25 6410	12	15.9	82	SN					29			FK
	RAMY	17	1921	1932	2054	N03	W25 6410	12	15.9	93	SB			E		36			K
	RAMY	17	1921	1956	2054	N03	W25 6410	12	15.9	93	SF		3	E		37			F
	HOLL	17	2013	2015	2020	N02	W25 6410	12	16.0	7	SF		3	E		14			
0412	RAMY	17	2023	2028	2044	N17	W01 6412	12	17.8	21	SF			3	E		39		
0413		17	20247	2024*	2100	N12	W13 6415	12	16.9	36	SF C 3.1					30			F
	RAMY	17	2024	2024	2058	N12	W13 6415	12	16.9	34	SF		3	E		14			F
	HOLL	17	2031	2035	2102	N11	W13 6415	12	16.9	31	SF C 3.1		3	E		47			
0414		17	20592	21017	2116	N03	W28 6410	12	15.8	17	SF					28			F
	RAMY	17	2059	2101	2114	N04	W28 6410	12	15.8	15	SF		3	E		14			F
	HOLL	17	2101	2108	2118	N02	W28 6410	12	15.8	17	SF		3	E		43			F
0415	HOLL	17	2145	2146	2154	N11	W14 6415	12	16.8	9	SF			3	E		28		F
0416		17	22059	2205*	2248	N10	W16 6415	12	16.7	43	SF					31			F
	HOLL	17	2205	2205	2214	N10	W16 6415	12	16.7	9	SF		3	E		20			F
	LEAR	17	2214	2304	2321	N11	W16 6415	12	16.7	67	SF		3	E		42			F
0417		17	22301	2233	2246	N04	W40 6410	12	14.9	16	SF C 1.8					42			H
	HOLL	17	2230	2238U	2244	N04	W39 6410	12	15.0	14	SF		3	E		28			H
	LEAR	17	2231	2233	2249	N04	W40 6410	12	14.9	18	SF C 1.8		3	E		55			
0418	LEAR	17	2254	2300	2326	N03	W27 6410	12	15.9	32	SF C 2.0		3	E		56			
0419		18	00512	0054	0100	N04	W42 6410	12	14.9	9	SF					74	1.6		DHIJT
	VORO	18	0051	0054	0102	N05	W42 6410	12	14.9	11	SF		2	C	0054	116	1.6		DHIJT
	LEAR	18	0053	0054	0058	N04	W41 6410	12	15.0	5	SF		3	E		32			
0420	VORO	18	0123	0128	0133	N05	W42 6410	12	14.9	10	SF		2	C	0128	81	1.1		DHIJT
0421	VORO	18	0138	0141	0156	N05	W42 6410	12	14.9	18	SF		2	C	0141	63	0.8		DHIJT
0422		18	0149*	0152*	0228	N11	W18 6415	12	16.7	39	SF M 1.8					102	1.5		DEFIJT
	VORO	18	0149	0152	0209	N12	W18 6415	12	16.7	20	SF		2	C	0152	134	1.5		EIJT
	LEAR	18	0149	0152	0214	N10	W18 6415	12	16.7	25	SF M 1.8		3	E		66			FE
	PEKG	18	0152	0155	0232	N10	W20 6415	12	16.6	40	SN			P	0155	168	1.9		D
	LEAR	18	0227	0229	0239	N11	W17 6415	12	16.8	12	SF		3	E		15			
	VORO	18	0227	0232	0238	N11	W16 6415	12	16.9	11	SF		2	C	0232	63	0.7		DIJT
	PEKG	18	0230	0232	0236	N11	W17 6415	12	16.8	6	SN			P	0232	168	1.8		D

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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)	
0423	VORO	18	0152	0153	0202	N12	W02	6412	12	17.9	10	SF		2	C	0153	99	1.0	DIJT
0424		18	0225*	0229*	0244	N07	W40	6410	12	15.1	19	SF					60	0.9	DIJT
	VORO	18	0225	0231	0238	N09	W39	6410	12	15.2	13	SF		2	C	0231	54	0.7	DIJT
	LEAR	18	0227	0229	0243	N07	W37	6410	12	15.3	16	SF		3	E		33		
	PEKG	18	0232	0235	0239	N09	W38	6410	12	15.2	7	SN			P	0232	63	0.8	D
	PEKG	18	0235	0245	0247	N04	W43	6410	12	14.9	12	SN			P	0245	42	0.6	D
	VORO	18	0242	0245	0252	N05	W42	6410	12	15.0	10	SF		2	C	0245	108	1.4	DIJT
0425		18	02531	02562	0312	N13	W03	6412	12	17.9	19	1N C 9.9					285	3.6	EFIJT
	LEAR	18	0253	0258	0319	N12	W03	6412	12	17.9	26	1F C 9.9	3	E			156		F
	VORO	18	0254		0300D	N14	W03	6412	12	17.9	60	1F		2	C	0257	278	2.9	EIJT
	PEKG	18	0254	0256	0304	N13	W03	6412	12	17.9	10	1B			P	0256	420	4.4	E
	MITK	18	0254	0256	0313	N12	W02	6412	12	18.0	19	SN			C	0256			E
0426		18	04322	04351	0443	N14	W04	6412	12	17.9	11	SN					78	0.9	E
	WATU	18	0432	0435	0447	N16	W05	6412	12	17.8	15	SF			C	0435	30	0.5	
	PEKG	18	0434	0436	0439	N13	W04	6412	12	17.9	5	SN			P	0436	126	1.3	E
0427		18	05133	05174	0532	N12	W18	6415	12	16.9	19	1N C 9.3					134	2.1	EK
	LEAR	18	0513	0521	0536	N12	W18	6415	12	16.9	23	SF C 9.3	3	E			78		
	PEKG	18	0516	0517	0529	N12	W19	6415	12	16.8	13	1B			P	0517	189	2.1	EK
0428	PEKG	18	0516	0517	0519	N04	W44	6410	12	14.9	3	SN			P	0517	42	0.6	D
0429		18	0800	0809*	0852	N12	W20	6415	12	16.8	52	SN					34		K
	LEAR	18	0800	0809	0852	N12	W20	6415	12	16.8	52	SN			E		22		K
	LEAR	18	0800	0829	0852	N12	W20	6415	12	16.8	52	SF		3	E		46		
0430	LEAR	18	0932	0934	0943	N12	W21	6415	12	16.8	11	SF C 2.8	3	E			40		
0431		18	1023	10346	1136	N11	W22	6415	12	16.8	73	1N M 1.5					156	2.3	EFH
	KHAR	18	1023	1040	1100U	N11	W21	6415	12	16.8	37U	1N			P	1039	200	2.3	EH
	SVTO	18	1029E	1034	1136	N11	W22	6415	12	16.8	67D	1N M 1.5	3	E			112		F
0432	RAMY	18	1216	1220	1223	N10	W23	6415	12	16.8	7	SF		3	E		10		
		18	1302		1319	No Flare Patrol													
0433		18	13166	1327	1351	N14	W24	6415	12	16.7	35	SF C 6.4					21		F
	RAMY	18	1316	1327	1353	N15	W23	6415	12	16.8	37	SF C 6.4	3	E			25		
	RAMY	18	1322	1327	1353	N15	W23	6415	12	16.8	31	SF C 6.4	3	E			25		
	SVTO	18	1329E	1338U	1346	N12	W25	6415	12	16.7	17D	SF	3	E			14		F
0434		18	14094	1409*	1506	N12	W24	6415	12	16.8	57	SF					42		FK
	SVTO	18	1409	1409	1445	N12	W24	6415	12	16.8	36	SF		3	E		37		F
	RAMY	18	1413	1424	1516	N12	W23	6415	12	16.8	63	SF			E		55		K
	RAMY	18	1413	1435	1516	N12	W23	6415	12	16.8	63	SF		2	E		45		
	HOLL	18	1416E	1422U	1447D	N12	W26	6415	12	16.6	31D	SF	1	E			30		
		18	1527		1543	No Flare Patrol													
0435		18	16329	1640*	1728	N13	W24	6415	12	16.9	56	SF C 3.6					44		FK
	RAMY	18	1632	1640	1739	N13	W24	6415	12	16.9	67	SF			E		49		K
	RAMY	18	1632	1655	1739	N13	W24	6415	12	16.9	67	SF C 3.6	3	E			58		F
	HOLL	18	1641	1647	1705	N12	W24	6415	12	16.9	24	SF	3	E			26		F
0436	RAMY	18	1828	1833	1849	N18	W12	6412	12	17.8	21	SF		3	E		10		
0437	HOLL	18	1838	1839	1844	S06	E00	6416	12	18.8	6	SF		3	E		16		F
0438	RAMY	18	1910	1923	1931	N11	W27	6415	12	16.8	21	SF		3	E		11		F
0439	RAMY	18	1942	1958	2014	N19	W17	6412	12	17.5	32	SF		3	E		13		F
0440		18	20242	2027	2050	N21	W26	6413	12	16.8	26	SF					44		FH
	RAMY	18	2024	2027	2049	N22	W27	6413	12	16.8	25	SF		3	E		28		FH
	HOLL	18	2025	2027	2059	N20	W25	6413	12	16.9	34	SF		3	E		71		F
	PALE	18	2026	2027	2043	N22	W25	6413	12	16.9	17	SF		3	E		34		FH

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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	Day							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0441		18	20364	20435	2120	N14	W26	6415	12	16.9	44	SN	M	1.0			60		EFH	
	PALE	18	2035E	2040U	2122D	N14	W26	6415	12	16.9	47D	SN			2	E	40		FH	
	HOLL	18	2036	2043	2120	N13	W26	6415	12	16.9	44	SN	M	1.0	3	E	82		FE	
	RAMY	18	2040	2048	2115D	N14	W27	6415	12	16.8	35D	SF			3	E	58		F	
0442	RAMY	18	2058	2059	2107	N03	W40	6410	12	15.9	9	SF			3	E	10		F	
0443		18	2324	2327*	2350	N13	W27	6415	12	16.9	26	SF					25	0.4	DFIJT	
	HOLL	18	2324	2327	2336	N12	W28	6415	12	16.9	12	SF			3	E	22		F	
	LEAR	18	2324	2340	2353	N14	W27	6415	12	16.9	29	SF			3	E	16		F	
	VORO	18	2351E	2353	2401	N14	W27	6415	12	16.9	10D	SF			2	C	2353	36	0.4	DIJT
0444		19	0004	0007I	0014	N15	W14	6412	12	17.9	10	SF					72	1.2	EFIJT	
	VORO	19	0004	0007	0014	N15	W14	6412	12	17.9	10	SF			2	C	0007	108	1.2	EIJT
	LEAR	19	0004	0008	0013	N15	W14	6412	12	17.9	9	SF			3	E	35		F	
0445	VORO	19	0025	0026	0043	S06	W02	6416	12	18.9	18	SF			2	C	0026	134	1.4	EJK
0446		19	01039	0107*	0122	N12	W30	6415	12	16.8	19	SF	M	1.1			26		F	
	LEAR	19	0103	0107	0111	N12	W30	6415	12	16.8	8	SF			3	E	20		F	
	LEAR	19	0112	0119	0133	N12	W31	6415	12	16.7	21	SF	M	1.1	3	E	32		F	
0447	VORO	19	0119	0120	0125	N04	W51	6410	12	15.2	6	SF			2	C	0120	27	0.4	DIJT
0448		19	0403	0416*	0527	N14	W31	6415	12	16.8	84	SF	M	1.7			83		FK	
	LEAR	19	0403	0416	0527	N14	W31	6415	12	16.8	84	SF				E	82		K	
	LEAR	19	0403	0433	0527	N14	W31	6415	12	16.8	84	SF	M	1.7	3	E	84		F	
0449	LEAR	19	0610	0612	0701	N20	W16	6412	12	18.0	51	SF			3	E	76		F	
0450		19	07262	0730	0741	N16	W18	6412	12	17.9	15	1N					27		EF	
	ISTA	19	0726		0743	N17	W17	6412	12	18.0	17	1B				P			E	
	LEAR	19	0728	0730	0739	N15	W20	6412	12	17.8	11	SF			3	E	27		F	
0451	ISTA	19	0734		0743	N06	W52	6410	12	15.4	9	1B				P			D	
0452	ISTA	19	0755		0810	N17	W10	6417	12	18.6	15	1B				P			D	
0453		19	08258	08373	0859	N12	W33	6415	12	16.9	34	SN					26		DF	
	LEAR	19	0825	0840	0900	N12	W35	6415	12	16.7	35	SF			3	E	26		F	
	ISTA	19	0826		0856	N14	W32	6415	12	16.9	30	1B				P			D	
	KANZ	19	0833	0837	0901	N11	W33	6415	12	16.9	28	SF				V				
0454		19	10008	10064	1021	N11	W35	6415	12	16.8	21	SF					22		DF	
	LEAR	19	1000	1010	1025	N12	W36	6415	12	16.7	25	SF			3	E	22		F	
	KHAR	19	1006	1006	1017	N12	W34	6415	12	16.8	11	SF							D	
	KANZ	19	1008	1008	1022	N10	W35	6415	12	16.8	14	SF				V				
0455	KHAR	19	1015	1018	1025	N19	W16	6412	12	18.2	10	SF							D	
0456		19	11193	11252	1152	N12	W37	6415	12	16.7	33	1N	C	6.2			167		FH	
	KANZ	19	1119	1125	1148	N11	W38	6415	12	16.6	29	1F				V				
	RAMY	19	1122	1127	1156	N12	W36	6415	12	16.8	34	1N	C	6.2	2	E	167		FH	
0457		19	11391	1140	1148	N20	W28	6413	12	17.3	9	SF					24			
	RAMY	19	1139	1140	1147	N21	W28	6413	12	17.3	8	SF			2	E	24			
	KANZ	19	1140	1140	1148	N20	W29	6413	12	17.3	8	SF				V				
0458		19	1212*	1233*	1255	N16	W28	6412	12	17.4	43	SF					97		K	
	RAMY	19	1212	1236	1309	N17	W28	6412	12	17.4	57	SF			3	E	86			
	RAMY	19	1212	1302	1309	N17	W28	6412	12	17.4	57	SF				E	55		K	
	SVTO	19	1216	1234	1243	N16	W29	6412	12	17.3	27	1F			3	E	150			
	KANZ	19	1233	1233	1240	N16	W29	6412	12	17.3	7	SN				V				
0459	RAMY	19	1328	1329	1358	N18	W21	6412	12	18.0	30	SF			3	E	18			

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	Cmd	Chp Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0460		19 14474	1501*	1612	N16	W25	6412	12	17.7	85	2B	M	3.0			252		FHK
	RAMY	19 1447	1501	1616	N16	W27	6412	12	17.6	89	1B			E		190		K
	RAMY	19 1447	1506	1616	N16	W27	6412	12	17.6	89	1B		3	E		244		F
	HOLL	19 1451	1505	1609	N15	W23	6412	12	17.9	78	2B	M	3.0	3	E	294		FH
	HOLL	19 1451	1518	1609	N15	W23	6412	12	17.9	78	2B			E		279		K
0461	HOLL	19 1504	1509	1519	N10	W36	6415	12	16.9	15	SF		3	E		30		F
0462	HOLL	19 1538	1540	1542	N21	W30	6413	12	17.3	4	SF		3	E		12		
0463		19 15441	1549	1600	N02	W52	6410	12	15.8	16	SF					40		F
	RAMY	19 1544	1549	1602	N03	W52	6410	12	15.8	18	SF		3	E		54		
	HOLL	19 1545	1549	1557	N01	W53	6410	12	15.7	12	SF		3	E		26		F
0464	RAMY	19 1708	1712	1718	N10	W58	6410	12	15.3	10	SF	C	6.5	3	E	31		
0465		19 1748*	1801*	1914	N12	W40	6415	12	16.7	86	SN	C	9.1			40		EFK
	RAMY	19 1748	1804	1922	N14	W39	6415	12	16.8	94	SN			E		47		K
	RAMY	19 1748	1818	1922	N14	W39	6415	12	16.8	94	SN	C	9.1	3	E	41		F
	HOLL	19 1759	1801	1905	N11	W40	6415	12	16.7	66	SN			E		31		K
	HOLL	19 1759	1826	1905	N11	W40	6415	12	16.7	66	SF			3	E	48		FE
	PALE	19 1840E	1853U	1853D	N12	W41	6415	12	16.7	130	SF			3	E	31		F
0466		19 18471	18483	1902	N03	W56	6410	12	15.6	15	SF					54		FH
	HOLL	19 1847	1850	1900	N02	W55	6410	12	15.7	13	SF			3	E	85		F
	RAMY	19 1848	1848	1903	N04	W56	6410	12	15.6	15	SF			3	E	40		FH
	PALE	19 1848	1851	1853D	N02	W56	6410	12	15.6	50	SF			3	E	36		FH
0467	HOLL	19 1944	1946	1953	N02	W53	6410	12	15.9	9	SF			3	E	15		
0468	RAMY	19 2045	2049	2104	N20	W20	6412	12	18.3	19	SF	C	3.9	3	E	24		
		19 2131		2133	No Flare Patrol													
0469	HOLL	19 2154E	2155U	2209	N11	W42	6415	12	16.7	15D	SF			3	E	18		
0470	HOLL	19 2154E	2156U	2209	S03	W16	6416	12	18.7	15D	SF			3	E	15		F
0471	HOLL	19 2154E	2157U	2214	N18	W37	6412	12	17.1	20D	SF	C	5.8	3	E	25		
0472		19 2239	2239I	2248	N13	W42	6415	12	16.8	9	SF					23		
	LEAR	19 2239	2239	2245	N13	W41	6415	12	16.8	6	SF			3	E	20		
	HOLL	19 2239	2240	2250	N13	W42	6415	12	16.8	11	SF			3	E	26		
0473	HOLL	19 2256	2257	2316	N19	W22	6412	12	18.3	20	SF			3	E	40		
		20 0030		0100	No Flare Patrol													
		20 0105		0116	No Flare Patrol													
0474	LEAR	20 0147	0149	0159	N03	W54	6410	12	16.0	12	SF			3	E	19		F
0475	LEAR	20 0152	0155	0213	N11	W46	6415	12	16.6	21	SF			3	E	25		F
0476	LEAR	20 0435	0436	0443	N11	W45	6415	12	16.8	8	SF			3	E	24		
0477		20 07052	07156	0808	N14	W47	6415	12	16.7	63	1B	M	3.7			125	1.9	EF
	PURP	20 0705E	0719	0745	N14	W47	6415	12	16.7	40D	1B			C	0719	131	2.1	
	LEAR	20 0705	0721	0824	N14	W47	6415	12	16.7	79	1H	M	3.7	3	E	170		FE
	SVTO	20 0707	0715	0821	N13	W47	6415	12	16.7	74	SN			2	E	86		F
	URUM	20 0709E	0720	0807	N14	W46	6415	12	16.8	58D	SB			C	80	1.2	E	
	YUNN	20 0713E	0721	0801	N15	W46	6415	12	16.8	48D	1B			P	157	2.4		
0478	LEAR	20 0814	0814	0830	N17	W32	6412	12	17.9	16	SF			3	E	18		F
0479	HPR	20 0905	0915	0945	S28	E90	6420	12	27.4	40	1N			C				
0480	HPR	20 1010	1013	1020	N18	W33	6412	12	17.9	10	SN			C	1013	40	0.5	E
0481	HPR	20 1151	1157	1210	S18	E90	6423	12	27.3	19	SN			C				

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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)	Corr (Sq Deg)
0482		20	12064	12108	1238	N17	W35	6412	12	17.8	32	SF C 3.1			65	1.5	EF	
	RAMY	20	1206	1210	1319D	N17	W33	6412	12	18.0	73D	SF C 3.1	3	E	39		F	
	SVTO	20	1208	1218	1246	N15	W35	6412	12	17.8	38	SF	3	E	25		F	
	HTPR	20	1210	1217	1230	N18	W37	6412	12	17.7	20	SF		C	1217	130	1.5	E
0483	HTPR	20	1409		1415	S24	E90	6420	12	27.5	6	SN		C				
0484	HTPR	20	1416	1419	1440	S17	E88	6423	12	27.3	24	1N		C				
0485	HOLL	20	1424	1425	1439	N16	W36	6412	12	17.9	15	SF C 5.1	1	E		37		F
0486	HOLL	20	1608	1611	1620	N13	W34	6412	12	18.1	12	SF	3	E		12		
0487		20	17202	17234	1750	N25	W50	6413	12	16.8	30	SN				37		FH
	HOLL	20	1720	1723	1752	N25	W49	6413	12	16.9	32	SF	3	E		32		F
	RAMY	20	1722	1727	1748	N25	W51	6413	12	16.8	26	SN	3	E		42		FH
0488	HOLL	20	1818	1821	1827	N11	W53	6415	12	16.8	9	SF	3	E		31		F
0489	HOLL	20	1930	1934	1942	S24	E87	6420	12	27.5	12	SF	3	E		22		
0490	HOLL	20	1956	2004	2020	S06	W28	6416	12	18.7	24	SF	3	E		28		
0491	HOLL	20	1958	1958	2006	N14	W32	6417	12	18.4	8	SF	3	E		20		
0492	HOLL	20	2033	2036	2043	S18	E81	6423	12	27.0	10	SF	3	E		30		
0493	HOLL	20	2034	2040	2055	N12	W39	6412	12	17.9	21	1N M 1.2	3	E		154		
0494	HOLL	20	2151	2156	2202	N17	W39	6412	12	17.9	11	SF	2	E		31		
0495		20	22257	22392	2256	N12	W56	6415	12	16.7	31	SF				41		F
	LEAR	20	2225	2239	2259	N12	W55	6415	12	16.8	34	SF	3	E		28		
	HOLL	20	2232	2241	2254	N12	W56	6415	12	16.7	22	SF	2	E		54		F
0496	HOLL	20	2250	2250	2254	S19	E77	6423	12	26.8	4	SF	2	E		12		
		21	0051		0103	No Flare Patrol												
0497	YUNN	21	0157E	0158	0158D	N17	W52	6412	12	17.1	1D	SN		P		47	0.8	
0498	URUM	21	0537	0541	0552	N19	W40	6412	12	18.2	15	SF		C		16	0.2	D
0499	LEAR	21	0838	0848	0902	N16	W46	6412	12	17.9	24	SF	3	E		15		F
0500		21	0925	09262	0934	N17	W46	6412	12	17.9	9	SF				56	1.6	F
	SVTO	21	0925	0926	0933	N17	W45	6412	12	18.0	8	SF	3	E		29		
	LEAR	21	0925	0927	0940	N17	W47	6412	12	17.8	15	SF	3	E		38		F
	KANZ	21	0925	0928	0932	N17	W45	6412	12	18.0	7	SF		V				
	HTPR	21	0927E	0928	0932	N17	W46	6412	12	17.9	5D	SF		C	0928	100	1.6	
0501	LEAR	21	0941	0941	0948	N16	W47	6412	12	17.8	7	SF	3	E		21		F
0502		21	09423	09446	1005	S24	E81	6420	12	27.7	23	SF C 3.5				47		
	LEAR	21	0942	0947	0952	S24	E80	6420	12	27.6	10	SF C 3.5	3	E		56		
	SVTO	21	0943	0944	1037	S22	E79	6420	12	27.5	54	SF	3	E		38		
	KANZ	21	0943	0947	0951	S22	E79	6420	12	27.5	8	SF		V				
	HTPR	21	0945	0950	1000	S28	E85	6420	12	28.0	15	SN		C				
0503	KANZ	21	1110E	1114	1129	N14	W49	6412	12	17.8	19D	SF		V				
		21	1437		1447	No Flare Patrol												
0504		21	1455	14562	1511	S22	E72	6423	12	27.1	16	SN C 4.4				65		
	HOLL	21	1455	1456	1511	S22	E73	6423	12	27.2	16	SF C 4.4	2	E		65		
	HTPR	21	1455	1458	1504D	S23	E70	6423	12	27.0	9D	SB		C				
		21	1547		1607	No Flare Patrol												

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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)
0505	RAMY	21	1608E	1622U	1700	S19 E69	6423	12 26.9	52D	SF M 1.0	2	E	35		F
0506	HOLL	21	1849	1851	1912	N18 W50	6412	12 18.0	23	SF C 3.1	3	E	72		
0507	RAMY	21	1920	1921	1933	N14 W69	6415	12 16.6	13	SF	3	E	14		
		21	2109		2148	No Flare Patrol									
0508	LEAR	21	2228	2232	2248	N19 W50	6412	12 18.1	20	1F C 9.1	3	E	146		F
0509	LEAR	22	0221	0221	0240	N17 W57	6412	12 17.8	19	SF C 5.7	3	E	13		F
0510	LEAR	22	0333	0333	0344	S23 E65	6423	12 27.1	11	SF C 9.8	3	E	11		
0511	LEAR	22	0633	0633	0640	S26 E76	6420	12 28.2	7	SF C 5.5	3	E	10		F
0512	LEAR	22	0732	0732	0737	S19 E61	6423	12 27.0	5	SF	3	E	21		
0513	LEAR	22	0855	0858	0910	S24 E69	6420	12 27.7	15	SF	3	E	35		
0514	HTPR	22	1018	1023	1045	S20 E80	6422	12 28.5	27	SF		C			
0515		22	1110E	1114	1120	S23 E75	6420	12 28.2	10	SN C 4.1			95		E
	HTPR	22	1110	1114	1120	S25 E78	6420	12 28.5	10	SN		C	1114	150	E
	SVTO	22	1112	1114	1118D	S21 E72	6420	12 28.0	60	SF C 4.1	2	E	40		
0516	HTPR	22	1209	1214	1240	S23 E68	6420	12 27.7	31	SN		C	1214	110	
0517	HTPR	22	1340		1355	N13 W85	6415	12 16.1	15	SN		C			A
0518	HTPR	22	1342	1344	1355	S25 E60	6423A	12 27.2	13	SF		C	1344	40	
		22	1519		1547	No Flare Patrol									
0519	RAMY	22	1544	1545	1645	S25 E66	6420	12 27.8	61	SF M 1.2	2	E	78		
		22	1616		1624	No Flare Patrol									
		22	1810		1816	No Flare Patrol									
		22	1958		2021	No Flare Patrol									
0520		22	2020	2038	2138	S22 E62	6420	12 27.6	78	SF C 7.5			63		F
	RAMY	22	2020	2038	2138	S22 E61	6420	12 27.5	78	SF	2	E	67		F
	HOLL	22	2031E	2040U	2130D	S23 E63	6420	12 27.7	59D	SF C 7.5	3	E	59		F
0521	HOLL	22	2126	2134	2145D	S29 E56	6423A	12 27.3	19D	SF	3	E	12		
0522		22	2152	2205*	2324D	S25 E63	6420	12 27.8	92D	1N M 5.3			206		FK
	HOLL	22	2152	2205	2324D	S25 E63	6420	12 27.8	92D	SF		E	17		K
	HOLL	22	2152	2234	2324D	S25 E63	6420	12 27.8	92D	2B M 5.3	3	E	395		F
0523		22	2217	2225	2523	S19 E51	6423	12 26.8	186	2N			382		KT
	LEAR	22	2217	2225U	2523	S19 E51	6423	12 26.8	186	2N	3	E	496		T
	LEAR	22	2217	2225	2523	S19 E51	6423	12 26.8	186	2N		E	269		KT
0524		22	2229*	2237	2244	N16 W66	6412	12 17.9	15	SF			26		
	LEAR	22	2229	2237	2242	N13 W63	6412	12 18.2	13	SF	3	E	20		
	HOLL	22	2229	2238	2240	N18 W67	6412	12 17.8	11	SF	3	E	21		
	LEAR	22	2243	2244	2249	N18 W68	6412	12 17.8	6	SF	3	E	36		
0525	LEAR	23	0038	0040	0048	N18 W66	6412	12 18.0	10	1N C 8.5	3	E	134		
0526	LEAR	23	0039	0039	0043	N13 W88	6415	12 16.4	4	SF	3	E	26		
0527		23	0138*	0138*	0202	S23 E56	6420	12 27.4	24	SF			22		
	LEAR	23	0138	0138	0146	S23 E56	6420	12 27.4	8	SF	3	E	19		
	LEAR	23	0149	0152	0219	S23 E56	6420	12 27.4	30	SF	3	E	26		
0528	LEAR	23	0259	0301	0307	N18 W70	6412	12 17.8	8	SF	3	E	34		

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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)		
0529	LEAR	23	0339	0345	0403	S23	E55	6420	12	27.4	24	SF	3	E		30			
0530	LEAR	23	0521	0524	0529	S19	E49	6423	12	27.0	8	SF	3	E		13			
0531	KANZ	23	0930	0930	0937	S19	E72	6422	12	28.9	7	SF		V					
0532		23	0943	1001	1028	N12	W70	6412	12	18.1	45	2B X 1.0				291		U	
	KANZ	23	0943	1001	1027	N12	W73	6412	12	17.9	44	2B		V				U	
	SVTO	23	0943E	1001	1029	N11	W68	6412	12	18.3	46D	2B X 1.0	3	E		291			
0533		23	17113	17136	1725	N12	W72	6412	12	18.3	14	SF				16		F	
	RAMY	23	1711	1713	1728	N13	W73	6412	12	18.2	17	SF	3	E		22		F	
	HOLL	23	1714	1719	1722	N12	W71	6412	12	18.4	8	SF	3	E		11		F	
0534	HOLL	23	1717	1718	1724	S20	E45	6423	12	27.2	7	SF	3	E		15			
0535		23	18522	18575	1904	N12	W70	6412	12	18.5	12	SF				18		FH	
	RAMY	23	1852	1902	1904	N12	W70	6412	12	18.5	12	SF	3	E		21		FH	
	HOLL	23	1854	1857	1904	N12	W71	6412	12	18.4	10	SF	3	E		16		F	
0536		23	20043	20062	2022	S23	E54	6420	12	28.0	18	SF C 3.3				57		F	
	HOLL	23	2004	2006	2020	S23	E53	6420	12	27.9	16	SF	3	E		78			
	RAMY	23	2007	2008	2025	S23	E55	6420	12	28.1	18	SF C 3.3	3	E		36		F	
0537	HOLL	23	2124	2125	2130	S19	E43	6423	12	27.2	6	SF	3	E		16			
0538	HOLL	23	2211	2215	2227	S15	E60	6422	12	28.5	16	SF C 2.3	3	E		60			
0539		23	2232*	2236*	2300	N17	E06	6418	12	24.4	28	SF C 3.9				52		FK	
	HOLL	23	2232	2236	2252	N17	E06	6418	12	24.4	20	SF C 3.9	3	E		34		F	
	HOLL	23	2232	2241	2252	N17	E06	6418	12	24.4	20	SF		E		55		K	
	LEAR	23	2242	2247	2316	N18	E07	6418	12	24.5	34	SF	3	E		67		F	
0540		23	23233	2327	2337	S24	E46	6420	12	27.5	14	SF				23		F	
	HOLL	23	2323	2327	2340	S24	E46	6420	12	27.5	17	SF	3	E		25			
	LEAR	23	2326	2327	2334	S24	E45	6420	12	27.4	8	SF	3	E		21		F	
0541	LEAR	24	0017	0017	0021	N15	W79	6412	12	18.0	4	SF	3	E		25			
0542		24	00422	00453	0058	N18	E05	6418	12	24.4	16	1F				114	2.2	EFJT	
	VORO	24	0042	0048	0102	N18	E05	6418	12	24.4	20	1F	2	C	0048	206	2.2	EJT	
	LEAR	24	0044	0045	0054	N18	E05	6418	12	24.4	10	SF	3	E		23		F	
0543		24	0056	00556	0116	S25	E48	6420	12	27.7	20	SF M 1.0				38	0.6	DFIJ	
	VORO	24	0055U	0055	0101	S25	E53	6420	12	28.1	6U	SF	2	C	0055	36	0.6	DIJ	
	LEAR	24	0056	0101	0131	S25	E44	6420	12	27.4	35	SF M 1.0	3	E		40		F	
0544		24	01551	0157	0204	N13	W80	6412	12	18.0	9	1F				58		DH	
	VORO	24	0155	0157	0201D	N13	W85	6412	12	17.7	6D	1F	2	C	0157	63		DH	
	LEAR	24	0156	0157	0204	N13	W75	6412	12	18.4	8	SF	3	E		52			
0545		24	0306	0316*	0340	S24	E52	6420	12	28.1	34	SN C 4.9				48	0.8	F	
	LEAR	24	0306	0316	0336	S25	E53	6420	12	28.2	30	SF C 4.9	3	E		48		F	
	YUNN	24	0331E	0333	0343	S24	E52	6420	12	28.2	12D	SN		P		47	0.8		
0546	YUNN	24	0331E	0333	0343	N17	E05	6418	12	24.5	12D	SN		P		126	1.4		
0547	URUM	24	0544	0550	0600	N04	E32	6425A	12	26.6	16	SF		C		32	0.4	E	
0548		24	0558	0605*	0650	N17	E03	6418	12	24.5	52	SN C 7.5				89	1.2	EK	
	MITK	24	0558E	0605	0630	N16	E03	6418	12	24.5	32D	SN		C	0605			E	
	LEAR	24	0558	0611	0640	N17	E03	6418	12	24.5	42	SF C 7.5	3	E		94			
	URUM	24	0558	0620	0730	N17	E03	6418	12	24.5	92	SB		C		113	1.2	E	
	LEAR	24	0558	0623	0640	N17	E03	6418	12	24.5	42	SF		E		60		K	
0549	YUNN	24	0745	0752	0810	S22	E57	6422	12	28.7	25	SN		C		16	0.3		
0550	LEAR	24	0952	0954	0959	S25	E41	6420	12	27.6	7	SF	3	E		17		F	
		24	1104		1159	No Flare Patrol													

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Grp #	Sta	Start Day (UT)	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)	
		24 1212		1236		No Flare Patrol								
		24 1242		1251		No Flare Patrol								
		24 1305		1321		No Flare Patrol								
0551	RAMY 24	1322E	1327	1330D	S24 E47	6420	12 28.2	80	1F M 2.2	3 E		116		F
		24 1331		1417		No Flare Patrol								
0552	24 1533	15379	1606	1606	N10 W80	6412	12 18.6	33	1B X 1.8			129		K
	HOLL 24	1533	1537	1606	N10 W80	6412	12 18.6	33	1B	E		118		K
	HOLL 24	1533	1546	1606	N10 W80	6412	12 18.6	33	1B X 1.8	3 E		140		
0553	HOLL 24	1542	1545	1552	N18 W03	6418	12 24.4	10	SF	3 E		44		F
		24 1648		1652		No Flare Patrol								
0554	24 17021	17061	1725	1725	N17 E00	6418	12 24.7	23	SF			26		
	HOLL 24	1702	1707	1720D	N17 E00	6418	12 24.7	18D	SF	3 E		27		
	RAMY 24	1703	1706	1725	N17 E00	6418	12 24.7	22	SF	3 E		25		
0555	24 1805	18062	1824	1824	N18 W04	6418	12 24.4	19	SF			32		
	HOLL 24	1805	1806	1823	N17 W05	6418	12 24.4	18	SF	3 E		34		
	RAMY 24	1805	1808	1825	N18 W04	6418	12 24.4	20	SF	3 E		29		
0556	HOLL 24	2113E	2113U	2125D	S10 E35	6424	12 27.5	12D	SF	2 E		26		F
0557	HOLL 24	2123E	2138U	2147D	S25 E42	6420	12 28.1	24D	SF	2 E		59		F
0558	LEAR 24	2232	2256	2329	S27 E39	6420	12 28.0	57	1F M 1.0	3 E		155		F
0559	25 00491	0051	0057	0057	S18 E19	6423	12 26.5	8	SF			57	0.8	DHIJT
	VORO 25	0049	0051	0056	S18 E19	6423	12 26.5	7	SF	2 C	0051	72	0.8	DHIJT
	LEAR 25	0050	0051	0058	S19 E19	6423	12 26.5	8	SF	3 E		42		
0560	LEAR 25	0051	0057	0109	S25 E39	6420	12 28.0	18	SF C 5.0	3 E		28		
0561	25 0117	0119*	0150	0150	S22 E21	6423	12 26.7	33	SN			56	0.7	DIJT
	VORO 25	0117	0119	0134U	S25 E25	6423	12 27.0	17U	SF	2 C	0119	81	1.0	DIJT
	YUNN 25	0135E	0136	0150	S20 E17	6423	12 26.4	15D	SN	P		31	0.4	
0562	VORO 25	0134U	0136	0139	S25 E39	6420	12 28.1	5U	SF	2 C	0136	72	1.0	DIJT
0563	25 02371	02401	0247	0247	S18 E19	6423	12 26.5	10	SN			121	1.4	DHIJT
	VORO 25	0237	0240	0250	S18 E19	6423	12 26.5	13	SF	2 C	0240	116	1.3	DHIJT
	PEKG 25	0238	0241	0244	S19 E19	6423	12 26.5	6	SN	P	0245	126	1.4	D
0564	25 0249	0251	0258	0258	S27 E37	6420	12 28.0	9	SF C 3.5			47	0.7	DIJT
	YUNN 25	0241E	0241U	0242D	S26 E38	6420	12 28.1	1D	SN	P	0241	16	0.2	
	LEAR 25	0249	0251	0257	S28 E37	6420	12 28.0	8	SF C 3.5	3 E		36		
	VORO 25	0249	0251	0259	S27 E37	6420	12 28.0	10	SF	2 C	0251	90	1.2	DIJT
0565	VORO 25	0251	0252	0253D	S23 E28	6423	12 27.3	2D	SF	2 C	0252	54	0.7	DIJT
0566	LEAR 25	0323	0323	0327	S21 E44	6422	12 28.5	4	SF C 2.0	3 E		32		F
0567	25 03237	0330	0333	0333	S26 E34	6420	12 27.8	10	SN			36		F
	PALE 25	0323	0324U	0337D	S26 E37	6420	12 28.0	14D	SN	3 E		55		F
	LEAR 25	0330	0330	0333	S26 E32	6420	12 27.6	3	SF	3 E		16		
0568	PEKG 25	0530	0535	0538	S19 E17	6423	12 26.5	8	SN	P	0535	84	0.9	D
0569	25 07077	07154	0723	0723	S18 E15	6423	12 26.4	16	SF			64	1.2	D
	ABST 25	0707	0715	0723	S18 E15	6423	12 26.4	16	SF	C	0715	105	1.2	D
	LEAR 25	0714	0719	0723	S19 E15	6423	12 26.4	9	SF	3 E		23		
0570	LEAR 25	0738	0741	0756	S21 E42	6422	12 28.5	18	SF C 2.4	3 E		43		F
0571	LEAR 25	0841	0842	0847	S25 E34	6420	12 28.0	6	SF	3 E		19		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	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)		
0572	25	0929	0930	0946	S18 E20 6423	12 26.9	17	SN					52	0.7	DFK		
	LEAR	25	0929	0930	0937	S18 E16 6423	12 26.6	8	SF			3	E	41		F	
	ONDR	25	0937U	0949U	0956	S18 E23 6423	12 27.1	19U	SN				C	0949	64	0.7	DK
0573	ONDR	25	1005	1006	1009	S18 E17 6423	12 26.7	4	SN				C	1006	67	0.7	D
0574	KHAR	25	1050		1058	S18 E14 6423	12 26.5	8	SF				P	1050	150	1.8	H
0575	KHAR	25	1053	1055	1058D	S21 E33 6420	12 28.0	5D	SF					1055			EH
		25	1059		1108	No Flare Patrol											
0576	RAMY	25	1214	1226	1233	S10 E26 6424	12 27.5	19	SF			3	E		18		F
0577	RAMY	25	1420	1420	1423	S18 E11 6423	12 26.4	3	SF			3	E		15		
0578	RAMY	25	1428	1430	1436	S10 E24 6424	12 27.4	8	SN	C 3.3	3	E		36		F	
0579	RAMY	25	1434	1435	1442	S19 E11 6423	12 26.4	8	SF			3	E		27		
0580	HOLL	25	1528	1529	1538	S10 E25 6424	12 27.5	10	SF			3	E		22		F
0581	25	16096	16191	1644	S20 E36 6422	12 28.4	35	SN						62		EF	
	HOLL	25	1609	1619	1641	S20 E36 6422	12 28.4	32	SN			3	E		63		FE
	RAMY	25	1615	1620	1648	S19 E35 6422	12 28.3	33	SF			3	E		61		F
0582	25	16111	16252	1634	S18 E10 6423	12 26.4	23	SF	C 2.4					30			
	RAMY	25	1611	1625	1634	S18 E10 6423	12 26.4	23	SF	C 2.4	3	E		25			
	HOLL	25	1612	1627	1633	S19 E11 6423	12 26.5	21	SF		3	E		34			
0583	HOLL	25	1618	1621	1624	S09 E23 6424	12 27.4	6	SF			3	E		20		
0584	25	1729	17307	1739	S20 E36 6422	12 28.5	10	SF	C 2.1					26		F	
	HOLL	25	1729	1730	1735	S20 E37 6422	12 28.5	6	SF			3	E		25		
	RAMY	25	1729	1737	1743	S19 E36 6422	12 28.5	14	SF	C 2.1	3	E		26		F	
0585	RAMY	25	1748	1753	1803	S18 E09 6423	12 26.4	15	SF			3	E		13		F
0586	RAMY	25	1916	1919	1928	S18 E08 6423	12 26.4	12	SF			3	E		22		F
0587	RAMY	25	1945	1947	1953	S19 E09 6423	12 26.5	8	SF			3	E		14		F
0588	25	20461	2048	2051	S18 E08 6423	12 26.5	5	SF						24			
	RAMY	25	2046	2048	2051	S18 E08 6423	12 26.5	5	SF			3	E		22		
	HOLL	25	2047	2048	2051	S18 E09 6423	12 26.5	4	SF			3	E		25		
0589	25	2158	2203	2228	S28 E28 6420	12 28.1	30	1N	C 5.9					135		F	
	HOLL	25	2158	2203	2228	S28 E28 6420	12 28.1	30	1N	C 5.9	3	E		140		F	
	LEAR	25	2204E		2229	S27 E27 6420	12 28.0	25D	1N			3	E		130		
0590	LEAR	25	2315	2315	2319	S20 E11 6423	12 26.8	4	SF			3	E		12		F
0591	LEAR	25	2358	2406	2427	S24 E27 6420	12 28.1	29	SF	C 3.3	3	E		50		F	
0592	LEAR	26	0019	0019	0024	S19 E06 6423	12 26.5	5	SF			3	E		16		
0593	LEAR	26	0053	0054	0058	S25 E25 6420	12 28.0	5	SF	C 1.9	3	E		14			
0594	LEAR	26	0147	0152	0201	S20 E10 6423	12 26.8	14	SF			3	E		37		F
0595	26	0204	02139	0310	S26 E25 6420	12 28.0	66	1N	M 1.8					266	5.8	EFK	
	LEAR	26	0204	0213	0318	S26 E25 6420	12 28.0	74	1N				E	132		K	
	LEAR	26	0204	0222	0318	S26 E25 6420	12 28.0	74	1N	M 1.8	3	E		204		FE	
	PEKG	26	0210E	0220	0255	S27 E26 6420	12 28.1	45D	2N			P	0220	463	5.8	E	
0596	LEAR	26	0220	0223	0235	S20 E09 6423	12 26.8	15	SF			3	E		14		
0597	LEAR	26	0650	0716	0736	S26 E22 6420	12 28.0	46	SF	C 2.1	3	E		40		F	

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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)	
0598	LEAR	26	0719	0720	S18	E04 6423	12 26.6	4	SF		3	E		18		F
		26	1053	1131		No Flare Patrol										
0599	RAMY	26	1133E	1135	S26	E25 6420	12 28.4	330	1F M	1.7	3	E		101		F
		26	1149	1159		No Flare Patrol										
0600	RAMY	26	1207	1210	S18	E01 6423	12 26.6	5	SF		3	E		34		
		26	1220	1258		No Flare Patrol										
0601	RAMY	26	1259E	1300U	S17	W01 6423	12 26.5	270	SF		3	E		33		
		26	1315	1324		No Flare Patrol										
0602		26	1351*	1352*	S20	E00 6423	12 26.6	47	SF					23		
	RAMY	26	1351	1352	S20	W02 6423	12 26.4	5	SF		3	E		19		
	RAMY	26	1401	1402	S20	E03 6423	12 26.8	78	SF		3	E		27		
0603	RAMY	26	1355	1401	S26	E21 6420	12 28.2	93	2B X	1.9	3	E		332		UY
0604	RAMY	26	1608	1609	S09	E10 6424	12 27.4	18	SF		3	E		21		F
0605	RAMY	26	2053	2053	S18	W04 6423	12 26.6	5	SF		3	E		13		F
0606	RAMY	26	2114	2115	S24	E14 6420	12 28.0	4	SF		3	E		12		F
		26	2130	2204		No Flare Patrol										
		26	2235	2239		No Flare Patrol										
0607	LEAR	27	0018	0019	S25	E13 6420	12 28.0	5	SF		3	E		29		F
		27	0057	0104		No Flare Patrol										
0608	WATU	27	0116	0119	S26	E15 6420	12 28.2	7	SF			P	0119	30	0.3	
0609	LEAR	27	0428	0429	S20	W03 6423	12 26.9	6	SF		3	E		21		
0610	LEAR	27	0554	0557	S24	W02 6423	12 27.1	8	SF		3	E		21		
0611	LEAR	27	0556	0600	N17	W39 6418	12 24.3	8	SF		3	E		17		
0612	LEAR	27	0649	0652	S26	E11 6420	12 28.1	23	SF C	2.2	3	E		34		
0613	LEAR	27	0713	0716	S18	W02 6423	12 27.1	5	SF		3	E		18		
0614		27	0916Z	0917	S09	E62 6433B	01 1.0	8	SF							
	KHAR	27	0916	0917	S09	E62 6433B	01 1.0	9	SF				0917			DH
	KANZ	27	0918	0918	S09	E61 6433B	01 1.0	4	SF			V				DH
0615	KANZ	27	1054	1054	S21	E13 6422	12 28.4	6	SF			V				
		27	1215	1224		No Flare Patrol										
		27	1244	1251		No Flare Patrol										
0616	RAMY	27	1259	1305	S10	W02 6424	12 27.4	16	SF		3	E		24		
		27	1350	1419		No Flare Patrol										
0617	HOLL	27	1429E	1433U	S19	E13 6422	12 28.6	160	SF		1	E		53		F
0618	HOLL	27	1527	1536	S19	W06 6423	12 27.2	43	SF		3	E		49		F
0619		27	1619E	1610*	S09	W01 6424	12 27.6	14	SF					21		F
	HOLL	27	1610E	1610	S09	W02 6424	12 27.5	260	SF		3	E		24		F
	RAMY	27	1619	1620	S08	W01 6424	12 27.6	4	SF		3	E		18		
	RAMY	27	1625	1625	S09	W01 6424	12 27.6	14	SF		3	E		21		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks			
						Region	Mo Day							Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)		
0620		27	16145	1616*	1653	S12	W65	12	22.8	39	SF				13				
	HOLL	27	1614	1616	1700	S12	W66	12	22.7	46	SF	3	E		10				
	RAMY	27	1619	1626	1646	S11	W64	12	22.9	27	SF	3	E		16				
0621	HOLL	27	1654	1654	1720	S12	E02	6426	12	27.8	26	SF	3	E		18	F		
0622	HOLL	27	1713	1716	1731	S27	E05	6420	12	28.1	18	SF	3	E		40	F		
0623		27	17381	17434	1804	S18	W08	6423	12	27.1	26	SF				30	F		
	HOLL	27	1738	1743	1807	S19	W08	6423	12	27.1	29	SF	3	E		33	F		
	RAMY	27	1739	1747	1802	S18	W07	6423	12	27.2	23	SF	3	E		26			
0624		27	1744	17461	1820	S26	E05	6420	12	28.1	36	1N C	6.3			110	FH		
	RAMY	27	1744	1746	1814	S26	E04	6420	12	28.0	30	SN C	6.3	3	E		84	H	
	HOLL	27	1744	1747	1827	S27	E06	6420	12	28.2	43	1N C	6.3	3	E		137	FH	
0625		27	18502	18511	1915	S09	W04	6424	12	27.5	25	SF				20	F		
	HOLL	27	1850	1851	1911	S09	W04	6424	12	27.5	21	SF	3	E		22	F		
	RAMY	27	1852	1852	1919	S09	W03	6424	12	27.6	27	SF	3	E		18	F		
0626		27	20071	20113	2024	S19	W09	6423	12	27.1	17	SF				32	F		
	HOLL	27	2007	2011	2024	S19	W09	6423	12	27.1	17	SF	3	E		44	F		
	RAMY	27	2008	2014	2024	S19	W09	6423	12	27.1	16	SF	3	E		19	F		
		27	2038		2047	No Flare Patrol													
		27	2146		2205	No Flare Patrol													
0627	LEAR	27	2215	2223	2336	S18	W09	6423	12	27.2	81	SF C	3.7	3	E		74	F	
0628	LEAR	28	0259	0303	0332	N15	W51	6418	12	24.3	33	SF		3	E		42		
0629		28	0324	03252	0338	S26	E00	6420	12	28.1	14	SN				34	0.3		
	LEAR	28	0324	0325	0337	S26	E00	6420	12	28.1	13	SF		3	E		38		
	YUNN	28	0325E	0327	0338	S26	E00	6420	12	28.1	130	SN			P	31	0.3		
0630		28	0453	05008	0524	S18	W14	6423	12	27.1	31	SN				13	0.2		
	WATU	28	0453	0500	0517	S17	W14	6423	12	27.1	24	SF			P	0500	10	0.1	
	YUNN	28	0457E	0508	0531	S18	W14	6423	12	27.1	340	SN			P	16	0.2		
0631		28	07236	07351	0754	S11	W12	6424	12	27.4	31	1F C	3.2			130	1.5	EF	
	ABST	28	0723	0736	0744	S11	W13	6424	12	27.3	21	SF			C	0736	195	2.0	E
	LEAR	28	0729	0735	0812	S11	W13	6424	12	27.3	43	1F C	3.2	3	E		130		F
	YUNN	28	0734E	0736	0745	S11	W12	6424	12	27.4	110	SN			P		94	1.0	
	SVTO	28	0736E	0737U	07460	S10	W10	6424	12	27.6	100	1F		1	E		103		
0632	LEAR	28	0735	0751	0805	S22	W19	6423	12	26.8	30	SF		3	E		17		F
0633		28	1222	1222	1229	S11	W15	6424	12	27.4	7	SF			V				
			28	1325		1330	No Flare Patrol												
			28	1359		1439	No Flare Patrol												
0634	RAMY	28	1511	1511	1528	S17	W01	6422	12	28.5	17	SF C	1.0	3	E		13		F
0635		28	1552	1555	1558	N18	W56	6418	12	24.4	6	SF		3	E		11		
			28	1622		1647	No Flare Patrol												
0636	RAMY	28	1743	1745	1753	S14	W13	6426	12	27.7	10	SF C	1.4	3	E		16		FH
0637		28	1745	1748	1800	S17	W17	6423	12	27.4	15	SF		3	E		13		F
			28	2000		2006	No Flare Patrol												
			28	2051		2053	No Flare Patrol												
			28	2110		2131	No Flare Patrol												
0638	HOLL	28	2143	2146	2152	N17	W59	6418	12	24.4	9	SF		3	E		41		F
0639	LEAR	29	0558	0614	0644	S12	E67	6432	01	3.3	46	SF C	1.4	3	E		74		

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
							USAF Region							Mo	Day	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)
0640		29 0944	10093	1039	S11	E38	6427	01	1.3	55	1N	C	3.6		150	2.4	U	
	SVTO	29 0944	1009	1117	S11	E36	6427	01	1.1	93	1F	C	3.6	3	E	100		U
	ATHN	29 1005E	1012	1020	S10	E38	6427	01	1.3	150	1N			3	V	1012	159	2.1
	ATHN	29 1005E	1012	1020	S13	E39	6427	01	1.4	150	1N			3	V	1012	191	2.6
		29 1238		1246	No Flare Patrol													
0641	RAMY	29 1249	1253	1323	S10	W28	6424	12	27.4	34	SF			3	E	21		F
0642	RAMY	29 1400	1400	1411	S24	W28	6420	12	27.4	11	SF			3	E	10		F
0643	RAMY	29 1426	1428	1459	S10	W30	6424	12	27.3	33	SF			3	E	19		F
		29 1956		1959	No Flare Patrol													
		29 2003		2021	No Flare Patrol													
		29 2053		2108	No Flare Patrol													
0644	LEAR	29 2235	2252	2304	S10	W34	6424	12	27.4	29	SF			3	E	33		
0645		29 2314*	23483	2418	S10	W36	6424	12	27.3	64	SF					22		
	LEAR	29 2314	2351	2423	S10	W35	6424	12	27.3	69	SF			3	E	25		
	PALE	29 2344	2348	2412	S11	W36	6424	12	27.3	28	SF			3	E	19		
0646	URUM	30 0559	0600	0605	S08	W37	6424	12	27.5	6	SN				C	16	0.2	D
0647	URUM	30 0605	0611	0624	S22	W23	6422	12	28.5	19	SN				C	16	0.2	D
0648	YUNN	30 0622	0624	0627	S08	W42	6424	12	27.1	5	SN				C	24	0.3	
0649	URUM	30 0721	0724	0730	S08	W39	6424	12	27.4	9	SN				C	16	0.2	D
0650	SVTO	30 0901	0903	0907	S21	W44	6423	12	27.0	6	SF			3	E	14		
0651		30 0921	0923	0950	S12	W39	6424	12	27.4	29	SF	C	2.0			50		F
	SVTO	30 0921	0923	0945	S12	W39	6424	12	27.4	24	SF	C	2.0	3	E	40		F
	LEAR	30 0921	0923	0956	S11	W39	6424	12	27.4	35	SF	C	2.0	3	E	60		F
0652	SVTO	30 1041	1042	1053	S09	W42	6424	12	27.3	12	SF	C	1.9	3	E	26		
0653		30 11444	11458	1202	S09	W42	6424	12	27.3	18	SF	C	5.5			30		FH
	SVTO	30 1144	1145	1204	S10	W43	6424	12	27.2	20	SN	C	5.5	3	E	36		FH
	RAMY	30 1148	1153	1158	S08	W42	6424	12	27.3	10	SF			2	E	25		H
	KANZ	30 1149E	1149U	1205	S09	W42	6424	12	27.3	160	SF				V			
0654		30 1208*	1209*	1249	S10	W41	6424	12	27.4	41	SF	C	2.6			24		F
	SVTO	30 1208	1210	1249	S12	W41	6424	12	27.4	41	SF	C	2.6	3	E	32		
	RAMY	30 1209	1209	1237	S10	W40	6424	12	27.5	28	SF			3	E	19		F
	KANZ	30 1212	1212	1248	S12	W38	6424	12	27.6	36	SF				V			
	KANZ	30 1244	1244	1258	S09	W43	6424	12	27.3	14	SF				V			
	RAMY	30 1244	1245	1254	S09	W42	6424	12	27.4	10	SF			3	E	21		F
0655		30 13108	13191	1326	S09	W43	6424	12	27.3	16	SB	M	1.7			56		H
	KANZ	30 1310	1320	1331D	S09	W43	6424	12	27.3	21D	SN				V			
	RAMY	30 1313	1319	1327	S07	W43	6424	12	27.3	14	SB	M	1.7	3	E	50		
	SVTO	30 1318	1319	1326	S10	W43	6424	12	27.3	8	SB	M	1.7	3	E	63		H
0656		30 1447	1514	1538	S10	W44	6424	12	27.3	51	1B	M	4.0			96		H
	HOLL	30 1447	1514	1543	S09	W45	6424	12	27.2	56	1B	M	4.0	3	E	154		H
	RAMY	30 1455E	1518U	1533	S10	W43	6424	12	27.4	38D	SN			3	E	39		
0657		30 16411	16434	1722	S12	E20	6427	01	1.2	41	SF	C	1.7			28		F
	HOLL	30 1641	1643	1722	S10	E18	6427	01	1.0	41	SF	C	1.7	3	E	26		F
	RAMY	30 1642	1647	1721	S14	E23	6427	01	1.4	39	SF			3	E	30		F
0658		30 1726	1728	1805	S12	E19	6427	01	1.1	39	SF					24		F
	HOLL	30 1726	1728	1805	S12	E18	6427	01	1.1	39	SF			3	E	12		F
	PALE	30 1730E	1735U	1805D	S13	E20	6427	01	1.2	35D	SF			3	E	36		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	NOAA/ USAF/ Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0659	30	17443	1750	1754	S10	W46	6424	12	27.3	10	SF					26			F	
	PALE	30	1744	1746U	1801D	S10	W45	6424	12	27.3	17D	SF		3	E	25			F	
	HOLL	30	1747	1750	1754	S09	W46	6424	12	27.3	7	SF		3	E	26				
0660	HOLL	30	1817	1818	1828	S09	E45	6432	01	3.1	11	SF		3	E			16		
0661	HOLL	30	1829	1830	1843	S09	W47	6424	12	27.2	14	SN M	1.2	3	E			35		
0662	LEAR	31	0127	0129	0136	S23	E24	6429	01	1.9	9	SF		3	E			28		
0663	31	0221	02222	0234	S24	E25	6429	01	2.0	13	SF C	2.0				31	0.4		F	
	PALE	31	0221	0222	0237	S24	E25	6429	01	2.0	16	SF C	2.0	4	E			32		F
	WATU	31	0221	0224	0230	S23	E25	6429	01	2.0	9	SF			C	0224		30	0.4	
0664	LEAR	31	0623	0624	0629	S12	E19	6427	01	1.7	6	SF		3	E			31		
0665	SVTO	31	0721	0724	0729	S24	E21	6429	01	1.9	8	SF		3	E			19		
0666	31	0721	0730*	0816	S14	E15	6427	01	1.4	55	SF					78	0.7		EF	
	SVTO	31	0721	0730	0844D	S13	E14	6427	01	1.4	83D	SF		3	E			41		F
	LEAR	31	0721	0736	0806	S15	E15	6427	01	1.4	45	1F		3	E			129		F
	URUM	31	0749E	0814	0826	S15	E15	6427	01	1.5	37D	SN			C			64	0.7	E
0667	SVTO	31	1106	1108	1116	S23	E18	6429	01	1.8	10	SF		3	E			18		
0668	31	11581	11581	1204	S11	W57	6424	12	27.2	6	SF							18		
	SVTO	31	1158	1158	1204	S12	W59	6424	12	27.0	6	SF		3	E			11		
	RAMY	31	1158E	1158U	1218D	S09	W56	6424	12	27.3	20D	SF		3	E			26		
	KANZ	31	1159	1159	1203D	S11	W56	6424	12	27.3	4D	SF			V					
0669	SVTO	31	1407	1408	1414	S09	E31	6432	01	2.9	7	SF		3	E			20		
0670	HOLL	31	1951	1952	2014	S20	W45	6422	12	28.4	23	SN C	2.4	3	E			57		F
0671	31	2244	2248	2354	S12	E02	6427	01	1.1	70	SF							42		F
	LEAR	31	2244	2248	2354	S11	E01	6427	01	1.0	70	SF		3	E			53		
	HOLL	31	2253E	2257U	2338D	S14	E02	6427	01	1.1	45D	SF		3	E			30		F
0672	LEAR	31	2323	2342	2352	S10	W63	6424	12	27.2	29	SF		3	E			24		

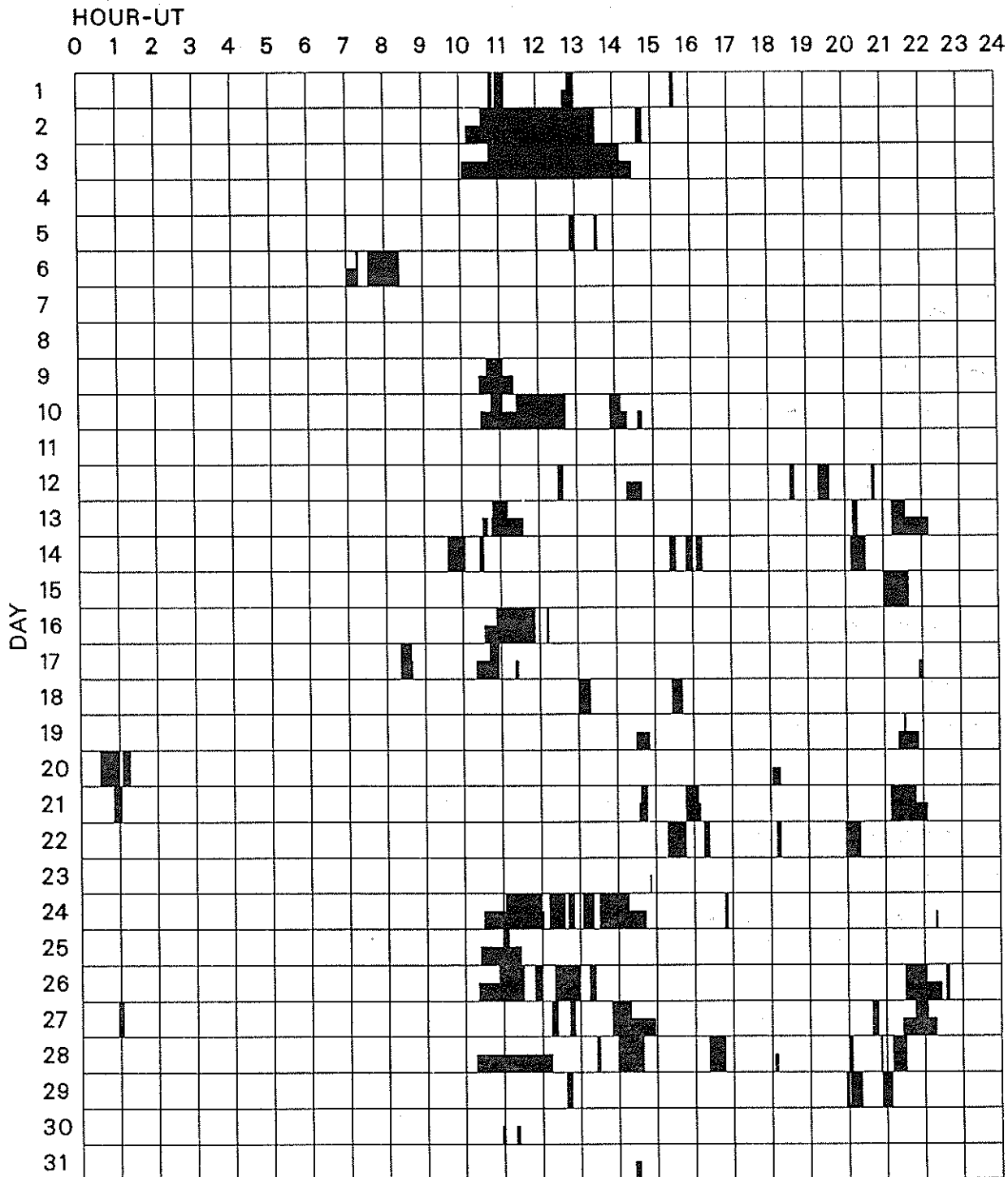
"Remarks"

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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

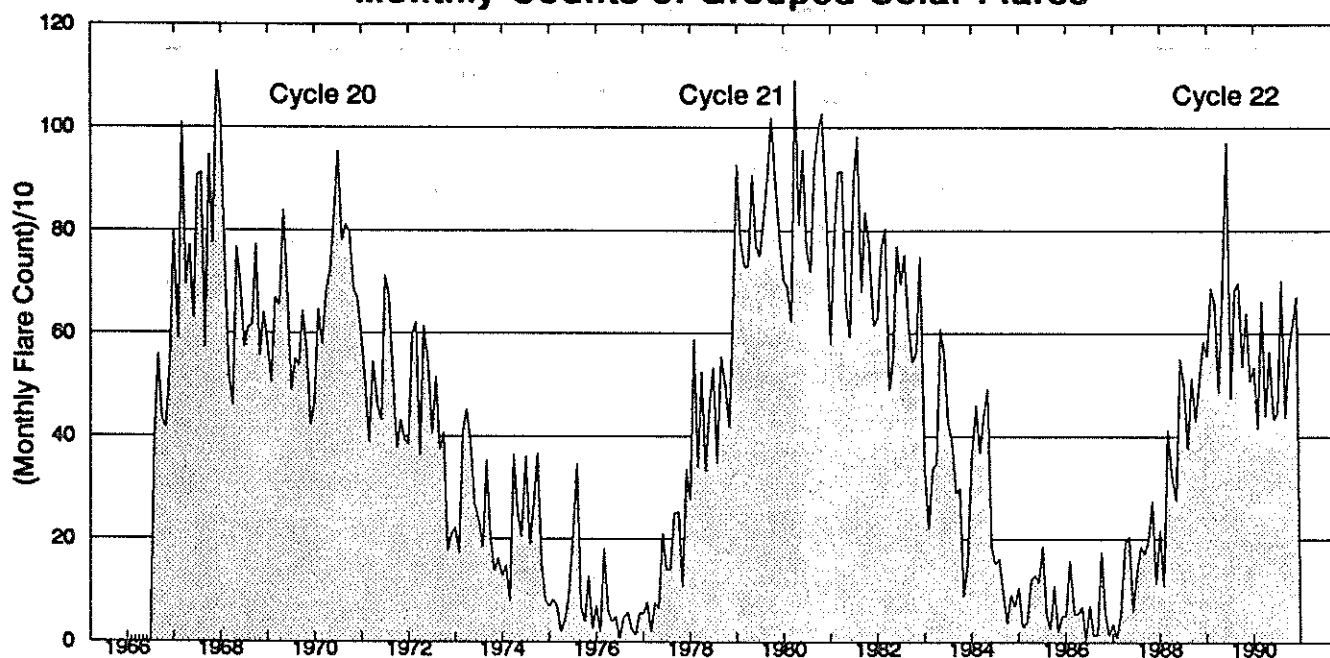
DECEMBER 1990



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 | Istanbul | Learmonth | Peking | Tashkent |
| Athens | Kanzelhoehe | Mitaka | Purple Mt. | Urumqi |
| Haute Provence | Kharkov | Ondrejov | Ramey | Voroshilov |
| Holloman | Kodaikanal | Palehua | 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

*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

DECEMBER 1990

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	280	CUBA	44 NS	1256.0E		493.00		21.0		
	235	CUBA	44 NS	1256.0E		493.00		13.0		
	200	HIRA	8 S	0313.4	0313.7	1.0	62.0			0
	245	LEAR	8 S	0401.0E	0401.0	1.00	110.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0401.3	0401.3	28.4	490.0			0
	245	LEAR	8 S	0412.0E	0412.0	1.00	230.0			QL=4 ST=2 TYP=3
	500	HIRA	41 F	0554.0	0651.5	75.00	27.0			0 SUNSET
	9300	KISV	2 S/F	0632.0	0632.6	1.4	7.0			
	5900	KISV	2 S/F	0632.0	0632.6	1.3	6.0			
	100	GORK	46 C	0723.2	0724.0		340.0			
	100	GORK	46 C	0723.2	0723.8	1.4	230.0			
	245	LEAR	8 S	0745.0E	0745.0	U	58.0			QL=4 ST=2 TYP=3
	260	ONDR	8 S	1255.2	1255.5	2.0	16.0			
	9500	CUBA	21 GRF	1333.0E	1855.0	478.00	24.0			2131 OFF
	9400	HUAN	1 S	1351.4	1353.4	5.7	6.5	3.2		
	6700	CUBA	1 S	1352.5	1353.5	2.5	25.0	12.0		POL FAILURE
	9500	CUBA	1 S	1353.1	1353.4	3.9	14.0	7.0		
	15000	CUBA	2 S/F	1419.0	1420.7	4.4	12.0	6.0		00L
	6700	CUBA	20 GRF	1426.0	1429.0	13.0	4.0	2.0		
	245	SGMR	8 S	1534.0E	1534.0	U	150.0			QL=2 ST=2 TYP=3
6700	CUBA	20 GRF	1617.0	1756.0	342.00	11.0			2159 OFF	
9400	HUAN	2 S/F	2043.2	2045.7	5.2	7.6	4.4			
245	LEAR	8 S	2250.0E	2250.0	1.00	160.0			QL=4 ST=2 TYP=3	
02	500	HIRA	41 F	0023.0	0039.3	26.0	28.0			WL
	204	IZMI	41 F	0704.0	0706.1	3.5	25.0			
	2950	GORK	20 GRF	0827.4	0829.6	9.3	3.0			
	9500	POTS	40 F	1113.0	1118.2	8.0	13.0			
03	235	CUBA	44 NS	1254.0E		501.00		14.0		
	280	CUBA	44 NS	1254.0E		501.00		24.0		
	2840	PEKG	1 S	0222.0	0222.6	1.5	6.0			
	200	HIRA	8 S	0540.5	0540.6	0.5	45.0			0
	100	HIRA	8 S	0540.6	0540.6	0.8	1000.00			
	2950	GORK	20 GRF	0816.6	0817.0	21.7	5.0			
	9300	KISV	2 S/F	1016.0	1016.9	4.8	6.0			
	5900	KISV	2 S/F	1106.7	1112.3	7.6	4.0			
	5900	KISV	2 S/F	1130.6	1131.3	4.0	4.0			
	5900	KISV	2 S/F	1151.6	1152.5	4.2	6.0			
	2800	OTTA	20 GRF	1603.0	1604.5	12.0	4.6	2.0		
	6700	CUBA	2 S/F	1639.0	1640.8	6.5	7.0	3.0		
	6700	CUBA	2 S/F	1649.3	1651.0	6.7	14.0	7.0		
	4995	SGMR	8 S	1650.0E	1650.0	U	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1650.0E	1650.0	U	34.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1650.2	1650.7	3.8	15.0	7.0		
	6700	CUBA	46 C	1705.0E	1708.0	8.00	29.0			
	9500	CUBA	2 S/F	1706.1	1708.8	6.4	27.0	13.0		
	6700	CUBA	30 PBI	1712.8		10.2	2.0	1.0		
	6700	CUBA	1 S	1716.5	1717.4	3.5	4.0	2.0		
	6700	CUBA	23 GRF	1732.0	1735.0	16.0	10.0	5.0		
	2800	OTTA	20 GRF	1733.0	1735.5	24.0	7.2	3.0		
	9500	CUBA	25 R	1734.0		151.0	9.0	4.0		
	15000	CUBA	1 S	1734.0	1735.0	3.0	11.0	5.0		96R
	2800	OTTA	20 GRF	1824.5	1826.5	10.0	5.0	2.0		
	9500	CUBA	1 S	1841.2	1841.4	0.8	10.0	5.0		
	2800	OTTA	22 GRF	1844.0	1850.5	14.0	8.1	3.0		
	235	CUBA	7 C	1845.0	1846.0	13.0	20.0			
	280	CUBA	7 C	1846.0	1849.0	12.0	21.0			
	610	PALE	20 GRF	1847.0E	1849.0	3.00	61.0			QL=4 ST=2 TYP=2
410	PALE	20 GRF	1848.0E	1849.0	2.00	37.0			QL=4 ST=2 TYP=2	
9400	HUAN	3 S	1915.6	1919.8	7.6	39.8	15.8			
6700	CUBA	21 GRF	1916.0	1920.0	84.0	10.0	5.0			
15000	CUBA	23 GRF	1918.0	1920.0	28.0	15.0	7.0		SOR	
6700	CUBA	2 S/F	1918.0	1919.8	6.2	17.0	8.0			
9500	CUBA	2 S/F	1918.3	1919.8	7.2	27.0	13.0			
2800	OTTA	20 GRF	1918.5	1922.5	23.0	4.6	2.0			
9400	HUAN	30 PBI	1923.2	1923.2	34.5	12.6	6.2			
9400	HUAN	2 S/F	1927.9	1932.4	7.6	10.5	3.6			
2695	PENT	20 GRF	2005.0	2014.0	63.0	7.5	3.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
03	9400	HUAN	22 GRF	2010.3	2033.6	76.7	12.6	5.8		
04	127	TORN	43 NS	0723.0		417.0		6.0		V=1
	235	CUBA	44 NS	1255.0E		485.00		14.0		
	280	CUBA	44 NS	1255.0E		485.00		24.0		
	2840	PEKG	46 C	0157.0	0202.0	11.0	410.1			
	8800	LEAR	4 S/F	0158.0E	0200.0	9.00	350.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0158.0E	0201.0	7.00	460.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0158.0E	0202.0	7.00	310.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0158.0E	0200.0	8.00	370.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0158.0E	0201.0	7.00	440.0			QL=4 ST=2 TYP=3
	15400	LEAR	49 GB	0159.0E	0201.0	4.00	510.0			QL=4 ST=2 TYP=6
	2695	PALE	4 S/F	0159.0E	0202.0	6.00	310.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0200.0E	0201.0	3.00	480.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0201.0E	0201.0	2.00	33.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0201.0E	0202.0	2.00	40.0			QL=4 ST=2 TYP=3
	650	GORK	22 GRF	0618.0E	0836.0	165.00	4.0			
	113	POTS	4 S/F	0635.6	0635.8	1.0	700.0			
	204	IZMI	41 F	0700.0	0705.2	6.5	35.0			
	9300	KISV	20 GRF	0732.6	0733.2	15.4	5.0			
	5900	KISV	2 S/F	0732.7	0733.6	5.8	10.0			
	5900	KISV	22 GRF	0912.4	0913.3	12.2	7.0			
	260	ONDR	40 F	0920.0	1042.1	185.00	6.0			
	5900	KISV	2 S/F	0933.7	0934.5	2.6	5.0			
	9300	KISV	2 S/F	0933.9	0934.5	1.7	5.0			
	650	GORK	4 S/F	1032.3E	1036.2	7.60	35.0			
	260	ONDR	8 S	1041.5	1042.1	1.0	6.0			
	2950	GORK	1 S	1136.2	1136.9	1.2	10.0			
	2800	OTTA	4 S/F	1430.4	1435.9	9.6	72.6	29.0		
	4995	SGMR	4 S/F	1432.0E	1434.0	6.00	92.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1432.0E	1435.0	5.00	72.0			QL=4 ST=2 TYP=3
	6700	CUBA	46 C	1432.0	1436.1	7.0	103.0	37.0		
15400	SGMR	4 S/F	1433.0E	1434.0	5.00	85.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1433.0E	1435.0	4.00	110.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1433.0E	1435.0	4.00	120.0			QL=2 ST=2 TYP=3	
2695	SVTO	4 S/F	1433.0E	1435.0	4.00	68.0			QL=2 ST=2 TYP=3	
15000	CUBA	2 S/F	1435.0E	1435.9	30.00	110.0			51R	
15000	CUBA	29 PBI	1438.0		92.0	32.0	16.0		00R	
6700	CUBA	30 PBI	1439.0		125.0	14.0	7.0			
6700	CUBA	1 S	1439.6	1440.8	3.7	15.0	7.0			
2800	OTTA	29 PBI	1440.5	1440.5	128.0	12.0	6.0			
2800	OTTA	3 S	1602.5	1604.8	6.3	29.5	6.0			
6700	CUBA	2 S/F	1634.3	1635.1	4.7	13.0	6.0			
6700	CUBA	1 S	1649.1	1649.8	3.9	11.0	5.0			
9400	HUAN	3 S	2115.8	2119.7	7.2	23.0	12.6			
200	HIRA	41 F	2132.0E	2321.0	210.00	65.0			0	
05	245	SVTO	44 NS	0642.0E	0646.0	115.00	170.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		120.0	25.0			
	260	ONDR	44 NS	0900.0E	1123.2	260.00	72.0			
	280	CUBA	44 NS	1315.0E		465.00		27.0		
	235	CUBA	44 NS	1315.0E		465.00		18.0		
	245	SGMR	44 NS	1737.0E	1737.0	4.00	63.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1813.0E	1850.0	152.00	94.0			QL=4 ST=2 TYP=1
	245	PALE	44 NS	1850.0E	1850.00	82.00	92.0			QL=4 ST=2 TYP=1
	245	PALE	4 S/F	0222.0E	0224.0	3.00	60.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0222.4	0224.4	3.0	130.0			WL
	100	HIRA	46 C	0222.4	0223.8	2.4	140.0			
	245	LEAR	8 S	0223.0E	0224.0	1.00	64.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0224.0E	0224.0	1.00	190.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0224.0E	0224.0	1.00	150.0			QL=4 ST=2 TYP=3
	2840	PEKG	46 C	0519.0	0525.7	14.0	206.4			
	2840	PEKG	46 C	0559.0	0640.1	81.0	31.7			
	245	LEAR	8 S	0601.0E	0602.0	1.00	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0632.0E	0632.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0632.0E	0632.0	U	83.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0642.0E	0646.0	4.00	180.0			QL=4 ST=2 TYP=5
2950	GORK	23 GRF	0646.7	0753.9	283.30	22.0				
245	LEAR	8 S	0707.0E	0707.0	1.00	55.0			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 (2 Hz)		
05	234	POTS	4 S/F	0714.8	0716.0	2.7	100.0			
	113	POTS	42 SER	0716.0U	0716.7	1.4U	160.0			
	245	LEAR	8 S	0720.0E	0720.0	1.0D	80.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0720.0	0725.6	13.0D	193.6			
	5900	KISV	47 GB	0720.6	0725.6	8.0	392.0			
	5900	KISV	29 PBI	0720.6	0728.6	64.6	39.0			
	9300	KISV	4 S/F	0720.7	0726.0U	8.1	115.0D			
	9300	KISV	29 PBI	0720.7	0728.8	56.0	22.0			
	950	GORK	21 GRF	0721.0	0727.3	11.5	5.0			
	2950	GORK	4 S/F	0721.0	0725.5	7.4	180.0			
	3013	IZMI	7 C	0721.0	0725.5	10.0	94.0			
	9100	GORK	4 S/F	0721.0	0725.6	8.1	435.0			
	2850	CRIM	45 C	0721.5	0725.0		197.0			
	2850	CRIM	29 PBI	0721.5	0731.5	63.0	8.0	3.0		
	2850	CRIM	45 C	0721.5	0722.8	10.0	78.0	63.0		
	8800	LEAR	4 S/F	0722.0E	0725.0	6.0D	360.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0722.0E	0725.0	6.0D	210.0			QL=4 ST=2 TYP=5
	1415	LEAR	4 S/F	0722.0E	0725.0	6.0D	77.0			QL=4 ST=2 TYP=5
	15400	LEAR	4 S/F	0722.0E	0725.0	9.0D	380.0			QL=4 ST=3 TYP=3
	2695	LEAR	4 S/F	0722.0E	0725.0	6.0D	170.0			QL=4 ST=2 TYP=5
	2695	SVTO	4 S/F	0722.0E	0725.0	6.0D	200.0			QL=4 ST=2 TYP=5
	4995	SVTO	4 S/F	0722.0E	0725.0	6.0D	240.0			QL=4 ST=2 TYP=5
	950	GORK	46 C	0722.3	0722.4	1.1	11.0			
	950	GORK	46 C	0722.3	0722.8		14.0			
	8800	SVTO	4 S/F	0723.0E	0725.0	5.0D	390.0			QL=4 ST=2 TYP=3
	15000	KISV	4 S/F	0723.6	0725.6	5.5	296.0			
	1470	POTS	4 S/F	0724.0	0726.0	4.0U	63.0U			
	1415	SVTO	4 S/F	0724.0E	0725.0	3.0D	84.0			QL=4 ST=2 TYP=5
	15400	SVTO	4 S/F	0724.0E	0725.0	3.0D	250.0			QL=4 ST=2 TYP=3
	9500	POTS	4 S/F	0724.0	0725.5	4.0	264.0U			
	3000	POTS	4 S/F	0724.0	0725.6	4.0U	153.0U			
	950	GORK	5 S	0724.0	0725.7	3.3	11.0			
	9100	GORK	29 PBI	0729.1	0729.1	246.9D	20.0			
245	LEAR	8 S	0739.0E	0740.0	1.0D	67.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0754.0E	0755.0	1.0D	60.0			QL=4 ST=2 TYP=3	
245	LEAR	4 S/F	0803.0E	0804.0	4.0D	84.0			QL=4 ST=2 TYP=3	
127	TORN	42 SER	0814.4	0815.9	5.0	270.0	10.0			
245	LEAR	8 S	0815.0E	0815.0	1.0D	110.0			QL=4 ST=2 TYP=3	
245	LEAR	4 S/F	0834.0E	0836.0	3.0D	66.0			QL=4 ST=2 TYP=5	
5900	KISV	1 S	1003.5	1003.9	1.5	8.0				
9300	KISV	2 S/F	1005.5	1006.1	1.5	6.0				
6700	CUBA	21 GRF	1441.0	1449.0	40.0	6.0	3.0			
6700	CUBA	1 S	1443.4	1443.8	8.9	8.0	4.0			
2800	OTTA	3 S	1658.9	1659.8	5.0	8.8	3.0			
2800	OTTA	20 GRF	1720.0	1900.0	155.0	14.5	7.0			
245	PALE	8 S	1730.0E	1731.0	1.0D	100.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1731.0E	1731.0	1.0D	120.0			QL=4 ST=3 TYP=3	
2695	PENT	22 GRF	2047.0	2107.0	120.0D	32.9	13.0			
06	204	IZMI	43 NS	0700.0		300.0	15.0			
	127	TORN	43 NS	0900.0		320.0		7.0		V=1
	235	CUBA	44 NS	1255.0E		485.0D		21.0		
	410	LEAR	8 S	0021.0E	0021.0	U	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0021.0E	0021.0	U	72.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0141.0E	0141.0	U	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0153.0E	0153.0	1.0D	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0213.0	0216.5	6.0	11.5			
	410	LEAR	8 S	0552.0E	0553.0	1.0D	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0628.0E	0629.0	2.0D	33.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0628.0E	0629.0	2.0D	50.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0628.2	0629.2	5.2	18.0			
	5900	KISV	45 C	0628.4	0629.1		49.0			
	9100	GORK	2 S/F	0628.4	0629.6	5.6	55.0			
	5900	KISV	45 C	0628.4	0629.9	19.6	74.0			
	2850	CRIM	7 C	0628.5	0630.0	6.2	25.0	8.0		
	2840	PEKG	45 C	0628.5	0630.0	30.5	37.9			
950	GORK	45 C	0628.5	0629.1	4.5	7.0				
950	GORK	45 C	0628.5	0630.1		10.0				
650	GORK	4 S/F	0628.5	0629.3	4.9	13.0				

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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		
06	2850	CRIM	7 C	0628.5	0631.9		16.0			
	9300	KISV	46 C	0628.6	0629.1		35.0			
	9300	KISV	46 C	0628.6	0630.5		31.0			
	9300	KISV	46 C	0628.6	0629.7	12.4	55.0			
	9300	KISV	46 C	0628.6	0629.9		53.0			
	15000	KISV	46 C	0628.7	0629.1		19.0			
	15000	KISV	46 C	0628.7	0629.6	8.8	44.0			
	15000	KISV	46 C	0628.7	0629.9		32.0			
	410	LEAR	8 S	0629.0E	0629.0	U	49.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0629.0E	0629.0	1.00	18.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0629.0E	0629.0	3.00	26.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0629.0E	0629.0	1.00	31.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0753.3	0754.0	6.7	5.0			
	15000	KISV	45 C	0801.0	0804.5	7.5	12.0			
	15000	KISV	45 C	0801.0	0801.9		7.0			
	9300	KISV	45 C	0801.2	0802.0		6.0			
	9300	KISV	45 C	0801.2	0802.6	4.3	8.0			
	5900	KISV	2 S/F	0801.6	0801.9	3.0	9.0			
	9300	KISV	2 S/F	0855.5	0856.4	5.5	7.0			
	5900	KISV	2 S/F	0855.7	0856.5	6.3	10.0			
	9300	KISV	21 GRF	0915.2	0925.6	11.2	6.0			
	5900	KISV	22 GRF	0925.0	0925.6	13.0	6.0			
	260	ONDR	42 SER	1000.0	1025.5	123.0	23.0			
	5900	KISV	21 GRF	1020.8	1023.7	10.6	6.0			
	204	IZMI	41 F	1030.0	1033.6	4.0	67.0			
	5900	KISV	2 S/F	1107.9	1109.6	8.9	7.0			
	9300	KISV	2 S/F	1108.1	1109.7	3.0	11.0			
	234	POTS	4 S/F	1123.9	1124.8	1.6	100.0			
	536	ONDR	42 SER	1220.0	1220.1	3.0	30.0			
	234	POTS	8 S	1340.3	1340.5	0.5	140.0			
	234	POTS	4 S/F	1407.1	1407.5	0.7	120.0			
	9400	HUAN	3 S	1417.3	1421.3	8.1	37.9	16.4		
	6700	CUBA	1 S	1419.8	1420.7	2.2	37.0	18.0		
6700	CUBA	29 PBI	1422.0		5.8	4.0	2.0			
6700	CUBA	1 S	1544.2	1544.4	0.6	3.0	1.0			
2800	OTTA	20 GRF	1549.0	1603.0	53.0	13.1	6.0			
6700	CUBA	20 GRF	1550.0	1608.0	73.0	11.0	5.0			
9400	HUAN	22 GRF	1557.1	1651.4	112.1	6.9	3.2			
245	SGMR	8 S	1601.0E	1601.0	U	82.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1803.0E	1803.0	U	53.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1836.0E	1836.0	1.00	68.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1855.0E	1855.0	1.00	150.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1855.0E	1855.0	1.00	130.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1908.0E	1908.0	U	80.0			QL=4 ST=2 TYP=3	
9400	HUAN	2 S/F	2222.8	2225.4	5.8	27.6	12.8			
07	127	TORN	43 NS	0739.0	0745.7	60.0	40.0	6.0		V=1
	280	CUBA	44 NS	1254.0E		457.00		22.0		
	235	CUBA	44 NS	1254.0E		457.00		13.0		
	2850	CRIM	20 GRF	0718.0	0722.1	33.0	23.3	7.0		
	2950	GORK	20 GRF	0721.6	0732.4	101.2	17.0			
	5900	KISV	45 C	0727.9	0728.5		7.0			
	5900	KISV	45 C	0727.9	0729.8	6.2	12.0			
	9300	KISV	2 S/F	0728.1	0729.9	3.0	8.0			
	5900	KISV	46 C	0927.7	0929.1		9.0			
	5900	KISV	46 C	0927.7	0930.5	22.0	13.0			
	5900	KISV	46 C	0927.7	0937.6		7.0			
	9300	KISV	22 GRF	1023.5	1024.2	10.5	5.0			
	5900	KISV	2 S/F	1028.8	1030.1	7.7	9.0			
	260	ONDR	8 S	1243.3	1244.4	1.2	16.0			
	260	ONDR	8 S	1319.2	1320.5	2.7	11.0			
	9400	HUAN	3 S	1407.4	1409.2	4.6	66.9	22.4		
	6700	CUBA	1 S	1407.5	1409.3	6.5	69.0	21.0		
	9500	CUBA	1 S	1407.9	1409.3	6.1	83.0	30.0		
	8800	SGMR	8 S	1408.0E	1409.0	2.00	76.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1408.0E	1409.0	2.00	70.0			QL=4 ST=2 TYP=3
2695	SGMR	8 S	1408.0E	1409.0	2.00	87.0			QL=4 ST=2 TYP=3	
15000	CUBA	1 S	1408.0	1409.4	3.0	47.0	23.0		46R	
1415	SGMR	8 S	1409.0E	1409.0	1.00	32.0			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		
07	15400	SGMR	8 S	1409.0E	1409.0	U	29.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1409.0E	1409.0	U	30.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1409.0	1409.3	1.3	32.0	10.0		
	15000	CUBA	29 PBI	1411.0		12.0	13.0	6.0		00L
	9400	HUAN	29 PBI	1412.0	1412.0	31.5	8.6	3.8		
	9500	CUBA	29 PBI	1414.0		8.5	13.0	6.0		
	6700	CUBA	29 PBI	1414.0		12.0	9.0	4.0		
	6700	CUBA	1 S	1516.3	1516.7	1.0	3.0	1.0		
	9400	HUAN	1 S	1820.3	1823.0	6.9	5.1	2.6		
	6700	CUBA	2 S/F	1924.5	1925.5	4.0	9.0	4.0		
08	127	TORN	43 NS	0806.0		306.0		8.0		V=0
	100	HIRA	41 F	0550.5	0551.0	4.0	1000.00			
	2950	GORK	4 S/F	0641.7	0644.8	5.3	24.0			
	4995	LEAR	4 S/F	0642.0E	0644.0	3.00	30.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0642.0E	0644.0	3.00	90.0			QL=2 ST=2 TYP=3
	9100	GORK	2 S/F	0642.0	0644.3	5.0	26.0			
	2840	PEKG	46 C	0642.0	0644.3	10.0	53.2			
	950	GORK	21 GRF	0642.3	0655.0	75.2U	6.0			
	2850	CRIM	7 C	0642.4	0645.0		36.0			
	2850	CRIM	7 C	0642.4	0643.0	5.0	33.0	12.0		
	5900	KISV	45 C	0642.4	0643.1		20.0			
	9300	KISV	4 S/F	0642.4	0644.3	4.2	28.0			
	5900	KISV	45 C	0642.4	0644.3	18.6	38.0			
	2850	CRIM	30 PBI	0642.4	0647.4	7.0	6.5	2.0		
	9300	KISV	23 GRF	0642.4	0650.4	20.2	8.0			
	15000	KISV	2 S/F	0642.6	0644.3	3.2	16.0			
	15000	KISV	23 GRF	0642.6	0650.5	19.4	9.0			
	650	GORK	21 GRF	0642.7	0649.1	80.3	5.0			
	2695	LEAR	8 S	0643.0E	0644.0	2.00	31.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0643.0E	0644.0	1.00	24.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0643.0E	0644.0	2.00	31.0			QL=2 ST=2 TYP=3
	650	GORK	4 S/F	0643.8	0644.8	2.9	65.0			
	950	GORK	4 S/F	0643.8	0644.8	2.9	45.0			
	410	LEAR	4 S/F	0644.0E	0644.0	4.00	34.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0644.0E	0644.0	2.00	52.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0644.0E	0644.0	1.00	18.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0644.0E	0644.0	2.00	71.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0644.0E	0644.0	2.00	51.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	0644.0E	0644.0	U	26.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	0644.0E	0644.0	1.00	38.0			QL=2 ST=2 TYP=3
	650	GORK	1 S	0647.9	0648.1	0.5	5.0			
	2850	CRIM	1 S	0648.0	0648.2	1.0	11.6	4.0		
	245	LEAR	8 S	0649.0E	0649.0	U	15.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0653.5	0708.0	21.5	3100.0			
	200	GORK	41 F	0656.0	0710.1		95.0			
	200	GORK	41 F	0656.0	0707.9	14.6	570.0			
	200	HIRA	42 SER	0657.4	0707.5	11.9	1800.00			MR SUNSET
	100	GORK	41 F	0657.9	0702.2	10.6	1500.0			
	100	GORK	41 F	0657.9	0707.9		110.0			
	245	LEAR	4 S/F	0658.0E	0701.0	4.00	180.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0658.0E	0702.0	4.00	240.0			QL=2 ST=2 TYP=3
	127	TORN	46 C	0658.1	0701.9	5.2	650.00	30.00		
	3013	IZMI	41 F	0700.0	0701.0	8.0	5.0			
	100	HIRA	45 C	0701.1	0702.0	2.0	1000.00			
	127	TORN	42 SER	0706.0	0707.8	3.0	60.00	10.00		
	5900	KISV	2 S/F	0733.8	0734.0	4.6	5.0			
	5900	KISV	2 S/F	0827.0	0827.5	2.5	6.0			
	15000	KISV	2 S/F	0927.6	0928.0	2.0	15.0			
	5900	KISV	23 GRF	0946.1	0959.9	54.0	13.0			
	9300	KISV	21 GRF	0949.1	1028.0	50.7	18.0			
	204	IZMI	5 S	1003.0	1003.1	0.2	75.0	65.0		
	5900	KISV	2 S/F	1027.7	1028.0	1.4	14.0			
	9100	GORK	1 S	1027.8	1028.0	0.5	15.0			
204	IZMI	42 SER	1030.8	1031.0	1.0	600.0				
260	ONDR	49 GB	1050.0	1143.9	97.0	159.0				
204	IZMI	41 F	1051.5	1052.2	3.0	16.0				
127	TORN	4 S/F	1052.0	1052.3	2.0	150.0	50.0			
536	ONDR	47 GB	1130.6	1143.4	15.9	25.0				

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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		
08	200	GORK	4 S/F	1130.9	1131.1	0.8	290.0			
	100	GORK	4 S/F	1130.9	1131.1	0.9	400.0			
	5900	KISV	22 GRF	1132.7	1145.8	25.9	15.0			
	9300	KISV	22 GRF	1132.8	1144.5	24.6	8.0			
	113	POTS	42 SER	1138.5	1141.0	10.7	200.0			
	204	IZMI	42 SER	1140.0	1143.0	8.0	1000.0			
	234	POTS	4 S/F	1140.0	1143.2	7.7	700.0			
	127	TORN	46 C	1140.0	1143.5	4.5	580.00	130.0		
	40	POTS	4 S/F	1140.5	1140.6	7.0	3000.0			
	245	SVTO	8 S	1143.0E	1143.0	2.00	240.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1145.0E	1145.0	U	87.0			QL=4 ST=2 TYP=3
	6700	CUBA	23 GRF	1324.0	1326.0	30.0	12.0	6.0		
	9400	HUAN	20 GRF	1420.4	1515.8	133.7	6.5	3.6		
	245	SGMR	8 S	1601.0E	1602.0	1.00	150.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	2011.2	2012.4	5.6	9.7	4.8		
	100	HIRA	42 SER	2244.2	2308.6	30.4	790.0			
	200	HIRA	42 SER	2248.8	2250.2	33.0	278.0			MR
	410	PALE	8 S	2256.0E	2257.0	2.00	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2256.0E	2257.0	2.00	71.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2257.0E	2257.0	1.00	92.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	2257.0E	2257.0	1.00	35.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2301.0E	2301.0	1.00	65.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	2307.0E	2308.0	6.00	69.0			QL=4 ST=3 TYP=3
	610	PALE	4 S/F	2307.0E	2308.0	3.00	81.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2308.0E	2308.0	2.00	250.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	2310.0E	2317.0	8.00	36.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2312.0E	2315.0	9.00	910.0			QL=2 ST=2 TYP=6
	410	LEAR	8 S	2316.0E	2318.0	2.00	340.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	2316.0E	2317.0	2.00	36.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	2316.0E	2322.0	6.00	20.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2317.0E	2317.0	U	37.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2321.0E	2322.0	1.00	30.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2337.0E	2338.0	1.00	110.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2337.0E	2338.0	1.00	91.0			QL=4 ST=2 TYP=3	
09	200	GORK	44 NS	0622.0E		312.00		5.0		
	260	ONDR	44 NS	0950.0E	1149.2	205.00	186.0			
	127	TORN	43 NS	1027.0		205.0		3.0		V=0
	245	SGMR	44 NS	1240.0E	1436.0	178.00	140.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1702.0E	1707.0	44.00	86.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1739.0E	1739.0	34.00	160.0			QL=4 ST=2 TYP=1
	410	LEAR	49 GB	0003.0E	0007.0	8.00	4000.0			QL=2 ST=2 TYP=6
	410	PALE	49 GB	0003.0E	0007.0	8.00	3400.0			QL=4 ST=2 TYP=6
	245	LEAR	4 S/F	0005.0E	0007.0	5.00	92.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0005.7	0008.4	5.3	117.0			MR
	610	LEAR	8 S	0006.0E	0007.0	1.00	23.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0006.0E	0007.0	1.00	17.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0006.0E	0007.0	2.00	83.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0007.0E	0007.0	U	22.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0009.0E	0010.0	1.00	16.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0111.0E	0112.0	2.00	58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0111.0E	0112.0	2.00	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0112.0E	0112.0	U	170.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0112.0E	0112.0	U	65.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0114.0E	0114.0	1.00	250.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0248.8	0249.5	2.8	170.0			MR
	100	HIRA	46 C	0311.2	0311.9	3.3	915.0			
	200	HIRA	45 C	0311.4	0312.1	1.5	605.0			MR
	2840	PEKG	1 S	0312.0	0312.8	2.0	6.8			
	410	LEAR	49 GB	0350.0E	0355.0	8.00	2200.0			QL=2 ST=2 TYP=7
	610	LEAR	8 S	0352.0E	0353.0	1.00	50.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0354.0E	0354.0	1.00	28.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0354.0	0355.7	3.0	6.8			
	2840	PEKG	45 C	0532.0	0534.4	5.0	20.0			
	2840	PEKG	1 S	0538.0	0539.0	3.0	3.6			
2840	PEKG	1 S	0558.0	0604.1	9.0	4.3				
200	HIRA	41 F	0611.0	0618.0	18.5	105.0			WR	
100	HIRA	46 C	0611.6	0613.1	3.0	150.0				
5900	KISV	22 GRF	0611.8	0619.7	43.7	10.0				

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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)			
09	9300	KISV	22 GRF	0612.4	0619.5	27.1	10.0			
	410	LEAR	8 S	0613.0E	0613.0	1.00	32.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0613.0E	0613.0	1.00	220.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0613.0E	0613.0	1.00	13.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0613.0	0613.9	2.0	18.6			
	2840	PEKG	22 GRF	0615.0	0618.9	10.0	10.0			
	610	LEAR	4 S/F	0617.0E	0617.0	3.00	140.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0618.0E	0618.0	U	18.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0618.0E	0618.0	U	13.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0619.0E	0619.0	1.00	25.0			QL=2 ST=2 TYP=3
	3013	IZMI	5 S	0657.5	0700.5	6.5	10.0	5.0		
	950	GORK	20 GRF	0714.5	0738.3	40.8	3.0			
	5900	KISV	47 GB	0814.5	0816.9	15.0	351.0			
	9300	KISV	4 S/F	0815.7	0817.0U	12.7	85.00			
	9100	GORK	4 S/F	0815.7	0816.9	6.4	345.0			
	15000	KISV	4 S/F	0815.8	0816.7	4.7	125.0			
	4995	LEAR	4 S/F	0816.0E	0816.0	9.00	290.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0816.0E	0818.0	4.00	170.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0816.0E	0817.0	6.00	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0816.0E	0816.0	8.00	330.0			QL=2 ST=3 TYP=3
	2695	LEAR	4 S/F	0816.0E	0816.0	8.00	180.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0816.0E	0816.0	4.00	240.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0816.0E	0816.0	5.00	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0816.0E	0816.0	6.00	190.0			QL=4 ST=2 TYP=3
	9500	POTS	4 S/F	0816.0	0816.9	5.0	298.0U			
	950	GORK	4 S/F	0816.1	0816.2	2.2	700.0			
	650	GORK	46 C	0816.1	0816.5	1.5	30.0			
	650	GORK	46 C	0816.1	0817.6		25.0			
	2950	GORK	4 S/F	0816.2	0816.9	5.1	156.0			
	3013	IZMI	7 C	0816.3	0816.8	8.5	74.0	40.0		
	3000	POTS	4 S/F	0816.3	0816.9	11.2	180.0U			
	2850	CRIM	3 S	0816.4	0817.0	1.4	208.0	69.0		
	2850	CRIM	30 PBI	0816.4	0817.8	180.0	136.0			
	650	GORK	30 PBI	0817.6	0817.6	162.4U	4.0			
	950	GORK	30 PBI	0818.3	0818.3	20.9	17.0			
	2950	GORK	30 PBI	0821.3	0821.3	94.9	24.0			
	9100	GORK	29 PBI	0822.1	0822.1	187.9U	16.0			
	650	GORK	41 F	0826.6	0829.1	4.8	30.0			
	650	GORK	41 F	0826.6	0831.1		40.0			
	204	IZMI	42 SER	0836.0	0838.0	18.0	700.0			
	5900	KISV	2 S/F	0836.5	0838.0	4.5	7.0			
	245	LEAR	8 S	0837.0E	0837.0	1.00	82.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0837.0E	0837.0	1.00	79.0			QL=4 ST=2 TYP=3
	200	GORK	41 F	0837.1	0856.0		20.00			
	200	GORK	41 F	0837.1	0837.9	19.4	280.0			
	9300	KISV	2 S/F	0837.3	0838.0	3.6	7.0			
	234	POTS	4 S/F	0837.4	0837.5	1.3	150.0			
	3013	IZMI	5 S	0837.5	0838.0	2.0	5.0	3.0		
	650	GORK	4 S/F	0837.6	0838.0	0.8	16.0			
	950	GORK	2 S/F	0837.6	0838.2	1.1	6.0			
127	TORN	7 C	0837.7	0838.1	1.4	120.0	60.0			
950	GORK	21 GRF	0849.5	0924.4	130.0	5.0				
650	GORK	2 S/F	0850.6	0851.3	1.3	7.0				
245	LEAR	49 GB	0917.0E	0918.0	3.00	4500.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	0917.0E	0918.0	1.00	74.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0917.0E	0918.0	3.00	4200.0			QL=4 ST=2 TYP=3	
3013	IZMI	41 F	0917.5	0923.0	10.0	20.0				
234	POTS	41 F	0917.6	0917.7	8.0	12000.0				
113	POTS	4 S/F	0917.6	0917.9	1.0	400.0				
200	GORK	47 GB	0917.7	0918.0	2.8	25400.0				
100	GORK	41 F	0917.7	0920.3		30.00				
100	GORK	41 F	0917.7	0918.3	2.9	2900.0				
650	GORK	41 F	0917.8	0918.0	6.6	26.0				
GORK	41 F	0917.8	0923.0		48.0					
900	KISV	23 GRF	0917.8	0933.4	27.5	12.0				
9300	KISV	21 GRF	0917.8	0922.9	11.1	19.0				
950	GORK	4 S/F	0921.8	0922.9	2.6	140.0				
2950	GORK	4 S/F	0921.9	0923.0	2.9	27.0				
600	HUMN	2 S/F	0922.0	0923.0	2.5	23.0	7.0			

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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		
09	4995	LEAR	8 S	0922.0E	0922.0	1.00	37.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0922.0E	0922.0	2.00	210.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0922.0E	0923.0	2.00	41.0			QL=4 ST=2 TYP=3
	3000	POTS	4 S/F	0922.0	0923.0	3.0	46.0U			
	2695	SVTO	8 S	0922.0E	0923.0	2.00	48.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0922.0E	0922.0	1.00	220.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0922.0E	0923.0	1.00	38.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	0922.0	0923.1	3.0	53.0	17.0		
	9500	POTS	26 FAL	0922.0	0923.3	27.0	20.0U			
	15000	KISV	20 GRF	0922.1	0927.8	15.7	13.0			
	5900	KISV	45 C	0922.4	0922.7	2.5	26.0			
	5900	KISV	45 C	0922.4	0922.9		21.0			
	8800	LEAR	8 S	0925.0E	0925.0	U	18.0			QL=2 ST=2 TYP=3
	5900	KISV	45 C	0929.4	0930.2	3.0	6.0			
	5900	KISV	45 C	0929.4	0930.8		6.0			
	410	LEAR	8 S	0948.0E	0949.0	1.00	230.0			QL=2 ST=2 TYP=3
	536	ONDR	46 C	1033.1	1035.5	5.9	9.0			
	234	POTS	41 F	1115.6	1118.9	12.0	150.0			
	5900	KISV	22 GRF	1115.8	1130.3	23.9	10.0			
	204	I2MI	42 SER	1116.0	1118.7	10.0	700.0			
	9300	KISV	22 GRF	1116.1	1130.3	33.2	12.0			
	245	SVTO	8 S	1117.0E	1118.0	2.00	170.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1117.0E	1118.0	2.00	110.0			QL=4 ST=2 TYP=3
	127	TORN	46 C	1118.6	1119.1	1.5	100.0	50.0		
	204	I2MI	41 F	1133.0	1133.6	2.0	180.0			
	204	I2MI	41 F	1147.5	1148.5	2.5	3200.0			
	245	SVTO	8 S	1148.0E	1148.0	1.00	170.0			QL=4 ST=2 TYP=3
	234	POTS	4 S/F	1148.1	1148.4	1.1	1700.0			
	113	POTS	4 S/F	1148.4	1148.6	1.6	2500.00			
	40	POTS	4 S/F	1148.5	1148.7	1.1	2300.0			
	410	SVTO	8 S	1149.0E	1149.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1240.0E	1240.0	U	99.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1407.4	1409.7	10.4	13.1	5.8		
	600	HUMN	1 S	1430.5	1430.7	0.4	30.0	15.0		
	245	SVTO	8 S	1436.0E	1436.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1453.0E	1455.0	3.00	83.0			QL=4 ST=2 TYP=3
	9400	HUAN	2 S/F	1531.5	1536.5	12.7	4.8	2.6		
	410	SGMR	8 S	1533.0E	1533.0	1.00	32.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1533.0E	1533.0	1.00	360.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1533.6	1534.0	2.8	16.5	4.0		
610	SGMR	8 S	1534.0E	1534.0	1.00	37.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1541.0E	1541.0	1.00	120.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1542.0E	1542.0	1.00	290.0			QL=4 ST=2 TYP=3	
9400	HUAN	2 S/F	1957.2	2002.1	7.8	9.8	4.2			
200	HIRA	42 SER	2236.3	2236.4	37.0	74.0			0	
100	HIRA	46 C	2242.1	2243.5	1.7	3200.0			0	
10	200	GORK	43 NS	0558.0		422.0		5.0		
	127	TORN	43 NS	0721.0		360.0		5.0		V=1
	100	HIRA	8 S	0001.9		0.8	1000.00			
	245	LEAR	8 S	0002.0E	0002.0	U	81.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0002.2	0002.5	0.5	150.0			0
	410	LEAR	8 S	0022.0E	0024.0	2.00	48.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0022.0E	0023.0	2.00	96.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0023.0E	0024.0	1.00	28.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0028.0E	0028.0	1.00	25.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0029.0E	0031.0	3.00	95.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0029.0E	0031.0	2.00	120.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0051.0E	0052.0	5.00	670.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0051.0E	0052.0	3.00	660.0			QL=4 ST=2 TYP=6
	200	HIRA	46 C	0051.5	0051.7	2.1	240.0			0
	410	LEAR	8 S	0052.0E	0052.0	U	30.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0201.0E	0202.0	2.00	170.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0201.0E	0202.0	2.00	140.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0201.3	0202.0	2.0	920.0			
	200	HIRA	41 F	0201.7	0201.7	2.4	1200.0			0
	245	PALE	8 S	0223.0E	0224.0	2.00	35.0			QL=4 ST=2 TYP=3
410	PALE	8 S	0223.0E	0224.0	1.00	60.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0224.0E	0224.0	U	33.0			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

DECEMBER 1990

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	410 LEAR	8 S	0224.0E	0224.0	U		51.0		QL=2 ST=2 TYP=3
	200 HIRA	41 F	0300.0	0303.0	5.3		140.0		0
	2840 PEKG	5 S	0358.0	0358.6	2.0		13.1		
	245 LEAR	8 S	0420.0E	0420.0	1.00		110.0		QL=4 ST=2 TYP=3
	2840 PEKG	1 S	0420.0	0421.0	3.0		3.9		
	2840 PEKG	1 S	0443.0	0443.1	2.0		3.1		
	2840 PEKG	1 S	0448.0	0450.0	8.0		4.6		
	2840 PEKG	1 S	0512.0	0513.0	5.0		9.0		
	245 LEAR	8 S	0520.0E	0520.0	1.00		380.0		QL=4 ST=2 TYP=3
	200 GORK	46 C	0550.6	0605.9			420.0		
	200 GORK	46 C	0559.6	0604.1	16.4		420.0		
	100 GORK	46 C	0600.6	0606.0			340.0		
	100 GORK	46 C	0600.6	0600.8	8.1		30.00		
	200 HIRA	41 F	0603.3	0604.2	5.3		390.0		0
	245 LEAR	8 S	0604.0E	0605.0	2.00		100.0		QL=4 ST=2 TYP=3
	610 LEAR	4 S/F	0610.0E	0613.0	4.00		240.0		QL=4 ST=2 TYP=5
	2950 GORK	23 GRF	0616.9	0754.1	279.4		33.0		
	9100 GORK	23 GRF	0645.0U	0812.0	285.00		35.0		
	2840 PEKG	45 C	0653.0	0656.7	20.0		35.9		
	5900 KISV	23 GRF	0653.5	0654.2	15.3		15.0		
	2850 CRIM	45 C	0653.6	0655.6	5.0		21.0	10.0	
	2850 CRIM	45 C	0653.6	0656.9			31.0		
	2950 GORK	46 C	0653.8	0654.2	5.6		19.0		
	2950 GORK	46 C	0653.8	0656.9			25.0		
	9300 KISV	45 C	0654.3	0655.5			13.0		
	9300 KISV	45 C	0654.3	0656.8	5.2		28.0		
	5900 KISV	46 C	0654.5	0657.5			19.0		
	5900 KISV	46 C	0654.5	0655.6			18.0		
	5900 KISV	46 C	0654.5	0656.8	8.0		30.0		
	9100 GORK	2 S/F	0654.8	0656.8	4.5		26.0		
	100 GORK	41 F	0711.0	0726.0			460.0		
	245 LEAR	49 GB	0711.0E	0711.0	1.00		1500.0		QL=4 ST=2 TYP=6
	100 GORK	41 F	0711.0	0712.8	15.6		4600.0		
	200 GORK	41 F	0711.2	0725.1			25.00		
	200 GORK	41 F	0711.2	0711.6	23.3		8200.0		
	113 POTS	41 F	0711.3	0712.7	1.9		250.0		
	234 POTS	4 S/F	0711.3	0711.7	0.8		900.0		
	204 IZMI	45 C	0711.5	0713.0	1.5		50000.0		
	650 GORK	2 S/F	0711.6	0711.7	3.1		4.0		
	410 LEAR	8 S	0712.0E	0712.0	1.00		32.0		QL=4 ST=2 TYP=3
	40 POTS	8 S	0712.6	0712.8	1.1		5200.0		
	5900 KISV	23 GRF	0720.5	0730.7	82.1		20.0		
	9300 KISV	23 GRF	0723.3	0730.7	78.5		20.0		
	234 POTS	4 S/F	0724.8	0725.1	0.6		275.0		
	245 LEAR	8 S	0725.0E	0725.0	U		110.0		QL=4 ST=2 TYP=3
	113 POTS	4 S/F	0725.4	0726.1	1.2		120.0		
	40 POTS	4 S/F	0725.6	0725.6	1.1		100.0		
	15000 KISV	22 GRF	0728.0	0743.0			67.0		
	15000 KISV	22 GRF	0728.0	0752.7	65.3		71.0		
	950 GORK	21 GRF	0730.5	0751.0	25.7U		4.0		
650 GORK	21 GRF	0730.6	0746.8	53.4		5.0			
204 IZMI	42 SER	0733.0	0744.0	30.0		450.0			
650 GORK	46 C	0739.4	0742.0	7.4		9.0			
650 GORK	46 C	0739.4	0744.3			15.0			
1415 LEAR	4 S/F	0740.0E	0744.0	11.00		73.0		QL=4 ST=2 TYP=3	
9300 KISV	4 S/F	0740.5	0743.1	10.0		108.0			
200 GORK	46 C	0740.5	0745.3			470.0			
9300 KISV	29 PBI	0740.5	0750.5	20.8		52.0			
200 GORK	46 C	0740.5	0741.6	5.5		140.0			
5900 KISV	4 S/F	0740.5	0743.8	10.0		106.0			
100 GORK	46 C	0740.6	0742.0			110.0			
100 GORK	46 C	0740.6	0741.8	5.1		110.0			
950 GORK	4 S/F	0740.7	0744.5	10.3		23.0			
9100 GORK	46 C	0740.9	0755.0			45.0			
9100 GORK	46 C	0740.9	0743.8	28.1		90.0			
245 LEAR	8 S	0741.0E	0741.0	1.00		61.0		QL=4 ST=2 TYP=3	
2695 LEAR	4 S/F	0741.0E	0744.0	10.00		120.0		QL=4 ST=2 TYP=3	
4995 LEAR	4 S/F	0741.0E	0743.0	10.00		120.0		QL=4 ST=2 TYP=3	
15400 LEAR	20 GRF	0741.0E	0755.0	22.00		65.0		QL=4 ST=2 TYP=2	

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

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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	8800	LEAR	4 S/F	0741.0E	0743.0	22.00	87.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0741.0	0744.3	12.5	120.0			
	3013	IZMI	5 S	0741.0	0749.6		48.0	35.0		
	2850	CRIM	3 S	0741.2	0744.2	11.0	146.0	49.0		
	100	GORK	47 GB	0746.7	0757.4		20000.0			
	100	GORK	47 GB	0746.7	0755.4		15500.0			
	100	GORK	47 GB	0746.7	0751.9	11.9	11500.0			
	113	POTS	45 C	0749.5	0000.0U	11.0U	3000.00			
	127	TORN	47 GB	0749.6	0751.0U	4.6	12500.00	3900.0		
	200	GORK	46 C	0749.7	0750.2	0.9	130.0			
	200	GORK	46 C	0749.7	0750.4		100.0			
	650	GORK	4 S/F	0749.8	0750.1	1.2	40.0			
	5900	KISV	29 PBI	0750.5E	0750.5	20.80	27.0			
	40	POTS	45 C	0753.7	0756.2	19.0U	68000.0			
	9300	KISV	2 S/F	0815.5	0816.7	3.2	13.0			
	5900	KISV	2 S/F	0816.2	0816.8	2.1	8.0			
	9100	GORK	1 S	0816.2	0816.9	1.8	10.0			
	950	GORK	1 S	0816.6	0816.8	0.7	2.0			
	204	IZMI	45 C	0829.0	0830.0	2.0	50000.0			
	245	LEAR	8 S	0829.0E	0829.0		470.0			
	200	GORK	47 GB	0829.2	0829.5	1.0	26300.0			
	100	GORK	46 C	0829.3	0829.5	0.7	2300.0			
	100	GORK	46 C	0829.3	0829.7		1800.0			
	234	POTS	4 S/F	0829.4	0829.6	1.3	11000.0			
	113	POTS	4 S/F	0829.5	0829.6	1.0	500.0			
	410	LEAR	8 S	0830.0E	0830.0	2.00	220.0			
	610	LEAR	8 S	0830.0E	0830.0	1.00	75.0			
	600	HUMN	2 S/F	0830.6	0831.0	1.5	56.0	21.0		
	600	HUMN	41 F	0902.5	0905.0	3.5	40.0			
	410	LEAR	8 S	0903.0E	0903.0	2.00	190.0			
	9300	KISV	1 S	0908.3	0908.8	2.1	16.0			
	5900	KISV	1 S	0908.4	0908.8	3.0	9.0			
	9100	GORK	1 S	0908.5	0908.9	1.2	15.0			
	245	LEAR	8 S	0911.0E	0912.0	1.00	71.0			
	234	POTS	4 S/F	0911.6	0911.8	0.9	275.0			
	100	GORK	3 S	0912.0	0912.1	0.4	110.0			
	650	GORK	2 S/F	0912.0	0912.2	4.3	5.0			
	200	GORK	46 C	0912.0	0912.2	0.6	240.0			
	200	GORK	46 C	0912.0	0912.4		80.0			
	204	IZMI	5 S	0912.0	0912.5	1.0	5000.0	300.0		
	950	GORK	21 GRF	0919.6	0948.0	43.1	4.0			
	650	GORK	21 GRF	0928.3U	0957.5	48.10	2.0			
	950	GORK	3 S	0937.4	0937.8	0.5	13.0			
	100	GORK	41 F	0942.5	0955.1		680.0			
	100	GORK	41 F	0942.5	0944.4	13.6	30.00			
200	GORK	41 F	0942.7	0944.4	13.9	1700.0				
200	GORK	41 F	0942.7	0954.7		830.0				
610	LEAR	8 S	0943.0E	0944.0	2.00	490.0				
40	POTS	42 SER	0943.5	0954.9	13.0	70000.00				
2950	GORK	2 S/F	0943.8	0945.2	1.8	10.0				
234	POTS	42 SER	0943.8	0953.9	14.0	1000.0				
650	GORK	4 S/F	0943.9	0944.7	2.1	440.0				
2850	CRIM	1 S	0944.0	0945.0	1.3	10.0	3.0			
9100	GORK	1 S	0944.0	0945.0	1.8	12.0				
245	LEAR	8 S	0944.0E	0944.0		150.0				
9500	POTS	4 S/F	0944.0	0945.0	2.0	15.0U				
950	GORK	4 S/F	0944.0	0944.4	2.0	140.0				
3013	IZMI	5 S	0944.0	0944.5	2.0	8.0	4.0			
204	IZMI	42 SER	0944.0	0944.5	13.5	18000.0				
3000	POTS	4 S/F	0944.0	0944.7	2.0	12.0U				
9300	KISV	2 S/F	0944.1	0944.5	1.7	13.0				
5900	KISV	2 S/F	0944.1	0944.5	1.8	14.0				
600	HUMN	2 S/F	0944.1	0944.7	2.1	279.0	136.0			
113	POTS	42 SER	0944.2	0955.0	13.3	200.0				
650	GORK	4 S/F	0950.7	0955.0	6.8	100.0				
950	GORK	4 S/F	0952.6	0954.6	4.9	105.0				
610	LEAR	4 S/F	0953.0E	0954.0	3.00	62.0				
245	LEAR	4 S/F	0953.0E	0954.0	3.00	200.0				
260	ONDR	49 GB	0953.1	0955.4	14.4	170.0				

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

DECEMBER 1990

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	9100 GORK	2 S/F	0953.4	0955.0	3.6	27.0			
	5900 KISV	4 S/F	0953.4	0955.0	6.8	41.0			
	2950 GORK	4 S/F	0953.5	0955.0	4.2	26.0			
	808 ONDR	49 GB	0953.5	0954.4	14.4	293.0			
	536 ONDR	49 GB	0953.5	0955.5	4.2	79.0			
	9300 KISV	4 S/F	0953.9	0955.0	4.5	33.0			
	2850 CRIM	7 C	0953.9	0954.1	4.0	14.0	9.0		
	2850 CRIM	7 C	0953.9	0954.9		28.0			
	1415 LEAR	8 S	0954.0E	0954.0	1.00	23.0			QL=4 ST=2 TYP=3
	9500 POTS	4 S/F	0954.0	0955.0	3.0	29.0U			
	127 TORH	4 S/F	0954.0	0955.0	2.8	2400.0	200.0		
	3000 POTS	4 S/F	0954.0	0955.3	4.0	27.0U			
	600 HUMN	2 S/F	0954.4	0955.2	5.6	45.0	11.0		
	950 GORK	2 S/F	1001.1	1001.2	1.4	4.0			
	650 GORK	2 S/F	1001.2	1002.2	1.3	6.0			
	9300 KISV	2 S/F	1052.1	1053.2	1.6	10.0			
	5900 KISV	2 S/F	1052.4	1053.2	2.7	8.0			
	40 POTS	4 S/F	1142.5	1142.8	1.7	750.0			
	234 POTS	42 SER	1142.6	1201.2	32.9	900.0			
	113 POTS	42 SER	1142.6	1155.6	32.9	100.0			
	260 ONDR	49 GB	1142.6	1201.8	33.7	283.0			
	600 HUMN	2 S/F	1142.6	1142.9	2.2	7.0	4.0		
	3000 POTS	4 S/F	1142.7	1143.0	1.8	8.0U			
	204 IZMI	42 SER	1143.0	1143.4	13.5	6500.0			
	9400 HUAN	1 S	1250.0	1252.3	3.6	14.3	5.6		
	3000 POTS	4 S/F	1251.0	1251.8	2.0	10.0U			
	245 SGMR	8 S	1326.0E	1328.0	2.00	77.0			QL=4 ST=3 TYP=3
	234 POTS	4 S/F	1327.2	1329.4	2.5	190000.0			
	113 POTS	4 S/F	1327.8	1329.2	2.2	3900.0			
	245 SGMR	49 GB	1328.0E	1329.0	1.00	3000.0			QL=4 ST=2 TYP=6
	8800 SGMR	8 S	1328.0E	1328.0	U	42.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	1328.0E	1328.0	U	440.0			QL=4 ST=2 TYP=3
	245 SVTO	49 GB	1328.0E	1329.0	1.00	2500.0			QL=4 ST=2 TYP=6
	40 POTS	4 S/F	1328.1	1329.2	1.9	6500.0			
	234 POTS	41 F	1357.3	1401.6	5.3	350.0			
	245 SGMR	8 S	1401.0E	1401.0	1.00	260.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1401.0E	1401.0	1.00	270.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	1515.0E	1515.0	1.00	54.0			QL=4 ST=2 TYP=3
	1415 SGMR	8 S	1519.0E	1519.0	U	25.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	1519.0E	1520.0	1.00	23.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	1519.0E	1519.0	1.00	190.0			QL=4 ST=2 TYP=3
	2695 SGMR	8 S	1519.0E	1519.0	U	24.0			QL=4 ST=2 TYP=3
	2800 OTTA	3 S	1519.4	1519.9	2.6	20.2	4.0		
	2800 OTTA	3 S	1754.1	1756.1	5.3	10.6	2.0		
	9400 HUAN	2 S/F	1925.2	1926.7	11.0	4.8	2.2		
9400 HUAN	1 S	2200.0	2202.0	6.1	13.3	5.2			
245 LEAR	8 S	2201.0E	2201.0	U	340.0			QL=4 ST=2 TYP=3	
245 PALE	8 S	2201.0E	2201.0	1.00	490.0			QL=4 ST=2 TYP=3	
100 HIRA	46 C	2201.3	2201.6	1.3	740.0				
200 HIRA	46 C	2230.2	2231.0	2.9	90.0			0	
200 HIRA	42 SER	2305.9	2308.6	7.3	160.0			0	
245 PALE	8 S	2312.0E	2312.0	1.00	55.0			QL=4 ST=2 TYP=3	
11	235 CUBA	44 NS	1836.0E		152.00		13.0		
	280 CUBA	44 NS	1836.0E		152.00		25.0		
	245 PALE	4 S/F	0142.0E	0144.0	4.00	350.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0143.0E	0144.0	1.00	310.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0151.0E	0152.0	1.00	52.0			QL=4 ST=2 TYP=3
	200 HIRA	42 SER	0223.8	0229.0	10.1	930.0			0
	245 LEAR	8 S	0229.0E	0229.0	U	390.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0229.0E	0229.0	U	420.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0233.0E	0233.0	1.00	120.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0233.0E	0233.0	1.00	86.0			QL=4 ST=2 TYP=3
	2840 PEKG	20 GRF	0258.0	0258.4	10.0	3.6			
	245 LEAR	4 S/F	0307.0E	0308.0	3.00	110.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0308.0E	0309.0	1.00	100.0			QL=2 ST=2 TYP=3
	2840 PEKG	1 S	0308.0	0309.0	7.0	4.4			
	410 PALE	8 S	0324.0E	0324.0	2.00	76.0			QL=4 ST=2 TYP=3
410 LEAR	8 S	0340.0E	0340.0	1.00	280.0			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
11	2840	PEKG	3 S	0346.0	0351.0	10.0	8.7			
	245	LEAR	8 S	0410.0E	0411.0	1.0D	450.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0410.0	0411.5	4.0	3.6			
	200	HIRA	45 C	0410.3	0410.9	1.3	640.0			0
	2840	PEKG	5 S	0502.0	0504.7	6.0	18.8			
	245	LEAR	8 S	0519.0E	0519.0	1.0D	180.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0536.0E	0536.0	1.0D	300.0			QL=4 ST=2 TYP=3
	5900	KISV	4 S/F	0707.6	0708.6	9.2	23.0			
	2950	GORK	1 S	0707.8	0709.3	2.0	6.0			
	9100	GORK	1 S	0707.8	0708.6	2.4	15.0			
	9300	KISV	2 S/F	0707.8	0708.6	6.0	19.0			
	2840	PEKG	1 S	0708.0	0708.5	4.0	9.4			
	3013	IZMI	5 S	0708.0	0708.6	6.0	8.0	4.0		
	410	LEAR	49 GB	0719.0E	0719.0	U	910.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0719.0E	0719.0	U	90.0			QL=4 ST=3 TYP=3
	204	IZMI	41 F	0721.0	0722.5	2.5	150.0			
	200	GORK	41 F	0721.3	0722.3	27.2	40.0			
	200	GORK	41 F	0721.3	0747.6		2900.0			
	200	GORK	41 F	0721.5	0722.4	27.2	500.0			
	100	GORK	41 F	0721.5	0747.6		2800.0			
	2840	PEKG	1 S	0726.0	0727.7	5.0	8.7			
	5900	KISV	2 S/F	0726.4	0727.3	3.1	17.0			
	9300	KISV	2 S/F	0726.5	0727.4	3.3	9.0			
	2950	GORK	1 S	0726.7	0727.4	2.6	6.0			
	9100	GORK	2 S/F	0739.0	0740.4	2.2	22.0			
	5900	KISV	2 S/F	0739.3	0740.3	2.7	11.0			
	9300	KISV	2 S/F	0739.3	0740.4	3.0	23.0			
	15000	KISV	2 S/F	0740.1	0740.4	1.6	12.0			
	234	POTS	4 S/F	0745.9	0747.7	2.8	7700.0			
	245	LEAR	8 S	0746.0E	0747.0	2.0D	490.0			QL=4 ST=2 TYP=3
	40	POTS	4 S/F	0746.7	0747.4	3.3	15000.0U			
	113	POTS	4 S/F	0746.7	0747.6	2.3	250.0			
	204	IZMI	5 S	0746.8	0747.0	1.5	9000.0	4500.0		
	245	SVTO	49 GB	0747.0E	0747.0	1.0D	540.0			QL=4 ST=2 TYP=6
	650	GORK	1 S	0747.1	0747.7	1.8	3.0			
	950	GORK	1 S	0747.1	0747.7	1.8	6.0			
	2950	GORK	1 S	0807.0	0808.0	3.0	4.0			
	950	GORK	1 S	0807.5	0808.0	3.7	4.0			
	650	GORK	1 S	0807.5	0807.9	2.7	2.0			
	245	LEAR	8 S	0815.0E	0815.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0815.0E	0815.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0901.0E	0901.0	U	340.0			QL=4 ST=2 TYP=3
	234	POTS	4 S/F	0901.0	0901.0	0.8	650.0			
	204	IZMI	41 F	0901.0	0901.4	2.0	700.0			
	40	POTS	4 S/F	0901.1	0901.2	1.3	600.0			
	5900	KISV	2 S/F	1008.9	1009.2	1.3	7.0			
	9300	KISV	2 S/F	1008.9	1009.2	1.4	8.0			
	260	ONDR	40 F	1040.0	1132.1	92.0	71.0			
	204	IZMI	5 S	1043.0	1043.2	0.3	130.0	70.0		
	127	TORN	7 C	1100.1	1100.5	1.0	20.0	4.0		
	9100	GORK	45 C	1125.5	1132.1		26.0			
	9100	GORK	45 C	1125.5	1130.4	10.5D	26.0			
	808	ONDR	4 S/F	1126.0	1132.7	7.5	22.0			
	234	POTS	41 F	1126.2U	1131.7	7.8U	300.0			
	3013	IZMI	7 C	1126.5	1130.3	12.0	63.0	30.0		
	5900	KISV	45 C	1126.8	1132.2		49.0			
	5900	KISV	45 C	1126.8	1130.4	12.8	52.0			
	3000	POTS	4 S/F	1127.0	1130.0	14.5	76.0U			
	2850	CRIM	29 PBI	1127.6	1133.0	32.0	44.0	11.0		
	2850	CRIM	45 C	1127.6	1132.2		53.0			
	2850	CRIM	45 C	1127.6	1130.6	3.4	60.0	20.0		
	2695	SVTO	4 S/F	1128.0E	1130.0	7.0D	91.0			QL=4 ST=3 TYP=3
	9500	POTS	40 F	1128.0	1130.5	9.5	20.0U			
	2950	GORK	46 C	1128.2	1132.2		67.0			
	9300	KISV	45 C	1128.2	1132.3		23.0			
	9300	KISV	45 C	1128.2	1130.4	11.8	29.0			
	2950	GORK	46 C	1128.2	1130.5	7.8	77.0			
	600	HUMN	1 S	1129.0	1133.0	9.0	12.0	5.0		
	204	IZMI	41 F	1129.0	1132.0	4.0	280.0			

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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			
11	4995	SVTO	4 S/F	1129.0E	1132.0	7.0D	61.0			QL=4 ST=3 TYP=3	
	1415	SVTO	4 S/F	1129.0E	1132.0	4.0D	65.0			QL=4 ST=3 TYP=3	
	8800	SVTO	4 S/F	1129.0E	1130.0	751.0D	27.0			QL=4 ST=1 TYP=3	
	950	GORK	4 S/F	1129.0	1132.4	5.0U	25.0				
	650	GORK	3 S	1129.5	1132.6	4.5U	18.0				
	536	ONDR	4 S/F	1130.0	1132.7	4.6	22.0				
	200	GORK	4 S/F	1130.1	1132.7	3.1	45.0				
	40	POTS	4 S/F	1130.5	1132.1	2.7	11000.0U				
	245	SVTO	8 S	1131.0E	1132.0	1.0D	130.0				QL=4 ST=3 TYP=3
	100	GORK	4 S/F	1131.2	1132.7	1.8	20.0				
	3013	IZMI	5 S	1148.5	1155.0	11.0	46.0	23.0			
	245	PALE	8 S	1823.0E	1823.0	1.0D	130.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1823.0E	1823.0	1.0D	140.0				QL=4 ST=2 TYP=3
	9400	HUAN	23 GRF	2023.0	2111.0	86.3	23.6	12.4			
	6700	CUBA	46 C	2044.1	2049.9	7.9	42.0	17.0			
	15000	CUBA	46 C	2046.0	2049.7	10.0	117.0				6R
	9400	HUAN	4 S/F	2046.8	2049.7	8.5	36.2	26.8			
	15400	PALE	4 S/F	2047.0E	2049.0	7.0D	130.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	2049.0E	2049.0	1.0D	39.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	2049.0E	2049.0	U	28.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	2049.0E	2050.0	1.0D	27.0				QL=4 ST=2 TYP=3
	6700	CUBA	30 PBI	2052.0		64.0D	11.0	5.0			2156 OFF
	15000	CUBA	29 PBI	2056.0		7.0	15.0	7.0			24R
	6700	CUBA	2 S/F	2104.6	2106.3	4.4	33.0	15.0			
	9400	HUAN	3 S	2104.7	2106.1	4.6	36.5	17.4			
	245	PALE	8 S	2131.0E	2131.0	1.0D	150.0				QL=4 ST=2 TYP=3
	500	HIRA	46 C	2303.8	2304.4	2.1	52.0				0
245	LEAR	8 S	2322.0E	2323.0	1.0D	57.0				QL=4 ST=2 TYP=3	
12	127	TORN	43 NS	0720.0		330.0		5.0		V=0	
	280	CUBA	44 NS	1335.0E		445.0D		34.0			
	235	CUBA	44 NS	1335.0E		445.0D		18.0			
	410	PALE	44 NS	2125.0E	2154.0	149.0D	71.0				QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2138.0E	0503.0	580.0D	30.0	9.0			MR
	245	PALE	44 NS	2159.0E	2221.0	115.0D	82.0				QL=4 ST=2 TYP=1
	245	LEAR	8 S	0000.0E	0001.0	1.0D	68.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0002.0E	0003.0	2.0D	51.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0050.0	0051.1	3.0	8.1				
	2840	PEKG	1 S	0144.0	0146.2	5.0	8.8				
	4995	LEAR	4 S/F	0257.0E	0258.0	3.0D	77.0				QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0257.0E	0258.0	2.0D	40.0				QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0257.0E	0258.0	2.0D	30.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0257.0E	0257.0	1.0D	130.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0257.0E	0257.0	1.0D	110.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0257.0	0258.5	5.0	40.1				
	15400	LEAR	8 S	0258.0E	0258.0	U	16.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0315.0	0318.0	5.0	6.6				
	8800	LEAR	4 S/F	0325.0E	0326.0	3.0D	120.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0325.0E	0326.0	3.0D	270.0				QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0326.0E	0327.0	1.0D	30.0				QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0326.0E	0327.0	2.0D	97.0				QL=4 ST=2 TYP=3
	15400	PALE	8 S	0326.0E	0327.0	1.0D	120.0				QL=2 ST=2 TYP=3
	2840	PEKG	5 S	0326.0	0327.2	6.0	42.2				
	2840	PEKG	45 C	0335.0	0342.3	20.0	51.0				
	8800	LEAR	4 S/F	0336.0E	0342.0	9.0D	100.0				QL=4 ST=2 TYP=5
	15400	LEAR	4 S/F	0336.0E	0342.0	9.0D	61.0				QL=4 ST=2 TYP=5
	4995	LEAR	4 S/F	0336.0E	0342.0	9.0D	92.0				QL=4 ST=2 TYP=5
	2695	LEAR	4 S/F	0337.0E	0342.0	8.0D	45.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0339.0E	0340.0	3.0D	170.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0341.0E	0342.0	1.0D	300.0				QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0342.0E	0342.0	3.0D	27.0				QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0342.0E	0342.0	3.0D	150.0				QL=4 ST=2 TYP=3
	5900	KISV	23 GRF	0622.9	0703.2	73.1	19.0				
9300	KISV	23 GRF	0623.4	0700.7	71.4	25.0					
9300	KISV	23 GRF	0623.4	0715.8		22.0					
5900	KISV	45 C	0624.2	0624.6	5.8	12.0					
5900	KISV	45 C	0624.2	0625.7		9.0					
9300	KISV	45 C	0624.3	0624.6	5.8	30.0					
9300	KISV	45 C	0624.3	0625.7		23.0					

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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	
12	5900	KISV	45 C	0631.9	0633.0		4.0				
	5900	KISV	45 C	0631.9	0635.6	7.0	8.0				
	5900	KISV	2 S/F	0648.1	0649.7	6.1	6.0				
	2950	GORK	23 GRF	0650.0U	0802.9	188.00	39.0				
	9100	GORK	23 GRF	0658.6	0815.0	184.4	26.0				
		200	GORK	4 S/F	0713.5	0714.9	2.5	20.0			
		100	GORK	4 S/F	0714.5	0715.1	2.5	350.0			
		127	TORN	8 S	0714.8	0715.2	0.8	110.00	50.0		
		245	LEAR	8 S	0729.0E	0730.0	1.00	66.0			QL=4 ST=2 TYP=3
		245	SVTO	8 S	0729.0E	0730.0	1.00	67.0			QL=4 ST=2 TYP=3
		2850	CRIM	3 S	0741.0	0744.2	6.0	34.6	11.0		
		5900	KISV	23 GRF	0741.5	0744.1	147.9	38.0			
		9300	KISV	23 GRF	0741.6	0743.0		18.0			
		9300	KISV	23 GRF	0741.6	0817.8	75.1	26.0			
		3013	IZMI	5 S	0742.5	0744.0	3.5	11.0	5.0		
		2950	GORK	4 S/F	0742.7	0744.3	4.6	26.0			
		950	GORK	1 S	0743.2	0744.5	3.7	4.0			
		410	LEAR	49 GB	0751.0E	0751.0	1.00	510.0			QL=4 ST=2 TYP=6
		5900	KISV	4 S/F	0756.6	0802.3	8.3	46.0			
		2950	GORK	4 S/F	0756.7	0757.5	2.9	70.0			
		2850	CRIM	40 F	0756.8	0757.5	1.8	125.5			
		2695	LEAR	4 S/F	0757.0E	0758.0	6.00	37.0			QL=4 ST=2 TYP=3
		2695	SVTO	4 S/F	0757.0E	0757.0	7.00	47.0			QL=4 ST=2 TYP=3
		15400	LEAR	4 S/F	0757.0E	0802.0	10.00	35.0			QL=4 ST=2 TYP=5
		204	IZMI	45 C	0757.0	0757.6	10.0	44.0	25.0		
		410	LEAR	49 GB	0758.0E	0759.0	1.00	780.0			QL=4 ST=2 TYP=6
		610	LEAR	8 S	0758.0E	0758.0	2.00	41.0			QL=4 ST=2 TYP=3
		410	SVTO	8 S	0758.0E	0759.0	1.00	270.0			QL=4 ST=2 TYP=3
		15000	KISV	45 C	0759.0	0800.0		13.0			
		4995	LEAR	4 S/F	0759.0E	0802.0	4.00	38.0			QL=4 ST=2 TYP=3
		8800	LEAR	4 S/F	0759.0E	0802.0	4.00	36.0			QL=4 ST=2 TYP=3
		4995	SVTO	4 S/F	0759.0E	0802.0	4.00	45.0			QL=4 ST=2 TYP=3
		8800	SVTO	4 S/F	0759.0E	0802.0	4.00	42.0			QL=4 ST=2 TYP=3
		15000	KISV	45 C	0759.0	0802.1	4.9	16.0			
		9100	GORK	2 S/F	0759.1	0802.3	5.7	30.0			
		9300	KISV	4 S/F	0759.3	0802.2	5.6	38.0			
		15400	SVTO	8 S	0800.0E	0802.0	2.00	24.0			QL=4 ST=2 TYP=3
		113	POTS	8 S	0842.8	0843.2	0.9	950.0			
		5900	KISV	2 S/F	0843.9	0845.0	3.6	7.0			
		9300	KISV	2 S/F	0904.7	0906.7	3.6	7.0			
		5900	KISV	2 S/F	0905.3	0906.5	3.0	4.0			
		127	TORN	46 C	0918.3	0919.4	2.2	750.0	130.0		
		410	LEAR	8 S	0944.0E	0944.0	1.00	430.0			QL=4 ST=2 TYP=3
		260	ONDR	40 F	1000.0	1133.4	190.0	31.0			
		5900	KISV	22 GRF	1101.6	1106.8	14.6	11.0			
		9300	KISV	2 S/F	1105.4	1106.8	3.6	7.0			
		33	UPIC	4 S/F	1133.0	1133.8	1.4				
		113	POTS	4 S/F	1216.1	1216.8	1.5	250.0			
		40	POTS	4 S/F	1216.3	1216.9	1.8	750.0			
		245	SGMR	8 S	1341.0E	1341.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1341.0E	1341.0	U	63.0			QL=4 ST=2 TYP=3	
	9400	HUAN	20 GRF	1413.0	1429.0	42.9	8.8	3.6			
	245	SGMR	8 S	1415.0E	1415.0	2.00	410.0			QL=4 ST=2 TYP=3	
	9400	HUAN	2 S/F	1519.3	1521.2	14.6	11.0	4.8			
	245	SGMR	8 S	1542.0E	1542.0	U	54.0			QL=4 ST=2 TYP=3	
	9400	HUAN	1 S	1629.8	1632.1	4.5	6.6	3.2			
	9400	HUAN	1 S	1647.2	1649.1	8.4	11.0	5.2			
	9400	HUAN	1 S	1731.0	1733.4	5.6	6.6	3.0			
	245	SGMR	8 S	1812.0E	1812.0	U	53.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2010.0E	2010.0	U	70.0			QL=4 ST=2 TYP=3	
	2800	OTTA	3 S	2016.0	2018.3	6.3	17.1	4.0			
	245	PALE	8 S	2102.0E	2102.0	1.00	120.0			QL=4 ST=2 TYP=3	
	2695	PENT	4 S/F	2138.3	2144.4	9.2	27.7	6.0			
	200	HIRA	41 F	2211.2	2220.9	16.5	135.0			O	
	245	LEAR	8 S	2221.0E	2221.0	1.00	90.0			QL=4 ST=2 TYP=3	
	500	HIRA	46 C	2223.8	2224.3	3.0	90.0			MR	
	100	HIRA	8 S	2224.0	2224.0	1.0	1300.0			O	
	610	LEAR	8 S	2224.0E	2224.0	U	80.0			QL=4 ST=2 TYP=3	
	410	LEAR	8 S	2224.0E	2224.0	U	310.0			QL=4 ST=2 TYP=3	

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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			
12	610	PALE	8 S	2224.0E	2224.0		84.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	2224.0E	2224.0		410.0			QL=2 ST=2 TYP=3	
	245	PALE	49 GB	2224.0E	2224.0	1.0D	800.0			QL=2 ST=2 TYP=6	
	500	HIRA	27 RF	2229.0	2247.0	45.0	18.0	6.0		WR	
13	245	LEAR	44 NS	0511.0E	1003.0	332.0D	450.0			QL=4 ST=2 TYP=1	
	200	GORK	44 NS	0557.0E		332.0D		5.0			
	204	IZMI	43 NS	0700.0		300.0	20.0				
	127	TORN	44 NS	0700.0E	0746.2	90.0D	540.0	15.0		V=1	
	234	POTS	44 NS	0710.0E	1327.5	419.0D	275.0				
	113	POTS	44 NS	0730.0E	1320.0	398.0D	100.0				
	600	HUMN	44 NS	0800.0E	1212.0	420.0D					
	245	SVTO	44 NS	0908.0E	1129.0	324.0D	290.0				QL=4 ST=2 TYP=1
	260	ONDR	44 NS	1000.0E	1003.7	190.0D	323.0				
	536	ONDR	44 NS	1000.0E	1025.7	190.0D	125.0				
	280	CUBA	44 NS	1254.0E		449.0D		67.0			
	235	CUBA	44 NS	1254.0E		449.0D		62.0			
	245	PALE	44 NS	1719.0E	1741.0	294.0D	200.0				QL=4 ST=2 TYP=1
	500	HIRA	44 NS	2139.0E	2246.0	580.0D	42.0	8.0			WR
	200	HIRA	44 NS	2139.0E	2249.0	580.0D	160.0	39.0			MR
	500	HIRA	46 C	0009.0	0011.3	11.5	14.0	7.0			WR
	245	PALE	8 S	0015.0E	0015.0		70.0				QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0048.0	0210.5	153.0	44.0				MR
	245	LEAR	8 S	0105.0E	0105.0	1.0D	52.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0107.0E	0107.0		41.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0129.0E	0129.0	2.0D	54.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0129.0E	0131.0	4.0D	62.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0129.0E	0129.0	2.0D	53.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0239.0E	0242.0	5.0D	83.0				QL=4 ST=2 TYP=5
	245	PALE	4 S/F	0241.0E	0243.0	3.0D	60.0				QL=4 ST=3 TYP=3
	245	LEAR	4 S/F	0258.0E	0259.0	3.0D	75.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0258.0E	0259.0	2.0D	73.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0309.0E	0309.0		75.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0309.0E	0309.0		56.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0318.0E	0318.0	1.0D	100.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0318.0E	0319.0	1.0D	110.0				QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0322.2	0328.4	10.6	235.0				MR
	500	HIRA	41 F	0400.0	0453.5	130.0	45.0				MR
	245	LEAR	4 S/F	0445.0E	0453.0	9.0D	330.0				QL=4 ST=2 TYP=5
	2840	PEKG	1 S	0446.0	0448.0	3.0	2.9				
	200	HIRA	8 S	0452.1	0452.8	0.8	546.0				WR
	245	LEAR	4 S/F	0501.0E	0502.0	3.0D	61.0				QL=4 ST=2 TYP=3
	650	GORK	23 GRF	0627.0E	1033.6	302.5D	40.0				
	950	GORK	22 GRF	0633.6	0654.6	86.4	5.0				
	200	HIRA	46 C	0644.0	0645.5	7.9	160.0				O
	245	LEAR	8 S	0646.0E	0646.0	1.0D	73.0				QL=4 ST=2 TYP=3
	2950	GORK	22 GRF	0646.0	0746.8	156.2	13.0				
	5900	KISV	2 S/F	0754.8	0755.8	6.5	12.0				
	9300	KISV	2 S/F	0754.8	0755.8	7.5	5.0				
	204	IZMI	41 F	0807.0	0808.0	1.5	280.0				
	204	IZMI	41 F	0852.5	0853.3	4.0	1000.0				
	204	IZMI	42 SER	0914.0	0916.0	13.0	1100.0				
950	GORK	21 GRF	0928.1	1033.0	107.2	45.0					
9100	GORK	23 GRF	0950.3	1039.0	99.7D	40.0					
2850	CRIM	28 PRE	0954.3	1021.5	27.6	87.0		28.0			
3000	POTS	45 C	0955.0	1025.0	185.0	820.0					
9500	POTS	45 C	0955.0	1024.5	185.0	300.0					
2950	GORK	47 GB	0958.9	1025.3	72.2U	420.0					
600	HUMN	3 S	1007.3	1023.7	57.7	90.0		11.0			
9300	KISV	47 GB	1008.5	1024.6	22.1	302.0					
9300	KISV	29 PBI	1008.5	1030.9	76.8	65.0					
950	GORK	4 S/F	1009.9	1024.0	23.1	280.0					
5900	KISV	47 GB	1013.4	1024.8	16.6	457.0					
5900	KISV	29 PBI	1013.4	1030.9	76.9	102.0					
204	IZMI	42 SER	1015.0	1038.0	36.0	2800.0					
9100	GORK	4 S/F	1015.0	1024.6	24.0	270.0					
15000	KISV	29 PBI	1015.8	1027.3	30.2	56.0					
15000	KISV	4 S/F	1015.8	1024.4	11.5	157.0					
410	LEAR	4 S/F	1016.0E	1027.0	16.0D	94.0				QL=4 ST=2 TYP=5	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
13	4995	LEAR	4 S/F	1016.0E	1024.0	20.00	310.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	1016.0E	1042.0	27.00	190.0			QL=2 ST=2 TYP=5
	1415	LEAR	4 S/F	1016.0E	1025.0	27.00	260.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	1016.0E	1025.0	24.00	490.0			QL=4 ST=2 TYP=3
	3013	IZMI	45 C	1016.0	1025.0	40.0	286.0			
	536	ONDR	49 GB	1017.5	1024.5	22.5	125.0			
	610	LEAR	4 S/F	1018.0E	1023.0	16.00	140.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	1018.0	1024.1	15.0	250.0			
	808	ONDR	45 C	1020.5	1024.0	12.5	231.0			
	8800	LEAR	4 S/F	1021.0E	1024.0	8.00	140.0			QL=4 ST=2 TYP=3
	2695	SVTO	49 GB	1021.0E	1025.0	17.00	560.0			QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	1021.0E	1023.0	17.00	220.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1021.0E	1025.0	17.00	310.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1021.0E	1024.0	17.00	450.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1021.0E	1024.0	17.00	270.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1021.0E	1030.0	17.00	97.0			QL=4 ST=3 TYP=3
	2850	CRIM	29 PBI	1021.9	1040.0	90.0	52.0	18.0		
	2850	CRIM	47 GB	1021.9	1025.1	18.0	664.0	221.0		
	15400	SVTO	4 S/F	1022.0E	1024.0	6.00	130.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1023.0E	1037.0	20.00	160.0			QL=2 ST=2 TYP=3
	9300	KISV	8 S	1042.9	1043.0	0.6	32.0			
	15000	KISV	8 S	1042.9	1043.0	0.4	53.0			
	5900	KISV	1 S	1042.9	1043.0	0.4	19.0			
	204	IZMI	42 SER	1135.0	1136.0	25.5	1600.0			
	245	SVTO	49 GB	1147.0E	1147.0	1.00	830.0			QL=2 ST=3 TYP=6
	410	SVTO	49 GB	1147.0E	1148.0	2.00	660.0			QL=2 ST=3 TYP=6
	600	HUMN	2 S/F	1148.0	1148.5	3.0	28.0	10.0		
	245	SVTO	49 GB	1304.0E	1304.0	1.00	510.0			QL=2 ST=3 TYP=6
	245	SGMR	49 GB	1304.0E	1304.0	656.00	580.0			QL=4 ST=3 TYP=6
	4995	SGMR	4 S/F	1614.0E	1615.0	4.00	120.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1614.1	1622.2	12.7	106.9	21.0		
	9500	CUBA	46 C	1614.2	1615.2		30.0			
9500	CUBA	46 C	1614.2	1622.9	14.3	95.0	26.0			
245	SGMR	49 GB	1634.0E	1636.0	3.00	1600.0			QL=4 ST=2 TYP=6	
245	PALE	49 GB	1717.0E	1743.0	27.00	5.0			QL=2 ST=3 TYP=7	
6700	CUBA	21 GRF	1737.0	1751.0	52.0	8.0	4.0			
6700	CUBA	1 S	1740.1	1741.2	2.4	6.0	3.0			
245	PALE	49 GB	1743.0E	1743.0	1.00	500.0			QL=2 ST=3 TYP=6	
245	SGMR	8 S	1743.0E	1743.0	1.00	450.0			QL=4 ST=3 TYP=3	
15000	CUBA	20 GRF	1747.0	1751.0	34.0	16.0	8.0		00L	
4995	PALE	8 S	2052.0E	2052.0	U	55.0			QL=4 ST=2 TYP=3	
14	200	GORK	44 NS	0657.0E		273.00		5.0		
	234	POTS	44 NS	0710.0E	0805.0U	425.00	100.0			
	113	POTS	44 NS	0712.0E	0804.0	423.00	70.0			
	245	SVTO	44 NS	0737.0E	0916.0	124.00	200.0			QL=4 ST=2 TYP=1
	600	HUMN	44 NS	0800.0E		137.00				
	260	ONDR	44 NS	1000.0E	1025.8	190.00	285.0			
	235	CUBA	44 NS	1627.0E		293.00		18.0		
	280	CUBA	44 NS	1627.0E		293.00		24.0		
	200	HIRA	44 NS	2140.0E	0133.0	580.00	80.0	31.0		SR
	100	HIRA	44 NS	2140.0E	0230.0	580.00	180.0	130.0		
	245	LEAR	4 S/F	0012.0E	0015.0	3.00	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0013.0E	0015.0	2.00	170.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0158.0E	0159.0	3.00	47.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0158.0E	0159.0	2.00	34.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0158.0	0159.9	2.0	10.2			
	15400	LEAR	8 S	0159.0E	0159.0	1.00	30.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0159.0E	0159.0	1.00	38.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0159.0E	0159.0	1.00	42.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0200.0E	0200.0	U	130.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0200.0E	0200.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0210.0E	0211.0	2.00	56.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0210.0E	0211.0	3.00	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0215.0E	0216.0	1.00	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0215.0E	0216.0	1.00	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0339.0E	0339.0	U	94.0			QL=4 ST=2 TYP=3
	650	GORK	22 GRF	0633.0E	0826.1	195.0U	9.0			
	5900	KISV	2 S/F	0633.4	0634.7	2.7	7.0			

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

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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	9300 KISV	2 S/F	0633.7	0634.8	2.4	7.0			
	245 LEAR	8 S	0736.0E	0736.0	1.00	79.0		QL=4 ST=2 TYP=3	
	2950 GORK	20 GRF	0752.7	0841.2	88.3	18.0			
	234 POTS	8 S	0752.8	0753.0	0.4	1000.0			
	113 POTS	8 S	0753.1	0753.2	0.2	1700.0			
	950 GORK	20 GRF	0824.5	0837.2	20.8	4.0			
	5900 KISV	2 S/F	0825.1	0826.0	3.3	12.0			
	9300 KISV	2 S/F	0825.1	0826.0	2.5	8.0			
	245 LEAR	8 S	0859.0E	0859.0	U	72.0		QL=4 ST=2 TYP=3	
	950 GORK	1 S	0859.4	0859.5	0.3	6.0			
	410 SVTO	8 S	1019.0E	1019.0	U	69.0		QL=4 ST=2 TYP=3	
	15000 KISV	2 S/F	1028.7	1029.5	1.8	16.0			
	9300 KISV	2 S/F	1029.3	1029.5	1.6	17.0			
	245 SVTO	8 S	1049.0E	1049.0	U	67.0		QL=4 ST=2 TYP=3	
	245 SVTO	8 S	1053.0E	1053.0	U	240.0		QL=4 ST=2 TYP=3	
	410 SVTO	8 S	1053.0E	1053.0	U	94.0		QL=4 ST=2 TYP=3	
	536 ONDR	40 F	1110.0	1124.2	72.0	106.0			
	650 GORK	22 GRF	1118.5	1126.5	13.50	13.0			
	536 ONDR	49 GB	1120.2	1124.2	9.5	106.0			
	600 HUMN	27 RF	1121.0	1126.0	14.0	7.0	3.0		
	410 SVTO	49 GB	1124.0E	1125.0	1.00	700.0		QL=4 ST=2 TYP=6	
	204 IZMI	41 F	1125.0	1126.0	6.0	800.0			
	245 SVTO	49 GB	1125.0E	1125.0	U	640.0		QL=4 ST=2 TYP=6	
	234 POTS	8 S	1125.6	1125.7	0.4	1100.0			
	410 SVTO	8 S	1147.0E	1147.0	1.00	140.0		QL=4 ST=2 TYP=3	
	410 SVTO	49 GB	1218.0E	1219.0	1.00	1600.0		QL=4 ST=2 TYP=6	
	9500 POTS	4 S/F	1218.5	1219.5	2.5	45.0			
	808 ONDR	4 S/F	1219.0	1219.2	2.3	23.0			
	3000 POTS	4 S/F	1219.0U	1220.5U	2.0U	8.0			
	4995 SGMR	8 S	1246.0E	1246.0	U	59.0		QL=4 ST=2 TYP=3	
	4995 SVTO	8 S	1246.0E	1246.0	1.00	69.0		QL=4 ST=2 TYP=3	
	3000 POTS	4 S/F	1246.0	1246.3	1.5	29.0			
	9500 POTS	4 S/F	1246.4	1247.0	1.1	8.0			
	2800 OTTA	3 S	1331.9	1332.7	23.5	300.4	60.0		
	4995 SGMR	8 S	1332.0E	1332.0	2.00	410.0		QL=4 ST=2 TYP=3	
	245 SGMR	49 GB	1332.0E	1335.0	4.00	12000.0		QL=4 ST=2 TYP=6	
	15400 SGMR	49 GB	1332.0E	1332.0	1.00	780.0		QL=4 ST=2 TYP=6	
	8800 SGMR	8 S	1332.0E	1332.0	1.00	430.0		QL=4 ST=2 TYP=3	
	1415 SGMR	49 GB	1332.0E	1332.0	7.00	730.0		QL=4 ST=2 TYP=6	
	410 SGMR	49 GB	1332.0E	1332.0	2.00	3000.0		QL=4 ST=2 TYP=6	
	610 SGMR	49 GB	1332.0E	1332.0	7.00	2100.0		QL=4 ST=2 TYP=6	
	410 SVTO	49 GB	1332.0E	1334.0	2.00	9900.0		QL=4 ST=2 TYP=6	
	2695 SVTO	49 GB	1332.0E	1332.0	9.00	510.0		QL=4 ST=2 TYP=6	
	15400 SVTO	49 GB	1332.0E	1332.0	1.00	690.0		QL=2 ST=2 TYP=6	
	8800 SVTO	8 S	1332.0E	1332.0	1.00	430.0		QL=2 ST=2 TYP=3	
	4995 SVTO	4 S/F	1332.0E	1332.0	3.00	460.0		QL=2 ST=2 TYP=3	
	1415 SVTO	49 GB	1332.0E	1332.0	11.00	860.0		QL=4 ST=2 TYP=6	
	610 SVTO	49 GB	1332.0E	1332.0	11.00	970.0		QL=4 ST=2 TYP=6	
	9500 POTS	45 C	1332.0	1332.5	28.00	560.0			
	3000 POTS	45 C	1332.0	1332.5	28.0	670.0			
245 SVTO	49 GB	1333.0E	1335.0	3.00	9700.0		QL=4 ST=2 TYP=6		
410 SGMR	49 GB	1404.0E	1404.0	1.00	920.0		QL=4 ST=2 TYP=6		
610 SGMR	8 S	1404.0E	1404.0	2.00	120.0		QL=4 ST=2 TYP=3		
410 SVTO	49 GB	1404.0E	1404.0	1.00	1000.0		QL=2 ST=2 TYP=6		
610 SVTO	8 S	1404.0E	1404.0	2.00	76.0		QL=4 ST=2 TYP=3		
245 SVTO	8 S	1404.0E	1405.0	1.00	73.0		QL=2 ST=2 TYP=3		
410 SVTO	8 S	1408.0E	1409.0	1.00	57.0		QL=2 ST=2 TYP=3		
245 SGMR	8 S	1425.0E	1425.0	U	73.0		QL=4 ST=2 TYP=3		
410 SGMR	8 S	1425.0E	1425.0	U	150.0		QL=4 ST=2 TYP=3		
245 SVTO	8 S	1425.0E	1425.0	U	75.0		QL=4 ST=2 TYP=3		
410 SVTO	8 S	1425.0E	1425.0	U	200.0		QL=2 ST=2 TYP=3		
410 SGMR	8 S	1446.0E	1446.0	1.00	420.0		QL=4 ST=2 TYP=3		
610 SGMR	8 S	1446.0E	1446.0	1.00	50.0		QL=4 ST=2 TYP=3		
245 SGMR	49 GB	1446.0E	1446.0	U	1400.0		QL=4 ST=2 TYP=6		
245 SVTO	49 GB	1446.0E	1446.0	U	880.0		QL=2 ST=2 TYP=6		
245 SGMR	49 GB	1449.0E	1449.0	2.00	1000.0		QL=4 ST=2 TYP=6		
245 SVTO	49 GB	1449.0E	1449.0	U	660.0		QL=2 ST=2 TYP=6		
410 SGMR	49 GB	1627.0E	1628.0	2.00	890.0		QL=4 ST=2 TYP=6		
410 SGMR	49 GB	1639.0E	1640.0	2.00	8700.0		QL=4 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		
14	610 SGMR	8 S	1640.0E	1640.0	1.00	340.0			QL=4 ST=2 TYP=3
	9400 HUAN	20 GRF	1714.5	1728.0	22.8	8.1	3.8		
	245 SGMR	8 S	1749.0E	1749.0	2.00	420.0			QL=4 ST=3 TYP=3
	610 SGMR	8 S	1829.0E	1830.0	2.00	33.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1831.0E	1831.0	U	140.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	1948.0E	1948.0	U	480.0			QL=4 ST=2 TYP=3
	410 SGMR	49 GB	1948.0E	1948.0	4.00	1100.0			QL=4 ST=2 TYP=6
	9400 HUAN	2 S/F	2109.5	2113.2	8.0	18.2	8.6		
	15400 LEAR	4 S/F	2215.0E	2217.0	8.00	37.0			QL=4 ST=2 TYP=3
	410 LEAR	49 GB	2215.0E	2216.0	4.00	2000.0			QL=4 ST=2 TYP=6
	500 HIRA	41 F	2215.0	2217.3	4.0	150.0			O
	9400 HUAN	2 S/F	2215.1	2217.6	6.9	20.3	9.4		
	610 LEAR	8 S	2217.0E	2218.0	2.00	120.0			QL=4 ST=2 TYP=3
	8800 LEAR	4 S/F	2217.0E	2218.0	6.00	31.0			QL=4 ST=2 TYP=3
	1415 LEAR	4 S/F	2217.0E	2218.0	4.00	56.0			QL=4 ST=2 TYP=3
	2695 LEAR	8 S	2218.0E	2218.0	U	20.0			QL=4 ST=2 TYP=3
	4995 LEAR	8 S	2218.0E	2218.0	U	25.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	2218.0E	2220.0	2.00	15.0			QL=4 ST=2 TYP=5
	100 HIRA	8 S	2218.4	2218.5	0.9	410.0			
	500 HIRA	8 S	2309.0	2309.4	0.6	15.0			WR
	100 HIRA	8 S	2318.8	2319.8	1.1	360.0			
	610 LEAR	8 S	2354.0E	2355.0	2.00	88.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	2355.0E	2356.0	1.00	220.0			QL=4 ST=2 TYP=3
	500 HIRA	46 C	2355.5	2355.7	1.0	194.0			O
	245 LEAR	8 S	2356.0E	2356.0	1.00	20.0			QL=4 ST=2 TYP=3
	15	245 LEAR	43 NS	0110.0	0123.0	502.0	290.0			QL=4 ST=2 TYP=1
200 GORK		44 NS	0554.0E		336.00		5.0		
245 SVTO		44 NS	0646.0E	1412.0	492.00	120.0			QL=4 ST=2 TYP=1
204 IZMI		43 NS	0700.0		300.0	50.0			
234 POTS		44 NS	0712.0E	0000.0U	U	U			
113 POTS		44 NS	0713.0E	0800.8	399.00	150.0			
260 ONDR		44 NS	1000.0E	1051.7	195.00	65.0			
245 SGMR		44 NS	1231.0E	1553.0	494.00	250.0			QL=2 ST=2 TYP=1
280 CUBA		44 NS	1254.0E		501.00		69.0		
235 CUBA		44 NS	1254.0E		501.00		64.0		
245 PALE		44 NS	1721.0E	1852.0	399.00	98.0			QL=4 ST=2 TYP=1
100 HIRA		44 NS	2142.0E	0000.0	580.00	130.0	72.0		
200 HIRA		44 NS	2142.0E	0430.0	580.00	47.0	22.0		
200 HIRA		42 SER	0102.2	0102.8	18.5	135.0			MR
100 HIRA		46 C	0117.8	0118.7	2.5	400.0			SR
500 HIRA		46 C	0118.7	0119.0	4.0	54.0			O
100 HIRA		42 SER	0135.6	0207.5	76.0	1800.0			WR
610 LEAR		8 S	0150.0E	0150.0	1.00	85.0			QL=4 ST=2 TYP=3
245 LEAR		49 GB	0154.0E	0200.0	7.00	950.0			QL=2 ST=2 TYP=7
2840 PEKG		3 S	0154.0	0202.0	20.0	115.1			
610 LEAR		8 S	0156.0E	0157.0	1.00	380.0			QL=4 ST=2 TYP=3
410 LEAR		8 S	0156.0E	0156.0	1.00	210.0			QL=4 ST=2 TYP=3
500 HIRA		46 C	0156.2	0156.2	26.5	240.0	11.0		O
500 HIRA		46 C	0156.2	0202.3		30.0			WR
200 HIRA		48 C	0158.3	0205.1	8.1	7000.0	480.0		O
2695 LEAR		4 S/F	0200.0E	0202.0	6.00	96.0			QL=4 ST=2 TYP=3
1415 LEAR		4 S/F	0200.0E	0202.0	7.00	93.0			QL=4 ST=2 TYP=3
4995 LEAR		4 S/F	0200.0E	0202.0	3.00	47.0			QL=4 ST=2 TYP=3
2840 PEKG		1 S	0215.0	0218.9	7.0	7.9			
410 LEAR		8 S	0237.0E	0237.0	2.00	120.0			QL=4 ST=2 TYP=3
2840 PEKG		1 S	0244.0	0245.6	3.0	2.9			
410 LEAR		8 S	0349.0	0349.0	U	80.0			QL=4 ST=2 TYP=3
500 HIRA	8 S	0349.3	0349.6	1.0	195.0			O	
100 HIRA	8 S	0409.6	0410.3	1.2	920.0				
2840 PEKG	1 S	0412.0	0415.9	6.0	4.3				
410 LEAR	8 S	0452.0E	0452.0	U	180.0			QL=4 ST=2 TYP=3	
100 HIRA	46 C	0454.8	0456.8	4.6	410.0				
200 HIRA	42 SER	0516.5	0519.8	34.3	134.0			SR	
8800 LEAR	8 S	0535.0E	0536.0	1.00	13.0			QL=2 ST=2 TYP=3	
410 LEAR	8 S	0535.0E	0536.0	2.00	73.0			QL=4 ST=2 TYP=3	
2840 PEKG	20 GRF	0535.0	0541.5	30.0	9.4				
610 LEAR	8 S	0538.0E	0539.0	1.00	160.0			QL=4 ST=2 TYP=3	
950 GORK	20 GRF	0634.0	0646.7	16.7	4.0				

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	Mean		
							(10 -22 W/m 2 Hz)			
15	5900	KISV	22 GRF	0714.0	0714.4	53.3	8.0			
	2950	GORK	20 GRF	0718.2	0722.5	13.6	6.0			
	8800	LEAR	8 S	0731.0E	0731.0	U	17.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0732.0E	0732.0	1.00	150.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0732.0E	0732.0	1.00	150.0			QL=4 ST=2 TYP=3
	9300	KISV	22 GRF	0746.3	0747.8	127.0	8.0			
	2950	GORK	20 GRF	0747.5	0754.5	12.9	6.0			
	245	SVTO	4 S/F	0801.0E	0801.0	4.00	180.0			QL=4 ST=3 TYP=3
	2950	GORK	20 GRF	0819.9	0858.9	60.0	6.0			
	245	LEAR	8 S	0957.0E	0957.0	1.00	59.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	1008.0E	1008.0	1.00	76.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	1011.0E	1011.0	2.00	76.0			QL=2 ST=2 TYP=3
	536	ONDR	8 S	1048.0	1048.3	1.5	112.0			
	9300	KISV	2 S/F	1144.7	1145.3	3.6	11.0			
	15000	KISV	2 S/F	1145.1	1145.5	1.8	7.0			
	3000	POTS	20 GRF	1150.0	1153.0	22.0	11.0			
	9500	POTS	20 GRF	1150.0	1201.5	20.0	11.0			
	9400	HUAN	22 GRF	1211.4	1223.5	42.1	5.6	3.4		
	9400	HUAN	22 GRF	1421.7	1428.0	14.8	7.5	4.2		
	245	SGMR	8 S	1605.0E	1605.0	U	190.0			QL=2 ST=2 TYP=3
	9400	HUAN	1 S	1631.0	1633.3	5.4	5.6	3.1		
	9400	HUAN	1 S	1913.5	1915.3	4.1	6.5	3.6		
	410	SGMR	8 S	1959.0E	1959.0	1.00	91.0			QL=2 ST=2 TYP=3
9400	HUAN	22 GRF	2153.0	2208.2	30.7	8.4	5.2			
500	HIRA	20 GRF	2214.0	2424.0	286.0	48.0	16.0		MR	
16	245	PALE	44 NS	0102.0E	0111.0	118.00	150.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0102.0	0111.0	367.00	230.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		300.0	10.0			
	280	CUBA	44 NS	1257.0E		498.00		27.0		
	235	CUBA	44 NS	1257.0E		498.00		14.0		
	245	PALE	8 S	0055.0E	0056.0	1.00	80.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0056.0E	0056.0	1.00	100.0			QL=2 ST=2 TYP=3
	100	HIRA	42 SER	0319.8	0331.7	19.1	550.0			
	410	LEAR	8 S	0425.0E	0426.0	2.00	280.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0426.0E	0426.0	6.00	25.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0426.0E	0427.0	2.00	8.0			QL=2 ST=2 TYP=3
	500	HIRA	46 C	0426.3	0426.5	1.2	150.0			WL
	100	HIRA	41 F	0432.9	0438.9	15.2	220.0			
	500	HIRA	46 C	0443.0	0444.5	16.5	260.0			WL
	2840	PEKG	3 S	0443.0	0443.8	8.0	27.5			
	410	LEAR	49 GB	0444.0E	0444.0	1.00	940.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0444.0E	0444.0	2.00	83.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0444.0E	0444.0	1.00	69.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0444.0E	0444.0	2.00	44.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0444.0E	0444.0	2.00	54.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0444.0E	0445.0	3.00	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0444.0E	0444.0	1.00	52.0			QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0444.0E	0445.0	1.00	1600.0			QL=2 ST=2 TYP=6
	200	HIRA	46 C	0444.2	0444.6	1.3	240.0			WR
	410	LEAR	8 S	0514.0E	0515.0	1.00	83.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0514.0E	0514.0	1.00	53.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0514.0E	0515.0	1.00	18.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0514.0E	0515.0	1.00	23.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0514.0E	0515.0	1.00	20.0			QL=2 ST=2 TYP=3
	2840	PEKG	3 S	0514.0	0515.0	5.0	11.7			
	2840	PEKG	1 S	0602.0	0603.2	9.0	7.4			
	15000	KISV	2 S/F	0602.6	0603.5	1.8	44.0			
	9300	KISV	4 S/F	0602.9	0603.5	2.0	29.0			
610	LEAR	49 GB	0603.0E	0603.0	U	590.0			QL=4 ST=3 TYP=6	
1415	LEAR	8 S	0603.0E	0603.0	U	33.0			QL=4 ST=3 TYP=3	
4995	LEAR	8 S	0603.0E	0603.0	U	16.0			QL=2 ST=3 TYP=3	
2695	LEAR	8 S	0603.0E	0603.0	U	17.0			QL=4 ST=3 TYP=3	
15400	LEAR	8 S	0603.0E	0603.0	U	38.0			QL=4 ST=3 TYP=3	
500	HIRA	42 SER	0603.0	0603.2	6.0	1300.0			0	
5900	KISV	4 S/F	0603.2	0603.6	1.2	15.0				
5900	KISV	22 GRF	0604.8	0608.3	15.2	14.0				
9300	KISV	22 GRF	0604.9	0608.2	15.1	19.0				
410	LEAR	49 GB	0605.0E	0608.0	4.00	1400.0			QL=4 ST=3 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)	Flux Density Mean	Int	Remarks	
16	610	LEAR	8 S	0605.0E	0605.0	1.00	130.0			QL=4 ST=3 TYP=3	
	4995	LEAR	8 S	0606.0E	0608.0	2.00	9.0			QL=2 ST=3 TYP=3	
	410	LEAR	49 GB	0607.0E	0608.0	1.00	1400.0			QL=4 ST=3 TYP=6	
	610	LEAR	8 S	0607.0E	0608.0	1.00	58.0			QL=4 ST=3 TYP=3	
	4995	LEAR	8 S	0608.0E	0608.0	U	8.0			QL=2 ST=3 TYP=3	
	15000	KISV	20 GRF	0636.7	0640.4	18.3	23.0				
	5900	KISV	23 GRF	0639.1	0645.2	16.6	12.0				
	9300	KISV	23 GRF	0639.2	0645.2	10.7	10.0				
	5900	KISV	4 S/F	0639.8	0640.4	3.2	16.0				
	9300	KISV	2 S/F	0640.0	0640.3	3.8	17.0				
	610	LEAR	8 S	0644.0E	0645.0	1.00	55.0				QL=4 ST=3 TYP=3
	410	LEAR	8 S	0644.0E	0644.0	1.00	430.0				QL=4 ST=3 TYP=3
	610	SVTO	8 S	0644.0E	0644.0	2.00	31.0				QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	0644.0E	0644.0	8.00	140.0				QL=2 ST=2 TYP=3
	650	GORK	2 S/F	0644.5	0645.8	1.8	13.0				
	950	GORK	1 S	0644.7	0645.8	1.7	6.0				
	410	LEAR	49 GB	0724.0E	0726.0	6.00	1500.0				QL=4 ST=3 TYP=6
	9300	KISV	2 S/F	0724.7	0726.9	6.1	9.0				
	5900	KISV	2 S/F	0724.9	0726.1	9.7	12.0				
	610	LEAR	4 S/F	0725.0E	0726.0	3.00	56.0				QL=4 ST=3 TYP=3
	204	IZMI	41 F	0725.0	0725.7	3.5	7500.0				
	410	SVTO	49 GB	0726.0E	0726.0	1.00	810.0				QL=4 ST=2 TYP=6
	610	SVTO	8 S	0726.0E	0726.0	1.00	86.0				QL=4 ST=2 TYP=3
	5900	KISV	20 GRF	0824.6	0829.5	13.7	7.0				
	260	ONDR	41 F	1000.0	1202.1	150.0	62.0				
	5900	KISV	2 S/F	1025.3	1026.5	6.1	13.0				
	2850	CRIM	20 GRF	1025.5	1027.0	10.0	8.5	3.0			
	3000	POTS	20 GRF	1026.0	1027.0	34.0	7.0				
	9500	POTS	20 GRF	1026.0	1026.5	34.0	11.0				
	9300	KISV	2 S/F	1026.1	1026.5	7.3	11.0				
	9400	HUAN	23 GRF	1101.4	1121.7	55.2	11.8	4.8			
	9400	HUAN	2 S/F	1102.3	1105.9	6.9	13.8	6.2			
	9300	KISV	23 GRF	1105.3	1121.8	29.2	8.0				
	9500	POTS	40 F	1106.0	1117.6	19.0	18.0				
	3000	POTS	20 GRF	1107.0	1111.0	8.0	8.0				
	5900	KISV	46 C	1108.0	1115.3		11.0				
	5900	KISV	46 C	1108.0	1110.5		16.0				
	5900	KISV	46 C	1108.0	1112.8	14.6	18.0				
	5900	KISV	46 C	1108.0	1116.9		17.0				
	9300	KISV	45 C	1108.8	1110.4	5.5	14.0				
	9300	KISV	45 C	1108.8	1112.9		13.0				
	536	ONDR	8 S	1112.6	1113.2	0.7	172.0				
	113	POTS	4 S/F	1115.9	1116.4	2.0	275.0				
	9300	KISV	2 S/F	1116.3	1117.8	3.0	18.0				
	9400	HUAN	2 S/F	1128.6	1130.7	5.3	9.8	4.2			
	9400	HUAN	1 S	1146.3	1148.5	4.9	15.7	8.4			
	5900	KISV	2 S/F	1147.4	1149.0	5.6	19.0				
15000	KISV	2 S/F	1147.8	1148.8	3.6	14.0					
9500	POTS	4 S/F	1148.0	1149.0	3.0	16.0					
234	POTS	42 SER	1156.5	1202.8	40.5	100.0					
113	POTS	42 SER	1158.8	1204.7	17.0U	200.0					
260	ONDR	49 GB	1200.0	1202.1	23.0	62.0					
245	SVTO	8 S	1202.0E	1202.0	1.00	69.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	1202.0E	1202.0	1.00	84.0				QL=4 ST=2 TYP=3	
610	SVTO	8 S	1233.0E	1234.0	2.00	55.0				QL=4 ST=2 TYP=3	
610	SGMR	8 S	1234.0E	1234.0	1.00	50.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1234.0E	1234.0	U	110.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	1234.0E	1234.0	1.00	110.0				QL=4 ST=2 TYP=3	
9400	HUAN	22 GRF	1302.6	1325.6	62.0	10.9	5.6				
9400	HUAN	22 GRF	1602.0	1615.1	30.1	5.4	3.8				
9400	HUAN	20 GRF	1903.1	1922.0	31.7	7.2	4.1				
9400	HUAN	1 S	2141.6	2143.3	5.8	7.2	3.4				
9400	HUAN	1 S	2226.8	2229.0	4.8	5.4	2.6				
17	200	GORK	44 NS	0610.0E		319.00		5.0			
	100	GORK	44 NS	0610.0E		319.00		5.0			
	204	IZMI	43 NS	0700.0		300.0	35.0				
	234	POTS	44 NS	0712.0E	0918.0U	420.00	40.0				
	113	POTS	44 NS	0725.0E	1359.0	410.00	50.0				

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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	245	SVTO	44 NS	0807.0E	1333.0U	411.00	170.0			QL=2 ST=2 TYP=1
	260	ONDR	44 NS	1000.0E	1212.8	190.00	104.0			
	127	TORN	44 NS	1200.0E		140.00		20.0		V=3
	245	SGMR	44 NS	1232.0E	1333.0	221.00	220.0			QL=2 ST=2 TYP=1
	235	CUBA	44 NS	1253.0E		52.00		20.0		
	280	CUBA	44 NS	1253.0E		570.00		33.0		
	245	SGMR	44 NS	1832.0E	2001.0	133.00	200.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1912.0E	0228.0	503.00	250.0			QL=4 ST=2 TYP=1
	100	HIRA	44 NS	2142.0E	0312.0	580.00	230.0		58.0	
	200	HIRA	44 NS	2142.0E	0600.0	580.00	160.0		56.0	SR
	245	LEAR	44 NS	2224.0E	0228.0	680.00	320.0			QL=2 ST=2 TYP=1
	610	LEAR	8 S	0040.0E	0041.0	1.00	55.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0040.0E	0041.0	1.00	95.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0040.0E	0041.0	1.00	87.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0103.0E	0103.0	U	74.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0103.0E	0103.0	U	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0312.0	0317.1	9.0	28.3			
	4995	LEAR	4 S/F	0314.0E	0317.0	4.00	110.0			QL=2 ST=2 TYP=3
	2695	LEAR	4 S/F	0315.0E	0317.0	3.00	34.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0316.0E	0317.0	2.00	38.0			QL=2 ST=2 TYP=3
	4995	PALE	8 S	0316.0E	0317.0	2.00	110.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0443.0E	0443.0	U	130.0			QL=4 ST=2 TYP=3
	5900	KISV	45 C	0631.0	0638.1	12.8	115.0			
	5900	KISV	45 C	0631.0	0638.5		114.0			
	5900	KISV	29 PBI	0631.0	0643.8	14.0	14.0			
	9300	KISV	45 C	0633.8	0638.4		86.0			
	9300	KISV	45 C	0633.8	0638.5	10.1	101.0			
	9300	KISV	29 PBI	0633.8	0643.9	12.4	14.0			
	4995	LEAR	4 S/F	0634.0E	0638.0	14.00	79.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0636.0E	0638.0	3.00	77.0			QL=2 ST=2 TYP=3
	9100	GORK	2 S/F	0636.7	0638.4	3.3	90.0			
	8800	LEAR	4 S/F	0637.0E	0638.0	3.00	78.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0637.0E	0638.0	2.00	31.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0637.0E	0638.0	4.00	110.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	0637.0	0638.1	6.0	16.3			
	2950	GORK	4 S/F	0637.3	0638.0	3.7	35.0			
	950	GORK	4 S/F	0637.3	0638.5	3.6	150.0			
	2850	CRIM	45 C	0637.4	0638.0	3.6	33.0		11.0	
	2850	CRIM	45 C	0637.4	0638.6		30.0			
	15000	KISV	23 GRF	0637.4	0646.8	17.4	13.0			
	15000	KISV	2 S/F	0637.4	0638.9	8.2	39.0			
	15400	LEAR	8 S	0638.0E	0638.0	1.00	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0638.0E	0640.0	7.00	50.0			QL=2 ST=2 TYP=3
	9100	GORK	29 PBI	0640.0	0640.0	15.6	17.0			
	245	LEAR	8 S	0738.0E	0738.0	1.00	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0738.0E	0738.0	1.00	65.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0741.0E	0743.0	2.00	76.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0744.0E	0744.0	2.00	61.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0749.9	0752.9	21.3	9.0			
	245	LEAR	8 S	0806.0E	0807.0	1.00	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0816.0E	0816.0	1.00	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0816.0E	0816.0	1.00	140.0			QL=2 ST=2 TYP=3
	9300	KISV	20 GRF	0825.7	0830.9	25.0	6.0			
	5900	KISV	2 S/F	0826.0	0828.5	5.3	10.0			
	245	LEAR	8 S	0843.0E	0843.0	U	73.0			QL=4 ST=2 TYP=3
204	IZMI	5 S	0845.4	0846.0	2.0	850.0		650.0		
5900	KISV	2 S/F	0914.7	0915.4	1.2	4.0				
5900	KISV	45 C	0918.0	0919.4		13.0				
5900	KISV	45 C	0918.0	0920.9	9.3	18.0				
9300	KISV	45 C	0918.5	0919.4		6.0				
9300	KISV	45 C	0918.5	0920.8	5.0	10.0				
9500	CUBA	21 GRF	1309.0	1857.0	531.00	30.0			SUNSET	
245	SGMR	8 S	1458.0E	1459.0	1.00	210.0			QL=2 ST=2 TYP=3	
6700	CUBA	3 S	1525.3	1526.9	7.7	175.0		26.0		
9400	HUAN	3 S	1525.7	1526.7	2.9	276.5		104.2		
15400	SGMR	8 S	1526.0E	1527.0	2.00	250.0			QL=2 ST=2 TYP=3	
8800	SGMR	8 S	1526.0E	1527.0	2.00	240.0			QL=2 ST=2 TYP=3	
1415	SGMR	8 S	1526.0E	1527.0	1.00	34.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1526.0E	1527.0	1.00	58.0			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
17	4995	SGMR	4 S/F	1526.0E	1527.0	3.00	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1526.0	1527.1	7.5	277.0	39.0		
	15000	CUBA	1 S	1526.4	1527.0	1.6	306.0			50R
	2800	OTTA	3 S	1526.6	1527.1	8.9	58.8	12.0		
	9400	HUAN	29 PBI	1528.6	1528.6	67.4	16.3	7.4		
	15000	CUBA	29 PBI	1529.0		20.0	32.0	16.0		00R
	6700	CUBA	29 PBI	1533.0		6.0	8.0	4.0		
	245	PALE	8 S	1832.0E	1833.0	1.00	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1832.0E	1833.0	1.00	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1855.0E	1855.0	U	100.0			QL=4 ST=2 TYP=3
500	HIRA	23 GRF	2235.0	2345.0	170.0	18.0	4.0		MR	
610	LEAR	4 S/F	2354.0E	2354.0	8.00	190.0			QL=4 ST=2 TYP=3	
18	410	PALE	44 NS	0203.0E	0213.0	53.00	180.0			QL=4 ST=2 TYP=1
	100	GORK	44 NS	0623.0E		307.00		5.0		
	200	GORK	44 NS	0624.0E		306.00		5.0		
	245	SVTO	44 NS	0631.0E	1329.0	508.00	250.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0700.0		300.0	45.0			
	127	TORN	44 NS	0700.0E		440.00		250.0		V=1
	113	POTS	44 NS	0715.0E	0816.00	417.00	30.0			
	234	POTS	44 NS	0715.0E	0733.00	417.00	160.0			
	260	ONDR	44 NS	1000.0E	1301.5	190.00	270.0			
	245	SGMR	44 NS	1233.0E	1331.0	493.00	250.0			QL=2 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		480.00		46.0		
	410	SVTO	44 NS	1300.0E	1301.0	119.00	63.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1507.0E		353.00		68.0		
	245	PALE	44 NS	1856.0E	0221.0	480.00	480.0			QL=4 ST=2 TYP=1
	100	HIRA	44 NS	2143.0E	2224.0	420.00	170.0			
	200	HIRA	44 NS	2143.0E	0350.0	440.00	310.0	108.0		
	245	LEAR	43 NS	2340.0	0317.0	666.0	450.0			QL=2 ST=2 TYP=1
	100	HIRA	42 SER	0049.5	0050.8	4.6	1000.00			
	2840	PEKG	45 C	0148.0	0152.0	13.0	27.2			
	8800	LEAR	4 S/F	0149.0E	0151.0	6.00	180.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0149.0E	0151.0	4.00	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0149.0E	0151.0	5.00	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0149.0E	0151.0	4.00	50.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0149.0E	0151.0	4.00	39.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0149.0E	0151.0	4.00	140.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0149.0E	0151.0	4.00	100.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0149.0E	0151.0	1331.00	47.0			QL=4 ST=1 TYP=3
	1415	PALE	4 S/F	0150.0E	0152.0	3.00	38.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0150.0E	0151.0	3.00	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0152.0E	0152.0	1.00	61.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	0152.0	0152.5	3.7	16.0			WR
	500	HIRA	20 GRF	0200.0	0248.0	78.0	8.0	5.0		WR
	100	HIRA	42 SER	0227.7	0237.0	14.5	1000.00			
	410	PALE	8 S	0324.0E	0325.0	1.00	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0446.0E	0446.0	1.00	310.0			QL=4 ST=2 TYP=3
	500	HIRA	46 C	0513.2	0515.0	2.5	46.0			WR
	100	HIRA	41 F	0514.2		4.0	1000.00			
	245	LEAR	8 S	0544.0E	0544.0	1.00	180.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0606.2	0607.7	3.2	440.0			
	500	HIRA	46 C	0606.4	0608.4	3.8	18.0			WR
	650	GORK	23 GRF	0633.0E	0705.0	145.80	9.0			
	9100	GORK	22 GRF	0733.00	1039.0	237.00	47.0			
	245	LEAR	8 S	0741.0E	0741.0	U	290.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0741.0E	0741.0	U	350.0			QL=2 ST=2 TYP=3
	234	POTS	4 S/F	0741.0	0741.3	0.7	900.0			
650	GORK	4 S/F	0823.3	0824.1	2.6	35.0				
3000	POTS	4 S/F	0825.0	0825.5	1.0	8.0				
9500	POTS	4 S/F	0826.5	0827.5	2.0	14.0				
9300	KISV	45 C	0826.6	0827.0		16.0				
15000	KISV	4 S/F	0826.6	0827.4	5.5	51.0				
9300	KISV	45 C	0826.6	0827.5	11.4	19.0				
5900	KISV	2 S/F	0906.0	0908.4	6.3	9.0				
9300	KISV	2 S/F	0907.4	0908.5	8.2	7.0				
15000	KISV	22 GRF	0930.8	0931.4	18.1	27.0				
2850	CRIM	40 F	0945.0	0945.2	1.2	11.6	4.0			
2850	CRIM	25 R	0950.0	1038.6		33.6	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 (2 Hz)		
18	2950	GORK	22 GRF	0958.4	1038.6	71.6U	29.0			
	950	GORK	21 GRF	0958.5	1034.6		60.5			
	9300	KISV	22 GRF	1026.2	1028.8	45.8	36.0			
	2850	CRIM	40 F	1026.5	1027.1	1.5	13.0	4.0		
	950	GORK	2 S/F	1026.7	1027.3	1.6	10.0			
	5900	KISV	22 GRF	1026.7	1038.8	46.8	25.0			
	650	GORK	4 S/F	1029.7	1033.0	6.3	380.0			
	950	GORK	5 S	1030.7	1031.6	3.9	6.0			
	650	GORK	46 C	1048.5	1050.0		10.0			
	650	GORK	46 C	1048.5	1048.9	1.9	10.0			
	9400	HUAN	23 GRF	1252.8	1310.4	114.9	23.0	10.6		
	234	POTS	45 C	1256.7	1353.5	75.00	275.0			
	113	POTS	45 C	1258.8	1336.5	73.00	800.0			
	9500	POTS	40 F	1300.0	1303.3	55.0	26.0			
	3000	POTS	29 PBI	1300.0	1303.5	55.0	53.0			
	40	POTS	45 C	1300.0	1404.5	72.00	7500.0			
	33	UPIC	46 C	1300.2	1301.0	17.7				
	9400	HUAN	3 S	1300.5	1303.5	6.8	24.9	11.8		
	2695	SGMR	4 S/F	1301.0E	1303.0	7.00	52.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1303.0E	1317.0	147.00	18.0			SUNRISE
	600	HUMN	2 S/F	1309.0	1310.0	5.0	32.0	12.0		
	245	SGMR	4 S/F	1309.0E	1310.0	3.00	300.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1309.0E	1310.0	1.00	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1312.0E	1313.0	1.00	120.0			QL=2 ST=2 TYP=3
	410	SGMR	4 S/F	1312.0E	1313.0	3.00	52.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1313.0E	1313.0	U	47.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1347.0E	1353.0	8.00	970.0			QL=2 ST=2 TYP=6
	6700	CUBA	4 S/F	1347.1	1350.7	7.9	11.0	5.0		
	245	SGMR	49 GB	1349.0E	1353.0	6.00	970.0			QL=2 ST=2 TYP=6
	600	HUMN	2 S/F	1350.0	1354.0	6.0	17.0	6.0		
	410	SGMR	8 S	1350.0E	1350.0	1.00	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1350.0E	1351.0	1.00	390.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	1350.0E	1350.0	4.00	300.0			QL=2 ST=2 TYP=5
	245	SGMR	49 GB	1352.0E	1353.0	3.00	970.0			QL=4 ST=3 TYP=6
	410	SGMR	8 S	1352.0E	1353.0	2.00	180.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	1407.0	1408.1	8.5	13.0	6.0		
	6700	CUBA	2 S/F	1440.1	1440.5	4.8	11.0	5.0		
	410	SGMR	8 S	1521.0E	1522.0	1.00	100.0			QL=4 ST=3 TYP=3
	2800	OTTA	3 S	1522.0	1522.1	1.1	42.3	9.0		
	9400	HUAN	22 GRF	1540.4	1555.9	29.3	5.7	3.8		
	9400	HUAN	20 GRF	1651.1	1705.7	46.0	4.8	2.9		
	245	PALE	8 S	1945.0E	1946.0	1.00	370.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1945.0E	1946.0	1.00	580.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	2002.0E	2002.0	1.00	190.0			QL=2 ST=2 TYP=3
	2800	OTTA	3 S	2023.5	2027.1	7.2	33.5	10.0		
1415	PALE	4 S/F	2024.0E	2025.0	4.00	55.0			QL=4 ST=2 TYP=3	
6700	CUBA	21 GRF	2025.0	2051.0	50.00	23.0			2115 OFF	
245	PALE	8 S	2026.0E	2027.0	2.00	90.0			QL=2 ST=2 TYP=3	
6700	CUBA	2 S/F	2026.2	2026.3	2.3	16.0	8.0			
235	CUBA	7 C	2028.5	2030.5	6.5	128.0				
280	CUBA	7 C	2029.0	2030.7	7.0	224.0				
6700	CUBA	46 C	2034.5	2042.8	16.0	96.0	24.0			
2800	OTTA	4 S/F	2036.0	2042.9	18.8	45.0	13.0			
4995	PALE	4 S/F	2037.0E	2042.0	14.00	100.0			QL=4 ST=2 TYP=5	
8800	PALE	8 S	2038.0E	2039.0	1.00	25.0			QL=4 ST=2 TYP=3	
9500	CUBA	21 GRF	2038.0	2048.0	21.0	9.0	4.0			
15000	CUBA	23 GRF	2041.0E	2042.0U	14.00	30.0			41L	
9400	HUAN	4 S/F	2041.0E	2042.3U	5.80	63.2	28.8			
9500	CUBA	2 S/F	2041.5	2042.7	6.0	49.0	23.0			
1415	PALE	8 S	2042.0E	2043.0	2.00	37.0			QL=4 ST=2 TYP=3	
2695	PALE	4 S/F	2042.0E	2042.0	4.00	44.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2107.0E	2108.0	2.00	160.0			QL=2 ST=3 TYP=3	
410	PALE	8 S	2121.0E	2121.0	1.00	73.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2144.0E	2144.0	U	120.0			QL=4 ST=2 TYP=3	
9400	HUAN	2 S/F	2210.0	2215.0	10.5	15.3	6.2			
245	LEAR	8 S	2335.0E	2335.0	2.00	73.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2354.0E	2354.0	1.00	240.0			QL=4 ST=2 TYP=3	
19	100	GORK	44 NS	0610.0E		320.00		60.0		

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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	0611.0E		321.00		20.0		
	245 SVTO	44 NS	0631.0E	0856.0	508.00	480.0			QL=2 ST=2 TYP=1
	410 SVTO	44 NS	0647.0E	0828.0	185.00	82.0			QL=4 ST=2 TYP=1
	204 IZMI	43 NS	0700.0		300.0	500.0			
	127 TORN	44 NS	0700.0E		440.00		480.0		V=1
	234 POTS	44 NS	0714.0E	0755.0U	299.00	300.0			
	113 POTS	44 NS	0714.0E	0756.7	299.00	1000.0			
	260 ONDR	44 NS	1000.0E	1123.2	190.00	676.0			
	245 SGMR	44 NS	1234.0E	1757.0	492.00	560.0			QL=2 ST=2 TYP=1
	235 CUBA	44 NS	1253.0E		520.00		60.0		
	280 CUBA	44 NS	1253.0E		570.00		72.0		
	245 PALE	44 NS	1723.0E	1800.0	394.00	300.0			QL=4 ST=2 TYP=1
	410 SGMR	44 NS	1758.0E	1758.0	60.00	50.0			QL=4 ST=2 TYP=1
	200 HIRA	44 NS	2142.0E	2250.0	580.00	120.0	41.0		SR
	245 LEAR	43 NS	2304.0	0616.0	586.0	220.0			QL=2 ST=2 TYP=1
	100 HIRA	42 SER	0115.0	0202.0	62.0	450.0			
	100 HIRA	42 SER	0236.0	0312.0	79.0	550.0			
	2840 PEKG	45 C	0406.0	0416.0	42.0	18.1			
	4995 LEAR	4 S/F	0427.0E	0429.0	3.00	27.0			QL=4 ST=2 TYP=3
	2695 LEAR	20 GRF	0428.0E	0436.0	9.00	34.0			QL=4 ST=2 TYP=2
	610 LEAR	8 S	0435.0E	0436.0	1.00	120.0			QL=4 ST=2 TYP=3
	500 HIRA	46 C	0435.2	0435.9	2.5	170.0			ML
	410 LEAR	8 S	0436.0E	0436.0	U	91.0			QL=2 ST=2 TYP=3
	100 HIRA	24 R	0438.3	0603.0	165.00	950.0	450.0		SUNSET
	200 HIRA	24 R	0456.0	0513.0	145.00	430.0	340.0		WR SUNSET
	245 LEAR	20 GRF	0458.0E	0513.0	25.00	230.0			QL=2 ST=2 TYP=2
	410 LEAR	8 S	0505.0E	0505.0	U	19.0			QL=2 ST=2 TYP=3
	610 LEAR	8 S	0518.0E	0519.0	1.00	12.0			QL=4 ST=2 TYP=3
	9100 GORK	23 GRF	0600.0E	0651.8U	300.00	24.0			
	2950 GORK	46 C	0604.3	0610.1		32.0			
	2950 GORK	46 C	0604.3	0605.1	8.3	52.0			
	2950 GORK	46 C	0604.3	0608.5		56.0			
	2950 GORK	46 C	0604.3	0606.7		50.0			
	9300 KISV	2 S/F	0617.4	0618.2	3.7	22.0			
	5900 KISV	2 S/F	0617.4	0618.4	3.8	14.0			
	5900 KISV	2 S/F	0625.9	0627.9	4.4	15.0			
	2850 CRIM	1 S	0626.0	0627.9	3.0	9.3	3.0		
	9300 KISV	2 S/F	0626.0	0627.9	2.7	16.0			
	5900 KISV	2 S/F	0723.3	0723.9	1.7	4.0			
	5900 KISV	2 S/F	0727.9	0728.4	1.3	4.0			
	950 GORK	22 GRF	0812.0	0821.0	22.7	3.0			
	650 GORK	20 GRF	0812.7	0821.0	22.0	3.0			
	5900 KISV	2 S/F	0835.5	0836.3	6.7	11.0			
	9300 KISV	2 S/F	0835.5	0836.3	5.1	22.0			
	9100 GORK	1 S	0836.0	0836.3	0.9	20.0			
	245 LEAR	8 S	0854.0E	0856.0	2.00	270.0			QL=2 ST=2 TYP=3
	234 POTS	41 F	0854.2	0854.7	2.5	900.0			
	40 POTS	41 F	0855.2	0857.7	4.8	9000.0			
	113 POTS	41 F	0855.2	0855.8	3.4	1200.0			
	5900 KISV	2 S/F	0950.5	0950.8	1.2	4.0			
9300 KISV	1 S	0950.7	0950.9	0.7	5.0				
9300 KISV	23 GRF	1112.5	1118.1	40.9	25.0				
2950 GORK	46 C	1112.8	1120.2		20.0				
2950 GORK	46 C	1112.8	1123.2		27.0				
2950 GORK	46 C	1112.8	1118.2	11.3	13.0				
5900 KISV	23 GRF	1114.4	1132.6	38.0	10.0				
9500 POTS	40 F	1115.0	1123.0	20.0	44.0				
2850 CRIM	30 PBI	1115.2	1125.2	14.0	6.5	2.0			
2850 CRIM	45 C	1115.2	1120.2	10.0	36.0	19.0			
2850 CRIM	45 C	1115.2	1123.3		57.0				
3013 IZMI	7 C	1116.0	1123.0	10.0	31.0				
5900 KISV	47 GB	1117.4	1123.0	11.1	772.0				
3000 POTS	40 F	1117.5	1123.5	8.5	57.0				
9300 KISV	45 C	1119.4	1123.1	7.9	61.0				
9300 KISV	45 C	1119.4	1120.4		20.0				
9100 GORK	2 S/F	1120.4	1123.1	5.6	60.0				
950 GORK	2 S/F	1121.3	1123.2	3.7	12.0				
650 GORK	4 S/F	1121.5	1123.3	3.8	30.0				
15000 KISV	2 S/F	1122.7	1123.0	2.2	18.0				

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

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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	536 ONDR	4 S/F	1122.7	1123.0	2.0	20.0			
	234 POTS	4 S/F	1122.8	1123.0	1.3	24000.0			
	100 GORK	4 S/F	1122.8	1123.8	1.4	2000.0			
	113 POTS	4 S/F	1122.9	1123.0	3.2	1100.0			
	30 POTS	4 S/F	1122.9	1123.1	2.1	7000.0U			
	200 GORK	4 S/F	1122.9	1123.2	0.7	2200.0			
	4995 SVTO	8 S	1123.0E	1123.0		66.0			QL=4 ST=2 TYP=3
	245 SVTO	49 GB	1123.0E	1123.0		1900.0			QL=2 ST=2 TYP=6
	600 HUMN	1 S	1123.0	1123.2	1.5	13.0	4.0		
	204 IZMI	45 C	1123.0	1123.2	1.0	60000.0			
	2850 CRIM	1 S	1132.2	1132.3	0.8	3.9	1.0		
	5900 KISV	2 S/F	1148.5	1149.3	2.7	11.0			
	9300 KISV	2 S/F	1148.6	1149.3	1.8	13.0			
	9400 HUAN	22 GRF	1231.0	1256.0	47.0	9.1	4.6		
	610 SVTO	8 S	1232.0E	1232.0		180.0			
	15000 CUBA	22 GRF	1301.0E	1503.0	545.00	163.0			QL=2 ST=2 TYP=3 23R SUNRISE,SUM
	9400 HUAN	22 GRF	1327.9	1344.2	52.9	10.9	5.8		
	6700 CUBA	20 GRF	1328.0	1329.0	12.0	6.0	3.0		
	6700 CUBA	21 GRF	1418.0	1513.0	338.0	42.0	21.0		
	9400 HUAN	22 GRF	1431.4	1502.0	89.6	81.9	36.7		
	2800 OTTA	20 GRF	1443.0	1501.5	80.0	24.0	11.0		
	9500 CUBA	21 GRF	1448.0	1500.0	65.0	58.0	29.0		
	15400 SGMR	20 GRF	1453.0E	1507.0	77.00	94.0			QL=2 ST=2 TYP=2
	6700 CUBA	3 S	1459.0	1502.5	8.0	14.0	7.0		
	9500 CUBA	3 S	1459.0	1502.8	8.0	14.0	7.0		
	6700 CUBA	1 S	1508.4	1508.9	1.6	6.0	3.0		
	9500 CUBA	1 S	1521.5	1525.0	5.9	16.0	8.0		
	6700 CUBA	1 S	1531.8	1532.4	1.2	12.0	6.0		
	9500 CUBA	1 S	1532.9	1533.4	1.6	18.0	9.0		
	6700 CUBA	20 GRF	1624.0	1810.0	212.0	21.0	10.0		
	9400 HUAN	4 S/F	1701.9	1711.3	11.9	34.6	12.8		
	9500 CUBA	1 S	1709.9	1711.2	2.9	52.0	26.0		
	6700 CUBA	2 S/F	1710.8	1712.2	4.2	36.0	18.0		
610 SGMR	8 S	1727.0E	1727.0	1.00	74.0			QL=2 ST=2 TYP=3	
2800 OTTA	20 GRF	1750.5	1802.5	72.0	14.9	7.0			
9400 HUAN	22 GRF	1756.8	1820.6	58.7	12.7	6.4			
280 CUBA	7 C	1800.0	1805.0U	8.0	115.0				
235 CUBA	7 C	1800.0	1805.0U	8.0	182.0				
9400 HUAN	2 S/F	1939.4	1944.7	8.8	7.3	4.8			
9400 HUAN	1 S	2132.8	2136.3	126.2	10.9	5.2			
9400 HUAN	2 S/F	2146.6	2151.8	12.9	16.4	7.4			
9400 HUAN	1 S	2213.4	2218.3	8.9	12.7	5.6			
245 LEAR	8 S	2251.0E	2252.0	1.00	74.0			QL=4 ST=2 TYP=3	
20	200 GORK	44 NS	0620.0E		310.00	5.0			
	100 GORK	44 NS	0621.0E		309.00	5.0			
	245 SVTO	44 NS	0646.0E	0732.0	132.00	500.0		QL=4 ST=2 TYP=1	
	204 IZMI	43 NS	0700.0		300.0	100.0			
	127 TORN	44 NS	0700.0E		440.00		60.0	V=1	
	260 ONDR	44 NS	1102.0E	1102.2	160.00	250.0			
	235 CUBA	44 NS	1253.0E		517.00		20.0		
	280 CUBA	44 NS	1353.0E		517.00		30.0		
	4995 LEAR	8 S	0506.0E	0506.0	1.00	27.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0506.0E	0506.0	1.00	87.0			QL=4 ST=2 TYP=3
	15400 LEAR	8 S	0506.0E	0506.0	1.00	54.0			QL=4 ST=2 TYP=3
	100 HIRA	46 C	0630.4	0630.5	1.5	1000.0			WL
	200 GORK	4 S/F	0632.2	0632.5	0.6	760.0			
	5900 KISV	47 GB	0636.5	0732.0		96.0			
	5900 KISV	46 C	0636.5	0639.2		12.0			
	5900 KISV	46 C	0636.5	0637.5		13.0			
	5900 KISV	46 C	0636.5	0640.5	18.5	13.0			
	5900 KISV	47 GB	0636.5	0717.9		157.0			
	650 GORK	4 S/F	0638.8	0641.7	3.5	14.0			
	950 GORK	5 S	0639.0	0641.1	3.5	6.0			
	650 GORK	23 GRF	0654.4	0721.4	59.3	6.0			
	950 GORK	21 GRF	0654.6	0721.3	56.1	9.0			
	9100 GORK	23 GRF	0700.0U	0743.6	147.00	23.0			
3013 IZMI	7 C	0703.0	0715.0	35.0	80.0				
2840 PEKG	45 C	0703.0	0715.6	45.0	114.0				

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

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D E C E M B E R 1 9 9 0

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
20	410	SVTO	49 GB	0704.0E	0704.0	4.00	680.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0704.0E	0706.0	14.00	630.0			QL=2 ST=2 TYP=6
	650	GORK	46 C	0704.5	0706.5	4.4	120.0			
	650	GORK	46 C	0704.5	0707.7		125.0			
	9300	KISV	23 GRF	0704.7	0708.5	73.3	22.0			
	2850	CRIM	45 C	0704.8	0715.1		117.0			
	2850	CRIM	45 C	0704.8	0717.2		109.0			
	2850	CRIM	45 C	0704.8	0706.8	13.2	30.0			
	8800	SVTO	4 S/F	0705.0E	0707.0	3.00	47.0			QL=4 ST=2 TYP=3
	100	HIRA	46 C	0705.1	0706.5	2.8	2700.0			WR
	950	GORK	4 S/F	0705.1	0706.7	3.6	50.0			
	9300	KISV	4 S/F	0705.5	0707.3	2.8	30.0			
	1415	SVTO	8 S	0706.0E	0707.0	1.00	28.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0706.0E	0707.0	2.00	130.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	0706.0E	0706.0	1.00	38.0			QL=4 ST=2 TYP=3
	204	IZHI	41 F	0706.0	0713.0	15.0	1800.0			
	127	TORN	42 SER	0706.3	0706.5	19.0	2000.00			
	200	GORK	41 F	0707.0U	0716.1		760.0			
	100	GORK	41 F	0707.0U	0707.2	12.10	1100.0			
	100	GORK	41 F	0707.0U	0716.6		500.0			
	200	GORK	41 F	0707.0U	0709.9	9.70	450.0			
	9300	KISV	4 S/F	0709.6	0717.1	9.5	156.0			
	9100	GORK	46 C	0712.4	0716.1	29.6	115.0			
	9100	GORK	46 C	0712.4	0732.4		58.0			
	950	GORK	4 S/F	0712.8	0716.8	7.5	40.0			
	2695	SVTO	4 S/F	0713.0E	0715.0	6.00	79.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	0713.1	0717.4	8.3	55.0			
	15400	SVTO	4 S/F	0714.0E	0716.0	9.00	130.0			QL=4 ST=2 TYP=3
	15000	KISV	2 S/F	0715.7	0717.1	4.1	37.0			
	1415	LEAR	8 S	0717.0E	0717.0	2.00	53.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0717.0E	0717.0	13.00	72.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0717.0E	0717.0	13.00	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0717.0E	0718.0	13.00	130.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0717.0E	0717.0	13.00	86.0			QL=4 ST=2 TYP=3
	2850	CRIM	30 PBI	0720.0E	0720.0	45.00	26.0	8.0		
	100	GORK	47 GB	0722.4	0727.1		12500.0			
	100	GORK	47 GB	0722.4	0724.4	8.6	5500.0			
	113	POTS	45 C	0722.5	0726.8	7.50	600.0			
	234	POTS	45 C	0725.0U	0731.2	19.00	900.0			
	30	POTS	4 S/F	0727.8	0731.8	9.8	2000.00			
	200	GORK	46 C	0728.4	0739.0		330.0			
	200	GORK	46 C	0728.4	0734.4	11.1	300.0			
	9300	KISV	4 S/F	0728.7	0732.0	9.2	53.0			
	2850	CRIM	1 S	0729.0	0733.0	11.0	24.0	8.0		
	204	IZHI	41 F	0729.0	0737.0	16.0	950.0			
	245	LEAR	4 S/F	0731.0E	0736.0	8.00	220.0			QL=2 ST=2 TYP=3
	15000	KISV	23 GRF	0732.1E	0732.1		35.0			
	950	GORK	40 F	0733.1	0735.6	10.3	30.0			
	5900	KISV	29 PBI	0739.3E	0739.3	37.50	28.0			
	5900	KISV	45 C	0822.2	0823.5		5.0			
5900	KISV	45 C	0822.2	0822.8	1.1	5.0				
245	LEAR	8 S	0851.0E	0851.0	1.00	78.0			QL=2 ST=2 TYP=3	
5900	KISV	2 S/F	0859.7	0900.7	2.7	3.0				
9300	KISV	2 S/F	0913.2	0913.4	1.0	5.0				
5900	KISV	2 S/F	0914.9	0916.0	2.3	2.0				
234	POTS	8 S	0928.4	0928.4	0.4	100.0				
5900	KISV	1 S	0949.8	0950.5	2.0	5.0				
9300	KISV	2 S/F	0950.1	0950.5	0.9	3.0				
536	ONDR	27 RF	1020.2	1040.0	27.0	14.0				
950	GORK	4 S/F	1027.2	1027.9	2.5	35.0				
650	GORK	5 S	1027.2	1027.9	1.1	14.0				
234	POTS	8 S	1037.2	1037.3	0.3	150.0				
5900	KISV	29 PBI	1101.1	1109.0	10.2	6.0				
5900	KISV	4 S/F	1101.1	1106.3	7.9	30.0				
9300	KISV	2 S/F	1101.1	1106.3	7.4	29.0				
9300	KISV	29 PBI	1101.1	1108.5	10.6	7.0				
9500	POTS	4 S/F	1105.0	1106.5	3.0	16.0				
245	SVTO	8 S	1107.0E	1107.0	U	460.0			QL=2 ST=2 TYP=3	
536	ONDR	41 F	1130.0	1145.4	80.0	14.0				

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

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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	
20	245	SVTO	8 S	1135.0E	1136.0	1.00	94.0			QL=4 ST=2 TYP=3	
	204	IZHI	5 S	1148.5	1149.0	0.8	300.0	200.0			
	808	ONDR	8 S	1214.1	1214.7	1.5	30.0				
	234	POTS	8 S	1220.2	1220.4	0.4	500.0				
	9400	HUAN	21 GRF	1401.8	1417.4	39.2	7.8	3.2			
	1415	SGMR	8 S	1416.0E	1417.0	2.00	140.0			QL=4 ST=3 TYP=3	
	245	SGMR	8 S	1417.0E	1417.0	1.00	77.0			QL=2 ST=2 TYP=3	
	2695	SGMR	8 S	1417.0E	1417.0	1.00	21.0			QL=4 ST=3 TYP=3	
	610	SGMR	8 S	1417.0E	1417.0	1.00	71.0			QL=4 ST=3 TYP=3	
	1415	SVTO	8 S	1417.0E	1417.0	1.00	150.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1417.0E	1417.0	1.00	74.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	1417.0E	1417.0	U	72.0			QL=4 ST=2 TYP=3	
	9400	HUAN	3 S	1422.1	1424.6	4.1	62.2	28.4			
	8800	SGMR	8 S	1424.0E	1424.0	U	59.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1809.0E	1809.0	U	99.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1958.0E	1958.0	U	82.0			QL=2 ST=2 TYP=3	
	2800	OTTA	3 S	2034.5	2039.9	11.4	79.4	16.0			
	4995	PALE	8 S	2039.0E	2039.0	2.00	110.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2039.0E	2039.0	U	72.0			QL=4 ST=2 TYP=3	
	1415	PALE	8 S	2039.0E	2039.0	1.00	90.0			QL=4 ST=2 TYP=3	
	15400	PALE	8 S	2039.0E	2039.0	1.00	47.0			QL=2 ST=2 TYP=3	
	8800	PALE	8 S	2039.0E	2039.0	1.00	51.0			QL=4 ST=2 TYP=3	
	2695	PALE	8 S	2039.0E	2039.0	1.00	76.0			QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2039.0E	2039.0	U	56.0			QL=4 ST=2 TYP=3	
	21	260	ONDR	44 NS	1000.0E	1236.6	190.00	88.0			
		245	SVTO	44 NS	1202.0E	1203.0	31.00	54.0			QL=2 ST=2 TYP=1
		245	SGMR	44 NS	1245.0E	1300.0	45.00	70.0			QL=2 ST=2 TYP=1
		235	CUBA	44 NS	1255.0E		516.00		16.0		
280		CUBA	44 NS	1255.0E		516.00		29.0			
200		HIRA	8 S	0021.6	0021.6	0.5	160.0			SR	
500		HIRA	46 C	0441.5	0442.5	3.0	54.0			O	
204		IZHI	7 C	0709.5	0709.7	0.5	23.0	14.0			
950		GORK	2 S/F	0753.3	0753.4	0.5	6.0				
9100		GORK	20 GRF	0900.0	0956.7	150.00	13.0				
2950		GORK	20 GRF	0924.3	0937.3	58.8	5.0				
9300		KISV	2 S/F	0955.8	0956.8	1.7	6.0				
5900		KISV	23 GRF	1108.7	1116.8	23.0	8.0				
5900		KISV	2 S/F	1108.9	1109.4	1.6	6.0				
245		SVTO	8 S	1137.0E	1137.0	1.00	69.0			QL=4 ST=3 TYP=3	
536		ONDR	8 S	1242.5	1242.8	0.5	82.0				
600		HUMN	2 S/F	1331.0	1332.0	3.0	11.0	4.0			
9500		CUBA	21 GRF	1407.0U	1727.0	496.00	37.0				
9400		HUAN	1 S	1450.9	1455.3	9.1	7.5	3.6			
2800		OTTA	22 GRF	1545.7	1557.5	17.4	22.2	4.0			
6700		CUBA	21 GRF	1546.0	1552.0	80.0	11.0	5.0			
9400		HUAN	23 GRF	1546.0	1608.6	109.3	11.2	6.4			
9500		CUBA	3 S	1550.2	1557.0	12.7	29.0	14.0			
15000		CUBA	23 GRF	1551.0	1607.0	90.0	21.0	10.0		11L	
9400		HUAN	2 S/F	1554.3	1557.6	7.7	18.7	8.8			
6700		CUBA	2 S/F	1554.5	1557.8	5.6	17.0	8.0			
410		SGMR	4 S/F	1555.0E	1557.0	3.00	200.0			QL=4 ST=2 TYP=3	
245		SGMR	49 GB	1555.0E	1557.0	5.00	540.0			QL=4 ST=3 TYP=6	
4995		SGMR	4 S/F	1555.0E	1557.0	4.00	46.0			QL=4 ST=2 TYP=3	
8800		SGMR	8 S	1556.0E	1557.0	2.00	30.0			QL=4 ST=2 TYP=3	
1415		SGMR	8 S	1556.0E	1556.0	U	74.0			QL=4 ST=2 TYP=3	
610		SGMR	8 S	1556.0E	1556.0	2.00	170.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1556.0E	1557.0	2.00	28.0			QL=4 ST=2 TYP=3		
9500	CUBA	2 S/F	1735.0	1736.7	2.0	12.0	6.0				
15000	CUBA	2 S/F	1736.0	1738.2	4.3	13.0	6.0		8R		
9400	HUAN	21 GRF	1823.5	1923.2	93.8	13.1	6.2				
15000	CUBA	23 GRF	1836.0	1850.0	20.0	14.0	7.0		16R		
9500	CUBA	2 S/F	1836.0	1839.8	4.8	15.0	7.0				
9400	HUAN	3 S	1848.3	1849.8	6.0	45.0	22.6				
4995	PALE	8 S	1849.0E	1850.0	2.00	72.0			QL=4 ST=2 TYP=3		
8800	SGMR	8 S	1849.0E	1850.0	1.00	39.0			QL=4 ST=2 TYP=3		
4995	SGMR	8 S	1849.0E	1850.0	1.00	54.0			QL=4 ST=2 TYP=3		
6700	CUBA	4 S/F	1849.1	1849.9	6.6	59.0	29.0				
2800	OTTA	3 S	1849.2	1850.1	4.5	22.6	6.0				

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DECEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
21	9500	CUBA	1 S	1849.7	1850.0	2.3	45.0	22.0			
	6700	CUBA	22 GRF	1917.0	1920.0	41.0	19.0	9.0			
	2800	OTTA	3 S	1917.3	1920.8	12.1	29.0	6.0			
	9400	HUAN	2 S/F	1917.7	1920.3	5.4	16.9	7.6			
	410	PALE	8 S	1918.0E	1919.0	1.00	130.0			QL=4 ST=2 TYP=3	
	1415	SGMR	4 S/F	1918.0E	1920.0	3.00	26.0			QL=4 ST=2 TYP=3	
	410	SGMR	4 S/F	1918.0E	1919.0	7.00	100.0			QL=4 ST=3 TYP=3	
	2695	SGMR	4 S/F	1918.0E	1920.0	4.00	25.0			QL=4 ST=2 TYP=3	
	9500	CUBA	1 S	1918.0	1920.7	5.0	12.0	6.0			
	1415	SGMR	8 S	1920.0E	1920.0	U	28.0			QL=4 ST=2 TYP=3	
	2695	SGMR	8 S	1920.0E	1920.0	1.00	28.0			QL=4 ST=2 TYP=3	
	9500	CUBA	1 S	1927.2	1927.6	1.8	7.0	3.0			
	410	SGMR	8 S	1935.0E	1935.0	2.00	75.0			QL=4 ST=2 TYP=3	
	9400	HUAN	22 GRF	2035.1	2117.2U	67.5	9.4	5.2			
	22	4995	LEAR	4 S/F	2227.0E	2229.0	7.00	70.0			QL=4 ST=2 TYP=3
9400		HUAN	4 S/F	2227.2	2229.3	4.6	46.8	19.6			
22	200	HIRA	46 C	0002.6	0023.5		45.0			WR	
	200	HIRA	46 C	0002.6	0106.6		190.0			ML	
	200	HIRA	46 C	0002.6	0015.8	68.6	210.0	14.0		O	
	245	LEAR	8 S	0014.0E	0016.0	2.00	88.0			QL=2 ST=2 TYP=3	
	245	PALE	8 S	0015.0E	0016.0	1.00	110.0			QL=4 ST=2 TYP=3	
	5900	KISV	23 GRF	0630.2	0649.0	57.5	12.0				
	9300	KISV	23 GRF	0630.4	0655.4	50.2	13.0				
	5900	KISV	4 S/F	0630.6	0632.1	6.3	39.0				
	9300	KISV	2 S/F	0631.2	0632.2	4.3	25.0				
	127	TORN	45 C	0918.9	0919.7	1.7	50.0	30.0			
	127	TORN	41 F	0920.6	0929.1	11.0	140.0	2.0			
	15000	KISV	2 S/F	0923.8	0923.9	7.2	6.0				
	9400	HUAN	4 S/F	1149.7	1153.3	7.1	21.9	13.6			
	5900	KISV	2 S/F	1152.8	1153.3	5.1	24.0				
	9300	KISV	2 S/F	1152.9	1153.3	7.1	25.0				
	9500	POTS	4 S/F	1153.0	1153.4	2.0	20.0				
	3000	POTS	2 S/F	1153.5	1154.0	1.0	5.0				
	6700	CUBA	20 GRF	1304.0E	1323.0	109.00	10.0				SUNRISE
	9400	HUAN	22 GRF	1315.2	1328.0	51.2	4.0	1.8			
	9400	HUAN	21 GRF	1522.4	1601.8	101.7	15.9	8.4			
	9400	HUAN	3 S	1536.6	1538.5	3.8	79.5	38.9			
	6700	CUBA	21 GRF	1537.0	1547.0	78.0	12.0	6.0			
	8800	SGMR	8 S	1538.0E	1538.0	1.00	69.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1538.0E	1538.0	4.00	93.0				QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1538.0	1538.9	3.0	23.6	7.0			
	2800	OTTA	3 S	1642.0	1647.7	6.4	37.1	8.0			
	9400	HUAN	4 S/F	1644.5	1647.7	8.0	33.8	16.4			
	1415	SGMR	8 S	1647.0E	1647.0	1.00	23.0				QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1647.0E	1647.0	1.00	25.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1647.0E	1647.0	U	120.0				QL=4 ST=2 TYP=3
	6700	CUBA	2 S/F	1647.0	1647.8	4.1	26.0	13.0			
	610	SGMR	8 S	1649.0E	1649.0	U	140.0				QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1820.0	2046.0	230.00	21.0				SUNSET
	9400	HUAN	1 S	2000.7	2003.0	5.4	9.9	4.6			
	2800	OTTA	20 GRF	2025.5	2030.0	12.1	13.3	4.0			
	2695	PENT	4 S/F	2219.0	2233.5	32.00	115.7	35.0			
	9400	HUAN	4 S/F	2225.1	2234.7		70.5				
	9400	HUAN	4 S/F	2225.1	2233.7	13.0	66.1	36.6			
	4995	LEAR	4 S/F	2232.0E	2233.0	9.00	85.0				QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	2232.0E	2233.0	7.00	86.0				QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2232.0E	2233.0	3.00	70.0				QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2232.0E	2233.0	5.00	50.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	2233.0E	2233.0	3.00	45.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	2233.0E	2235.0	8.00	40.0				QL=4 ST=2 TYP=3
	1415	LEAR	8 S	2233.0E	2234.0	1.00	21.0				QL=4 ST=2 TYP=3
4995	PALE	4 S/F	2233.0E	2233.0	3.00	110.0				QL=4 ST=2 TYP=3	
500	HIRA	42 SER	2237.0	2253.3	18.1	23.0				O	
245	LEAR	4 S/F	2309.0E	2312.0	4.00	110.0				QL=2 ST=2 TYP=3	
410	PALE	4 S/F	2309.0E	2312.0	7.00	130.0				QL=4 ST=3 TYP=3	
245	PALE	4 S/F	2309.0E	2309.0	5.00	330.0				QL=4 ST=2 TYP=3	
500	HIRA	46 C	2309.7	2312.5	10.3	106.0	14.0			O	
1415	LEAR	4 S/F	2311.0E	2313.0	4.00	87.0				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

DECEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
22	410	LEAR	8 S	2311.0E	2312.0	1.0D	45.0			QL=2 ST=2 TYP=3
	2695	LEAR	4 S/F	2311.0E	2313.0	4.0D	94.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	2311.0E	2312.0	4.0D	110.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2311.0E	2313.0	4.0D	93.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2311.0E	2312.0	4.0D	87.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2311.0E	2313.0	4.0D	130.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2311.0E	2313.0	4.0D	99.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	2311.5	2319.8	13.9	1100.0			0
	100	HIRA	42 SER	2311.5	2314.9	16.4	1900.0			WL
	610	PALE	4 S/F	2312.0E	2313.0	3.0D	37.0			QL=4 ST=2 TYP=3
23	245	SVTO	44 NS	0633.0E	0637.0	1047.0D	110.0			QL=4 ST=1 TYP=1
	127	TORN	43 NS	0959.0	1031.6	50.0	50.0	7.0		V=1
	235	CUBA	44 NS	1255.0E		517.0D		14.0		
	280	CUBA	44 NS	1255.0E		517.0D		22.0		
	610	PALE	8 S	0038.0E	0039.0	1.0D	120.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0038.9	0039.5	1.0	3300.0			0
	1415	LEAR	8 S	0039.0E	0039.0	1.0D	37.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0039.0E	0039.0	1.0D	40.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0039.0E	0039.0	U	48.0			QL=2 ST=2 TYP=3
	4995	LEAR	8 S	0039.0E	0039.0	1.0D	61.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0039.0E	0039.0	U	43.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0042.0E	0947.0	1398.0D	250.0			QL=4 ST=1 TYP=5
	245	LEAR	8 S	0544.0E	0545.0	2.0D	45.0			QL=2 ST=2 TYP=3
	100	HIRA	46 C	0544.2		1.8	1000.0D			
	410	LEAR	8 S	0545.0E	0547.0	2.0D	57.0			QL=2 ST=2 TYP=3
	5900	KISV	2 S/F	0630.4	0631.3	6.1	22.0			
	9300	KISV	2 S/F	0630.8	0631.4	3.6	18.0			
	410	LEAR	8 S	0846.0E	0846.0	U	120.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0846.0E	0846.0	U	320.0			QL=4 ST=3 TYP=3
	650	GORK	21 GRF	0915.0	0948.0	72.3	20.0			
	950	GORK	21 GRF	0915.0	0951.0	97.5	10.0			
	9100	GORK	21 GRF	0915.5	0955.6	77.5	57.0			
	2950	GORK	21 GRF	0927.9	0955.3	40.5	9.0			
	9300	KISV	47 GB	0928.0	0947.0		1366.0			
	5900	KISV	47 GB	0928.0	0947.7		1168.0			
	9300	KISV	47 GB	0928.0	0944.9	44.0	1882.0			
	5900	KISV	47 GB	0928.0	0944.9	44.0	1186.0			
	2850	CRIM	28 PRE	0929.4	0942.4	13.0	26.0	8.0		
	15000	KISV	47 GB	0938.7	0947.1		939.0			
	15000	KISV	47 GB	0938.7	0944.8	27.3	1637.0			
	9500	POTS	45 C	0940.0	0945.0	30.0	1300.0			
	9100	GORK	4 S/F	0940.7	0944.8	14.2	1810.0			
	3013	IZMI	45 C	0941.0	0947.0	12.0	233.0			
	8800	LEAR	49 GB	0941.0E	0944.0	17.0D	1400.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0941.0E	0947.0	15.0D	850.0			QL=4 ST=2 TYP=7
	8800	SVTO	49 GB	0941.0E	1002.0	859.0D	1500.0			QL=4 ST=1 TYP=7
	4995	SVTO	49 GB	0941.0E	0947.0	859.0D	920.0			QL=4 ST=1 TYP=7
	2950	GORK	46 C	0941.0	0947.8		265.0			
	2950	GORK	46 C	0941.0	0944.9	12.6	250.0			
	650	GORK	47 GB	0941.7	0946.2	6.3	2440.0			
410	LEAR	4 S/F	0942.0E	0942.0	7.0D	470.0			QL=2 ST=2 TYP=3	
204	IZMI	45 C	0942.0	0947.0	14.0	99000.0				
2695	LEAR	4 S/F	0942.0E	0944.0	14.0D	250.0			QL=4 ST=2 TYP=5	
15400	LEAR	49 GB	0942.0E	0944.0	19.0D	1900.0			QL=4 ST=2 TYP=6	
245	LEAR	49 GB	0942.0E	0949.0	13.0D	18000.0			QL=2 ST=2 TYP=7	
15400	SVTO	49 GB	0942.0E	0944.0	858.0D	1400.0			QL=4 ST=1 TYP=6	
2695	SVTO	4 S/F	0942.0E	0947.0	858.0D	250.0			QL=4 ST=1 TYP=5	
234	POTS	45 C	0942.1	0949.6	21.4	250000.0				
200	GORK	41 F	0942.3	0950.2		8000.0				
950	GORK	4 S/F	0942.3	0945.9	8.7	200.0				
200	GORK	41 F	0942.3	0943.9	8.7	330.0				
2850	CRIM	30 PBI	0942.4	0953.0	37.0	30.0	10.0			
2850	CRIM	45 C	0942.4	0947.9		309.0				
2850	CRIM	45 C	0942.4	0944.9	10.6	301.0	103.0			
127	TORN	49 GB	0942.7	0951.0U	14.0	1900.0D	300.0			
100	GORK	41 F	0942.8	0957.6		2600.0				
100	GORK	41 F	0942.8	0944.6	18.6	550.0				
100	GORK	41 F	0942.8	0954.8		2400.0				

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

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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	113	POTS	45 C	0942.9	0955.1	31.2	1100.0				
	1415	LEAR	4 S/F	0943.0E	0946.0	9.0D	120.0			QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	0943.0E	0946.0	857.0D	140.0			QL=4 ST=1 TYP=3	
	610	SVTO	4 S/F	0943.0E	0945.0	857.0D	180.0			QL=4 ST=1 TYP=3	
	3000	POTS	45 C	0943.0	0947.5	32.0	550.0				
	600	HUMN	4 S/F	0943.4	0946.2	9.3	109.0	26.0			
	610	LEAR	4 S/F	0944.0E	0945.0	4.0D	65.0				QL=2 ST=2 TYP=3
	40	POTS	42 SER	0944.0	0958.3	17.0	4500.0				
	33	UPIC	46 C	0944.5	0945.9	2.5					
	33	UPIC	31 ABS	0947.0	0949.8	13.5					
	3013	IZMI	7 C	0959.0	1001.0	4.0	11.0				
	2850	CRIM	3 S	0959.0	1001.3	3.0	19.0	6.0			
	2950	GORK	2 S/F	0959.5	1001.4	2.5	12.0				
	15000	KISV	29 PBI	1006.0E	1006.0	24.0D	7.0				
	5900	KISV	30 PBI	1012.0E	1012.0	16.0D	13.0				
	9300	KISV	30 PBI	1012.0E	1012.0	24.0D	17.0				
	2950	GORK	20 GRF	1017.5	1024.2	7.5	6.0				
	650	GORK	1 S	1018.3	1018.6	0.4	4.0				
	650	GORK	4 S/F	1023.3	1024.2	1.6	530.0				
	5900	KISV	2 S/F	1023.5	1024.3	3.2	10.0				
	9300	KISV	2 S/F	1023.7	1024.2	3.0	11.0				
	950	GORK	3 S	1024.1	1024.2	0.4	10.0				
	9400	HUAN	3 S	1335.1	1335.9	4.5	53.5	28.6			
15000	CUBA	1 S	1335.5	1336.0	3.1	40.0	20.0			POL OFF	
9400	HUAN	20 GRF	1411.2	1423.8	37.7	8.6	4.2				
6700	CUBA	23 GRF	1912.0	1925.0	31.0	6.0	3.0				
6700	CUBA	20 GRF	1953.0	2018.0	60.0	11.0	5.0				
2800	OTTA	20 GRF	2003.0	2005.5	42.0	10.5	3.0				
245	SGMR	8 S	2021.0E	2022.0	1.0D	68.0				QL=4 ST=2 TYP=3	
24	100	GORK	44 NS	0621.0E		310.0D		5.0			
	200	GORK	44 NS	0630.0E		301.0D		5.0			
	204	IZMI	43 NS	0700.0		300.0	20.0				
	127	TORN	44 NS	0700.0E		440.0D		75.0		V=2	
	245	SGMR	44 NS	1315.0E	1321.0	645.0D	180.0				QL=4 ST=1 TYP=1
	235	CUBA	44 NS	1600.0E		331.0D		26.0			
	280	CUBA	44 NS	1600.0E		331.0D		33.0			
	245	SGMR	44 NS	1708.0E	2022.0	221.0D	550.0				QL=4 ST=2 TYP=1
	245	PALE	44 NS	1725.0E	2022.0	404.0D	400.0				QL=4 ST=2 TYP=1
	2840	PEKG	1 S	0144.0	0147.7	10.0	12.1				
	500	HIRA	46 C	0254.5	0256.0	3.0	33.0				0
	650	GORK	2 S/F	0632.3	0632.3	0.8	8.0				
	950	GORK	2 S/F	0632.7	0633.4	1.2	4.0				
	100	GORK	46 C	0638.7	0641.4		1600.0				
	100	GORK	46 C	0638.7	0639.8	6.0	1300.0				
	650	GORK	41 F	0639.0	0641.1		12.0				
	650	GORK	41 F	0639.0	0639.4	3.7	8.0				
	950	GORK	4 S/F	0640.1	0641.5	2.7	27.0				
	9100	GORK	22 GRF	0648.0U	0818.0	240.0D	10.0				
	9300	KISV	2 S/F	0745.5	0747.4	6.5	9.0				
	5900	KISV	2 S/F	0746.7	0747.4	5.5	9.0				
	15000	KISV	2 S/F	0746.8	0747.4	3.2	10.0				
	2950	GORK	20 GRF	0804.4	0809.2	13.8	3.0				
950	GORK	1 S	0811.3	0811.7	0.9	6.0					
204	IZMI	42 SER	0811.7	0815.0	6.0	550.0					
650	GORK	2 S/F	0814.3	0814.8	1.1	5.0					
9300	KISV	2 S/F	0940.9	0941.4	2.1	6.0					
204	IZMI	42 SER	1019.0	1022.0	10.0	700.0					
9500	POTS	40 F	1320.0	1323.0	12.0	29.0					
3000	POTS	40 F	1320.0	1323.5	9.0	27.0					
600	HUMN	1 S	1321.3	1322.0	1.2	7.0	3.0				
2695	SGMR	8 S	1322.0E	1323.0	1.0D	35.0				QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1322.0E	1323.0	1.0D	58.0				QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1322.0E	1323.0	3.0D	64.0				QL=4 ST=2 TYP=3	
2695	SVTO	4 S/F	1322.0E	1323.0	638.0D	40.0				QL=4 ST=1 TYP=3	
2800	OTTA	3 S	1532.0	1537.0	20.2	275.2	55.0				
4995	SGMR	49 GB	1533.0E	1537.0	10.0D	660.0				QL=4 ST=2 TYP=7	
8800	SGMR	49 GB	1533.0E	1537.0	10.0D	2100.0				QL=2 ST=2 TYP=7	
1415	SGMR	49 GB	1534.0E	1536.0	7.0D	190.0				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

DECEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
24	610	SGMR	49 GB	1534.0E	1536.0	7.00	110.0			QL=4 ST=2 TYP=7
	410	SGMR	49 GB	1534.0E	1535.0	6.00	120.0			QL=4 ST=2 TYP=7
	2695	SGMR	49 GB	1534.0E	1536.0	7.00	310.0			QL=4 ST=2 TYP=7
	15400	SGMR	49 GB	1534.0E	1535.0	15.00	3500.0			QL=2 ST=2 TYP=7
	245	SGMR	49 GB	1536.0E	1539.0	6.00	2600.0			QL=4 ST=2 TYP=7
	9500	CUBA	21 GRF	1652.0	1841.0	276.0	30.0	15.0		
	9500	CUBA	1 S	1930.8	1931.4	2.3	27.0	13.0		
	245	PALE	8 S	2000.0E	2000.0	1.00	140.0			QL=2 ST=2 TYP=3
	200	HIRA	42 SER	2147.0E	2249.5	100.00	730.0			SL
	2695	LEAR	4 S/F	2248.0E	2248.0	4.00	99.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	2248.0E	2248.0	1.00	26.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	2248.0E	2249.0	2.00	35.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	2248.0E	2248.0	3.00	130.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	2248.0E	2248.0	1.00	91.0			QL=4 ST=2 TYP=3
	25	200	GORK	43 NS	0706.4		264.60		5.0	
127		TORN	43 NS	0819.7		360.0		8.0		V=1
235		CUBA	44 NS	1250.0E		497.00		15.0		
280		CUBA	44 NS	1250.0E		497.00		24.0		
245		SGMR	44 NS	1913.0E	1914.0	62.00	150.0			QL=4 ST=2 TYP=1
200		HIRA	44 NS	2146.0E	0340.0	580.00	21.0	7.0		ML
245		LEAR	4 S/F	0001.0E	0003.0	3.00	100.0			QL=2 ST=2 TYP=3
100		HIRA	42 SER	0006.4	0011.7	7.4	1000.0			
245		LEAR	4 S/F	0008.0E	0011.0	5.00	310.0			QL=2 ST=2 TYP=3
200		HIRA	42 SER	0008.8	0011.9	4.9	460.0			SL
245		PALE	8 S	0009.0E	0009.0	U	83.0			QL=2 ST=2 TYP=3
245		PALE	8 S	0011.0E	0011.0	1.00	490.0			QL=2 ST=2 TYP=3
245		LEAR	4 S/F	0047.0E	0049.0	6.00	360.0			QL=2 ST=2 TYP=3
410		LEAR	4 S/F	0047.0E	0052.0	6.00	73.0			QL=2 ST=2 TYP=3
100		HIRA	41 F	0047.5	0048.8	13.2	630.0			
245		PALE	49 GB	0048.0E	0049.0	2.00	520.0			QL=4 ST=2 TYP=6
200		HIRA	41 F	0048.5	0050.8	4.2	68.0			ML
500		HIRA	41 F	0049.0	0050.0	4.0	24.0			WL
245		PALE	8 S	0051.0E	0051.0	1.00	60.0			QL=4 ST=2 TYP=3
500		HIRA	41 F	0147.0	0148.8	20.0	15.0			WL
100		HIRA	41 F	0234.6		7.9	1000.00			
245		LEAR	8 S	0235.0E	0235.0	2.00	320.0			QL=2 ST=2 TYP=3
245		PALE	8 S	0235.0E	0235.0	2.00	460.0			QL=4 ST=2 TYP=3
200		HIRA	41 F	0235.0	0235.4	7.3	1300.0			ML
100		HIRA	46 C	0250.6	0251.6	2.1	670.0			
200		HIRA	42 SER	0251.2	0253.2	6.8	110.0			ML
100		HIRA	42 SER	0504.0	0531.0	31.7	905.0			
200		HIRA	42 SER	0508.3	0513.9	26.4	160.0			WL
100		HIRA	42 SER	0603.3	0604.6	45.0	980.0			
245		LEAR	8 S	0604.0E	0604.0	1.00	130.0			QL=2 ST=2 TYP=3
200		HIRA	42 SER	0604.4	0604.6	33.8	44.0			ML
5900		KISV	2 S/F	0628.6	0630.3	3.5	4.0			
100		GORK	41 F	0710.1	0710.4	5.6	385.0			
100		GORK	41 F	0710.1	0714.9		385.0			
650		GORK	1 S	0710.2	0711.1	1.8	3.0			
950	GORK	1 S	0710.2	0711.1	1.8	3.0				
200	GORK	41 F	0710.2	0710.5	5.3	25.00				
200	GORK	41 F	0710.2	0714.6		25.00				
5900	KISV	20 GRF	0710.4	0711.6	10.8	4.0				
5900	KISV	24 R	0736.9	0738.0		3.0				
9300	KISV	24 R	0737.4	0738.1		4.0				
2950	GORK	20 GRF	0756.1	0807.7	19.1	6.0				
204	IZMI	45 C	0811.7	0820.0	13.0	9900.0				
410	LEAR	8 S	0819.0E	0820.0	1.00	91.0			QL=2 ST=2 TYP=3	
245	LEAR	49 GB	0819.0E	0820.0	5.00	1300.0			QL=2 ST=2 TYP=6	
410	SVTO	8 S	0819.0E	0820.0	1.00	200.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0819.0E	0820.0	1.00	1800.0			QL=2 ST=2 TYP=6	
200	GORK	41 F	0819.5	0820.0	9.3	200.0				
200	GORK	41 F	0819.5	0828.0		830.0				
100	GORK	41 F	0819.5	0820.1	9.3	800.0				
200	GORK	41 F	0819.5	0821.4		670.0				
100	GORK	41 F	0819.5	0821.6		910.0				
100	GORK	41 F	0819.5	0827.9		740.0				
127	TORN	47 GB	0819.7	0821.0U	4.0	660.00	250.0			

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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
25	650	GORK	8 S	0820.0	0820.1	0.2	9.0			
	950	GORK	8 S	0820.0	0820.1	0.2	12.0			
	245	LEAR	4 S/F	0827.0E	0827.0	3.00	75.0			QL=2 ST=2 TYP=3
	127	TORN	42 SER	0827.5	0909.3	63.0	2400.0	15.0		
	5900	KISV	2 S/F	0838.2	0838.5	2.2	2.0			
	234	POTS	42 SER	0903.0	0928.7	27.0	650.0			
	113	POTS	42 SER	0903.1	0928.7	28.9	1300.0			
	650	GORK	1 S	0907.5	0908.0	1.1	5.0			
	950	GORK	1 S	0907.5	0907.9	1.1	3.0			
	245	LEAR	8 S	0909.0E	0909.0	1.00	91.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0909.0E	0909.0	1.00	160.0			QL=2 ST=2 TYP=3
	100	GORK	4 S/F	0927.0	0928.4	2.7	5800.0			
	650	GORK	23 GRF	0927.3	0940.5	26.2	5.0			
	950	GORK	23 GRF	0927.4	0939.0	17.8	4.0			
	4995	LEAR	8 S	0928.0E	0928.0	1.00	30.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0928.0E	0928.0	1.00	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0928.0E	0928.0	U	250.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0928.0E	0928.0	1.00	20.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0928.0E	0928.0	1.00	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0928.0E	0928.0	U	420.0			QL=2 ST=2 TYP=3
	2950	GORK	4 S/F	0928.1	0928.9	1.4	22.0			
	3013	IZMI	4 S/F	0928.2	0928.9	1.5	19.0			
	5900	KISV	29 PBI	0928.3	0931.0	21.0	4.0			
	5900	KISV	4 S/F	0928.3	0928.9	2.7	53.0			
	2850	CRIM	3 S	0928.4	0929.0	1.8	26.5	8.0		
	650	GORK	4 S/F	0928.4	0929.0	1.1	50.0			
	204	IZMI	41 F	0928.4	0928.9	1.8	5300.0			
	200	GORK	4 S/F	0928.5U	0928.6	0.60	670.0			
	950	GORK	4 S/F	0928.5	0928.9	1.0	175.0			
	9300	KISV	2 S/F	0928.5	0928.9	6.1	14.0			
	15000	KISV	2 S/F	0928.5	0928.9	4.1	8.0			
	2950	GORK	29 PBI	0929.5	0929.5	21.0	6.0			
	30	POTS	41 F	0930.7	0931.1	10.5	2000.0U			
	127	TORN	4 S/F	0937.2	0938.6	2.7	6900.0	650.0		
	1415	LEAR	8 S	0938.0E	0938.0	1.00	73.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0938.0E	0938.0	1.00	90.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	1028.6	1029.3	3.0	4.0			
	2950	GORK	1 S	1051.4	1052.6	2.0	7.0			
	2850	CRIM	1 S	1051.5	1052.5	1.5	10.4	3.0		
	950	GORK	2 S/F	1052.2	1052.6	0.8	10.0			
	204	IZMI	41 F	1105.0	1105.5	4.0	200.0			
	204	IZMI	41 F	1129.0	1129.5	14.0	59.0			
	245	SGMR	8 S	1338.0E	1339.0	1.00	64.0			QL=4 ST=2 TYP=3
	235	CUBA	7 C	1339.0	1340.0	3.0	25.0			
	280	CUBA	7 C	1339.0	1340.0	3.0	28.0			
	410	SGMR	4 S/F	1400.0E	1401.0	4.00	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1401.0E	1401.0	U	31.0			QL=4 ST=2 TYP=3
	235	CUBA	7 C	1433.0	1436.0	7.0	19.0			
	280	CUBA	7 C	1433.0	1436.0	7.0	25.0			
	245	SGMR	8 S	1532.0E	1532.0	1.00	150.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1537.0E	1537.0	1.00	70.0			QL=4 ST=2 TYP=3	
9400	HUAN	20 GRF	1601.8	1618.0	36.8	19.7	8.6			
6700	CUBA	23 GRF	1611.0	1621.0	38.0	18.0	9.0			
2800	OTTA	20 GRF	1615.0	1618.5	31.0	11.4	4.0			
6700	CUBA	21 GRF	1725.0	1734.0	31.0	3.0	1.0			
15000	CUBA	23 GRF	1726.0	1730.0	59.0	23.0	11.0		15R	
6700	CUBA	1 S	1728.2	1729.5	3.9	4.0	2.0			
9500	CUBA	2 S/F	1741.8	1742.1	1.6	16.0	8.0			
6700	CUBA	40 F	1742.0	1742.0	1.0	11.0	5.0			
9500	CUBA	21 GRF	1745.0	1826.0	90.0	17.0	8.0			
9500	CUBA	2 S/F	1750.8	1752.1	2.3	21.0	10.0			
6700	CUBA	40 F	1751.0	1752.0	2.0	15.0	7.0			
245	SGMR	4 S/F	1905.0E	1908.0	3.00	63.0			QL=4 ST=2 TYP=3	
15000	CUBA	40 F	2021.0	2052.0	34.0	76.0	38.0		11R	
6700	CUBA	40 F	2050.0	2052.0	9.0	21.0	10.0			
2695	PENT	3 S	2157.0	2159.4	7.2	20.3	6.0			
245	LEAR	8 S	2219.0E	2220.0	1.00	240.0			QL=2 ST=2 TYP=3	
245	LEAR	8 S	2247.0E	2248.0	2.00	84.0			QL=2 ST=2 TYP=3	
100	HIRA	42 SER	2307.3	2314.5	19.8	170.0				

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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
25	[	200 HIRA	42 SER	2309.9	2314.5	33.0	80.0			ML
		500 HIRA	42 SER	2313.9	2314.5	10.5	52.0			WL
		245 LEAR	8 S	2314.0E	2314.0	2.00	100.0			QL=2 ST=2 TYP=3
26	[	100 GORK	44 NS	0641.0E		290.00		5.0		
		204 IZMI	43 NS	0700.0		300.0	20.0			
		127 TORN	43 NS	0719.0		420.0		20.0		V=1
		280 CUBA	44 NS	1740.0E		225.00		27.0		
		235 CUBA	44 NS	1740.0E		225.00		25.0		
		245 PALE	44 NS	1820.0E	1824.0	230.00	86.0			QL=4 ST=2 TYP=1
		100 HIRA	44 NS	2147.0E	0230.0	580.00	80.0	39.0		
		500 HIRA	41 F	0014.7	0016.5	4.7	23.0			
		200 HIRA	42 SER	0015.8	0019.0	20.6	154.0			WL
		100 HIRA	41 F	0016.5	0017.2	5.3	160.0			
		245 LEAR	8 S	0019.0E	0019.0	U	76.0			QL=2 ST=2 TYP=3
		410 LEAR	8 S	0019.0E	0019.0	U	44.0			QL=2 ST=2 TYP=3
		245 PALE	8 S	0019.0E	0019.0	U	85.0			QL=4 ST=2 TYP=3
		410 PALE	8 S	0019.0E	0019.0	U	110.0			QL=4 ST=2 TYP=3
		245 LEAR	8 S	0111.0E	0111.0	U	65.0			QL=2 ST=2 TYP=3
		245 PALE	8 S	0111.0E	0111.0	U	95.0			QL=4 ST=2 TYP=3
		100 HIRA	42 SER	0145.7	0150.6	64.0	1000.00			
		245 LEAR	8 S	0149.0E	0150.0	2.00	54.0			QL=2 ST=2 TYP=3
		245 PALE	8 S	0150.0E	0150.0	1.00	77.0			QL=4 ST=2 TYP=3
		200 HIRA	46 C	0150.2	0150.2	1.3	270.0			ML
		500 HIRA	42 SER	0150.4	0150.9	16.7	18.0			WL
		100 HIRA	42 SER	0324.4	0327.3	35.6	840.0			
		100 HIRA	41 F	0502.6	0511.2	14.5	1000.00			
		245 LEAR	8 S	0509.0E	0510.0	1.00	95.0			QL=2 ST=2 TYP=3
		500 HIRA	42 SER	0509.6	0513.9	4.7	32.0			WL
		200 HIRA	41 F	0509.6	0509.9	7.9	230.0			0
		2840 PEKG	20 GRF	0556.0	0601.8	28.0	10.8			
		5900 KISV	45 C	0600.4	0602.3		4.0			
		5900 KISV	45 C	0600.4	0601.4	8.4	7.0			
		9300 KISV	2 S/F	0649.5	0649.9	6.9	15.0			
		5900 KISV	2 S/F	0649.5	0649.9	7.5	13.0			
		15000 KISV	45 C	0649.6	0650.4		11.0			
		15000 KISV	45 C	0649.6	0649.7	5.0	13.0			
		5900 KISV	2 S/F	0731.8	0731.9	1.9	3.0			
		100 GORK	41 F	0742.8	0809.3		360.0			
		100 GORK	41 F	0742.8	0801.5	33.9	40.0			
		204 IZMI	41 F	0814.0	0815.0	1.0	500.0			
		5900 KISV	22 GRF	0827.0	0830.5	15.0	5.0			
		245 LEAR	8 S	0828.0E	0828.0	1.00	61.0			QL=2 ST=2 TYP=3
		234 POTS	4 S/F	0828.3	0828.7	0.5	250.0			
		204 IZMI	5 S	0828.5	0828.7	0.8	75.0		65.0	
		100 GORK	46 C	0853.7	0855.1		720.0			
		100 GORK	46 C	0853.7	0854.8	4.4	360.0			
		5900 KISV	2 S/F	1018.5	1019.5	5.3	3.0			
		100 GORK	41 F	1019.3	1040.5		1600.0			
		100 GORK	41 F	1019.3	1019.8	21.6	960.0			
		30 POTS	4 S/F	1038.9	1039.6	2.6	15000.00			
204 IZMI	41 F	1039.0	1040.0	2.0	520.0					
234 POTS	4 S/F	1039.0	1040.0	1.7	250.0					
245 SVTO	8 S	1039.0E	1039.0	1.00	73.0			QL=4 ST=2 TYP=3		
113 POTS	4 S/F	1039.2	1040.6	2.8	250.0					
127 TORN	4 S/F	1039.3	1040.4	1.5	900.0		300.0			
5900 KISV	20 GRF	1056.5	1124.6	51.0	14.0					
9500 POTS	20 GRF	1100.00	1129.0	60.00	28.0					
9300 KISV	20 GRF	1110.4	1125.7	37.3	25.0					
3000 POTS	4 S/F	1134.0	1134.4	1.0	9.0					
6700 CUBA	21 GRF	1307.0E	1411.0	253.00	24.0			SUNRISE		
9500 POTS	4 S/F	1327.0	1328.5	3.0	14.0					
3000 POTS	4 S/F	1327.00	1328.5	3.00	7.0					
6700 CUBA	46 C	1357.5	1359.0	260.0	54.0					
2800 OTTA	3 S	1357.8	1400.3	4.5	245.4		50.0			
2695 SGMR	4 S/F	1358.0E	1400.0	4.00	260.0			QL=4 ST=2 TYP=3		
4995 SGMR	4 S/F	1358.0E	1400.0	5.00	250.0			QL=4 ST=2 TYP=3		
15400 SGMR	4 S/F	1358.0E	1400.0	6.00	440.0			QL=4 ST=2 TYP=3		
8800 SGMR	4 S/F	1358.0E	1400.0	6.00	290.0			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		
26	4995	SVTO	4 S/F	1358.0E	1400.0	7.00	270.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1358.0E	1400.0	8.00	300.0			QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	1358.0E	1400.0	7.00	380.0			QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	1358.0E	1400.0	4.00	270.0			QL=4 ST=2 TYP=3
	15000	CUBA	47 GB	1358.1	1404.4	11.3	621.0			37L
	1415	SGMR	8 S	1359.0E	1359.0	2.00	210.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1359.0E	1359.0	2.00	210.0			QL=4 ST=2 TYP=3
	2800	OTTA	29 PBI	1402.3	1402.3	15.3	26.8	13.0		
	15000	CUBA	29 PBI	1409.4	1610.0	16.5	24.0	12.0		00R
	6700	CUBA	40 F	1609.0	1610.0	2.0	7.0	3.0		
	15000	CUBA	23 GRF	1718.0	1733.0	21.0	35.0	17.0		6R
	6700	CUBA	40 F	1732.0	1734.0	2.0	5.0	2.0		
	410	PALE	4 S/F	2049.0E	2052.0	4.00	120.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	2050.0E	2050.0	3.00	210.0			QL=2 ST=2 TYP=3
	200	HIRA	24 R	2147.0E	2530.0	580.00	30.0	19.0		ML
27	100	GORK	44 NS	0600.0E		330.00		5.0		
	200	GORK	43 NS	0606.0		324.00		5.0		
	204	I2MI	43 NS	0700.0		300.0	20.0			
	127	TORN	43 NS	0706.0		434.0		20.0		V=2
	235	CUBA	44 NS	1253.0E		517.00		14.0		
	280	CUBA	44 NS	1253.0E		517.00		22.0		
	2840	PEKG	1 S	0044.0	0045.0	3.0	16.6			
	610	LEAR	8 S	0217.0E	0218.0	1.00	84.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	0217.0E	0218.0	1.00	210.0			QL=4 ST=2 TYP=3
	500	HIRA	45 C	0217.5	0218.2	1.1	297.0			SL
	113	POTS	4 S/F	0712.9	0713.1	1.2	1100.0			
	245	SVTO	8 S	1044.0E	1044.0	U	120.0			QL=4 ST=2 TYP=3
	260	ONDR	8 S	1103.3	1103.5	0.4	29.0			
	260	ONDR	41 F	1220.0	1249.7	50.0	20.0			
	9500	CUBA	20 GRF	1435.0	1745.0	434.0	29.0	14.0		
6700	CUBA	20 GRF	1743.0	1745.0	39.0	13.0	6.0			
2800	OTTA	20 GRF	1744.0	1745.5	21.0	8.5	2.0			
9400	HUAN	20 GRF	1835.0	1855.6	61.2	3.8	1.6			
28	100	GORK	44 NS	0601.0E		329.00		5.0		
	200	GORK	43 NS	0604.0		326.00		5.0		
	127	TORN	43 NS	0746.0		310.0		5.0		V=0
	9300	KISV	46 C	0619.1	0621.0		12.0			
	9300	KISV	46 C	0619.1	0620.3	2.5	15.0			
	9300	KISV	46 C	0619.1	0619.9		8.0			
	200	GORK	4 S/F	0637.8	0638.3	1.0	450.0			
	100	GORK	4 S/F	0637.8	0638.3	1.0	1300.0			
	2840	PEKG	5 S	0731.0	0733.1	9.0	26.2			
	2950	GORK	3 S	0731.2	0733.4	6.6	22.0			
	5900	KISV	20 GRF	0731.6	0733.4	16.0	15.0			
	3013	I2MI	5 S	0732.0	0733.2	2.0	11.0	5.0		
	2850	CRIM	3 S	0732.2	0733.6	2.0	39.0	10.0		
	9300	KISV	20 GRF	0732.4	0734.0	34.5	8.0			
	204	I2MI	42 SER	0741.0	0756.5	19.0	22000.0			
	100	GORK	41 F	0749.0	0750.5	8.3	120.0			
	100	GORK	41 F	0749.0	0756.5		11800.0			
	200	GORK	41 F	0750.0	0756.5		5300.0			
	200	GORK	41 F	0750.0	0750.6	7.0	150.0			
	234	POTS	8 S	0755.9	0756.3	1.4	5500.0			
245	LEAR	8 S	0756.0E	0756.0	U	290.0			QL=2 ST=2 TYP=3	
113	POTS	4 S/F	0756.0	0756.3	1.2	5500.00				
30	POTS	8 S	0756.5	0756.6	0.4	6000.00				
33	UPIC	8 S	0756.5	0756.7	0.4					
245	SVTO	8 S	0822.0E	0822.0	U	69.0			QL=4 ST=2 TYP=3	
260	ONDR	8 S	1030.0	1030.1	0.2	14.0				
234	POTS	41 F	1356.4	1356.8	1.2	150.0				
6700	CUBA	2 S/F	1406.2	1406.4	0.9	7.0	3.0			
9400	HUAN	1 S	1540.8	1545.2	8.0	5.5	2.8			
6700	CUBA	2 S/F	1542.3	1543.2	3.7	9.0	4.0			
9400	HUAN	22 GRF	1724.5	1749.9	50.9	11.0	4.6			
2800	OTTA	20 GRF	1736.5	1738.0	97.0	17.8	4.0			
29	245	PALE	44 NS	2128.0E	2141.0	172.00	150.0			QL=4 ST=2 TYP=1

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

DECEMBER 1990

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)		
29	200	HIRA	44 NS	2147.0E	2233.0	520.0D	41.0	12.0		ML
	260	ONDR	41 F	1000.0	1010.1	175.0	198.0			
	536	ONDR	7 C	1007.0	1009.7	2.7	159.0			
	245	LEAR	8 S	1009.0E	1009.0	1.0D	180.0			QL=2 ST=3 TYP=3
	245	SVTO	8 S	1009.0E	1009.0	1.0D	240.0			QL=4 ST=2 TYP=3
	234	POTS	4 S/F	1009.6	1009.7	1.7	150.0			
	6700	CUBA	21 GRF	1429.0E	1430.0	88.0D	9.0			
	245	SGMR	8 S	1910.0E	1910.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2121.0E	2121.0	U	76.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2125.0E	2125.0	U	120.0			QL=4 ST=3 TYP=3
30	245	PALE	44 NS	0038.0E	0309.0	183.0D	150.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0941.0		250.0		8.0		V=1
	235	CUBA	44 NS	1340.0E		440.0D		15.0		
	280	CUBA	44 NS	1340.0E		440.0D		23.0		
	245	LEAR	8 S	0030.0E	0031.0	1.0D	63.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0031.0E	0031.0	U	92.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0100.0E	0100.0	U	80.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0102.0E	0103.0	1.0D	52.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0120.0E	0120.0	U	82.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0150.0E	0150.0	1.0D	62.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0309.0E	0309.0	1.0D	150.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0417.0E	0417.0	U	110.0			QL=2 ST=2 TYP=3
	500	HIRA	41 F	0456.5	0458.0	7.5	22.0			0
	2840	PEKG	45 C	0457.0	0459.6	8.0	10.8			
	610	LEAR	4 S/F	0501.0E	0504.0	3.0D	69.0			QL=2 ST=2 TYP=5
	610	LEAR	4 S/F	0619.0E	0621.0	6.0D	220.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0623.0E	0623.0	1.0D	71.0			QL=2 ST=2 TYP=3
	3013	IZMI	1 S	0743.6	0744.1	1.0	10.0		5.0	
	610	LEAR	8 S	0843.0E	0843.0	1.0D	250.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0843.0E	0843.0	1.0D	470.0			QL=2 ST=2 TYP=3
	15000	KISV	45 C	0843.1	0844.2	3.6	13.0			
	15000	KISV	45 C	0843.1	0843.8		11.0			
	9100	GORK	1 S	0843.3	0844.1	1.1	10.0			
	5900	KISV	45 C	0843.4	0844.1	3.5	5.0			
	5900	KISV	45 C	0843.4	0843.8		4.0			
	2850	CRIM	1 S	0843.5	0844.1	1.2	10.8		3.0	
	600	HUMN	1 S	0843.5	0843.7	1.0	53.0		20.0	
	650	GORK	4 S/F	0843.5	0843.7U	1.0	145.0			
	9300	KISV	2 S/F	0843.6	0844.2	3.3	12.0			
	950	GORK	4 S/F	0843.6	0843.8	0.9	35.0			
	2950	GORK	1 S	0843.7	0844.1	0.5	9.0			
	3000	POTS	4 S/F	0920.0	0922.5	10.0	15.0			
	5900	KISV	23 GRF	0920.4	1012.0	63.6	7.0			
	9300	KISV	23 GRF	0920.4	0949.2	41.8	7.0			
	5900	KISV	2 S/F	0920.6	0922.2	6.1	19.0			
	9100	GORK	1 S	0920.8	0921.7	4.0	8.0			
	9300	KISV	2 S/F	0920.9	0921.8	4.6	12.0			
	2950	GORK	22 GRF	0921.0	0922.2	35.9	9.0			
	9500	POTS	40 F	0921.0	0922.5	8.0	8.0			
	600	HUMN	42 SER	0940.5	1112.5	109.0	50.0			
3000	POTS	1 S	0949.0	0949.2	1.0	6.0				
9500	POTS	1 S	0949.0	0949.3U	1.0	6.0				
650	GORK	4 S/F	0956.3	0956.4	0.8	85.0				
950	GORK	8 S	0956.4	0956.5	0.2	6.0				
3000	POTS	1 S	0956.4U	0956.8	1.6D	7.0				
536	ONDR	41 F	1030.0	1032.4	85.0	215.0				
260	ONDR	40 F	1035.0	1143.7	140.0	57.0				
9300	KISV	23 GRF	1036.0	1043.8	12.9	17.0				
5900	KISV	23 GRF	1036.7	1043.7	13.0	13.0				
15400	SVTO	4 S/F	1040.0E	1041.0	3.0D	150.0				
8800	SVTO	8 S	1040.0E	1041.0	2.0D	87.0				
5900	KISV	4 S/F	1040.0	1041.5	3.3	58.0				
9100	GORK	46 C	1040.4	1041.3	9.2	107.0				
9100	GORK	46 C	1040.4	1045.7		20.0				
650	GORK	4 S/F	1040.5	1041.5	2.5	75.0				
3013	IZMI	5 S	1040.5	1041.5	2.0	17.0		8.0		
9300	KISV	4 S/F	1040.5	1041.5	3.3	154.0				
2950	GORK	4 S/F	1040.6	1041.5	3.3	29.0				

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

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DECEMBER 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
30	950	GORK	46 C	1040.6	1041.6	2.6	60.0			
	950	GORK	46 C	1040.6	1042.7		23.0			
	15000	KISV	4 S/F	1041.5E	1041.5	7.50	195.0			
	808	ONDR	46 C	1044.7	1045.4	4.5	193.0			
	610	SVTO	8 S	1112.0E	1112.0	U	390.0			QL=4 ST=3 TYP=3
	9300	KISV	2 S/F	1117.2	1118.2	3.5	8.0			
	5900	KISV	2 S/F	1117.2	1118.2	3.4	5.0			
	808	ONDR	8 S	1143.5	1145.0	9.5	236.0			
	5900	KISV	4 S/F	1143.5	1145.2	5.0	153.0			
	5900	KISV	29 PBI	1143.5	1148.5	10.5	16.0			
	9300	KISV	4 S/F	1143.7	1145.0U	9.6	103.00			
	15000	KISV	4 S/F	1143.7	1144.7	6.6	473.0			
	536	ONDR	49 GB	1143.8	1145.7	14.0	78.0			
	600	HUMN	4 S/F	1143.9	1145.5	12.0	76.0	14.0		
	1415	SVTO	4 S/F	1144.0E	1145.0	4.00	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1144.0E	1145.0	4.00	170.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1144.0E	1145.0	5.00	290.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1144.0E	1145.0	4.00	420.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1144.0E	1145.0	3.00	140.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1144.0E	1145.0	4.00	330.0			QL=4 ST=2 TYP=3
	3000	POTS	45 C	1144.0	1145.3	16.0	650.0			
	9500	POTS	4 S/F	1144.0	1144.6	11.0	190.0			
	3013	IZMI	7 C	1144.2	1145.0	4.0	177.0			
	204	IZMI	5 S	1147.5	1149.0	3.0	121.0	100.0		
	3000	POTS	40 F	1207.0U	1209.5	12.0U	14.0			
	9400	HUAN	1 S	1248.7	1250.5	7.1	7.9	3.8		
	610	SGMR	8 S	1250.0E	1250.0	U	140.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1250.0	1250.1	0.5	45.0	20.0		
	9500	POTS	40 F	1250.0	1252.3	5.0	14.0			
	808	ONDR	42 SER	1250.0	1250.5	4.0	190.0			
	3000	POTS	42 SER	1250.0U	1251.6	3.00	12.0			
	9400	HUAN	45 C	1311.0	1318.3	13.3	345.4	126.3		
	600	HUMN	41 F	1312.0	1317.0	6.5	33.0			
	410	SGMR	49 GB	1312.0E	1318.0	6.00	220.0			QL=4 ST=2 TYP=6
	610	SGMR	8 S	1312.0E	1312.0	U	240.0			QL=4 ST=2 TYP=3
	113	POTS	42 SER	1316.2	1322.5	8.8	150.0			
	1415	SGMR	4 S/F	1317.0E	1318.0	6.00	270.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1317.0E	1318.0	3.00	300.0			QL=2 ST=2 TYP=3
	610	SVTO	4 S/F	1317.0E	1318.0	3.00	360.0			QL=4 ST=2 TYP=3
	234	POTS	4 S/F	1317.0	1323.7	7.8	3000.0			
	2695	SGMR	8 S	1318.0E	1319.0	2.00	190.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1318.0E	1318.0	1.00	190.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1318.0E	1318.0	5.00	930.0			QL=2 ST=2 TYP=6
	410	SGMR	49 GB	1318.0E	1318.0	1.00	1100.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1318.0E	1318.0	5.00	730.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	1318.0E	1318.0	1.00	660.0			QL=4 ST=2 TYP=6
	1415	SVTO	4 S/F	1318.0E	1318.0	3.00	270.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1318.0E	1318.0	1.00	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1318.0E	1318.0	3.00	240.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1318.0E	1318.0	3.00	490.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1318.0E	1319.0	2.00	230.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1318.0E	1318.0	642.00	120.0			QL=4 ST=1 TYP=3
	9500	POTS	4 S/F	1318.0	1318.3	9.0	270.0			
	600	HUMN	2 S/F	1318.2	1318.8	6.4	156.0	21.0		
	127	TORN	42 SER	1318.8	1323.0	5.3	1100.0	30.0		
3000	POTS	4 S/F	1319.0U	1320.0	8.00	190.0				
33	UPTC	4 S/F	1320.2	1320.5	0.6					
9400	HUAN	30 PBI	1324.3	1324.3	68.9	6.9	2.8			
610	SGMR	4 S/F	1325.0E	1326.0	4.00	230.0			QL=2 ST=2 TYP=3	
610	SVTO	4 S/F	1325.0E	1327.0	3.00	310.0			QL=4 ST=2 TYP=3	
600	HUMN	46 C	1325.0	1328.0	37.0	108.0	10.0			
610	SVTO	4 S/F	1336.0E	1339.0	7.00	78.0			QL=2 ST=2 TYP=3	
610	SGMR	20 GRF	1337.0E	1339.0	5.00	52.0			QL=4 ST=2 TYP=2	
9400	HUAN	2 S/F	1350.4	1353.3	7.2	3.9	1.6			
9400	HUAN	2 S/F	1401.0	1405.5	8.6	5.9	2.6			
610	SGMR	8 S	1414.0E	1414.0	U	85.0			QL=4 ST=2 TYP=3	
600	HUMN	2 S/F	1414.3	1414.5	2.0	48.0	7.0			
610	SGMR	8 S	1453.0E	1453.0	1.00	50.0			QL=4 ST=2 TYP=3	
9400	HUAN	4 S/F	1511.0	1512.4	7.8	35.5	29.8			

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

DECEMBER 1990

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	9400 HUAN	4 S/F	1511.0	1514.5		51.3			
	9400 HUAN	4 S/F	1511.0	1513.6		61.2			
	9400 HUAN	4 S/F	1511.0	1515.8		55.2			
	610 SGMR	49 GB	1512.0E	1513.0	3.00	1900.0			QL=4 ST=2 TYP=6
	4995 SGMR	4 S/F	1512.0E	1514.0	3.00	79.0			QL=4 ST=2 TYP=3
	2695 SGMR	4 S/F	1512.0E	1514.0	3.00	150.0			QL=4 ST=2 TYP=3
	245 SGMR	49 GB	1512.0E	1513.0	5.00	1100.0			QL=4 ST=3 TYP=6
	410 SGMR	49 GB	1512.0E	1513.0	3.00	1500.0			QL=4 ST=2 TYP=6
	8800 SGMR	4 S/F	1512.0E	1513.0	5.00	61.0			QL=2 ST=2 TYP=3
	1415 SGMR	4 S/F	1512.0E	1514.0	5.00	98.0			QL=4 ST=2 TYP=3
	2800 OTTA	3 S	1512.2	1514.7	9.1	183.0	55.0		
	9400 HUAN	29 PBI	1518.8	1518.8	31.1	5.9	3.6		
	9400 HUAN	2 S/F	1704.2	1707.6	6.5	11.8	5.2		
	1415 PALE	8 S	1746.0E	1747.0	1.00	150.0			QL=4 ST=2 TYP=3
	1415 SGMR	8 S	1747.0E	1747.0	U	150.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	1749.0E	1749.0	1.00	160.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	1749.0E	1749.0	1.00	160.0			QL=4 ST=2 TYP=3
	9400 HUAN	4 S/F	1827.4	1830.1		75.0			
	9400 HUAN	4 S/F	1827.4	1829.2	5.1	94.7	46.4		
	2695 PALE	4 S/F	1828.0E	1829.0	4.00	130.0			QL=4 ST=2 TYP=3
	4995 PALE	8 S	1828.0E	1829.0	2.00	87.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	1828.0E	1829.0	2.00	84.0			QL=4 ST=2 TYP=3
	15400 PALE	8 S	1828.0E	1829.0	2.00	140.0			QL=4 ST=2 TYP=3
	1415 PALE	4 S/F	1828.0E	1830.0	3.00	88.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	1828.0E	1828.0	2.00	61.0			QL=2 ST=2 TYP=3
	4995 SGMR	4 S/F	1828.0E	1829.0	3.00	91.0			QL=4 ST=2 TYP=3
	1415 SGMR	4 S/F	1828.0E	1830.0	4.00	110.0			QL=4 ST=2 TYP=3
2695 SGMR	4 S/F	1828.0E	1829.0	3.00	130.0			QL=4 ST=2 TYP=3	
15400 SGMR	8 S	1828.0E	1828.0	1.00	100.0			QL=2 ST=2 TYP=3	
2800 OTTA	3 S	1828.7	1830.0	11.2	142.1	28.0			
9400 HUAN	22 GRF	1859.8	1909.8	27.5	5.9	3.2			
9400 HUAN	1 S	2059.4	2102.3	7.7	11.8	5.0			
9400 HUAN	1 S	2130.6	2132.0	4.4	12.8	6.1			
31	204 IZMI	5 S	0713.0	0713.2	0.2	36.0	20.0		
	245 SVTO	8 S	1159.0E	1159.0	U	130.0			QL=4 ST=2 TYP=3
	9400 HUAN	22 GRF	1250.3	1311.2	35.4	5.9	3.2		
	9400 HUAN	1 S	1347.4	1352.0	11.1	7.9	3.8		
	9400 HUAN	2 S/F	1635.2	1638.1	9.4	11.9	5.2		
	9400 HUAN	22 GRF	1928.1	1954.7	59.1	9.9	4.6		
	9400 HUAN	2 S/F	2141.8	2145.2	8.6	19.8	8.8		

Reports are received routinely from the following observatories:

BERN = Berne
CRIM = Crimea
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
HUMN = Humain

IZMI = IZHIRAN
KISK = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
NOBE = Nobeyama

ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PENT = Penticton
POTS = Potsdam
SGMR = Sagamore Hill

SVTO = San Vito
SYDN = Sydney
TORN = Torun
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice

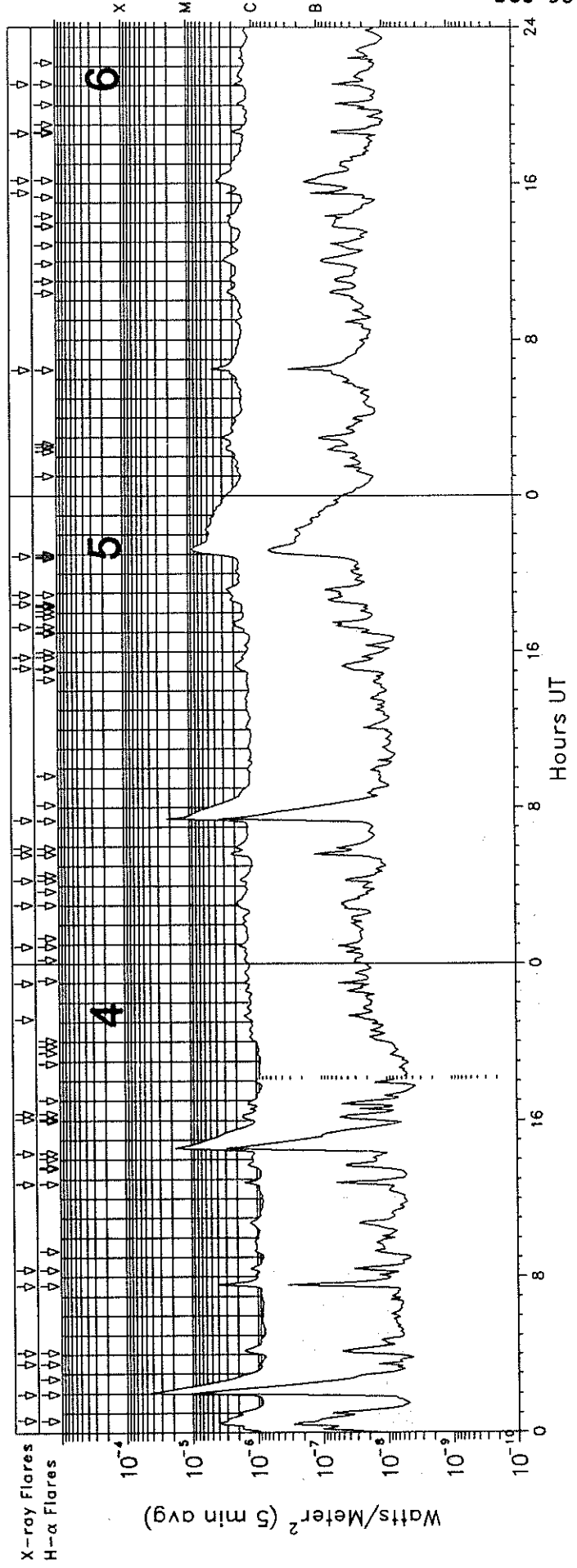
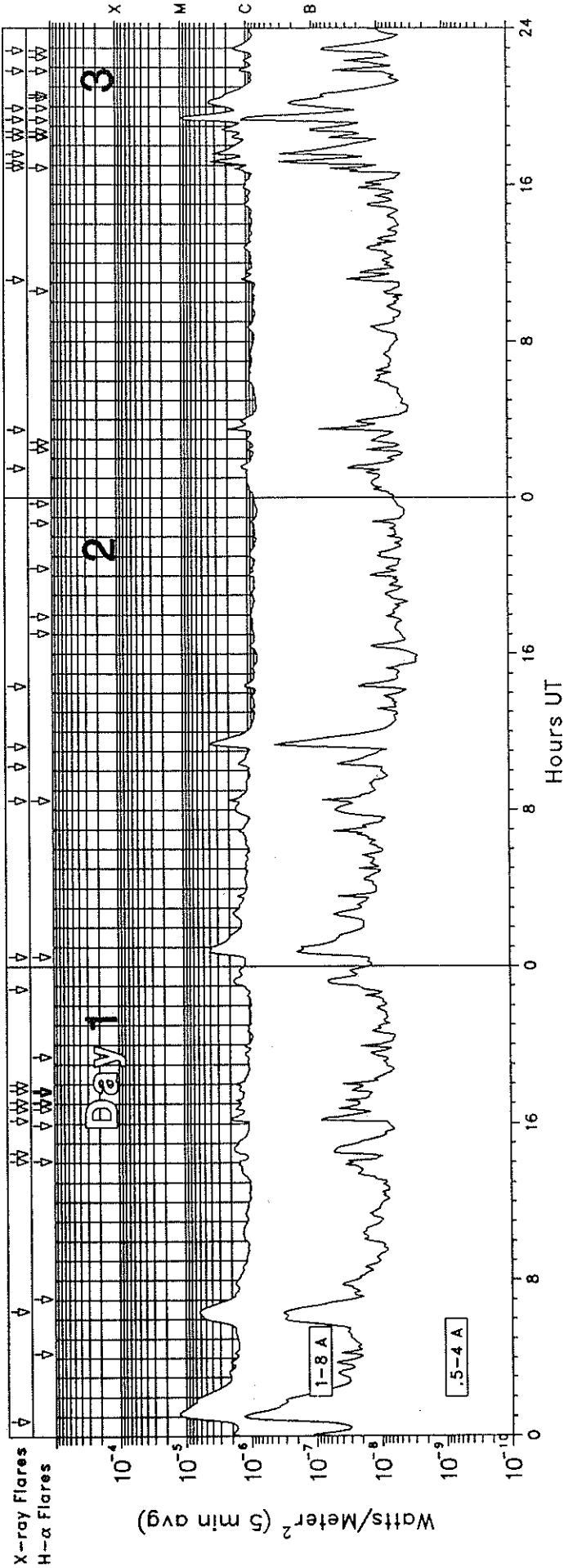
Explanation of Type Code:

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

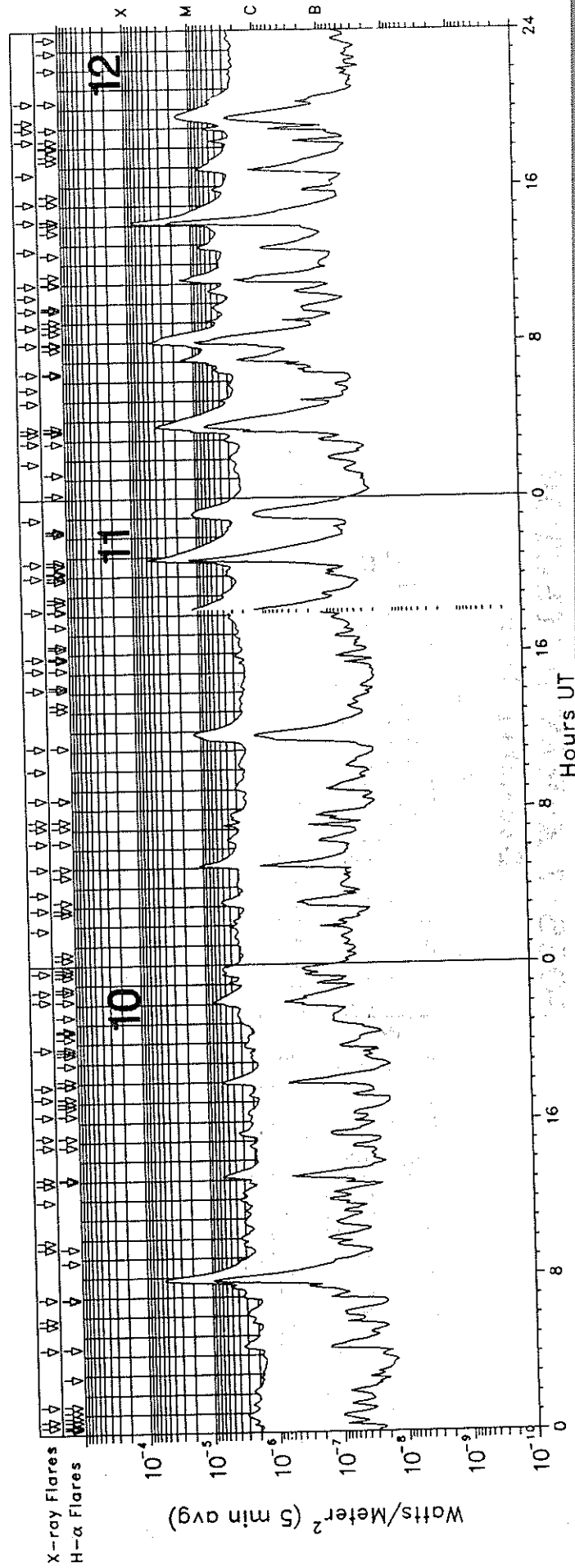
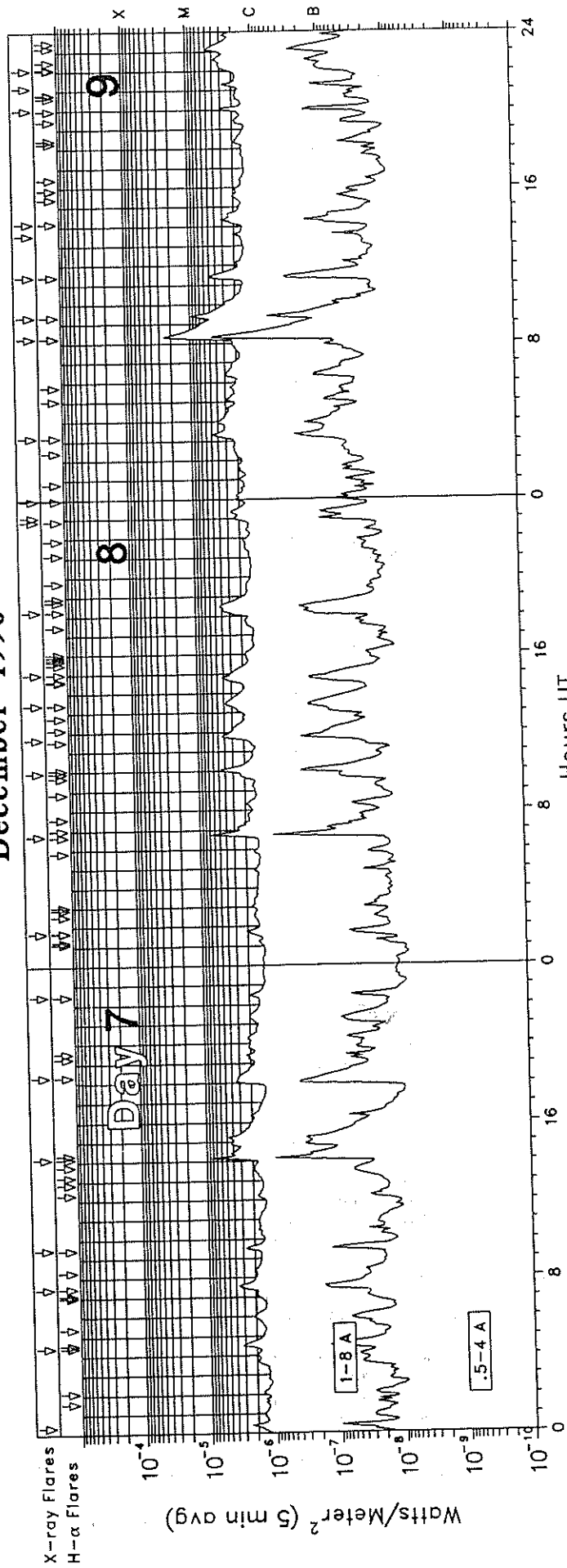
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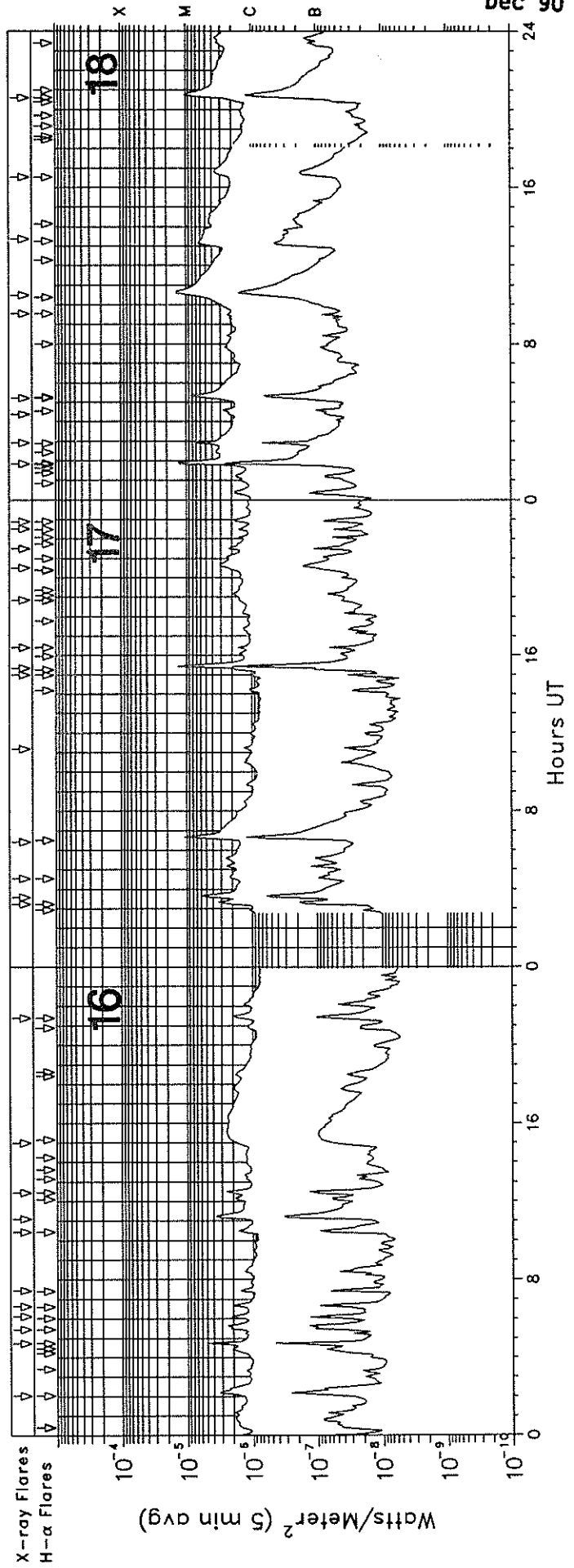
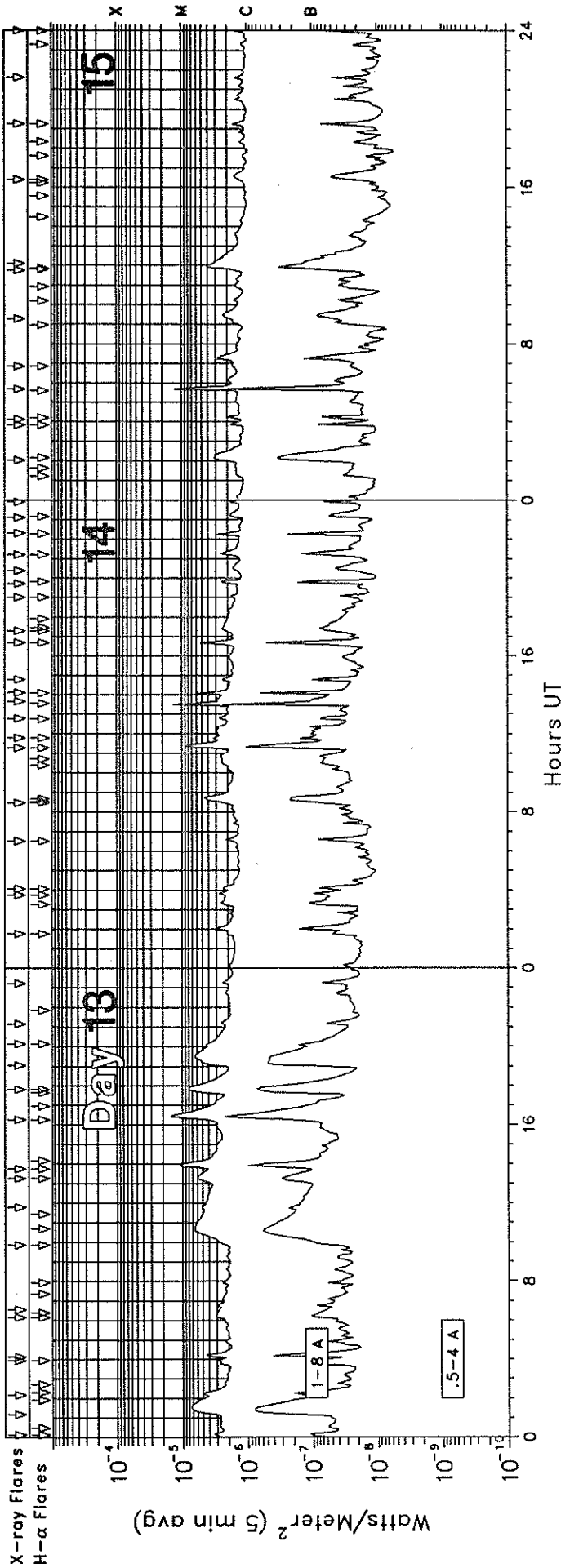
GOES-7 X-RAY DETECTOR

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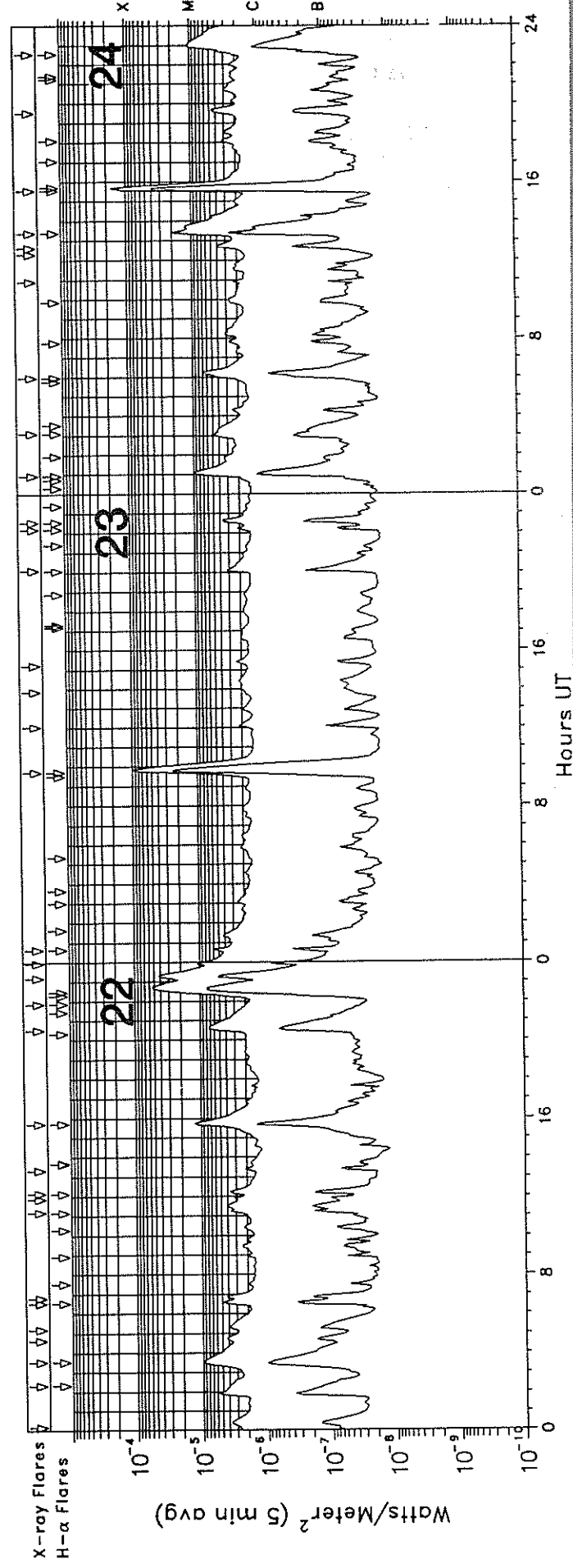
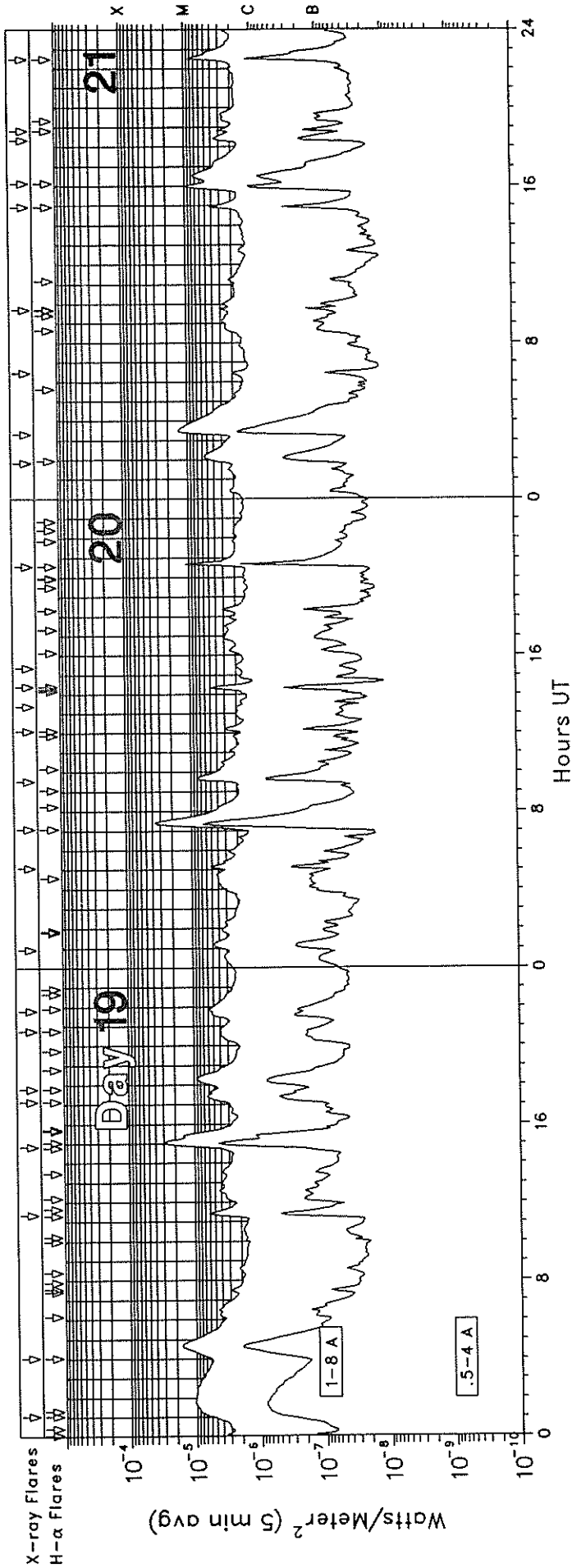
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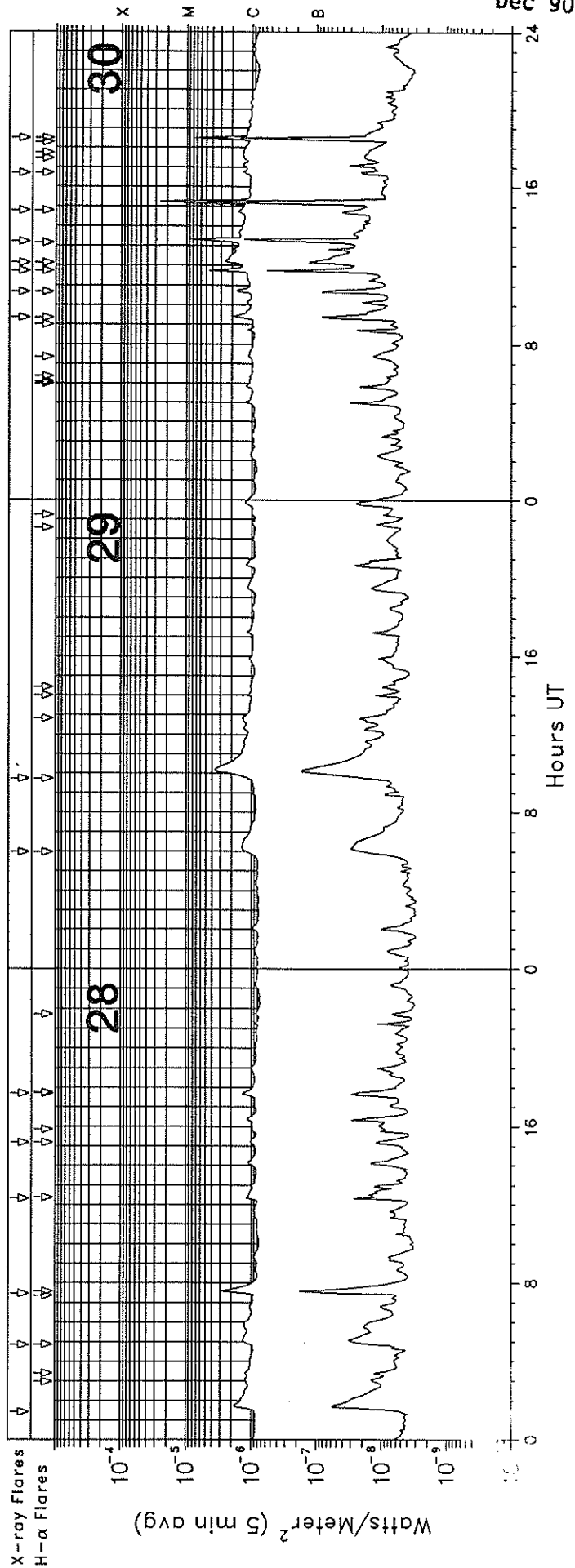
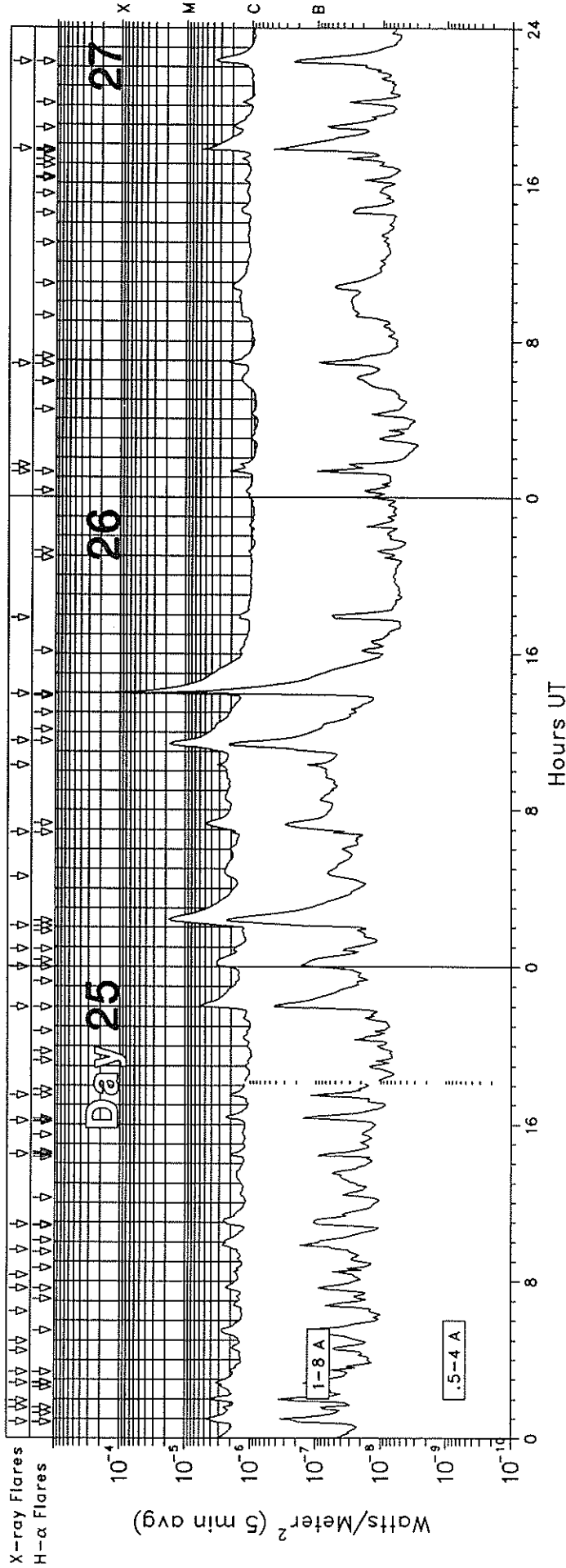
GOES-7 X-RAY DETECTOR

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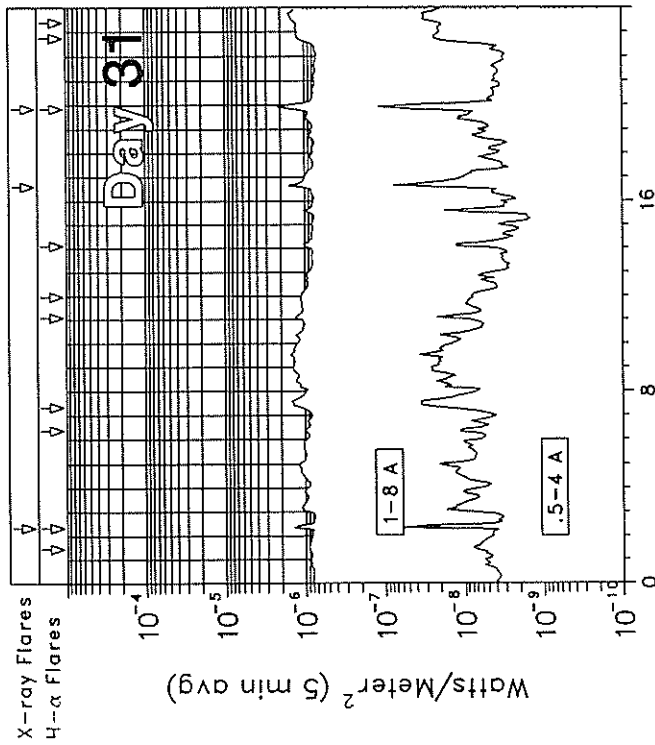
GOES-7 X-RAY DETECTOR

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GOES-7 X-RAY DETECTOR

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GOES SOLAR X-RAY FLARES
 Preliminary Listing

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
01	0047	0111	0210				M1.2	
01	0626E		0630D	N23	E80	SN	C6.3	
01	1405E	1412	1432D	N14	E11	SF	C1.7	6383
01	1430	1446	1517				C1.8	
01	1609	1615	1624				C2.2	
01	1645E	1649	1700D	S08	W07	SF	C1.7	6388
01	1706E	1708	1745D	S08	W06	SF	C1.8	6388
01	1741E	1742	1752D	N35	E53	SF	C1.5	6390
01	1759	1802	1807				C1.7	
01	2251	2310	2335				C1.8	
02	0031E	0048	0143D	S08	W11	1F	C4.1	6388
02	0829E	0830	0842D	S22	E10	SF	C2.0	6393
02	1014	1022	1033				C1.5	
02	1114	1125	1136				C4.0	
02	1421	1425	1428				C1.2	
03	0129	0134	0138				C1.4	
03	0328	0333	0337				C2.1	
03	1108	1113	1116				C1.3	
03	1651	1651U	1658D	N20	E57	SF	C1.6	6395
03	1705	1713	1720				C3.5	
03	1733	1738	1745				C3.4	
03	1825E	1826	1849D	N22	E45	SF	C1.7	6399
03	1843E	1845	1920D	S21	W58	SF	C2.3	6396
03	1920E	1922	1944D	N11	E66	SN	M1.0	6397
03	1954E	2019	2042D	N08	E65	SF	C3.9	6397
03	2149E	2149	2159D	N12	E67	SF	C1.3	6397
03	2251E	2251	2305D	N08	E58	SF	C1.7	6397
04	0039E	0039	0043D	S21	W11	SF	C4.4	6393
04	0158E	0202	0246D	N08	E56	1F	M6.6	6397
04	0331E	0331	0337D	N10	E62	SF	C1.2	6397
04	0406E	0415	0421D	N08	E54	SF	C1.6	6397
04	0733E	0735	0743D	N10	E58	SF	C4.3	6397
04	0824E	0825	0841D	N19	E44	SF	C1.4	6395
04	1246E	1252	1319D	N10	E55	1N	C1.8	6397
04	1420E	1435	1547	N08	E51	1B	M1.8	6397
04	1604E	1611	1651D	N10	E37	SF	C1.7	6397
04	1621E	1624	1658D	S23	W61	SF	C1.4	6400
04	2109	2120	2123				C1.7	
04	2300	2304	2307				C1.7	
05	0053E	0055	0104D	N10	E44	SF	C1.9	6397
05	0301E	0325	0340D	S25	W71	SF	C1.9	6396
05	0417E	0419	0423D	N18	E35	SF	C1.8	6395
05	0536E	0539	0547D	N10	E42	SF	C3.3	6397
05	0555E	0559	0611D	S26	W05	SF	C2.0	6387
05	0722E	0726	0820D	N08	E43	2N	M2.7	6397
05	1511E	1516	1531D	N15	E33	SF	C1.9	6395
05	1544E	1545	1551D	S23	W70	SF	C1.6	6400
05	1718E	1730	1738D	S25	W72	SF	C2.3	6400
05	1827E	1838	1854D	S25	W73	SF	C2.3	6400
05	1856E	1900	1906D	S24	W73	SF	C2.6	6400
05	2054E	2114	2200D	N10	E32	SF	C8.9	6397
06	0628E	0630	0643D	N10	E28	SN	C4.5	6397
06	1531	1534	1536				C3.5	
06	1610		1633D	N11	E24	SF	C3.5	6397
06	1834E	1842	1858D	S18	E28	SF	C2.2	6404
06	2105E	2108	2116D	S18	E26	SF	C2.1	6404
07	0021E	0024	0031D	N17	E11	SF	C2.8	6395
07	0425E	0428	0440D	N09	E20	SF	C3.4	6397
07	0727	0730	0743				C4.0	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
07	0929E	0939	0949D	S26	W34	SF	C2.8	6387
07	1408E	1410	1436D	N09	E16	1F	M1.0	6397
07	1819E	1819	1838D	S24	W37	SF	C3.3	6387
07	2227E	2231	2248D	N19	W02	SF	C2.2	6395
08	0141E	0145	0146D	S23	W26	SF	C2.2	6403
08	0643E	0645	0715D	S12	W32	SF	C7.3	6402
08	0956E	1002	1025D	N09	E02	1N	C4.9	6397
08	1139E	1145	1205D	N13	W22	SF	C4.5	6398
08	1325E	1332	1350D	N19	W08	SF	C3.8	6395
08	1500E	1501	1512D	S27	E35	SF	C4.4	6406
08	1814E	1847	1851D	N14	W25	SF	C4.3	6398
08	2305E	2319	2337D	N13	W30	SF	C2.7	6398
08	2252E	2314	2334D	N14	W30	SF	C2.7	6398
08	2356E	2400	2409D	N15	W27	1F	C2.6	6398
09	0311E	0315	0326D	N13	W32	1F	C4.9	6398
09	0815E	0818	0836D	N02	E79	1N	M2.8	6410
09	0921E	0926	1003D	N09	W11	1F	M1.0	6397
09	1125E	1133	1141D	N16	W33	SF	C4.9	6398
09	1333	1337	1339				C2.4	
09	1409E	1424U	1431D	N15	W36	SN	C3.2	6398
09	1959E	2004	2016D	S25	W63	SF	C4.2	6387
09	2108E	2117	2134D	S12	W77	SB	C3.0	6385
09	2203E	2307	2339D	N14	W42	1N	C5.1	6398
10	0023E	0025	0054D	S26	W67	SF	C2.6	6387
10	0041E	0047	0111D	N13	W44	SF	C3.3	6398
10	0125E	0126	0144D	N15	W41	SF	C2.6	6398
10	0421E	0433	0444D	N16	W46	SF	C3.4	6398
10	0534	0542	0553				C2.6	
10	0551E	0602	0609	N16	W46	SF	C3.1	6398
10	0657E	0755	0913D	N15	W47	2B	M5.8	6398
10	0932E	0943	0948D	N13	W50	SF	C3.4	6398
10	0954E	0955	1005D	N12	W49	SF	C3.6	6398
10	1157	1201	1203				C4.0	
10	1250	1254	1258				C2.8	
10	1306E	1311	1318D	N14	W51	SF	C6.8	6398
10	1445	1446U	1532D	N21	W50	SF	C2.5	6399
10	1515	1521	1536D	N09	W28	SF	C3.7	6397
10	1620E	1629	1646D	N14	W53	SF	C2.5	6398
10	1714E	1719	1728D	N13	W54	SN	C2.6	6398
10	1749E	1759	1828D	N21	W52	SN	C6.8	6399
10	1945E	1951	1959D	N13	W55	SF	C3.0	6398
10	2210	2210U	2309D	N15	W52	1N	C8.6	6398
10	2239E	2304	2316D	S10	W69	SF	C5.2	6402
10	2339E	2342	2426D	N20	W56	SF	C5.7	6399
11	0149	0158	0202				C4.8	
11	0252E	0310	0334D	N21	W56	SF	C5.4	6399
11	0341	0342	0343				C3.4	
11	0502E	0504	0516D	S25	W88	SF	M1.1	6387
11	0621E	0630	0649D	N20	W60	SF	C4.3	6399
11	0708E	0710	0730D	N20	W43	SF	C5.1	6395
11	0727E	0733	0749D	N03	E58	SF	C3.8	6410
11	0832E	0912	1108D	N14	W63	SF	C3.1	6398
11	1003	1013	1031				C2.7	
11	1111E	1132	1228D	N11	W61	1N	M1.3	6398
11	1411E	1418	1421D	S10	W76	SF	C2.5	6402
11	1511E	1523	1533D	S13	W79	SF	C2.5	6407
11	1547E	1549	1603D	S08	W79	SF	C2.9	6402
11	1815E	1821	1831D	N12	W66	SF	M1.3	6398
11	1958E	2004	2012D	N14	W67	SF	C3.7	6398
11	2041E	2044	2105D	S11	W80	SB	M6.5	6402
11	2257E	2306	2318D	N13	W72	SN	M1.1	6398

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
12	0151	0208	0217				C2.9	
12	0253E	0259	0308D	N23	W69	SF	C4.0	6399
12	0324E	0326	0432D	N23	W68	1B	M1.7	6399
12	0336	0344	0438				M4.0	
12	0457	0503	0506				C4.6	
12	0538	0551	0554				C3.1	
12	0625E	0703	0723D	N20	W73	1B	M1.6	6399
12	0755E	0803	0859D	N20	W73	SF	M5.1	6399
12	0849E	0858	0908D	N20	W71	SF	C8.2	6399
12	0941E	0948	0952D	N19	W58	SF	C4.9	6395
12	1021	1038	1047				C5.8	
12	1058E	1102	1201D	N19	W74	SF	M1.6	6399
12	1244	1252	1303				C8.2	
12	1413	1413U	1425D	N10	W72	SF	M8.9	6398
12	1508E	U	1629	N22	W75	SF	C4.7	6399
12	1638E	1638	1657D	N21	E69	SF	C8.2	6412
12	1821E	1822	1825D	N05	E36	SF	C5.2	6410
12	1857E	1857	1900D	N05	E30	SF	C8.3	6410
12	1921	1939	2014				M1.6	
12	2018E	2019	2054D	N02	E09	SF	C5.7	
13	0008E	0011	0022D	N18	E63	SF	C3.6	6412
13	0111	0132	0201				C7.3	
13	0210	0215	0219				C5.6	
13	0356E	0359	0405D	N18	E63	SF	C3.1	6412
13	0408E	0412	0425D	N22	W84	SN	C6.6	6399
13	0610E	0612	0618D	N08	W65	SF	C3.2	6397
13	0634E	0644	0653D	N19	E65	SF	C3.2	6412
13	0952E	1024	1047	N15	E50	1F	C6.8	6412
13	1148	1149	1151				C5.9	
13	1315E	1324	1333D	N01	E22	SF	C6.1	6410
13	1344E	1354	1440D	N03	E27	1N	M1.1	6410
13	1615E	1616	1629D	N16	W78	SF	M1.5	6398
13	1749E	1750	1821D	N17	E55	SF	C8.2	6412
13	1903	1933	2003				C6.5	
13	2009E	2009	2020	N20	E58	SF	C5.4	6412
13	2110	2112	2118				C2.6	
13	2313	2318	2322				C2.5	
14	0146E	0206	0227D	N18	E50	SF	C3.1	6412
14	0345E	0352	0406D	N15	E48	SF	C3.0	6412
14	0404E	0408	0423D	N03	E19	SF	C2.5	6410
14	0630E	0636	0643D	N20	E32	SF	C2.3	6413
14	0827E	0846	0906D	N01	E08	SF	C4.9	6410
14	1116	1124	1133				M1.0	
14	1147	1150	1152				C4.2	
14	1246E	1247	1309D	N05	E10	SF	C3.0	6410
14	1339E	1339U	1340D	N16	E32	SF	M3.9	6412
14	1406	1406U	1418	N16	E32	SF	C7.5	6412
14	1446	1451	1453				C2.9	
14	1641	1641U	1651	N16	E43	SN	C6.5	6412
14	1717E	1742	1754D	N17	E42	SF	C2.4	6412
14	1900E	1907	1911D	N14	E44	SF	C1.8	6412
14	1943E	1949	1958D	N15	E46	SB	C4.7	6412
14	2023	2028	2040				C1.6	
14	2113E	2114	2156D	N21	E41	SF	C2.5	6412
14	2218E	2219	2228D	N12	E41	SN	C3.9	6412
14	2306E	2314	2328D	N19	E42	SN	C1.8	6412
14	2355	2358	0000				C2.0	
15	0201	0212	0229				C3.2	
15	0349	0354	0358				C2.0	
15	0407E	0415	0430D	N15	E40	SF	C2.4	6412
15	0540E	0543	0556D	N12	E35	1N	M1.8	6412
15	0650E	0653	0716D	N17	W17	SF	C3.0	6408

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
15	0917	0927	0946				C2.3	
15	1144	1147	1149				C1.9	
15	1205E	1213	1258	N04	E01	SF	C4.3	6410
15	1623E	1634	1651D	N25	E13	SF	C1.6	6413
15	1915E	1916	1931D	N13	E27	SF	C1.8	6412
15	2135	2139	2142				C1.6	
15	2359E	2359	2406D	N18	E25	SF	C1.7	6412
16	0202E	0214	0251D	N19	E23	SF	C3.4	6412
16	0445E	0445	0450D	N12	E24	SF	C8.1	6412
16	0529E	0531	0537D	N13	E23	SF	C2.4	6412
16	0608E	0609	0611D	N12	E24	SF	C2.8	6412
16	0639	0643	0647				C2.3	
16	0728E	0729	0735D	N12	E23	SF	C2.0	6412
16	1027E	1027	1033D	N15	E17	SF	C1.7	6412
16	1107	1119	1124				C4.0	
16	1227E	1228	1236D	N16	E14	SF	C2.8	6412
16	1500	1528	1649				C2.5	
16	2124E	2128	2147D	N15	E14	SF	C2.2	6412
17	0315E	0317	0404D	N14	E08	1F	C3.5	6412
17	0335E	0337	0405D	N15	E12	SB	C6.0	6412
17	0433E	0509	0557D	N13	E09	SF	C2.5	6412
17	0626E	0638	0658D	N14	E10	1B	M1.1	6412
17	1112	1116	1119				C1.4	
17	1459E	1459	1507D	N22	W03	SF	C1.2	6412
17	1520E	1529	1552D	N14	E04	1B	M2.4	6412
17	1625E	1625	1630D	N11	W12	SF	C1.7	6415
17	1851E	1911	1920D	N12	W13	SF	C2.0	6415
17	2031E	2035	2102D	N11	W13	SF	C3.1	6415
17	2130	2133	2138				C2.5	
17	2231E	2233	2249D	N04	W40	SF	C1.8	6410
17	2254E	2300	2326D	N03	W27	SF	C2.0	6410
18	0150E	0153	0203D	N14	W17	1N	M1.8	6415
18	0255E	0258	0303D	N14	W00	1N	C9.9	6412
18	0422	0425	0429				C2.4	
18	0513E	0521	0536D	N12	W18	SF	C9.3	6415
18	0932E	0934	0943D	N12	W21	SF	C2.8	6415
18	1029	1034	1136D	N11	W22	1N	M1.5	6415
18	1322E	1327	1353D	N15	W23	SF	C6.4	6415
18	1632E	1655	1739D	N13	W24	SF	C3.6	6415
18	2036E	2043	2120D	N13	W26	SN	M1.0	6415
19	0103E	0119	0133D	N12	W30	SF	M1.1	6415
19	0403E	0433	0527D	N14	W31	SF	M1.7	6415
19	1122E	1127	1156D	N12	W36	1N	C6.2	6415
19	1451E	1505	1609D	N15	W23	2B	M3.0	6412
19	1708E	1712	1718D	N10	W58	SF	C6.5	6410
19	1748E	1818	1922D	N14	W39	SN	C9.1	6415
19	2045E	2049	2104D	N20	W20	SF	C3.9	6412
19	2149E	2151	2201	N20	W35	SF	C5.8	6412
20	0056	0113	0132				C4.8	
20	0505	0511	0517				C5.6	
20	0705E	0721	0824D	N14	W47	1N	M3.7	6415
20	0932	0945	0957				C8.4	
20	1206E	1210	1319	N17	W33	SF	C3.1	6412
20	1323	1326	1328				C4.2	
20	1424E	1425	1439D	N16	W36	SF	C5.1	6412
20	1522	1525	1528				C3.3	
20	2034E	2040	2055D	N12	W39	1N	M1.2	6412
21	0150E	0157	0200D	N17	W45	SF	C5.5	6412
21	0318	0331	0420				M1.4	

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
21	0627	0630	0633				C2.5	
21	0942E	0947	0952D	S24	E80	SF	C3.5	6420
21	1455E	1456	1511D	S22	E73	SF	C4.4	6420
21	1608	1622U	1700D	S19	E69	SF	M1.0	6420
21	1819	1828	1841				C3.5	
21	1849E	1851	1912D	N18	W50	SF	C3.1	6412
21	2228E	2232	2248D	N19	W50	1F	C9.1	6412
22	0010	0025	0041				C4.4	
22	0221E	0221	0240D	N17	W57	SF	C5.7	6412
22	0333E	0333	0344D	S23	E65	SF	C9.8	6420
22	0439	0445	0505				C4.4	
22	0512	0520	0605				C3.9	
22	0633E	0633	0640D	S26	E76	SF	C5.5	6420
22	0648	0655	0705				C4.5	
22	1112E	1114	1118	S21	E72	SF	C4.1	6420
22	1153	1156	1158				C3.6	
22	1210	1216	1223				C3.8	
22	1321	1326	1330				C2.4	
22	1544E	1545	1645D	S25	E66	SF	M1.2	6420
22	2031	2040U	2130	S23	E63	SF	C7.5	6420
22	2152E	2234	2324	S25	E63	2B	M5.3	6420
22	2312E	2314	2332D	N13	W87	1N	M4.3	6415
22	2357E	2358	2400	S21	E55	SB	M1.4	6420
23	0038E	0040	0048D	N18	W66	1N	C8.5	6412
23	0943	1001	1029D	N11	W68	2B	X1.0	6412
23	1202	1207	1218				C2.3	
23	1352	1355	1357				C2.9	
23	1514	1527	1551				C2.4	
23	2007E	2008	2025D	S23	E55	SF	C3.3	6420
23	2211E	2215	2227D	S15	E60	SF	C2.3	6422
23	2232E	2236	2252D	N17	E06	SF	C3.9	6418
24	0056E	0101	0131D	S25	E44	SF	M1.0	6420
24	0306E	0316	0336D	S25	E53	SF	C4.9	6420
24	0558E	0611	0640D	N17	E03	SF	C7.5	6418
24	1055	1059	1101				C2.5	
24	1218	1221	1223				C2.4	
24	1237	1244	1254				C4.3	
24	1322	1327	1330	S24	E47	1F	M2.2	6420
24	1533E	1546	1606D	N10	W80	1B	X1.8	6412
24	1930	1943	1949				C4.8	
24	2232E	2256	2329D	S27	E39	1F	M1.0	6420
25	0051E	0057	0109D	S25	E39	SF	C5.0	6420
25	0133	0136	0138				C3.3	
25	0154	0203	0309				C4.4	
25	0249E	0251	0257D	S28	E37	SF	C3.5	6420
25	0323E	0323	0327D	S21	E44	SF	C2.0	6422

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
25	0428	0438	0447				C1.9	
25	0458	0534	0541				C2.9	
25	0627	0650	0700				C1.8	
25	0738E	0741	0756D	S21	E42	SF	C2.4	6422
25	0819	0830	0832				C2.1	
25	0935	0954	1012				C2.8	
25	1052	1106	1119				C2.6	
25	1428E	1430	1436D	S10	E24	SN	C3.3	6424
25	1611E	1625	1634D	S18	E10	SF	C2.4	6423
25	1729E	1737	1743D	S19	E36	SF	C2.1	6422
25	2158E	2203	2228D	S28	E28	1N	C5.9	6420
25	2358E	2406	2427D	S24	E27	SF	C3.3	6420
26	0053E	0054	0058D	S25	E25	SF	C1.9	6420
26	0204E	0222	0318D	S26	E25	1N	M1.8	6420
26	0434	0452	0520				C2.5	
26	0650E	0716	0736D	S26	E22	SF	C2.1	6420
26	1017	1023	1025				C3.4	
26	1133	1135	1206D	S26	E25	1F	M1.7	6420
26	1355E	1401	1528D	S26	E21	2B	X1.9	6420
26	1749	1800	1806				C1.6	
27	0117	0122	0127				C2.2	
27	0138	0141	0144				C1.7	
27	0649E	0652	0712D	S26	E11	SF	C2.2	6420
27	1744E	1747	1827D	S27	E06	1N	C6.3	6420
27	2215E	2223	2336D	S18	W09	SF	C3.7	6423
28	0125	0145	0201				C1.9	
28	0451	0507	0526				C1.4	
28	0729E	0735	0812D	S11	W13	1F	C3.2	6424
28	1220	1223	1229				C1.2	
28	1511E	1511	1528D	S17	W01	SF	C1.0	6422
28	1743E	1745	1753D	S14	W13	SF	C1.4	6424
29	0558E	0614	0644D	S12	E67	SF	C1.4	
29	0944E	1009	1117D	S11	E36	1F	C3.6	6427
30	0921E	0923	0956D	S11	W39	SF	C2.0	6424
30	1041E	1042	1053D	S09	W42	SF	C1.9	6424
30	1144E	1145	1204D	S10	W43	SN	C5.5	6424
30	1208E	1210	1249D	S12	W41	SF	C2.6	6424
30	1313E	1319	1327D	S07	W43	SB	M1.7	6424
30	1447E	1514	1543D	S09	W45	1B	M4.0	6424
30	1641E	1643	1722D	S10	E18	SF	C1.7	6427
30	1829E	1830	1843D	S09	W47	SN	M1.2	6424
31	0221E	0222	0237D	S24	E25	SF	C2.0	6429
31	1637	1640	1644				C1.9	
31	1951E	1952	2014D	S20	W45	SN	C2.4	6422

Preliminary GOES Satellite Data
Daily Average X-ray Background
Jan 1990 - Dec 1990

1990												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	C1.4	B9.5	C1.1	B7.4	B3.1	B3.1	C1.2	C1.3	B8.7	B5.1	B3.8	C1.0
2	C1.1	B7.8	C1.1	B5.2	B4.2	B3.7	C1.4	C1.2	B8.6	B7.9	B3.7	B7.6
3	C1.1	B8.9	C1.0	B7.8	B2.8	B3.6	C1.2	B7.8	B6.6	C1.5	B4.0	B7.6
4	C1.1	B7.8	B9.1	B6.9	B2.7	B3.8	C1.1	B7.1	B7.3	C1.1	B5.2	B8.6
5	C1.0	B7.7	B7.0	B6.1	B4.4	B4.8	C1.1	B6.9	C1.0	B8.6	B6.7	C1.1
6	C1.0	C1.1	B7.5	B5.4	B5.7	B8.5	C1.0	B7.0	B6.0	B6.9	B9.4	C1.3
7	---	B7.5	B7.4	B4.6	B7.7	C1.2	C1.1	B7.0	B6.6	B9.0	C1.1	C1.2
8	B7.3	B6.1	B6.7	B4.6	B9.8	C1.0	C1.1	B9.6	B5.9	B8.9	B9.8	C1.2
9	B6.2	B5.7	B5.4	B4.8	C1.0	B9.1	C1.1	B7.8	B6.5	B9.0	B8.6	C1.5
10	B6.9	B5.2	B5.9	B6.1	C1.4	C1.3	B9.7	B7.9	B6.9	B6.5	B7.6	C1.8
11	B7.3	B4.6	B8.5	C1.0	C1.5	C1.0	B7.9	B7.2	B8.7	B6.9	B9.6	C2.1
12	B7.5	B4.3	B5.8	C1.2	---	C1.1	B6.0	B7.9	B7.5	B6.4	C1.1	C2.1
13	B7.5	B4.0	B7.1	---	C1.5	C1.0	B7.8	B8.2	B7.6	B8.3	C1.0	C1.9
14	B6.7	B4.1	B8.8	C1.6	C1.3	B8.0	B4.6	B6.3	C1.0	B8.6	C1.1	C1.3
15	B9.5	B4.2	C1.0	C1.6	C1.9	B8.5	B4.3	B6.6	B7.9	C1.4	C1.1	C1.0
16	C1.0	B4.0	C1.2	C1.3	C1.4	B6.9	B4.6	B9.4	B7.4	C1.2	C1.2	B9.1
17	C1.1	B5.9	B9.3	C1.2	C1.4	B5.9	B6.2	C1.2	B9.3	C1.0	C1.5	B7.6
18	C1.2	B8.2	C1.3	C1.7	C1.6	B4.9	B9.5	C1.7	B8.5	C1.2	C1.2	C1.3
19	C1.6	C1.2	C1.6	C1.3	C2.4	B4.8	B4.7	C1.6	B9.3	C1.6	C1.0	C1.6
20	C1.9	C1.1	C1.1	C1.6	C1.8	B5.2	B4.7	C1.9	B8.1	C1.4	B7.5	C1.5
21	C1.9	C1.2	C1.3	C1.4	C1.6	B5.0	B5.8	C2.0	B9.0	C1.4	B8.3	C1.3
22	C1.8	C1.0	C1.9	C1.1	C1.4	B4.6	B6.2	C2.0	B7.9	B9.5	*	C1.3
23	C1.4	C1.1	C1.4	C1.1	C1.6	B4.2	B7.2	C2.2	B9.5	B6.7	B8.0	C1.3
24	C1.5	C1.0	C1.4	C1.0	C1.3	B5.8	B7.3	C2.1	B8.9	B5.6	B8.8	C1.7
25	C1.2	B9.8	C1.1	C1.1	C1.5	B6.0	C1.0	C1.5	B6.9	B6.7	C1.0	C1.2
26	C1.4	B9.5	C1.7	C1.3	C1.4	B5.2	B9.5	C1.8	B4.8	B5.0	B9.8	C1.1
27	C1.0	C1.2	C1.6	C1.0	B6.8	B9.4	B7.0	C1.7	B4.0	B6.4	C1.1	B9.2
28	C1.0	C1.6	C1.8	B5.7	B6.4	C1.3	B7.3	C2.2	B4.1	B4.5	C1.4	B7.9
29	C1.2		C1.3	B3.8	B4.7	C1.3	B6.6	C1.5	B4.5	B7.3	C1.4	B8.4
30	C1.1		C1.2	B3.4	B5.5	C1.1	C1.0	C1.5	B4.8	B6.5	C1.1	B8.6
31	C1.0		C1.0		B4.5		B9.4	C1.0		B4.4		B7.8

MASS EJECTIONS FROM THE SUN

85
Dec 90

DECEMBER 1990

Site	Mo	Day	— Observed UT —			Location		Freq or Wavelength	Kind of Event	
			Start	Max	End	RA*	R/Ro			
KHAR	Dec	03	1028	U	1040	D	123	1.00-1.02	H-alpha	S
POTS	Dec	10	0749.0		0758	U			100-170 MHz	II Harmonic
WEIS	Dec	10	0749.9		0804.7				150- 30 MHz	II
LEAR	Dec	10	0749.0		0801.0				Meter	II
SVTO	Dec	10	0752.0		0804.0				Meter	II
LEAR	Dec	10	0801.0		0832.0				Meter	IV
SVTO	Dec	10	0808.0		0820.0				Meter	IV
SVTO	Dec	12	1133.0		1134.0				Meter	II
WEIS	Dec	14	1332.1		1337.0				540-110 MHz	II
POTS	Dec	14	1333.9E		1343.3				450- 60 MHz	II Harmonic
LEAR	Dec	15	0256.0		1044.0				Meter	IV
LEAR	Dec	15	0645.0		0649.0				Meter	II
KHAR	Dec	18	0910	E 0912	0920	D	297-298	0.69-0.72	H-alpha	S
KHAR	Dec	18	1015	E	1020	D	304	0.35	H-alpha	S
KHAR	Dec	18	1015	E	1020	D	305	0.30	H-alpha	S
KHAR	Dec	18	1040	E 1046	1105	D	319-321	0.46-0.53	H-alpha	S
SGMR	Dec	18	1300.0		1313.0				Meter	IV
SVTO	Dec	18	1300.0		1414.0				Meter	IV
POTS	Dec	18	1308.7		1411	U			600- 40 MHz	II IV Harmonic
POTS	Dec	19	1123.7		1136				90- 40 MHz	II ?
LEAR	Dec	20	0722.0		0739.0				Meter	II
POTS	Dec	20	0722.8U		0743.7				130- 40 MHz	II IV Harmonic
SVTO	Dec	20	0723.0		0733.0				Meter	II
LEAR	Dec	22	2322.0		2330.0				Meter	II
PALE	Dec	22	2323.0		2330.0				Meter	II
LEAR	Dec	22	2330.0		2500.0				Meter	IV
POTS	Dec	23	0942.1		0947.5				500- 40 MHz	IV Continuum
SVTO	Dec	23	0943.0		0949.0				Meter	II
WEIS	Dec	23	0943.1		0958.9				380- 30 MHz	II Harmonic
POTS	Dec	23	0947.5		1000.0				400- 40 MHz	II Harmonic
ONDR	Dec	23	0948.9		0950.6				Meter	II
LEAR	Dec	23	0953.0		1003.0				Meter	II
SVTO	Dec	23	0953.0		1006.0				Meter	II
KHAR	Dec	25	1025	U	1039	D	106-108	0.69-0.70	H-alpha	S
KHAR	Dec	25	1032	U	1045	D	116	0.68-0.70	H-alpha	S
KHAR	Dec	27	0918	U	0925	D	099	0.93	H-alpha	S
POTS	Dec	30	1143.9		1145.8				400-250 MHz	IV
POTS	Dec	30	1147.1		1153.0				400-200 MHz	II U-shaped
POTS	Dec	30	1316.0		1320.0				800-100 MHz	IV
POTS	Dec	30	1320.6		1325	U			350-100 MHz	II Harmonic
ONDR	Dec	30	1321.3		1324.2				Meter	II
WEIS	Dec	30	1321.3		1324.3				280-210 MHz	II
KHAR	Dec	31	0900	E	0916	D	259	0.84	H-alpha	S

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1990

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	AFS	0520E	1036D	N05	W47	11 27.8		02	9	9	E	LEAR		
01	DSD	0740E	1036D	S21	E41	12 4.5		03	9	9	E	LEAR	6387	
01	DSD	1150E	1303D	N14	E11	12 2.3		03	9	9	E	SVTO	6383	
01	ASR	1150E	1303D	N16	E90	12 8.3			9	9	E	SVTO		
01	ASR	1150E	1303D	S07	W90	11 24.8			9	9	E	SVTO	6377	
01	ASR	1150E	1303D	S16	W82	11 25.4			9	9	E	SVTO	6978	
01	AFS	1150E	1303D	S23	W27	11 29.5		02	9	9	E	SVTO		
01	DSD	1315E	1610D	N14	E11	12 2.4		03	9	9	E	RAMY	6383	
01	ASR	1321E	2103D	N11	E88	12 8.2			9	9	E	RAMY		
01	APR	1321E	2103D	N18	E89	12 8.3	2		9	9	E	RAMY		
01	AFS	1326E	1904D	N08	E30	12 3.8		02	9	9	E	RAMY	6391	
01	ADF	1332E	1906D	S05	W07	12 1.0	1	06	9	9	E	RAMY	6388	
01	AFS	1339E	2103D	S24	W15	11 30.4		01	9	9	E	RAMY		
01	AFS	1340E	2103D	S23	W29	11 29.4		02	9	9	E	RAMY		
01	DSD	1341E	1615D	N04	W50	11 27.9		03	9	9	E	RAMY		
01	AFS	1341E	2103D	N05	W53	11 27.7		03	9	9	E	RAMY		
01	ASR	1342E	2103D	S04	W90	11 24.9			9	9	E	RAMY	6377	
01	ASR	1549E	2342D	N04	W90	11 25.0			9	9	E	HOLL	6377	
01	ASR	1549E	2342D	N12	E90	12 8.4			9	9	E	HOLL		
01	APR	1549E	2342D	N19	E90	12 8.5	1		7	7	E	HOLL		
01	AFS	1551E	2342D	N13	E10	12 2.4		02	9	9	E	HOLL	6383	
01	AFS	1557E	2342D	N10	E31	12 4.0		01	9	9	E	HOLL	6391	
01	ADF	1559E	2342D	N01	W52	11 27.9	1	04	8	8	E	HOLL		
01	SSB	1610		S55	W23	11 27.5			0	0	E	HOLL		382 W50
01	AFS	1635E	2103D	S05	W33	11 29.3		02	9	9	E	RAMY	6379	
01	AFS	1715E	0345D	N04	W54	11 27.8		02	9	9	E	PALE		
01	ASR	1715E	0345D	N13	E88	12 8.3			9	9	E	PALE		
01	ASR	1715E	0345D	S07	W90	11 25.1			9	9	E	PALE	6377	
01	AFS	1715E	2040D	N09	E30	12 4.0		02	9	9	E	PALE	6391	
01	AFS	1715E	2225D	N13	E10	12 2.5		02	9	9	E	PALE	6383	
01	DSD	1725E	0345D	N16	E70	12 7.0		04	9	9	E	PALE		
01	AFS	1725E	0345D	N35	E54	12 6.0		03	9	9	E	PALE	6390	
01	SSB	1810		S55	W24	11 27.6			0	0	E	PALE		380 W50
01	DSD	1817E	2103D	N33	E52	12 5.9		03	9	9	E	RAMY	6390	
01	SSB	1830		S46	W15	11 28.4			0	0	E	RAMY		370 W39 386 W55
01	ADF	2043E	0345D	S07	W32	11 29.6		06	9	9	E	PALE	6379	
01	AFS	2255E	1033D	N33	E49	12 5.8		04	9	9	E	LEAR	6390	
01	AFS	2256E	1033D	S25	E36	12 4.7		02	9	6	E	LEAR	6387	
02	ASR	0026E	1033D	S05	W90	11 25.4			9	9	E	LEAR	6377	
02	ADF	0035E	0345D	S05	W13	12 1.0	1	12	9	9	E	PALE	6388	
02	ASR	0140	0345D	N10	E88	12 8.7			9	9	E	PALE		
02	ASR	0145E	1033D	N08	E90	12 8.8			9	9	E	LEAR		
02	SSB	1248		S40	W20	11 29.6			0	0	E	SVTO		304 W00
02	ASR	1340E	1655D	N12	E88	12 9.2			9	9	E	RAMY		
02	APR	1340E	2028D	N08	E86	12 9.0	2		9	9	E	RAMY		
02	ADF	1340E	2052D	N09	E72	12 8.0	2	08	9	9	E	RAMY		
02	AFS	1403E	2046D	S21	W42	11 29.5		02	7	7	E	RAMY	6396	
02	DSD	1412E	1703D	N14	W05	12 2.2		02	9	9	E	RAMY	6383	
02	DSD	1412E	1703D	N16	W01	12 2.5		02	9	9	E	RAMY	6383	
02	SSB	1621		S41	W22	11 29.6			0	0	E	HOLL		385 W66
02	ADF	1624E	2347D	S04	W47	11 29.3	1	07	9	9	E	HOLL	6379	
02	AFS	1630E	2347D	N08	E17	12 4.0		02	9	9	E	HOLL	6391	
02	AFS	1633E	2347D	S23	W29	11 30.4		02	9	9	E	HOLL		
02	AFS	1635E	2347D	N14	E54	12 6.8		02	9	9	E	HOLL		
02	AFS	1636E	2347D	S34	E20	12 4.3		02	9	9	E	HOLL		
02	SSB	1854		S39	W22	11 29.9			0	0	E	RAMY		369 W52
02	DSD	2032E	0235D	N14	W05	12 2.5		02	9	9	E	PALE	6383	
02	DSD	2032E	0235D	N36	E40	12 6.1		03	9	9	E	PALE	6390	
02	AFS	2032E	0235D	S06	W49	11 29.3		02	9	9	E	PALE	6379	
02	ADF	2032E	0235D	S23	E25	12 4.8	1	06	9	9	E	PALE	6387	
02	DSD	2032E	0235D	S29	W48	11 29.2		04	9	9	E	PALE	6392	
02	ADF	2044E	0235D	N12	E74	12 8.4		04	9	9	E	PALE	6397	
02	DSD	2044E	0235D	N12	E82	12 9.0		06	9	9	E	PALE	6397	
02	DSD	2044E	0235D	N19	E70	12 8.2		02	9	9	E	PALE	6395	
02	DSD	2048E	0235D	S26	W30	11 30.5		02	9	9	E	PALE		
02	DSD	2055E	2347D	S04	W30	11 30.6		02	9	9	E	HOLL	6381	
02	ADF	2245E	1040D	N18	E59	12 7.4	1	15	9	9	E	LEAR	6395	
03	ADF	0935E	1002	S20	E53	12 7.4	1				V	KHAR		

ACTIVE PROMINENCES AND FILAMENTS

87
Dec 90

DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	Cmd	CHP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
03	BSL	1028E	1040D	S33	E90	12 10.6	1				V	KHAR		
03	SSB	1455		S37	W30	11 30.7			0	0	E	HOLL		
03	AFS	1505E	2348D	S06	W58	11 29.4		02	9	9	E	HOLL	6379	
03	AFS	1530E	2348D	N22	E46	12 7.2		02	9	9	E	HOLL	6399	
03	DSD	1532E	2348D	S22	W46	11 30.1		02	9	9	E	HOLL	6400	
03	AFS	1545E	2348D	S10	E32	12 6.1		02	8	7	E	HOLL		
03	DSD	1621E	1800D	W11	E70	12 8.9		02	9	9	E	RAMY	6397	
03	DSD	1621E	2106D	N09	E58	12 8.0		03	9	9	E	RAMY	6397	
03	AFS	1623E	2106D	W15	E42	12 6.9		02	9	9	E	RAMY	6398	
03	AFS	1624E	2106D	N21	E46	12 7.2		03	9	9	E	RAMY	6399	
03	ADF	1625E	2106D	W20	E56	12 8.0	1	11	9	9	E	RAMY	6395	
03	ADF	1644E	1810D	N34	E23	12 5.5	1	05	9	9	E	RAMY	6390	
03	DSD	1645E	1941D	W17	W18	12 2.3		03	9	9	E	RAMY	6383	
03	AFS	1715E	2348D	N14	W20	12 2.2		02	9	9	E	HOLL	6383	
03	ASR	1741E	0057D	S32	E90	12 10.9			9	9	E	PALE		
03	APR	1741E	0328D	N22	E90	12 10.6			9	9	E	PALE		
03	ADF	1822E	0328D	N09	E66	12 8.7	1	05	9	9	E	PALE	6397	
03	DSD	1822E	0328D	N16	E42	12 6.9		02	9	9	E	PALE	6398	
03	ADF	1822E	0328D	W17	W17	12 2.5	1	03	9	9	E	PALE	6383	
03	DSD	1822E	0328D	N22	E47	12 7.4		03	9	9	E	PALE	6399	
03	AFS	1822E	0328D	S10	E32	12 6.2		02	9	9	E	PALE		
03	AFS	1822E	0328D	S23	W55	11 29.6		03	9	9	E	PALE	6396	
03	ASR	1921E	2105D	S29	E90	12 10.9			9	9	E	RAMY		
03	DSD	1947E	2057D	S22	W05	12 3.4		03	9	9	E	RAMY	6393	
03	APR	2120E	2348D	N27	E90	12 10.9	1		9	9	E	HOLL		
03	DSD	2148E	2348D	S07	W67	11 29.0		01	9	9	E	HOLL	6379	
03	AFS	2152E	2348D	N33	E24	12 5.8		03	9	9	E	HOLL	6390	
03	AFS	2155E	2348D	N15	E37	12 6.7		01	9	9	E	HOLL	6398	
03	ADF	2202E	2348D	W15	E51	12 7.8	1	07	9	9	E	HOLL	6395	
03	ADF	2323E	1040D	N16	E51	12 7.8	1	04	9	9	E	LEAR	6395	
03	DSD	2328E	0836D	S05	W66	11 29.1		03	9	9	E	LEAR	6379	
03	ADF	2330E	1040D	N12	W25	12 2.1	1	02	9	9	E	LEAR	6383	
03	AFS	2339E	1040D	S22	W59	11 29.5		02	9	9	E	LEAR	6396	
03	ADF	2345E	1040D	S24	W47	11 30.3	1	02	9	9	E	LEAR	6400	
04	APR	0005E	0300D	S21	W90	11 27.2	1				C	VORO		
04	DSD	1108E	1649D	S22	W60	11 29.9		03	9	9	E	RAMY	6396	
04	AFS	1109E	2128D	N21	E35	12 7.1		02	9	9	E	RAMY	6399	
04	ADF	1113E	2128D	W11	E47	12 8.0	1	06	9	9	E	RAMY	6397	
04	DSD	1131E	1937D	S24	W53	11 30.4		03	9	9	E	RAMY	6400	
04	ASR	1138E	1937D	N06	W90	11 27.8			8	8	E	RAMY	6394	
04	ADF	1140E	1649D	S13	W32	12 2.1	1	17	9	9	E	RAMY	6388	
04	SSB	1206		S46	W51	11 30.6			0	0	E	RAMY		
04	DSD	1432E	1634D	N10	E55	12 8.7		04	9	9	E	RAMY	6397	Flare Associated
04	AFS	1502E	2348D	S24	W58	11 30.1		03	9	9	E	HOLL	6400	
04	AFS	1510E	2348D	N15	E30	12 6.9		02	7	7	E	HOLL	6398	
04	AFS	1510E	2348D	N21	E34	12 7.2		02	8	8	E	HOLL	6399	
04	AFS	1511E	2348D	S04	E02	12 4.8		01	9	9	E	HOLL		
04	ADF	1513E	2348D	W11	E40	12 7.6	1	04	8	8	E	HOLL	6395	
04	DSD	1640E	1937D	N16	W30	12 2.4		04	9	9	E	RAMY	6383	
04	DSD	1655E	1959D	S16	W14	12 3.6		03	9	9	E	RAMY	6385	
04	ASR	1800E	1956D	N03	W90	11 28.1			9	9	E	PALE		
04	ADF	1940E	0227D	N16	W30	12 2.5	1	08	9	9	E	PALE	6383	
04	DSD	1950E	0227D	N10	E51	12 8.6		02	9	9	E	PALE	6397	
04	ADF	1950E	0227D	N16	E41	12 7.9		09	9	9	E	PALE	6395	
04	ADF	1950E	0227D	S16	E18	12 6.2		09	9	8	E	PALE	6402	
04	DSD	1950E	0227D	S23	W71	11 29.4		02	9	9	E	PALE	6396	
04	AFS	1950E	0227D	S24	W61	11 30.1		04	9	9	E	PALE	6400	
04	ADF	2325E	1045D	N23	E40	12 8.0	1	04	9	9	E	LEAR	6395	
04	ADF	2355E	0258D	S17	E11	12 5.8	1				C	VORO		
05	SDF	0227E	2000D	S07	E07	12 5.6		10	0	0	E	PALE		
05	AFS	0622E	0000	S24	W66	11 30.2		05	9	9	E	LEAR	6400	
05	DSD	0622E	1045D	S24	W64	11 30.3		03	9	9	E	LEAR	6400	
05	AFS	1137E	2114D	S25	W02	12 5.3		02	9	9	E	RAMY	6387	
05	ADF	1138E	2114D	S11	E15	12 6.6	1	23	9	9	E	RAMY		
05	AFS	1500E	2130D	N10	E36	12 8.3		02	8	8	E	HOLL	6397	
05	ADF	1500E	2130D	N13	E27	12 7.7	1	06	9	9	E	HOLL	6395	
05	AFS	1506E	2130D	S25	W09	12 4.9		03	9	9	E	HOLL	6387	
05	AFS	1506E	2130D	S34	W18	12 4.2		01	8	8	E	HOLL	6406	

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
05	AFS	1509E	2130D	S21	W35	12	2.9		02	9	9	E	HOLL	6393	
05	ASR	1510E	2130D	S06	W90	11	29.0			9	9	E	HOLL	6379	
05	AFS	1512E	2130D	S24	W72	11	30.1		04	9	9	E	HOLL	6400	
05	AFS	1748E	0345D	S22	W34	12	3.1		03	9	9	E	PALE	6393	
05	AFS	1748E	0345D	S26	W10	12	5.0		03	9	9	E	PALE	6387	
05	BSD	1748E	2305D	S26	E76	12	11.6		02	9	9	E	PALE		
05	ADF	1755E	0345D	N09	E40	12	8.7		09	9	9	E	PALE	6397	
05	AFS	2132E	0345D	N09	E36	12	8.6		04	9	9	E	PALE	6397	
05	AFS	2247E	0552D	N09	E31	12	8.3		04	9	9	E	LEAR	6397	
05	AFS	2251E	0552D	S21	W40	12	2.9		03	9	9	E	LEAR	6393	
05	DSD	2304E	0345D	S26	W14	12	4.9		03	9	9	E	PALE	6387	
05	DSD	2309E	0552D	S25	W14	12	4.9		03	9	9	E	LEAR	6387	
06	DSD	0120E	0345D	N08	W35	12	3.4		03	9	9	E	PALE	6391	
06	ASR	0515E	0552D	N23	W90	11	29.4			9	9	E	LEAR	6400	
06	SDF	1055E	0120D	S10	W10	12	5.7		25	0	0	E	LEAR		
06	AFS	1540E	2348D	N10	E22	12	8.3		02	8	8	E	HOLL	6397	
06	AFS	1541E	2348D	N19	E19	12	8.1		01	8	8	E	HOLL	6395	
06	ASR	1542E	2348D	S26	W85	11	30.0			9	9	E	HOLL	6400	
06	AFS	1550E	2348D	S12	W10	12	5.9		01	9	9	E	HOLL	6402	
06	AFS	1552E	2348D	S22	W48	12	3.0		01	8	8	E	HOLL	6393	
06	AFS	1654E	2135D	S11	W10	12	5.9		02	9	9	E	RAMY	6402	
06	DSD	1655E	2135D	N08	E18	12	8.0		04	9	9	E	RAMY	6397	
06	AFS	1655E	2135D	N10	E23	12	8.4		04	9	9	E	RAMY	6397	
06	AFS	1657E	2135D	N19	E19	12	8.1		03	9	9	E	RAMY	6395	
06	ASR	1659E	2135D	S22	W90	11	29.9			9	9	E	RAMY	6400	
06	ASR	1659E	2135D	S30	W90	11	29.7			9	9	E	RAMY	6400	
06	AFS	1701E	2135D	S21	W48	12	3.0		03	9	9	E	RAMY	6393	
06	DSD	1702E	2135D	S22	W22	12	5.0		03	9	9	E	RAMY	6387	
06	AFS	1702E	2135D	S24	W22	12	5.0		02	9	9	E	RAMY	6387	
06	SSB	1704		269	W04	12	11.9			0	0	E	RAMY		
06	AFS	1711E	2348D	S29	E18	12	8.1		02	9	9	E	HOLL		
06	AFS	1715E	0105D	S25	W23	12	4.9		02	9	9	E	PALE	6387	
06	AFS	1715E	0346D	N10	E22	12	8.4		03	9	9	E	PALE	6397	
06	AFS	1715E	0346D	N20	E18	12	8.1		03	9	9	E	PALE	6395	
06	AFS	1715E	0346D	S17	E29	12	8.9		03	9	9	E	PALE		
06	DSD	1715E	0346D	S25	W20	12	5.2		04	9	9	E	PALE	6387	
06	ASR	1715E	0346D	S26	W90	11	29.8			9	9	E	PALE	6400	
06	ADF	1745E	0346D	S22	W49	12	3.0		05	9	9	E	PALE	6393	
06	SSB	1755		271	W06	12	12.1			0	0	E	PALE		
06	ADF	1950E	2245D	S26	E67	12	12.0	1	08	9	9	E	PALE	6406	
06	AFS	1953E	2135D	S18	E27	12	8.9		03	9	9	E	RAMY	6404	
06	DSD	1957E	2135D	S10	E62	12	11.5		03	9	9	E	RAMY	6405	
06	DSD	2250E	0346D	S18	E27	12	9.0		03	9	9	E	PALE	6404	
07	AFS	0130E	1044D	S23	W56	12	2.7		03	6	7	E	LEAR	6393	
07	ASR	0150E	1044D	S28	W90	11	30.0			9	9	E	LEAR	6400	
07	AFS	0155E	1044D	S22	W30	12	4.8		04	9	9	E	LEAR	6387	
07	BSL	0155E	0219	S30	W90	11	30.0	1				C	VORO		
07	AFS	0205E	0346D	S23	W28	12	4.9		03	9	9	E	PALE	6387	
07	BSL	0250	0300D	S24	W90	11	30.2	1				C	VORO		
07	AFS	0315E	0346D	S11	W18	12	5.8		02	9	9	E	PALE	6402	
07	ASR	0714E	1320D	S28	W90	11	30.3			9	9	E	SVTO	6400	
07	AFS	0715E	1320D	S23	W30	12	5.0	1	03	9	9	E	SVTO	6387	
07	AFS	0716E	1320D	S13	W20	12	5.8		02	9	9	E	SVTO	6402	
07	AFS	0717E	1320D	S16	E21	12	8.9		02	8	8	E	SVTO	6404	
07	SSB	0718		270	W12	12	12.6			0	0	E	SVTO		
07	AFS	1112E	2110D	S17	E20	12	9.0		02	9	9	E	RAMY	6404	
07	AFS	1114E	2110D	N08	E13	12	8.4		02	7	6	E	RAMY	6397	
07	AFS	1114E	2110D	N20	E07	12	8.0		02	9	9	E	RAMY	6395	
07	DSD	1125E	1745D	N11	E07	12	8.0		03	9	9	E	RAMY	6397	
07	DSD	1130E	2110D	N14	W08	12	6.9		02	9	9	E	RAMY	6398	
07	DSD	1131E	2110D	S21	W32	12	5.0		02	9	9	E	RAMY	6387	
07	AFS	1131E	2110D	S23	W32	12	5.0		04	9	9	E	RAMY	6387	
07	APR	1134E	2110D	S28	W90	11	30.4	2		9	9	E	RAMY	6400	
07	AFS	1614E	2348D	S17	E16	12	8.9		03	9	9	E	HOLL	6404	
07	AFS	1616E	2231D	S10	E49	12	11.3		02	9	9	E	HOLL	6405	
07	AFS	1618E	2348D	N33	W23	12	5.8		02	9	9	E	HOLL	6390	
07	AFS	1620E	2348D	S10	W21	12	6.1		03	9	9	E	HOLL	6402	
07	AFS	1623E	2348D	S13	W42	12	4.5		02	9	9	E	HOLL		

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	ADF	1625E	2234D	N16	E02	12 7.8	1	06	9	9	E	HOLL	6395	
07	AFS	1629E	2348D	N19	E05	12 8.1		02	9	9	E	HOLL	6395	
07	AFS	1641E	2348D	S23	W36	12 4.9		03	9	9	E	HOLL	6387	
07	AFS	1710E	0303D	S14	W42	12 4.5		02	9	9	E	PALE		
07	DSD	1710E	0303D	S17	E17	12 9.0		03	9	9	E	PALE	6404	
07	AFS	1710E	0303D	S25	W36	12 4.9		03	9	9	E	PALE	6387	
07	ASR	1710E	2020D	S26	W90	11 30.7			9	9	E	PALE	6400	
07	AFS	1718E	0303D	N19	E03	12 7.9		03	9	9	E	PALE	6395	
07	AFS	1718E	2034D	N09	E07	12 8.2		03	9	9	E	PALE	6397	
07	SSB	1725		294	W42	12 15.4			0	0	E	PALE		
07	SSB	1728		293	W41	12 15.3			0	0	E	HOLL		
07	ADF	1934E	2110D	S33	E40	12 11.0	1	05	9	9	E	RAMY		
07	SSB	1935		268	W17	12 13.0			0	0	E	RAMY		292 W41
07	DSD	2035E	0303D	N15	W15	12 6.7		02	9	9	E	PALE	6398	
07	DSD	2145E	0303D	S23	W39	12 4.9		04	9	9	E	PALE	6387	
07	ASR	2217E	0303D	N09	E90	12 14.7			9	9	E	PALE		
07	ADF	2220E	0303D	S23	W63	12 3.1		07	9	9	E	PALE	6393	
07	AFS	2237E	0303D	S12	W27	12 5.9		03	9	9	E	PALE	6402	
07	ADF	2238E	1046D	N17	E01	12 8.0	1	10	9	9	E	LEAR	6395	
08	ADF	0004E	0300D	N27	W48	12 4.3	1				C	VORO		
08	AFS	0208E	1046D	N15	W18	12 6.7		02	9	9	E	LEAR	6398	
08	AFS	0211E	1046D	N24	E69	12 13.4		01	9	9	E	LEAR		
08	ASR	0506E	1046D	S19	W90	12 1.3			9	9	E	LEAR	6382	
08	AFS	0701E	1242D	S25	W44	12 4.9		03	8	7	E	SVTO	6387	
08	DSD	0711E	0800D	N13	W21	12 6.7		07	9	9	E	SVTO	6398	Flare Associated
08	DSD	0715	1046D	N13	W22	12 6.6		08	9	9	E	LEAR	6398	Flare Associated
08	DSD	0715	1046D	N15	W21	12 6.7		03	9	9	E	LEAR	6398	Flare Associated
08	AFS	0728E	1452D	N14	W20	12 6.8		02	9	9	E	SVTO	6398	
08	AFS	0737E	1452D	S12	W30	12 6.0		02	9	9	E	SVTO	6402	
08	AFS	0748E	1452D	S19	E06	12 8.8		02	9	9	E	SVTO	6404	
08	ADF	0751E	1249D	S11	E42	12 11.5	1	10	9	9	E	SVTO	6405	
08	DSD	0800E	0832D	N14	W22	12 6.7		02	9	9	E	SVTO	6398	
08	AFS	0809E	1452D	S16	W53	12 4.3		03	9	9	E	SVTO	6407	
08	SSB	0814		270	W26	12 13.8			0	0	E	SVTO		
08	AFS	0846E	1452D	N19	W04	12 8.0		02	9	9	E	SVTO	6395	
08	SSB	1120		267	W25	12 13.7			0	0	E	RAMY		302 W60
08	AFS	1120E	1947D	N14	W20	12 7.0		02	9	9	E	RAMY	6398	
08	AFS	1133E	1947D	S14	W52	12 4.5		02	9	9	E	RAMY	6407	
08	APR	1208E	1947D	N22	E90	12 15.4	1		9	9	E	RAMY		
08	AFS	1208E	1947D	N24	E70	12 13.9		02	9	9	E	RAMY		
08	APR	1214E	1452D	N26	E90	12 15.5	1		9	9	E	SVTO		
08	AFS	1219E	1947D	S26	E40	12 11.6		02	9	9	E	RAMY	6406	
08	AFS	1230E	1452D	N27	E66	12 13.7		02	9	9	E	SVTO		
08	DSD	1231E	1452D	N14	W24	12 6.7		03	9	9	E	SVTO	6398	
08	DSD	1233E	1947D	N16	W21	12 6.9		04	9	9	E	RAMY	6398	
08	AFS	1235E	1947D	S10	W31	12 6.2		03	9	9	E	RAMY	6402	
08	SDF	1452E	0900D	N02	W39	12 5.7		13	0	0	E	SVTO		
08	SDF	1452E	0900D	N37	E20	12 10.2		15	0	0	E	SVTO		
08	AFS	1519E	2346D	S18	E02	12 8.8		02	9	9	E	HOLL	6404	
08	AFS	1520E	2018D	S11	W35	12 6.0		03	9	9	E	HOLL	6402	
08	ADF	1521E	2018D	S08	W40	12 5.6	1	05	9	9	E	HOLL	6402	
08	AFS	1532E	2346D	N15	W25	12 6.7		03	9	9	E	HOLL	6398	
08	DSD	1533E	2346D	N16	W24	12 6.8		03	9	9	E	HOLL	6398	
08	DSD	1540E	2346D	N19	W10	12 7.9		02	9	9	E	HOLL	6395	
08	AFS	1541E	2346D	N18	W11	12 7.8		03	9	9	E	HOLL	6395	
08	APR	1547E	1947D	S22	W90	12 1.7	2		9	9	E	RAMY	6382	
08	APR	1553E	1557D	S22	W90	12 1.7	2		9	9	E	HOLL	6382	
08	DSD	1601	1947D	S11	W34	12 6.1		03	9	9	E	RAMY	6402	
08	ADF	1605E	1947D	S32	E28	12 10.9	1	08	9	9	E	RAMY		
08	AFS	1609E	2346D	S23	W49	12 4.9		02	9	9	E	HOLL	6387	
08	AFS	1611E	2346D	S15	W57	12 4.3		02	9	9	E	HOLL	6407	
08	CAP	1612E	2346D	N27	E90	12 15.7		02	9	9	E	HOLL		
08	ASR	1632E	1947D	N29	E90	12 15.7			9	9	E	RAMY		
08	SSB	1635		259	W19	12 13.2			0	0	E	HOLL		271 W31 305 W65
08	ASR	1732E	0052D	S08	W90	12 2.0			9	8	E	PALE	6382	
08	ASR	1903E	2346D	N31	E90	12 15.9			9	9	E	HOLL		
08	ASR	1911	1947D	S13	W90	12 2.0			9	9	E	RAMY	6382	
08	AFS	1918E	0052D	N14	W28	12 6.7		04	9	9	E	PALE	6398	
08	DSD	1918E	0052D	N17	W31	12 6.4		05	9	9	E	PALE	6398	

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1990

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
08	DSD	1918E	0052D	N21	W12	12	7.9		02	9	9	E	PALE	6395	
08	DSD	1918E	0052D	S13	W39	12	5.9		02	9	9	E	PALE	6402	
08	AFS	1918E	0052D	S16	W60	12	4.2		03	9	9	E	PALE	6407	
08	DSD	1918E	0052D	S24	E35	12	11.5		02	9	9	E	PALE	6406	
08	SDF	1921E	1420D	N10	W56	12	4.6		14	0	0	E	RAMY		
08	SDF	1921E	1420D	N23	E70	12	14.2		14	0	0	E	RAMY		
08	ADF	2015E	2224D	S21	W74	12	3.2	2	09	9	9	E	HOLL	6393	
08	ASR	2223E	2346D	N06	E90	12	15.7			9	9	E	HOLL		
08	AFS	2234E	1039D	N14	W27	12	6.9		04	9	9	E	LEAR	6398	
08	DSD	2234E	1039D	N16	W31	12	6.6		04	9	9	E	LEAR	6398	
08	ASR	2323E	1039D	S20	W90	12	2.1			9	9	E	LEAR	6385	
08	ASR	2329E	0052D	N09	E90	12	15.7			9	6	E	PALE		
09	AFS	0226E	1039D	N09	W15	12	8.0		02	9	9	E	LEAR	6397	
09	ASR	0443E	1039D	N06	E90	12	15.9			9	9	E	LEAR		
09	APR	1108E	2133D	N02	E90	12	16.2	2		9	9	E	RAMY	6410	
09	DSD	1109E	1651D	S16	W63	12	4.7		03	9	9	E	RAMY	6407	
09	ADF	1112E	2133D	S38	E21	12	11.2	1	12	9	9	E	RAMY		
09	DSD	1118E	1651D	N21	W33	12	6.9		04	9	9	E	RAMY	6399	
09	DSD	1120E	1651D	N14	W37	12	6.7		04	9	9	E	RAMY	6398	
09	DSD	1132E	2050D	N08	W14	12	8.4		03	9	9	E	RAMY	6397	
09	ASR	1137E	1334D	N07	W90	12	2.7			9	9	E	RAMY	6391	
09	DSD	1138E	2050D	S23	W59	12	4.9		03	9	9	E	RAMY	6387	
09	SSB	1238		231	W02	12	11.8			0	0	E	RAMY		259 W30 298 W69
09	ASR	1337E	1505D	N07	E88	12	16.1			9	9	E	RAMY		
09	DSD	1425E	2349D	S24	W56	12	5.3		03	9	9	E	HOLL	6387	
09	ADF	1426E	2349D	S13	W37	12	6.8	1	06	9	9	E	HOLL	6398	
09	SSB	1432		307	W79	12	8.9			0	0	E	HOLL		
09	DSD	1511E	1651D	N06	E82	12	15.8		03	9	9	E	RAMY	6410	
09	ASR	1619E	2349D	S23	W90	12	2.7			9	9	E	HOLL	6393	
09	DSD	1621	2320D	N22	W35	12	7.0		03	9	9	E	HOLL	6399	
09	AFS	1622E	2349D	S10	W50	12	5.9		03	9	9	E	HOLL	6402	
09	AFS	1627E	2349D	N19	W22	12	8.0		03	9	9	E	HOLL	6395	
09	DSD	1647E	2050D	S18	W06	12	9.2		02	9	9	E	RAMY	6404	
09	ADF	1843E	2349D	N12	W40	12	6.8	2	04	9	9	E	HOLL	6398	
09	ADF	1843E	2349D	N15	W37	12	7.0	2	07	9	9	E	HOLL	6398	
09	DSD	1854E	0330D	S15	W77	12	3.9		05	9	9	E	PALE	6385	
09	DSD	1857E	0330D	S27	W65	12	4.7		04	9	9	E	PALE	6387	
09	ADF	1906E	0330D	N12	W30	12	7.5		05	9	9	E	PALE	6395	
09	AFS	1906E	0330D	N14	W41	12	6.7		04	9	9	E	PALE	6398	
09	DSD	1906E	0330D	N19	W26	12	7.8		02	9	9	E	PALE	6395	
09	AFS	1919E	0330D	S11	W52	12	5.9		04	9	9	E	PALE	6402	
09	ADF	1919E	0330D	S12	E25	12	11.7	1	04	9	9	E	PALE	6405	
09	DSD	1919E	0330D	S18	W11	12	9.0		02	9	9	E	PALE	6404	
09	ADF	1927E	0330D	N29	E09	12	10.5	1	17	9	9	E	PALE	6406	
09	ASR	1943E	0330D	N13	E90	12	16.6			9	7	E	PALE	6410	
09	ASR	2237E	0100D	N23	E90	12	16.9			9	9	E	PALE		
09	AFS	2317E	1045D	N14	W44	12	6.6		04	9	9	E	LEAR	6398	
09	AFS	2319E	1045D	S11	W56	12	5.7		04	9	9	E	LEAR	6402	
10	DSD	0554E	0650D	N13	W47	12	6.7		06	9	9	E	LEAR	6398	
10	DSD	0750E	0855D	N16	W48	12	6.7		15	9	9	E	LEAR	6398	
10	DSD	0957E	1008D	N14	W49	12	6.7		06	9	9	E	LEAR	6398	
10	APR	1106E	2035D	N10	E90	12	17.2	1		8	8	E	RAMY		
10	ADF	1110E	1850D	S23	E10	12	11.2	1	15	9	9	E	RAMY	6406	
10	AFS	1121	2035D	S11	W60	12	5.9		02	9	9	E	RAMY	6402	
10	AFS	1123E	2035D	N21	W48	12	6.8		02	8	8	E	RAMY	6399	
10	AFS	1245E	2035D	N21	W51	12	6.6		02	9	9	E	RAMY	6399	
10	DSD	1247E	1426D	N14	W53	12	6.5		05	9	9	E	RAMY	6398	
10	AFS	1247E	2035D	N15	W51	12	6.7		03	9	9	E	RAMY	6398	
10	ADF	1252E	2035D	N07	W29	12	8.4	1	08	9	9	E	RAMY	6397	
10	SSB	1311		231	W16	12	12.9			0	0	E	RAMY		
10	ASR	1425E	1904D	S14	W90	12	3.8			9	9	E	RAMY	6385	
10	ADF	1443E	2345D	N13	W49	12	6.9	1	06	9	9	E	HOLL	6398	
10	AFS	1528E	1638D	S12	W69	12	5.4		02	9	9	E	RAMY	6407	
10	DSD	1632E	1923D	N04	E64	12	15.5		03	9	9	E	RAMY	6410	
10	ASR	1814E	2025D	S13	W90	12	4.0			9	9	E	PALE	6385	
10	ADF	1828E	0335D	N14	W51	12	6.9	1	04	9	9	E	PALE	6398	
10	DSD	1849E	1923D	N06	E59	12	15.2		15	9	9	E	RAMY	6410	
10	DSD	1850E	2030D	N09	E61	12	15.4		10	8	9	E	PALE	6410	

ACTIVE PROMINENCES AND FILAMENTS

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DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
10	DSD	1932E	0024D	N08	W30	12	8.6		02	9	9	E	PALE	6397	Flare Associated
10	AFS	2244E	1042D	N20	W57	12	6.6		01	9	9	E	LEAR	6399	
10	AFS	2244E	1042D	N21	W53	12	6.9		01	9	9	E	LEAR	6399	
10	ASR	2248E	1042D	S15	W90	12	4.1			9	9	E	LEAR	6407	
10	AFS	2340E	1042D	N09	W32	12	8.6		03	9	9	E	LEAR	6397	
10	ADF	2341E	1042D	N14	W55	12	6.8		07	9	9	E	LEAR	6398	
10	ASR	2342E	1042D	S23	W90	12	4.0			9	9	E	LEAR	6387	
10	ADF	2343E	1042D	N18	W39	12	8.0		06	9	9	E	LEAR	6395	
10	BSL	2346	2354	S13	W90	12	4.2	1				C	VORO		
11	BSL	0000	0023	S23	W90	12	4.1	1				C	VORO		
11	ADF	0012E	0335D	N17	W44	12	7.7	1	03	9	9	E	PALE	6395	
11	AFS	0048E	1042D	S18	W29	12	8.8		02	9	9	E	LEAR	6404	
11	DSD	0049E	1042D	N04	E54	12	15.1		02	9	9	E	LEAR	6410	
11	AFS	0050E	1042D	S24	E48	12	14.7		02	9	9	E	LEAR	6411	
11	APR	0051E	0525D	N15	E90	12	17.8	1		9	9	E	LEAR	6412	
11	APR	0051	0104	S16	W90	12	4.2	2				C	VORO		
11	ASR	0350E	0525D	N13	E83	12	17.4			9	9	E	LEAR	6412	
11	ASR	0525E	1042D	N12	E90	12	18.0			9	9	E	LEAR		
11	BSL	0636E	0903D	N35	W90	12	4.1	1				C	ABST		
11	BSL	0815E	0903D	N05	W90	12	4.6	1				C	ABST		
11	SSB	1011		196	W00	12	18.6			0	0	E	SVTO		
11	ASR	1011E	1414D	N16	E88	12	18.1			9	9	E	SVTO		
11	APR	1011E	1414D	N33	W90	12	4.3			7	7	E	SVTO	6390	
11	ASR	1011E	1414D	S14	W90	12	4.6			9	9	E	SVTO	6407	
11	ASR	1011E	1414D	S25	W85	12	4.8			9	9	E	SVTO	6387	
11	AFS	1043E	1414D	S23	E44	12	14.8		02	9	9	E	SVTO	6411	
11	ASR	1112E	2131D	S22	W90	12	4.5			9	9	E	RAMY	6387	
11	AFS	1114E	2131D	S11	W73	12	6.0		03	9	9	E	RAMY	6402	
11	ASR	1114E	2131D	S11	W90	12	4.7			9	9	E	RAMY	6402	
11	AFS	1115E	2131D	N13	W58	12	7.1		03	9	9	E	RAMY	6398	
11	AFS	1116E	2131D	N20	W59	12	6.9		02	9	9	E	RAMY	6399	
11	AFS	1119E	2131D	N19	W49	12	7.7		03	9	9	E	RAMY	6395	
11	ADF	1124E	2131D	N23	E35	12	14.2	1	07	9	9	E	RAMY	6408	
11	DSD	1131E	1428D	N03	E53	12	15.4		02	9	9	E	RAMY	6410	
11	DSD	1355E	1613D	N09	W41	12	8.5		03	9	9	E	RAMY	6397	
11	SDF	1414E	1257D	S32	W03	12	11.3		04	0	0	E	SVTO		
11	AFS	1514E	2215D	N11	E66	12	16.6		02	9	9	E	HOLL		
11	ASR	1515E	2349D	N23	E85	12	18.2			9	9	E	HOLL		
11	ASR	1525E	2349D	S13	W80	12	5.6			9	9	E	HOLL	6402	Flare Associated
11	ASR	1525E	2349D	S25	W90	12	4.7			9	9	E	HOLL	6387	
11	AFS	1613E	2349D	S24	E40	12	14.8		01	8	8	E	HOLL	6411	
11	DSD	1932E	0024D	N08	W30	12	9.6		02	9	9	E	PALE	6397	Flare Associated
11	AFS	1935E	0326D	N12	W67	12	6.8		03	9	9	E	PALE	6398	
11	ASR	1935E	0326D	N18	E89	12	18.6			9	9	E	PALE		
11	AFS	1935E	0326D	N20	W17	12	10.5		03	9	9	E	PALE	6399	
11	ADF	1935E	0326D	S02	E50	12	15.5		08	9	9	E	PALE	6410	
11	AFS	1935E	0326D	S23	E40	12	14.9		03	9	9	E	PALE	6411	
11	ASR	1943E	0326D	S25	W90	12	4.8			9	9	E	PALE	6387	
11	APR	2156E	2320D	S08	E90	12	18.7	2		4	7	E	HOLL		
11	DSD	2215E	2349D	N06	E42	12	15.1		03	9	9	E	HOLL	6410	
11	LPS	2223E	2349D	S27	W90	12	4.9			9	9	E	HOLL	6387	
11	LPS	2320E	0105D	S23	W90	12	5.0			9	9	E	LEAR	6387	
12	BSL	0015	0130	N16	W90	12	5.2	1				C	VORO		
12	ASR	0022E	1042D	S11	W81	12	5.9			9	9	E	LEAR	6402	
12	ASR	0022E	1042D	S24	W90	12	5.1			9	8	E	LEAR	6387	
12	AFS	0022E	1042D	S25	E36	12	14.8		02	9	9	E	LEAR	6411	
12	ADF	0023E	1042D	S24	E36	12	14.8	1	02	9	9	E	LEAR	6411	
12	ADF	0024E	1042D	S26	E33	12	14.6	1	02	9	9	E	LEAR	6411	
12	SSB	0030		196	W00	12	19.2			0	0	E	PALE		
12	ASR	0053E	0326D	S12	W86	12	5.5			9	9	E	PALE	6402	
12	BSL	0130E	0250	S09	W90	12	5.3	1				C	VORO		
12	BSL	0250	0300D	S26	W90	12	5.1	1				C	VORO		
12	AFS	0324E	1042D	N20	W68	12	6.9		02	9	9	E	LEAR	6499	
12	LPS	0338E	0403D	N18	W69	12	6.9			9	9	E	LEAR	6399	
12	BSL	0400E	0530D	N12	W70	12	6.9			9	9	E	LEAR	6368	
12	ADF	0407E	1042D	N18	W54	12	8.0	1	03	9	9	E	LEAR	6395	
12	ADF	0407E	1042D	N22	W57	12	7.8	1	03	9	9	E	LEAR	6395	
12	APR	0646E	1042D	S04	W90	12	5.5			9	9	E	LEAR	6302	

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
12	ASR	0646E	1042D	S11	W90	12	5.5			9	9	E	LEAR	6302	
12	APR	0706	0725	N22	W90	12	5.4	1				C	ABST		
12	LPS	0708E	0754D	N21	W70	12	6.9			9	9	E	LEAR	6399	
12	LPS	0719E	0756D	N19	W67	12	7.2			9	9	E	SVTO	6399	Flare Associated
12	BSL	0743E	0906D	N39	W90	12	5.0	1				C	ABST		
12	BSD	0913E	1404D	N18	E78	12	18.3		04	9	9	E	SVTO		Flare Associated
12	ASR	0925E	1404D	S12	W90	12	5.6			9	9	E	SVTO	6402	
12	ASR	1124E	1404D	S26	W90	12	5.5			9	9	E	SVTO	6387	
12	ASR	1224E	1404D	N11	W85	12	6.1			9	9	E	SVTO	6398	
12	SSB	1303		198	W08	12	19.9			0	0	E	SVTO		
12	ASR	1413E	2323D	N10	W72	12	7.2			9	9	E	HOLL	6398	
12	ASR	1427E	2323D	S11	W90	12	5.8			9	9	E	HOLL	6402	
12	BSD	1443E	1932D	N17	E72	12	18.1		04	9	9	E	HOLL		
12	DSD	1503E	2029D	N09	W59	12	8.2		02	9	9	E	RAMY	6397	
12	ADF	1506E	2029D	N21	W62	12	7.9	2	05	9	9	E	RAMY	6395	
12	APR	1534	2323D	S27	W90	12	5.6	2		9	9	E	HOLL	6387	
12	DSD	1535	1610	N05	E32	12	15.0		07	9	9	E	HOLL	6410	
12	ADF	2003E	0133D	N06	E41	12	15.9		05	9	9	E	PALE	6410	
12	DSD	2003E	0133D	N12	E57	12	17.1		03	9	9	E	PALE		
12	DSD	2003E	0133D	N17	W65	12	7.9		08	9	9	E	PALE	6397	
12	AFS	2003E	0133D	N20	W81	12	6.6		02	9	9	E	PALE	6399	
12	ASR	2003E	0133D	S13	W84	12	6.5			9	9	E	PALE	6402	
12	DSD	2003E	2340D	N10	W83	12	6.6		02	9	9	E	PALE	6398	
12	SSB	2110		196	W12	12	20.1			0	0	E	PALE		
12	AFS	2110E	2345D	S23	E23	12	14.6		03	7	7	E	PALE	6411	
12	ADF	2151E	2323D	N11	E58	12	17.3	1	03	9	9	E	HOLL		
12	ADF	2245E	0620D	N05	E36	12	15.6	1	04	9	9	E	LEAR	6410	
12	AFS	2250E	0615D						02	6	6	E	LEAR	6411	
12	APR	2259E	1047D	N36	W90	12	5.7	1		9	9	E	LEAR	6390	
12	DSD	2320E	1047D	N10	W63	12	8.2		02	9	9	E	LEAR	6397	
12	ASR	2335E	1047D	N20	W90	12	6.1			9	9	E	LEAR	6399	
12	ASR	2340E	0133D	N13	W87	12	6.4			9	9	E	PALE	6398	
13	AFS	0110E	0133D	N21	E67	12	18.2		03	9	9	E	PALE	6412	
13	SSB	0946		196	W18	12	20.7			0	0	E	SVTO		
13	SDF	0947E	1010D	N30	E04	12	13.7		05	0	0	E	SVTO		
13	SDF	0947E	1010D	N33	E20	12	15.0		10	0	0	E	SVTO		
13	ADF	1120E	2055D	N04	E30	12	15.7	1	05	9	9	E	RAMY	6410	
13	DSD	1158E	1846D	S24	E58	12	18.0		03	9	9	E	RAMY		
13	LPS	1317E	1401D	N16	E58	12	17.9			9	6	E	RAMY	6412	
13	BSL	1506	1525D	N14	W90	12	6.8			9	9	E	RAMY	6398	
13	ASR	1525E	2050D	N14	W90	12	6.8			9	9	E	RAMY	6398	
13	ASR	1542E	1614D	S11	W90	12	6.9			9	9	E	RAMY		
13	SSB	1626		106	W23	12	14.1			0	0	E	RAMY		152 W69
13	ASR	1745E	1950D	N20	W90	12	6.8			9	9	E	PALE	6399	
13	ASR	1747	1841D	N14	E90	12	20.5			9	9	E	RAMY	6398	
13	BSL	1755E	1804D	N14	E90	12	20.5			9	9	E	RAMY	6398	
13	SSB	1910		197	W24	12	21.3			0	0	E	PALE		
13	ADF	1910E	0106D	N13	E24	12	15.6		10	9	9	E	PALE	6410	
13	ADF	1910E	0212D	N23	E58	12	18.3		10	9	9	E	PALE	6412	
13	DSD	1910E	0223D	N08	W75	12	8.2		15	9	9	E	PALE	6397	
13	ASR	1910E	2145D	N17	W90	12	6.9			9	9	E	PALE	6398	
13	DSD	1910E	2243D	S19	W64	12	8.9		04	9	9	E	PALE	6404	
13	DSD	2140E	0256D	N12	E54	12	18.0		04	9	9	E	PALE	6412	
13	AFS	2155E	0256D	N16	E52	12	17.8		03	9	9	E	PALE	6412	
13	AFS	2238E	0927D	N16	E50	12	17.7		04	9	9	E	LEAR	6412	
13	ASR	2241E	0927D	N22	W90	12	7.0			9	9	E	LEAR	6395	
14	DSD	0104E	0256D	N05	E15	12	15.2		03	9	9	E	PALE	6410	
14	DSD	0610E	0927D	N04	E18	12	15.6		03	9	9	E	LEAR	6410	
14	SSB	1010		228	W32	12	16.6			0	0	E	SVTO		
14	AFS	1205E	1708D	N16	E43	12	17.8		02	9	8	E	RAMY	6412	
14	ADF	1205E	1708D	N20	W42	12	11.3	1	04	9	9	E	RAMY	6412	
14	DSD	1230E	1708D	N04	E08	12	15.1		02	9	9	E	RAMY	6410	
14	ADF	1232E	1708D	N12	E32	12	16.9	1	05	9	9	E	RAMY	6415	
14	DSD	1316E	1418D	N17	E40	12	17.6		04	9	9	E	SVTO	6412	
14	DSD	1339E	1418D	N16	E32	12	17.0		13	9	9	E	SVTO	6412	Flare Associated
14	SDF	1418E	0829D	N23	W18	12	13.2		10	0	0	E	SVTO		
14	APR	1536E	2220D	S25	W90	12	7.7	1		9	9	E	HOLL		
14	APR	1540E	2220D	N27	W90	12	7.6	1		9	9	E	HOLL	6399	

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
14	ASR	1542E	2220D	N08	W90	12	7.9			9	9	E	HOLL	6397	
14	APR	1544E	2220D	S35	E90	12	21.8	2		9	9	E	HOLL		
14	DSD	1602E	2220D	N15	E46	12	18.1		03	9	9	E	HOLL	6412	
14	ADF	1603E	2220D	N13	E47	12	18.2	1	04	9	9	E	HOLL	6412	
14	SSB	1630		197	W36	12	22.5			0	0	E	HOLL		
14	DSD	1634E	1734D	N20	E40	12	17.7		03	9	9	E	RAMY	6412	
14	SSB	1659		101	W39	12	14.8			0	0	E	RAMY		
14	ADF	2047E	0330D	N24	W11	12	14.0	1	12	9	9	E	PALE	6408	
14	ADF	2047E	0330D	S13	W49	12	11.2	1	15	9	9	E	PALE	6405	
14	AFS	2051E	0330D	N05	E14	12	15.9		04	9	9	E	PALE	6410	
14	DSD	2051E	0330D	N14	E32	12	17.3		04	9	9	E	PALE	6412	
14	AFS	2051E	0330D	N20	E43	12	18.1		03	9	9	E	PALE	6412	
14	SSB	2101		198	W18	12	22.3			0	0	E	PALE		
14	APR	2105E	0330D	S26	W90	12	7.9			9	9	E	PALE	6404	
14	APR	2109E	0330D	N23	W90	12	7.9			9	9	E	PALE	6395	
14	ASR	2116E	0330D	N28	E90	12	21.9			9	9	E	PALE		
14	APR	2116E	0330D	S36	E90	12	22.1			9	9	E	PALE		
14	ADF	2235E	0716D	N23	W14	12	13.9	1	13	9	9	E	LEAR	6408	
14	ASR	2241E	2305	N07	W90	12	8.2			9	9	E	PALE	6397	
14	DSD	2314E	0330D	N04	E13	12	15.9		03	9	9	E	PALE	6410	
15	APR	0006E	0301D	N29	W90	12	7.9	1				C	VORO		
15	APR	0006E	0301D	S25	W90	12	8.0	1				C	VORO		
15	SDF	0017E	0035D	N60	E27	12	17.4		12	0	0	E	LEAR		
15	BSL	0130	0155D	N23	W90	12	8.1	1				C	VORO		
15	ASR	0202E	0209D	N18	W90	12	8.2			9	9	E	PALE	6395	
15	BSL	0203	0301D	N19	W90	12	8.2	2				C	VORO		
15	EPL	0206E	0301	N20	W90	12	8.2			9	9	E	LEAR	6395	
15	BSL	0209E	0256D	N20	W90	12	8.2			9	9	E	PALE	6395	
15	ASR	0256E	0330D	N20	W90	12	8.2			9	9	E	PALE	6395	
15	SDF	0650	0653	N23	W14	12	14.2		13	9	9	E	LEAR	6408	Flare Associated
15	BSL	0744E	0826D	S34	E90	12	22.5	1				C	ABST		
15	SSB	0829		197	W45	12	23.4			0	0	E	SVTO		
15	AFS	1005E	1320D	N21	E31	12	17.8		04	9	9	E	SVTO	6412	
15	AFS	1006E	1320D	N04	E05	12	15.8		03	9	9	E	SVTO	6410	
15	ASR	1012E	1320D	N08	W90	12	8.7			9	9	E	SVTO	6397	
15	DSD	1118E	1513D	N17	E20	12	17.0		03	9	9	E	RAMY	6412	
15	AFS	1118E	2047D	N23	E22	12	17.2		02	9	9	E	RAMY	6412	
15	DSD	1128E	1517D	N06	W06	12	15.0		04	9	9	E	RAMY	6410	
15	AFS	1128E	2047D	N03	E04	12	15.8		03	9	9	E	RAMY	6410	
15	APR	1131E	1627D	S28	W90	12	8.4	1		9	9	E	RAMY		
15	ADF	1134E	2047D	S32	E56	12	19.9	1	20	9	9	E	RAMY		
15	ASR	1208E	1333D	N26	W90	12	8.5			8	8	E	RAMY	6395	
15	ASR	1315E	1320D	N23	W90	12	8.6			9	9	E	SVTO	6395	
15	DSD	1331E	1513D	N17	E20	12	17.1		04	9	9	E	RAMY	6412	
15	SSB	1336		159	W09	12	20.0			0	0	E	RAMY		197 W47
15	ASR	1342E	1642D	N07	W90	12	8.8			9	9	E	RAMY	6397	
15	ADF	1613E	1943D	N21	E11	12	16.5	2	13	9	9	E	RAMY	6413	
15	DSD	1615E	1915D	N17	E18	12	17.0		03	9	9	E	RAMY	6412	
15	DSD	1659E	1915D	N06	W10	12	14.9		03	9	9	E	RAMY	6410	
15	AFS	1720E	0328D	N04	E02	12	15.9		03	9	9	E	PALE	6410	
15	DSD	1720E	2047D	N02	W09	12	15.0		03	9	9	E	PALE	6410	
15	AFS	1722E	0108D	N20	E28	12	17.9		02	8	8	E	PALE	6412	
15	DSD	1722E	0328D	N22	E28	12	17.9		03	9	9	E	PALE	6412	
15	ASR	1722E	1915D	S16	W90	12	8.9			9	9	E	RAMY	6404	
15	SSB	1740		156	W09	12	19.9			0	0	E	PALE		198 W51
15	ASR	1745E	0328D	S17	W90	12	8.9			9	9	E	PALE	6404	
15	ADF	1755E	0328D	N27	W02	12	15.6	1	05	9	9	E	PALE	6409	
15	AFS	1758E	0108D	N17	E20	12	17.3		02	9	9	E	PALE	6412	
15	ADF	2223E	1052D	N01	E03	12	16.1	1	03	9	9	E	LEAR	6410	
15	AFS	2223E	1052D	N02	E01	12	16.0		02	9	9	E	LEAR	6410	
15	ADF	2235E	0716D	N23	W14	12	14.9	1	13	9	9	E	LEAR	6408	
15	AFS	2236E	1046D	N02	E11	12	16.8		02	9	9	E	LEAR	6410	
15	DSD	2237E	1046D	N13	E42	12	19.1		05	9	9	E	LEAR	6412	Flare Associated
15	AFS	2237E	1046D	N17	E39	12	18.9		02	9	9	E	LEAR	6412	
15	ASR	2238E	1046D	N09	W90	12	9.2			9	9	E	LEAR	6397	
15	AFS	2239E	1046D	S09	W52	12	12.0		01	9	9	E	LEAR	6405	
16	ADF	0345E	1052D	N29	W04	12	15.8	1	05	9	9	E	LEAR	6409	
16	AFS	0357E	1052D	N14	E23	12	17.9		02	9	9	E	LEAR	6412	

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
16	DSD	0450E	0727D	N15	E24	12 18.0		06	9	9	E	LEAR	6412	Flare Associated
16	BSD	0728	0740D	N13	E23	12 18.0		06	9	9	E	LEAR	6412	Flare Associated
16	SDF	1211E	1116D	S11	W19	12 15.1		04	0	0	E	SVTO		
16	AFS	1217E	2138D	N13	E02	12 16.7		02	9	9	E	RAMY	6415	
16	ADF	1218E	1908D	N23	E00	12 16.5	1	05	9	9	E	RAMY	6413	
16	ADF	1226E	1602D	S34	E50	12 20.5	2	27	9	9	E	RAMY		
16	AFS	1241E	2138D	S06	E28	12 18.6		02	9	9	E	RAMY	6416	
16	EPL	1257E	1328D	S46	E90	12 24.0	1		9	9	E	RAMY		
16	SDF	1350E	1244D	S23	W01	12 16.5	3	11	0	0	E	RAMY		
16	SDF	1350E	1244D	S43	E09	12 17.3	3	85	0	0	E	RAMY		
16	DSD	1401E	2004D	N00	W21	12 15.0		03	9	9	E	RAMY	6410	
16	SSB	1416		S53	W17	12 20.6			0	0	E	RAMY		202 W66
16	ADF	1418E	1610D	N32	W25	12 14.6	1	06	9	9	E	RAMY	6409	
16	APR	1500	1641D	N26	W90	12 9.6	2		9	9	E	RAMY	6395	
16	AFS	1602E	2138D	N13	E16	12 17.9		02	9	9	E	RAMY	6412	
16	AFS	1607E	2004D	N03	W11	12 15.8		02	9	9	E	RAMY	6410	
16	ADF	1615E	2138D	N23	E56	12 21.0	1	11	9	9	E	RAMY		
16	ADF	1808E	1810D	N02	W12	12 15.8		06	9	9	E	PALE	6410	
16	DSD	1808E	1810D	N02	W18	12 15.4		02	9	9	E	PALE	6410	
16	AFS	1808E	1810D	N13	E00	12 16.7		02	9	9	E	PALE	6415	
16	AFS	1808E	1810D	N17	E07	12 17.3		03	9	9	E	PALE	6412	
16	AFS	1808E	1810D	S06	E27	12 18.8		04	9	9	E	PALE	6416	
16	ADF	1808E	1810D	S29	W86	12 10.0		13	9	9	E	PALE	6406	
16	SSB	1942		S20	W41	12 17.1			0	0	E	PALE		
16	SDF	2217E	1727D	N14	W09	12 16.2		10	0	0	E	PALE	6410	
16	AFS	2245E	1040D	S08	E22	12 18.6		02	9	9	E	LEAR	6416	
16	DSD	2246E	1040D	S06	E23	12 18.7		03	9	9	E	LEAR	6416	
16	AFS	2247E	1040D	N15	E11	12 17.8		02	9	9	E	LEAR	6412	
16	DSD	2248E	1040D	N13	E16	12 18.1		04	9	9	E	LEAR	6412	
16	AFS	2249E	1040D	N11	E04	12 17.2		03	9	9	E	LEAR	6415	
16	ADF	2345E	0219D	N03	E31	12 19.3	1				C	VORO		
16	ADF	2345E	0259D	N51	W16	12 15.6	2				C	VORO		
16	ASR	2356E	2358D	S32	W90	12 9.9			8	7	E	PALE	6406	
17	BSL	0025	0050D	N17	E90	12 23.8	1				C	VORO		
17	ADF	0245E	1040D	N17	W76	12 11.3	2	12	6	9	E	LEAR	6405	
17	AFS	1101E	1426D	N01	W28	12 15.4		02	9	9	E	SVTO	6410	
17	DSD	1106E	1459D	N04	W31	12 15.1		05	9	9	E	SVTO	6410	
17	AFS	1108E	2121D	S08	E15	12 18.6		02	9	9	E	RAMY	6416	
17	AFS	1109E	2121D	N11	W08	12 16.9		03	9	9	E	RAMY	6415	
17	DSD	1111E	2121D	N04	W30	12 15.2		04	9	9	E	RAMY	6410	
17	DSD	1112E	1459D	N11	W10	12 16.7		03	9	9	E	SVTO	6415	
17	SSB	1208		S39	W16	12 20.5			0	0	E	RAMY		149 W26 154 W30
17	SDF	1211E	0839D	S32	W04	12 17.2		09	0	0	E	SVTO		
17	SDF	1211E	1116D	S11	W19	12 16.1		04	0	0	E	SVTO		
17	DSD	1257E	2121D	N10	W10	12 16.8		04	9	9	E	RAMY	6415	
17	DSD	1258E	2121D	N14	E06	12 18.0		03	9	9	E	RAMY	6412	
17	AFS	1258E	2121D	N17	E06	12 18.0		02	8	8	E	RAMY	6412	
17	DSD	1258E	2121D	N18	E04	12 17.8		03	9	9	E	RAMY	6412	
17	ADF	1301E	2121D	N30	W28	12 15.3	1	04	9	9	E	RAMY	6409	
17	AFS	1915E	2337D	N01	W23	12 16.1		03	9	9	E	HOLL	6410	
17	AFS	1917E	2337D	N10	W14	12 16.7		02	9	9	E	HOLL	6415	
17	SSB	1926		S40	W20	12 20.9			0	0	E	HOLL		201 W82
17	ADF	2040E	2114D	N11	W34	12 15.3	1	07	9	9	E	HOLL	6410	
17	DSD	2103E	2337D	N04	W38	12 15.0		11	9	9	E	HOLL	6410	
17	AFS	2300	1045D	N05	W35	12 15.3		03	7	9	E	LEAR	6410	
17	AFS	2301E	1045D	N13	W17	12 16.7		02	9	9	E	LEAR	6415	
18	APR	0023E	0300D	N21	W90	12 11.1	1				C	VORO		
18	ADF	0024E	0259D	N52	W30	12 15.4	1				C	VORO		
18	ADF	0025E	0259D	N28	E43	12 21.4	1				C	VORO		
18	AFS	0225E	1045D	N13	W02	12 17.9		05	9	9	E	LEAR	6412	
18	DSD	0226E	1045D	N10	W18	12 16.7		03	9	9	E	LEAR	6415	
18	AFS	0530E	1045D	N10	W20	12 16.7		03	5	9	E	LEAR	6415	
18	DSD	0844E	1217D	N10	W17	12 17.1		04	9	9	E	SVTO	6415	
18	AFS	0846E	1501D	N02	W33	12 15.9		02	9	9	E	SVTO	6410	
18	DSD	0912E	0920D	N19	W40	12 15.3	1				V	KHAR		
18	DSD	1015E	1020D	N08	W15	12 17.3	1				V	KHAR		
18	DSD	1015E	1020D	N10	W18	12 17.1	1				V	KHAR		
18	DSD	1020		N08	W08	12 17.8	1				V	KHAR		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Reg#	Remarks
18	DSD	1020E		N11	W12	12	17.5	1				V	KHAR	
18	DSD	1040E	1105D	N22	W20	12	16.9	2				V	KHAR	
18	DSD	1043E	1108D	N20	W23	12	16.7		10	9	9	E	SVTO 6413	
18	AFS	1051E	1401D	S06	E04	12	18.7		02	8	7	E	SVTO 6416	
18	DSD	1059E	1219D	N13	W10	12	17.7		04	9	9	E	SVTO 6412	
18	DSD	1059E	1219D	N14	W04	12	18.1		02	9	9	E	SVTO 6412	
18	DSD	1120E	2134D	N14	W06	12	18.0		06	9	9	E	RAMY 6412	
18	AFS	1121E	2134D	N12	W22	12	16.8		03	9	9	E	RAMY 6415	
18	AFS	1124E	2134D	N02	W32	12	16.1		02	9	9	E	RAMY 6410	
18	ADF	1127E	2134D	N26	E31	12	20.9	1	13	9	9	E	RAMY	
18	SSB	1155		137	W27	12	21.4			0	0	E	RAMY	149 W39
18	DSD	1340E	1501D	N17	W08	12	18.0		04	9	9	E	SVTO 6412	
18	DSD	1821E	2351D	N03	W50	12	15.0		05	8	9	E	HOLL 6410	
18	SSB	1825		107	W00	12	19.3			0	0	E	HOLL	139 W32 197 W90
18	ADF	1840E	2351D	N01	W37	12	16.0	1	12	9	9	E	HOLL 6410	
18	AFS	1841E	2351D	S06	E00	12	18.8		03	9	9	E	HOLL 6416	
18	AFS	2018E	2351D	N11	W26	12	16.9		02	9	9	E	HOLL 6415	
18	DSD	2018E	2351D	N12	W24	12	17.0		03	9	9	E	HOLL 6415	
18	DSD	2020E	2021D	N14	W02	12	18.7		03	9	9	E	HOLL	
18	AFS	2020E	2351D	N16	E00	12	18.8		01	9	9	E	HOLL	
18	DSD	2043E	2254D	N14	W25	12	17.0		05	9	9	E	PALE 6415	Flare Associated
18	AFS	2046E	2254D	S07	W02	12	18.7		03	9	9	E	PALE 6416	
18	DSD	2100E	2254D	N02	W38	12	16.0		03	9	9	E	PALE 6410	
18	SSB	2245		113	W08	12	19.9			0	0	E	PALE	140 W35
18	AFS	2255E	1050D	N17	W13	12	18.0		02	9	9	E	LEAR 6412	
18	DSD	2256E	1050D	N12	W29	12	16.8		03	9	9	E	LEAR 6415	
18	DSD	2257E	1050D	N05	W44	12	15.7		03	9	9	E	LEAR 6410	
18	ASR	2258E	1050D	S17	W80	12	12.9			9	9	E	LEAR 6411	
18	DSD	2259E	1050D	N30	W44	12	15.5		05	9	9	E	LEAR 6409	
18	ADF	2351E	0259D	N50	W44	12	15.3	1				C	VORO	
18	ADF	2351E	0259D	S22	E03	12	19.2	1				C	VORO	
19	AFS	0000E	1050D	N06	W05	12	18.6		03	9	9	E	LEAR 6416	
19	ADF	0145E	1050D	N13	W17	12	17.8	2	04	9	9	E	LEAR 6412	
19	APR	0950E	1020D	S13	E90	12	26.2	1				V	KHAR	
19	SDF	1050E	2148D	S29	E07	12	20.0		14	0	0	E	LEAR	
19	AFS	1110E	1451D	N10	W36	12	16.8		03	9	9	E	SVTO 6415	
19	ADF	1111E	2017D	N03	W47	12	15.9	1	05	9	9	E	RAMY 6410	
19	DSD	1138E	1238	N12	W36	12	16.8		04	9	9	E	RAMY 6415	Flare Associated
19	DSD	1138E	2130D	N13	W18	12	18.1		03	9	9	E	RAMY 6412	
19	AFS	1204E	2019D	N18	E69	12	24.7		02	9	9	E	RAMY	
19	DSD	1234	1310D	N18	W28	12	17.4		04	9	9	E	RAMY 6412	Flare Associated
19	DSD	1237	1249	N17	W29	12	17.3		04	9	9	E	SVTO 6412	Flare Associated
19	SSB	1257		150	W53	12	23.8			0	0	E	SVTO	140 W43 170 W10
19	ADF	1320E	2021D	N13	W36	12	16.8	2	03	9	9	E	RAMY 6415	
19	SSB	1408		117	W21	12	20.9			0	0	E	SVTO	
19	DSD	1500E	1800D	N13	W24	12	17.8		10	9	9	E	HOLL 6412	Flare Associated
19	DSD	1515E	2352D	N12	W21	12	18.0		04	9	9	E	HOLL 6412	Flare Associated
19	ADF	1520E	2130D	N12	W31	12	17.3	2	06	9	9	E	RAMY 6410	Flare Associated
19	ADF	1526E	2352D	N10	W27	12	17.6	2	11	9	9	E	HOLL 6412	
19	ADF	1546E	2221D	N02	W48	12	16.1	1	17	9	9	E	HOLL 6410	
19	SSB	1600		105	W10	12	20.0			0	0	E	HOLL	139 W44
19	SDF	1611E	2331D	S30	E00	12	19.7		17	0	0	E	HOLL	
19	SDF	1625E	1527D	S26	E11	12	20.5	3	14	0	0	E	RAMY	
19	ASR	1822E	2217D	S18	E90	12	26.6			9	9	E	HOLL	
19	SDF	1844E	2211D	S33	E08	12	20.4		21	0	0	E	HOLL	
19	AFS	1850E	2145D	S15	W07	12	19.2		02	9	9	E	PALE	
19	DSD	1850E	2158D	N14	W38	12	16.9		03	9	9	E	PALE 6415	
19	DSD	1850E	2223D	N02	W56	12	15.6		04	9	9	E	PALE 6410	Flare Associated
19	ADF	1850E	2223D	N13	W31	12	17.4		09	9	9	E	PALE 6412	
19	DSD	1850E	2223D	N16	W29	12	17.6		02	9	9	E	PALE 6412	
19	DSD	1850E	1916D	N02	W58	12	15.4		03	9	9	E	RAMY 6410	Flare Associated
19	SSB	1919		114	W21	12	20.9			0	0	E	PALE	140 W47
19	ADF	2143E	2223D	N09	W62	12	15.2	1	10	9	9	E	PALE 6410	
19	DSD	2218E	2223D	S08	W18	12	18.6		02	9	9	E	PALE 6416	
19	ASR	2220E	2223D	S18	E90	12	26.8			9	9	E	PALE	
19	ADF	2246E	1050D	N13	W27	12	17.9	1	06	9	9	E	LEAR 6412	
20	ASR	0735E	1050D	S23	E90	12	27.2			9	9	E	LEAR	
20	ASR	0740E	1446D	S19	E90	12	27.2			9	9	E	SVTO	

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	NOAA/ USAF Sta Reg#	Remarks
20	SSB	0830		149	W63	12 24.7			0	0	E	SVTO	139 W53 107 W21
20	ASR	0833E	1050D	S19	E90	12 27.2			9	9	E	LEAR	
20	AFS	0853E	1325D	N17	W07	12 19.8		02	9	9	E	SVTO	
20	SDF	1050E	2155D	N42	E19	12 22.0		10	0	0	E	LEAR	
20	SSB	1152		111	W27	12 21.3			0	0	E	RAMY	137 W53 149 W65
20	ADF	1200E	1446D	N12	W37	12 17.7	2	11	9	9	E	SVTO 6412	
20	ADF	1202E	2029D	N14	W33	12 18.0	1	10	9	9	E	RAMY 6412	
20	APR	1220E	1658D	S21	E90	12 27.4	2		9	7	E	RAMY	
20	SDF	1446E	0751D	N35	E01	12 20.7		07	0	0	E	SVTO	
20	AFS	1504E	2352D	N18	E50	12 24.4		02	9	9	E	HOLL 6418	
20	DSD	1505E	2352D	N12	W32	12 18.2		05	9	9	E	HOLL 6412	
20	DSD	1505E	2352D	N14	W29	12 18.4		04	9	9	E	HOLL 6412	
20	SSB	1548		110	W28	12 21.4			0	0	E	HOLL	139 W57
20	ASR	1602E	2352D	S16	E90	12 27.5			9	9	E	HOLL 6420	
20	ASR	1602E	2352D	S25	E90	12 27.6			9	9	E	HOLL 6420	
20	DSD	1725E	1928D	N26	W50	12 16.8		04	9	9	E	RAMY 6413	Flare Associated
20	DSD	2004E	2016D	N12	W37	12 18.0		03	9	9	E	PALE 6412	
20	ADF	2004E	2016D	N12	W51	12 17.0		05	9	9	E	PALE 6415	
20	DSD	2004E	2016D	N18	W38	12 17.9		04	9	9	E	PALE 6412	
20	ASR	2004E	2016D	S15	E90	12 27.6			9	9	E	PALE	
20	ASR	2300E	1046D	S24	E90	12 27.9			9	9	E	LEAR 6420	
21	DSD	0130E	0535D	N11	W49	12 17.4		02	9	9	E	LEAR 6412	
21	DSD	0130E	1046D	N15	W34	12 18.5		05	9	9	E	LEAR 6412	
21	ASR	0806E	1436D	S22	E82	12 27.6			9	9	E	SVTO 6420	
21	ADF	0807E	1413D	N19	W48	12 17.7	1	07	7	8	E	SVTO 6412	
21	AFS	0840E	1046D	S05	W35	12 18.7		02	9	9	E	LEAR 6416	
21	AFS	0936E	1436D	S05	W34	12 18.8		02	9	9	E	SVTO 6416	
21	ASR	0940E	1046D	S16	E90	12 28.2			9	9	E	LEAR 6420	
21	ASR	1017E	1436D	S14	E90	12 28.2			9	9	E	SVTO	
21	DSD	1215E	2011D	S19	E68	12 26.7		04	9	9	E	RAMY 6420	
21	ASR	1215E	2047D	S25	E87	12 28.2			9	9	E	RAMY 6420	
21	AFS	1220E	2047D	N18	W23	12 19.8		03	9	9	E	RAMY 6421	
21	DSD	1221E	1526D	N12	W67	12 16.5		03	9	9	E	RAMY 6415	
21	ADF	1221E	1642D	N15	W62	12 16.8	1	06	9	9	E	RAMY 6415	
21	DSD	1224E	2047D	N13	W45	12 18.1		05	9	9	E	RAMY 6412	
21	AFS	1224E	2047D	N15	W47	12 17.9		03	9	9	E	RAMY 6412	
21	SSB	1230		103	W33	12 21.7			0	0	E	RAMY	142 W69
21	ASR	1348E	2047D	N05	W87	12 15.1			8	8	E	RAMY 6410	
21	ASR	1421E	2047D	S14	E90	12 28.4			9	9	E	RAMY	
21	DSD	1610E	2047D	S15	W32	12 19.2		02	9	9	E	RAMY 6419	
21	AFS	1613E	2047D	S24	E75	12 27.5		02	9	9	E	RAMY 6420	
21	DSD	1616E	2047D	N22	W54	12 17.5		03	9	9	E	RAMY 6412	
21	AFS	1646E	2047D	N17	E38	12 24.6		02	9	9	E	RAMY 6418	
21	ASR	1736E	2108D	N04	W89	12 15.1			9	9	E	HOLL 6410	
21	ASR	1743E	2108D	S15	E90	12 28.5			9	9	E	HOLL	
21	AFS	1750E	2108D	S19	E67	12 26.8	1	03	9	9	E	HOLL 6420	106 W39
21	SSB	1850		139	W72	12 25.3			0	0	E	HOLL	
21	ASR	1908E	2108D	S25	E85	12 28.4			7	7	E	HOLL 6420	
21	AFS	2011E	2047D	S19	E67	12 26.9		02	9	9	E	RAMY 6420	
22	SDF	0021E	0143D	N06	W42	12 18.9		07	0	0	E	LEAR	
22	SDF	0021E	0143D	N06	W42	12 18.9		07	0	0	E	LEAR	
22	ASR	0035E	1050D	S18	E90	12 28.9			9	9	E	LEAR	
22	AFS	0045E	1050D	S16	W33	12 19.5		02	9	9	E	LEAR 6418	
22	ASR	0150E	1050D	S28	E90	12 29.1			9	9	E	LEAR 6420	
22	ASR	0220E	1050D	N12	W90	12 15.3			9	9	E	LEAR 6415	
22	ASR	0735E	1050D	N05	W90	12 15.6			9	9	E	LEAR 6410	
22	DSD	0805E	1050D	S22	E61	12 27.0		03	9	9	E	LEAR 6420	
22	SSB	0845		105	W45	12 22.8			0	0	E	SVTO	
22	DSD	0854E	1447D	S17	E76	12 28.1		03	9	9	E	SVTO	
22	DSD	1151E	1647D	S21	E57	12 26.9		03	9	9	E	RAMY 6420	
22	AFS	1151E	2140D	S23	E67	12 27.6		02	9	9	E	RAMY 6420	
22	ADF	1319E	1647D	N12	W78	12 16.7	1	07	9	9	E	RAMY 6415	
22	DSD	1323E	2022D	N18	W77	12 16.7		03	9	9	E	RAMY 6412	
22	DSD	1323E	2022D	N20	W72	12 17.0		03	9	9	E	RAMY 6412	
22	AFS	1323E	2140D	N18	W59	12 18.1		03	9	9	E	RAMY 6412	
22	AFS	1330E	2140D	S17	E76	12 28.3		02	9	9	E	RAMY 6422	
22	ADF	1330E	2140D	S21	E72	12 28.1	1	09	9	9	E	RAMY 6422	
22	SSB	1335		427	W10	12 20.5			0	0	E	RAMY	103 W47 121 W65

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	APR	1341E	1647D	N48	W90	12 15.0	1		7	7	E	RAMY		
22	ASR	1344E	1447D	N09	W80	12 16.6			9	9	E	SVTO	6415	
22	DSD	1642E	2022D	S14	E68	12 27.8		02	9	9	E	RAMY		
22	ASR	2032E	2325D	N11	W90	12 16.1			9	9	E	HOLL	6415	
22	CAP	2033E	2035D	S01	W90	12 16.1	1	03	9	9	E	HOLL	6410	
22	AFS	2050E	2325D	S23	E64	12 27.8		02	9	9	E	HOLL	6420	
22	AFS	2051E	2325D	S19	E53	12 26.9		01	9	9	E	HOLL	6420	
22	AFS	2052E	2325D	S30	E56	12 27.3		01	9	9	E	HOLL		
22	AFS	2104E	2325D	S15	W47	12 19.3		01	9	9	E	HOLL	6419	
22	ADF	2107E	2325D	N22	W67	12 17.7	1	08	9	9	E	HOLL	6412	
22	SSB	2137		106	W53	12 23.4			0	0	E	HOLL		
22	ASR	2251E	1049D	N11	W83	12 16.7			9	9	E	LEAR	6415	
22	ASR	2251E	1049D	N14	W80	12 16.9			9	9	E	LEAR	6415	
22	DSD	2257E	1049D	S26	E63	12 27.8		02	9	9	E	LEAR	6420	
22	ADF	2319E	1049D	S21	E72	12 28.5	1	02	9	8	E	LEAR	6422	
23	DSD	0048E	0140D	N13	W64	12 18.2		11	9	9	E	LEAR	6412	Flare Associated
23	CAP	0050E	1049D	N01	W86	12 16.6		02	9	7	E	LEAR	6410	
23	BSD	0301E	0411D	N12	W71	12 17.8		06	9	9	E	LEAR	6412	
23	DSD	0450E	1049D	S05	W59	12 18.8		02	9	9	E	LEAR	6416	
23	SSB	0811		105	W59	12 23.8			0	0	E	SVTO		
23	ADF	0830E	1445D	S22	E55	12 27.6	1	04	9	9	E	SVTO	6420	
23	DSD	0919E	1230D	N17	W66	12 18.4		04	9	9	E	SVTO	6412	
23	ASR	0919E	1445D	N12	W88	12 16.7			9	9	E	SVTO	6415	
23	SDF	1056E	2141D	N35	W54	12 19.1		08	0	0	E	LEAR		
23	AFS	1115E	1445D	N18	E13	12 24.4		02	9	9	E	SVTO	6418	
23	AFS	1134E	2129D	N17	E14	12 24.5		02	9	9	E	RAMY	6418	
23	DSD	1136E	2129D	N16	W66	12 18.5		05	9	9	E	RAMY	6412	
23	DSD	1230E	1240D	S16	E64	12 28.4		05	9	9	E	SVTO	6422	
23	ADF	1321E	2129D	S19	E57	12 27.9	1	10	9	9	E	RAMY	6422	
23	AFS	1324E	1329D	S19	E43	12 26.8		03	9	9	E	RAMY	6423	
23	AFS	1350E	1635D	N17	W72	12 18.1		02	9	9	E	RAMY	6412	
23	DSD	1351E	1450D	S28	E49	12 27.4		02	9	9	E	RAMY		
23	SSB	1425		106	W63	12 24.1			0	0	E	RAMY		
23	DSD	1518E	1828D	N17	E09	12 24.3		01	9	9	E	HOLL	6418	
23	AFS	1519E	1957D	N16	W51	12 19.8		02	9	9	E	HOLL	6421	
23	AFS	1520E	1716D	S18	E41	12 26.8		02	9	9	E	HOLL	6420	
23	AFS	1520E	1958D	S24	E54	12 27.8		02	9	9	E	HOLL	6420	
23	ADF	1521E	2352D	S24	E54	12 27.8	1	06	9	9	E	HOLL	6420	
23	ADF	1522E	1958D	S23	E48	12 27.3	1	07	9	9	E	HOLL	6420	
23	BSD	1549E	1715D	N22	W77	12 17.7		05	9	9	E	HOLL	6412	
23	ADF	1555E	1832D	S07	E67	12 28.7	1	06	9	9	E	HOLL		
23	SSB	1603		105	W63	12 24.1			0	0	E	HOLL		
23	SDF	2313E	1418D	S14	E36	12 26.7		10	0	0	E	HOLL		
23	SDF	2324E	1459D	N15	E27	12 26.0		18	0	0	E	HOLL		
23	AFS	2325E	1051D	S20	E39	12 26.9		02	9	9	E	LEAR	6423	
23	DSD	2326E	1051D	N16	E08	12 24.6		02	9	9	E	LEAR	6418	
23	AFS	2327E	1051D	N18	E09	12 24.7		02	9	9	E	LEAR	6418	
23	DSD	2327E	1051D	S10	E46	12 27.4		03	9	9	E	LEAR		
23	ASR	2328E	1051D	N22	W90	12 17.1			9	9	E	LEAR	6412	
23	ADF	2346E	0259D	N40	W49	12 20.0	2				C	VORO		
24	BSL	0030	0106	N17	W90	12 17.2	1				C	VORO		
24	BSL	0121E	0136	N16	W90	12 17.2	1				C	VORO		
24	BSL	0138	0150	N15	W90	12 17.2	1				C	VORO		
24	BSL	0150	0217	N16	W90	12 17.2	1				C	VORO		
24	BSL	0207	0240	N10	W90	12 17.3	1				C	VORO		
24	AFS	0220E	1051D	S23	E49	12 27.9		02	9	9	E	LEAR	6420	
24	BSL	0224E	0252	N15	W90	12 17.3	1				C	VORO		
24	BSL	0242	0300D	N14	W90	12 17.3	1				C	VORO		
24	BSL	0259E	0322	N13	W90	12 17.3			9	9	E	LEAR	6412	
24	SDF	1051E	2200D	N27	E10	12 25.2		11	0	0	E	LEAR		
24	ASR	1204E	2136D	N23	W90	12 17.6			9	9	E	RAMY	6412	
24	ADF	1239E	2136D	S18	E43	12 27.8	1	16	9	9	E	RAMY	6422	
24	SSB	1430		395	W05	12 17.5			0	0	E	HOLL		104 W74
24	ADF	1437E	2218D	S20	E46	12 28.1	1	07	9	9	E	HOLL	6422	
24	AFS	1438E	2218D	S10	E36	12 27.3		03	9	9	E	HOLL		
24	ASR	1439E	2218D	N12	W90	12 17.8			9	9	E	HOLL	6412	
24	AFS	1440E	2218D	S19	E29	12 26.8		03	9	9	E	HOLL	6423	
24	AFS	1627E	2218D	N08	E11	12 25.5		01	8	8	E	HOLL		

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	DSD	1956E	2218D	S19	E22	12 26.5		03	9	9	E	HOLL	6423	
24	DSD	2024E	2215D	S11	E36	12 27.5		03	9	9	E	HOLL	6424	
24	DSD	2210E	2218D	S24	E26	12 26.9		06	9	9	E	HOLL	6420	
24	DSD	2240E	1051D	S24	E25	12 26.9		06	9	9	E	LEAR	6420	
24	DSD	2241E	1051D	S11	E34	12 27.5		03	9	9	E	LEAR	6424	
24	ASR	2259E	1051D	N13	W90	12 18.2			9	9	E	LEAR	6412	
24	ASR	2259E	1051D	N22	W90	12 18.0			9	9	E	LEAR	6412	
24	DSD	2325E	1051D	S19	E19	12 26.4		03	9	9	E	LEAR	6423	
24	ADF	2353E	0259D	S09	E13	12 26.0	2				C	VORO		
24	ADF	2353E	0259D	S17	W09	12 24.3	1				C	VORO		
25	APR	0103	0300D	N10	W90	12 18.3	1				C	VORO		
25	APR	0151	0300D	N02	W90	12 18.3	1				C	VORO		
25	ASR	0210E	0324D	N17	W90	12 18.2			9	9	E	PALE	6412	
25	AFS	0210E	0324D	S10	E31	12 27.4		03	9	9	E	PALE	6424	
25	DSD	0210E	0324D	S18	E20	12 26.6		03	9	9	E	PALE	6423	
25	AFS	0210E	0324D	S18	E23	12 26.8		03	9	9	E	PALE	6423	
25	DSD	0210E	0324D	S19	E18	12 26.5		04	9	9	E	PALE	6423	
25	AFS	0210E	0324D	S26	E36	12 27.9		03	9	9	E	PALE	6420	
25	AFS	0527E	1051D	N18	W10	12 24.5		02	5	5	E	LEAR	6418	
25	AFS	0528E	1051D	S09	E30	12 27.5		02	9	9	E	LEAR	6424	
25	AFS	0528E	1051D	S11	E30	12 27.5		02	9	9	E	LEAR	6424	
25	AFS	0529E	1051D	N07	E03	12 25.4		01	9	9	E	LEAR	6425	
25	DSD	1025E	1039D	S14	E45	12 28.8	1				V	KHAR		
25	DSD	1032E	1045D	S19	E43	12 28.7	1				V	KHAR		
25	ADF	1040E	1058D	S17	E13	12 26.4	2				V	KHAR		
25	AFS	1110E	2135D	S10	E25	12 27.3		03	9	9	E	RAMY	6424	
25	DSD	1113E	1707D	S19	E14	12 26.5		04	9	9	E	RAMY	6423	
25	DSD	1113E	2135D	S14	E14	12 26.5		06	9	9	E	RAMY	6423	
25	DSD	1117E	1428D	S25	E32	12 27.9		03	9	9	E	RAMY	6422	
25	ADF	1117E	2135D	S24	E31	12 27.9	1	09	9	9	E	RAMY	6422	
25	ASR	1120E	1720D	N15	W90	12 18.6			9	9	E	RAMY	6412	
25	AFS	1124E	1853D	S12	E34	12 28.0		02	9	9	E	RAMY		
25	SSB	1130		379	W01	12 19.6			0	0	E	RAMY		395 W17 428 W50
25	DSD	1138E	1434D	S24	E20	12 27.0		04	9	9	E	RAMY	6420	
25	DSD	1426E	1704D	S11	E25	12 27.5		04	9	9	E	RAMY	6424	
25	ADF	1530E	2350D	S25	E15	12 26.8	1	06	9	9	E	HOLL	6420	
25	AFS	1610E	2350D	S10	E23	12 27.4		04	9	9	E	HOLL	6424	
25	SSB	1616		379	W03	12 19.8			0	0	E	HOLL		396 W20 429 W53
26	ASR	0120E	1010D	S11	E86	01 1.5			7	7	E	LEAR		
26	ASR	0121E	1010D	S25	E84	01 1.6			9	9	E	LEAR		
26	DSD	0205E	1052D	S19	E05	12 26.5		05	9	9	E	LEAR	6423	
26	DSD	0440E	1052D	S22	E30	12 28.5		02	9	9	E	LEAR	6422	
26	AFS	0445E	1052D	S11	E17	12 27.5		02	9	9	E	LEAR	6424	
26	SDF	1052E	2228D	N17	E05	12 26.8		12	0	0	E	LEAR		
26	SDF	1052E	2228D	S30	E03	12 26.7		16	0	0	E	LEAR		
26	AFS	1138E	1553D	S13	E24	12 28.3		02	9	9	E	RAMY	6426	
26	ADF	1140E	2129D	S29	E21	12 28.1	1	05	9	9	E	RAMY	6420	
26	AFS	1141E	1556D	S06	E10	12 27.2		02	9	9	E	RAMY	6424	
26	DSD	1142E	1417D	S20	E05	12 26.9		10	9	9	E	RAMY	6423	
26	DSD	1142E	1558D	S18	E06	12 26.9		03	9	9	E	RAMY	6423	
26	AFS	1142E	1558D	S20	E07	12 27.0		04	9	9	E	RAMY	6423	
26	ADF	1201E	2129D	S20	E18	12 27.9	1	11	9	9	E	RAMY	6422	
26	ADF	1208E	2129D	S26	E75	01 1.3	1	05	9	9	E	RAMY		
26	SSB	1217		380	W16	12 20.4			0	0	E	RAMY		395 W30 422 W57
26	LPS	1412E	1505D	S23	E21	12 28.2			9	9	E	RAMY	6420	Flare Associated
26	DSD	1413E	1505D	S24	E19	12 28.1		10	9	9	E	RAMY	6420	Flare Associated
26	ASR	1616	1628	S24	E90	01 2.6			9	9	E	RAMY		
26	AFS	2315E	1050D	S26	E14	12 28.0		02	9	9	E	LEAR	6420	
26	AFS	2316E	1050D	N19	W31	12 24.6		02	9	9	E	LEAR	6418	
26	DSD	2317E	1050D	S16	E23	12 28.7		03	9	9	E	LEAR	6422	
26	AFS	2318E	1050D	S09	E08	12 27.6		02	9	9	E	LEAR	6424	
26	DSD	2355E	0013D	S19	E71	01 1.4		04	9	9	E	PALE		
26	ADF	2355E	0013D	S25	E06	12 27.5	1	07	9	9	E	PALE	6420	
27	DSD	0004E	0013D	S08	E08	12 27.6		02	9	9	E	PALE	6424	
27	DSD	0004E	0013D	S11	E70	01 1.3		03	9	9	E	PALE	6427	
27	ADF	0004E	0013D	S15	E20	12 28.5		06	9	9	E	PALE	6422	
27	BSL	0555E	0713	S34	W90	12 20.1	1				V	KODA		

ACTIVE PROMINENCES AND FILAMENTS

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Dec 90

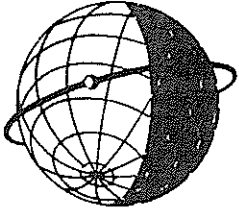
DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
27	DSD	0820E	1050D	N15	W37	12	24.5		04	9	9	E	LEAR	6418	
27	AFS	0845E	1050D	S24	W02	12	27.2		02	9	9	E	LEAR	6423	
27	APR	0846E	0952	N45	W90	12	19.9	2				V	KODA		
27	DSD	0918E	0925D	S09	E68	01	1.5	1				V	KHAR		
27	SDF	1052E	2228D	S30	E03	12	27.7		16	0	0	E	XXX		
27	ADF	1130E	2143D	S06	E61	01	1.0	1	10	9	9	E	RAMY	6427	
27	DSD	1203E	1827D	S11	W61	12	22.9		02	9	9	E	RAMY		
27	ASR	1307E	1635D	S16	E90	01	3.4			7	7	E	RAMY		
27	AFS	1522E	2145D	S10	W02	12	27.5		03	9	9	E	HOLL	6424	
27	ADF	1524E	2145D	S21	E12	12	28.6	1	08	9	9	E	HOLL	6422	
27	SSB	1540		381	W31	12	21.3			0	0	E	HOLL		398 W48
27	DSD	1750E	1817D	S27	E06	12	28.2		06	9	9	E	HOLL	6420	Flare Associated
27	DSD	1755E	1820D	S25	E05	12	28.1		04	9	9	E	RAMY	6420	Flare Associated
27	ADF	1941E	1956D	N18	W41	12	24.7	1	07	9	7	E	PALE	6418	
27	ADF	1941E	1956D	S10	E59	01	1.2	1	04	9	9	E	PALE	6427	
27	AFS	1941E	1956D	S10	W05	12	27.4		03	9	9	E	PALE	6424	
27	ADF	1941E	1956D	S14	E06	12	28.3		04	9	8	E	PALE	6426	
27	ADF	1941E	1956D	S18	W04	12	27.5		08	9	9	E	PALE	6423	
27	DSD	2128E	1956D	S29	E54	01	1.1		02	9	9	E	PALE		
27	AFS	2330E	1053D	S27	E03	12	28.2		02	9	9	E	LEAR	6420	
27	AFS	2331E	1053D	S24	W12	12	27.0		02	9	9	E	LEAR	6423	
27	AFS	2332E	1053D	S09	W07	12	27.4		03	9	9	E	LEAR	6424	
27	ADF	2350E	0259D	S06	W30	12	25.7	1				C	VORO		
28	ADF	0012	0259D	N09	E40	12	31.0	1				C	VORO		
28	APR	0017E	0300D	N27	W90	12	21.0	1				C	VORO		
28	SSB	1050		340	W00	12	25.5			0	0	E	SVTO		376 W36 400 W60
28	ADF	1226E	2050D	S12	E50	01	1.3	1	04	9	9	E	RAMY	6427	
28	DSD	1755E	0207D	S09	E70	01	3.0		03	9	9	E	PALE		
28	AFS	1755E	0207D	S10	W17	12	27.5		03	7	8	E	PALE	6424	
28	DSD	1755E	1855D	N14	W11	12	27.9		04	9	9	E	RAMY	6424	Flare Associated
28	DSD	1805E	2135D	S19	W16	12	27.5		04	9	9	E	PALE	6423	
28	SSB	1820		382	W47	12	21.9			0	0	E	PALE		
28	ADF	1912E	2338D	S17	W21	12	27.2	1	06	9	9	E	HOLL	6423	
28	SSB	1933		383	W48	12	21.8			0	0	E	HOLL		
28	ADF	2100E	0207D	S16	W16	12	27.7	1	15	9	9	E	PALE	6423	
28	ADF	2100E	2328D	S10	E75	01	3.5		06	9	9	E	PALE		
28	DSD	2136E	0207D	S09	W20	12	27.4		03	9	7	E	PALE	6424	
28	AFS	2315E	1050D	S09	W20	12	27.5		03	9	9	E	LEAR	6424	
28	AFS	2315E	1050D	S19	W28	12	26.8		03	9	9	E	LEAR	6423	
28	AFS	2317E	1050D	S17	W04	12	28.7		03	9	9	E	LEAR	6422	
28	ADF	2345E	0207D	S26	W19	12	27.5		07	9	9	E	PALE	6423	
29	ASR	0010E	0207D	N10	E90	01	4.8			9	9	E	PALE		
29	APR	0020E	0207D	N36	E90	01	5.2			9	9	E	PALE		
29	APR	0129	0300D	N33	E90	01	5.2	1				C	VORO		
29	ADF	0205	0300D	S08	W45	12	25.7	1				C	VORO		
29	ADF	0215E	1050D	S20	W27	12	27.0		09	9	9	E	LEAR	6423	
29	AFS	0420E	1050D	S10	E65	01	3.1		04	9	9	E	LEAR		
29	DSD	0427E	1050D	S09	W30	12	26.9		04	9	9	E	LEAR	6424	
29	ADF	0600E	1050D	S11	E64	01	3.1	1	04	9	9	E	LEAR		
29	APR	0810E	1438D	S30	E90	01	5.4	2		9	9	E	SVTO		
29	APR	0811E	1438D	N37	E90	01	5.6	1		9	9	E	SVTO		
29	AFS	0812E	1438D	S12	W27	12	27.3	1	02	9	9	E	SVTO	6424	
29	DSD	1202E	2002D	S10	W29	12	27.3		03	9	9	E	RAMY	6424	
29	ADF	1206E	2002D	S15	W33	12	27.0	1	07	8	5	E	RAMY	6423	
29	ASR	1658E	1830D	S12	E86	01	5.2			9	9	E	RAMY		
29	AFS	1735E	0310D	S12	W29	12	27.5		02	9	9	E	PALE	6424	
29	DSD	1755E	0207D	S09	E70	01	4.0		03	9	9	E	PALE		
29	AFS	1755E	0207D	S10	W17	12	28.5		03	7	8	E	PALE	6424	
29	SSB	1845		382	W60	12	22.6			0	0	E	PALE		
29	ADF	1845E	0355D	S14	E35	01	1.4		06	9	9	E	PALE	6427	
29	ADF	1845E	0355D	S17	W29	12	27.6		13	9	9	E	PALE	6423	
29	APR	1845E	0355D	S26	E90	01	5.8			9	9	E	PALE		
29	ADF	2100E	0207D	S16	W16	12	28.7	1	15	9	9	E	PALE	6423	
29	DSD	2136E	0207D	S09	W20	12	28.4		03	9	7	E	PALE	6424	
29	AFS	2253E	1053D	S11	W34	12	27.4		02	9	9	E	LEAR	6424	
29	AFS	2254E	1053D	S15	E32	01	1.4		02	9	9	E	LEAR	6427	
29	ADF	2345E	0207D	S26	W19	12	28.5		07	9	9	E	PALE	6423	

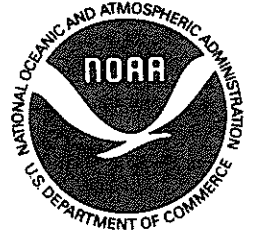
ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/ USAF Sta Reg#	Remarks
30	ADF	0730E	1511D	S25	W31	12 27.9	1	05	9	9	E	SVTO 6420	
30	APR	0815E	1215D	S38	E90	01 6.6					V	ATHN	
30	AFS	1005E	1153D	N00	E12	12 31.3		01	8	8	E	SVTO	
30	DSD	1049E	1223D	S09	W42	12 27.3		04	9	9	E	SVTO 6424	Flare Associated
30	ADF	1125E	2044D	N05	E54	01 3.5	1	10	8	8	E	RAMY 6431	
30	ADF	1129E	1957D	S07	E22	01 1.1	1	06	9	9	E	RAMY 6427	
30	DSD	1132E	2010D	S09	W44	12 27.2		04	9	9	E	RAMY 6424	
30	ADF	1140E	1630D	N09	W70	12 25.2	1	08	9	9	E	RAMY	
30	SSB	1144		S42	W30	12 27.2			0	0	E	RAMY	378 W66
30	AFS	1153E	1511D	S28	W39	12 27.4		02	9	9	E	SVTO 6420	
30	ASR	1210E	1627D	N11	E90	01 6.3			9	9	E	RAMY	
30	DSD	1502E	2358D	S18	W31	12 28.3		03	9	9	E	HOLL 6422	
30	DSD	1504E	2358D	S09	W45	12 27.2		06	9	9	E	HOLL 6424	Flare Associated
30	SSB	1507		S11	W00	12 29.8			0	0	E	HOLL	387 W76
30	SDF	1511E	0744D	N15	W07	12 30.1		07	0	0	E	SVTO	
30	ADF	1716E	2358D	S13	E19	01 1.1	2	12	9	9	E	HOLL 6427	
30	AFS	1730E	0225D	S10	W44	12 27.4		02	8	8	E	PALE 6424	
30	DSD	1730E	0256D	S07	W48	12 27.1		03	9	9	E	PALE 6424	
30	ADF	1730E	0256D	S17	W42	12 27.5		13	9	9	E	PALE 6423	
30	AFS	1730E	0256D	S18	W31	12 28.4		02	9	9	E	PALE 6422	
30	DSD	1801E	0225D	S25	W50	12 26.9		03	9	9	E	PALE 6423	
30	SSB	1905		S38	W74	12 23.3			0	0	E	PALE	348 W40
30	AFS	2120E	0256D	S10	E41	01 3.0		01	9	9	E	PALE 6432	
30	AFS	2120E	0256D	S24	E25	01 1.8		02	9	9	E	PALE 6429	
30	AFS	2228E	1050D	S09	W48	12 27.3		02	9	9	E	LEAR 6424	
31	ASR	0106E	0225D	N15	W88	12 24.4			9	9	E	PALE 6418	
31	ADF	0717E	1424D	S18	W48	12 27.6	1	09	9	9	E	SVTO 6423	
31	DSD	0725E	1240D	S13	W54	12 27.2		03	9	9	E	SVTO 6424	
31	ADF	0742E	1242D	S14	E12	01 1.2	1	06	9	9	E	SVTO 6427	
31	ADF	0844E	0916D	N09	E40	01 3.4	1				V	KHAR	
31	DSD	0900E	0916D	S12	W59	12 26.9	1				V	KHAR	
31	AFS	0940E	1311D	S21	W41	12 28.2		02	9	9	E	SVTO 6422	
31	SSB	1124		S30	W11	12 30.7			0	0	E	RAMY	332 W33 361 W62
31	DSD	1159E	1623D	S08	E32	01 2.9		03	9	9	E	RAMY 6432	
31	AFS	1159E	1631D	S09	E32	01 2.9		02	9	9	E	RAMY 6432	
31	ADF	1202E	1631D	N23	E52	01 4.5	1	18	9	9	E	RAMY 6431	
31	ADF	1213E	1424D	S16	W04	12 31.2	1	06	9	9	E	RAMY 6430	
31	DSD	1223E	1426D	S10	W57	12 27.2		03	9	9	E	RAMY 6424	
31	ADF	1229E	1631D	S19	W42	12 28.3	1	06	9	9	E	RAMY 6422	
31	SSB	1350		S30	W12	12 30.8			0	0	E	SVTO	332 W34
31	AFS	1532E	2359D	N01	W33	12 29.2		02	9	9	E	HOLL	
31	AFS	1532E	2359D	S19	W44	12 28.3		01	9	9	E	HOLL 6422	
31	AFS	1539E	2359D	S10	E31	01 3.0		02	9	9	E	HOLL 6432	
31	AFS	1545E	2359D	S24	E26	01 2.7		01	6	6	E	HOLL	
31	AFS	1725E	0353D	N01	W34	12 29.2		03	9	9	E	PALE	
31	AFS	1725E	0353D	S26	E30	01 3.0		03	9	9	E	PALE 6429	
31	DSD	1725E	2203D	S11	W46	12 28.3		02	9	9	E	PALE 6424	
31	AFS	1740E	0353D	S10	E29	01 2.9		03	9	9	E	PALE 6432	
31	AFS	1740E	0353D	S19	W45	12 28.3		02	9	9	E	PALE 6422	
31	AFS	1740E	0353D	S24	E25	01 2.7		03	9	9	E	PALE	
31	SSB	1803		S30	W13	12 31.1			0	0	E	PALE	
31	SSB	1851		S30	W14	12 31.0			0	0	E	HOLL	342 W36
31	ASR	1906E	2359D	S17	E90	01 7.6			7	7	E	HOLL	
31	ADF	2135E	0353D	S16	W53	12 27.9		12	9	9	E	PALE 6423	
31	ADF	2135E	0353D	S21	W48	12 28.2		07	9	9	E	PALE 6422	
31	ADF	2308E	1100D	S16	W51	12 28.1	1	03	9	9	E	LEAR 6423	
31	ASR	2340E	0353D	S15	E90	01 7.8			9	9	E	PALE	



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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."