



FEBRUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0011	HOLL	11	1616	1616	1619	S27 E61	8156	02	16.4	3	SF		3	E		11		
			11 1741		1746	No Flare Patrol												
			11 1847		1908	No Flare Patrol												
			11 1923		2009	No Flare Patrol												
			11 2022		2040	No Flare Patrol												
			11 2053		2114	No Flare Patrol												
0012	LEAR	11	2341	2344	2346	S29 E51	8156	02	16.0	5	SF		3	E		15		
0013	LEAR	12	0407	0412	0416	S29 E49	8156	02	16.0	9	SF		3	E		14		
0014	LEAR	12	0416	0418	0421	S29 E49	8156	02	16.0	5	SF		3	E		19		
0015	URUM	12	0432	0435	0442	S25 E52	8156	02	16.2	10	SB			C		64	1.1	D
0016	URUM	12	0841	0917	0933	S25 E53	8156	02	16.5	52	SB			C		48	0.8	D
			12 1037		1050	No Flare Patrol												
			12 1247		1318	No Flare Patrol												
0017	HOLL	12	1449	1453	1459	S27 E46	8156	02	16.2	10	SF		3	E		14		
0018	RAMY	12	1828	1829	1834	S25 E47	8156	02	16.4	6	SF		4	E		22		
0019		12	1924	1925	1928	S26 E45	8156	02	16.3	4	SF					26		
	HOLL	12	1924	1925	1928	S26 E45	8156	02	16.3	4	SF		3	E		26		
	RAMY	12	1924	1925	1928	S25 E45	8156	02	16.3	4	SF		4	E		25		
0020	LEAR	13	0536	0536	0542	S22 E40	8156	02	16.3	6	SF		3	E		14		F
			13 0711		0717	No Flare Patrol												
			13 2028		2032	No Flare Patrol												
			13 2055		2400	No Flare Patrol												
			14 0000		0021	No Flare Patrol												
			14 0201		0211	No Flare Patrol												
			14 0620		0802	No Flare Patrol												
0021	LEAR	14	0931	0938	0944	S24 E23	8156	02	16.2	13	SF		3	E		61		
0022	KANZ	14	0935	0939	0951	S27 E24	8156	02	16.3	16	SF		2	C				
0023	LEAR	14	0945	0951	1001	S24 E25	8156	02	16.3	16	SF		3	E		81		F
0024	KANZ	14	0947	1003	1011	S31 E23	8156	02	16.2	24	SF		2	C				
0025	LEAR	14	1019	1026	1029D	S22 E26	8156	02	16.4	10D	SF		3	E		24		
0026	KANZ	14	1243	1243	1251	S25 E20	8156	02	16.1	8	SF		2	C				
			14 1413		1418	No Flare Patrol												
			14 1552		1656	No Flare Patrol												
			14 1840		1902	No Flare Patrol												
			14 1927		1940	No Flare Patrol												
			14 2134		2240	No Flare Patrol												
0027	LEAR	15	0418	0423	0440	S24 E14	8156	02	16.3	22	SF		3	E		60		
0028	LEAR	15	0538	0539	0601	S23 E12	8156	02	16.1	23	SF		3	E		21		F
0029		15	07092	07131	0726	S26 E12	8156	02	16.2	17	1F					64		
	SVTO	15	0709	0714	0729	S27 E11	8156	02	16.1	20	1F		3	E		101		
	LEAR	15	0711	0713	0724	S24 E14	8156	02	16.4	13	SF		3	E		26		
0030		15	07341	0736	0750	S24 E11	8156	02	16.2	16	SF					19		
	SVTO	15	0734	0736	0754	S26 E09	8156	02	16.0	20	SF		3	E		26		
	LEAR	15	0735	0736	0745	S23 E13	8156	02	16.3	10	SF		3	E		12		
0031	SVTO	15	0827	0830	0844	S27 E10	8156	02	16.1	17	SF		3	E		14		

H $\alpha$  SOLAR FLARES

FEBRUARY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	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)	
0032	SVTO	15	0944	0944	0952	S27 E10	8156	02 16.2	8	SF		3	E		10		
0033		15	1030	1033	1101	S26 E10	8156	02 16.2	31	SF					31		
	SVTO	15	1030	1033	1059	S27 E09	8156	02 16.1	29	SF		3	E		31		
	KANZ	15	1035E	1035U	1103	S25 E12	8156	02 16.4	28D	SF		2	C				
0034		15	11372	11452	1208	S26 E08	8156	02 16.1	31	SF					53		
	SVTO	15	1137	1145	1209	S26 E08	8156	02 16.1	32	SF		3	E		53		
	KANZ	15	1139	1147	1207	S25 E08	8156	02 16.1	28	SF		2	C				
0035	KANZ	15	1139	1139	1211	S25 E13	8156	02 16.5	32	SF		2	C				
0036	KANZ	15	1431	1443	1455	S28 E06	8156	02 16.1	24	SF		2	C				
		15	1607		1944	No Flare Patrol											
		15	2012		2051	No Flare Patrol											
		15	2100		2119	No Flare Patrol											
		15	2130		2400	No Flare Patrol											
		16	0000		0022	No Flare Patrol											
		16	0412		0729	No Flare Patrol											
		16	1942		1955	No Flare Patrol											
		16	2123		2322	No Flare Patrol											
		17	0254		0353	No Flare Patrol											
0037		17	0923	0953	1016	S26 W16	8156	02 16.1	53	SF					73		
	LEAR	17	0923	0953	1016	S27 W16	8156	02 16.1	53	SF		3	E		73		
	KANZ	17	0954E	0954U	1003D	S25 W15	8156	02 16.2	9D	SF		2	C				
0038		17	1053E	1109	1149	S26 W16	8156	02 16.2	56D	SF					18		
	SVTO	17	1053E	1109	1153	S26 W16	8156	02 16.2	60D	SF		2	E		26		
	RAMY	17	1105E	1106U	1145	S26 W15	8156	02 16.3	40D	SF		2	E		10		
0039	KANZ	17	1103	1107	1129D	S26 W14	8156	02 16.4	26D	SF		2	C				
		17	1832		1836	No Flare Patrol											
		17	1932		2023	No Flare Patrol											
		17	2145		2238	No Flare Patrol											
0040	LEAR	18	0634	0638	0649	S24 W06	8158	02 17.8	15	SF		3	E		42		
0041		18	09212	09243	0945	S23 W23	8156	02 16.6	24	SF					54		F
	LEAR	18	0921	0924	0945	S23 W24	8156	02 16.5	24	SF		3	E		54		F
	SVTO	18	0921	0924	0947	S22 W23	8156	02 16.6	26	SF		3	E		54		
	KANZ	18	0923	0927	0943	S24 W22	8156	02 16.7	20	SF		2	C				
0042	SVTO	18	1123	1124	1130	S22 W25	8156	02 16.5	7	SF		3	E		13		
0043	KHAR	18	1139U	1142U	1210D	S24 W27	8156	02 16.4	31U	1N		2	P	1144	280	3.3	E
0044		18	11355	1138*	1243	S25 W30	8156	02 16.1	68	1F					163		FH
	SVTO	18	1135	1138	1244	S24 W30	8156	02 16.2	69	1F		3	E		146		F
	KANZ	18	1135	1139	1243	S24 W28	8156	02 16.3	68	1F		2	C				
	RAMY	18	1140	1149	1242	S27 W31	8156	02 16.1	62	1F		3	E		180		FH
0045		18	15083	15083	1519	S23 W26	8156	02 16.6	11	SF					34		F
	RAMY	18	1508	1508	1519	S23 W26	8156	02 16.6	11	SF		4	E		34		F
	KANZ	18	1511	1511	1519D	S23 W25	8156	02 16.7	8D	SF		2	C				
0046	SVTO	18	1508	1523	1543	S22 W27	8156	02 16.5	35	SF		3	E		42		
0047	RAMY	18	1526	1527	1534	S23 W26	8156	02 16.6	8	SF		4	E		29		
0048	RAMY	18	1642	1652	1707	S23 W27	8156	02 16.6	25	SF		3	E		35		FH
		18	1758		1815	No Flare Patrol											
		18	1823		1900	No Flare Patrol											
		18	1907		2115	No Flare Patrol											
		18	2211		2245	No Flare Patrol											

H $\alpha$  SOLAR FLARES

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0049		19	05194	0527*	0552	S24	W39	8156	02	16.2	33	SF				64	0.4	D
	URUM	19	0519	0540	0553	S22	W38	8156	02	16.3	34	SF		C		32	0.4	D
	LEAR	19	0523	0527	0552	S27	W40	8156	02	16.1	29	SF	3	E		97		
0050	LEAR	19	0630	0630	0632	S27	W40	8156	02	16.1	2	SF	3	E		18		
0051		19	0716	0717	0721	S26	W38	8156	02	16.3	5	SF				18		
	KANZ	19	0716E	0716U	0719	S24	W35	8156	02	16.6	3D	SF	2	C				
	SVTO	19	0716	0717	0723	S27	W41	8156	02	16.1	7	SF	3	E		18		
0052		19	12381	1239	1246	S27	W44	8156	02	16.1	8	SF				19		
	SVTO	19	1238	1239	1248	S27	W44	8156	02	16.1	10	SF	3	E		22		
	RAMY	19	1239	1239	1243	S27	W44	8156	02	16.1	4	SF	4	E		16		
0053		19	14531	14543	1514	S23	W41	8156	02	16.5	21	SF				39		F
	SVTO	19	1453	1457	1518	S21	W40	8156	02	16.5	25	SF	3	E		48		F
	RAMY	19	1454	1454	1512	S27	W45	8156	02	16.1	18	SF	4	E		37		F
	HOLL	19	1454	1457	1511	S21	W39	8156	02	16.6	17	SF	3	E		33		
0054		19	1656	16574	1714	S22	W43	8156	02	16.4	18	SF				68		FH
	HOLL	19	1656	1657	1713	S21	W43	8156	02	16.4	17	SF	4	E		65		FH
	RAMY	19	1656	1701	1714	S23	W43	8156	02	16.4	18	SF	2	E		70		F
0055	HOLL	19	2320	2321	2323	S21	W44	8156	02	16.6	3	SF	3	E		19		
0056	LEAR	20	0123	0124	0130	S27	W51	8156	02	16.1	7	SF	3	E		43		
0057	LEAR	20	0303	0323	0329	S25	W48	8156	02	16.4	26	SF	3	E		15		
0058	URUM	20	1000	1016	1017D	S23	W52	8156	02	16.4	17D	SB		P		64	1.1	D
0059		20	10043	10071	1038	S26	W54	8156	02	16.2	34	SF				59		F
	KANZ	20	1004	1008	1036	S24	W53	8156	02	16.3	32	SF	2	C				
	SVTO	20	1007	1007	1041	S27	W55	8156	02	16.1	34	SF	3	E		59		F
0060	RAMY	20	1205	1211	1219	S25	W55	8156	02	16.2	14	SF	3	E		12		
0061		20	1234*	12463	1300	S23	W50	8156	02	16.7	26	SF				25		F
	RAMY	20	1234	1246	1303	S22	W51	8156	02	16.6	29	SF	3	E		25		F
	KANZ	20	1245	1249	1257	S24	W50	8156	02	16.7	12	SF	2	C				
0062	RAMY	20	1315	1318	1323	S21	W55	8156	02	16.3	8	SF	3	E		12		F
		20	1522		1538	No Flare Patrol												
		20	1626		1949	No Flare Patrol												
0063	RAMY	20	1736	1739	1758	S22	W57	8156	02	16.3	22	SF	3	E		30		F
		20	2110		2117	No Flare Patrol												
		20	2139		2141	No Flare Patrol												
		20	2155		2248	No Flare Patrol												
		21	2126		2138	No Flare Patrol												
0064		22	16032	16052	1616	S34	E36	8162	02	25.5	13	SF				16		
	HOLL	22	1603	1605	1615	S34	E36	8162	02	25.5	12	SF	3	E		16		
	RAMY	22	1605	1607	1618	S33	E37	8162	02	25.6	13	SF	4	E		15		
		23	1027		1108	No Flare Patrol												
0065	RAMY	23	1333	1333	1338	S18	W79	8158	02	17.5	5	SF	4	E		12		
0066		23	15451	15471	1550	S18	W81	8158	02	17.5	5	SF				14		
	RAMY	23	1545	1547	1552	S19	W80	8158	02	17.5	7	SF	4	E		15		
	HOLL	23	1546	1548	1549	S16	W82	8158	02	17.4	3	SF	3	E		12		
		24	0201		0223	No Flare Patrol												
0067		24	09273	0934	0942	N15	E08	8164	02	25.0	15	SF				43		F
	SVTO	24	0927	0931U	0953D	N15	E08	8164	02	25.0	26D	SF	3	E		43		F
	KANZ	24	0930	0934	0942	N15	E07	8164	02	24.9	12	SF	2	C				

FEBRUARY 1998

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	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)		
0068	24	10091	1010	1014	N15 E10	8164	02 25.2	5	SF								
	SVTO 24	1009	1010U	1023D	N15 E09	8164	02 25.1	14D	SF		3	E		29			F
	KANZ 24	1010	1010	1014	N15 E10	8164	02 25.2	4	SF		2	C		29			F
0069	KANZ 24	1042	1042	1050	N15 E10	8164	02 25.2	8	SF		2	C					
0070	SVTO 24	1043E	1045U	1123D	N15 E10	8164	02 25.2	40D	SF		3	E		28			F
0071	24	11422	11501	1201	N16 E09	8164	02 25.2	19	SF					30			FH
	KANZ 24	1142	1150	1202	N17 E08	8164	02 25.1	20	SF		2	C		30			FH
	RAMY 24	1144	1151	1200	N16 E10	8164	02 25.2	16	SF		3	E		30			HF
0072	RAMY 24	1238	1239	1246	N17 E08	8164	02 25.1	8	SF		4	E		24			H
0073	24	1338	13393	1346	N15 E06	8164	02 25.0	8	SF					22			F
	RAMY 24	1338	1339	1346	N15 E07	8164	02 25.1	8	SF		4	E		22			F
	KANZ 24	1338	1342	1346	N15 E05	8164	02 24.9	8	SF		2	C					
	24	2240		2337	No Flare Patrol												
	25	0101		0157	No Flare Patrol												
	25	0212		0349	No Flare Patrol												
	25	0508		0648	No Flare Patrol												
	25	0721		0747	No Flare Patrol												
	25	0929		0944	No Flare Patrol												
	25	0955		1007	No Flare Patrol												
	25	1009		1104	No Flare Patrol												
	25	2002		2037	No Flare Patrol												
	25	2046		2050	No Flare Patrol												
	25	2213		2244	No Flare Patrol												
	26	0101		0210	No Flare Patrol												
	26	0318		0444	No Flare Patrol												
	26	0545		0622	No Flare Patrol												
0074	26	1534*	1546*	1613	S26 W05	8167	02 26.3	39	SF					22			F
	KANZ 26	1534	1546	1610	S26 W05	8167	02 26.3	36	SF		2	C					
	RAMY 26	1547	1557	1613D	S26 W05	8167	02 26.3	26D	SF		3	E		13			F
	HOLL 26	1554E	1600	1616	S26 W05	8167	02 26.3	22D	SF		3	E		30			F
	26	2004		2018	No Flare Patrol												
	26	2147		2225	No Flare Patrol												
	26	2251		2303	No Flare Patrol												
	27	1640		1850	No Flare Patrol												
	27	2121		2129	No Flare Patrol												
0075	28	09261	09261	0932	S24 W02	8171	02 28.2	6	SF					12			
	SVTO 28	0926	0926	0933	S24 W02	8171	02 28.2	7	SF		3	E		12			
	KANZ 28	0927	0927	0931	S24 W01	8171	02 28.3	4	SF		2	C					
0076	HOLL 28	2339	2341U	2354	N16 W54	8164	02 24.9	15	SF		3	E		14			

"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