



H $\alpha$  SOLAR FLARES

5  
Aug 03

AUGUST 2003

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0026	KANZ	04	0919	0923	0927	S08	W24	10421	08	2.6	8	SF	2	E					
		05	0121		0134	No Flare Patrol													
0027		05	09084	09142	0928	S06	W34	10421	08	2.8	20	SF					48		F
	KANZ	05	0908	0914	0928	S06	W33	10421	08	2.9	20	SF	2	E					
	SVTO	05	0912	0916	0927	S05	W34	10421	08	2.8	15	SF	3	E			48		F
0028	SVTO	05	1246	1249	1254	S16	E33	10424	08	8.0	8	SN	3	E			97		Z
0029	HOLL	05	1951	1951	1959	S15	E29	10424	08	8.0	8	SF	3	E			13		F
		05	2053		2116	No Flare Patrol													
		05	2249		2336	No Flare Patrol													
		06	0135		0213	No Flare Patrol													
		06	1755		1801	No Flare Patrol													
		06	1821		2029	No Flare Patrol													
		06	2047		2116	No Flare Patrol													
		06	2120		2219	No Flare Patrol													
0030	KANZ	07	1129	1135	1141	S19	E07	10424	08	8.0	12	SF	2	E					
0031	KANZ	07	1150	1152	1201U	S06	W63	10421	08	2.8	11U	SF	2	E					
0032	HOLL	07	1703	1705	1716	S05	W64	10421	08	2.9	13	SF	3	E			19		
0033	SVTO	08	1634	1635	1639	S10	W14	10425	08	7.6	5	SF	3	E			11		F
0034	HOLL	09	0003	0005	0009	S18	W14	10424	08	7.9	6	SF	3	E			19		F
		09	0410		0425	No Flare Patrol													
		09	2152		2157	No Flare Patrol													
		09	2239		2244	No Flare Patrol													
		09	2256		2304	No Flare Patrol													
		09	2311		2341	No Flare Patrol													
0035	LEAR	10	0126	0127	0133	S14	E64	10431	08	14.9	7	SF	3	E			20		
0036	KANZ	10	0709	0715	0725	S14	W35	10425	08	7.6	16	SF	2	E					
0037	SVTO	10	1016	1021	1024D	S06	W36	10425	08	7.7	8D	SF	3	E			52		F
0038	SVTO	10	1026E	1026	1034	S06	W35	10425	08	7.8	8D	SF	3	E			32		F
		10	1140		1141	No Flare Patrol													
		10	1151		1202	No Flare Patrol													
0039	HOLL	10	2315	2315	2319	S17	W47	10424	08	7.4	4	SF	3	E			16		
		10	2343		2351	No Flare Patrol													
0040	LEAR	12	0217	0220	0236	S10	E35	10431	08	14.7	19	SF	3	E			15		F
0041		12	06331	06342	0642	S17	W58	10424	08	7.9	9	SF					34		F
	LEAR	12	0633	0634	0645	S18	W59	10424	08	7.8	12	SF	3	E			55		F
	KANZ	12	0633	0635	0641	S17	W58	10424	08	7.9	8	SF	2	E					
	SVTO	12	0634	0636	0639	S16	W57	10424	08	7.9	5	SF	3	E			13		F
0042	KANZ	12	1008	1010	1035	S11	E39	10431	08	15.3	27	SF	2	E					
0043	SVTO	12	1009	1012	1020	S14	E32	10431	08	14.8	11	SF	3	E			20		
		12	1720		1940	No Flare Patrol													
		12	2023		2329	No Flare Patrol													
0044	LEAR	13	0046	0046	0053	S16	W72	10424	08	7.6	7	SF	3	E			22		
0045		13	09401	09441	1025	S10	E24	10431	08	15.2	45	SF					63		F
	KANZ	13	0940	0944	1025	S10	E24	10431	08	15.2	45	SF	2	E					
	SVTO	13	0941	0945	1025	S11	E23	10431	08	15.1	44	SF	3	E			63		F

6  
Aug 03

H $\alpha$  SOLAR FLARES

AUGUST 2003

Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0046	HOLL	13	1413	1415	1429	S12	E19	10431	08	15.0	16	SF	3	E		34		F
0047	HOLL	13	1436	1438	1446	S11	E23	10431	08	15.3	10	SF	3	E		25		F
		13	1711		1721	No Flare		Patrol										
		13	1952		1958	No Flare		Patrol										
		13	2010		2124	No Flare		Patrol										
		13	2137		2331	No Flare		Patrol										
0048	LEAR	13	2344	2356	2415	S14	E11	10431	08	14.8	31	SF	3	E		49		F
0049	HOLL	13	2347	2349	2402	S08	E12	10431	08	14.9	15	SF	3	E		19		FH
0050	LEAR	14	0213	0223	0236	S14	E10	10431	08	14.8	23	SF	3	E		35		FH
0051	LEAR	14	0630	0639	0719	S14	E08	10431	08	14.9	49	SF	3	E		33		F
0052	KANZ	14	0721E	0732	0734U	S12	E14	10431	08	15.4	13U	SF	2	E				
		14	1834		1839	No Flare		Patrol										
		14	1924		2153	No Flare		Patrol										
		14	2217		2255	No Flare		Patrol										
		14	2302		2323	No Flare		Patrol										
0053		15	06088	06174	0628	S08	W04	10431	08	14.9	20	SF				32		F
	LEAR	15	0608	0621	0633	S08	W05	10431	08	14.9	25	SF	3	E		37		F
	SVTO	15	0616	0617	0624	S08	W04	10431	08	15.0	8	SF	3	E		27		F
0054	LEAR	15	0842	0844	0855	S10	W03	10431	08	15.1	13	SF	3	E		34		F
0055		15	1101	1102	1104	S10	W08	10431	08	14.8	3	SF				12		
	KANZ	15	1058E	1102U	1102D	S09	W07	10431	08	14.9	4D	SF	2	E				
	SVTO	15	1101	1102	1104	S10	W08	10431	08	14.8	3	SF	3	E		12		
0056		15	11242	1127	1138	S08	W08	10431	08	14.9	14	SF				24		H
	KHAR	15	1124		1145	S09	W07	10431	08	14.9	21	SF	2	P				H
	SVTO	15	1126	1127	1131	S08	W09	10431	08	14.8	5	SF	3	E		24		
		15	1602		1612	No Flare		Patrol										
0057	HOLL	15	1632	1635	1642	S08	W10	10431	08	14.9	10	SF	3	E		12		F
		15	1948		2352	No Flare		Patrol										
0058	KANZ	16	0948	0950	0955	S09	W18	10431	08	15.0	7	SF	2	E				
		16	1508		1522	No Flare		Patrol										
		16	1528		1817	No Flare		Patrol										
		16	1839		1848	No Flare		Patrol										
0059	HOLL	16	1851E	1854U	1906	S14	W26	10431	08	14.8	15D	SF	3	E		12		
		16	2110		2131	No Flare		Patrol										
		16	2214		2351	No Flare		Patrol										
0060		17	08422	08435	0854	S10	W32	10431	08	14.9	12	SF				32		F
	KANZ	17	0842	0848	0900	S09	W31	10431	08	15.0	18	SF	2	E				
	SVTO	17	0843	0843	0847	S07	W32	10431	08	15.0	4	SF	3	E		10		
	LEAR	17	0844	0844	0856	S14	W34	10431	08	14.8	12	SF	3	E		55		F
		17	1707		1804	No Flare		Patrol										
		17	2101		2330	No Flare		Patrol										
0061	LEAR	17	2341	2342	2407	S14	W42	10431	08	14.8	26	SF	3	E		36		F
0062	LEAR	18	0240	0240	0251	S14	W44	10431	08	14.8	11	SF	3	E		23		F
0063	LEAR	18	0253	0254	0257	S14	W44	10431	08	14.8	4	SF	3	E		18		F



H $\alpha$  S O L A R F L A R E S

AUGUST 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
			26 1032		1044			No Flare	Patrol										
			26 1101		1102			No Flare	Patrol										
			26 1124		1133			No Flare	Patrol										
			26 1157		1211			No Flare	Patrol										
0075	KANZ	26	1212E	1212E	1214	S14	E24	10442	08	28.3	2D	SF	2	E					
			26 1224		1229			No Flare	Patrol										
0076		26	1552	1553	1624	N08	W51	10436	08	22.8	32	1N				201			F
	HOLL	26	1552	1553	1623	N08	W54	10436	08	22.6	31	1N	3	E		201			F
	KANZ	26	1552	1553	1624	N08	W48	10436	08	23.1	32	1N	2	E					
			26 1953		2003			No Flare	Patrol										
			26 2010		2055			No Flare	Patrol										
			26 2123		2129			No Flare	Patrol										
			26 2219		2301			No Flare	Patrol										
			27 0109		0333			No Flare	Patrol										
0077	LEAR	27	0334E	0338U	0346	N08	W56	10436	08	23.0	12D	SF	3	E		36			F
0078	LEAR	27	0500	0503	0512	N08	W56	10436	08	23.0	12	SF	3	E		43			F
0079	KHAR	27	0850	0853	0859	S10	E90	10449	09	3.1	9	SF	2	P	0856	40			DHO
0080	KANZ	27	0842	0854	0930	N05	E17	10445	08	28.6	48	SF	2	E					
0081	KHAR	27	0902	0920	0935	N06	E17	10445	08	28.6	33	1F	2	P	0924	165			EO
0082	HOLL	27	1436	1437	1454	N18	E52	10448	08	31.6	18	SF	3	E		10			F
			27 1911		2137			No Flare	Patrol										
			27 2303		2314			No Flare	Patrol										
0083	LEAR	28	0415	0418	0427	N03	E08	10445	08	28.8	12	SF	3	E		19			F
			28 0434		0442			No Flare	Patrol										
0084	KANZ	28	0655	0657	0700	S16	E75	10449	09	3.0	5	SF	2	E					
			28 0739		0744			No Flare	Patrol										
			28 0747		0754			No Flare	Patrol										
			28 0759		0800			No Flare	Patrol										
0085		28	08411	08421	0846	S16	E71	10449	09	2.7	5	SF				45			
	KANZ	28	0841	0843	0846	S16	E74	10449	09	3.0	5	SF	2	E					
	LEAR	28	0842	0842	0846	S16	E68	10449	09	2.5	4	SF	3	E		45			
			28 0903		0905			No Flare	Patrol										
0086	KANZ	28	1328	1334	1352	N03	E04	10445	08	28.9	24	SF	2	E					
			28 1657		1737			No Flare	Patrol										
0087	HOLL	28	1743	1744	1755	N04	E02	10445	08	28.9	12	SF	3	E		16			
			28 2018		2400			No Flare	Patrol										
			29 0000		0025			No Flare	Patrol										
			29 0117		0217			No Flare	Patrol										
			29 0401		0421			No Flare	Patrol										
0088	KHAR	29	1009	1011	1015	S11	W78		08	23.5	6	SF	2	P	1010	40			HO
			29 2112		2202			No Flare	Patrol										
			29 2300		2400			No Flare	Patrol										
			30 0000		0006			No Flare	Patrol										
			30 0014		0028			No Flare	Patrol										
0089	LEAR	30	0447	0450	0517	S12	W27	10442	08	28.2	30	SF	3	E		28			F

H $\alpha$  S O L A R F L A R E S

9  
Aug 03

AUGUST 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0090	KANZ	30	0552E	0552E	0620	S11	W29	10442	08	28.1	28D	SF		2	E					
0091	KANZ	30	1208	1212	1225	N09	W26	10444	08	28.5	17	SF		2	E					
		30	1628		1655															No Flare Patrol
		30	1701		1714															No Flare Patrol
0092	HOLL	30	1756	1801	1809	N09	W30	10444	08	28.5	13	SF		3	E		13			F
0093	LEAR	31	0604	0617	0647	S10	W42	10442	08	28.1	43	SF		3	E		32			F
0094	SVTO	31	0615	0630U	0638	S10	W44	10442	08	27.9	23	SF		3	E		22			

"Remarks"

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

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