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Jan 93

H α S O L A R F L A R E S

JANUARY 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/ USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Region	Lat									Apparent (10-6 Disk)	Corr (Sq Deg)		
			01 0000		0027	No Flare Patrol													
0001	VORO	01	0220	0221	0226	N04	W80		12	26.2	6	SF		1	C	0221	36		D
0002	MITK	01	0501	0502	0504	N10	E29 7397	01	3.4	3	SN			E	0502	26	0.3	D	
			01 0633		0635	No Flare Patrol													
0003	KANZ	01	1152	1156	1204	S12	W58 7379	12	28.2	12	SN		2	C					
0004	PALE	01	1835E	1836U	1839D	S13	W60 7379	12	28.3	4D	SF B 5.8	3	E			20			
			01 2400		2400	No Flare Patrol													
			02 0000		0011	No Flare Patrol													
0005		02	23412	2345	2422	S13	W76 7379	12	28.3	41	1F C 8.4					88			
	LEAR	02	2341	2345	2422	S13	W79 7379	12	28.1	41	SF C 8.4	3	E			73			
	PALE	02	2343	2348U	2508D	S13	W73 7379	12	28.6	85D	1F	3	E			102			
		03	0618		0620	No Flare Patrol													
		03	1221		1249	No Flare Patrol													
		03	1538		1655	No Flare Patrol													
		03	1927		2203	No Flare Patrol													
		03	2205		2209	No Flare Patrol													
		03	2232		2343	No Flare Patrol													
		04	0404		0408	No Flare Patrol													
		04	0626		0636	No Flare Patrol													
		04	1711		1721	No Flare Patrol													
		04	2327		2358	No Flare Patrol													
		04	2400		2400	No Flare Patrol													
		05	0000		0000	No Flare Patrol													
		05	0002		0024	No Flare Patrol													
0006	MITK	05	0041	0042	0045	S07	W58 7388	12	31.7	4	SN			E	0042	59	1.2	D	
0007	MITK	05	0110	0111	0111	S07	W58 7388	12	31.7	1	SN			E	0111	66	1.3	D	
		05	0332		0334	No Flare Patrol													
		05	0339		0400	No Flare Patrol													
		05	0402		0459	No Flare Patrol													
		05	0527		0532	No Flare Patrol													
0008	LEAR	05	0530	0536	0539	S08	W63 7388	12	31.5	9	SF		3	E		27			
		05	0543		0544	No Flare Patrol													
0009	LEAR	05	0554	0558	0608	S08	W64 7388	12	31.4	14	SF B 5.3	3	E			55			
		05	0557		0614	No Flare Patrol													
		05	0616		0636	No Flare Patrol													
0010		05	1046*	1050*	1136	S08	W65 7388	12	31.6	50	SF					27			
	KANZ	05	1046	1050	1102	S07	W64 7388	12	31.6	16	SF		2	C					
	SVTO	05	1050	1140	1200	S09	W67 7388	12	31.4	70	SF		3	E		27			
	KANZ	05	1130	1134	1146	S07	W64 7388	12	31.7	16	SF		2	C					
0011	RAMY	05	1506	1508	1518	S11	E80 7391	01	11.6	12	SF C 1.3	3	E			28		F	
		05	1702		1722	No Flare Patrol													
0012	HOLL	05	2049	2051	2056	S12	E69 7391	01	11.1	7	SF		3	E		11			
		05	2335		2350	No Flare Patrol													
0013	LEAR	06	0101	0102	0110	S04	E13 7386	01	7.0	9	SF B 5.8	3	E			21		F	
		06	0409		0519	No Flare Patrol													
		06	0534		0635	No Flare Patrol													

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	Remarks
0014	LEAR	06	0627	0633	0636	S08 W79	7388	12	31.3	9	SF		3	E		19		
		06	0651	0737			No Flare Patrol											
		06	0739	0750			No Flare Patrol											
0015	HTPR	06	1452	1454	1510	S02 E05	7386	01	7.0	18	SF			C	1454	40	0.4	
		06	2053	2130			No Flare Patrol											
		06	2314	2400			No Flare Patrol											
		07	0000	0000			No Flare Patrol											
		07	0003	0401			No Flare Patrol											
		07	0403	0459			No Flare Patrol											
		07	0559	0605			No Flare Patrol											
0016	LEAR	07	0752	0757	0809	S06 W01	7386	01	7.2	17	SF		3	E		32		F
0017		07	0809	0842	1011	S06 W02	7386	01	7.2	122	1N C 2.6					194		EF
	LEAR	07	0809	0842	1018	S08 W01	7386	01	7.3	129	1N C 2.6	3	E			234		FE
	SVTO	07	0832E	0842U	1004	S04 W02	7386	01	7.2	92D	1F		2	E		155		F
0018		07	0917	0918	0929	S24 E00	7387	01	7.4	12	SF					31		F
	LEAR	07	0917	0918	0929	S23 E03	7387	01	7.6	12	SF		3	E		40		
	SVTO	07	0917	0919	0929	S24 W02	7387	01	7.2	12	SF		3	E		22		F
0019	HTPR	07	1339		1341D	S22 W05	7387	01	7.2	2D	SN			C	1341	60	0.6	
0020	HOLL	07	2048	2054	2128	S11 E38	7391	01	10.7	40	SF C 1.1	3	E			36		F
		07	2141	2144			No Flare Patrol											
		07	2146	2149			No Flare Patrol											
		07	2321	2400			No Flare Patrol											
		08	0000	0019			No Flare Patrol											
0021	SVTO	08	1019	1022	1024	S17 W12	7394	01	7.5	5	SF B 6.9	3	E			14		H
0022	HTPR	08	1217	1225	1245	S17 W14	7394	01	7.4	28	SN			C	1225	40	0.4	
0023	SVTO	08	1327	1335	1346	S16 W11	7394	01	7.7	19	SF		3	E		16		
		08	1516	1522			No Flare Patrol											
		08	1529	1537			No Flare Patrol											
		08	1539	1549			No Flare Patrol											
		08	1602	1656			No Flare Patrol											
		08	2134	2141			No Flare Patrol											
		08	2143	2150			No Flare Patrol											
		08	2256	2312			No Flare Patrol											
		08	2332	2400			No Flare Patrol											
		09	0000	0002			No Flare Patrol											
		09	0004	0029			No Flare Patrol											
0024		09	10463	1049	1110	S16 W30	7394	01	7.2	24	SF					60	0.7	
	HTPR	09	1046	1049	1120	S16 W30	7394	01	7.2	34	SF			C	1049	60	0.7	
	KANZ	09	1049	1049	1101	S16 W29	7394	01	7.2	12	SF		2	C				
0025	HTPR	09	1411	1415	1420	S25 W10	7389	01	8.8	9	SF			C	1415	20	0.2	D
0026	HTPR	09	1425	1427	1437	S10 E21	7391	01	11.2	12	SF			C	1427	20	0.2	DH
0027	HOLL	09	2152	2204	2225D	S02 W41	7386	01	6.8	33D	SF		3	E		28		F
		09	2226		2343		No Flare Patrol											
0028	LEAR	10	0642	0642	0646	S23 W35	7387	01	7.6	4	SF B 9.1	3	E			96		F
0029	KANZ	10	0928	0932	0936	S24 W43	7387	01	7.1	8	SF		2	C				
0030		10	13005	13333	1417	S19 W38	7394	01	7.6	77	1F C 6.3					114		FHU
	SVTO	10	1300	1329U	1400D	S19 W39	7394	01	7.6	60D	1F		3	E		155		F
	KANZ	10	1300	1336	1400D	S20 W38	7394	01	7.6	60D	1F		2	C				U
	RAMY	10	1305	1333	1417	S19 W38	7394	01	7.6	72	SF C 6.3	3	E			74		FH

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement (10-6 Disk)	Apparent (Sq Deg)	Corr (Sq Deg)	Remarks
		10 2102		2129		No Flare Patrol												
		10 2131		2152		No Flare Patrol												
		10 2304		2356		No Flare Patrol												
		11 0000		0004		No Flare Patrol												
		11 0006		0130		No Flare Patrol												
0031	PALE	11 0043	0044	0048	N06	E02 7399	01	11.2	5	SF	C 1.7	3	E		18			
0032	PALE	11 0222	0230	0239	N06	E01 7399	01	11.2	17	SF	C 2.0	3	E		18			
0033	PALE	11 0258	0310	0317	N06	E00 7399	01	11.1	19	SF	B 8.1	3	E		67			
0034	WATU	11 0414	0424	0441	S17	W49 7394	01	7.4	27	SF			C	0424	20	0.3	D	
		11 0544		0545		No Flare Patrol												
		11 0601		0609		No Flare Patrol												
		11 1211		1319		No Flare Patrol												
0035	SVTO	11 1324E	1332U	1336	S16	W54 7394	01	7.5	120	SF		1	E		20			
		11 1513		1540		No Flare Patrol												
		11 1542		1552		No Flare Patrol												
		11 1649		1724		No Flare Patrol												
0036	HOLL	11 1738E	1758U	1919D	S16	W56 7394	01	7.5	101D	SF	C 3.2	1	E		88		F	
		11 1903		1938		No Flare Patrol												
0037	HOLL	11 2037	2045U	2132	S12	W09 7391	01	11.2	55	SF	C 1.1	2	E		31			
		11 2342		2357		No Flare Patrol												
0038	LEAR	12 0602	0624	0650	S12	W14 7391	01	11.2	48	SF	C 1.9	3	E		69		F	
		12 0612		0619		No Flare Patrol												
0039		12 08552	08598	0924	S13	W16 7391	01	11.2	29	SN	C 3.4				61		FH	
	SVTO	12 0855	0901	0937	S14	W15 7391	01	11.2	42	SF	C 3.4	3	E		67		FH	
	LEAR	12 0856	0859	0925	S11	W18 7391	01	11.0	29	SF		3	E		55		F	
	KANZ	12 0856	0900	0920	S14	W16 7391	01	11.2	24	SN		2	C					
	ISTA	12 0857	0907	0914	S12	W15 7391	01	11.2	17	1N			P				F	
0040	SVTO	12 0913	0921	0932	N06	W18 7399	01	11.0	19	SF		3	E		10		F	
0041		12 09533	09563	1004	S12	W14 7391	01	11.3	11	SF					17		F	
	SVTO	12 0953	0959	1004	S12	W14 7391	01	11.3	11	SF		3	E		17		F	
	KANZ	12 0956	0956	10120	S12	W15 7391	01	11.3	160	SF		2	C					
0042	SVTO	12 1028	1041	1121	S21	W66 7394	01	7.4	53	SF	C 3.0	3	E		54		F	
0043	SVTO	12 1223	1227	1253	S10	E01 7400	01	12.6	30	SF	B 8.6	3	E		25		F	
0044	SVTO	12 1432	1437	1454	S12	W18 7391	01	11.2	22	SN	C 6.1	2	E		38		F	
		12 1516		1534		No Flare Patrol												
0045	HOLL	12 1737	1739	1748	S16	W66 7394	01	7.7	11	SF		3	E		17		F	
0046	HOLL	12 1833	1841	1904	S15	W69 7394	01	7.5	31	SF		3	E		26		F	
		12 2019		2026		No Flare Patrol												
		12 2317		2353		No Flare Patrol												
0047	VORO	13 0234	0236	0244	S18	W75 7394	01	7.4	10	SF		1	C	0236	54		DIJ	
0048	PALE	13 0257E	0314	0333D	S08	W77 7386	01	7.3	360	1F	C 9.2	3	E		120		UY	
0049	LEAR	13 0421	0422	0424	S07	W73 7386	01	7.7	3	SF		3	E		20		F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Corr	Remarks			
								USAF Region						Mo	Day			(Min)	Opt	Xray
0050	LEAR	13	0629	0629	0636	N05	W29	7399	01	11.1	7	SF		3	E		25			
0051	SVTO	13	0823E	0825U	0830	S17	W90	7394	01	6.5	7D	SF C	2.0	2	E		30			
0052	LEAR	13	0829E	0914U	0940	S09	W09	7400	01	12.7	71D	SF C	3.3	2	E		84			
0053	HTPR	13	1155		1206D	S10	W11	7400	01	12.7	11D	SF			C			HT		
0054		13	1212	1214	1240	S14	W32	7391	01	11.1	28	SN C	3.4				90	1.8	BF	
	SVTO	13	1212	1214	1240	S14	W30	7391	01	11.2	28	SF C	3.4	3	E		30		F	
	HTPR	13	1230E		1230D	S13	W35	7391	01	10.9	28D	SN			C	1230	150	1.8	B	
0055	SVTO	13	1251	1251	1303	S15	W30	7391	01	11.3	12	SF		3	E		13		F	
		13	2255		2320	No Flare Patrol														
		13	2322		2333	No Flare Patrol														
0056	PALE	14	0053	0055	0059	S15	W36	7391	01	11.3	6	SF		3	E		15			
0057	KANZ	14	0732	0740	0744D	S13	E69	7401	01	19.5	12D	SF		2	C					
		14	2132		2149	No Flare Patrol														
		14	2151		2154	No Flare Patrol														
		14	2309		2400	No Flare Patrol														
		15	0000		0008	No Flare Patrol														
		15	0059		0108	No Flare Patrol														
		15	0327		0337	No Flare Patrol														
		15	0342		0348	No Flare Patrol														
		15	0444		0455	No Flare Patrol														
		15	0500		0529	No Flare Patrol														
		15	0607		0614	No Flare Patrol														
0058	KANZ	15	1116	1116	1132	S14	W59	7391	01	11.0	16	SF		2	C					
0059	KANZ	15	1116	1124	1128	N11	E74	7403	01	21.0	12	SF		2	C					
0060	KANZ	15	1337	1337U	1337D	N12	W15	7404	01	14.4	12D	SF		2	C					
0061	HOLL	15	2035	2036	2047	N12	E68	7403	01	21.0	12	SF B	5.4	2	E		48			
		15	2321		2400	No Flare Patrol														
0062	PALE	15	2355	2355	2355D	N04	W67	7399	01	11.0	12D	SF		3	E		22			
		16	0000		0008	No Flare Patrol														
		16	0010		0115	No Flare Patrol														
0063		16	0049	0049	0056	N06	W66	7399	01	11.1	7	SF					23			
	PALE	16	0049	0049	0054	N06	W66	7399	01	11.1	5	SF		3	E		24			
	LEAR	16	0049	0049	0059	N06	W66	7399	01	11.1	10	SF		3	E		22			
0064	PALE	16	0101	0101	0107	N04	W68	7399	01	10.9	6	SF		3	E		14			
		16	0117		0130	No Flare Patrol														
0065		16	0126	0128	0138	N13	E68	7403	01	21.2	12	SF C	1.3				94			
	LEAR	16	0126	0128	0138	N12	E67	7403	01	21.1	12	SF C	1.3	3	E		90			
	PALE	16	0129E	0129U	0140D	N14	E69	7403	01	21.3	11D	SF		2	E		97			
		16	0134		0138	No Flare Patrol														
		16	0154		0407	No Flare Patrol														
		16	0409		0421	No Flare Patrol														
		16	0450		0456	No Flare Patrol														
		16	0526		0545	No Flare Patrol														
		16	0552		0612	No Flare Patrol														
0066	LEAR	16	0612	0619	0623	S09	W48	7400	01	12.6	11	SF B	7.5	3	E		51		F	
		16	0622		0632	No Flare Patrol														

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H α SOLAR FLARES

JANUARY 1993

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	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0067	LEAR	16	0718	0718	0723	S07	W47	7400	01	12.8	5	SF		3	E		60		F
0068		16	07477	07532	0810	S08	W50	7400	01	12.6	23	SF C 3.0					55		EF
	KANZ	16	0747	0755	0815	S09	W49	7400	01	12.6	28	SF		2	C				
	LEAR	16	0748	0753	0817	S09	W50	7400	01	12.6	29	SF C 3.0		3	E		63		F
	SVTO	16	0752E	0755U	0807	S06	W50	7400	01	12.6	15D	SF		3	E		47		F
	ISTA	16	0754		0802	S10	W50	7400	01	12.6	8	1F			P				E
0069		16	0919*	0931*	0950	S26	E41	7402	01	19.6	31	SF					30		FH
	KANZ	16	0919	0931	0951	S27	E40	7402	01	19.5	32	SF		2	C				
	LEAR	16	0931	0937	0942	S26	E41	7402	01	19.6	11	SF		3	E		31		F
	SVTO	16	0932	0942	0956	S26	E43	7402	01	19.7	24	SF		3	E		29		H
0070		16	09473	09519	1020	S09	W50	7400	01	12.6	33	1F C 4.1					114	1.4	DF
	SVTO	16	0947	0957	1023	S09	W50	7400	01	12.6	36	1F C 4.1		3	E		120		F
	KANZ	16	0947	0959	1019	S09	W50	7400	01	12.6	32	1F		2	C				
	LEAR	16	0948	1000	1017	S10	W52	7400	01	12.5	29	1F		3	E		136		
	BUCA	16	0950	0951	1004D	S09	W50	7400	01	12.6	14D	SN			C	0951	86	1.4	D
0071		16	10092	10114	1022	S26	E41	7402	01	19.6	13	SF					16		F
	SVTO	16	1009	1015	1023	S26	E43	7402	01	19.8	14	SF		3	E		17		
	LEAR	16	1011	1011	1015	S26	E40	7402	01	19.5	4	SF		3	E		15		F
	KANZ	16	1011	1011	1027	S27	E40	7402	01	19.5	16	SF		2	C				
		16	1413		1422	No Flare Patrol													
0072	RAMY	16	1552	1552	1556	S09	W53	7400	01	12.7	4	SF C 1.3		3	E		12		F
0073	HOLL	16	1643E	1644U	1651	N12	E58	7403	01	21.1	8D	SF B 9.0		3	E		65		
0074	HOLL	16	1929	1937	2010	S12	E44	7401	01	20.1	41	SF B 9.4		3	E		25		F
		16	2319		2334	No Flare Patrol													
		16	2343		2400	No Flare Patrol													
0075	LEAR	16	2344	2346	2355	S11	W59	7400	01	12.6	11	SF		3	E		45		
		17	0000		0001	No Flare Patrol													
0076		17	00283	00302	0037	S09	W58	7400	01	12.7	9	SN C 1.1					27	0.6	DEF
	MITK	17	0028	0030	0031	S08	W57	7400	01	12.7	3	SN			E	0030	33	0.6	D
	LEAR	17	0028	0032	0046	S10	W59	7400	01	12.6	18	SF C 1.1		3	E		22		F
	MITK	17	0031	0032	0034	S08	W57	7400	01	12.7	3	SN			E	0032	26	0.5	E
0077	LEAR	17	0055	0055	0105	S07	W57	7400	01	12.8	10	SF C 1.0		3	E		22		
0078	MITK	17	0118	0119	0119	S09	W58	7400	01	12.7	1	SN			E	0119	33	0.6	E
0079	LEAR	17	0136	0137	0142	N11	W42	7404	01	13.9	6	SF		3	E		10		
0080		17	02122	0217	0224	S10	W60	7400	01	12.6	12	1N C 1.0					118	2.9	DF
	LEAR	17	0212	0217	0228	S11	W61	7400	01	12.5	16	SF C 1.0		3	E		85		F
	MITK	17	0214	0217	0221	S08	W58	7400	01	12.7	7	1B			E	0217	150	2.9	D
0081		17	04475	0455	0514	S27	E30	7402	01	19.5	27	SN B 8.5					64	0.7	EF
	LEAR	17	0447	0455	0525	S27	E30	7402	01	19.5	38	SF B 8.5		3	E		75		F
	MITK	17	0452	0455	0503	S27	E30	7402	01	19.5	11	SN			E	0455	53	0.7	E
0082		17	09457	0953	1004	S26	E27	7402	01	19.5	19	SF C 1.3					26		
	KANZ	17	0945	0953	1005	S27	E28	7402	01	19.6	20	SF		2	C				
	LEAR	17	0952	0953	1003	S26	E26	7402	01	19.4	11	SF C 1.3		3	E		26		
0083	KANZ	17	1221	1221	1225	S13	E30	7401	01	19.8	4	SF			C				
0084		17	14312	1432	1441	S08	W64	7400	01	12.8	10	SF C 5.0					29		F
	RAMY	17	1431	1432	1441	S09	W65	7400	01	12.7	10	SF C 5.0		3	E		29		F
	KANZ	17	1433	1433U	1441D	S08	W63	7400	01	12.9	8D	SF		2	C				
0085	KANZ	17	1433	1433U	1441D	N13	W47	7404	01	14.1	8D	SF		2	C				

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks			
																Apparent (10-6 Disk)	Corr (Sq Deg)				
		17 1642		1703	No Flare Patrol																
0086	RAMY	17 1720	1720	1723	S09 W66	7400	01	12.8	3	SF	C	1.1	3	E		22					
		17 1848		1954	No Flare Patrol																
		17 2009		2124	No Flare Patrol																
		17 2126		2152	No Flare Patrol																
		17 2154		2156	No Flare Patrol																
		17 2318		2400	No Flare Patrol																
		18 0000		0003	No Flare Patrol																
		18 0020		0051	No Flare Patrol																
		18 0121		0132	No Flare Patrol																
		18 0138		0143	No Flare Patrol																
0087	LEAR	18 0212	0214	0238	S27 E19	7402	01	19.6	26	SF	B	4.8	3	E		38					
		18 0302		0310	No Flare Patrol																
		18 0321		0458	No Flare Patrol																
		18 0510		0550	No Flare Patrol																
0088	LEAR	18 0539	0541	0545	S12 E22	7401	01	19.9	6	SF	B	5.9	3	E		30		F			
0089	LEAR	18 0721	0721	0729	S13 E18	7401	01	19.7	8	SF	B	6.4	3	E		27		F			
0090	KANZ	18 1304	1304	1308	S11 E84	7406	01	24.9	4	SF			2	C							
		18 1807		1820	No Flare Patrol																
		18 2334		2339	No Flare Patrol																
		18 2341		2400	No Flare Patrol																
		19 0619		0631	No Flare Patrol																
		19 0633		0719	No Flare Patrol																
0091	HOLL	19 1716	1717	1736	S25 W04	7402	01	19.4	20	SF			3	E		21		F			
		19 2327		2335	No Flare Patrol																
0092	MITK	20 0215	0215	0219	S13 E64	7406	01	24.9	4	SB				E	0215	84	2.0	D			
		20 0541		0603	No Flare Patrol																
0093		20 13102	13111	1332	S12 E59	7406	01	25.0	22	SN						80	1.6				
	HTPR	20 1310	1311	1335	S12 E60	7406	01	25.1	25	SN				C	1311	80	1.6				
	KANZ	20 1312	1312	1328	S12 E58	7406	01	24.9	16	SN			2	C							
0094	HTPR	20 1516	1519	1540	S27 W15	7402	01	19.5	24	SF				C	1519	30	0.3	E			
0095	HTPR	20 1524	1536	1550D	S12 E60	7406	01	25.2	26D	SN				C	1536	40	0.8	E			
		20 1552		1608	No Flare Patrol																
		20 1956		2001	No Flare Patrol																
		20 2258		2316	No Flare Patrol																
0096	LEAR	20 2332	2332	2350	N16 E06	7403	01	21.4	18	SF	B	3.4	3	E		21		F			
		20 2336		2349	No Flare Patrol																
0097	LEAR	21 0115	0139	0142	S14 W21	7401	01	19.5	27	SF	B	2.0	3	E		24		F			
0098	HTPR	21 1433	1438	1455	S13 W27	7401	01	19.6	22	SF				C	1438	80	0.9	H			
		21 2316		2322	No Flare Patrol																
		21 2324		2341	No Flare Patrol																
		22 2003		2015	No Flare Patrol																
		22 2017		2104	No Flare Patrol																
		22 2343		2352	No Flare Patrol																
		23 0000		0015	No Flare Patrol																
		23 0017		0029	No Flare Patrol																
		23 0301		0348	No Flare Patrol																
		23 0414		0459	No Flare Patrol																

H α SOLAR FLARES

JANUARY 1993

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
						Lat	CMD	Region									Apparent (10-6 Disk)	Corr (Sq Deg)			
0099	KANZ	23	1220	1220	1224	S12	W52	7401	01	19.6	4	SF		2	C						
0100		23	12315	12382	1248	N17	W29	7403	01	21.3	17	SF B 2.3				1238	20	0.3	FH		
	HTPR	23	1231	1238	1247	N17	W30	7403	01	21.2	16	SF		C			20	0.3			
	SVTO	23	1233	1239	1248	N16	W30	7403	01	21.2	15	SF B 2.3	3	E			19		FH		
	KANZ	23	1236	1240	1248	N17	W28	7403	01	21.4	12	SF	2	C							
		23	1501		1503	No Flare Patrol															
		23	2332		2400	No Flare Patrol															
		24	0000		0011	No Flare Patrol															
		24	0055		0108	No Flare Patrol															
		24	0401		0412	No Flare Patrol															
		24	0414		0627	No Flare Patrol															
0101	LEAR	24	0515	0517	0521	N14	W40	7403	01	21.2	6	SF B 4.0	3	E			32				
0102	ISTA	24	0828		0929	S05	E44	7407	01	27.6	61	1F		P					F		
		24	1531		1554	No Flare Patrol															
		24	1556		1605	No Flare Patrol															
		24	1616		1630	No Flare Patrol															
0103		24	17131	17132	1734	N16	W42	7403	01	21.5	21	SF B 2.5					18		FH		
	HOLL	24	1713	1713	1730	N17	W42	7403	01	21.5	17	SF	3	E			25		F		
	RAMY	24	1714	1715	1737	N16	W43	7403	01	21.4	23	SF B 2.5	3	E			11		FH		
		24	1827		1838	No Flare Patrol															
0104	RAMY	24	2026	2028	2035	N09	W61	7408	01	20.3	9	SF		3	E		22				
0105		24	21061	2114*	2236	N10	W62	7408	01	20.2	90	SF					44		FS		
	RAMY	24	2106	2114	2155D	N09	W62	7408	01	20.2	49D	SF	3	E			12				
	HOLL	24	2107	2204	2236	N11	W62	7408	01	20.2	89	SF	3	E			77		FS		
		24	2305		2400	No Flare Patrol															
		25	0000		0011	No Flare Patrol															
0106	VORO	25	0033	0034	0038	N13	W55	7403	01	20.9	5	1N		1	C	0034	99	2.2	DIJ		
0107	PALE	25	0121	0123	0129	N08	W64	7408	01	20.2	8	SF B 4.1	3	E			21				
0108	KANZ	25	0744E	0744U	0752	N09	W68	7408	01	20.2	8D	SF		2	C						
0109	SVTO	25	1105	1131	1145	N08	W71	7408	01	20.1	40	SF		3	E		12		FH		
0110	SVTO	25	1221	1228	1236	N08	W72	7408	01	20.1	15	SF		3	E		10		F		
		25	1431		1455	No Flare Patrol															
		25	2316		2327	No Flare Patrol															
		25	2336		2400	No Flare Patrol															
		26	0000		0017	No Flare Patrol															
		26	0019		0032	No Flare Patrol															
		26	0034		0243	No Flare Patrol															
		26	0352		0353	No Flare Patrol															
		26	0405		0406	No Flare Patrol															
		26	0415		0429	No Flare Patrol															
		26	0612		0626	No Flare Patrol															
		26	2301		2354	No Flare Patrol															
		26	2356		2400	No Flare Patrol															
		27	0110		0112	No Flare Patrol															
		27	0123		0131	No Flare Patrol															
		27	0302		0306	No Flare Patrol															
		27	0404		0414	No Flare Patrol															
		27	0416		0506	No Flare Patrol															
	0111	HTPR	27	0832E	0922	1045	S13	W17	7411	01	26.1	133D	1F		C	0922	250	2.6	FT		
			27	0904		0919	No Flare Patrol														
		27	0923		0939	No Flare Patrol															

H α SOLAR FLARES11
Jan 93

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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)	
0112	HTPR	27	1254	1350	1356	N13	E78	7413	02	2.4	62	SF			C	1350			G
		27	2042		2046			No Flare Patrol											
		27	2105		2111			No Flare Patrol											
		27	2134		2159			No Flare Patrol											
		27	2201		2203			No Flare Patrol											
		27	2205		2335			No Flare Patrol											
		27	2354		2400			No Flare Patrol											
		28	0000		0019			No Flare Patrol											
		28	0021		0141			No Flare Patrol											
0113		28	13171	13172	1323	S13	W32	7411	01	26.1	6	SN B 5.9					84	1.8	EFKT
	SVTO	28	1317	1317	1323	S13	W32	7411	01	26.1	6	SF B 5.9	3	E			18		F
	HTPR	28	1318	1319	14430	S13	W33	7411	01	26.1	850	SN		C		1319	150	1.8	EKT
0114	HTPR	28	1353	1359	1410	S20	W64	7403C	01	23.7	17	SF			C	1359	30	0.7	DK
0115		29	1001	0939*	1051	S12	W47	7411	01	25.9	50	SF					80	1.2	EK
	HTPR	29	0939E	0939	11020	S12	W46	7411	01	25.9	830	SF		C		0939	60	0.8	K
	HTPR	29	1001	1033	1051	S12	W49	7411	01	25.7	50	SN		C		1033	100	1.5	E
	KANZ	29	1020E	1033	10410	S13	W47	7411	01	25.9	210	SF		2	C				
0116	HOLL	29	2054	2105	2136	S13	W55	7411	01	25.7	42	SF B 7.9	3	E			88		F
0117		30	01161	0118	0126	S11	W52	7411	01	26.1	10	1F B 8.1					63	2.1	DIJ
	VORO	30	0116	0118	0130	S10	W55	7411	01	25.9	14	1F		1	C	0118	116	2.1	DIJ
	LEAR	30	0117	0118	0122	S12	W50	7411	01	26.3	5	SF B 8.1	3	E			10		
0118	PALE	30	0216	0216	0219	S17	E51	7412	02	3.0	3	SF B 4.9	3	E			12		
0119	RAMY	30	1352	1353	1358	S10	W60	7411	01	26.1	6	SF B 6.0	3	E			24		E
		30	1605		1606			No Flare Patrol											
0120	KHAR	31	0947	0953U	1000	S13	E90	7416	02	7.2	13	SN		2	P	0953			H
0121		31	0957	0957	1006	S22	E48		02	4.1	9	SF							H
	KHAR	31	0957		1003	S23	E48		02	4.1	6	SF		2	P	0957			H
	KANZ	31	0957	0957	1009	S22	E47		02	4.0	12	SF		2	C				
		31	2334		2400			No Flare Patrol											

"Remarks"

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.

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.

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