Hα SOLAR FLARES

JULY 1997

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		01	0137		0143	No Flare Patrol													
		01	0209		0225	No Flare Patrol													
		02	0416		0419	No Flare Patrol													
		02	1756		1816	No Flare Patrol													
0001	KANZ	03	1712	1716	1728	S32	E21	8059	07	5.4	16	SF		2	C				
		04	0032		0039	No Flare Patrol													
		04	0101		0112	No Flare Patrol													
		04	0132		0141	No Flare Patrol													
		04	0156		0215	No Flare Patrol													
		04	0233		0309	No Flare Patrol													
		04	2249		2325	No Flare Patrol													
		05	1020		1048	No Flare Patrol													
0002	KANZ	09	0748E	0759	0819	S30	W57	8059	07	4.8	31D	SF		2	C				
		09	2026		2040	No Flare Patrol													
		09	2102		2322	No Flare Patrol													
		09	2346		2400	No Flare Patrol													
		10	0000		0110	No Flare Patrol													
		10	1853		1902	No Flare Patrol													
		10	2004		2334	No Flare Patrol													
		11	1004		1008	No Flare Patrol													
		11	2017		2021	No Flare Patrol													
		11	2143		2208	No Flare Patrol													
		11	2228		2253	No Flare Patrol													
0003	MEUD	13	0859	0900	0905	S30	W90		07	6.3	6				C				8
		13	2038		2055	No Flare Patrol													
		13	2110		2135	No Flare Patrol													
		13	2316		2323	No Flare Patrol													
		14	0058		0415	No Flare Patrol													
		14	2224		2333	No Flare Patrol													
		15	2244		2255	No Flare Patrol													
		16	2048		2323	No Flare Patrol													
		17	0000		0001	No Flare Patrol													
		17	0116		0423	No Flare Patrol													
0004	MEUD	17	0740	0800	0812	N25	E80	8062	07	23.5	32				C				1
		17	2156		2207	No Flare Patrol													
		17	2224		2239	No Flare Patrol													
		18	0144		0221	No Flare Patrol													
		18	1018		1035	No Flare Patrol													
		18	1316		1326	No Flare Patrol													
		18	2014		2036	No Flare Patrol													
		19	1858		1932	No Flare Patrol													
		19	2201		2211	No Flare Patrol													
0005	KANZ	20	0608E	0608U	0639	S34	W78		07	14.0	31D	SF		2	C				
		20	2111		2211	No Flare Patrol													
		20	2228		2319	No Flare Patrol													
		21	1744		1806	No Flare Patrol													
		21	1900		1930	No Flare Patrol													
		21	2005		2106	No Flare Patrol													
		21	2144		2157	No Flare Patrol													
		21	2204		2212	No Flare Patrol													
		21	2241		2400	No Flare Patrol													
		22	0000		0148	No Flare Patrol													
		22	0244		0456	No Flare Patrol													
0006	KANZ	22	1013E	1013U	1017D	N22	E85	8064	07	28.9	4D	SF		2	C				
		22	2030		2243	No Flare Patrol													
		23	0153		0203	No Flare Patrol													
		23	0210		0220	No Flare Patrol													
		23	0320		0333	No Flare Patrol													

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		23	0357		0436	No Flare Patrol												
		23	2033		2101	No Flare Patrol												
		24	0351		0400	No Flare Patrol												
0007	SVTO	24	0606	0612	0615	N27	W13	8062	07 23.2	9	SF		3	E		35		
0008		24	06562	06566	0711	N27	W12	8062	07 23.3	15	SF	B 2.7				18		F
	LEAR	24	0656	0656	0701	N26	W09	8062	07 23.6	5	SF	B 2.7	3	E		13		
	SVTO	24	0656	0657	0714	N27	W14	8062	07 23.2	18	SF		3	E		22		F
	KANZ	24	0658	0702	0718	N27	W12	8062	07 23.3	20	SF		2	C				
		24	1055		1103	No Flare Patrol												
0009		24	13002	1304	1327	N16	W38	8065	07 21.6	27	SF	B 9.1				24		F
	RAMY	24	1300	1304	1327	N17	W37	8065	07 21.7	27	SF	B 9.1	3	E		23		F
	SVTO	24	1302	1306U	1328D	N16	W38	8065	07 21.7	26D	SF	B 9.1	3	E		25		
		24	2237		2325	No Flare Patrol												
0010	LEAR	25	0417	0417	0420	N20	W43	8065	07 21.9	3	SF		3	E		13		
0011	LEAR	25	0512	0516	0520	N20	W43	8065	07 21.9	8	SF		3	E		18		
0012	LEAR	25	0529	0536	0600	N20	W44	8065	07 21.9	31	SF		3	E		36		
0013	LEAR	25	0601	0602	0610	N20	W44	8065	07 21.9	9	SF		3	E		15		
		25	1010		1031	No Flare Patrol												
0014	RAMY	25	1040E	1040U	1102D	N23	E80	8066	07 31.6	22D	SF	B 5.2	1	E		64		
0015		25	15071	15141	1520	N27	W33	8062	07 23.0	13	SF					15		FH
	RAMY	25	1507	1514	1525D	N28	W32	8062	07 23.1	18D	SF		3	E		22		
	HOLL	25	1507	1515	1520	N27	W33	8062	07 23.0	13	SF		3	E		10		FH
	SVTO	25	1508	1509U	1524D	N27	W33	8062	07 23.0	16D	SF		3	E		13		F
0016		25	1538	1538	1543	N17	W51	8065	07 21.8	5	SF	B 9.1				11		H
	RAMY	25	1537E	1537U	1544D	N17	W51	8065	07 21.8	7D	SF	B 9.1	3	E		12		
	HOLL	25	1538	1538	1543	N17	W51	8065	07 21.8	5	SF	B 9.1	3	E		10		H
0017		25	18492	18512	1855	N23	E71	8066	07 31.2	6	SF					20		
	RAMY	25	1849	1853	1856	N22	E74	8066	07 31.5	7	SF		3	E		24		
	HOLL	25	1851	1851	1854	N24	E68	8066	07 31.0	3	SF		3	E		17		
0018		25	1854	18561	1906	N16	W53	8065	07 21.8	12	SF					22		
	RAMY	25	1854	1856	1909	N17	W52	8065	07 21.8	15	SF		3	E		26		
	HOLL	25	1854	1857	1902	N16	W54	8065	07 21.7	8	SF		3	E		18		
0019	HOLL	25	2011	2028	2115	N16	W54	8065	07 21.7	64	SF		3	E		78		H
		25	2308		2332	No Flare Patrol												
0020	LEAR	26	0016	0016	0019	N22	W57	8065	07 21.6	3	SF	B 4.3	3	E		12		
		26	2127		2318	No Flare Patrol												
0021	LEAR	27	0330	0332	0342	N32	W48	8062	07 23.3	12	SF	B 9.5	3	E		48		
0022		27	08132	0815	0822	N29	W54	8062	07 23.1	9	SF	B 2.7				27		H
	SVTO	27	0813	0815	0823	N26	W56	8062	07 23.0	10	SF	B 2.7	3	E		35		H
	LEAR	27	0814	0815	0821	N32	W52	8062	07 23.2	7	SF		3	E		19		H
	KANZ	27	0815	0815	0823	N28	W53	8062	07 23.2	8	SF		2	C				
0023	RAMY	27	1830	1833	1838	N24	E50	8066	07 31.6	8	SF	B 2.2	3	E		22		
		27	2012		2022	No Flare Patrol												
		27	2127		2333	No Flare Patrol												
		28	1800		1846	No Flare Patrol												
		28	1852		1924	No Flare Patrol												
		28	1940		2107	No Flare Patrol												

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		28	2113		2123	No Flare Patrol												
		28	2143		2208	No Flare Patrol												
		28	2212		2325	No Flare Patrol												
0024	SVTO	29	0539	0544	0553	N28	E29	8066	07 31.5	14	SF		3	E		24		
0025		29	07205	07291	0739	N26	E28	8066	07 31.5	19	SF	B 4.0				28	0.3	
	SVTO	29	0720	0730	0741	N27	E28	8066	07 31.5	21	SF	B 4.0	3	E		27		
	MEUD	29	0725	0729	0737	N25	E28	8066	07 31.5	12	SF			C	0729	30	0.3	
0026		29	13193	13231	1335	N26	E26	8066	07 31.6	16	SF	B 5.1				54	0.3	FH
	MEUD	29	1319	1324	1331	N25	E28	8066	07 31.7	12	SF			C	1324	30	0.3	
	KANZ	29	1321E	1321U	1337D	N25	E27	8066	07 31.6	16D	SF		2	C				
	RAMY	29	1321	1323	1333	N25	E26	8066	07 31.6	12	SF	B 5.1	3	E		53		FH
	SVTO	29	1322	1324	1340	N27	E25	8066	07 31.5	18	SF	B 5.1	3	E		80		H
		29	1819		1851	No Flare Patrol												
		29	1908		1935	No Flare Patrol												
		29	2023		2400	No Flare Patrol												
		30	0000		0115	No Flare Patrol												
		30	1911		1924	No Flare Patrol												
		30	2006		2400	No Flare Patrol												
		31	0000		0421	No Flare Patrol												
		31	1423		1426	No Flare Patrol												
		31	1757		1854	No Flare Patrol												
		31	2118		2229	No Flare Patrol												
		31	2302		2400	No Flare Patrol												

"Remarks"

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

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