Hα SOLAR FLARES

NOVEMBER 2003

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
0001	LEAR	01	0127	0128	0137	N13	W47	10488	10	28.6	10	SF		3	E		23		F
0002	LEAR	01	0419	0422	0425	S17	W40	10486	10	29.2	6	SF		3	E		54		FH
0003	LEAR	01	0457	0457	0500	N09	W47	10488	10	28.8	3	SF		3	E		28		F
0004	LEAR	01	0502	0502	0508	S14	W33	10486	10	29.8	6	SF		3	E		39		F
0005	LEAR	01	0518	0530	0546	S14	W38	10486	10	29.4	28	SF		3	E		36		F
0006	LEAR	01	0808	0817	0826	S13	W41	10486	10	29.3	18	SF		3	E		26		F
		01	0955		1021	No Flare Patrol													
		01	1041		1339	No Flare Patrol													
		01	1512		1521	No Flare Patrol													
0007	HOLL	01	1552	1554	1609	S16	W45	10486	10	29.3	17	SF		3	E		28		F
0008	HOLL	01	1648	1717	1737	N08	W49	10488	10	29.1	49	SF		3	E		25		
0009	HOLL	01	1738	1750	1808	N09	W50	10488	10	29.1	30	SF		3	E		82		F
0010	HOLL	01	1915	1915	1920	N06	W55	10488	10	28.8	5	SF		3	E		13		
0011	HOLL	01	2228	2234	2312	S12	W60	10486	10	28.5	44	1N		3	E		203		FU
0012	LEAR	01	2236E	2248U	2310D	S13	W59	10486	10	28.6	34D	SF		1	E		79		FU
		02	0004		0224	No Flare Patrol													
		02	0302		0615	No Flare Patrol													
		02	0637		0757	No Flare Patrol													
0013	LEAR	02	0718E	0800U	0856D	S17	W55	10486	10	29.2	98D	SF		2	E		48		F
		02	0812		1340	No Flare Patrol													
0014	HOLL	02	1539	1612	1642	S14	W55	10486	10	29.6	63	SF		3	E		37		F
0015	HOLL	02	1704	1717	1954	S14	W56	10486	10	29.6	170	2B		3	E		365		UZ
0016	HOLL	02	1716	1717	1719	N06	W62	10488	10	29.2	3	SF		3	E		18		
0017	HOLL	02	1735	1736	1741	N08	W69	10488	10	28.6	6	SF		3	E		15		
0018	HOLL	02	2022	2025	2032	N08	W63	10488	10	29.2	10	SF		3	E		68		
0019	HOLL	02	2026	2026	2033	S19	W53	10486	10	29.9	7	SF		3	E		17		
0020	HOLL	02	2034	2037	2039	S20	W53	10486	10	29.9	5	SF		3	E		13		
0021	LEAR	03	0029	0029	0033	S20	W63	10486	10	29.3	4	SF		3	E		22		
0022	LEAR	03	0106	0131	0237	N10	W83	10488	10	27.9	91	2B		3	E		262		EF
0023	LEAR	03	0450	0452	0500	S21	W70	10486	10	28.9	10	SF		3	E		44		F
0024	LEAR	03	0537	0538	0541	S21	W71	10486	10	28.9	4	SF		3	E		38		
0025	LEAR	03	0948	0949	1006D	N08	W77	10488	10	28.7	18D	2F		2	E		269		F
		03	0957		1020	No Flare Patrol													
0026	SVTO	03	1021E	1053	1109	N09	W79	10488	10	28.6	48D	SF		3	E		46		F
0027	HOLL	03	1530	1530	1543	S15	W79	10486	10	28.8	13	SF		3	E		25		
0028	HOLL	03	1544	1547	1554	S15	W79	10486	10	28.8	10	SF		3	E		22		
		03	1811		1844	No Flare Patrol													
		03	1915		2249	No Flare Patrol													

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		04	0508		0604	No Flare Patrol													
		04	0957		1007	No Flare Patrol													
		04	1029		1050	No Flare Patrol													
0029	HOLL	04	1932	1957	2049	S19	W83	10486	10	29.6	77	3B		3	E		857		FZ
0030	HOLL	04	2049	2049	2054	S18	W81	10486	10	29.8	5	SF		3	E		20		
0031	LEAR	05	0238	0241	0250	S19	W89	10486	10	29.4	12	SF		3	E		95		Y
		05	0957		1010	No Flare Patrol													
		05	1023		1029	No Flare Patrol													
0032	SVTO	05	1051	1051	1058	S16	W90	10486	10	29.7	7	SF		3	E		42		
		05	1520		1557	No Flare Patrol													
		06	0956		1012	No Flare Patrol													
		06	1220		1342	No Flare Patrol													
		06	1501		1739	No Flare Patrol													
		07	0134		0447	No Flare Patrol													
		07	0956		1124	No Flare Patrol													
		07	1209		1245	No Flare Patrol													
		08	1202		1210	No Flare Patrol													
		09	1026		1126	No Flare Patrol													
		09	1138		1223	No Flare Patrol													
		09	1229		1309	No Flare Patrol													
		09	1321		1414	No Flare Patrol													
		09	1418		1423	No Flare Patrol													
		10	0148		0216	No Flare Patrol													
		10	1859		1946	No Flare Patrol													
0033	HOLL	10	2013E	2015U	2018	S10	W38	10500	11	8.0	5D	SF		3	E		28		
		10	2034		2042	No Flare Patrol													
		10	2140		2207	No Flare Patrol													
0034	LEAR	10	2317	2317	2321	N00	W51	10498	11	7.2	4	SF		3	E		27		
0035	SVTO	11	1335	1347	1426	S03	W61	10498	11	7.0	51	SF		3	E		82		FH
		11	1506		1958	No Flare Patrol													
		11	2009		2235	No Flare Patrol													
		11	2317		2331	No Flare Patrol													
		12	0048		2400	No Flare Patrol													
		13	0000		0449	No Flare Patrol													
		13	1407		2227	No Flare Patrol													
		14	0209		0328	No Flare Patrol													
		14	0652		0718	No Flare Patrol													
		14	0723		0750	No Flare Patrol													
		14	1516		2235	No Flare Patrol													
		15	0527		0556	No Flare Patrol													
		15	1004		1411	No Flare Patrol													
		15	1432		1456	No Flare Patrol													
		15	1500		1841	No Flare Patrol													
0036	HOLL	15	1858	1909	1924	N02	E38	10501	11	18.6	26	SF		3	E		41		F
		15	2353		2400	No Flare Patrol													
		16	0000		0102	No Flare Patrol													
		16	0112		0128	No Flare Patrol													
		16	0142		0227	No Flare Patrol													
0037	SVTO	16	1018E	1020U	1034	N01	E44	10501	11	19.7	16D	SF		3	E		20		
		16	1218		1225	No Flare Patrol													
		16	1331		1337	No Flare Patrol													
		16	1448		1523	No Flare Patrol													
0038	HOLL	16	1538	1539	1546	N04	E22	10502	11	18.3	8	SF		3	E		23		FH

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0039	HOLL	16	1811	1814	1838	N01	E39	10501	11	19.7	27	SF		3	E		62		F
		16	2326		2339	No Flare Patrol													
		17	0248		0254	No Flare Patrol													
		17	0402		0411	No Flare Patrol													
		17	0452		0502	No Flare Patrol													
		17	0636		0708	No Flare Patrol													
0040	LEAR	17	0859	0903	1004D	S01	E33	10501	11	19.8	65D	1N		3	E		185		FH
0041	SVTO	17	0901E	0915U	1047D	N00	E31	10501	11	19.7	106D	1F		2	E		160		FH
		17	1005		1017	No Flare Patrol													
		17	1022		1044	No Flare Patrol													
		17	1048		1211	No Flare Patrol													
		17	1229		1310	No Flare Patrol													
		17	1316		1352	No Flare Patrol													
		17	1503		1619	No Flare Patrol													
		17	2226		2242	No Flare Patrol													
		17	2351		2400	No Flare Patrol													
		18	0000		0007	No Flare Patrol													
		18	0046		0204	No Flare Patrol													
		18	0422		0515	No Flare Patrol													
		18	0606		0657	No Flare Patrol													
0042		18	0716*	0754	0928	N00	E18	10501	11	19.6	132	2N					247		FHU
	LEAR	18	0716	0754	0955	N00	E18	10501	11	19.6	159	2N		3	E		270		UF
	SVTO	18	0729	0748U	0902	N00	E19	10501	11	19.7	93	1F		2	E		224		FH
		18	1005		1353	No Flare Patrol													
		18	1507		1550	No Flare Patrol													
0043	HOLL	18	2148	2148	2151	N10	E90	10507	11	25.7	3	SF		3	E		13		
0044	HOLL	18	2311	2313	2320	S02	E10	10501	11	19.7	9	SF		3	E		20		F
0045	LEAR	19	0358	0402	0419	N01	E06	10501	11	19.6	21	1N		2	E		153		EF
		19	0501		0823	No Flare Patrol													
0046	SVTO	19	0819E	0819U	0902	N03	E01	10501	11	19.4	43D	1F		3	E		195		FU
		19	0849		0853	No Flare Patrol													
		19	0925		0942	No Flare Patrol													
		19	1005		1318	No Flare Patrol													
		19	1330		1356	No Flare Patrol													
0047	HOLL	19	1447	1512	1611	N03	W03	10501	11	19.4	84	SF		3	E		62		
		19	1710		1750	No Flare Patrol													
		20	0000		0434	No Flare Patrol													
0048	LEAR	20	0148	0152	0238	N03	W08	10501	11	19.5	50	1N		3	E		110		F
		20	0437		0447	No Flare Patrol													
0049	LEAR	20	0448E	0449U	0452	S17	E73	10508	11	25.7	4D	SF		3	E		17		F
0050	LEAR	20	0727	0728	0735	N03	W12	10501	11	19.4	8	SF		3	E		97		F
0051	LEAR	20	0738	0740	0836	N01	W08	10501	11	19.7	58	2B		3	E		371		FH
		20	1006		1355	No Flare Patrol													
0052	HOLL	20	1437	1440	1457	N09	E59	10507	11	25.0	20	SF		3	E		26		
		20	1541		1616	No Flare Patrol													
		20	1954		2036	No Flare Patrol													

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0053	LEAR	20	2346	2354	2431	N02	W17	10501	11	19.7	45	2B		3	E		279		F
0054	LEAR	21	0436	0436	0446	N12	E46	10507	11	24.6	10	SF		3	E		11		
0055	LEAR	21	0521	0528	0548	N13	E45	10507	11	24.6	27	SF		4	E		45		FH
0056	LEAR	21	0940	0944	0948	S23	E36	10506	11	24.2	8	SF		3	E		15		
		21	1006		1357	No Flare Patrol													
		21	1455		1517	No Flare Patrol													
		21	1524		1529	No Flare Patrol													
		21	1541		1557	No Flare Patrol													
0057	LEAR	22	0145	0150	0156	N05	W31	10501	11	19.7	11	SF		3	E		18		F
0058	LEAR	22	0526	0526	0528	N03	W37	10501	11	19.5	2	SF		3	E		14		F
		22	1006		1121	No Flare Patrol													
		22	1143		1405	No Flare Patrol													
0059	HOLL	22	1836	1837	1839	N07	E26	10507	11	24.7	3	SF		3	E		23		
		22	1957		2239	No Flare Patrol													
		23	0533		0656	No Flare Patrol													
0060	LEAR	23	0716	0717	0721	S15	E26	10508	11	25.3	5	SF		3	E		13		F
0061	SVTO	23	0856E	0857U	0908	N00	W51	10501	11	19.6	12D	SF		3	E		16		
		23	1023		1036	No Flare Patrol													
		23	1125		1137	No Flare Patrol													
0062	HOLL	23	1602	1602	1610	S21	E12	10506	11	24.6	8	SF		3	E		27		F
0063	LEAR	23	2341	2342	2357	S13	E12	10508	11	24.9	16	SF		3	E		20		F
0064	LEAR	24	0046	0048	0051	S19	E14	10508	11	25.1	5	SF		2	E		26		F
		24	1009		1104	No Flare Patrol													
		24	1120		1132	No Flare Patrol													
		24	1141		1358	No Flare Patrol													
0065	HOLL	24	1852	1852	1900	S08	E59	10509	11	29.2	8	SF		3	E		34		
0066	LEAR	25	0558	0600	0610	S14	W05	10508	11	24.9	12	SF		3	E		52		F
		25	1101		1717	No Flare Patrol													
		25	1755		2154	No Flare Patrol													
		26	1006		1359	No Flare Patrol													
		26	1424		1429	No Flare Patrol													
0067	HOLL	26	1617	1618	1625	S13	W14	10508	11	25.6	8	SF		3	E		38		F
0068	HOLL	26	1714	1716	1718	S19	W18	10508	11	25.3	4	SF		3	E		16		
		26	2103		2113	No Flare Patrol													
0069	LEAR	27	0026	0029	0036	S12	E26	10509	11	29.0	10	SF		3	E		72		
0070	LEAR	27	0636	0646	0651	S15	W23	10508	11	25.5	15	SF		3	E		39		
0071	LEAR	27	0803	0812	0910	S14	W27	10508	11	25.3	67	SF		3	E		96		F
0072	SVTO	27	0808E	0826	0859	S13	W30	10508	11	25.1	51D	1F		3	E		144		FH
0073	LEAR	27	0834	0834	0843	S14	W37	10514	11	24.6	9	SF		3	E		10		F
		27	0929		1135	No Flare Patrol													
		27	1146		1158	No Flare Patrol													
		27	1215		1222	No Flare Patrol													

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		27	1326		1359	No Flare Patrol														
0074	HOLL	27	1841	1844	1854	S14	W34	10508	11	25.2	13	SF			3	E		33		F
0075	LEAR	28	0146	0147	0156	S14	W36	10508	11	25.3	10	SF			3	E		16		F
		28	1011		1052	No Flare Patrol														
		28	1158		1208	No Flare Patrol														
		28	1219		1337	No Flare Patrol														
		28	1350		1400	No Flare Patrol														
		28	1735		1753	No Flare Patrol														
		28	1801		1809	No Flare Patrol														
		28	1953		2006	No Flare Patrol														
		28	2019		2059	No Flare Patrol														
		28	2203		2207	No Flare Patrol														
0076	LEAR	29	0330	0331U	0338	S20	E05	10510	11	29.5	8	SF			3	E		21		FH
		29	1019		1300	No Flare Patrol														
0077	HOLL	29	1801	1803	1821	S23	E02	10510	11	29.9	20	SF			3	E		31		F
0078	HOLL	29	2106	2107	2119	S25	E00	10510	11	29.9	13	1F			3	E		102		F
		30	1013		1206	No Flare Patrol														
		30	1212		1401	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