

H - ALPHA SOLAR FLARES

DECEMBER 1982

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)		
LEAR	01	0009	0013	0027	S14	E05	4007	12	1.4	18	SN	C	2.0	3	C		85		F
PURP	01	0036E	0036	0036D	S17	E08		12	1.6	18D	SN				P	0036	7	.1	E
GOES	01	0122	0140	0143			4005			21		C	1.4						
LEAR	01	0144	0144	0148	S11	E20	4005	12	2.6	4	SF			3	C		38		
GOES	01	0341	0356	0408						27		C	2.9						
LEAR	01	0605	0609	0616	S21	E04	4007	12	1.6	11	SF	C	.9	3	C		88		F
YUNN	01	0605	0612U	0618	S19	E04		12	1.6	13	SF				P	0612	31	.3	
PURP	01	0612E	0612	0616	S19	E07		12	1.8	4D	SF				P	0612	52	.6	
WEND	01	1224	1232	1238	S11	E17		12	2.8	14	SF				C	1232	28	.3	
RAMY	01	1225	1225	1251	S12	E17	4005	12	2.8	26	SN	C	1.2	3	C		47		F
GOES	01	1941	2007	2007						26		C	1.3						
RAMY	01	2023	2024	2040	S12	W10	4007	12	1.1	17	SF			3	C		22		
LEAR	01	2344	2351	0038	N07	E76		12	7.7	54	SF			3	C				
LEAR	02	0011	0011	0014	N15	E64	4010	12	6.9	3	SF	C	2.0	3	C		23		F
PEKG	02	0018	0026	0054	N07	E76		12	7.7	36	SF				C	0026	25		D
LEAR	02	0145	0147	0204	S09	E07	4005	12	2.6	19	SF			3	C		32		F
LEAR	02	0145	0153	0204	S09	E07	4005	12	2.6	19	SF			3	C		27		K
LEAR	02	0244	0250	0404	N11	E59		12	6.6	80	SF			3	C		45		K
LEAR	02	0244	0257	0404	N11	E59		12	6.6	80	SN			3	C		76		FHK
LEAR	02	0249	0300	0320	S14	E06	4005	12	2.6	31	SN	C	2.1	3	C		58		F
PEKG	02	0300	0306	0330	S13	E06		12	2.6	30	SF				C	0306	42	.4	D
LEAR	02	0424	0425	0430	N16	E64		12	7.0	6	SF			3	C		22		
PURP	02	0458	0459	0505	S12	W15		12	1.1	7	SF				C	0459	13	.1	E
PURP	02	0505	0509	0520	N14	E63		12	7.0	15	SN				C	0509	46	1.1	
GOES	02	0506	0509	0515						9		C	1.2						
PEKG	02	0613	0618	0635	N14	E62		12	6.9	22	SF				P	0618	84	1.8	E
LEAR	02	0618	0619	0623	N13	E62	4012	12	6.9	5	SF	C	2.0	3	C		53		F
PEKG	02	0642	0644	0725	S15	W12		12	1.4	43	1B				C	0644	197	2.2	E
MANI	02	0642E	0645	0714D	S15	W11		12	1.4	32D	SN			1	V		120	1.3	F
LEAR	02	0642	0646	0726	S16	W11	4007	12	1.4	44	SN	C	5.1	3	C		133		F
PURP	02	0643	0645	0737	S16	W11		12	1.4	54	SB				C	0645	92	1.0	
GOES	02	1023	1026	1028						5		C	2.0						
RAMY	02	1344	1352	1358	S18	W24	4007	11	30.7	14	SF			3	C		23		
RAMY	02	1414	1414	1427	S14	E00	4005	12	2.6	13	SN			3	C		24		
RAMY	02	1414E	1415	1514	N06	E67		12	7.6	60D	SN			3	C		38		
GOES	02	1431	1437	1447						16		C	2.3						
RAMY	02	1514	1518	1551	S07	W02	4005	12	2.5	37	SB	C	2.7	3	C		158		FE
RAMY	02	1534	1601	1610	N07	E65		12	7.5	36	SF			3	C		34		
RAMY	02	1733	1745	1940	N14	E53	4012	12	6.7	127	1B	M	1.3	3	C		164		UE
HOLL	02	1806E	1807	2235	N12	E50	4012	12	6.5	269D	2N			3	C		412		K
HOLL	02	1806E	2115	2235	N12	E50	4012	12	6.5	269D	2B			3	C		567		USK
GOES	02	2107	2117	2141			4014			34		M	1.8						
HOLL	02	2107	2124	2133	S14	W04	4005	12	2.6	26	SF			3	C		33		
HOLL	02	2236	2241	2331D	N06	E61	4014	12	7.5	55D	SF			3	C		22		
HOLL	02	2237	2238	2249	N14	E52	4012	12	6.9	12	SN			3	C		45		
HOLL	02	2257	2259	2309	N14	E51	4012	12	6.8	12	SN			3	C		69		
GOES	02	2300	2303	2306						6		C	5.2						
HOLL	02	2311	2313	2313D	S08	W06	4005	12	2.5	20	1F			3	C		206		
LEAR	02	2312	2313	2339	S09	W07	4005	12	2.4	27	SF			3	C		88		F
YUNN	03	0027	0032	0058	N16	E52		12	7.0	31	SN				C		47	.8	
PURP	03	0042	0046	0110	N15	E51		12	6.9	28	SN				C	0046	20	.3	
YUNN	03	0059	0115	0137	N06	E61		12	7.6	38	1B				C		126	2.7	
PEKG	03	0103	0115	0130	N07	E59		12	7.5	27	1N				C	0115	126	2.5	E
LEAR	03	0104	0116	0247	N05	E60	4014	12	7.5	103	1B	M	1.4	3	C		208		ZF
PURP	03	0109	0115	0209	N07	E64		12	7.8	60	SN				C	0115	52	1.2	
LEAR	03	0233	0235	0241	S14	W06	4005	12	2.7	8	SF			3	C		52		
YUNN	03	0251E	0300U	0320	N06	E59		12	7.5	29D	SN				P	0300	63	1.2	
LEAR	03	0303	0303	0325	S10	W07	4005	12	2.6	22	SF			3	C		101		F
PURP	03	0304	0304	0323	S10	W06		12	2.7	19	SF				C	0304	40	.4	E
PEKG	03	0413	0442	0456	N06	E60		12	7.7	43	SN				C	0442	76	1.5	E
GOES	03	0427	0430	0432						5		C	1.9						
PEKG	03	0445	0456	0514	S08	W10		12	2.4	29	SF				C	0456	21	.2	D
YUNN	03	0541E	0542U	0553D	N06	E59		12	7.7	12D	SB				P	0542	63	1.2	
PEKG	03	0545	0610	0630	N07	E59		12	7.7	45	SF				C	0610	67	1.3	E
GOES	03	0603	0604	0611			4014			8		C	3.1						
PEKG	03	0630	0649	0705	S13	W29		12	1.1	35	SF				C	0649	55	.6	E
LEAR	03	0638	0638	0704	S13	W28	4007	12	1.2	26	SN			3	C		61		F
LEAR	03	0744	0749	0804	N11	E48	4012	12	6.9	20	SN	C	1.9	3	C		46		F
GOES	03	0821	0824	0826						5		C	2.5						

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											Opt	Xray	See				Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
[WEND	03	0859	0910	N08	E56		12	7.6	78	1B				C	0910	206	3.8	Z
	LEAR	03	0900	0905	N06	E55	4014	12	7.5	25	1B	M 1.3	3	C		216		FE	
	WEND	03	0908	0912	S13	W09		12	2.7	14	SF			C	0912	25	.3		
	GOES	03	0953	1005	1013					20		C 8.6							
	GOES	03	1216	1219	1221					5		C 2.4							
[	RAMY	03	1219	1250	S21	W24	4007	12	1.7	198D	SN		3	C		77			
	WEND	03	1222	1238	S18	W25		12	1.6	24D	SF			C	1238	106	1.3	L	
	RAMY	03	1223	1246	1259	N06	E55	4014	12	7.6	36	SF		C		30			
	RAMY	03	1414E	1415	1431	S12	W13	4005	12	2.6	17D	SN	C 1.4	3	C		26		
	HOLL	03	1449	1459	1512	S17	W27	4007	12	1.6	23	SF		3	C		100		F
	GOES	03	1719	1722	1724					5		C 2.0							
	HOLL	03	1749	1750U	1750D	S11	W13	4005	12	2.8	1D	SF		3	C		38		
	GOES	03	1813	1821	1840			4007		27		C 1.8							
	RAMY	03	1831	1841	1852	N13	W07	4013	12	3.2	21	SF		3	C		31		
	RAMY	03	1850	1850	1858	S13	W15	4005	12	2.7	8	SN		3	C		24		
	GOES	03	2024	2028	2031					7		C 2.1							
	GOES	03	2109	2117	2126			4010		17		C 3.8							
	GOES	03	2141	2144	2146			4010		5		C 3.4							
[	HOLL	03	2204E	2207	2245	N12	E37	4012	12	6.7	41D	SN		3	C		48		K
	HOLL	03	2204E	2226	2245	N12	E37	4012	12	6.7	41D	SN		3	C		62		K
[	HOLL	03	2300	2303	2324	N05	E49	4014	12	7.6	24	1B	M 1.2	3	C		182		E
	LEAR	03	2301	2303	2321	N06	E50	4014	12	7.7	20	SB		3	C		135		FE
	LEAR	04	0024	0026	0037	N08	E37	4012	12	6.8	13	SF		3	C		64		F
	LEAR	04	0103	0202	0401	S15	W35	4007	12	1.4	178	SF		3	C		131		F
[	PEKG	04	0115E	0125U	0245	S15	W35		12	1.4	90D	SN		P	0125	113	1.5	EK	
	YUNN	04	0115	0125	0140	S14	W33		12	1.6	25	SB		C		47	.6		
[	PEKG	04	0115E	0138U	0245	S14	W35		12	1.4	90D	SN		C	0138	126	1.6	E	
	YUNN	04	0328E	0328U	0342	S16	W33		12	1.6	14D	SF		P	0328	31	.4		
	LEAR	04	0333	0334	0343	S14	W20	4005	12	2.6	10	SF		3	C		32		
	LEAR	04	0346	0347	0358	N06	E44	4014	12	7.5	12	SF		3	C		43		
	LEAR	04	0526	0527	0556	S13	W21	4005	12	2.6	30	SF	C 2.9	3	C		77		F
	LEAR	04	0528	0528	0535	N06	E46	4014	12	7.7	7	SN		3	C		43		
	LEAR	04	0606	0609	0631	N06	E42	4014	12	7.4	25	SN	C 2.5	3	C		93		
	LEAR	04	0653	0654	0716	N06	E42	4014	12	7.4	23	SF		3	C		38		
	GOES	04	0738	0744	0748					10		C 2.0							
	LEAR	04	0757	0802	0845	S17	W38	4007	12	1.4	48	SN		3	C		67		F
	GOES	04	0800	0817	0819					19		C 3.5							
[	LEAR	04	0907	0916	0924D	N06	E39	4014	12	7.3	17D	1B	M 1.0	3	C		287		
	WEND	04	0911	0917	0940D	N07	E41		12	7.5	29D	1B			C	0917	180	2.5	
	MONT	04	0914	0916	0936	N07	E39		12	7.3	22	SN			C	0916	110		W
	GOES	04	1010	1042	1047					37		C 8.6							
[	WEND	04	1011	1030	1057D	N08	E40		12	7.4	46D	1N			C	1030	212	2.9	
	MONT	04	1013	1021	1021D	N07	E39		12	7.3	8D	SN			C	1021	70		
[	WEND	04	1156	1204	1236	N12	E30		12	6.8	40	1B			C	1204	250	3.0	
	GOES	04	1200	1207	1227					27		M 2.0							
	WEND	04	1254	1255	1258	N09	E17		12	5.8	4	SN			C	1255	25	.3	
[	WEND	04	1359	1401	1406	N07	E38		12	7.4	7	SN			C	1401	31	.4	
	GOES	04	1359	1402	1406					7		C 3.3							
	HOLL	04	1432	1508	1604	S08	W28	4005	12	2.5	92	SF		3	C		94		F
	HOLL	04	1451	1500	1523	S14	W41	4007	12	1.5	32	SF		3	C		121		F
	HOLL	04	1503	1508	1525	N08	E39	4014	12	7.6	22	SF		3	C		33		
	HOLL	04	1559	1601	1639	N06	E38	4014	12	7.5	40	SN		3	C		63		F K
	HOLL	04	1559	1631	1639	N06	E38	4014	12	7.5	40	SN		3	C		39		K
	RAMY	04	1603	1603	1707	N09	E39	4014	12	7.6	64	SN		3	C		75		
[	GOES	04	1618	1628	1636			4017		18		C 3.4							
	RAMY	04	1633	1633	1648	S16	W41	4007	12	1.6	15	SF		3	C		28		
	GOES	04	1713	1727	1745			4017		32		M 1.2							
	HOLL	04	1731	1734	1743	N06	E38	4014	12	7.6	12	SF		3	C		20		F
	HOLL	04	1824	1831	1853	S16	W43	4007	12	1.5	29	SF		3	C		27		F
	HOLL	04	1840	1842	1850	S12	W28	4005	12	2.7	10	SF		3	C		21		F
	HOLL	04	1853	1856	1934	S08	W31	4005	12	2.5	41	SF		3	C		45		
	HOLL	04	1853	1912	1921	S17	W43	4007	12	1.5	28	SN		3	C		37		F
	HOLL	04	1911	1923	1929	N14	W21	4013	12	3.2	18	SF		3	C		40		F
	HOLL	04	1949	2028	2031	S16	W44	4007	12	1.5	42	SN		3	C		29		F
[	GOES	04	1954	1959	2018			4017		24		C 5.2							
	HOLL	04	2003E	2004U	2027	S11	E83		12	11.1	24D	SN		3	C				
	HOLL	04	2005	2007	2037	N08	E35	4014	12	7.5	32	SN		3	C		46		F
	GOES	04	2026	2031	2036			4017		10		C 6.3							
	HOLL	04	2034	2045	2238	S16	W44	4007	12	1.5	124	SN		3	C		65		F
	HOLL	04	2120	2122	2126	S11	E82	4017	12	11.1	6	SF	M 1.0	3	C				

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																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
HOLL	04	2130	2132	2147	N08	E35	4014	12	7.5	17	SN		3	C		26		F
HOLL	04	2150	2153	2202	N14	W23	4013	12	3.2	12	SF		3	C		36		F
HOLL	04	2151	2155	2156	S10	E82	4017	12	11.1	5	SF		3	C				
LEAR	04	2349	2349	0004	S14	W30	4005	12	2.7	15	SF		3	C		34		
GOES	05	0025	0032	0038						13		C 3.5						
GOES	05	0201	0208	0215						14		C 4.1						
PEKG	05	0203	0210	0224	N08	E33		12	7.6	21	SN			C	0210	42	.5	E
PEKG	05	0248	0258	0304	S15	W48		12	1.5	16	SF			P	0258	76	1.2	E
PEKG	05	0258E	0258	0319	N13	E25		12	7.0	21D	SN			P	0258	130	1.5	E
LEAR	05	0320E	0320U	0337	N12	W27	4013	12	3.1	17D	SN		2	C		86		H
PEKG	05	0323E	0325	0330	N12	W28		12	3.0	7D	SN			C	0325	46	.5	D
LEAR	05	0326	0328	0340	S10	W34	4005	12	2.6	14	SF		2	C		53		F
LEAR	05	0427	0432	0449	N08	E31	4014	12	7.5	22	SN	C 4.8	3	C		77		F
PEKG	05	0428	0435	0444	N11	E31		12	7.5	16	SN			C	0435	76	.9	E
LEAR	05	0525	0529	0537	S17	W50	4007	12	1.4	12	SF		3	C		25		
LEAR	05	0555	0558	0614	N12	W29	4013	12	3.1	19	SN	C 3.0	3	C		103		
PEKG	05	0556	0600	0609	N13	W28		12	3.1	13	SN			C	0600	67	.8	E
LEAR	05	0609	0614	0646	N08	E30	4014	12	7.5	37	SN	C 5.5	3	C		79		F
PEKG	05	0615	0619	0635	S09	E29		12	7.4	20	1N			C	0619	214	2.5	F
LEAR	05	0712	0714	0731	S16	W53	4007	12	1.3	19	SF		3	C		21		F
GOES	05	0807	0814	0824						17		C 5.8						
WEND	05	0916	0916	0918	N11	E13		12	6.4	2	SN			C	0916	25	.3	
WEND	05	0916	0918	0926	S09	E85		12	11.8	10	SF			C	0918	19		
LEAR	05	0921	0922	0924	S11	E76	4017	12	11.1	3	SF			C				
GOES	05	0958	1004	1025						27		M 2.8						
GOES	05	1152	1157	1203						11		C 2.3						
RAMY	05	1227	1228	1259	N08	E09	4010	12	6.2	32	SF		3	C		76		
RAMY	05	1227	1229	1248	N09	E13	4012	12	6.5	21	SF		3	C		55		
GOES	05	1428	1434	1447			4014			19		C 3.9						
RAMY	05	1435	1435	1436D	N05	E28	4014	12	7.7	1D	1N		3	C		236		
RAMY	05	1435	1435	1438D	N08	E26	4014	12	7.6	3D	1N		3	C		236		
HOLL	05	1435	1435	1520	N08	E26	4014	12	7.6	45	1N		1	C		200		E
HOLL	05	1615	1624	1640	N08	E25	4014	12	7.6	25	SB	M 1.0	3	C		165		E
HOLL	05	1654	1657	1722	S12	E77	4017	12	11.5	28	1F	C 3.5	3	C				
HOLL	05	1713	1713	1722	S16	W55	4007	12	1.5	9	SN		3	C		21		
HOLL	05	1822	1836	1840	S15	W53	4007	12	1.7	18	SN		3	C		14		
RAMY	05	1832	1837	1845	N13	E15	4012	12	6.9	13	SN		3	C		39		
GOES	05	1942	1959	2030			4005			48		C 3.3						
HOLL	05	2027	2029	2051	N08	E23	4014	12	7.6	24	SN	C 4.8	3	C		134		
HOLL	05	2038	2041	2053	S10	W41	4005	12	2.8	15	SF		3	C		20		
HOLL	05	2110	2118	2220	N13	E14	4012	12	6.9	70	SN	C 2.8	3	C		117		K
HOLL	05	2110	2129	2220	N13	E14	4012	12	6.9	70	SF		3	C		115		K
HOLL	05	2246	2250	2306	N09	E21	4014	12	7.5	20	SB		3	C		63		
GOES	06	0126	0219	0252						86		C 7.3						
GOES	06	0444	0446	0448			4014			4		C 2.4						
GOES	06	0502	0507	0537						35		C 4.2						
PEKG	06	0505	0510	0520	S11	E80		12	12.2	15	SF			C	0510	46		D
PEKG	06	0555	0556	0600	S10	E68		12	11.4	5	SN			C	0556	34		E
LEAR	06	0651E	0651U	0719	S11	E49	4016	12	10.0	28D	SF		2	C		40		F
LEAR	06	0703	0705	0734D	N04	W09	4010	12	5.6	31D	SF		2	C		47		F
LEAR	06	0736E	0740U	0745D	N07	E19	4014	12	7.7	9D	SN		2	C		43		F
LEAR	06	0743E	0743U	0812	S24	W26	4019	12	4.3	29D	SF		2	C		27		
GOES	06	0744	0747	0749			4014			5		C 2.6						
GOES	06	0808	0817	0838						30		M 2.9						
LEAR	06	0813E	0830U	0915	N12	E07	4012	12	6.9	62D	SF		2	C		86		FH
LEAR	06	0818E	0825U	0904	N12	W43	4013	12	3.1	46D	SF		2	C		58		F
LEAR	06	0852	0854	0912	S24	W26	4019	12	4.4	20	SF		2	C		32		F
GOES	06	1029	1032	1037						8		C 2.8						
GOES	06	1302	1305	1308						6		C 2.2						
GOES	06	1346	1353	1400						14		C 2.0						
RAMY	06	1400	1437	1533	N13	W47	4013	12	3.0	93	1N	C 3.0	3	C		197		K
RAMY	06	1458	1530	1614	S23	W30	4019	12	4.3	76	SN		3	C		145		K
RAMY	06	1458	1548	1614	S23	W30	4019	12	4.3	76	SN		3	C		67		K
RAMY	06	1502	1551	1618	N13	E02	4012	12	6.8	76	SF		3	C		64		K
HOLL	06	1523	1530	1626	S22	W28	4019	12	4.5	63	SN		3	C		67		K
HOLL	06	1523	1538	1626	S22	W28	4019	12	4.5	63	SN		3	C		80		K
HOLL	06	1532	1536	1549	S09	W26	4018	12	4.7	17	SN	C 4.4	3	C		31		
RAMY	06	1535	1543	1553	S09	W25	4018	12	4.8	18	SN		3	C		32		
RAMY	06	1545	1545	1602	N03	E04		12	7.0	17	SF		3	C		33		

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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)						
▲	HOLL	06	1545	1547	1554	N01 E07	4014	12	7.2	9	SF		3	C		24							
	HOLL	06	1555	1556	1614	N14 W47	4013	12	3.1	19	SF		3	C		18							
	RAMY	06	1614	1638	1641	S23 W30	4019	12	4.4	27	SF		3	C		34							
	[	HOLL	06	1623	1625	1633	N09 E11	4014	12	7.5	10	SN		3	C		100					
		RAMY	06	1624	1625	1630	N09 E11	4014	12	7.5	6	SN		3	C		79						
		[	RAMY	06	1643	1734	1817	S23 W31	4019	12	4.3	94	SN		3	C		108			K	
			RAMY	06	1643	1812	1817	S23 W31	4019	12	4.3	94	1N		3	C		197			K		
			HOLL	06	1650	2025	2028D	S23 W35	4019	12	4.0	218D	1B	C	3.2	3	C		221			E	
			HOLL	06	1652	1654	1657	N06 E08	4014	12	7.3	5	SF		3	C		38					
			RAMY	06	1911E	1911	1933	S15 W73	4007	12	1.3	22D	SF	C	2.9	3	C						
			[	HOLL	06	2008	2030	2207	N08 W04	4012	12	6.5	119	1B		3	C		221			K
				HOLL	06	2008	2037	2207	N08 W04	4012	12	6.5	119	1B	C	8.1	3	C		408			ZUK
				HOLL	06	2011	2013	2028	S10 W57	4005	12	2.6	17	SN		3	C		42				
			[HOLL	06	2019	2025	2154D	S23 W35	4019	12	4.1	95D	1B	C	5.2	3	C		221			E K
				HOLL	06	2019	2146	2154D	S23 W35	4019	12	4.1	95D	SN		3	C		111			K	
				HOLL	06	2029	2037	2102	N06 E01	4014	12	6.9	33	SN		3	C		110			F	
				GOES	06	2104	2117	2147				43		M	2.2								
				HOLL	06	2129	2129	2141	S10 E40	4016	12	9.9	12	SF		3	C		26				
			[	HOLL	06	2155	2213	2251	S14 W78	4007	12	1.0	56	SF		3	C		21			K
				HOLL	06	2155	2247	2251	S14 W78	4007	12	1.0	56	SF		3	C					K	
				HOLL	06	2241	2242	2305	S22 W36	4019	12	4.2	24	SN		3	C		32				
				LEAR	06	2334	2335	2342	N08 E08	4014	12	7.6	8	SF		3	C		28				
				LEAR	06	2346	2347	2356	S17 E81	4021	12	13.2	10	SF		3	C		11				
				YUNN	07	0044	0056	0100	S22 W35		12	4.3	16	SB			P		94			1.3	
				YUNN	07	0044	0056	0104	N15 W53		12	3.0	20	SN			C		47			.8	
				YUNN	07	0047	0106	0106D	S16 E74		12	12.6	19D	1N			P		79				
			[	YUNN	07	0120E	0128	0133	N13 W54		12	3.0	13D	SB			P		31			.6
				LEAR	07	0123	0128	0237	N13 W51	4013	12	3.2	74	SN		3	C		65			A	
				LEAR	07	0125	0126	0134	S10 W31	4018	12	4.7	9	SF		3	C		33				
				GOES	07	0208	0230	0241				33		C	3.6								
			[	GOES	07	0239	0254	0337		4019		58		C	3.7							
				LEAR	07	0243	0249	0250D	S24 W36	4019	12	4.3	7D	SN		3	C		44			F	
				PEKG	07	0245	0249	0258	S23 W37		12	4.3	13	SN			P	0249	84			1.2	
				YUNN	07	0340	0342	0351	N14 W53		12	3.1	11	SN			C		31			.6	
				YUNN	07	0340E	0345	0350	S22 W35		12	4.5	10D	SN			P		31			.4	
				LEAR	07	0403	0403	0422	N13 W53	4013	12	3.2	19	SF		3	C		46				
				LEAR	07	0403	0405	0420	S15 E71	4021	12	12.5	17	SF		3	C		19				
				LEAR	07	0414	0415	0424	N08 E04	4014	12	7.5	10	SF		3	C		29				
				LEAR	07	0426	0456	0504	N13 W53	4013	12	3.2	38	SF		3	C		24				
				LEAR	07	0537	0539	0552	N06 E03	4014	12	7.5	15	SB	C	5.0	2	C		100			FE
				LEAR	07	0601E	0618U	0649	N14 W56	4013	12	3.0	48D	SN	C	6.5	2	C		71			F
			[	LEAR	07	0607E	0614U	0638	N03 W06	4014	12	6.8	31D	SF		2	C		66			F
				PEKG	07	0609	0614	0620	N04 W07		12	6.7	11	SF			P	0614	84			.9	
				PEKG	07	0609	0614	0626	N15 W56		12	3.0	17	SN			P	0614	59			1.1	
				LEAR	07	0632	0635	0639	N13 W06	4012	12	6.8	7	SF		2	C		33				
			[	ISTA	07	0647		0654	N04 W03		12	7.1	7	SN								D
				LEAR	07	0648	0658	0702	N03 W04	4014	12	7.0	14	SF		3	C		46			F	
				ISTA	07	0701		0706	N08 E06		12	7.7	5	SF								D	
				ISTA	07	0725		0729	N04 W03		12	7.1	4	SF								E	
				ISTA	07	0735		0751	N05 W07		12	6.8	16	SF								E	
				LEAR	07	0828	0829	0850	N14 W57	4013	12	3.0	22	SF	C	4.9	3	C		39			F
				GOES	07	1001	1009	1036		4021		35		M	1.5								
				RAMY	07	1301	1302	1309	N02 W08		12	6.9	8	SN		3	C		32				
				GOES	07	1316	1320	1326				10		C	9.9								
				RAMY	07	1409	1410	1417	N13 W58	4013	12	3.2	8	SN		3	C		18				
				RAMY	07	1418	1429	1450	S15 W63	4005	12	2.8	32	SN		3	C		27				
				RAMY	07	1424	1433	1442	S22 W40	4019	12	4.5	18	SN		3	C		45				
				RAMY	07	1427	1428	1436	N14 W59	4013	12	3.1	9	SN		3	C		25				
			[RAMY	07	1510	1511	1550	N05 W03	4014	12	7.4	40	1B	M	1.2	3	C		413			K
				RAMY	07	1510	1521	1550	N05 W03	4014	12	7.4	40	SB		3	C		136			K	
				RAMY	07	1639	1702	1739	N09 E82	4022	12	13.9	60	SN	C	8.9	3	C					
				RAMY	07	1743	1747	1759	S12 W68	4005	12	2.6	16	SN		3	C		53				
			[RAMY	07	1743	1809	1842	S19 W79	4007	12	1.7	59	SB	M	1.3	3	C					F
				RAMY	07	1748	1749	1810D	S23 W41	4019	12	4.6	22D	SB	M	1.0	3	C		76			
				HOLL	07	1811E	1817U	1846	S17 W83	4007	12	1.4	35D	SN		3	C					F	
				HOLL	07	1843	1843	1855	S11 E43	4017	12	11.0	12	SF		3	C		18				
				RAMY	07	1845	1846	1900	N13 W59	4013	12	3.3	15	SN		3	C		16				
				RAMY	07	1900E	1917	1925	N14 W61	4013	12	3.2	25D	SN		3	C		21				
				HOLL	07	2102	2108	2122	S11 E44	4017	12	11.2	20	SF		3	C		22				
				GOES	07	2121	2130	2133				12		C	4.4								

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
LEAR	07	2315	2316		S23	W45	4019	12	4.5										
LEAR	07	2317	2317	2323	N09	E79	4022	12	13.9	6		SF	3	C		42			
LEAR	07	2325	2340	0059	S10	E49	4017	12	11.7	94		1N	3	C		222			F
GOES	07	2336	2354	0047			4007			71		X 2.8							
LEAR	07	2341	2351	0046	S19	W86	4007	12	1.4	65		1B	3	C					UF
LEAR	07	2346	2351	0008	N16	E87	4022	12	14.6	22		SB	3	C					EH
YUNN	08	0023E	0100	0504D	S16	W90		12	1.2	281D				P					
LEAR	08	0044	0055	0148	N08	W08	4014	12	7.4	64		SB	3	C		195			A
YUNN	08	0045	0055	0115	N08	W08		12	7.4	30		SB		C		189	2.0		FE
LEAR	08	0050	0051	0102	N09	E77	4022	12	13.8	12		SF	3	C					F
PEKG	08	0109	0112	0116	N08	W07		12	7.5	7		SN		P	0112	109	1.2		E
YUNN	08	0120	0122	0124	S16	E67		12	13.1	4		SF		C		16			D
YUNN	08	0135	0138	0145	S16	E67		12	13.2	10		SN		C		31			E
LEAR	08	0139	0140	0144	S15	E70	4021	12	13.4	5		SF	3	C		15			
LEAR	08	0146	0148	0159	N13	W65	4013	12	3.2	13		SF	3	C		21			
LEAR	08	0227	0233	0256	N14	W65	4013	12	3.2	29		SN	3	C		60			
YUNN	08	0230	0234	0236	N05	W05		12	7.7	6		SN		C		16	.2		D
YUNN	08	0230	0234	0240	N13	W61		12	3.5	10		SN		P		31	.7		
PEKG	08	0233	0234	0235	N07	W05		12	7.7	2		SN		P	0234	42	.4		E
PEKG	08	0234E	0234	0238	N15	W67		12	3.0	4D		SN		P	0234	34			D
LEAR	08	0241	0307	0419	N07	E72	4022	12	13.5	98		1N	3	C					D
YUNN	08	0253	0300	0312D	N08	E73		12	13.6	19D		1N		P		110			F
PEKG	08	0258E	0309	0341	N08	E74		12	13.7	43D		SN		P	0309	105			E
LEAR	08	0305	0307	0322	S24	W47	4019	12	4.5	17		SN	3	C		90			F
PEKG	08	0309E	0309	0315	S23	W47		12	4.5	6D		SN		P	0309	76	1.2		E
LEAR	08	0313	0313	0317	S16	E69	4021	12	13.4	4		SF	3	C		22			F
YUNN	08	0327E	0327U	0403	N09	E71		12	13.5	36D		1B		P	0327	79			F
LEAR	08	0416	0420	0423	S16	E63	4021	12	13.0	7		SN	3	C		46			F
YUNN	08	0451	0455	0504	S16	E61		12	12.8	13		SN		C		16	.4		D
LEAR	08	0543	0600	0641	N10	W21	4012	12	6.7	58		SN	3	C		153			F
LEAR	08	0630	0631	0638	N14	W67	4013	12	3.2	8		SF	3	C		18			
LEAR	08	0728	0730	0736	N09	E72	4022	12	13.7	8		SF	3	C					
ISTA	08	0755E		0800	S16	E64		12	13.2	5D		SF							D
LEAR	08	0828	0835	0912	N10	E72	4022	12	13.8	44		1F M 1.1	3	C					F
ISTA	08	0829		0848	N09	E76		12	14.1	19		1N							E
ISTA	08	0836		0841	N06	W07		12	7.8	5		SF							D
GOES	08	1106	1112	1203			4022			57		M 1.9							
RAMY	08	1323	1443	1837	N07	E68	4022	12	13.7	314		2B M 6.7	3	C		443			ZUK
RAMY	08	1328	1337	1347	S10	E34	4017	12	11.1	19		SF	3	C		23			
RAMY	08	1814	1814	1826	S22	W59	4019	12	4.2	12		SF	3	C		28			
GOES	08	1935	1940	2016						41		M 1.3							
LEAR	08	2356	0002	0027	11	E60	4022	12	13.5	31		SF	3	C		75			F
LEAR	09	0129	0130	0140	S22	W60	4019	12	4.4	11		SN	2	C		69			F
LEAR	09	0202	0202	0216	N06	W20	4014	12	7.6	14		SF	3	C		94			F
LEAR	09	0215	0256	0349	N11	E68	4022	12	14.2	94		SN	3	C		87			
LEAR	09	0221	0307	0340	S11	E26	4017	12	11.1	79		SF	2	C		142			F
YUNN	09	0233E	0233U	0301D	N11	E70		12	14.4	28D		1N		P	0233	79			
LEAR	09	0235	0245	0334	N03	W24	4014	12	7.3	59		1N M 1.3	2	C		375			F
YUNN	09	0252E	0300U	0301D	N07	W22		12	7.5	9D		1B		P	0300	204	2.3		FT
PEKG	09	0255E	0300	0307	N11	E70		12	14.4	12D		SF		P	0300	42			D
PEKG	09	0255E	0300	0309	N07	W23		12	7.4	14D		SN		P	0300	105	1.2		F
LEAR	09	0410	0420	0531	N07	W22	4014	12	7.5	81		1N	3	C		208			K
LEAR	09	0410	0451	0531	N07	W22	4014	12	7.5	81		1B C 6.6	3	C		452			FEK
YUNN	09	0420E	0420U	0435	N07	W22		12	7.5	15D		SN		P	0420	79	.9		T
LEAR	09	0425	0432	0440	N11	E69	4022	12	14.4	15		SF	3	C		32			F
GOES	09	0445	0451	0500			4014			15		M 2.4							
YUNN	09	0447	0452	0500D	N09	W25		12	7.3	13D		SB		P		157	1.8		T
PEKG	09	0448	0451	0500	N10	W26		12	7.2	12		1N		C	0454	168	2.0		F
LEAR	09	0517	0522	0536	N09	E60	4022	12	13.7	19		SF	3	C		73			F
LEAR	09	0552	0601	0607	S17	E47	4021	12	12.8	15		SF	3	C		26			F
GOES	09	0635	0639	0643						8		C 9.5							
YUNN	09	0637	0642	0654	N07	W22		12	7.6	17		SF		C		47	.5		T
ISTA	09	0640E		0700	N07	W19		12	7.9	20D		SB							E
ISTA	09	0640E		0733	N03	W30		12	7.0	53D		2B							BF
LEAR	09	0645	0647	0716	N05	W28	4014	12	7.2	31		SF	3	C		70			F
YUNN	09	0651	0706	0740	N02	W32		12	6.9	49		SF		C		79	1.0		FT
LEAR	09	0713	0715	0721	N14	W70	4023	12	4.0	8		SF	3	C		18			
ISTA	09	0730		0740	N11	E69		12	14.5	10		SF							D
ISTA	09	0733		0743	N07	W25		12	7.4	10		SN							E

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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)			
GOES	09	0816	0822	0826						10		C	5.6							
[	YUNN	09	0842	0843	0848	N11 E67		12	14.4	6	1N			C		79			
	LEAR	09	0843	0845	0903	N10 E56	4022	12	13.6	20	SN	C	8.8	3	C		131	F		
	LEAR	09	0925	0926	0959D	N09 E58	4022	12	13.7	34D	SN			3	C		33	F		
	GOES	09	1031	1040	1102		4014			31		M	1.9							
	GOES	09	1123	1138	1229					66		M	9.2							
	GOES	09	1345	1354	1405					20		M	1.9							
	GOES	09	1413	1418	1428					15		M	1.9							
	RAMY	09	1444	1604	1635	N08 W28	4014	12	7.5	111	1B	M	1.7	3	C		199			
	RAMY	09	1612	1637	1659	N11 E53	4022	12	13.7	47	SB	C	6.3	3	C		140	K		
	[RAMY	09	1736	1737	1815	N09 E54	4022	12	13.8	39	SN			3	C		38	K	
		RAMY	09	1736	1800	1815	N09 E54	4022	12	13.8	39	SB	M	1.0	3	C		108	E K	
		RAMY	09	1900	1903	1929	N10 E51	4022	12	13.6	29	SB	M	1.0	3	C		127	U	
	GOES	09	2145	2149	2215		4022			30		M	2.3							
	LEAR	09	2224E	2229U	2310	N09 E52	4022	12	13.8	46D	1F			2	C		228	FH		
	[LEAR	09	2257	2304	2339	N08 W37	4014	12	7.2	42	SB	M	1.1	3	C		132	FEK	
		LEAR	09	2257	2318	2339	N08 W37	4014	12	7.2	42	SB			3	C		149	K	
	GOES	09	2315	2319	2327					12		M	1.0							
[	GOES	10	0016	0028	0043					27		M	2.5						
	LEAR	10	0025	0029	0043	S12 E18	4017	12	11.4	18	SF			3	C		37			
	LEAR	10	0037	0038	0044	N11 E58	4022	12	14.4	7	SF			3	C		28			
	LEAR	10	0041	0054	0206	N07 W35	4014	12	7.4	85	1B	M	2.3	3	C		394	FE		
[	YUNN	10	0100	0101	0115	N08 W36		12	7.3	15	SB				C		31	.4	
	GOES	10	0114	0119	0132		4014			18		M	2.3							
	LEAR	10	0131	0131	0141D	S16 E37	4021	12	12.9	10D	SF			3	C		49	F		
	LEAR	10	0156	0159	0205	N09 E49	4022	12	13.8	9	SN	M	1.4	3	C		108	F		
	LEAR	10	0158	0159	0204	S16 E35	4021	12	12.7	6	SF			3	C		45			
	LEAR	10	0222	0228	0234	N09 E48	4022	12	13.7	12	SF			3	C		113	F		
	LEAR	10	0227	0227	0232	S10 W77	4018	12	4.3	5	SF			3	C					
	LEAR	10	0236	0237	0326	N07 W36	4014	12	7.4	50	SN			3	C		68	K		
	[LEAR	10	0236	0248	0326	N07 W36	4014	12	7.4	50	1B	M	5.2	3	C		213	FEK	
		LEAR	10	0237	0241	0556	N09 E47	4022	12	13.6	199	1B			3	C		282	UFK	
		LEAR	10	0237	0432	0556	N09 E47	4022	12	13.6	199	2B			3	C		676	K	
	MANI	10	0242E	0245	0252D	N09 W35		12	7.5	10D	1B			1	V		250	3.2		
	LEAR	10	0340	0342	0347	N05 W37	4014	12	7.4	7	SN			3	C		43	F		
	YUNN	10	0355	0505	0631	N07 E49		12	13.8	156	3B				P		1336	21.1		
	LEAR	10	0358	0412	0505	N07 W37	4014	12	7.4	67	1B			3	C		184	FE		
	GOES	10	0358	0432	0556		4022			118		M	8.2							
[	YUNN	10	0402	0415	0437	N08 W39		12	7.2	35	1N				C		204	2.7	
	MANI	10	0409	0410U	0415D	N09 W32		12	7.8	6D	SB			1	V		120	1.5		
	LEAR	10	0521	0522	0531	N07 W37	4014	12	7.4	10	SN			3	C		32			
	LEAR	10	0713	0715	0717	S17 E28	4021	12	12.4	4	SF			3	C		19			
	LEAR	10	0753	0754	0759	N06 W40	4014	12	7.3	6	SB			3	C		162			
	GOES	10	0753	0806	0815		4014			22		M	2.2							
[	YUNN	10	0755E	0807	0819	N08 W37		12	7.6	24D	SN				P		94	1.2	
	LEAR	10	0800	0807	0819	N07 W36	4014	12	7.6	19	SB			3	C		40	E		
	LEAR	10	0842	0842	0855	S07 E64	4024	12	15.2	13	SF			3	C		23			
	LEAR	10	0842	0842	0918	N07 W39	4014	12	7.4	36	SN			3	C		44			
	WEND	10	1037E		1044	N11 E50		12	14.2	7D	SF				C		1037	63	1.0	
	WEND	10	1155	1158	1208	S15 E32		12	12.9	13	SN				C		1158	69	.9	
[RAMY	10	1204	1321	1441	N05 W43	4014	12	7.3	157	SB			3	C		126		K	
	RAMY	10	1204	1332	1441	N05 W43	4014	12	7.3	157	1B	M	2.8	3	C		338		F K	
	WEND	10	1225	1240	1244	S21 E23		12	12.3	19	SF				C		1240	28	.3	
	WEND	10	1231	1236	1300D	N11 E46		12	14.0	29D	1F				C		1236	144	2.2	
	WEND	10	1316	1331	1400	N06 W43		12	7.3	44	1N				C		1331	268	3.8	
	RAMY	10	1602	1821	1904	N08 W47	4014	12	7.1	182	1B			3	C		361		K	
	[RAMY	10	1602	1822	1904	N08 W47	4014	12	7.1	182	1B	C	9.3	3	C		389		K
	GOES	10	1748	1759	1802		4014			14		M	1.0							
	GOES	10	1814	1820	1832		4014			18		M	4.1							
	RAMY	10	1854	1857	1909	S08 E84	4025	12	17.1	15	SN			3	C					
	RAMY	10	1900	1903	1908	S14 E24	4021	12	12.6	8	SF			3	C		74			
	RAMY	10	1911	2000	2019D	N06 W47	4014	12	7.3	68D	SN			3	C		45			
	RAMY	10	1923	1927	1958	S08 E83	4025	12	17.0	35	SB			3	C					
	RAMY	10	1943	1943	2000	S09 E03	4017	12	11.0	17	SN			3	C		38			
	RAMY	10	1952	1958	2019D	S14 E23	4021	12	12.6	27D	SB			3	C		88			
	GOES	10	2208	2211	2216					8		C	4.4							
	GOES	10	2254	2255	2257					3		C	4.0							
	GOES	10	2354	2356	2358					4		C	3.7							
GOES	11	0001	0002	0004						3		C	4.0							

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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)	
GOES	11	0029	0033	0039						10		C 6.6						
LEAR	11	0043	0044	0048	S15	E19	4021	12	12.5	5	SF		3	C		35		
GOES	11	0059	0101	0109						10		C 5.3						
PEKG	11	0122E	0122	0123D	S16	E22		12	12.7	1D	SF			C	0122	84	1.0	E
PEKG	11	0142	0143	0152	N07	W55		12	6.9	10	SF			C	0143	113	2.0	F
MANI	11	0142E	0143U	0147D	N07	W60		12	6.6	5D	SB		1	V		80	1.5	
GOES	11	0142	0143	0147			4014			5		C 6.3						
PEKG	11	0226	0232	0330	N04	W60		12	6.6	64	1F			C	0232	101	2.1	E
LEAR	11	0234	0246	0308	N05	W55	4014	12	7.0	34	SN	C 6.2	3	C		90		F
PEKG	11	0245	0248	0256	N09	W52		12	7.2	11	1N			C	0248	126	2.1	E
PEKG	11	0247	0248	0251	S14	E19		12	12.6	4	SF			C	0248	50	.6	E
LEAR	11	0247	0248	0258	S14	E20	4021	12	12.6	11	SN	M 1.1	3	C		116		F
LEAR	11	0313	0318	0330	N11	E42	4022	12	14.3	17	SF		3	C		33		F
LEAR	11	0326	0328	0331	S13	E19	4021	12	12.6	5	SN		3	C		70		F
PEKG	11	0343E	0346	0350	S14	E19		12	12.6	7D	SN			C	0346	122	1.4	E
LEAR	11	0343	0346	0420	S14	E19	4021	12	12.6	37	SB	C 6.0	3	C		197		FE
LEAR	11	0343	0358	0420	S14	E19	4021	12	12.6	37	1N		3	C		218		K
PEKG	11	0354	0356	0405	S14	W18		12	9.8	11	SN			C	0356	126	1.4	F
LEAR	11	0400	0403	0413	N06	W49	4014	12	7.5	13	1B	C 7.5	3	C		215		FE
PEKG	11	0401	0404	0407	N08	W50		12	7.4	6	1N			C	0404	185	3.0	D
MANI	11	0402E	0402U	0408D	N08	W52		12	7.3	6D	SN		1	V		40	.7	
LEAR	11	0439	0442	0525	S10	E80	4025	12	17.2	46	1B		3	C				UF
GOES	11	0439	0442	0513			4026			34		M 9.5						
PEKG	11	0440	0442	0458	S11	E78		12	17.1	18	SN			C	0442	88		E
LEAR	11	0544	0545	0550	S13	E19	4021	12	12.7	6	SN	C 7.6	3	C		57		
LEAR	11	0552	0606	0659	S12	E03	4017	12	11.5	67	SF		3	C		83		F
LEAR	11	0608	0615	0653	N08	W63	4012	12	6.5	45	1B	C 8.6	2	C		1022		FE
LEAR	11	0651	0652	0715	N09	E33	4022	12	13.8	24	SF		3	C		60		
LEAR	11	0720	0729	0737	N07	W53	4014	12	7.3	17	SN	C 7.8	3	C		69		F
LEAR	11	0913	0915	0929	N07	W54	4014	12	7.3	16	SN		3	C		28		F
LEAR	11	0949	0952	0957	N07	W49	4014	12	7.7	8	SB	M 1.8	3	C		41		
RAMY	11	1335	1338	1344	N04	W57	4014	12	7.3	9	SN		3	C		74		
GOES	11	1405	1431	1450			4012			45		C 5.6						
RAMY	11	1435	1450	1539	N02	W66	4012	12	6.7	64	1N		3	C		128		F
RAMY	11	1440	1441	1451	S13	E74	4025	12	17.2	11	SF		3	C		31		
RAMY	11	1538	1538	1542	N15	E31	4022	12	14.0	4	SN		3	C		35		
RAMY	11	1548	1550	1604	N09	E26	4022	12	13.6	16	SN		3	C		62		
RAMY	11	1712	1713	1717	N06	W57	4014	12	7.4	5	SN		3	C		41		
RAMY	11	1759	1759	1809	S15	E17	4021	12	13.0	10	SF		3	C		27		
GOES	11	1829	1830	1839						10		C 2.7						
RAMY	11	1948	1956	2005	N15	E28	4022	12	13.9	17	SN	C 4.7	3	C		59		
HOLL	11	2124E	2124U	2128D	S15	E11	4021	12	12.7	4D	SN		3	C		25		F
GOES	11	2124	2129	2134			4021			10		C 7.0						
LEAR	11	2247	2248	2254	N07	W61	4014	12	7.4	7	SF		3	C		31		
LEAR	11	2341	2343	0021	N10	E22	4022	12	13.6	40	1N	C 4.6	3	C		236		F
MANI	11	2343E	2343	0018	N10	E23		12	13.7	35D	1N		1	V		200	2.3	F
LEAR	11	2351	2354	0029	S07	E43	4024	12	15.2	38	SF		3	C		25		F
LEAR	12	0013	0016	0028	S09	E69	4026	12	17.2	15	SN		3	C		63		
PEKG	12	0107	0109	0113	N07	W68		12	6.9	6	SF			C	0109	38		D
GOES	12	0108	0116	0118			4014			10		C 2.7						
LEAR	12	0117	0119	0127	N06	W64	4014	12	7.3	10	SF		3	C		55		
PURP	12	0122E	0122	0122D	N07	W65		12	7.2	10D	SN			P	0122	72	1.7	
PURP	12	0122E	0122	0122D	S12	W04		12	11.8	10D	SN			P	0122	40	.4	
PEKG	12	0122	0125	0134	S11	W05		12	11.7	12	SF			C	0125	59	.6	
LEAR	12	0139	0150	0241	N10	E21	4022	12	13.6	62	1N	C 4.2	3	C		287		E
PEKG	12	0159E	0159	0205D	N11	E19		12	13.5	6D	SF			P	0159	126	1.4	E
LEAR	12	0213	0215	0219	N06	W63	4014	12	7.4	6	SN		3	C		38		F
PEKG	12	0214	0215	0220	N07	W66		12	7.1	6	SF			C	0215	34		F
LEAR	12	0249	0250	0256	N08	W62	4014	12	7.5	7	SN	C 5.3	3	C		48		F
PEKG	12	0250	0251	0255	N09	W61		12	7.5	5	SF			C	0251	29	.6	E
LEAR	12	0336	0339	0352	N11	E29	4022	12	14.3	16	SF		3	C		54		
LEAR	12	0404	0406	0422	S17	E12	4021	12	13.1	18	SF		3	C		50		
LEAR	12	0407	0407	0416	S14	E66	4026	12	17.2	9	SF		3	C		32		
LEAR	12	0459	0508	0535	N10	E20	4022	12	13.7	36	SF	C 2.2	2	C		142		F
LEAR	12	0630	0631	0713	N10	E16	4022	12	13.5	43	SF		3	C		83		K
LEAR	12	0630	0646	0713	N10	E16	4022	12	13.5	43	1N	C 4.6	3	C		284		F
PEKG	12	0637	0643	0705	N10	E17		12	13.6	28	1N			C	0643	252	2.8	F
LEAR	12	0933	0934	0959D	S13	W10	4017	12	11.6	26D	SF		2	C		54		F
GOES	12	1157	1159	1204						7		C 2.1						
GOES	12	1249	1310	1320						31		C 2.8						

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
RAMY	12	1322	1324	1329	N06	W67	4014	12	7.5	7	SB	M 1.0	3	C		30			
RAMY	12	1446	1448	1508	N08	E18	4022	12	14.0	22	SB	C 3.4	3	C		65			FE
RAMY	12	1546	1547	1553	N05	W64	4014	12	7.9	7	SN	C 2.7	3	C		49			
GOES	12	1656	1715	1718						22		C 2.6							
RAMY	12	1754	1813	1818	N06	W70	4014	12	7.5	24	SN		3	C		47			
RAMY	12	1756	1802	1811	N08	E16	4022	12	13.9	15	SN	C 3.3	3	C		34			
RAMY	12	1835	1851	1911	N12	E22	4022	12	14.4	36	SN		3	C		103			
GOES	12	2054	2056	2059						5		C 2.1							
GOES	12	2219	2227	2232						13		C 2.4							
LEAR	12	2322	2326	2337	S17	E00	4021	12	13.0	15	SF	C 2.3	3	C		31			
LEAR	13	0116	0116	0126	N07	W75	4014	12	7.4	10	SF	C 2.5	3	C					F
LEAR	13	0141	0146	0150	S12	E54	4026	12	17.1	9	SF	C 2.4	3	C		29			F
GOES	13	0237	0241	0244						7		C 2.1							
PEKG	13	0318	0331	0346	S09	E50		12	16.9	28	1N			C	0331	176	2.9		F
LEAR	13	0321	0326	0418	S09	E51	4026	12	17.0	57	2B	M 8.3	3	C		433			ZU
LEAR	13	0333	0333	0351	S06	E28	4024	12	15.2	18	SF		3	C		23			
LEAR	13	0354	0357	0403	N06	W73	4014	12	7.7	9	SF		3	C					
LEAR	13	0419	0419	0424	S16	E52	4026	12	17.1	5	SF		3	C		33			
GOES	13	0423	0432	0441			4026			18		C 5.6							
LEAR	13	0434	0457	0527	S13	E53	4026	12	17.2	53	SF	C 6.5	3	C		103			F
PURP	13	0502E	0502	0510D	S13	E54		12	17.3	8D	SN			P	0502	85	1.5		
LEAR	13	0610	0610	0622	S04	E36	4025	12	15.9	12	SF		3	C		35			F
LEAR	13	0802	0808	0903	S12	E51	4026	12	17.2	61	2B	M 5.2	3	C		420			FEK
LEAR	13	0802	0824	0903	S12	E51	4026	12	17.2	61	1N		3	C		203			K
LEAR	13	0906	0908	0917	S19	W11	4021	12	12.5	11	SF		3	C		61			
LEAR	13	0952	0953	1001	S04	E34	4025	12	16.0	9	SF		3	C		39			
RAMY	13	1201E	1202	1203	N05	W78	4014	12	7.7	2D	SN		3	C					
RAMY	13	1309	1322	1354	S13	W29	4017	12	11.4	45	1F	C 3.6	3	C		194			UF
RAMY	13	1642	1645	1649	S05	W17	4020	12	12.4	7	SN		3	C		35			
RAMY	13	1744	1750	1822	S10	E42	4026	12	16.9	38	SF	C 2.2	3	C		37			
RAMY	13	1809	1857	1857D	N11	E07	4022	12	14.3	48D	SB		3	C		128			
HOLL	13	1816	1819	1856D	N11	E07	4022	12	14.3	40D	SN		3	C		107			K
HOLL	13	1816	1856	1856D	N11	E07	4022	12	14.3	40D	SB		3	C		115			K
HOLL	13	1817E	1841	1922	S10	E39	4026	12	16.7	65D	SF		3	C		31			K
HOLL	13	1817E	1908	1922	S10	E39	4026	12	16.7	65D	SF		3	C		61			K
HOLL	13	1952	1959	2123	S09	E43	4026	12	17.1	91	1B	M 1.0	3	C		278			ZU
RAMY	13	1957E	1957U	2040D	S09	E40	4026	12	16.8	43D	1B		3	C		201			
HOLL	13	2044	2114	2203	S11	W25	4017	12	12.0	79	1N		3	C		299			K
HOLL	13	2044	2126	2203	S11	W25	4017	12	12.0	79	1B	C 7.0	3	C		306			U K
HOLL	13	2112	2112	2208	N12	E07	4022	12	14.4	56	1N		3	C		289			
GOES	14	0032	0037	0048						16		C 2.5							
GOES	14	0345	0355	0430						45		C 6.0							
PEKG	14	0417	0422	0432	N10	E01		12	14.3	15	SF			P	0422	55	.6		E
GOES	14	0630	0642	0647						17		C 2.9							
GOES	14	0737	0746	0752			4026			15		C 4.3							
LEAR	14	0740	0741	0742D	S10	E34	4026	12	16.9	2D	SF		2	C		45			F
GOES	14	1203	1205	1209						6		C 1.8							
RAMY	14	1244	1246	1302	N11	W02	4022	12	14.4	18	SF		3	C		50			
RAMY	14	1305	1307	1320	S10	E33	4026	12	17.0	15	SB	C 3.1	3	C		73			
RAMY	14	1349	1350	1356	S09	E32	4026	12	17.0	7	SN		3	C		42			
RAMY	14	1400	1401	1426	S08	E06	4024	12	15.0	26	SF	C 2.0	3	C		31			
RAMY	14	1421	1422	1433	S17	W23	4021	12	12.8	12	SN		3	C		43			
HOLL	14	1455	1502	1533	S11	W45	4017	12	11.2	38	SN	C 2.1	3	C		57			F
RAMY	14	1502	1502	1524	S13	W38	4017	12	11.8	22	SN		3	C		45			F
HOLL	14	1523	1541	1552	S11	E32	4026	12	17.1	29	SN	C 2.8	3	C		53			F
RAMY	14	1532	1541	1552	S10	E32	4026	12	17.1	20	SN		3	C		36			F
RAMY	14	1559	1600	1632	S17	W24	4021	12	12.8	33	SN		3	C		47			K
RAMY	14	1559	1613	1632	S17	W24	4021	12	12.8	33	SN		3	C		76			K
HOLL	14	1606	1619	1706	S11	E30	4026	12	16.9	60	SB	C 2.0	3	C		104			FE
RAMY	14	1619	1619	1650	S09	E30	4026	12	16.9	31	SB		3	C		65			F
RAMY	14	1728	1749	1806	S09	E28	4026	12	16.8	38	SN	C 2.1	3	C		33			
HOLL	14	1731	1736	1802	S17	W24	4021	12	12.9	31	SF		3	C		22			F
HOLL	14	1732	1735	1753	S10	E29	4026	12	16.9	21	SF		3	C		35			F
HOLL	14	1752	1752	1800	N10	W15	4022	12	13.6	8	SF		3	C		30			F
HOLL	14	1824	1825	1844	S18	W24	4021	12	12.9	20	SF		3	C		26			
HOLL	14	2011	2012	2017	S16	W25	4021	12	12.9	6	SF		3	C		49			
RAMY	14	2014	2028	2056D	S09	E26	4026	12	16.8	42D	SB		3	C		99			K
HOLL	14	2014	2032	2135	S09	E26	4026	12	16.8	81	SN	C 7.6	3	C		171			F
RAMY	14	2014	2047	2056D	S09	E26	4026	12	16.8	42D	SN		3	C		79			K

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks
															Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
A PALE	14	2015	2018	2123	S09	E27	4026	12	16.9	68	SN		3	C		53		F
HOLL	14	2140	2146	2337	N09	W09	4022	12	14.2	117	1N		3	C		237		F
HOLL	14	2143	2143	2224	S10	E25	4026	12	16.8	41	SF		3	C		25		F
PALE	14	2144	2144	2210	N12	W08	4022	12	14.3	26	SN		3	C		37		F
HOLL	14	2225	2225	2244	S15	W27	4021	12	12.9	19	SN		3	C		31		F
LEAR	14	2230E	2230U	2302	N11	W08	4022	12	14.3	32D	SF		3	C		109		F
GOES	15	0059	0113	0118						19		C 2.1						
PALE	15	0132	0133	0140	S08	E04	4026	12	15.4	8	SF		2	C				
LEAR	15	0150	0159	0326	S10	E24	4026	12	16.9	96	2B	X12.9	3	C		50		F
PEKG	15	0155	0203	0248	S10	E24		12	16.9	53	2N			P	0203	515		Z
PALE	15	0157	0200	0304D	S08	E24	4026	12	16.9	67D	2B		3	C		526	6.0	F
YUNN	15	0158	0203	0227	S08	E23		12	16.8	29	3B			P		957		Z
LEAR	15	0252	0305	0327	S14	W46	4017	12	11.6	35	SF		3	C		1258	14.2	Y
LEAR	15	0328	0329	0351	N10	W18	4022	12	13.8	23	SF		3	C		30		F
LEAR	15	0506	0508	0523	S07	W40	4020	12	12.2	17	SN		3	C		32		F
LEAR	15	0625	0630	0648	S13	W40	4028	12	12.2	23	SN	C 3.5	3	C		68		
LEAR	15	0634	0634	0641	S08	E78	4029	12	21.1	7	SF		3	C		155		F
GOES	15	0823	0825	0829						6		C 4.4						
GOES	15	0906	0914	0921						15		C 4.6						
GOES	15	1222	1226	1229						7		C 3.5						
GOES	15	1320	1323	1328						8		C 3.5						
HOLL	15	1516	1516	1523	S09	E15	4026	12	16.8	7	SF		3	C		23		F
HOLL	15	1536	1540	1551	S10	E15	4026	12	16.8	15	SN		3	C		24		F
HOLL	15	1541	1545	1603	N10	W17	4022	12	14.4	22	SN	C 3.4	3	C		25		F
HOLL	15	1620	1621	1749	S10	E15	4026	12	16.8	89	SN		3	C		36		F
HOLL	15	1620	1637U	1749	S10	E15	4026	12	16.8	89	2B	X 5.0	3	C		614		ZUK
HOLL	15	1647	1648	1705	S12	W59	4017	12	11.3	18	SN		3	C		67		F
GOES	15	1703	1710	1716			4026			13		M 1.4						
HOLL	15	1752	1752	1809	S16	W38	4021	12	12.9	17	SN		3	C		19		F
HOLL	15	1757	1757	1843	N10	W28	4022	12	13.6	46	SN		3	C		57		F
HOLL	15	1813	1823	1851	S11	W56	4017	12	11.5	38	SF		3	C		17		
PALE	15	2045E	2048	2321	S06	W01	4025	12	15.8	156D	1B		2	C		463		K
PALE	15	2045E	2152	2321	S06	W01	4025	12	15.8	156D	2B	M 2.5	2	C		541		FEK
HOLL	15	2047E	2047U	2102D	S05	E03	4025	12	16.1	15D	1B		2	C		457		ZH
PALE	15	2048	2048	2056	S02	W11	4024	12	15.0	8	SF		3	C		38		
GOES	15	2153	2159	2209			4025			16		M 5.2						
PALE	15	2204	2204	2231	N09	W30	4022	12	13.7	27	SN		3	C		46		F
LEAR	15	2252	2256	2301D	S13	W42	4021	12	12.8	9D	SF		3	C		50		
PALE	16	0058	0059	0114	N09	W33	4022	12	13.6	16	SF		2	C		48		F
PALE	16	0130	0131	0148	N15	W40	4021	12	13.0	18	SF		2	C		42		F
PALE	16	0219	0219	0228	S11	E13	4026	12	17.1	9	SF		2	C		26		
LEAR	16	0306	0307	0313	S12	E13	4026	12	17.1	7	SN		3	C		60		
PALE	16	0308	0309	0313	S11	E13	4026	12	17.1	5	SF		2	C		55		
PURP	16	0457	0502	0556	S16	W44		12	12.9	59	SF			C	0502	26	.4	E
PURP	16	0543	0550	0556D	S08	W04		12	15.9	13D	SN			C	0550	65	.7	
LEAR	16	0621	0621	0630	S11	E11	4026	12	17.1	9	SF	C 4.8	3	C		43		
LEAR	16	0724	0727	0758	S02	W12	4025	12	15.4	34	SN		3	C		68		
LEAR	16	0814	0815	0820	S09	E07	4026	12	16.9	6	SF		3	C		28		
GOES	16	0820	0823	0825						5		C 4.5						
GOES	16	0933	0936	0938						5		C 4.5						
GOES	16	0948	0952	1019			4025			31		C 3.7						
LEAR	16	1007	1007	1020D	S10	E05	4026	12	16.8	13D	1B	M 3.4	2	C		309		F
LEAR	16	1009	1011	1020D	S14	W50	4021	12	12.6	11D	SF		2	C		49		
GOES	16	1147	1150	1152						5		C 2.4						
RAMY	16	1418	1425	1451	S10	E04	4026	12	16.9	33	SB	M 1.1	3	C		163		F
HOLL	16	1419E	1420	1449D	S10	E04	4026	12	16.9	30D	SB		1	C		80		F
RAMY	16	1436	1438	1450	S16	W49	4021	12	12.9	14	SN		3	C		33		
RAMY	16	1453	1505	1709	S07	W09	4025	12	15.9	136	2B	X 1.6	3	C		576		FZ
RAMY	16	1457	1458	1459D	S11	E05	4026	12	17.0	2D	SB		3	C		94		
HOLL	16	1459E	1459U	1515	S07	W02	4026	12	16.5	16D	SN		3	C		143		
HOLL	16	1459E	1509	1556D	S06	W10	4025	12	15.9	57D	2B		3	C		820		
HOLL	16	1501	1501	1503D	S06	W10	4025	12	15.9	2D	2B		3	C		571		
RAMY	16	1649	1653	1726	S20	W49	4021	12	13.0	37	SN		3	C		133		
HOLL	16	1652	1653	1707	S19	W49	4021	12	13.0	15	SN		3	C		115		
RAMY	16	1710	1713	1809	S05	W12	4025	12	15.8	59	SF		3	C		87		
HOLL	16	1924	1929	2114	S17	W51	4021	12	12.9	110	1B	M 1.3	3	C		241		ZF
HOLL	16	1927	1928	1934	S08	E01	4026	12	16.9	7	SN		3	C		45		
HOLL	16	2010	2013	2108	S12	E02	4026	12	17.0	58	SN		3	C		82		F K
HOLL	16	2010	2035	2108	S12	E02	4026	12	17.0	58	SN		3	C		90		K

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
HOLL	16	2028	2030	2043	N11	W34	4022	12	14.3	15	SF		3	C			20			
HOLL	16	2204	2211	2228	N11	W34	4022	12	14.4	24	SF		3	C			54		F	
HOLL	16	2211	2212	2230	S16	W53	4021	12	12.9	19	SB	C 3.8	3	C			58		F	
HOLL	16	2303	2313	2338	N10	W35	4022	12	14.3	35	SN		3	C			63		F	
HOLL	16	2320	2320	2331	S05	W26	4024	12	15.0	11	SF		3	C			34		F	
GOES	17	0001	0004	0006						5		C 2.7								
GOES	17	0125	0132	0136						11		C 2.6								
GOES	17	0145	0148	0209			4026			24		M 4.8								
LEAR	17	0153E	0153U	0206D	S11	W03	4026	12	16.9	13D	1B		2	C			403		UF	
GOES	17	0220	0227	0235						15		C 7.2								
PEKG	17	0221	0226	0257	N11	W38		12	14.2	36	SN			C	0226		113	1.5	F	
PEKG	17	0224	0226	0232	S09	W04		12	16.8	8	SF			C	0226		97	1.0	E	
PEKG	17	0400	0404	0455	N11	W39		12	14.2	55	SF			C	0404		92	1.3	EK	
PEKG	17	0400	0426	0455	N11	W40		12	14.2	55	1N			C	0426		160	2.2	F	
LEAR	17	0421	0427	0500	N10	W38	4022	12	14.3	39	SB	C 8.4	3	C			138		F	
MANI	17	0427E	0427U	0433D	N11	W38		12	14.3	6D	SN		1	V			100	1.4		
LEAR	17	0440	0451	0520	S20	W54	4021	12	13.1	40	SN	C 8.7	3	C			71			
PEKG	17	0445	0449	0505	S19	W56		12	12.9	20	1F			C	0449		118	2.2	F	
PEKG	17	0517	0518	0530	S15	W03		12	17.0	13	SN			C	0518		113	1.2	E	
LEAR	17	0518	0521	0547	S15	W01	4026	12	17.1	29	1N		3	C			227		F	
BUCA	17	0732	0734	0815	N12	W40		12	14.3	43	SN			C	0734		54	.7	D	
GOES	17	0806	0814	0824						18		C 4.6								
BUCA	17	0810	0812	0840	S15	W60		12	12.8	30	SN			C	0812		43	.9	D	
YUNN	17	0905	0910	0915	N12	W41		12	14.3	10	SF			P			16	.2	D	
YUNN	17	0910	0925	0930	S07	W14		12	16.3	20	SF			P			16	.2	D	
GOES	17	1002	1004	1018			4021			16		M 1.3								
HOLL	17	1518	1518	1523	S05	W24	4025	12	15.8	5	SN		3	C			28			
HOLL	17	1640	1708	1743	S12	W13	4026	12	16.7	63	SB	M 1.4	3	C			138		UF	
RAMY	17	1643	1707	1738	S11	W12	4026	12	16.8	55	SB		3	C			108		FE	
HOLL	17	1709	1709	1732	N11	W47	4022	12	14.2	23	SN		3	C			25		F	
HOLL	17	1725	1826	1947	S16	W65	4021	12	12.8	142	SF		3	C			38		K	
HOLL	17	1725	1850	1947	S16	W65	4021	12	12.8	142	SN		3	C			103		F K	
GOES	17	1819	1858	2143			4025			204		X10.1								
RAMY	17	1820	1857	2019D	S07	W20	4025	12	16.3	119D	3B		3	C			1613		ZU	
RAMY	17	1848	1850	1855	S12	W74	4017	12	12.2	7	SN		3	C						
RAMY	17	1857	1857	1903	S11	W78	4017	12	11.9	6	SF		3	C			19			
HOLL	17	2027	2030	2043	S08	W14	4026	12	16.8	16	SN		3	C			101		F	
RAMY	17	2028	2031	2041D	S12	W10	4026	12	17.1	13D	SN		3	C			85		F	
HOLL	17	2057	2106	2225	S08	W14	4026	12	16.8	88	1B		3	C			391		K	
HOLL	17	2057	2113	2225	S08	W14	4026	12	16.8	88	2B	M 4.2	3	C			512		UFK	
GOES	17	2144	2153	2220			4026			36		M 4.8								
HOLL	17	2217	2250	2345D	S15	W66	4021	12	12.9	88D	1B	M 5.0	3	C			202		FE	
HOLL	17	2307	2307	2312	S12	W12	4026	12	17.1	5	SN		3	C			31			
PEKG	18	0221	0228	0228D	S12	W19		12	16.7	7D	SF			P	0228		63	.7	E	
PEKG	18	0222	0228	0230	S08	W41		12	15.0	8	SN			P	0228		113	1.6	E	
GOES	18	0222	0228	0231						9		C 4.1								
PEKG	18	0235	0241	0244	S11	W21		12	16.5	9	SN			P	0241		59	.6	D	
LEAR	18	0257E	0324	0343	S11	W18	4026	12	16.8	46D	SN		2	C			115		FH	
PEKG	18	0304	0309	0332	S10	W17		12	16.8	28	SN			P	0309		71	.8	EK	
PEKG	18	0304	0329	0332	S11	W17		12	16.8	28	SN			P	0329		143	1.7	E	
LEAR	18	0351	0353	0355D	N09	W51	4022	12	14.3	4D	SF	C 8.6	2	C			34			
PEKG	18	0351	0359	0406	N10	W51		12	14.3	15	SF			C	0359		34	.6	E	
PEKG	18	0356	0359	0420D	S11	W19		12	16.7	24D	SF			P	0359		59	.6	E	
LEAR	18	0437E	0445U	0456	S10	W20	4026	12	16.7	19D	SF		2	C			31			
LEAR	18	0602	0626	0645	S10	W19	4026	12	16.8	43	SN	C 4.3	2	C			40		F	
PEKG	18	0620	0621	0635	S09	W19		12	16.8	15	SN			P	0621		63	.7	E	
LEAR	18	0620	0627	0646	N10	W52	4022	12	14.4	26	SF		3	C			37		F	
LEAR	18	0648	0650	0658	S18	E71		12	23.7	10	SF		3	C			30			
LEAR	18	0649	0658	0705	S12	W18	4026	12	16.9	16	SN	C 3.3	3	C			58		F	
LEAR	18	0722	0727	0733	S11	W21	4026	12	16.7	11	SN		3	C			70			
LEAR	18	0822	0825	0856	S10	W20	4026	12	16.8	34	1B	X 1.2	3	C			396		ZF	
ISTA	18	0836E		0857	S10	W20		12	16.9	21D	1N								E	
LEAR	18	0941	0955	0956	S18	E68		12	23.6	15	SF		3	C			13			
LEAR	18	0953	0958	1016	N11	W53	4022	12	14.4	23	SN	M 1.0	3	C			87		F	
GOES	18	1137	1142	1149						12		C 2.6								
GOES	18	1234	1245	1247						13		C 2.4								
RAMY	18	1358	1405	1417	S10	W22	4026	12	16.9	19	SF	C 5.0	3	C			47			
HOLL	18	1504	1507	1522	S10	W20	4026	12	17.1	18	2B		2	C			650		UE	
RAMY	18	1504	1508	1545	S11	W22	4026	12	17.0	41	2B	X 1.1	3	C			704		FE	

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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)	
HOLL	20	1802E	1802U	1836	N16	W45		12	17.3	34D	SN		3	C		21		FH
HOLL	20	1938	1953	2014	S07	W64	4025	12	16.0	36	SF		3	C		31		
GOES	20	2137	2142	2147						10		C 2.0						
GOES	20	2224	2228	2230						6		C 2.5						
GOES	20	2338	2342	2346						8		C 3.2						
GOES	21	0209	0215	0222						13		M 2.9						
GOES	21	0421	0425	0428						7		C 2.7						
GOES	21	0458	0512	0537			4033			39		M 3.3						
LEAR	21	0554	0605	0612D	S10	W70	4025	12	16.0	18D	1N		2	C		255		F
LEAR	21	0601	0605U	0648	S11	W66	4026	12	16.3	47	SF		2	C		44		F
GOES	21	0643	0647	0655						12		M 1.1						
GOES	21	1150	1152	1208						18		C 2.8						
HOLL	21	1558	1650	1702	S15	E83	4033	12	28.0	64	SF	C 2.2	3	C				F
GOES	21	1645	1648	1650						5		C 2.3						
RAMY	21	1656	1700	1715	S18	E15		12	22.8	19	SN		3	C		59		F
HOLL	21	1703	1708	1816	S17	E79	4033	12	27.7	73	SF		3	C		26		F K
HOLL	21	1703	1716	1816	S17	E79	4033	12	27.7	73	SN		3	C				F K
GOES	21	1845	1850	1855			4025			10		C 3.0						
HOLL	21	1913	1913	1920	S14	E80	4033	12	27.9	7	SF		3	C				
GOES	21	2033	2139	2155						82		C 5.0						
GOES	21	2123	2139	2140						17		C 4.5						
HOLL	21	2247	2247	2316D	S17	E74	4033	12	27.6	29D	SN		3	C				F
GOES	21	2311	2318	2320						9		C 2.7						
LEAR	22	0128	0135U	0142	S16	E73	4033	12	27.6	14	1N	C 1.8	2	C				F
LEAR	22	0208	0209	0225D	S08	W72	4026	12	16.7	17D	1F	C 3.1	2	C				F
LEAR	22	0218	0222U	0241D	S08	W79	4025	12	16.2	23D	SF		2	C				H
LEAR	22	0312E	0326U	0332	S09	W81	4025	12	16.1	20D	SF	C 2.1	2	C				
LEAR	22	0417	0422	0441	S12	W71	4026	12	16.8	24	SN	C 1.8	3	C		138		FH
LEAR	22	0508	0513	0531	S04	W30	4035	12	20.0	23	SF	C 2.0	3	C		43		
LEAR	22	0631	0636	0647	S09	W82	4025	12	16.1	16	1F	C 3.9	3	C				
ISTA	22	0704		0718	S09	E05		12	22.7	14	1B				0707			U
LEAR	22	0706	0714	0727	S19	E06	4036	12	22.8	21	SN		3	C		88		F
LEAR	22	0826	0833	0857	S09	W82	4025	12	16.2	31	SB	X 2.4	3	C				
ISTA	22	0830E		0850	S09	W90		12	15.6	20D	3B							A
LEAR	22	0940	0946	1005	S19	E03	4036	12	22.6	25	SN	C 7.9	3	C		179		F
GOES	22	1304	1331	1332						28		C 3.6						
GOES	22	1758	1759	1803						5		C 1.7						
LEAR	22	2241	2246	2251	S17	E63	4033	12	27.7	10	SF	C 2.9	3	C		60		
LEAR	22	2346	2346	2350	S20	E76	4033	12	28.8	4	SF	C 2.8	3	C				H
LEAR	23	0435	0440	0448	S10	W90	4026	12	16.4	13	SF	C 1.2	3	C				
LEAR	23	0509	0510	0517	S09	W90	4026	12	16.5	8	SN	C 3.4	3	C				
LEAR	23	0729	0731	0804	S17	E58	4033	12	27.7	35	SN	C 3.4	3	C		103		F K
LEAR	23	0729	0750	0804	S17	E58	4033	12	27.7	35	SN		3	C		51		K
GOES	23	0933	0938	0948						15		C 2.2						
GOES	23	1425	1428	1431						6		C 1.8						
GOES	23	2014	2118	2202			4039			108		C 5.0						
YUNN	24	0101	0126	0127	S18	W19		12	22.6	26	SF			P		32	.4	
YUNN	24	0121	0125	0135	S18	E48		12	27.7	14	SN			C		16	.3	
LEAR	24	0125	0125	0137	S17	E48	4033	12	27.7	12	SN	C 1.9	3	C		55		U
LEAR	24	0241	0245	0251	S18	W18	4036	12	22.7	10	SF		3	C		31		
GOES	24	0242	0245	0257			4033			15		C 1.0						
YUNN	24	0306E	0306U	0324D	S17	W19		12	22.7	18D	SN			P	0306	32	.4	
GOES	24	1008	1016	1027						19		C 3.7						
GOES	24	1306	1317	1321						15		C 1.5						
GOES	24	1739	1742	1745						6		C 1.8						
HOLL	24	1853	1903	1911	S12	E52	4033	12	28.7	18	SF		3	C		28		FS
GOES	24	1912	1914	2031			4033			79		C 7.9						
HOLL	24	2052	2053	2104	S18	W18	4031	12	23.5	12	SN		3	C		96		
GOES	25	0324	0330	0336						12		C 3.6						
PEKG	25	0325E	0330	0345	S18	W22		12	23.5	20D	1N			P	0330	294	3.4	E
GOES	25	0445	0510	0545						60		C 5.0						
GOES	25	0611	0628	0641						30		C 9.6						
PEKG	25	0618E	0628U	0700	S16	E49		12	29.0	42D	1N			P	0628	218	3.5	F
PEKG	25	0711E	0733	0756D	S17	E48		12	28.9	45D	2B			P	0733	484	7.6	FUK
PEKG	25	0711E	0756	0756D	S17	E43		12	28.6	45D	3B			P	0756	1262	18.9	F
ISTA	25	0725E		0810	S17	E45		12	28.7	45D	3B							F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
					Lat	CMD Region						Mo	Day	Time (UT)		Apparent (10 ⁻⁶ Disk)	Corr (Sq eg)
▲	GOES	25	0743	0750		4033	60		X 2.2							
	GOES	25	1656	1700			8		C 1.5							
	GOES	25	1753	1801			13		C 2.8							
	GOES	25	2130	2134			8		C 1.4							
	GOES	25	2201	2204			9		C 2.1							
[	LEAR	26	0011	0013	0035	S11 E20	4033	12 27.5	24	1B		3	C		189	F
	GOES	26	0011	0013	0051		4033		40		C 9.0					
[	MANI	26	0012	0013	0033	S15 E30		12 28.3	21	1N		1	V		175	2.1
[	PALE	26	0017E	0017U	0051D	S11 E19	4033	12 27.4	34D	1N		3	C		425	
[	LEAR	26	0046	0047	0100	S19 E53	4039	12 30.1	14	SN		3	C		45	
[	PALE	26	0046	0047	0051D	S17 E50	4039	12 29.8	5D	SF		3	C		53	
[	LEAR	26	0103	0104	0146	S19 W32	4031	12 23.6	43	SN		3	C		149	K
[	LEAR	26	0103	0121	0146	S19 W32	4031	12 23.6	43	SN C	2.0	3	C		151	F K
	GOES	26	0117	0120	0131		4031		14		C 2.2					
[	LEAR	26	0144	0151	0308	S11 E25	4033	12 28.0	84	2B C	9.8	3	C		654	FE
[	PEKG	26	0150E	0153	0244	S11 E25		12 28.0	54D	1N			P	0153	210	2.4
[	PALE	26	0205E	0215U	0310	S10 E27	4033	12 28.1	65D	1N		3	C		351	F
[	PALE	26	0206	0207	0214	N07 W31	4032	12 23.8	8	SF		3	C		29	
[	LEAR	26	0306	0308	0318	N06 W31	4032	12 23.8	12	SF		3	C		57	F
[	LEAR	26	0909	0911	1007D	S11 E14	4033	12 27.4	58D	SF		3	C		170	K
[	LEAR	26	0909	0937	1007D	S11 E14	4033	12 27.4	58D	1B M	1.1	3	C		287	K
	GOES	26	0952	0956	1001		4033		9		C 3.5					
	GOES	26	1038	1041	1043				5		C 2.5					
	GOES	26	1137	1140	1142				5		C 2.0					
	GOES	26	1141	1201	1222				41		C 5.3					
	GOES	26	1456	1513	1520				24		M 1.4					
	GOES	26	1955	1959	2001				6		C 2.1					
[	PALE	26	2028	2028	2044	S13 E23	4033	12 28.6	16	SN C	1.4	3	C		46	F
[	PALE	26	2037E	2051U	2114	S20 W51	4031	12 23.0	37D	SF		3	C		26	
[	PALE	26	2132	2133	2140	S17 E40	4039	12 29.9	8	SB C	1.1	3	C		38	
[	PALE	26	2148	2157	2218	S20 W44	4031	12 23.5	30	SN C	1.8	3	C		117	
[	HOLL	26	2149	2159	2215	S18 W44	4031	12 23.6	26	SN		3	C		106	
[	PALE	26	2233	2244	2348D	N07 W46	4032	12 23.5	75D	SF		3	C		78	
[	HOLL	26	2234	2241	2254	S16 E24	4033	12 28.8	20	SF C	1.3	3	C		57	
[	PALE	26	2241	2241	2250	S12 E12	4033	12 27.8	9	SF		3	C		38	
[	LEAR	26	2337	2353	0016	S14 E21	4033	12 28.6	39	SF C	2.1	3	C		51	FS
[	LEAR	27	0046	0047	0053	S13 E37	4039	12 29.8	7	SF		3	C		24	
[	PALE	27	0047E	0047U	0057	S13 E37	4039	12 29.8	10D	SF		3	C		34	
[	LEAR	27	0108	0111	0116	S18 E38	4039	12 29.9	8	SN		3	C		37	
[	PALE	27	0109E	0112U	0121D	S18 E38	4039	12 29.9	12D	SF		3	C		30	
[	LEAR	27	0121	0124	0130	S18 W45	4031	12 23.6	9	SF		3	C		34	
[	YUNN	27	0247	0250	0253	N08 W50		12 23.4	6	SN			C		32	.5
[	LEAR	27	0249	0251	0258	N06 W49	4032	12 23.4	9	SF		3	C		80	
[	LEAR	27	0314	0317	0324	S10 E04	4033	12 27.4	10	SN		3	C		47	
[	LEAR	27	0524	0526	0541	S10 E02	4033	12 27.4	17	SB C	3.1	3	C		92	
[	LEAR	27	0534	0546	0559	N08 W47	4032	12 23.7	25	SN		3	C		83	
[	LEAR	27	0755	0759	0835	N08 W48	4032	12 23.7	40	SF		3	C		45	
[	LEAR	27	0755	0811	0835	N08 W48	4032	12 23.7	40	SF		3	C		37	K
[	LEAR	27	0817	0819	0835	S11 E01	4033	12 27.4	18	SF		3	C		31	H
[	LEAR	27	0848	0849	0852	S13 E33	4039	12 29.9	4	SF		3	C		22	
[	LEAR	27	0929	0942	1000	S14 E16	4033	12 28.6	31	SF C	1.5	3	C		58	
	GOES	27	1128	1138	1143				15		C 1.9					
	GOES	27	1148	1151	1153				5		C 1.9					
[	RAMY	27	1427	1428	1531	N08 W52	4032	12 23.7	64	1B C	4.8	3	C		166	
[	RAMY	27	1647	1647	1704	N08 W53	4032	12 23.7	17	SN C	2.5	3	C		70	
[	RAMY	27	1702	1713	1729	S15 E13	4033	12 28.7	27	SF		3	C		38	
[	HOLL	27	1706	1715	1725	S16 E11	4033	12 28.5	19	SF		3	C		38	F
[	RAMY	27	1756	1801	1813	S14 E06	4033	12 28.2	17	SF		3	C		73	
[	HOLL	27	1759	1801	1811	S12 E05	4033	12 28.1	12	SF		3	C		55	
[	HOLL	27	1809	1811	1816	N09 W56	4032	12 23.6	7	SF		3	C		28	F
[	HOLL	27	1821	1823	1839	N09 W55	4032	12 23.6	18	SN C	2.6	3	C		32	
[	HOLL	27	1903	1905	1917	N08 W56	4032	12 23.6	14	SF		3	C		15	F
[	HOLL	27	1920	1926	1938	N10 W55	4032	12 23.7	18	SF		3	C		17	
[	RAMY	27	1948	1948	2006	S12 E04	4033	12 28.1	18	SN		3	C		24	
[	HOLL	27	1948	1948	1953	S12 E04	4033	12 28.1	5	SN		3	C		24	
[	HOLL	27	1953	2009	2045	N09 W56	4032	12 23.6	52	SN		3	C		36	
[	HOLL	27	2020	2022	2036	S12 E04	4033	12 28.1	16	SB		3	C		125	E
[RAMY	27	2021	2022	2052	S12 E04	4033	12 28.1	31	SB C	9.3	3	C		172	
[HOLL	27	2053	2055	2118	N09 W56	4032	12 23.7	25	SF		3	C		27	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Time (UT)	Area Measurement		Remarks
													Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
HOLL	27	2215	2218	2237	S12	W00	4033	12 27.9	22	SN C 2.0	3 C		146		FH
HOLL	27	2259	2304	2318	N08	W72	4038	12 22.6	19	SF	3 C				
GOES	27	2333	2336	2340					7	C 1.4					
LEAR	28	0034	0038	0044	S12	E01	4033	12 28.1	10	SN	3 C		111		H
PEKG	28	0035	0038	0043	S12	E01		12 28.1	8	SN	C	0038	101	1.0	E
YUNN	28	0035	0038	0040	S11	E01		12 28.1	5	SN	C		32	.3	
PEKG	28	0043	0047	0102	S22	E13		12 29.0	19	SN	C	0047	88	1.0	E
YUNN	28	0045	0057	0107	S23	E11		12 28.9	22	SN	P		48	.5	
PEKG	28	0047E	0047	0050	N07	W61		12 23.5	30	SF	P	0047	42	.9	D
PEKG	28	0113	0117	0127D	N05	W71		12 22.7	14D	SF	P	0117	34		D
LEAR	28	0123	0132	0144	N07	W59	4032	12 23.6	21	SF C 2.7	3 C		51		F
PEKG	28	0127E	0127	0147D	N09	W60		12 23.6	20D	SN	P	0127	80	1.7	E
PEKG	28	0340	0342	0347	S12	W01		12 28.1	7	SN	C	0342	84	.9	D
GOES	28	0408	0412	0418					10	C 1.4					
LEAR	28	0505	0505	0516	N09	E79	4041	01 3.1	11	SF	3 C				
LEAR	28	0518	0520	0606	S19	E22	4039	12 29.9	48	SF C 1.5	3 C		52		
PEKG	28	0540E	0540	0557	S20	E24		12 30.1	17D	SF	P	0540	84	1.0	E
LEAR	28	0610	0613	0625	N08	W64	4032	12 23.5	15	SF	3 C		46		
GOES	28	0710	0713	0718					8	C 2.2					
GOES	28	0834	0835	0846					12	C 2.2					
LEAR	28	0845E	0850	0855D	N08	W68	4032	12 23.3	10D	SN C 2.8	3 C		14		
GOES	28	1158	1209	1212					14	C 3.1					
GOES	28	1245	1249	1251					6	C 1.9					
GOES	28	1551	1559	1620			4032		29	M 4.3					
HOLL	28	1604E	1605U	1621D	N06	W73	4032	12 23.2	17D	SN	3 C				
GOES	28	1703	1708	1718					15	C 1.5					
HOLL	28	1946	1958	2013	S19	W15		12 27.7	27	SN	3 C		43		F
PALE	28	2008	2009	2020	N08	W88	4032	12 22.2	12	SB	3 C				
GOES	28	2043	2046	2059					16	C 2.0					
HOLL	28	2251E	2251U	2307D	S08	W23	4033	12 27.2	16D	SN	3 C		45		F
HOLL	28	2304	2314	2340D	S18	W18		12 27.6	36D	SF	3 C		62		F
LEAR	28	2307	2313	2332	S18	W17		12 27.7	25	SF	3 C		64		
LEAR	29	0133	0137	0142	S19	W66	4031	12 24.0	9	SF	3 C		12		
LEAR	29	0137	0140	0202	N05	E70	4041	01 3.3	25	SN C 5.8	3 C		45		F
LEAR	29	0147	0149	0152	S18	W19		12 27.6	5	SF	3 C		32		
LEAR	29	0351	0353	0358	S20	W19	4042	12 27.7	7	SF	3 C		33		FH
GOES	29	0423	0428	0436			4033		13	C 1.1					
LEAR	29	0431	0433	0438	S07	W15	4033	12 28.1	7	SF	3 C		44		F
LEAR	29	0514	0514	0522	S13	W11	4033	12 28.4	8	SF C 1.2	3 C		47		
LEAR	29	0643	0645	0717	S13	W12	4033	12 28.4	34	2B X 1.9	3 C		712		Z
YUNN	29	0644	0647	0705	S13	W13		12 28.3	21	2N	P		563	6.0	
LEAR	29	0737	0742	0754	S10	W28	4033	12 27.2	17	SN	3 C		85		F
PEKG	29	0741	0742	0745	S09	W29		12 27.1	4	SF	P	0742	50	.6	E
LEAR	29	0834	0838	0911	S10	W28	4033	12 27.3	37	SN	3 C		126		K
LEAR	29	0834	0904	0911	S10	W28	4033	12 27.3	37	1N C 2.7	3 C		219		H K
YUNN	29	0835	0837		S10	W29		12 27.2		SN	C		145	1.7	
GOES	29	0857	0903	0905			4033		8	C 3.0					
YUNN	29	0900E	0900	0905	S09	W29		12 27.2	5D	1N	C		241	2.9	
GOES	29	1308	1314	1317					9	C 2.1					
GOES	29	1522	1525	1527					5	C 1.1					
RAMY	29	1717	1727	1727D	S13	W18	4033	12 28.4	10D	SB	3 C		124		
HOLL	29	1724	1728	1729D	S12	W19	4033	12 28.3	5D	SB	3 C		189		
GOES	29	1725	1729	1732					7	C 2.9					
GOES	29	1848	1853	1857					9	C 1.8					
HOLL	29	2008	2008	2040	N08	W90	4032	12 23.1	32	SB	3 C				
HOLL	29	2105	2109	2116	S17	W19	4033	12 28.4	11	SN	3 C		79		
HOLL	29	2142	2147	2151D	S09	W36	4033	12 27.2	9D	SN	3 C		53		
GOES	29	2142	2147	2152			4033		10	C 1.3					
PALE	29	2147E	2147U	2152	S12	W36	4033	12 27.2	5D	SN	3 C		35		
GOES	29	2234	2238	2243					9	C 1.4					
GOES	29	2307	2310	2323					16	C 1.8					
LEAR	29	2347	2349	0010	S09	W39	4033	12 27.1	23	SF C 2.2	3 C		134		FH
LEAR	30	0123	0124	0130	S17	W32	4042	12 27.6	7	SN	3 C		37		
LEAR	30	0140	0147	0252	S13	W22	4033	12 28.4	72	2B M 7.1	3 C		680		ZFK
LEAR	30	0140	0156	0252	S13	W22	4033	12 28.4	72	1B	3 C		428		K
YUNN	30	0140	0158	0238	S13	W23		12 28.3	58	1N	P		402	4.6	
PEKG	30	0141	0145	0208	S13	W22		12 28.4	27	1N	C	0145	294	3.3	F
MANI	30	0142E	0145	0147D	S12	W29		12 27.9	5D	SB	1 V		125	1.5	F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
[YUNN	30	0604E	0606	0612	S09	W41		12	27.2	8D	1N			P		321	4.4	
LEAR	30	0604	0606	0616	S09	W40	4033	12	27.2	12	1F	C 2.3	3	C		280		H
GOES	30	0915	0918	0926						11		C 2.1						
WEND	30	1002	1004	1010	S10	W43		12	27.2	8	SF			C	1004	25	.4	
[GOES	30	1014	1019	1024						10		C 1.8						
WEND	30	1017	1019	1027	N08	E51		01	3.3	10	SN			C	1019	38	.6	E
RAMY	30	1410	1412	1442	S14	W30	4033	12	28.3	32	SB	C 2.2	3	C		71		
GOES	30	1517	1521	1526						9		C 1.1						
[RAMY	30	1739	1857U	1918	S12	W33	4033	12	28.2	99	1B	C 8.4	3	C		230		U
PALE	30	1835E	1846	1928	S11	W34	4033	12	28.2	53D	1B			C		223		K
GOES	30	1841	1846	1903			4033			22		C 9.8						
[PALE	30	1844	1845	1854	S23	E14	4040	12	31.9	10	SF			C		20		
RAMY	30	1856	1900	1911	S27	E16	4040	01	1.0	15	SF			C		45		
[PALE	30	2223	2227	2234D	S12	W36	4033	12	28.2	11D	SB	C 4.7	3	C		85		E
LEAR	30	2246E	2246U	2311	S13	W34	4033	12	28.4	25D	SN			C		69		F
LEAR	30	2258	2258	2308	S18	W39	4042	12	28.0	10	SF			C		23		
LEAR	30	2357	2359	0003	S09	W54	4033	12	26.9	6	SF			C		36		H
LEAR	31	0014	0020	0049	S13	W35	4033	12	28.4	35	1B	C 8.0	3	C		194		F
MANI	31	0025E	0025	0034D	S12	W44		12	27.7	9D	1B		1	V		220	3.2	F
YUNN	31	0028E	0028U	0036	S25	W22		12	29.3	8D	SN			P	0028	16	.2	F
LEAR	31	0243	0245	0249	S10	W55	4033	12	27.0	6	SF		3	C		37		
LEAR	31	0511	0514	0555	S15	W35	4033	12	28.6	44	SN	C 3.1	3	C		109		H
[MANI	31	0514E	0517	0523D	S12	W40		12	28.2	9D	SF		1	V		90	1.2	F
PEKG	31	0514	0518	0545	S15	W36		12	28.5	31	SF			C	0518	67	.9	F
LEAR	31	0752	0755	0823	N09	E39	4041	01	3.3	31	SF	C 1.5	3	C		79		F
LEAR	31	0754	0756	0802	S16	W46	4042	12	27.8	8	SF			C		21		F
LEAR	31	0845	0852	0922	S13	W40	4033	12	28.3	37	SF			C		69		F
LEAR	31	0849	0853	0918	N11	E38	4041	01	3.2	29	SF	C 1.4	3	C		27		F
GOES	31	0930	0933	0935						5		C 1.6						
GOES	31	1217	1224	1230						13		C 1.0						
[PALE	31	1958	2002	2027D	S15	W65	4033	12	26.9	29D	SN	C 1.3	3	C		95		F K
PALE	31	1958	2019	2027D	S15	W65	4033	12	26.9	29D	SF			C		49		K
GOES	31	2055	2055	2059			4033			4		C 1.0						
GOES	31	2222	2230	2236						14		C 1.1						

"Remarks":

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

- O = Observations have been made in the H and K lines of CaII.
- 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.

The 4-digit number appearing under "Remarks" denotes the calcium plage region number assigned by the Space Environment Services Center in Boulder, Colorado.