H - ALPHA SOLAR FLARES

JULY 1986

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Corr (Sq Deg)	Remarks
		01	1201		1244	No Flare Patrol													
		01	1346		1415	No Flare Patrol													
		01	1450		1516	No Flare Patrol													
		01	1548		1558	No Flare Patrol													
		02	2007		2129	No Flare Patrol													
		02	2329		2344	No Flare Patrol													
		03	0000		0002	No Flare Patrol													
0001	KHAR	03	0948E	0950U	1012	N27	W01	4734	07	3.3	24D	SF		2	V	0948			D
		03	2108		2109	No Flare Patrol													
		03	2244		2251	No Flare Patrol													
		04	2056		2102	No Flare Patrol													
0002	KHAR	05	0705	0710	0727	N02	E90	4735	07	12.0	22	SF		2	V	0710	20		DH
0003	KHAR	05	0801	0806	0820	N02	E88	4735	07	11.9	19	SF		2	V	0806	20		DRT
0004		05	0838		0920	N02	E88	4735	07	11.9	42	SF							DHT
	KHAR	05	0838		0854D	N02	E88	4735	07	11.9	16D	SF		2	V	0850			DT
	KHAR	05	0900E		0920	N02	E88	4735	07	11.9	20D	SF		2	V	0908			DHT
0005	KHAR	05	1020	1022	1028	N02	E88	4735	07	12.0	8	SF		2	V	1022			DT
0006	KHAR	05	1045	1048	1105D	N02	E88	4735	07	12.0	20D	SF		2	V	1048	120		DT
		05	1156		1201	No Flare Patrol													
0007		05	17091	17112	1722	N28	W30	4734	07	3.4	13	SF					74		EF
	RAMY	05	1709	1711	1724	N28	W30	4734	07	3.4	15	SF		3	C		105		
	HOLL	05	1710	1713	1719	N28	W30	4734	07	3.4	9	SF		4	C		42		FE
		05	2316		2400	No Flare Patrol													
0008	KHAR	06	0745E	0747U	0800	N27	W40	4734	07	3.2	15D	SF		2	V	0747			EL
0009	KHAR	06	1025		1034	N02	E78	4735	07	12.3	9	SF		2	V	1025			D
0010		06	1045	1050*	1241	N02	E74	4735	07	12.0	116	SN					51		DH
	RAMY	06	1043E	1121	1241	N02	E70	4735	07	11.7	118D	SN		3	C		51		
	KHAR	06	1045	1050	1100D	N02	E78	4735	07	12.3	15D	SN		2	V	1045			DH
0011	RAMY	06	1315	1325	1342	N01	E70	4735	07	11.8	27	SN		3	C		44		
0012	RAMY	06	1847	1905	1935	N01	E69	4735	07	11.9	48	SN		3	C		27		
0013	HOLL	06	1938	1941	1953	N00	E70	4735	07	12.0	15	SN		3	C		25		
0014	HOLL	06	2050	2056	2111	N00	E69	4735	07	12.0	21	SN		3	C		24		
		06	2147		2223	No Flare Patrol													
0015	LEAR	07	0156	0157	0201	N01	E65	4735	07	11.9	5	SF		3	C		18		
0016	HOLL	07	1437	1438	1442	N27	W56	4734	07	3.2	5	SF		3	C		20		
		07	1507		1517	No Flare Patrol													
0017		08	08343	0837	0842	N03	E50	4735	07	12.1	8	SF					21		DFH
	KHAR	08	0834		0841	N03	E50	4735	07	12.1	7	SF		2	V	0834			DH
	LEAR	08	0837	0837	0842	N03	E51	4735	07	12.2	5	SF		3	C		21		F
0018	KHAR	08	1023U	1023U	1038	N03	E49	4735	07	12.1	15U	SF		2	V	1023			D
		08	1422		1443	No Flare Patrol													
0019	HOLL	08	1534	1534	1543	N01	E49	4735	07	12.3	9	SF		3	C		27		

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		08	1744		1748	No Flare Patrol													
		08	1753		1808	No Flare Patrol													
		08	1831		1908	No Flare Patrol													
		08	1916		1925	No Flare Patrol													
		08	1954		2117	No Flare Patrol													
		08	2140		2154	No Flare Patrol													
		08	2207		2255	No Flare Patrol													
		08	2302		2352	No Flare Patrol													
		09	0007		0009	No Flare Patrol													
		09	0021		0030	No Flare Patrol													
		09	1758		1805	No Flare Patrol													
0020	PALE	10	0313	0314	0322	N05	W43	4736	07	6.9	9	SF		2	C		23		
		10	0455		0459	No Flare Patrol													
0021	YUNN	10	0711	0715	0718D	N06	W43	4736	07	7.1	7D	SF			C		32	.5	D
		10	1648		1704	No Flare Patrol													
		10	1759		1804	No Flare Patrol													
0022	HOLL	10	1807	1810	1820	N07	W49	4736	07	7.1	13	SF		3	C		24		
0023		10	18421	18487	1912	N06	W49	4736	07	7.1	30	SF					34		F
	PALE	10	1842	1848	1912	N04	W49	4736	07	7.1	30	SF		3	C		42		F
	HOLL	10	1843	1855	1912	N08	W49	4736	07	7.1	29	SF		3	C		27		
0024	HOLL	10	2006	2011	2014	N07	W49	4736	07	7.2	8	SF		3	C		18		
0025		10	20226	20281	2042	N06	W51	4736	07	7.0	20	SF					49		
	HOLL	10	2022	2029	2039	N07	W50	4736	07	7.1	17	SF		3	C		68		
	PALE	10	2028	2028	2045	N04	W52	4736	07	7.0	17	SF		3	C		30		
		10	2141		2210	No Flare Patrol													
		10	2227		2242	No Flare Patrol													
		10	2308		2344	No Flare Patrol													
0026	LEAR	11	0311	0314	0321	N09	W53	4736	07	7.1	10	SF		3	C		23		F
0027		11	04509	04588	0606	N06	W55	4736	07	7.1	76	SN	C 3.4				79	1.8	EFZ
	LEAR	11	0450	0458	0601	N08	W55	4736	07	7.1	71	SN	C 3.4	3	C		91		ZF
	PALE	11	0451E	0454U	0500D	N04	W55	4736	07	7.1	9D	SN	C 3.4	2	C		40		F
	PEKG	11	0459	0506	0610	N07	W54	4736	07	7.2	71	SN	C 3.4		C	0506	105	1.8	E
		11	1201		1235	No Flare Patrol													
		11	1237		1251	No Flare Patrol													
		11	1253		1345	No Flare Patrol													
		11	1626		1636	No Flare Patrol													
		11	1640		1644	No Flare Patrol													
0028	HOLL	11	1655	1656	1705	N06	W63	4736	07	7.0	10	SF		4	C		29		H
		11	2144		2157	No Flare Patrol													
		11	2227		2238	No Flare Patrol													
0029	LEAR	12	0336	0336	0344	N01	W03	4735	07	11.9	8	SF		3	C		21		F
0030		12	04162	0418	0423	N06	W68	4736	07	7.1	7	SF					27		
	LEAR	12	0416	0418	0421	N07	W65	4736	07	7.3	5	SF		3	C		29		
	PALE	12	0418	0418	0425	N04	W71	4736	07	6.9	7	SF		3	C		25		
0031	URUM	12	0430	0441	0506	S01	W03	4735	07	12.0	36	SN			C		144	1.5	E
0032	URUM	12	0516	0521	0545	N06	W73	4736	07	6.7	29	SN			C		63		C
0033	KHAR	12	0634	0634	0642	N03	W41	4737	07	9.2	8	SF		2	V	0634			D
0034	KHAR	12	0656		0702	N06	W70	4736	07	7.0	6	SF		2	V	0656			DL

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0035	KHAR	12	0928		0933	N03	W42	4737	07	9.2	5	SF		2	V	0928			D
		12	1141		1218	No Flare Patrol													
0036	RAMY	12	1227	1229	1244	S02	W13	4735	07	11.5	17	SN		3	C		32		
0037		12	1945	1946	1951	N07	W70	4736	07	7.6	6	SF					24		
	RAMY	12	1945	1946	1951	N06	W73	4736	07	7.3	6	SF		3	C		22		
	HOLL	12	1945	1946	1951	N08	W68	4736	07	7.7	6	SF		3	C		26		
0038	PALE	13	0346	0355	0358	N08	W68	4736	07	8.0	12	SF		3	C		34		
0039	ABST	13	0532	0536	0550	N05	W85	4736	07	6.9	18	1F		3	C	0536	138		E
0040	ABST	13	0729	0734	0748	N01	W16	4735	07	12.1	19	SF		3	C	0734	131	1.4	E
0041	KHAR	13	0758		0810	N06	W85	4736	07	7.0	12	SF		2	V	0801			D
0042		13	0811	0813	0823	N06	W86	4736	07	6.9	12	SN					32		D
	ATHN	13	0811	0813	0823	N06	W82	4736	07	7.2	12	SN		3	V	0813	32		
	KHAR	13	0812E		0850D	N07	W90	4736	07	6.6	38D	SF		2	V	0812			D
0043		13	09082	0912	1017	N06	W84	4736	07	7.1	69	SN					48		
	KHAR	13	0908		0936D	N06	W85	4736	07	7.0	28D	SN		2	V	0920			
	ATHN	13	0910	0912	1017	N06	W83	4736	07	7.2	67	SN		3	V	0912	48		
0044	RAMY	13	1129	1131	1139	N06	W81	4736	07	7.4	10	SF		3	C		27		
		13	2301		2338	No Flare Patrol													
0045	KHAR	14	0735	0735U	0743	S01	W34	4735	07	11.8	8	SF		2	V	0735			DH
		14	1331		1335	No Flare Patrol													
		14	1414		1418	No Flare Patrol													
		14	1838		1851	No Flare Patrol													
		14	1956		2157	No Flare Patrol													
0046	KANZ	15	1041	1045	1052	N10	E77	4738	07	21.2	11	SB		2					
		15	1756		1822	No Flare Patrol													
		15	1917		1920	No Flare Patrol													
		15	1944		2021	No Flare Patrol													
		15	2139		2204	No Flare Patrol													
		16	0104		0150	No Flare Patrol													
		16	0211		0223	No Flare Patrol													
		16	0227		0328	No Flare Patrol													
		16	2209		2239	No Flare Patrol													
		16	2301		2304	No Flare Patrol													
		17	2009		2011	No Flare Patrol													
		17	2110		2123	No Flare Patrol													
		17	2144		2231	No Flare Patrol													
		17	2301		2308	No Flare Patrol													
		17	2324		2326	No Flare Patrol													
		18	1132		1155	No Flare Patrol													
		18	1255		1319	No Flare Patrol													
		18	2225		2248	No Flare Patrol													
0047		19	04593	05004	0508	N06	E26	4738	07	21.1	9	SN					68	1.3	EF
	LEAR	19	0459	0500	0508	N06	E26	4738	07	21.1	9	SF		3	C		25		F
	ABST	19	0502	0504	0518U	N06	E27	4738	07	21.2	16U	SN		3	P	0504	111	1.3	E
		19	1101		1137	No Flare Patrol													
		19	2212		2331	No Flare Patrol													
		20	0210		0216	No Flare Patrol													
0048	RAMY	20	1138	1140	1146	N09	E13	4738	07	21.5	8	SN		3	C		50		
		20	1939		1943	No Flare Patrol													

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		20	1953		2033	No Flare Patrol														
		20	2055		2154	No Flare Patrol														
		20	2232		2323	No Flare Patrol														
		21	0326		0332	No Flare Patrol														
		21	0337		0339	No Flare Patrol														
		21	0541		0545	No Flare Patrol														
		21	1341		1403	No Flare Patrol														
		21	1530		1539	No Flare Patrol														
		21	1549		1606	No Flare Patrol														
		21	2117		2220	No Flare Patrol														
		21	2314		2400	No Flare Patrol														
		22	0000		0007	No Flare Patrol														
		22	0211		0214	No Flare Patrol														
		22	0216		0237	No Flare Patrol														
		22	0320		0335	No Flare Patrol														
		22	0343		0346	No Flare Patrol														
		22	2058		2108	No Flare Patrol														
		22	2145		2331	No Flare Patrol														
		23	0410		0413	No Flare Patrol														
		24	1917		1925	No Flare Patrol														
		24	1954		2259	No Flare Patrol														
		25	1724		1819	No Flare Patrol														
0049		28	1620*	1637	1647	N08	E71	4741	08	3.0	27	SN						50		
	RAMY	28	1620	1637	1648	N08	E71	4741	08	3.0	28	SN		3	C			62		
	HOLL	28	1634	1637	1646	N07	E71	4741	08	3.0	12	SN		3	C			37		
0050	RAMY	28	1853	1856	1857	N07	E69	4741	08	2.9	4	SF		3	C			34		
0051	HOLL	28	1940	1941	1948	N10	E67	4741	08	2.8	8	SF		3	C			12		
0052	HOLL	28	2111	2112	2124	N10	E66	4741	08	2.8	13	SF		3	C			14		
0053		28	2139*	2139*	2219	N10	E67	4741	08	2.9	40	SN						32		
	PALE	28	2139	2139	2146	N10	E66	4741	08	2.9	7	SF		3	C			21		
	HOLL	28	2140	2140	2240D	N10	E66	4741	08	2.9	60D	SN		3	C			37		
	RAMY	28	2140E	2147	2204D	N10	E66	4741	08	2.9	24D	SN		3	C			45		
	PALE	28	2235	2236	2252	N08	E69	4741	08	3.1	17	SF		3	C			23		
0054		28	22544	22562	2302	N08	E68	4741	08	3.0	8	SF						28		F
	HOLL	28	2254	2256	2332D	N10	E66	4741	08	2.9	38D	SF		3	C			35		F
	PALE	28	2258	2258	2302	N07	E70	4741	08	3.2	4	SF		3	C			22		
0055	PALE	29	0057	0108	0110	N10	E66	4741	08	3.0	13	SF		3	C			19		
0056	LEAR	29	0457	0457	0500	N09	E65	4741	08	3.1	3	SF		3	C			18		
0057		29	05362	05382	0542	N07	E64	4741	08	3.0	6	SN						32	.7	
	ATHN	29	0536	0538	0542	N05	E63	4741	08	2.9	6	SN		3	V		0538	32	.7	
	LEAR	29	0538	0540	0543	N09	E65	4741	08	3.1	5	SN		3	C			33		
0058		29	0652	0655	0702	N06	E64	4741	08	3.1	10	SF						70	.6	E
	HTPR	29	0634E		0704	N06	E62	4741	08	2.9	30D	SF			C		0655	30	.6	E
	ABST	29	0652	0655	0659	N07	E65	4741	08	3.1	7	SF		3	C		0655	111		E
0059		29	07151	07203	0729	N08	E62	4741	08	2.9	14	SN						42	1.0	EH
	HTPR	29	0715	0721	0730	N06	E62	4741	08	2.9	15	SB			C		0721	50	1.0	E
	KANZ	29	0716	0720	0728	N08	E61	4741	08	2.9	12	SF		3						
	LEAR	29	0716	0723	0729	N09	E62	4741	08	2.9	13	SF		3	C			33		H
0060	HTPR	29	0815	0817	0824	N09	E64	4741	08	3.1	9	SF			C		0817	10	.2	E
0061		29	08444	08511	0857	N10	E56	4741	08	2.6	13	SN						30	.6	E
	HTPR	29	0844	0851	0858	N10	E57	4741	08	2.6	14	SB			C		0851	30	.6	E
	KANZ	29	0848	0852	0856	N11	E54	4741	08	2.4	8	SF		3						
0062	HTPR	29	0934	0936	0956	N06	E61	4741	08	3.0	22	SN			C		0936	20	.4	

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0063	HTPR	29	1200	1201	1215	N09	E61	4741	08	3.1	15	SB			C	1201	30	.6	E
0064		29	1250*	1309*	1345	N06	E60	4741	08	3.0	55	SF					20	.4	E
	HTPR	29	1250	1309	1345	N06	E59	4741	08	2.9	55	SF			C	1309	20	.4	E
	HTPR	29	1325	1333	1350D	N07	E61	4741	08	3.1	25D	SF			C	1333	20	.4	E
0065	HOLL	29	2209	2210	2213	N07	E53	4741	08	2.9	4	SF		3	C		27		
0066		29	2338	2338	2349	N08	E56	4741	08	3.2	11	SN					47		F
	HOLL	29	2338	2338	2349	N07	E55	4741	08	3.1	11	SN		3	C		47		F
	PALE	29	2338E	2339U	2346D	N09	E56	4741	08	3.2	8D	SN		2	C		47		
0067	HOLL	30	0042	0043	0051	N08	E54	4741	08	3.1	9	SN		3	C		27		
0068	HTPR	30	1319	1323	1340	N06	E57	4741	08	3.8	21	SF			C	1323	10	.2	
0069	HTPR	30	1649	1652	1659	N06	E55	4741	08	3.8	10	SB			C	1652	20	.4	
0070	HTPR	31	1117E		1140	N06	E47		08	4.0	23D	SN			C	1117	10	.1	
		31	1521		1526	No Flare Patrol													

"Remarks"

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