

DECEMBER 1997

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)			
0001	LEAR	01	0028	0029	0039	N17	E27	8113	12	3.1	11	SF	4	E		18		
0002	LEAR	01	0039	0040	0042	N18	E27	8113	12	3.1	3	SF	4	E		13		
0003	LEAR	01	0130	0131	0142	N17	E27	8113	12	3.1	12	SF	4	E		22		F
0004	LEAR	01	0235	0235	0331	N19	E27	8113	12	3.2	56	1N	4	E		105		
0005	LEAR	01	0439	0439	0444	N19	E26	8113	12	3.2	5	SF	3	E		12		
			01 0626		0733													No Flare Patrol
			01 0749		0801													No Flare Patrol
			01 0927		0928													No Flare Patrol
0006	LEAR	01	0929	0930	0935	N19	E18	8113	12	2.8	6	SF	3	E		24		
0007	SVTO	01	0952	0952U	1001D	N18	E17	8113	12	2.7	9D	SF	3	E		16		
			01 1034		1055													No Flare Patrol
			01 1059		1101													No Flare Patrol
0008	SVTO	01	1139	1139	1151	N18	E16	8113	12	2.7	12	SF	3	E		12		
0009	SVTO	01	1226	1232	1249	N20	E19	8113	12	3.0	23	SF	3	E		13		
0010		01	1326	1328	1346	N19	E17	8113	12	2.8	20	SN				76		
	RAMY	01	1326	1328	1344	N20	E19	8113	12	3.0	18	SF	4	E		69		
	SVTO	01	1326	1328	1347	N18	E15	8113	12	2.7	21	SN	3	E		83		
			01 1642		1714													No Flare Patrol
			01 1759		1815													No Flare Patrol
			01 1834		1844													No Flare Patrol
0011	RAMY	01	1845E	1845U	1855	N20	E16	8113	12	3.0	10D	SF	3	E		11		F
0012		01	19104	19239	2005	N18	E12	8113	12	2.7	55	1F				141		F
	HOLL	01	1910	1932	2010	N17	E13	8113	12	2.8	60	1F	3	E		171		
	RAMY	01	1914	1923	2000	N18	E12	8113	12	2.7	46	1F	3	E		111		F
			01 2138		2400													No Flare Patrol
			02 0000		0021													No Flare Patrol
			02 0254		0329													No Flare Patrol
			02 0354		0446													No Flare Patrol
			02 0531		0604													No Flare Patrol
0013	LEAR	02	0536	0538	0550	N19	E08	8113	12	2.8	14	SF	3	E		75		
0014	LEAR	02	0653	0653	0658	N19	E08	8113	12	2.9	5	SF	3	E		12		
			02 0734		1054													No Flare Patrol
			02 2119		2137													No Flare Patrol
			02 2212		2245													No Flare Patrol
			02 2249		2301													No Flare Patrol
0015	LEAR	03	0058	0118	0137	N19	W02	8113	12	2.9	39	SF	3	E		45		
0016	LEAR	03	0326	0330	0402	N19	W03	8113	12	2.9	36	SF	3	E		50		
0017	URUM	03	0330	0344	0415	N20	W02	8113	12	3.0	45	SN		C		80	0.9	E
0018	LEAR	03	0403	0405	0411	N19	W04	8113	12	2.9	8	SF	3	E		11		
0019	LEAR	03	0412	0417	0446	N19	W04	8113	12	2.9	34	SF	3	E		26		
0020	LEAR	03	0505	0505	0512	N19	W04	8113	12	2.9	7	SF	3	E		11		
0021		03	07063	07152	0728	N20	W05	8113	12	2.9	22	SF				62	0.9	E
	LEAR	03	0706	0715	0734	N19	W06	8113	12	2.8	28	SF	3	E		44		
	URUM	03	0709	0717	0723	N20	W04	8113	12	3.0	14	SF		C		80	0.9	E

H α SOLAR FLARES

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											Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
		03 0921		0926		No Flare Patrol								
		03 0955		1039		No Flare Patrol								
0022	RAMY	03 1404	1408	1416	N19 W10	8113	12	2.8	12	SF	4	E	13	F
0023	LEAR	03 2222	2222	2242	N22 W10	8113	12	3.2	20	SF	3	E	10	
0024	LEAR	04 0127	0127	0133	N20 W15	8113	12	2.9	6	SF	3	E	16	
0025	LEAR	04 0543	0550	0604	N21 W17	8113	12	2.9	21	SF	3	E	25	
0026	LEAR	04 2329	2333	2344	N22 W25	8113	12	3.0	15	SF	3	E	13	F
		05 0925		1103		No Flare Patrol								
0027	KANZ	06 0840	0844	0900	N19 W44	8113	12	3.0	20	SF	2	C		
0028	URUM	06 0853	0857	0909	N18 W44	8113	12	3.0	16	SF		C	64	1.0 E
		06 2106		2149		No Flare Patrol								
0029	URUM	07 0543	0550	0606	S28 W40	8114	12	4.1	23	SF		C	32	0.5 E
0030	KANZ	07 0949	0953	1001	S30 W41	8114	12	4.2	12	SF	2	C		
		07 1058		1104		No Flare Patrol								
		07 2305		2342		No Flare Patrol								
		08 1027		1103		No Flare Patrol								
		08 1221		1333		No Flare Patrol								
		08 2238		2248		No Flare Patrol								
		08 2303		2400		No Flare Patrol								
		09 0000		0004		No Flare Patrol								
		09 0026		0048		No Flare Patrol								
		09 2350		2400		No Flare Patrol								
		10 0000		0059		No Flare Patrol								
0031	URUM	10 0529	0535	0541	N32 W15	8119	12	9.0	12	SN		C	145	1.8 E
0032	KANZ	10 1019E	1019U	1027	N28 W19	8116	12	8.9	80	SF	2	C		
		10 1959		2011		No Flare Patrol								
		10 2207		2208		No Flare Patrol								
0033	URUM	11 0409	0421	0428	N31 W29	8119	12	8.9	19	SN		C	48	0.7 E
		11 1131		1219		No Flare Patrol								
		11 1230		1252		No Flare Patrol								
		11 1337		1409		No Flare Patrol								
		11 1415		1431		No Flare Patrol								
		11 1456		1740		No Flare Patrol								
		11 1834		1854		No Flare Patrol								
		11 1957		2017		No Flare Patrol								
		11 2244		2307		No Flare Patrol								
		11 2323		2334		No Flare Patrol								
		11 2350		2355		No Flare Patrol								
0034	LEAR	12 0607	0609	0613	N32 W05	8122	12	11.8	6	SF	3	E	19	F
		12 0650		0708		No Flare Patrol								
0035	URUM	12 0709	0718	0733	N34 W41	8119	12	9.0	30	SN		C	46	1.1 E
	LEAR	12 0709	0723	0745	N33 W43	8119	12	8.9	36	SB		C	64	1.1 E
	LEAR	12 0717	0718	0733	N36 W39	8119	12	9.2	16	SF	3	E	27	
0036	URUM	12 0747	0758	0817	N29 W10	8122	12	11.5	30	1B		C	193	2.3 E
0037	LEAR	12 0857	0858	0905	N30 W08	8122	12	11.7	8	SF	3	E	13	
0038	KHAR	12 0920U		0935	N32 W43	8119	12	9.0	15U	SF	2	V		D

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												Apparent (10-6 Disk)	Corr (Sq Deg)		
		28 0533		0640		No Flare Patrol									
		28 0644		0751		No Flare Patrol									
		28 1103		1123		No Flare Patrol									
0065	HOLL	28 1751	1752	1756	S22 W25	8124	12 26.8	5	SF	3 E		18			
0066	KANZ	29 0737E	0739	0743	S23 W28	8124	12 27.1	6D	SF	2 C					
0067	RAMY	29 1216	1218	1223	N18 E10	8126	12 30.3	7	SF	3 E		31		E	
0068	URUM	30 0550	0559	0601	S22 W47	8124	12 26.6	11	SB		C	64	1.0	E	
0069	URUM	30 0552	0559	0605	N18 W01	8126	12 30.2	13	SN		C	32	0.4	D	
		30 1944		1958		No Flare Patrol									
		30 2030		2032		No Flare Patrol									
		30 2121		2227		No Flare Patrol									
0070	LEAR	31 0659	0703	0714	N18 W12	8126	12 30.4	15	SF	3 E		45			
		31 1058		1114		No Flare Patrol									
		31 1335		1354		No Flare Patrol									
0071	HOLL	31 1519	1519	1532	N18 W19	8126	12 30.2	13	SF	3 E		21			
0072	HOLL	31 1827	1828	1831	S21 W63	8124	12 26.9	4	SF	3 E		12			
0073		31 1843	1844	1851	S22 W63	8124	12 26.9	8	SF			42		H	
	RAMY	31 1843	1844	1850	S23 W63	8124	12 26.9	7	SF	4 E		38			
	HOLL	31 1843	1844	1852	S22 W63	8124	12 26.9	9	SF	3 E		46		H	
0074		31 2022	2023	2050	S22 W63	8124	12 27.0	28	SF			13		F	
	RAMY	31 2022	2023	2044	S22 W62	8124	12 27.1	22	SF	4 E		15		F	
	HOLL	31 2022	2023	2056	S22 W64	8124	12 26.9	34	SF	3 E		11			

"Remarks"

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|---|---|
| <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