

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	(10 ⁻⁶ Disk)	(Sq Deg)	
0029	HTPR	03	1238	1240	1241	S11	E59	4305	09	8.0	3	SF			C	1240	50	1.0	
		03	1542		1546	No Flare Patrol													
0030		03	2230*	2235*	2407	S09	E37	4303	09	6.7	97	1N					188	2.6	EJSU
	HOLL	03	2230	2235	2434	S09	E37	4303	09	6.7	124	SB		3	C		171		US
	VORO	03	2235E		2320D	S09	E37	4303	09	6.7	45D	1N			C	2246	224	3.0	EJ
	PEKG	03	2330	2335	2340	S08	E36	4303	09	6.7	10	1F			C	2335	168	2.2	U
0031	HOLL	03	2343	2343	2359	S18	W57		08	30.7	16	SF		3	C		13		
		04	0159		0211	No Flare Patrol													
		04	0308		0309	No Flare Patrol													
0032		04	0349I	0352S	0414	N10	E04	4304	09	4.4	25	SN					58	.9	EF
	LEAR	04	0349	0352	0407	N10	E05	4304	09	4.5	18	SF		3	C		32		F
	PEKG	04	0350	0355	0420	N10	E04	4304	09	4.5	30	SN			C	0355	84	.9	E
0033	PEKG	04	0452	0501	0525	N09	E04	4304	09	4.5	33	SF			C	0501	168	1.7	E
0034		04	0545A	0550A	0619	N10	E03	4304	09	4.5	34	SF					96	1.2	DEF
	PEKG	04	0545	0554	0635	N10	E03	4304	09	4.5	50	SN			C	0554	84	.9	E
	LEAR	04	0549	0550	0603	N10	E03	4304	09	4.5	14	SF		3	C		44		F
	CATA	04	0550E	0550	0600D	N09	E03	4304	09	4.5	10D	S		2	P	0550	169	1.7	
	ABST	04	0551E	0552	0613D	N10	E04	4304	09	4.5	22D	SF			P	0552	87	.9	D
0035	KHAR	04	0945E		1020D	N09	E00	4304	09	4.4	35D	SN			V	0947			E
0036	HOLL	04	1408	1414	1428	N14	E16	4301	09	5.8	20	SF		3	C		42		
0037	HOLL	04	1815	1818	1822	N11	W02	4304	09	4.6	7	SF		3	C		30		F
0038	HOLL	04	1838	1839	1858	N11	W03	4304	09	4.5	20	SF		3	C		30		F
0039		04	1859	1909	1914	N10	W03	4304	09	4.6	15	SN					46		
	HOLL	04	1859	1909	1913	N11	W03	4304	09	4.6	14	SN		3	C		45		
	PALE	04	1904E	1909	1914	N10	W03	4304	09	4.6	10D	SF		3	C		48		
0040	HOLL	04	2049	2051	2057	N11	W04	4304	09	4.6	8	SB		3	C		45		
0041	HOLL	04	2111	2112	2123	N11	W06	4304	09	4.4	12	SN		3	C		35		F
0042	HOLL	04	2136	2139	2145	N11	W04	4304	09	4.6	9	SN		3	C		33		F
		04	2317		2322	No Flare Patrol													
		05	0300		0306	No Flare Patrol													
0043	PURP	05	0305E	0305	0305D	N09	W07	4304	09	4.6	9D	SB			P	0305	90	.9	
0044	LEAR	05	0611	0612	0622	N09	W08	4304	09	4.6	11	SF		3	C		46		E
0045	ABST	05	0726E	0726	0740D	N08	W12	4304	09	4.4	14D	1F			P	0740	279	2.9	F
0046	KHAR	05	0744E		0809D	S16	W77		08	30.6	25D	SF			C	0748			D
0047	KHAR	05	0803E		0812D	S11	E39	4305	09	8.3	9D	SF			V	0805			
0048		05	0822B	0823*	0832	N08	W11	4304	09	4.5	10	SF					17	.2	DEKL
	LEAR	05	0822	0823	0826	N10	W11	4304	09	4.5	4	SF		3	C		22		E
	KHAR	05	0826E	0832	0842D	N07	W12	4304	09	4.4	16D	SN			P	0832	20	.2	EKL
	KANZ	05	0830	0834	0838	N09	W10	4304	09	4.6	8	SF		2					
	KHAR	05	0902E	0906	0909D	N07	W12	4304	09	4.5	7D	SF			P	0906	10	.1	D
0049		05	1009E	1030S	1109D	N12	E00	4301	09	5.4	60D	1N					188	2.1	EK
	KHAR	05	1009E	1030	1109D	N12	E03	4301	09	5.6	60D	1N			P	1032	180	2.2	EK
	CATA	05	1025E	1035	1040D	N11	W03	4301	09	5.2	15D	1		2	P	1035	197	2.0	
0050	KHAR	05	1009E	1009	1016D	N08	W14	4304	09	4.4	7D	SF			P	1009	10	.1	

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																(10 ⁻⁶ Disk)	Apparent Corr (Sq Deg)	
0051	KHAR	05	1102E	1102	1106D	N09	W14	4304	09	4.4	4D	SF		P	1102	10	.1	
0052		05	11064	1110*	1143	N13	E04	4301	09	5.8	37	SF				93		
	KANZ	05	1106	1110	1145	N15	E06	4301	09	5.9	39	SF						
	KANZ	05	1110	1122	1153	N12	E02	4301	09	5.6	43	SF			2			
	RAMY	05	1113E	1120U	1130	N13	E04	4301	09	5.8	17D	SF		C		93		
0053	RAMY	05	1342	1352	1405	S07	E62	4307	09	10.2	23	SF		C		21		
0054	KANZ	05	1541			S18	W77		08	30.9		SB			2			
		05	1542		1555	No Flare Patrol												
0055	RAMY	05	1814	1827	1835	N10	W17	4304	09	4.5	21	SF		C		26		F
		05	1950		2005	No Flare Patrol												
0056	PALE	05	2007	2009	2020	S22	W81		08	30.7	13	SN C	5.0	C		95		
0057	PALE	05	2017	2022U	2023D	N10	W17	4304	09	4.6	6D	SF		C		45		F
		05	2024		2027	No Flare Patrol												
		05	2103		2119	No Flare Patrol												
		05	2129		2144	No Flare Patrol												
0058	CULG	05	2214	2215	2218	S10	E32	4305	09	8.3	4	SF		C	2215	40	.4	F
0059	HOLL	05	2230	2239	2255	N08	W18	4304	09	4.6	25	SF		C		44		
0060	CULG	06	0109	0114	0120	N07	W21	4304	09	4.5	11	SN		C	0114	110	1.1	FJ
0061		06	0535	05384	0550	N06	W23	4304	09	4.5	15	SN				60	.6	EF
	CULG	06	0535	0538	0551	N06	W23	4304	09	4.5	16	SN		C	0538	60	.6	F
	PEKG	06	0536E	0542	0550	N06	W23	4304	09	4.5	14D	SN		C	0542	59	.6	E
0062	BUCA	06	0625		0635	N10	W24	4304	09	4.5	10	SF		P	0630	43	.5	D
0063		06	1041	10464	1101	N06	W25	4304	09	4.6	20	SF				38	.4	EL
	CATA	06	1040E	1050	1145D	N06	W25	4304	09	4.6	65D	S		1	P	1050	84	1.0
	HTPR	06	1041	1046	1101	N07	W24	4304	09	4.6	20	SF		C	1046	10	.1	
	KHAR	06	1044E	1047	1100D	N05	W26	4304	09	4.5	16D	SF		P	1047	20	.2	EL
0064		06	1221*	1224*	1256	N06	W25	4304	09	4.6	35	SF				10	.1	
	HTPR	06	1221	1224	1232	N07	W25	4304	09	4.6	11	SF		C	1224	10	.1	
	HTPR	06	1239	1241	1307	N05	W26	4304	09	4.6	28	SN		C	1241	10	.1	
	HTPR	06	1241	1242	1308	N07	W25	4304	09	4.6	27	SF		C	1242	10	.1	
0065	HTPR	06	1323	1327	1340	N07	W25	4304	09	4.7	17	SN		C	1327	20	.2	
0066	HTPR	06	1608	1610	1616	S10	E23	4305	09	8.4	8	SB		C	1610	40	.4	E
0067	ABST	07	0515	0517	0521	N13	W33	4304	09	4.7	6	SF		C	0517	87	1.1	D
0068	ABST	07	0542E	0544	0613D	N10	W38	4304	09	4.4	31D	SF		P	0544	87	1.1	D
0069	ISTA	07	0605		0615	S10	E08	4305	09	7.8	10	SN						CF
0070	HTPR	07	1137	1140	1207	N07	W39	4304	09	4.6	30	SF		C	1140	30	.4	E
0071	HTPR	07	1216	1222	1233	N07	W39	4304	09	4.6	17	SF		C	1222	10	.1	
0072	RAMY	07	1311	1311	1324	N08	W42	4304	09	4.4	13	SF		C		30		
0073		07	14097	14296	1504	N08	W40	4304	09	4.6	55	SN				68	.8	E
	RAMY	07	1409	1435	1508	N08	W40	4304	09	4.6	59	SF		C		75		
	HTPR	07	1416	1429	1500	N08	W41	4304	09	4.5	44	SN		C	1429	60	.8	E
		07	1702		1711	No Flare Patrol												

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						Region	Cmd								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0074	07	1738	1742	1754	N07	W43	4304	09	4.5	16	SN				74		F		
	RAMY	07	1738	1742	1751	N08	W43	4304	09	4.5	13	SN	3	C		52			
	PALE	07	1738	1742	1757	N06	W43	4304	09	4.5	19	SN	3	C		95		F	
		07	1807		1818	No Flare Patrol													
		07	1932		1936	No Flare Patrol													
		07	1944		1954	No Flare Patrol													
		07	2030		2034	No Flare Patrol													
	07	2120		2235	No Flare Patrol														
0075	VORO	07	2256E	2310D	S12	E26	4307	09	9.9	14D	SF		P	2258	45	.5	DJ		
		07	2313	2327	No Flare Patrol														
0076	LEAR	08	0329	0331	0338	N09	W50	4304	09	4.4	9	SN	3	C		55		F	
0077	LEAR	08	0427	0431	0456	S11	E25	4307	09	10.1	29	SF	3	C		86		FS	
0078		08	0609*	0611*	0705	S10	W22		09	6.6	56	SN				154	1.8	EFSU	
	CULG	08	0609E	0611	0644	S11	W23		09	6.5	35D	1N		P	0611	200	2.2	SF	
	LEAR	08	0609	0611	0653	S10	W21		09	6.7	44	SN	3	C		122		U	
	HTPR	08	0622	0644	0723	S10	W23		09	6.5	61	SF		C	0644	120	1.3	EU	
	CATA	08	0630E	0635	0650D	S11	W23		09	6.5	20D	1		P	0635	281	3.3		
	HTPR	08	0714	0714	0719	S10	W23		09	6.6	5	SF		C	0714	50	.5	E	
0079	HTPR	08	0932	0936	0945	S15	W23		09	6.6	13	SF		C	0936	40	.4		
0080	HTPR	08	1305	1307	1320	N08	W57	4304	09	4.3	15	SF		C	1307	10	.2		
0081	LEAR	09	0630	0632	0638	N11	W63	4304	09	4.5	8	SF	3	C		30			
0082	HTPR	09	1147E		1157D	N06	W14	4311	09	8.4	10D	SF		C	1156	20	.2	E	
0083	HTPR	09	1231E		1238D	N06	W14	4311	09	8.5	7D	SF		C	1235	20	.2	E	
0084	HTPR	09	1343E		1556D	N06	W15	4311	09	8.4	133D	SN		C	1532	40	.4	E	
		09	1907		2044	No Flare Patrol													
0085		09	2259*	23104	2327	N19	E11	4308	09	10.8	28	SF				138	2.6	FS	
	CULG	09	2259	2310	2326	N19	E12	4308	09	10.9	27	1N		P	2310	250	2.6	SF	
	HOLL	09	2307	2313	2329	N18	E08	4308	09	10.6	22	SF	3	C		139		F	
	PALE	09	2313	2314	2326	N19	E14	4308	09	11.0	13	SF	3	C		26		F	
0086		10	02136	0221	0232	S12	E02	4307	09	10.2	19	SF				92	1.4	FU	
	CULG	10	0213	0219U	0231D	S13	E01	4307	09	10.2	18D	SN		P	0219	130	1.4	F	
	PALE	10	0213	0222U	0233	S13	E02	4307	09	10.2	20	SF	3	C		52		F	
	LEAR	10	0219	0221	0232	S10	E02	4307	09	10.2	13	SF	3	C		94		UF	
0087	BUCA	10	0705		0725	S20	E09	4310	09	11.0	20	SN		P	0710	161	1.9	E	
0088		10	0745	0750	0836	S20	E09	4310	09	11.0	51	1N				138	1.6	EI	
	CATA	10	0745	0750	0840D	S17	E09	4310	09	11.0	55D	1		P	0750	197	2.2		
	HTPR	10	0802E		0836	S23	E09	4310	09	11.0	34D	SN		C	0813	80	.9	EI	
0089		10	1045	1100	1210	S23	E10	4310	09	11.2	85	SF				81	1.0	E	
	CATA	10	1045	1100	1145D	S23	E10	4310	09	11.2	60D	S		P	1100	112	1.4		
	HTPR	10	1122E		1210	S23	E09	4310	09	11.2	48D	SF		C	1131	50	.5	E	
0090	PALE	10	2050	2102	2121	N03	E19	4313	09	12.3	31	SN	C 1.0	3	C		61		F
		10	2055		2059	No Flare Patrol													
0091		11	07196	07219	0746	N04	E13	4313	09	12.3	27	SN				102	1.2	CEFU	
	YUNN	11	0719	0724	0743	N04	E14	4313	09	12.3	24	SB		C		113	1.2		
	ISTA	11	0720		0732	N05	E13	4313	09	12.3	12	1F			0722			C	
	BUCA	11	0720	0725U	0744	N04	E12	4313	09	12.2	24	SN		C	0725	107	1.1	E	
	LEAR	11	0721	0721	0739	N02	E14	4313	09	12.3	18	SF	3	C		53		F	
	PEKG	11	0721	0726	0755	N04	E13	4313	09	12.3	34	SF		C	0726	71	.8	EU	
	CATA	11	0725	0730	0805	N03	E13	4313	09	12.3	40	S		C	0730	169	1.8		

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0092	HOLL	11	1632	1637	1646	S09	W45	4305	09	8.3	14	SF		3	C		16		
0093	HOLL	11	1701	1702	1711	S09	W47	4305	09	8.2	10	SF		3	C		21		
0094	HOLL	11	2058	2059	2108	S11	W24	4307	09	10.1	10	SF		3	C		35		F
0095	HOLL	11	2335	2337	2356	S10	W51	4305	09	8.1	21	SF		3	C		37		
0096	KHAR	12	0932E	0932	0940D	S06	W33	4307A	09	9.9	8D	SF			V	0932			D
0097	KHAR	12	1015E	1016	1021D	S10	W55	4305	09	8.3	6D	SF			V	1016			D
0098	KHAR	12	1040E	1041	1053D	N12	E45	4320A	09	15.8	13D	SF			V	1040			D
0099		12	1611	1626	1814	S11	W30	4307	09	10.4	123	2N M 1.0					600		F
	HOLL	12	1611	1626	1808	S11	W29	4307	09	10.5	117	2N M 1.0	3	C			662		F
	RAMY	12	1611	1627	1819	S11	W30	4307	09	10.4	128	2N M 1.0	3	C			539		F
0100	HOLL	12	1619	1626	1824	S05	W44	4307A	09	9.4	125	SN		3	C		147		F
0101	PALE	12	1722E	1728U	1753	S12	W30	4307	09	10.5	31D	SF		3	C		46		F
0102		12	1728	1743	1755	S08	W46	4307	09	9.3	27	SF					96		
	PALE	12	1722E	1729U	1755	S08	W47	4307	09	9.2	33D	SF		3	C		35		
	RAMY	12	1728	1743	1755	S08	W46	4307	09	9.3	27	SF		3	C		158		
		12	2039		2103	No Flare Patrol													
0103	CULG	12	2328	2334	2336	S08	W34	4307	09	10.4	8	SN			C	2334	30	.4	H
0104	PALE	13	0143	0144	0154	S24	W23	4310	09	11.3	11	SF		3	C		30		
0105	ABST	13	0403E	0403	0427	S23	W27	4310	09	11.1	24D	SF			P	0403	87	1.1	D
0106	HTPR	13	0640	0650	0705	S14	E47	4317	09	16.8	25	SF			C	0656	20	.3	K
0107	ISTA	13	0700E		0820	S24	W22	4310	09	11.6	80D	1N							BU
0108	HTPR	13	0714	0724	0738	S14	E47	4317	09	16.8	24	SF			C	0724	20	.3	
0109		13	0807	0810	0813	S08	W38	4307	09	10.5	6	SN					25	.4	E
	KHAR	13	0750E		0850D	S08	W38	4307	09	10.5	60D	SN			P	0844	30	.4	E
	HTPR	13	0807	0810	0813	S08	W38	4307	09	10.5	6	SF			C	0810	20	.3	E
0110	CATA	13	0805	0810	0815	N03	W38	4307A	09	10.5	10	S		2	C	0810	56	.7	
0111	HTPR	13	0827	0831	0844	S08	W38	4307	09	10.5	17	SF			C	0831	10		
0112		13	0851	0844*	0859	S13	E45	4317	09	16.8	8	SF					15	.2	D
	KHAR	13	0844E	0844	0900D	S13	E44	4317	09	16.7	16D	SF			P	0844	10	.2	D
	HTPR	13	0851	0854	0859	S14	E48	4317	09	17.0	8	SN			C	0854	20	.3	
	KHAR	13	0911E	0914	0918D	S13	E44	4317	09	16.7	7D	SF			P				D
0113	HTPR	13	0942	0944	0947	S14	E48	4317	09	17.0	5	SF			C	0944	20	.3	
0114	HTPR	13	1048	1048	1053	S24	W30	4310	09	11.1	5	SF			C	1048	20	.2	
0115		13	11119	11146	1125	S14	E46	4317	09	16.9	14	SN					53	.8	E
	HTPR	13	1111	1114	1127	S14	E47	4317	09	17.0	16	SB			C	1114	50	.6	E
	KANZ	13	1116	1116	1119	S14	E45	4317	09	16.9	3	SF		1					
	CATA	13	1120	1120	1130	S15	E46	4317	09	16.9	10	S		1	C	1120	56	.9	
0116	HTPR	13	1136	1140	1155	S14	E47	4317	09	17.0	19	SN			C	1140	30	.4	E
0117	HTPR	13	1303	1306	1322	S14	E46	4317	09	17.0	19	SN			C	1306	20	.3	
0118	HTPR	13	1317	1320	1334	S24	W31	4310	09	11.1	17	SF			C	1320	30	.3	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0119	HTPR	13	1412	1421	1432	S09	W40	4307	09	10.6	20	SF		C	1421	50	.7	E	
0120	HTPR	13	1548	1550	1558	S14	E45	4317	09	17.0	10	SN		C	1550	30	.4	E	
0121		13	16062	1610	1617	S24	W32	4310	09	11.2	11	SF				26	.2	EF	
	RAMY	13	1606	1610	1620	S23	W33	4310	09	11.1	14	SF	3	C		31		F	
	HTPR	13	1608	1610	1614	S24	W32	4310	09	11.2	6	SF		C	1610	20	.2	E	
		13	1715		1724	No Flare Patrol													
0122		13	1802	1803	1824	S22	W34	4310	09	11.1	22	SF				48			
	PALE	13	1802	1803	1813	S24	W33	4310	09	11.2	11	SF	3	C		67			
	HOLL	13	1822E	1822U	1836	S21	W35	4310	09	11.1	14D	SF	2	C		30			
0123	HOLL	13	2231E	2232U	2253	S10	W46	4307	09	10.5	22D	SF	2	C		82		F	
		13	2318		2322	No Flare Patrol													
0124		14	03354	03411	0358	S23	W40	4310	09	11.1	23	SF				39	.6	EF	
	PEKG	14	0335	0342	0400	S23	W40	4310	09	11.1	25	SF		C	0342	55	.9	E	
	YUNN	14	0339E	0339U	0356D	S23	W41	4310	09	11.0	17D	SN		P	0339	16	.3	E	
	LEAR	14	0339	0341	0356	S23	W39	4310	09	11.1	17	SF	3	C		47		F	
0125	PEKG	14	0357	0403	0420	N09	W23	4314	09	12.4	23	SF		C	0403	63	.7	E	
0126		14	0436E	04375	0450	S05	W50	4307A	09	10.4	14D	SF				68	1.2	DE	
	ABST	14	0436E	0437	0449	S05	W51	4307A	09	10.4	13D	SF		P	0437	87	1.5	D	
	PEKG	14	0442E	0442	0450	S05	W50	4307A	09	10.4	8D	SF		P	0442	50	.8	E	
0127	HTPR	14	0903	0912	0930	S06	W54	4307A	09	10.3	27	SF		C	0912	30	.5	E	
0128		14	09351	09387	1002	S12	E32	4317	09	16.8	27	SB	C 1.8			57	.7	E	
	ATHN	14	0935	0938	1008	S11	E32	4317	09	16.8	33	SB	C 1.8	3	V	0938	64	.8	
	WEND	14	0935	0940	0957	S12	E33	4317	09	16.9	22	SN	C 1.8		C	0940	37	.5	
	HTPR	14	0935	0940	1007	S14	E32	4317	09	16.8	32	SB			C	0940	70	.8	E
	KANZ	14	0936	0939	0955	S12	E33	4317	09	16.9	19	SN			2				
	CATA	14	0945E	0945	0945D	S13	E32	4317	09	16.8	19D	S		P	0945	56	.7		
0129	HTPR	14	1041	1045	1055	S23	W45	4310	09	11.0	14	SF		C	1045	30	.4	E	
0130		14	11058	1117	1139	S14	E77	4321	09	20.3	34	SN				30			
	HTPR	14	1105	1117	1145	S15	E74	4321	09	20.1	40	SB		C	1117	30			
	WEND	14	1112	1117	1134	S13	E75	4321	09	20.1	22	SF		C	1117	30			
	KANZ	14	1113	1117	1137	S14	E81	4321	09	20.6	24	SN	2						
0131	KANZ	14	1228	1228	1246	S20	W35	4310A	09	11.8	18	SF	2						
0132	ATHN	14	1229E	1233	1243	S04	W49	4307A	09	10.8	14D	SB	3	V	1233	48	.8		
0133	PURP	15	0054E	0055	0058D	S14	E23	4317	09	16.8	4D	SN		C	0055	27	.3	E	
0134		15	04511	04521	0512	S11	E21	4317	09	16.8	21	SB	C 2.4			125	1.6	EFHJ	
	ABST	15	0451E	0452	0512D	S11	E21	4317	09	16.8	21D	SN		P	0452	175	2.0	EHJ	
	CULG	15	0451	0453	0520	S12	E22	4317	09	16.8	29	SB		C	0453	120	1.3	EH	
	LEAR	15	0452	0453	0503	S11	E21	4317	09	16.8	11	SB	C 2.4	3	C	81		F	
0135	ABST	15	0646	0649	0656	S13	E20	4317	09	16.8	10	SF		C	0649	131	1.5	DJ	
0136	KHAR	15	0755E	0755	0812D	S15	E18	4317	09	16.7	17D	SN		V	0755				
0137		15	0945*	1000*	1021	S14	E18	4317	09	16.8	36	SN				112	1.3	EH	
	CATA	15	0945	1000	1000D	S14	E18	4317	09	16.8	15D	S	2	P	1000	112	1.3		
	KHAR	15	1013E	1015	1028D	S14	E17	4317	09	16.7	15D	SN		V	1015			EH	
	KANZ	15	1017	1017	1021	S14	E19	4317	09	16.9	4	SF	2						
0138		15	1041	10441	1049	S14	E18	4317	09	16.8	8	SB						EH	
	KANZ	15	1041	1045	1049	S14	E19	4317	09	16.9	8	SB	2						
	KHAR	15	1043E	1044	1106D	S15	E17	4317	09	16.7	23D	SN		V	1044			EH	

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0139		15	11114	1114*	1130	S15	E64	4321	09	20.3	19	SN					47	.9	DG
	WEND	15	1111	1114	1130	S12	E63	4321	09	20.2	19	SF			C	1114	38	.9	G
	KHAR	15	1113E	1115	1118D	S16	E67	4321	09	20.5	5D	SN			V	1115			D
	CATA	15	1115	1135	1140D	S17	E63	4321	09	20.2	25D	S		1	P	1135	56		
0140		15	1115*	1128*	1154	S14	E18	4317	09	16.8	39	SN					89	1.0	
	CATA	15	1115	1130	1140D	S15	E17	4317	09	16.7	25D	S		1	P	1130	84	1.0	
	WEND	15	1123	1139	1152	S12	E17	4317	09	16.7	29	SF			C	1139	94	1.0	
	KANZ	15	1128	1128	1155	S14	E19	4317	09	16.9	27	SN		2					
0141		15	12473	12513	1301	S13	E18	4317	09	16.9	14	SN					88	1.0	
	WEND	15	1247	1251	1300	S12	E16	4317	09	16.7	13	SF			C	1251	88	1.0	
	KANZ	15	1250	1254	1302	S14	E19	4317	09	17.0	12	SN		2					
0142		15	14067	14125	1445	S12	E16	4317	09	16.8	39	SN	C 9.3				140	1.2	EF
	WEND	15	1406	1412	1430	S12	E15	4317	09	16.7	24	SN	C 9.3		C	1412	106	1.2	
	HOLL	15	1413E	1414U	1453	S13	E15	4317	09	16.7	40D	SB	C 9.3	3	C		195		F
	KANZ	15	1413	1417	1452	S11	E16	4317	09	16.8	39	1F		2					
	HTPR	15	1449E		1452D	S14	E16	4317	09	16.8	3D	SN			C	1450	120	1.2	E
0143	HOLL	15	1630E	1640	1712	S07	W56	4315	09	11.5	42D	SF		3	C		51		SU
0144		15	1651	1702*	1726	S14	E15	4317	09	16.8	35	SN	C 1.2				35		FK
	HOLL	15	1651	1702	1726	S14	E15	4317	09	16.8	35	SF		3	C		43		K
	HOLL	15	1651	1719	1726	S14	E15	4317	09	16.8	35	SN	C 1.2	3	C		27		FK
		15	1813		1817	No Flare Patrol													
0145	CULG	15	2117	2120	2132	S12	E12	4317	09	16.8	15	SN					2120	100	1.1
0146	ABST	16	0626	0629	0645	S11	E05	4317	09	16.6	19	SF				0629	87	.9	DK
0147	YUNN	16	0651	0659	0710	S12	E06	4317	09	16.7	19	SF					80	.9	T
0148	YUNN	16	0725E	0734	0738D	S12	E05	4317	09	16.7	13D	SN			P		80	.9	T
0149	LEAR	16	0805	0807	0816	S12	E06	4317	09	16.8	11	SF		3	C		31		
0150	YUNN	16	0906E	0906U	0936D	S12	E04	4317	09	16.7	30D	SN			P	0906	80	.9	T
0151	CATA	16	1140	1145	1145D	S15	E05	4317	09	16.9	5D	S		1	P	1145	112	1.2	
		16	1519		1525	No Flare Patrol													
0152	HOLL	16	1556	1605	1614	S12	E04	4317	09	17.0	18	SF		3	C		38		
0153	HOLL	16	1917	1920	1924	S08	E89	4319	09	23.5	7	SF		3	C		11		
		16	2017		2032	No Flare Patrol													
0154	PALE	16	2033E	2035U	2100	S12	W01	4317	09	16.8	27D	SF		3	C		90		
0155	LEAR	17	0249	0301	0309	S03	W68	4315	09	12.0	20	SF		3	C		27		F
0156		17	07046	07092	0716	S04	W72	4315	09	11.9	12	SF					12		D
	PEKG	17	0704	0709	0709D	S04	W74	4315	09	11.8	5D	SF			P	0709	13		D
	LEAR	17	0710	0711	0716	S04	W71	4315	09	12.0	6	SF		3	C		14		
	HTPR	17	0723E		0725D	S05	W72	4315	09	11.9	2D	SF			C	0724	10		
0157		17	0753	07553	0807	S13	W08	4317	09	16.7	14	SF					23	.3	E
	LEAR	17	0753	0755	0807	S13	W08	4317	09	16.7	14	SF		3	C		21		
	PEKG	17	0758E	0758	0758D	S13	W08	4317	09	16.7	14D	SF			P	0758	25	.3	E
0158		17	0759	07582	0804	S04	W73	4315	09	11.9	5	SF					14		D
	PEKG	17	0758E	0758	0758D	S04	W74	4315	09	11.8	5D	SF			P	0758	13		D
	LEAR	17	0759	0800	0804	S04	W72	4315	09	11.9	5	SF		3	C		16		
0159	HTPR	17	1322	1324	1331	S13	W10	4317	09	16.8	9	SF				1324	50	.5	E

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								Region	Class								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0160	HTPR	17	1420E	1430	1447D	N15	W27			09	15.5	27D	SF		C	1430	20	.2	E
0161		17	15523	1556	1620	S13	W12	4317		09	16.7	28	SN				28	.2	EF
	HTPR	17	1552		1600D	S13	W11	4317		09	16.8	8D	SN		C	1554	20	.2	E
	HOLL	17	1555	1556	1620	S13	W12	4317		09	16.7	25	SN	3	C		37		F
0162	HOLL	17	1713	1723	1745	S13	W13	4317		09	16.7	32	SN	3	C		105		F
0163	HOLL	17	1842	1846	1850	S04	W82	4315		09	11.6	8	SF	3	C		33		
0164		18	01373	01383	0151	N14	W65	4315A		09	13.1	14	SF				27	.3	
	CULG	18	0137	0139	0155	N11	W68	4315A		09	12.9	18	SF		C	0139	60		
	LEAR	18	0138	0138	0152	N15	W64	4315A		09	13.2	14	SF	3	C		18		
	MANI	18	0138	0140	0150	N15	W64	4315A		09	13.2	12	SF	1	V		15	.3	
	PALE	18	0140	0141	0148	N15	W64	4315A		09	13.2	8	SF	3	C		15		
0165	CATA	18	0855E	0855	0910D	S06	E68	4319		09	23.5	15D	S		P	0855	56		
0166	CATA	18	1050	1100	1115	S05	W90	4315		09	11.7	25	1		P	1100	56		
0167	ABST	19	0617	0618	0625	N15	W70	4315A		09	14.0	8	1N		C	0618	87		DV
0168	KANZ	19	1117	1121	1139	S07	E57	4319		09	23.7	22	SF		2				
0169	KANZ	19	1346	1414	1457	N15	W85	4315A		09	13.1	71	SN		2				
0170	YUNN	20	0428E	0430	0435	S13	W47	4317		09	16.6	7D	SN		P		32	.5	E
0171		20	06162	06191	0626	S14	W46	4317		09	16.8	10	SN				57	.9	D
	ATHN	20	0616	0619	0631	S12	W42	4317		09	17.1	15	SN	2	V	0619	64	1.0	
	CULG	20	0617	0619	0623	S16	W48	4317		09	16.6	6	SF		C	0619	20	.3	
	ABST	20	0618	0620	0624	S15	W46	4317		09	16.8	6	SN		C	0620	87	1.4	D
	KANZ	20	0618	0620	0625	S13	W46	4317		09	16.8	7	SN	1					
0172		20	0728*	0731*	0747	S08	E38	4319		09	23.2	19	SN				64	.8	ES
	LEAR	20	0728	0731	0748	S09	E39	4319		09	23.2	20	SN	3	C		91		S
	HTPR	20	0728	0731	0801	S08	E37	4319		09	23.1	33	SB		C	0731	30	.4	E
	CULG	20	0728	0733	0735	S07	E39	4319		09	23.2	7	SF		C	0733	40	.5	
	ATHN	20	0738	0742	0745	S09	E39	4319		09	23.2	7	SN	2	V	0742	95	1.4	
0173	KHAR	20	0748E	0750	0810D	S30	E90			09	27.4	22D	SF		V	0750			DH
0174		20	0757*	0804*	0836	S13	W49	4317		09	16.6	39	SN				51	1.1	DEKT
	LEAR	20	0757	0805	0811	S13	W47	4317		09	16.8	14	SF	3	C		23		
	KANZ	20	0757	0805	0812	S13	W48	4317		09	16.7	15	SF	2					
	KHAR	20	0801E	0804	0814D	S11	W50	4317		09	16.6	13D	SF		V	0804			D
	HTPR	20	0804	0811	0900	S13	W47	4317		09	16.8	56	SF		C	0811	20	.3	EK
	YUNN	20	0809	0811	0814	S14	W50	4317		09	16.6	5	SN		C		16	.3	DT
	KANZ	20	0820	0828	0855	S13	W48	4317		09	16.7	35	SN	2					
	YUNN	20	0824	0834	0842	S15	W50	4317		09	16.6	18	SN		C		64	1.1	ET
	LEAR	20	0828	0831	0842	S13	W51	4317		09	16.5	14	SF	3	C		24		
	KANZ	20	0828	0832	0832	S13	W50	4317		09	16.6	4	SN	2					
	YUNN	20	0846	0850	0901	S14	W50	4317		09	16.6	15	1N		C		161	2.8	T
0175	HTPR	20	0953	1014	1048	S13	W01	4321		09	20.3	55	SF		C	1014	10	.1	E
0176		20	10376	10407	1055	S12	W48	4317		09	16.8	18	SF				10	.1	D
	HTPR	20	1037	1040	1055	S13	W46	4317		09	17.0	18	SN		C	1040	10	.1	
	KHAR	20	1043E	1045	1050D	S11	W50	4317		09	16.7	7D	SF		V	1045			D
	KANZ	20	1043	1047	1055	S12	W48	4317		09	16.8	12	SF	2					
0177	KHAR	20	1053E	1053	1106D	S30	E90			09	27.5	13D	1F		V	1053			
0178		20	11122	11153	1135	S12	W02	4321		09	20.3	23	SF				20	.2	E
	HTPR	20	1112	1115	1140	S13	W01	4321		09	20.4	28	SF		C	1115	20	.2	E
	KANZ	20	1114	1118	1130	S11	W04	4321		09	20.2	16	SF	2					
0179	HTPR	20	1124	1124	1128	S13	W47	4317		09	16.9	4	SF		C	1124	10	.1	

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0180	KANZ	20	1206	1210	1217	S14	W50	4317	09	16.7	11	SN		2						
0181		20	12143	12183	1232	S13	W04	4321	09	20.2	18	SN					30	.3	E	
	HTPR	20	1214	1218	1230	S13	W02	4321	09	20.3	16	SN			C	1218	30	.3	E	
	KANZ	20	1217	1221	1233	S13	W05	4321	09	20.1	16	SN		2						
0182	HTPR	20	1332	1335	1343	S13	W48	4317	09	16.9	11	SF			C	1335	10	.1		
0183	HTPR	20	1452	1503	1513	S13	W50	4317	09	16.8	21	SF			C	1503	30	.5	E	
0184	PALE	20	1742	1743	1746	S13	W51	4317	09	16.9	4	SF		3	C		19			
		20	1944		1946	No Flare Patrol														
0185	MANI	21	0204	0207	0215	S13	W57	4317	09	16.8	11	SF		1	V		25	.5		
0186		21	06355	06404	0650	S16	E65	4323A	09	26.2	15	SN	C 1.7				37	.6		
	CATA	21	0635	0640	0640D	S17	E65	4323A	09	26.2	5D	S		2	P	0640	56			
	CULG	21	0639	0642	0649	S14	E67	4323A	09	26.3	10	SN			C	0642	30			
	LEAR	21	0639	0643	0650	S17	E65	4323A	09	26.2	11	SN	C 1.7	3	C		33			
	KANZ	21	0640	0644	0652	S17	E64	4323A	09	26.1	12	SN		2						
	HTPR	21	0643E		0643D	S17	E64	4323A	09	26.1	12D	SN			C	0643	30	.6		
0187	KHAR	21	0820E	0830	1052D	S30	E90		09	28.4	152D	2F			P	0913	150		H	
0188	CATA	21	0915	0920	0930	S17	E90	4324	09	28.2	15	1		2	C	0920	56			
0189	HTPR	21	1038	1039	1043	S12	W62	4317	09	16.8	5	SF			C	1039	30	.6	E	
0190	KHAR	21	1040E	1045	1100D	S20	E90	4324	09	28.3	20D	SN			V	1045			H	
0191	CULG	21	2108	2112	2119	S13	W22	4321	09	20.2	11	SF			C	2112	40	.4		
0192		22	00413	0046*	0129	S08	E16	4319	09	23.2	48	SN	C 1.0				99	1.2	EFJS	
	CULG	22	0041	0050	0121	S07	E16	4319	09	23.2	40	SN			C	0050	130	1.4	SF	
	VORO	22	0042	0052	0115	S08	E15	4319	09	23.1	33	SF			C	0052	108	1.2	EJ	
	LEAR	22	0044	0046	0128	S09	E16	4319	09	23.2	44	SN	C 1.0	3	C		62		F	
	YUNN	22	0124E	0124	0151	S07	E16	4319	09	23.2	27D	SN			P		96	1.1	E	
0193		22	0852	0855	0910	S18	E50	4323A	09	26.2	18	SF					20	.3	D	
	KHAR	22	0845E		0900D	S18	E51	4323A	09	26.2	15D	SF			V	0848			D	
	HTPR	22	0852	0855	0910	S17	E49	4323A	09	26.1	18	SF			C	0855	20	.3		
0194	KHAR	22	0856E		0903D	S22	E85	4324	09	28.9	7D	SF			V	0856			D	
0195	KHAR	22	0914E		0930D	S18	E50	4323A	09	26.2	16D	SF			V	0914			D	
0196	KHAR	22	0945E	0945	1013D	S18	E50	4323A	09	26.2	28D	SF			V	0945			D	
0197	HTPR	22	0947	0950	1000	S23	E82	4324	09	28.7	13	SN			C	0950	10			
0198	HTPR	22	1127	1130	1134	S23	E81	4324	09	28.7	7	SF			C	1130	10			
0199	HTPR	22	1235	1243	1255	S23	E80	4324	09	28.7	20	SF			C	1243	20		E	
0200		22	13052	13111	1330	S23	E78	4324	09	28.5	25	SN					20		E	
	HTPR	22	1305	1312	1338	S23	E79	4324	09	28.6	33	SN			C	1312	20		E	
	KANZ	22	1307	1311	1322	S23	E76	4324	09	28.4	15	SN		2						
0201		22	1355*	1508*	1631	S12	W75	4317	09	16.9	156	SN					45		EK	
	HTPR	22	1355	1532	1545	S12	W77	4317	09	16.8	110	SB			C	1532	20		EK	
	RAMY	22	1504	1508	2002D	S14	W76	4317	09	16.9	298D	SF		3	C		28		K	
	RAMY	22	1504	1735	2002D	S14	W76	4317	09	16.9	298D	1N		3	C		128		K	
	HOLL	22	1534E	1535	1546	S12	W74	4317	09	17.1	12D	SF		3	C		15			
	HOLL	22	1655	1736	1803	S11	W75	4317	09	17.1	68	SN		3	C		36			
0202	HTPR	22	1505	1514	1518	S23	E78	4324	09	28.6	13	SN			C	1514	20		E	

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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 Xray	See
0203		22	1542*	1544*	1605	S21	E77	4324	09	28.5	23	SN			11		FK	
	HOLL	22	1542	1544	1605	S21	E76	4324	09	28.5	23	SF	3	C	13		K	
	HOLL	22	1542	1601	1605	S21	E76	4324	09	28.5	23	SN	3	C	11		FK	
	HTPR	22	1552	1601	1605	S22	E78	4324	09	28.6	13	SB		C	1601	10		
0204	HTPR	22	1616		1634D	S12	E78	4323D	09	28.5	18D	SN		C	1626	20		
0205		22	1712*	1716*	1730	S21	E76	4324	09	28.5	18	SF			18		F	
	HOLL	22	1712	1716	1725	S21	E74	4324	09	28.4	13	SF	3	C	19		F	
	HOLL	22	1731	1732	1734	S21	E77	4324	09	28.6	3	SF	3	C	16		F	
0206	HOLL	22	1757	1758	1804	S21	E74	4324	09	28.4	7	SF	3	C		15	F	
0207		22	1823	1829*	1903	S12	W75	4317	09	17.1	40	SN			20		K	
	HOLL	22	1823	1829	1903	S12	W75	4317	09	17.1	40	SF	3	C	19		K	
	HOLL	22	1823	1843	1903	S12	W75	4317	09	17.1	40	SN	3	C	22		K	
0208	HOLL	22	1823	1824	1827	S21	E75	4324	09	28.5	4	SF	3	C		12		
0209	HOLL	22	1958	1959	2004	S20	E72	4324	09	28.3	6	SF C 1.1	3	C		25		
0210	CULG	22	2245	2246	2249	S14	E53	4323A	09	26.9	4	SF		C	2246	40	.7	
0211	CULG	23	0107	0110	0128	S13	E68	4323D	09	28.2	21	SF		C	0110	60		
0212		23	05322	0536	0542	S12	E66	4323D	09	28.2	10	1N			54		D	
	CULG	23	0532	0536	0542	S11	E66	4323D	09	28.2	10	SF		C	0536	20		
	ABST	23	0534	0536	0542	S14	E66	4323D	09	28.2	8	1N		C	0536	87	D	
0213		23	06456	06504	0703	S17	E38	4323A	09	26.2	18	SN			85	1.4	DK	
	CATA	23	0645	0650	0710	S17	E38	4323A	09	26.2	25	S	2	C	0650	112	1.6	
	ABST	23	0648	0652	0703	S16	E40	4323A	09	26.3	15	SN		C	0652	87	1.3	
	ISTA	23	0651		0700	S18	E37	4323A	09	26.1	9	SF						
	YUNN	23	0651E	0652	0701	S17	E39	4323A	09	26.2	10D	SN		P		96	1.4	
	LEAR	23	0651	0654	0701	S17	E38	4323A	09	26.2	10	SF	3	C		46		
0214	ISTA	23	0712		0717	S22	E68	4324	09	28.5	5	SF					D	
0215	HTPR	23	0848	0852	0908	S19	E65	4324	09	28.3	20	SN		C	0852	20	.5	E
0216		23	09162	09212	0934	S19	E66	4324	09	28.4	18	SN			14	.5	D	
	YUNN	23	0916	0921	0932	S19	E67	4324	09	28.5	16	SN		C	8		D	
	HTPR	23	0918	0923	0935	S19	E65	4324	09	28.3	17	SF		C	0923	20	.5	
0217		23	1440*	1449*	1529	N12	W69	4322	09	18.4	49	SN			39	.9	EGK	
	HTPR	23	1440	1449	1542	N15	W68	4322	09	18.5	62	SB		C	1523	40	.9	
	KANZ	23	1443	1451	1455D	N12	W69	4322	09	18.4	12D	SB	1					
	WEND	23	1444	1449	1502	N11	W69	4322	09	18.4	18	SN		C	1449	40		
	WEND	23	1516	1522	1543	N11	W70	4322	09	18.4	27	SF		C	1522	38		
0218		23	1542	1542	1554	S16	E60	4323D	09	28.2	12	SN			48	.8	EF	
	HTPR	23	1542	1542	1551	S17	E60	4323D	09	28.2	9	SB		C	1542	40	.8	
	HOLL	23	1542	1542	1558	S16	E59	4323D	09	28.1	16	SF	3	C	66		F	
	RAMY	23	1544E	1544U	1550D	S14	E61	4323D	09	28.3	6D	SF	3	C	38			
0219		23	16036	1608*	1621	N12	W70	4322	09	18.4	18	SN			39	.9	EG	
	WEND	23	1603		1608D	N11	W70	4322	09	18.4	5D	SN		C	1608	44		
	HTPR	23	1603	1618	1625	N15	W69	4322	09	18.4	22	SN		C	1618	40	.9	
	RAMY	23	1606	1608	1623	N11	W70	4322	09	18.4	17	SF	3	C	59			
	HOLL	23	1609	1609	1614	N13	W69	4322	09	18.5	5	SF	3	C	14			
0220	HOLL	23	1647	1649	1654	N17	W67	4322	09	18.6	7	SF	3	C		22		
0221		23	1806	18072	1829	S20	E62	4324	09	28.5	23	SN C 4.3			67		FH	
	HOLL	23	1806	1807	1832	S21	E61	4324	09	28.4	26	SN C 4.3	3	C	66		H	
	PALE	23	1806	1809	1826	S19	E62	4324	09	28.5	20	SN C 4.3	3	C	68		F	
			23	2222		2228	No Flare Patrol											

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
																	(10 ⁻⁶ Disk)	Apparent (Sq Deg)		Corr	
		23	2245		2307	No Flare	Patrol														
		23	2312		2332	No Flare	Patrol														
0222	LEAR	24	0414	0418	0426	S21 E57	4324	09	28.5	12	SF		3	C			25			E	
0223	HTPR	24	1139	1140	1144	S20 E53	4324	09	28.5	5	SF			C	1140		10	.2			
0224		24	12193	1223	1231	S20 E54	4324	09	28.6	12	SF						20	.2		E	
	HTPR	24	1219	1223	1228	S20 E53	4324	09	28.6	9	SF			C	1222		10	.2		E	
	RAMY	24	1222	1223	1234	S20 E54	4324	09	28.6	12	SF		3	C			31				
0225		24	1545*	1630*	1750	S19 E48	4324	09	28.3	125	SF	C 1.2					36	.2		F	
	HTPR	24	1545		1612D	S20 E51	4324	09	28.5	27D	SF			C	1558		10	.2			
	RAMY	24	1626	1630	1748	S16 E45	4324	09	28.1	82	SN	C 1.2	3	C			18				
	PALE	24	1724	1730	1737	S21 E50	4324	09	28.5	13	SF		3	C			39			F	
	PALE	24	1738	1741	1804	S19 E48	4324	09	28.4	26	SF		3	C			78			F	
		24	1632		1636	No Flare	Patrol														
		24	1957		2013	No Flare	Patrol														
		24	2018		2046	No Flare	Patrol														
		24	2051		2100	No Flare	Patrol														
		24	2108		2133	No Flare	Patrol														
		24	2144		2158	No Flare	Patrol														
		24	2400		2400	No Flare	Patrol														
		25	0000		0013	No Flare	Patrol														
0226		25	0157E	0215U	0248	S18 E46	4324	09	28.6	51D	SN	C 1.7					76	1.2		EJ	
	PURP	25	0157E	0215U	0257	S20 E45	4324	09	28.5	60D	SB	C 1.7		C	0215		102	1.7			
	VORO	25	0204E		0234D	S18 E47	4324	09	28.7	30D	SN			P	0204		45	.8		EJ	
	CULG	25	0217E	0217U	0239	S16 E45	4324	09	28.5	22D	SN			P	0217		80	1.2			
0227		25	03222	0325	0336	S16 E14	4323A	09	26.2	14	SF						48	.5		E	
	PURP	25	0321E	0332U	0336	S17 E15	4323A	09	26.3	15D	SF			P	0332		21	.2			
	CULG	25	0322	0324U	0334	S16 E14	4323A	09	26.2	12	SF			P	0324		50	.5			
	LEAR	25	0324	0325	0337	S16 E14	4323A	09	26.2	13	SF		4	C			57				
	YUNN	25	0331E	0331U	0336	S16 E13	4323A	09	26.1	5D	SN			P	0331		64	.7		E	
0228	LEAR	25	0343	0344	0351	S20 E44	4324	09	28.5	8	SF	C 1.2	4	C			30				
0229	LEAR	25	0501	0501	0517	S19 E43	4324	09	28.5	16	SF		3	C			34				
0230	LEAR	25	0524	0526	0538	S20 E42	4324	09	28.4	14	SF		3	C			37				
0231	KHAR	25	0835E	0836	0842D	S14 E16	4323A	09	26.6	7D	SF			V	0836					D	
0232		25	08571	0901	0910	S20 E40	4324	09	28.4	13	SN						41			D	
	LEAR	25	0857	0901	0911	S20 E40	4324	09	28.4	14	SF		3	C			41				
	ISTA	25	0858		0909	S21 E41	4324	09	28.5	11	SN									D	
0233	KHAR	25	0945E		0953D	S19 E36	4324	09	28.1	8D	SF			P	0945					D	
0234	KHAR	25	1024E		1032D	S21 E31	4324	09	27.8	8D	SF			V	1026					H	
0235	KANZ	25	1323	1323	1335	S25 E35	4324	09	28.3	12	SN		2								
0236		25	15381	1539	1544	S16 E34	4324	09	28.2	6	SF						29				
	RAMY	25	1538	1539	1545	S16 E35	4324	09	28.3	7	SF		3	C			33				
	HOLL	25	1539	1539	1544	S16 E33	4324	09	28.1	5	SF		3	C			25				
0237	PALE	25	1718	1722	1728	S17 E33	4324	09	28.2	10	SF		3	C			26				
0238		25	19158	19253	2011	S18 E34	4324	09	28.4	56	SN	C 1.8					124			F	
	RAMY	25	1915	1927	2012	S17 E35	4324	09	28.5	57	SN	C 1.8	3	C			132				
	HOLL	25	1922	1925	2020D	S18 E35	4324	09	28.5	58D	SN	C 1.8	4	C			164			F	
	PALE	25	1923	1928	2010	S20 E33	4324	09	28.3	47	SN	C 1.8	3	C			77			F	
0239		25	2129	21292	2139	S16 E30	4324	09	28.2	10	SN						76	1.4			
	PALE	25	2129	2129	2141	S17 E30	4324	09	28.2	12	SF		3	C			41				
	CULG	25	2130E	2131	2137	S16 E31	4324	09	28.2	7D	SB			P	2131		110	1.4			

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
								Region										Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0240	HOLL	25	2258	2300	2322	S18	E33	4324	09	28.5	24	SN	C	1.1	4	C		29		F	
0241	YUNN	26	0231E	0231U	0235	S18	E30	4324	09	28.4	4D	SN				P	0231	48	.6	E	
0242	ISTA	26	0525		0540	S21	E40	4324	09	29.3	15	SN								E	
0243	ISTA	26	0640		0644	S13	W16	4323A	09	25.1	4	SN								CD	
0244		26	0859	0905	0920	S22	E18	4324	09	27.7	21	SF						40		EFU	
	LEAR	26	0859	0905	0920	S21	E19	4324	09	27.8	21	SF		3	C			40		UF	
	KHAR	26	0904E		0919D	S22	E18	4324	09	27.8	15D	SF			P					E	
0245	RAMY	26	1055	1105	1156	S19	E28	4324	09	28.6	61	SF			4	C		60		F	
		26	1939		2008	No Flare Patrol															
0246	LEAR	26	2352	2356	2420	S17	E20	4324	09	28.5	28	SF				3	C		81		F
0247		27	0036Z	0038Z	0047	S15	E52	4326	10	1.0	11	SF						39	.8	EFGJ	
	VORO	27	0036	0038	0042	S15	E53	4326	10	1.0	6	SN				C	0038	27	.5	EJ	
	CULG	27	0036	0038	0051	S14	E52	4326	09	30.9	15	SF				C	0038	80	1.4		
	LEAR	27	0038	0038	0046	S15	E50	4326	09	30.8	8	SF		3	C			28		F	
	PURP	27	0041E	0041	0049	S17	E53	4326	10	1.0	8D	SF			C	0041	21	.4	G		
0248		27	0043	0044Z	0052	S22	E20	4324	09	28.6	9	SF	C	1.0				32	.5	F	
	LEAR	27	0043	0044	0051	S22	E20	4324	09	28.6	8	SF	C	1.0	3	C		23		F	
	PURP	27	0046E	0046	0054	S23	E20	4324	09	28.6	8D	SF	C	1.0		C	0046	41	.5		
0249		27	0107I	0109	0112	S18	E16	4324	09	28.3	5	SF						57	.8	EJ	
	VORO	27	0107		0109D	S18	E16	4324	09	28.3	2D	SF				P	0108	72	.8	EJ	
	LEAR	27	0108	0109	0112	S18	E17	4324	09	28.3	4	SF			3	C		42			
0250		27	0544E	0551	0649D	S14	W61	4327	09	22.6	65D	1N						122	2.8	DEK	
	ABST	27	0544E	0551	0649D	S14	W60	4327	09	22.7	65D	1F				P	0551	148	3.4	EK	
	YUNN	27	0648E	0648U	0649D	S14	W62	4327	09	22.6	1D	1N				P	0648	96	2.3	D	
0251	ISTA	27	0640		0645	S22	E12	4324	09	28.2	5	SN								DK	
0252		27	0732*	0835	0817	S12	W60	4327	09	22.8	45	SF						40	.4	DEH	
	HTPR	27	0722E		0810	S12	W58	4327	09	22.9	48D	SF				C	0742	20	.4		
	YUNN	27	0732	0744U	0751	S14	W63	4327	09	22.5	19	1N				P	0744	80		E	
	KHAR	27	0806E		0811D	S11	W62	4327	09	22.7	5D	SF				P	0806			DH	
	HTPR	27	0816	0835	0850	S12	W58	4327	09	23.0	34	SF				C	0835	20	.4	E	
	KHAR	27	0828E		0850D	S11	W62	4327	09	22.7	22D	SF				V	0845				
0253		27	0920E		0951	S11	W62	4327	09	22.7	31D	SF						20	.4		
	KHAR	27	0920E		0942D	S11	W62	4327	09	22.7	22D	SF				V	0920				
	HTPR	27	0925E		0951	S11	W61	4327	09	22.8	26D	SF				C	0930	20	.4		
0254	HTPR	27	0925E		0947	S20	E08	4324	09	28.0	22D	SF				C	0931	10	.1		
0255	HTPR	27	1108	1113	1117	S20	E08	4324	09	28.1	9	SF				C	1113	10	.1		
0256	HTPR	27	1140	1152	1200	S11	W62	4327	09	22.8	20	SF				C	1152	10	.2		
0257		27	1150*	1223	1241	S15	E08	4323C	09	28.1	51	SF						16	.1		
	HTPR	27	1150	1223	1247	S15	E07	4323C	09	28.0	57	SF				C	1223	10	.1		
	RAMY	27	1221	1223	1235	S15	E08	4323C	09	28.1	14	SF		3	C			22			
0258		27	1615	1617	1629D	S23	E10	4324	09	28.4	14D	SN						72	.7	EF	
	RAMY	27	1615	1617	1621D	S23	E09	4324	09	28.4	6D	SF				3	C	85		F	
	HTPR	27	1627E		1629D	S23	E10	4324	09	28.4	2D	SN				C	1627	60	.7	E	
		27	1608		1614	No Flare Patrol															
		27	1622		1626	No Flare Patrol															
		27	1630		1811	No Flare Patrol															
		27	1829		1858	No Flare Patrol															
		27	1934		2005	No Flare Patrol															

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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)	
0259	CULG	27	2116	2118	2124	S14	E41 4326	10	1.0	8	SF			C	2118	40	.5	
0260		28	01102	01113	0125	S18	E04 4324	09	28.3	15	SN					84	1.0	EFJ
	VORO	28	0110	0111	0118	S19	E04 4324	09	28.3	8	SN			C	0111	54	.6	EJ
	CULG	28	0111	0112	0121	S18	E05 4324	09	28.4	10	SB			C	0112	140	1.5	E
	LEAR	28	0112	0114	0126	S18	E04 4324	09	28.3	14	SN	3		C		98		F
	PALE	28	0112	0114	0136	S18	E05 4324	09	28.4	24	SF	3		C		43		F
0261	ABST	28	0400	0407	0430	S16	E36 4326	09	30.9	30	SF			C	0407	87	1.2	D
0262	ABST	28	0405	0407	0410	S15	W01 4323C	09	28.1	5	SF			C	0407	87	.9	D
0263	ISTA	28	0730		0739	S15	W01 4323C	09	28.2	9	SF							D
0264	HTPR	28	1430	1438	1452	S15	W07 4323C	09	28.1	22	SF			C	1438	20	.2	E
0265		28	1525	1525	1545	S20	W12 4324	09	27.7	20	SF					30		
	RAMY	28	1525	1525	1541	S20	W11 4324	09	27.8	16	SF	3		C		38		
	HOLL	28	1541E	1546U	1549	S20	W12 4324	09	27.7	8D	SF	3		C		21		
		28	2031		2035	No Flare Patrol												
0266		29	00053	0009	0011	S22	W12 4324	09	28.1	6	SN					34	.4	
	CULG	29	0005	0009	0011	S23	W12 4324	09	28.1	6	SN			C	0009	40	.4	
	LEAR	29	0008	0009	0011	S22	W12 4324	09	28.1	3	SF	3		C		29		
0267		29	02245	0239*	0309	S16	W13 4324	09	28.1	45	SF					89	1.1	F
	CULG	29	0224	0239	0309	S16	W14 4324	09	28.0	45	SN			C	0239	130	1.4	
	LEAR	29	0229	0243	0309	S16	W13 4324	09	28.1	40	SF	3		C		68		F
	PURP	29	0300E	0300	0309	S16	W12 4324	09	28.2	9D	SF			P	0300	68	.8	
0268		29	04361	0438	0439	S21	W03 4324	09	29.0	3	SN					86	1.0	
	CULG	29	0436	0438U	0439	S21	W02 4324	09	29.0	3	SF			P	0438	60	.6	
	YUNN	29	0437	0438	0439	S21	W04 4324	09	28.9	2	SN			C		113	1.3	
0269		29	0519*	0522*	0540	S20	W16 4324	09	28.0	21	SF	C 1.3				46		F
	LEAR	29	0519	0522	0534	S22	W13 4324	09	28.2	15	SF	C 1.3	3	C		56		
	LEAR	29	0536	0540	0546	S19	W18 4324	09	27.8	10	SF		3	C		35		F
0270		29	0622*	06258	0650	S20	W19 4324	09	27.8	28	SF					132	2.0	BE IJK
	ABST	29	0622	0625	0645	S20	W20 4324	09	27.7	23	1N			C	0625	261	3.2	EJK
	LEAR	29	0632	0633	0656	S20	W19 4324	09	27.8	24	SF	3		C		66		
	HTPR	29	0716E		0724D	S20	W19 4324	09	27.8	8D	SF			C	0716	70	.7	BE I
0271	HTPR	29	0925	0930	0934	S27	W09 4324	09	28.7	9	SF			C	0930	10	.1	
0272		29	10322	1042	1055	S20	W19 4324	09	28.0	23	1N							
	KAND	29	1032	1042	1052	S21	W18 4324	09	28.0	20	SN			C				
	KANZ	29	1034	1042	1058	S19	W20 4324	09	27.9	24	1F	2						
0273	KANZ	29	1138	1138	1150	S20	W10 4324	09	28.7	12	SF		2					
0274		29	1513	15135	1525	S21	W13 4324	09	28.6	12	SN					48		HK
	RAMY	29	1513	1513	1525	S21	W13 4324	09	28.6	12	SN	3		C		22		K
	RAMY	29	1513	1518	1525	S21	W13 4324	09	28.6	12	SN	3		C		74		HK
0275	RAMY	29	1638	1639	1700	S21	W14 4324	09	28.6	22	SF	3		C		67		
		29	1924		2103	No Flare Patrol												
0276	LEAR	30	0107	0110	0124	S18	W22 4324	09	28.4	17	SF	3		C		41		
0277	PURP	30	0236	0237	0240	S18	W22 4324	09	28.4	4	SN			C	0237	27	.3	D
0278	LEAR	30	0319	0322	0336	S23	W23 4324	09	28.4	17	SF	3		C		36		
0279	CULG	30	0405	0406	0409	S17	W27 4324	09	28.1	4	SF			C	0406	50	.6	

H - ALPHA SOLAR FLARES

SEPTEMBER 1983

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		Remarks	
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0280	CULG	30	0556	0558	0600D	S24	W24	4324	09	28.4	4D	SF				P	0558	90	1.1	FI
0281	HTPR	30	0822	0825	0830	S20	W26	4324	09	28.3	8	SF				C	0825	10	.1	
0282	HTPR	30	0848	0851	0902	S20	W37	4324	09	27.5	14	SF				C	0851	10	.1	
0283		30	0935	09366	0950	S19	W30	4324	09	28.1	15	SN						80	1.0	DK
	KHAR	30	0929E	0942	0952D	S19	W30	4324	09	28.1	23D	SF				V	0942	100	1.2	D
	HTPR	30	0935	0936	0950	S19	W29	4324	09	28.2	15	SB				C	0943	60	.7	K
0284		30	11424	11471	1205	S14	E06	4326	09	30.9	23	SN						32	.4	EF
	HTPR	30	1142	1148	1210	S15	E06	4326	09	30.9	28	SN				C	1148	40	.4	E
	RAMY	30	1146	1147	1200	S14	E05	4326	09	30.9	14	SF		3	C		25		F	
0285	KANZ	30	1146	1146	1206	N07	W04	4324C	09	30.2	20	SN			2					
0286	HTPR	30	1310		1335D	S19	W40	4324	09	27.5	25D	SF				C	1312	10	.1	
0287	HTPR	30	1322		1335D	S23	W28	4324	09	28.4	13D	SF				C	1331	20	.2	
0288	HTPR	30	1424E		1452D	S23	W40	4324	09	27.5	28D	SF				C	1429	30	.4	E
		30	1453		1457	No Flare Patrol														
0289	HTPR	30	1509		1526D	S15	W70	4323B	09	25.3	17D	SF				C	1516	10	.2	
		30	1527		1555	No Flare Patrol														
		30	1600		1619	No Flare Patrol														
		30	1624		1712	No Flare Patrol														

"Remarks":

- | | |
|--|---|
| <p>A = Eruptive prominence whose base is less than 90° 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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