

H α SOLAR FLARES

SEPTEMBER 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)	
			01 1831		1849			No Flare Patrol											
			01 2342		2400			No Flare Patrol											
			02 0000		0034			No Flare Patrol											
			02 0934		0949			No Flare Patrol											
			02 1153		1444			No Flare Patrol											
			02 1459		1548			No Flare Patrol											
			02 1620		1628			No Flare Patrol											
			02 1713		1722			No Flare Patrol											
			02 1907		1938			No Flare Patrol											
			02 2151		2204			No Flare Patrol											
			02 2212		2245			No Flare Patrol											
			02 2258		2345			No Flare Patrol											
0001	LEAR	03	0113	0115	0117	S06	W58	10442	08	29.8	4	SF		3	E		10		
0002	KANZ	03	0639	0641	0642	N20	W37	10448	08	31.4	3	SF		2	E				
			03 0953		0955			No Flare Patrol											
			03 0957		0959			No Flare Patrol											
			03 1004		1005			No Flare Patrol											
			03 1109		1110			No Flare Patrol											
			03 1122		1128			No Flare Patrol											
			03 1219		1222			No Flare Patrol											
			03 1224		1229			No Flare Patrol											
			03 1231		1258			No Flare Patrol											
			03 1336		1345			No Flare Patrol											
			03 1350		1356			No Flare Patrol											
			03 1401		1413			No Flare Patrol											
			03 1508		1524			No Flare Patrol											
			03 1701		1731			No Flare Patrol											
			03 1737		1820			No Flare Patrol											
			03 2051		2104			No Flare Patrol											
0003	KANZ	04	1532	1534	1535	S22	W37	10453	09	1.8	3	SF		2	E				
			04 1654		1743			No Flare Patrol											
			04 2038		2042			No Flare Patrol											
			04 2135		2145			No Flare Patrol											
			05 0140		0151			No Flare Patrol											
			05 0224		0231			No Flare Patrol											
			05 0253		0402			No Flare Patrol											
			05 1646		1651			No Flare Patrol											
			05 1658		1721			No Flare Patrol											
			05 1935		1957			No Flare Patrol											
			05 2355		2400			No Flare Patrol											
			06 0000		0029			No Flare Patrol											
			06 1004		1006			No Flare Patrol											
			06 1041		1043			No Flare Patrol											
			06 1045		1046			No Flare Patrol											
			06 1050		1142			No Flare Patrol											
			06 1145		1154			No Flare Patrol											
			06 1224		1230			No Flare Patrol											
			06 1248		1259			No Flare Patrol											
			06 1301		1314			No Flare Patrol											
			06 1316		1323			No Flare Patrol											
			06 1510		1516			No Flare Patrol											
			06 1528		1535			No Flare Patrol											
			06 1613		1638			No Flare Patrol											
			06 2148		2400			No Flare Patrol											
			07 0000		0027			No Flare Patrol											
			07 0105		0227			No Flare Patrol											
			07 0247		0314			No Flare Patrol											
			07 1258		1300			No Flare Patrol											
0004		07	1403	1404	1433	S18	W64	10450	09	2.7	30	SF					64	F	
	HOLL	07	1403	1404	1433	S16	W69	10450	09	2.3	30	SF	3	E			82	F	
	SVTO	07	1405E	1405U	1408D	S19	W60	10450	09	3.0	3D	SF	2	E			47		
0005	KANZ	07	1409	1415	1443	S17	W58	10450	09	3.2	34	SF		2	E				

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
			07 2112		2356			No Flare	Patrol												
			08 0014		0114			No Flare	Patrol												
			08 0916		1301			No Flare	Patrol												
			08 1541		1646			No Flare	Patrol												
			09 0132		0253			No Flare	Patrol												
			09 1019		1030			No Flare	Patrol												
			09 1542		1552			No Flare	Patrol												
			09 1621		1625			No Flare	Patrol												
			09 1639		1654			No Flare	Patrol												
			09 1959		2400			No Flare	Patrol												
			10 0000		0037			No Flare	Patrol												
			10 0230		0537			No Flare	Patrol												
			10 0705		0731			No Flare	Patrol												
			10 0736		0742			No Flare	Patrol												
			10 0929		1028			No Flare	Patrol												
			10 1035		1059			No Flare	Patrol												
			10 1136		1137			No Flare	Patrol												
			10 1352		1353			No Flare	Patrol												
			10 1357		1402			No Flare	Patrol												
			10 1404		1427			No Flare	Patrol												
			10 1636		1650			No Flare	Patrol												
			10 1753		1806			No Flare	Patrol												
			10 1843		1915			No Flare	Patrol												
			10 2150		2200			No Flare	Patrol												
			10 2223		2242			No Flare	Patrol												
0006	LEAR	10	2330	2331	2347	S07	W18	10456	09	9.6	17	SF		3	E			25		F	
			12 0509		0616			No Flare	Patrol												
			12 0619		0620			No Flare	Patrol												
0007		12	1524	1524	1528	S06	W41	10456	09	9.6	4	SF						16		F	
	SVTO	12	1524E	1524	1528D	S06	W41	10456	09	9.6	4D	SF		3	E			12		F	
	HOLL	12	1524	1524	1528	S07	W41	10456	09	9.6	4	SF		3	E			21		F	
0008	LEAR	13	0658	0702	0712	S07	W50	10456	09	9.5	14	SF		2	E			33		F	
0009	LEAR	13	0738	0741	0829	S06	W52	10456	09	9.4	51	SF		2	E			77		F	
			13 0937		0940			No Flare	Patrol												
			13 0942		0945			No Flare	Patrol												
0010	LEAR	14	0124	0125	0143	S07	W61	10456	09	9.5	19	SF		3	E			62		F	
0011	KHAR	14	0855	0858	0906	S11	W63	10456	09	9.6	11	SF		2	P	0904		30		D	
			14 1005		1023			No Flare	Patrol												
			14 1025		1026			No Flare	Patrol												
0012	HOLL	14	2239	2241	2248	S08	W73	10456	09	9.5	9	SF		3	E			44			
0013	LEAR	15	0058	0103	0117	S07	W77	10456	09	9.3	19	1F		3	E			107		F	
0014	KHAR	15	0930	0934	0943	S15	W62	10457	09	10.7	13	SF		2	P	0934		45		D	
0015	KANZ	16	0829	0830	0839	S10	E19	10459	09	17.8	10	SF		2	E						
0016	KHAR	16	1035	1037	1044	S10	W90	10456	09	9.7	9	SF		2	P	1038		50		DH	
0017		16	1055	10592	1110	S10	E20	10459	09	17.9	15	1F						110		E	
	KANZ	16	1055	1059	1110	S10	E18	10459	09	17.8	15	SF		2	E						
	KHAR	16	1057U	1101	1108D	S09	E21	10459	09	18.0	11U	1F		2	P	1101		110		E	
0018	LEAR	17	0503	0515	0532	S12	E09	10459	09	17.9	29	SF		3	E			27		F	
0019	KANZ	17	1437	1439	1447	N13	W47	10461	09	14.1	10	SF		2	E						
0020	KANZ	18	0544	0549	0600	S10	W50	10462	09	14.5	16	SF		2	E						

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Sep 03

H α SOLAR FLARES

SEPTEMBER 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement	Corr	Remarks	
								USA/Region						Mo Day			(Min)
0021	KANZ	18	0743	0745	0747	S10	W50	10462	09	14.6	4	SF	2	E			
0022	KANZ	18	0908	0908	0913	S10	W50	10462	09	14.6	5	SF	2	E			
0023	KANZ	18	1239	1249	1253	S11	W11	10459	09	17.7	14	SF	2	E			
0024	KANZ	19	0930	0932	0940	S10	W19	10459	09	18.0	10	SF	2	E			
		19	1628		1629	No Flare	Patrol										
		20	0101		0509	No Flare	Patrol										
0025	KHAR	20	0905E		0914	N08	E80	10464	09	26.4	9D	SF	2	P			
0026	KHAR	20	1108		1120D	N09	W90	10461	09	13.7	12D	SN	2	P		H	
		20	2128		2244	No Flare	Patrol										
		21	0023		0211	No Flare	Patrol										
		21	0234		0241	No Flare	Patrol										
		21	0448		0503	No Flare	Patrol										
0027	KHAR	22	0918		0926	N01	E79	10466	09	28.3	8	SF	2	P	0921	20	D
		22	1641		1953	No Flare	Patrol										
		22	2019		2057	No Flare	Patrol										
		22	2131		2249	No Flare	Patrol										
		22	2312		2317	No Flare	Patrol										
0028		23	0614	0615	0620	N06	E38	10464	09	26.1	6	SF				32	
	KANZ	23	0614	0615	0621	N08	E37	10464	09	26.0	7	SF	2	E			
	LEAR	23	0615	0615	0619	N03	E38	10464	09	26.1	4	SF	3	E		32	
0029	KANZ	23	1143	1146	1147	N01	E43	10465	09	26.7	4	SF	2	E			
0030	SVTO	23	1443	1443	1448	N01	E42	10464	09	26.7	5	SF	3	E		18	
		23	1626		1645	No Flare	Patrol										
		23	1809		2117	No Flare	Patrol										
0031	LEAR	24	0434	0434	0444	N01	E23	10464	09	25.9	10	SF	3	E		43	FH
0032	SVTO	24	0532	0532	0534	N02	E23	10464	09	25.9	2	SF	3	E		10	
0033		24	0625	0629	0636	N01	E22	10464	09	25.9	11	SF				52	FH
	SVTO	24	0625	0629	0635	N01	E22	10464	09	25.9	10	SF	3	E		64	FH
	LEAR	24	0625	0630	0636	N01	E23	10464	09	26.0	11	SF	3	E		41	FH
0034		24	0715	0717	0724	N01	E20	10464	09	25.8	9	1N				184	FH
	SVTO	24	0715	0717	0725	N01	E20	10464	09	25.8	10	1N	3	E		188	
	LEAR	24	0716	0717	0723	N01	E20	10464	09	25.8	7	1F	3	E		179	FH
0035		24	0854	0855	0900	N01	E20	10464	09	25.9	6	SF				42	FH
	SVTO	24	0854	0855	0901	N01	E20	10464	09	25.9	7	SF	3	E		68	FH
	LEAR	24	0855	0856	0858	N01	E21	10464	09	25.9	3	SF	3	E		15	FH
0036	SVTO	24	0933	0935	0942	N00	E21	10464	09	26.0	9	SF	3	E		51	H
0037		24	0952	0954	1016	N02	E20	10464	09	25.9	24	SF				30	FHL
	KHAR	24	0945E		1028	N03	E21	10464	09	26.0	43D	SF	2	P			L
	SVTO	24	0952	0954	1003	N01	E20	10464	09	25.9	11	SF	3	E		30	FH
0038		24	1035	1039	1045	N03	E18	10464	09	25.8	10	SN				56	HO
	KHAR	24	1035	1039	1045	N04	E19	10464	09	25.9	10	SN	3	P	1039	55	HO
	SVTO	24	1037	1040	1045	N02	E18	10464	09	25.8	8	SF	3	E		58	H
0039	KHAR	24	1106		1112	N03	E19	10464	09	25.9	6	SF	3	P	1109	25	DH
0040	SVTO	24	1156	1157	1201	N01	E19	10464	09	25.9	5	SF	3	E		95	FH
0041	SVTO	24	1253	1254	1258	N01	E18	10464	09	25.9	5	SF	3	E		78	H

SEPTEMBER 2003

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
							Region	Day								Apparent (10-6 Disk)	Corr (Sq Deg)	
		24 1419		1434			No Flare Patrol											
0042		24 15271	15291	1533	N02	E17	10464	09	25.9	6	SF				58			FH
	HOLL	24 1527	1530	1534	N02	E17	10464	09	25.9	7	SF	3	E		62			FH
	SVTO	24 1528	1529	1532	N01	E17	10464	09	25.9	4	SF	3	E		55			FH
0043	HOLL	24 1738	1740	1743	N01	E17	10464	09	26.0	5	SF	3	E		37			FH
		24 1959		2051			No Flare Patrol											
		24 2101		2249			No Flare Patrol											
0044	LEAR	24 2323	2323	2328	N02	E11	10464	09	25.8	5	SF	3	E		16			
		25 0033		0044			No Flare Patrol											
0045	KANZ	25 0701	0703	0706	N02	E18	10464	09	26.6	5	SF	2	E					
0046	KANZ	25 1006	1009	1014	N03	E03	10464	09	25.6	8	SF	2	E					
		25 1617		1619			No Flare Patrol											
		25 1637		2156			No Flare Patrol											
		25 2249		2254			No Flare Patrol											
0047	KANZ	26 1206	1218	1224	N01	W01	10464	09	26.4	18	SF	2	E					
0048		26 14522	1455	1500	N03	W03	10464	09	26.4	8	SF				15			
	KANZ	26 1452	1455	1501	N02	W03	10464	09	26.4	9	SF	2	E					
	HOLL	26 1454	1455	1501	N05	W04	10464	09	26.3	7	SF	3	E		16			
	SVTO	26 1455E	1455U	1458	N03	W03	10464	09	26.4	3D	SF	2	E		14			
0049	HOLL	26 1751	1751	1758	N05	W06	10464	09	26.3	7	SF	3	E		34			
0050	KANZ	27 0825	0825	0826	N03	W20	10464	09	25.8	1	SF	2	E					
0051	KANZ	27 1141	1143	1151	N02	W14	10464	09	26.4	10	SF	2	E					
0052	SVTO	27 1142	1143	1150	N14	W20	10464	09	26.0	8	SF	3	E		40			F
0053	KANZ	27 1156	1209	1223	N04	W17	10464	09	26.2	27	SF	2	E					
0054	SVTO	27 1201	1205	1223	N16	W23	10464	09	25.7	22	SF	3	E		19			FH
0055	KANZ	27 1242	1244	1249	N06	W10	10464	09	26.8	7	SF	2	E					
0056	SVTO	27 1244	1247	1250	N17	W16	10464	09	26.3	6	SF	3	E		23			H
0057	KANZ	28 0810	0813	0822	N04	W25	10464	09	26.5	12	SF	2	E					
0058	KANZ	28 1107	1114	1117	N05	W30	10464	09	26.2	10	SF	2	E					
0059	HOLL	28 1553	1555	1620	N03	W34	10464	09	26.1	27	SF	3	E		30			F
0060	HOLL	28 2036	2037	2042	N05	W37	10464	09	26.1	6	SF	3	E		24			
		29 0033		0137			No Flare Patrol											
		29 0143		0149			No Flare Patrol											
		29 0942		1316			No Flare Patrol											
0061	HOLL	29 1731	1737	1742	N03	W37	10464	09	27.0	11	SF	3	E		25			F
0062	HOLL	29 2007	2015	2021	N04	W45	10464	09	26.5	14	SF	3	E		19			F
0063	HOLL	29 2144	2145	2223	N03	W39	10464	09	27.0	39	1F	3	E		107			F
0064	LEAR	30 0029	0032	0049	N09	W40	10464	09	27.0	20	SF	3	E		36			
		30 0434		0445			No Flare Patrol											
0065	LEAR	30 0512	0512	0525	N04	W43	10464	09	27.0	13	SF	3	E		50			F

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							Region	CMP Mo Day							Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0066		30 07571	07592	0810	N02	W48	10464	09	26.7	13	SF				84		E	
	LEAR	30 0757	0801	0808	N06	W52	10464	09	26.4	11	SF	3	E		19			
	KANZ	30 0758	0759	0809	N00	W46	10465	09	26.9	11	SF	2	E					
	KHAR	30 0800E		0812	N01	W46	10465	09	26.9	12D	1F	3	P	0806	150		E	
0067	KHAR	30 0842	0843	0850	S03	E80	10473B10		6.3	8	SF	3	P	0845	30		DH	
0068		30 08445	08513	0908	N08	W44	10464	09	27.1	24	1F				160		FHO	
	KHAR	30 0844	0854	0915	N06	W44	10464	09	27.1	31	1N	3	P	0855	210		HO	
	KANZ	30 0848	0851	0904	N08	W44	10464	09	27.1	16	1F	2	E					
	LEAR	30 0849	0853	0905	N09	W45	10464	09	27.0	16	1F	3	E		111		F	
0069	KHAR	30 0956	0958	1006	S03	E80	10473B10		6.4	10	SF	3	P				D	
0070	KHAR	30 1024	1026	1033	N03	W50	10464	09	26.7	9	SF	3	P	1028	40		DO	
		30 1041		1042	No Flare Patrol													
		30 1110		1112	No Flare Patrol													
		30 1117		1118	No Flare Patrol													
		30 1124		1125	No Flare Patrol													
		30 1134		1150	No Flare Patrol													
		30 1158		1159	No Flare Patrol													
		30 1201		1206	No Flare Patrol													
		30 1215		1216	No Flare Patrol													
		30 1229		1230	No Flare Patrol													
		30 1311		1312	No Flare Patrol													
	0071	HOLL	30 2017	2019	2023	S02	E75	10471	10	6.4	6	SF	3	E		29		F
	0072	HOLL	30 2320	2321	2349	N05	W61	10464	09	26.4	29	SF	3	E		27		F
0073	LEAR	30 2322	2322	2343	N04	W53	10464	09	27.0	21	SF	3	E		10		F	

"Remarks"

- | | |
|---|---|
| <p>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.</p> | <p>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.</p> |
|---|---|

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