

H α SOLAR FLARES

JANUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
								USAF Region						Mo	Day		(Min)	Opt
0001	LEAR	01	0132	0132	0139	S22	W69	8124	12	26.9	7	SF	3	E		27		
0002	01	0304	0308	0322	S22	W67	8124	12	27.1	18	1B				4192			
	LEAR	01	0304	0308	0317	S22	W70	8124	12	26.8	13	SN	3	E		43		
	MITK	01	0306	0308	0327	S23	W64	8124	12	27.3	21	1B		C	0308	8340		
0003	LEAR	01	0655	0701	0718	S19	W70	8124	12	27.0	23	SF	3	E		41		
0004	KANZ	01	0826	0830	0838	S26	W71	8124	12	26.9	12	SF	2	C				
0005	KANZ	01	0914	0922	0938	N16	W28	8126	12	30.4	24	SF	2	C				
0006	KANZ	01	0930	0935	0946	S25	W70	8124	12	27.1	16	SF	2	C				
	01	1027		1030	No Flare Patrol													
	01	1220		1227	No Flare Patrol													
	01	1403		1410	No Flare Patrol													
	02	1026		1117	No Flare Patrol													
	02	1134		1138	No Flare Patrol													
0007	02	1143	1151U	1159D	N17	W40	8126	12	30.5	16D	SF				14	F		
	KANZ	02	1143	1151U	1151D	N17	W43	8126	12	30.3	8D	SF	2	C				
	RAMY	02	1151E	1151U	1159D	N17	W38	8126	12	30.7	8D	SF	3	E		14	F	
0008	RAMY	02	1221	1232	1250	N19	W42	8126	12	30.4	29	SF	4	E		34	F	
0009	RAMY	02	1302	1303	1306	S19	W86	8124	12	27.1	4	SF	4	E		21		
0010	RAMY	02	1356	1356	1403	N19	W61		12	29.0	7	SF	4	E		11	H	
0011	02	1624	1625	1629	S29	W16	8130	01	1.4	5	SF				14	FH		
	RAMY	02	1623E	1625U	1631D	S29	W16	8130	01	1.4	8D	SF	3	E		16	FH	
	HOLL	02	1624	1625	1629	S29	W16	8130	01	1.4	5	SF	3	E		13		
	02	2029		2039	No Flare Patrol													
	02	2147		2208	No Flare Patrol													
0012	URUM	03	0435	0443	0451	N22	W55	8126	12	30.1	16	SN		C		48	1.0	D
0013	SVTO	03	1112E	1113U	1121D	N21	W57	8126	12	30.2	9D	SF	2	E		13		F
	03	1724		1752	No Flare Patrol													
	03	2147		2209	No Flare Patrol													
	04	0231		0252	No Flare Patrol													
	04	0418		0500	No Flare Patrol													
	04	0505		0620	No Flare Patrol													
	04	0726		0733	No Flare Patrol													
0014	KANZ	04	0845	0845	0853	N19	W67	8126	12	30.3	8	SF	2	C				
0015	KANZ	04	0921	0925	0925	N18	W67	8126	12	30.4	4	SF	2	C				
	04	1409		1410	No Flare Patrol													
	04	1546		1603	No Flare Patrol													
	04	1641		1713	No Flare Patrol													
	04	2133		2302	No Flare Patrol													
	05	1411		1433	No Flare Patrol													
	05	1916		1927	No Flare Patrol													
	05	1953		2214	No Flare Patrol													
	05	2218		2319	No Flare Patrol													
	06	1606		1613	No Flare Patrol													
	06	2151		2202	No Flare Patrol													
0016	KANZ	08	0824E	0824U	0920	S26	E56	8132A	01	12.7	56D	1F	2	C				U
	08	2337		2400	No Flare Patrol													
	09	0000		0000	No Flare Patrol													
	09	0008		0031	No Flare Patrol													

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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)			
0017	HOLL	10 1816	1819	1822	S27	E21	8131	01	12.4	6	SF	3	E		10				
		10 1958		2002															
		10 2118		2125															
		10 2204		2213															
		12 0000		0001															
0018	LEAR	12 0211	0222	0235	S26	E12	8131	01	13.0	24	SF	3	E		64			F	
0019	KANZ	12 0829	0837	0849	S23	E14	8131	01	13.4	20	SF	2	C						
0020		12 1133	1141	1153	S24	E12	8131	01	13.4	20	SF				52			FH	
	KANZ	12 1133	1141	1153	S24	E13	8131	01	13.5	20	SF	2	C						
	SVTO	12 1144E	1148U	1156D	S24	E10	8131	01	13.3	12D	SF	2	E		52			FH	
		12 1214		1219															
0021	HOLL	12 1451	1455	1456	S23	E07	8131	01	13.1	5	SF	3	E		24				
0022		12 15029	15127	1528	S24	E08	8131	01	13.2	26	SF				16				
	HOLL	12 1502	1519	1529	S24	E07	8131	01	13.2	27	SF	3	E		21				
	RAMY	12 1511	1512	1527	S23	E09	8131	01	13.3	16	SF	3	E		12				
0023	HOLL	12 1606	1611	1613	S23	E06	8131	01	13.1	7	SF	3	E		11				
0024		12 16295	16408	1650	S23	E05	8131	01	13.1	21	SF				28			E	
	HOLL	12 1629	1648	1659	S23	E05	8131	01	13.1	30	SF	3	E		45				
	RAMY	12 1634	1640	1642	S23	E05	8131	01	13.1	8	SF	4	E		11			E	
0025	RAMY	12 1645	1647	1654	S22	E05	8131	01	13.1	9	SF	4	E		19				
0026	HOLL	12 1702	1706	1707	S25	W01	8131	01	12.6	5	SF	3	E		15				
0027	HOLL	12 2105	2105	2109	S23	E03	8131	01	13.1	4	SF	3	E		11				
0028	LEAR	13 0156	0158	0211	S24	E01	8131	01	13.1	15	SF	3	E		15				
0029	URUM	13 0351E	0351	0400	S24	W01	8131	01	13.1	9D	SN		P		64	0.7		E	
0030	URUM	13 0401	0428	0428D	S20	W02	8131	01	13.0	27D	SF		P		32	0.3		D	
0031	KANZ	13 1012	1012	1016D	S23	W05	8131	01	13.0	4D	SF	2	C						
		13 1017		1249															
		13 1326		1420															
		13 1957		2004															
		13 2020		2057															
		13 2156		2218															
0032	URUM	14 0303	0320	0402	S24	W13	8131	01	13.1	59	SN		C		96	1.1		E	
0033		14 0836*	08501	0905	S24	W16	8131	01	13.1	29	SN				59	1.5		D	
	URUM	14 0836	0851	0925	S24	W17	8131	01	13.0	49	SB		C		129	1.5		D	
	SVTO	14 0848	0851	0855	S24	W16	8131	01	13.1	7	SF	2	E		19				
	LEAR	14 0850	0850	0855	S24	W16	8131	01	13.1	5	SF	3	E		28				
		14 1036		1058															
0034	SVTO	14 1150	1152	1156	S24	W19	8131	01	13.0	6	SF	2	E		11				
0035		14 13101	1312	1325	S24	W19	8131	01	13.1	15	SF				56			EF	
	SVTO	14 1310	1311U	1317D	S25	W18	8131	01	13.1	7D	SF	2	E		59			F	
	RAMY	14 1311	1312	1325	S23	W20	8131	01	13.0	14	SF	4	E		54			E	
0036	HOLL	14 1540	1543	1554	S23	W20	8131	01	13.1	14	SF	3	E		13				
0037		14 15576	16006	1623	S25	W18	8131	01	13.3	26	SF				60			FH	
	HOLL	14 1557	1600	1626	S26	W18	8131	01	13.3	29	SF	3	E		61			H	
	RAMY	14 1603	1606	1620	S24	W18	8131	01	13.3	17	SF	4	E		58			F	

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0056	URUM	19	0431E	0431U	0437	N16	W53	8136	01	15.2	6D	SN			P	48	0.9	D		
		19	1031		1049			No Flare Patrol												
		19	1059		1132			No Flare Patrol												
		19	1137		1145			No Flare Patrol												
		19	1203		1220			No Flare Patrol												
		19	1223		1232			No Flare Patrol												
0057	KANZ	19	1342	1342	1346	S24	E53		01	23.7	4	SF		2	C					
		19	1746		1918			No Flare Patrol												
		19	1943		2127			No Flare Patrol												
		20	1038		1144			No Flare Patrol												
		20	2151		2251			No Flare Patrol												
		21	0946		0951			No Flare Patrol												
		21	1000		1112			No Flare Patrol												
		21	2021		2231			No Flare Patrol												
0058	HOLL	22	1930	1933	1939	S36	E74	8143	01	28.7	9	SF		3	E	29				
0059		22	2027*	20289	2040	S38	E75	8143	01	28.9	13	SF				18				
	RAMY	22	2027	2028	2037	S37	E77	8143	01	29.0	10	SF		4	E	16				
	HOLL	22	2037	2037	2042	S39	E73	8143	01	28.8	5	SF		3	E	20				
0060	HOLL	22	2101	2106	2108	S38	E73	8143	01	28.8	7	SF		3	E	13				
0061	LEAR	23	0110	0111	0115	S37	E73	8143	01	28.9	5	SF		3	E	15				
0062	LEAR	23	0359	0400	0404	S36	E65	8143	01	28.4	5	SF		3	E	27				
		24	0926		0933			No Flare Patrol												
		24	2013		2027			No Flare Patrol												
		24	2032		2045			No Flare Patrol												
		24	2115		2141			No Flare Patrol												
0063	URUM	25	0408	0411	0414	S36	E49	8143	01	29.1	6	SN			C	96	1.7	E		
		25	1031		1122			No Flare Patrol												
		25	1343		1352			No Flare Patrol												
0064	HOLL	25	1530	1530	1536	N21	E25	8147A	01	27.6	6	SF		3	E	11				F
0065		25	1943	1943	1952	S17	W39	8142	01	22.8	9	SN				51				F
	RAMY	25	1936E	1936U	1943D	S16	W39	8142	01	22.8	7D	SN		2	E	62				
	HOLL	25	1943	1943	1952	S18	W39	8142	01	22.8	9	SF		3	E	40				F
0066	HOLL	25	2128	2132	2158	N22	E53	8145	01	30.0	30	1B		3	E	189				FH
0067	LEAR	26	0351	0352	0402	N25	E45	8145	01	29.6	11	SF		3	E	28				
0068	LEAR	26	0652	0657	0705	S36	E30	8143	01	28.7	13	SF		3	E	20				
0069	URUM	26	0758	0803	0811	S36	E29	8143	01	28.6	13	SB			C	48	0.7	D		
0070		26	09463	09494	0956	S36	E28	8143	01	28.6	10	SN				24	0.4	D		
	URUM	26	0946	0953	0958	S35	E28	8143	01	28.6	12	SN			C	32	0.4	D		
	LEAR	26	0949	0949	0953	S36	E28	8143	01	28.6	4	SF		3	E	16				
		26	1202		1207			No Flare Patrol												
		26	1209		1215			No Flare Patrol												
		26	1309		1343			No Flare Patrol												
0071	KANZ	26	1404	1404	1408	S21	W40	8142	01	23.5	4	SF		2	C					
0072		26	1439	1444	1500	N24	E42	8145	01	29.8	21	SF				32				
	RAMY	26	1439	1444	1500	N22	E42	8145	01	29.8	21	SF		4	E	32				
	KANZ	26	1440E	1444	1448D	N25	E42	8145	01	29.9	8D	SF		2	C					

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0073		26	1615	1615	1620	S18	W42	8142	01	23.5	5	SF					14		H
	RAMY	26	1615	1615	1620	S18	W42	8142	01	23.5	5	SF		4	E		12		H
	HOLL	26	1615	1617	1620	S19	W43	8142	01	23.4	5	SF		3	E		16		
0074		26	1754	1755	1758	S18	W43	8142	01	23.5	4	SF					28		
	RAMY	26	1754	1755	1758	S18	W42	8142	01	23.5	4	SF		4	E		22		
	HOLL	26	1754	1755	1758	S18	W44	8142	01	23.4	4	SF		3	E		33		
0075	RAMY	26	2107	2108	2110	S17	W44	8142	01	23.5	3	SF		3	E		15		
0076	HOLL	26	2224	2227	2254	S17	W55	8142	01	22.7	30	SN		3	E		95		H
		27	2128		2134	No Flare Patrol													
		27	2209		2216	No Flare Patrol													
		27	2306		2400	No Flare Patrol													
		28	0000		0003	No Flare Patrol													
		28	0239		0333	No Flare Patrol													
		28	0459		0701	No Flare Patrol													
0077	LEAR	29	0147	0150	0207	S33	W05	8143	01	28.7	20	SF		3	E		68		
		29	2056		2114	No Flare Patrol													
		29	2129		2137	No Flare Patrol													
		29	2205		2219	No Flare Patrol													
0078	LEAR	30	0105	0106	0110	S35	W20	8143	01	28.4	5	SF		3	E		22		
		30	0733		0735	No Flare Patrol													
		30	2257		2314	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> |
|---|---|

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