

4
Apr 97

H α SOLAR FLARES

APRIL 1997

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0001	SVTO	01	0506E	0508U	0515	S26	E22	8026	04	2.9	9D	SB		2	E		21			
0002	01	0755E	0757E	0808	S25	E20	8026	04	2.9	13	SF						30	0.6	EF	
	MEUD	01	0755	0757	0809	S25	E20	8026	04	2.9	14	SF				0757	50	0.6	E	
	SVTO	01	0757	0759	0807	S25	E20	8026	04	2.9	10	SF		3	E		11		F	
0003	01	1007	1015	1038	S24	E20	8026	04	3.0	31	SF						30	0.3	EK	
	MEUD	01	1007	1015	1038	S24	E21	8026	04	3.0	31	SF				1015	30	0.3	EK	
	KANZ	01	1009E	1013U	1017D	S24	E18	8026	04	2.8	8D	SF		2						
0004	01	1007*	1031	1044	S24	E22	8026	04	3.1	37	SF						40	0.4	EK	
	MEUD	01	1007	1031	1038	S24	E21	8026	04	3.0	31	SF				1031	40	0.4	EK	
	KHAR	01	1019	1031	1050	S25	E27	8026	04	3.5	31	SN		2	V				E	
	KANZ	01	1029E	1037U	1037D	S24	E19	8026	04	2.9	8D	SF		2						
0005	RAMY	01	1143	1143	1147	S26	E17	8026	04	2.8	4	SF B	1.6	3	E		12			
0006	01	1252	1254U	1259	S25	E19	8026	04	3.0	7	SF B	3.6					10			
	MEUD	01	1252	1259	S24	E21	8026	04	3.1	7	SF									
	RAMY	01	1252E	1254U	1259D	S26	E17	8026	04	2.8	7D	SF B	3.6	4	E		10			
0007	01	1343E	1347E	1408	S25	E17	8026	04	2.9	25	1B M	1.9					146	2.2	EH	
	MEUD	01	1343	1348	1409	S25	E20	8026	04	3.1	26	1B				1348	220	2.2		
	RAMY	01	1343	1348	1410	S25	E16	8026	04	2.8	27	1B M	1.9	4	E		135		EH	
	KANZ	01	1343E	1350U	1350D	S25	E16	8026	04	2.8	7D	1B		2						
	SVTO	01	1344	1347	1404	S25	E16	8026	04	2.8	20	1N		3	E		100		EH	
	HOLL	01	1346	1347	1408	S26	E16	8026	04	2.8	22	1N		3	E		130		EH	
0008	01	1447E	1449E	1458	S26	E18	8026	04	3.0	11	SF B	6.6					31	0.5		
	MEUD	01	1447	1449	1459	S25	E20	8026	04	3.2	12	SF				1449	50	0.5		
	RAMY	01	1452	1453	1458	S26	E17	8026	04	2.9	6	SF B	6.6	4	E		12			
0009	02	0031E	0040	0048	S26	E08	8026	04	2.6	17	SF C	2.2					22		HS	
	HOLL	02	0031	0040	0048	S27	E09	8026	04	2.7	17	SF C	2.2	3	E		29		H	
	LEAR	02	0039	0040	0047	S25	E08	8026	04	2.6	8	SF		3	E		14		HS	
0010	LEAR	02	0529	0530	0532	S25	E05	8026	04	2.6	3	SF C	1.3	3	E		13			
0011	02	0705E	0709E	0721	S24	E10	8026	04	3.1	16	SF B	3.8					24		F	
	SVTO	02	0705	0709	0724	S24	E09	8026	04	3.0	19	SF B	3.8	3	E		24		F	
	KANZ	02	0706	0710	0718	S24	E10	8026	04	3.1	12	SF		2						
0012	02	0707E	0713E	0728	S26	E08	8026	04	2.9	21	SF						100	1.1	ET	
	MEUD	02	0707	0713	0731	S25	E08	8026	04	2.9	24	SF				0713	100	1.1	ET	
	KANZ	02	0714	0714	0726	S26	E07	8026	04	2.8	12	SF		2						
0013	SVTO	02	0800	0800	0804	S25	E07	8026	04	2.9	4	SF		3	E		11		F	
0014	02	0832E	0834	0848	S24	E08	8026	04	3.0	16	SF B	3.5					15		F	
	SVTO	02	0832	0834	0849	S24	E08	8026	04	3.0	17	SF B	3.5	3	E		15		F	
	KANZ	02	0834	0834	0846	S24	E09	8026	04	3.0	12	SF		2						
0015	KHAR	02	0910E		0915U	S25	E14	8026	04	3.5	5U	SF		2	V				H	
0016	02	0922E	0923E	0937	S24	E09	8026	04	3.1	15	SN B	6.8					68	1.1	EFHT	
	MEUD	02	0922	0923	0939	S24	E08	8026	04	3.0	17	SN				0926	100	1.1	T	
	KANZ	02	0922	0926	0938	S24	E08	8026	04	3.0	16	SF		2						
	SVTO	02	0924	0927	0942	S24	E07	8026	04	2.9	18	SF B	6.8	3	E		35		F	
	KHAR	02	0926	0928	0929	S25	E14	8026	04	3.5	3	SN		2	V				HE	
0017	KHAR	02	1023		1037	S25	E14	8026	04	3.5	14	SF		2	V				H	
0018	02	1022E	1024E	1034	S24	E06	8026	04	2.9	12	SF B	2.4					19			
	KANZ	02	1022	1026	1034	S25	E07	8026	04	3.0	12	SF		2						
	SVTO	02	1023	1024	1035	S24	E06	8026	04	2.9	12	SF B	2.4	3	E		19			
0019	02	1202E	1206E	1221	S24	E07	8026	04	3.0	19	SF B	2.4					67	1.1	FT	
	KANZ	02	1202	1206	1225	S25	E07	8026	04	3.0	23	SF		2						
	SVTO	02	1205	1207	1224	S24	E06	8026	04	3.0	19	SF B	2.4	3	E		34		F	
	MEUD	02	1206	1212	1215	S24	E08	8026	04	3.1	9	SF				1212	100	1.1	T	

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
		02 2220		2240			No Flare Patrol											
		02 2302		2330			No Flare Patrol											
		03 0301		0609			No Flare Patrol											
		03 1226		1239			No Flare Patrol											
		03 1934		1956			No Flare Patrol											
		03 2033		2044			No Flare Patrol											
		03 2106		2205			No Flare Patrol											
		04 0514		0528			No Flare Patrol											
		04 1354		1420			No Flare Patrol											
		04 1858		1900			No Flare Patrol											
		04 2142		2147			No Flare Patrol											
0020	PALE	05 0107	0107	0112	S28	E50	8027	04	8.9	5	SF		3	E		17		
		05 0336		0358			No Flare Patrol											
		05 0409		0540			No Flare Patrol											
0021	SVTO	05 1528	1535	1538	S29	E41	8027	04	8.8	10	SF B	4.8	3	E		11		F
0022		05 2028	2028	2040	S28	E39	8027	04	8.9	12	SF B	5.6				40		
	RAMY	05 2025E	2026U	2041	S30	E38	8027	04	8.8	16D	SF		3	E		40		
	PALE	05 2028	2028	2039	S27	E40	8027	04	9.0	11	SF B	5.6	3	E		39		
		06 0120		0459			No Flare Patrol											
		06 0517		0525			No Flare Patrol											
		06 0638		0751			No Flare Patrol											
		06 0802		0816			No Flare Patrol											
		06 0927		1009			No Flare Patrol											
0023		06 12024	12103	1224	S28	E29	8027	04	8.8	22	SF					36	0.6	EF
	KANZ	06 1202	1210	1226	S29	E29	8027	04	8.8	24	SF		2					
	SVTO	06 1206	1213	1227	S28	E29	8027	04	8.8	21	SF		3	E		21		F
	MEUD	06 1210E	1213	1220	S28	E30	8027	04	8.8	10D	SF				1213	50	0.6	E
		07 0119		0317			No Flare Patrol											
		07 0327		0433			No Flare Patrol											
0024	KANZ	07 1011	1015	1023	S23	W59	8026	04	2.9	12	SF		2					
0025		07 13532	13598	1508	S29	E20	8027	04	9.1	75	2N C	6.8				300	5.2	CSUY
	MEUD	07 1353	1406	1447	S27	E25	8027	04	9.5	54	2B				1406	450	5.2	CSU
	RAMY	07 1354	1403	1524	S30	E19	8027	04	9.1	90	2N C	6.8	4	E		297		UY
	HOLL	07 1355	1359	1456	S29	E17	8027	04	8.9	61	1F		3	E		161		US
	SVTO	07 1355	1401U	1459D	S30	E19	8027	04	9.1	64D	2N		2	E		290		US
	KANZ	07 1355	1407	1523	S29	E18	8027	04	9.0	88	3N		2					U
0026	SVTO	09 0440E	0445U	0503D	S29	W04	8027	04	8.9	23D	SF B	4.2	1	E		55		
0027		09 1055*	11309	1142	S24	W80		04	3.3	47	SF							C
	MEUD	09 1055	1130	1142	S24	W80		04	3.3	47	SF							C
	KANZ	09 1135	1139	1143	S24	W81		04	3.2	8	SF		2					
0028	SVTO	10 1021	1029	1033	N24	W28	8029	04	8.3	12	SF		3	E		13		
0029	MEUD	10 1233	1239	1242	S30	W15	8027	04	9.3	9	SF				1239	40	0.5	E
		10 2112		2118			No Flare Patrol											
		10 2131		2322			No Flare Patrol											
		11 2205		2246			No Flare Patrol											
0030		13 18383	1842	1853	S30	W46	8031	04	10.1	15	SF B	8.2				19		F
	RAMY	13 1838	1842	1855	S29	W47	8031	04	10.1	17	SF B	8.2	3	E		21		F
	HOLL	13 1841	1842	1851	S30	W45	8031	04	10.2	10	SF		3	E		17		
0031	MEUD	14 0835	0846	0854	S28	W55	8031	04	10.0	19	SF				0846	20	0.4	E
0032		15 0629	0645	0711	S23	E12	8032	04	16.2	42	SF B	1.7				31		
	KANZ	15 0629	0645	0709	S23	E12	8032	04	16.2	40	SF		2					
	SVTO	15 0629	0645	0713	S23	E13	8032	04	16.3	44	SF B	1.7	3	E		31		

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray Opt	Obs See	Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0033	SVTO	15 0959	1001	1007	S23	E11	8032	04	16.3	8	SF B	6.8	3	E		34		F
0034	SVTO	15 1011	1018U	1028D	S23	E11	8032	04	16.3	17D	SF B	5.9	3	E		29		F
0035	KANZ	15 1249	1249	1253	S22	E10	8032	04	16.3	4	SF		2					
0036	KANZ	15 1301	1304	1309	S22	E10	8032	04	16.3	8	SF		2					
0037	MEUD	15 1303	1306	1321	N25	W90	8029	04	8.6	18	SF							
0038		15 14091	14121	1430	S24	E10	8032	04	16.4	21	SN C	1.0				88	0.9	H
	MEUD	15 1409	1413	1428	S23	E14	8032	04	16.7	19	SN				1413	90	0.9	
	KANZ	15 1409	1413	1429	S24	E10	8032	04	16.4	20	SF		2					
	HOLL	15 1409	1413	1432	S24	E08	8032	04	16.2	23	SF C	1.0	3	E		73		H
	RAMY	15 1410	1412	1432	S23	E09	8032	04	16.3	22	1N		3	E		102		
0039		15 1730	1731	1742	S28	W77	8031	04	9.7	12	SF B	5.3				47		
	HOLL	15 1730	1731	1740	S27	W78	8031	04	9.6	10	SF		3	E		39		
	RAMY	15 1730	1731	1743	S28	W76	8031	04	9.8	13	SF B	5.3	3	E		55		
0040	HOLL	15 2006	2007	2010	S24	E04	8032	04	16.1	4	SF B	3.1	3	E		22		
		16 0126		0202	No Flare Patrol													
0041	LEAR	16 0400	0401	0403	S30	W74	8031	04	10.3	3	SF		3	E		37		
0042		16 1105	1108	1117	S22	W00	8032	04	16.5	12	SF					83	1.5	
	MEUD	16 1105	1108	1121	S23	W00	8032	04	16.5	16	SF				1108	150	1.5	
	RAMY	16 1106E	1108U	1113	S20	W01	8032	04	16.4	7D	SF		2	E		16		
		17 0942		0949	No Flare Patrol													
		17 0951		0957	No Flare Patrol													
		17 1004		1016	No Flare Patrol													
		17 2119		2127	No Flare Patrol													
		17 2138		2151	No Flare Patrol													
		17 2211		2255	No Flare Patrol													
		18 0134		0210	No Flare Patrol													
		19 0000		0011	No Flare Patrol													
		19 0201		0626	No Flare Patrol													
		20 0953		1025	No Flare Patrol													
		20 2201		2259	No Flare Patrol													
		21 0002		0204	No Flare Patrol													
		21 0618		0642	No Flare Patrol													
		21 1529		1905	No Flare Patrol													
		21 1945		2011	No Flare Patrol													
		21 2046		2050	No Flare Patrol													
		21 2115		2256	No Flare Patrol													
		22 0949		1025	No Flare Patrol													
		22 1123		1127	No Flare Patrol													
		22 2046		2101	No Flare Patrol													
		22 2123		2131	No Flare Patrol													
		22 2139		2204	No Flare Patrol													
		22 2230		2243	No Flare Patrol													
		23 1846		1851	No Flare Patrol													
		23 1936		2150	No Flare Patrol													
		23 2223		2244	No Flare Patrol													
		24 2216		2218	No Flare Patrol													
		25 1911		2005	No Flare Patrol													
		25 2020		2258	No Flare Patrol													
		26 2053		2101	No Flare Patrol													
		26 2202		2257	No Flare Patrol													
0043	LEAR	26 2340	2351	2355	S17	W37	8036	04	24.2	15	SF B	6.8	3	E		16		F
		27 0920		0924	No Flare Patrol													
		27 0941		0945	No Flare Patrol													
		27 1009		1040	No Flare Patrol													
		27 1149		1158	No Flare Patrol													
		27 1211		1226	No Flare Patrol													
		27 1317		1318	No Flare Patrol													

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											Time (UT)	Apparent (10-6 Disk)	
		28 0316		0326		No Flare Patrol							
		28 0750		0759		No Flare Patrol							
		28 1248		1251		No Flare Patrol							
		29 2050		2112		No Flare Patrol							
		29 2221		2231		No Flare Patrol							
		30 1641		1714		No Flare Patrol							

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