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Jan 83

H - ALPHA SOLAR FLARES

JANUARY 1983

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Reglon	CMP Mo	Day	Dur (Min)	Imp Opt. Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																(10 ⁻⁶ Disk)	Apparent Corr (Sq Deg)		
			01 0000		0006			No Flare Patrol											
0001			01 0041	0044	0120	S14	W49	4033	12	28.4	39	1N	C	7.3			214	3.1	IJ
	VORO		01 0041	0042U	0115	S13	W49	4033	12	28.4	34	1F			C	0044	179	3.1	IJ
	LEAR		01 0041	0044	0124	S14	W49	4033	12	28.4	43	1N	C	7.3	3	C	250		
0002			01 0212	0213	0230	S12	W64	4033	12	27.4	18	SF	C	1.3			36		EFIJ
	LEAR		01 0212	0213	0226	S11	W63	4033	12	27.4	14	SF	C	1.3	3	C	37		F
	VORO		01 0212	0214U	0235	S12	W64	4033	12	27.4	23	SF			C	0214	36		EIJ
			01 0309		0310			No Flare Patrol											
0003	LEAR		01 0335	0337	0343	S17	W58	4033	12	27.8	8	SF	C	1.2	3	C	65		
0004			01 04201	04232	0430	S20	W30	4039	12	30.0	10	SF	C	1.0			37	.5	E
	PEKG		01 0420	0425	0430	S19	W30	4039	12	30.0	10	SF			C	0425	42	.5	E
	LEAR		01 0421	0423	0430	S20	W29	4039	12	30.1	9	SF	C	1.0	3	C	32		
0005	LEAR		01 0422	0422	0426	S14	W62	4033	12	27.6	4	SF			3	C	16		
0006	LEAR		01 0703	0704	0709	S14	W65	4033	12	27.5	6	SF			3	C	29		
0007			01 09423	09454	1003	S12	W54	4033	12	28.4	21	1B	C	8.7			164	2.4	FH
	LEAR		01 0942	0949	1006	S12	W55	4033	12	28.4	24	1B	C	8.7	3	C	188		FH
	CATA		01 0945	0945	1000	S12	W53	4033	12	28.5	15	1			2	C	0945	140	2.4
			01 1110		1310			No Flare Patrol											
			01 1401		1405			No Flare Patrol											
			01 1427		1439			No Flare Patrol											
			01 1506		1535			No Flare Patrol											
			01 1630		1936			No Flare Patrol											
0008			01 22541	22572	2324	S15	W58	4033	12	28.7	30	1N	C	5.9			156		FH
	HOLL		01 2254	2259	2327	S14	W58	4033	12	28.7	33	1B	C	5.9	3	C	187		FH
	PALE		01 2255	2257	2258D	S16	W58	4033	12	28.6	30	1F	C	5.9	3	C	127		
	LEAR		01 2300E	2300U	2322	S16	W59	4033	12	28.6	22D	1F	C	5.9	2	C	154		F
0009			02 0156	0201	0224	S12	W78	4033	12	27.3	28	1N	M	1.1			100		EFIJ
	VORO		02 0156	0200U	0234	S12	W77	4033	12	27.4	38	1F			C	0200	102		EIJ
	PEKG		02 0200E	0201	0216	S11	W79	4033	12	27.2	16D	1N	M	1.1		C	0201	97	E
	LEAR		02 0202E	0202U	0221	S12	W78	4033	12	27.3	19D	SN	M	1.1	3	C			F
			02 1021		1049			No Flare Patrol											
0010	RAMY		02 1511	1524	1547	S18	W49	4039	12	30.0	36	SF	C	1.0	3	C	74		
0011	RAMY		02 1629	1636	1654	S15	E48	4047	01	6.3	25	SF			3	C	41		
			02 2037		2044			No Flare Patrol											
			02 2103		2150			No Flare Patrol											
			02 2200		2308			No Flare Patrol											
0012	LEAR		03 0437	0443	0454	S08	E79	4049	01	9.1	17	SF			3	C			
0013			03 08502	0852	0902	S16	W56	4039	12	30.2	12	SF	C	.7			17		E
	ISTA		03 0850		0859	S18	W52	4039	12	30.5	9	SF							E
	LEAR		03 0852	0852	0904	S15	W60	4039	12	29.9	12	SF	C	.7	3	C	17		
0014			03 08574	0905	0918	S18	E39	4047	01	6.3	21	SN	C	.8			34		E
	ISTA		03 0857		0915	S19	E40	4047	01	6.4	18	SN	C	.8					E
	LEAR		03 0901	0905	0920	S17	E38	4047	01	6.3	19	SF	C	.8	3	C	34		
0015	CATA		03 1235	1235	1250	S11	W90	4033	12	27.8	15	1			2	C	1235	56	
			03 1421		1441			No Flare Patrol											
			03 1501		1536			No Flare Patrol											
0016	HOLL		03 1729	1734	1756	S07	E66	4049	01	8.7	27	SF	C	.8	3	C	26		

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																	(10 ⁻⁶ Disk)	(Sq Deg)		
0017	ABST	04	0705	0708	0715	N16	W35	4045	01	1.6	10	SF			C	0708	131	1.6	EG	
0018	ABST	04	0706	0709	0720	S15	E06	4046	01	4.7	14	1N			C	0709	261	2.8	EJ	
0019	ABST	04	0720	0723	0735	N23	W26	4045	01	2.3	15	SF			C	0723	131	1.6	EG	
0020	HTPR	04	0855E		0955	S17	E05	4046	01	4.7	60D	SF			C	0921	100	1.0	ET	
0021	HTPR	04	1011		1027D	S17	E04	4046	01	4.7	16D	SF			C	1018	80	.8	ET	
0022	HTPR	04	1054E		1304D	S17	E03	4046	01	4.7	130D	SF			C	1245	120	1.2	ET	
0023	04	1100*	1242	1250	S14 E64	4048	01	9.3	110	SF							44	1.1		
	HTPR	04	1100		1326D	S14 E64	4048	01	9.3	146D	SF			C	1200		50	1.1		
	RAMY	04	1227	1242	1250	S14 E64	4048	01	9.3	23	SF		3	C			37			
	04	1900		1942	No Flare Patrol															
	04	1953		2020	No Flare Patrol															
	04	2054		2229	No Flare Patrol															
0024	HOLL	04	2338	2342	2346	S17	E56	4054	01	9.2	8	SF		3	C			49		
0025	LEAR	05	0329	0339	0417	S13	E57	4048	01	9.4	48	SN C	3.3	3	C			35		F
0026	05	0459*	05205	0535	N14 E68	4052A	01	10.3	36	1N								112		
	LEAR	05	0459	0525	0528D	N15 E64	4052A	01	10.0	29D	1F		2	C				113		EFG
	MITK	05	0518	0520	0535	N14 E71	4052A	01	10.6	17	1N			C	0520			110		EG
0027	05	0748	0750	0800	S14 E54	4048	01	9.4	12	SF								68	1.4	D
	ABST	05	0647U	0658U	0722U	S14 E55	4048	01	9.4	35U	SF			P	0658			96	2.0	D
	MANI	05	0748	0750	0800	S13 E53	4048	01	9.3	12	SF		1	V				40	.7	
	05	0909		0925	No Flare Patrol															
0028	HTPR	05	0926E		0927D	S18	W12	4046	01	4.5	1D	SF			C	0926		70	.7	E
	05	0928		1002	No Flare Patrol															
	05	1004		1021	No Flare Patrol															
	05	1032		1036	No Flare Patrol															
0029	HTPR	05	1047	1055	1059	S14	E52	4048	01	9.4	12	SF			C	1055		40	.6	
0030	HTPR	05	1356	1357	1403	N09	W32	4041	01	3.2	7	SF			C	1357		20	.2	
0031	HTPR	05	1401	1425	1445	S15	E52	4054	01	9.5	44	SF			C	1425		20	.3	
0032	HTPR	05	1450		1512D	S09	E50	4048	01	9.4	22D	SF			C	1456		20	.3	
	05	1513		1540	No Flare Patrol															
	05	1645		1721	No Flare Patrol															
0033	RAMY	05	1724E	1726U	1728	S17	W15	4046	01	4.6	4D	SF		3	C			37		F
	05	1801		1804	No Flare Patrol															
	05	2314		2318	No Flare Patrol															
0034	PALE	06	0034	0034U	0100	S14	E45	4048	01	9.4	26	SF C	1.0	3	C			20		
0035	PALE	06	0109	0113	0121	S12	E43	4048	01	9.3	12	SF		3	C			31		
0036	LEAR	06	0504	0504	0517	S12	E42	4048	01	9.4	13	SF		3	C			50		
0037	ABST	06	0732	0737	0820	N11	E55	4052A	01	10.4	48	1N			C	0737		244	4.8	F
0038	06	08015	08122	0824	S10 E72	4053	01	11.7	23	1N								70		D
	LEAR	06	0801	0814	0822	S11 E70	4053	01	11.6	21	SF		3	C				54		
	ABST	06	0806	0812	0827	S10 E75	4053	01	12.0	21	1N			C	0812			87		D

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0039	LEAR	06	0808	0815	0830	S15	W24	4046	01	4.5	22	SF		3	C		29		F
0040	HTPR	06	0903	0906	0914	S13	E37	4048	01	9.2	11	SF			C	0906	20	.2	E
0041	HTPR	06	0910	0917	0921	N07	W42	4041	01	3.2	11	SF			C	0917	10	.1	
0042	CATA	06	1025	1025	1030D	S13	E71	4053	01	11.8	5D	S		2	P	1025	56		
0043	KANZ	06	1142	1148	1205	S11	E40	4048	01	9.5	23	SF		3					
0044		06	12201	12283	1248	S10	E36	4048	01	9.2	28	SN					50	.6	E
	HTPR	06	1220	1231	1251	S10	E37	4048	01	9.3	31	SF			C	1231	50	.6	E
	KANZ	06	1221	1228	1245	S09	E35	4048	01	9.1	24	SN		3					
0045	HTPR	06	1314	1325	1348	S10	E37	4048	01	9.3	34	SF			C	1325	20	.2	E
0046	RAMY	06	1501	1509	1535	S10	E33	4048	01	9.1	34	SN	C 1.3	3	C		47		
			1521		1530		No Flare Patrol												
		06	1538		1548			No Flare Patrol											
0047	RAMY	06	1659	1701	1759	S12	E31	4048	01	9.0	60	SN		3	C		20		
			1727		1758		No Flare Patrol												
		06	1811		2219			No Flare Patrol											
0048	HOLL	06	2143E	2318U	2319	S12	E32	4048	01	9.3	96D	SF		3	C		53		
0049	PALE	06	2243E	2259U	2319D	S17	W30	4046	01	4.7	36D	SF		3	C		43		
			2320		2329		No Flare Patrol												
		06	2342		2343			No Flare Patrol											
0050	LEAR	07	0010	0027	0034	S14	W31	4046	01	4.7	24	SF		3	C		55		
0051		07	0206	0206	0222	N10	E43	4051	01	10.3	16	SB	C 2.9				169	2.7	F
	LEAR	07	0206	0206	0227	N10	E43	4051	01	10.3	21	SB	C 2.9	3	C		144		F
	MANI	07	0206	0207U	0209D	N10	E43	4051	01	10.3	3D	SB		1	V		110	1.7	F
	YUNN	07	0207E	0207U	0216	N09	E44	4051	01	10.4	9D	1N	C 2.9		P	0207	252	3.7	F
0052		07	0458*	0501*	0542	S17	W34	4046	01	4.6	44	SN	C 2.0				110	1.6	F
	LEAR	07	0458	0501	0550	S17	W35	4046	01	4.5	52	SF	C 2.0	3	C		55		F
	PEKG	07	0510	0518	0535	S17	W36	4046	01	4.5	25	SF			P	0518	109	1.4	F
	MANI	07	0523E	0523U	0528D	S17	W30	4046	01	4.9	5D	SN		1	V		120	1.5	
	YUNN	07	0526E	0526U	0535D	S16	W36	4046	01	4.5	9D	SN			P	0526	157	2.0	
0053	LEAR	07	0508	0511	0521	N13	E36	4051	01	9.9	13	SF		3	C		90		F
0054	KAND	07	0812E	0827	0907	S11	E06	4055	01	7.8	55D	SN							E
0055	KAND	07	0812E	0838	0842	S13	W39	4046	01	4.4	30D	SN							E
0056	KAND	07	0815	0841	0934	S07	W06	4055	01	6.9	79	SN							G
0057		07	0841	08582	0912	S14	W01	4055	01	7.3	31	1N					674	7.1	G
	KAND	07	0841	0858	0911	S15	E02	4055	01	7.5	30	SN							G
	KAND	07	0841	0858	0914	S13	W02	4055	01	7.2	33	SN							G
	CATA	07	0845E	0900	0910	S15	W02	4055	01	7.2	25D	2		2	P	0900	674	7.1	
0058		07	0930E	0935	1038	S15	E01	4047	01	7.5	68D	2N					787	8.0	EILU
	CATA	07	0930E	0935	0940.	S15	W02	4047	01	7.2	10D	2		2	P	0935	674	7.1	
	KANZ	07	0944E		1135	S15	E02	4047	01	7.5	111D	1N		3					
	HTPR	07	0958E		1110D	S15	E02	4047	01	7.6	72D	2F			C	1005	900	9.0	EILU
0059	CATA	07	0935	0935	0940	S15	E51	4052E	01	11.3	5	1		2	P	0935	140	2.3	
0060		07	0936	0946	1010	N14	E42	4052A	01	10.6	34	SN					30	.4	D
	KAND	07	0936	0946	1006	N15	E42	4052A	01	10.6	30	SN							D
	HTPR	07	0958E		1015	N13	E43	4052A	01	10.6	17D	SF			C	1000	30	.4	

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0061	KANZ	07	1019	1022	1035	S10	E40	4052C	01	10.4	16	SF		3						
0062	HTPR	07	1145	1149	1200	S09	E21	4049	01	9.1	15	SF			C	1149	30	.3	E	
0063	07	11486	1158	1212	S11	E44	4052E	01	10.8	24	SF						20	.3	E	
	HTPR	07	1148	1158	1215	S11	E44	4052E	01	10.8	27	SF			C	1158	20	.3	E	
	KANZ	07	1154	1158	1208	S11	E43	4052E	01	10.7	14	SF		3						
0064	07	1204*	1208*	1240	S10	E21	4048	01	9.1	36	SF						48	.5	E	
	KANZ	07	1204	1208	1218	S10	E22	4048	01	9.1	14	SF		3						
	RAMY	07	1208	1234	1259	S11	E21	4048	01	9.1	51	SF		3	C		46			
	KANZ	07	1227	1234	1237	S10	E22	4048	01	9.2	10	SF		3						
	HTPR	07	1228	1234	1245	S09	E20	4048	01	9.0	17	SN			C	1234	50	.5	E	
0065	HTPR	07	1308	1314	1323	S09	E20	4049	01	9.0	15	SN			C	1314	20	.2		
0066	07	13304	1337*	1432	N08	W58	4041	01	3.2	62	SF						47	1.0	EF	
	HTPR	07	1330	1339	1435	N09	W59	4041	01	3.1	65	SF			C	1339	60	1.0	E	
	KANZ	07	1333	1337	1400D	N09	W58	4041	01	3.2	27D	SN		3						
	RAMY	07	1334	1407	1428	N07	W58	4041	01	3.2	54	SF		3	C		34		F	
0067	HTPR	07	1337	1400	1430	S09	E20	4049	01	9.1	53	SF			C	1400	40	.4	E	
	07	1516		1529						No Flare Patrol										
	07	1613		1916						No Flare Patrol										
	07	2156		2211						No Flare Patrol										
	07	2228		2254						No Flare Patrol										
0068	PALE	07	2249E	2251U	2311D	S09	E12	4049	01	8.8	22D	SF		3	C		49		F	
	08	0009		0053						No Flare Patrol										
0069	LEAR	08	0232	0234	0239	S08	E45	4053	01	11.5	7	SF		3	C		34			
0070	LEAR	08	0244	0245	0251	S08	E45	4053	01	11.5	7	SF		3	C		34			
0071	LEAR	08	0254	0301	0313	S09	E44	4053	01	11.4	19	SF	C 1.4	3	C		25		FH	
	08	0406		0408						No Flare Patrol										
0072	LEAR	08	0422	0423	0431	S09	E43	4053	01	11.4	9	SF	C 1.3	3	C		48		H	
0073	ABST	08	0638U	0639U	0727	S08	E41	4053	01	11.3	49U	SF			P	0639	87	1.2	D	
0074	08	0812E	0917U	0936	S14	W52	4046	01	4.4	84D	SN						80	1.3	DE	
	HTPR	08	0812E		0945	S15	W52	4046	01	4.4	93D	SF			C	0842	80	1.3	E	
	KAND	08	0917E	0917U	0927	S13	W52	4046	01	4.5	10D	SN							D	
0075	08	08222	08264	0852	S10	E43	4052E	01	11.6	30	1N						167	2.3	E	
	HTPR	08	0822	0826	0844	S11	E43	4052E	01	11.6	22	SN			C	0827	120	1.7	E	
	ABST	08	0824	0826	0901	S10	E43	4052E	01	11.6	37	1N			C	0826	183	2.6	E	
	CATA	08	0830E	0830	0850	S10	E42	4052E	01	11.5	20D	1		2	P	0830	197	2.7	E	
0076	KAND	08	0917E	0917U	0929	S07	E39	4053	01	11.3	12D	SN							D	
0077	HTPR	08	1013	1016	1022	S09	E10	4049	01	9.2	9	SF			C	1016	50	.5	E	
0078	08	10402	10452	1106	S09	E10	4049	01	9.2	26	SN						106	1.1	E	
	CATA	08	1040	1045	1045	S09	E09	4049	01	9.1	5	S		2	P	1045	112	1.2	E	
	HTPR	08	1042	1047	1128	S09	E10	4049	01	9.2	46	SN			C	1047	100	1.0	E	
0079	08	1128	1132	1143	S10	E40	4052E	01	11.5	15	1N						135	1.8	E	
	LVOV	08	1126U	1132U	1146U	S10	E40	4052E	01	11.5	20U	1F			C	1132	200	2.7	E	
	HTPR	08	1128	1132	1143	S10	E40	4052E	01	11.5	15	SN			C	1132	70	.9	E	
0080	08	13263	13301	1401	S10	E40	4052E	01	11.6	35	SB	C 4.3					157	2.0	EF	
	HTPR	08	1326	1330	1404	S10	E39	4052E	01	11.5	38	SB			C	1330	150	1.9	E	
	RAMY	08	1329	1330	1402	S10	E41	4052E	01	11.6	33	SB	C 4.3	3	C		161		F	
	ATHN	08	1329	1331	1357	S11	E41	4052E	01	11.6	28	1B		2	V	1331	159	2.2		

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0081	08	1340	1340	1345	1446	S09	E07	4049	01	9.1	66	SB	C	4.9			194	2.0	EFIU	
	HTPR	08	1340	1347	1440	S09	E07	4049	01	9.1	60	SB				1347	200	2.0	EIU	
	RAMY	08	1341	1345	1453	S09	E07	4049	01	9.1	72	SB	C	4.9	3	C	188		F	
0082	ATHN	08	1341	1347	1425D	S12	E11	4048	01	9.4	44D	SB			2	V	1347	175	1.9	
0083	08	1422*	1440	1513	1513	S18	W52	4046	01	4.6	51	SN					54	1.1	EFT	
	HTPR	08	1422		1458D	S16	W53	4046	01	4.6	36D	SF				1444	70	1.1	ET	
	RAMY	08	1438	1440	1513	S19	W51	4046	01	4.7	35	SN			3	C	39		F	
	08	1523		1542	No Flare Patrol															
0084	HOLL	08	1552	1614	1647	S12	E40	4052E	01	11.7	55	SN					129		F	
0085	HOLL	08	1802	1804	1813	S10	E36	4052E	01	11.4	11	SF					33		F	
0086	HOLL	08	1823	1825	1831	S09	E07	4048	01	9.3	8	SF					26			
0087	08	1828	1838	1934	1934	S17	W56	4046	01	4.5	66	SN					45			
	HOLL	08	1828	1838	1930	S16	W56	4046	01	4.5	62	SN				3	C	19		
	PALE	08	1845E	1901U	1938	S18	W57	4046	01	4.4	53D	SN				3	C	71		
0088	08	1854	1855	1930	1930	S10	E38	4052E	01	11.6	36	SN	C	1.7			52		F	
	PALE	08	1845E	1855U	1931	S10	E37	4052E	01	11.6	46D	SN	C	1.7	3	C	42		F	
	HOLL	08	1854	1855	1929	S11	E38	4052E	01	11.6	35	SN	C	1.7	3	C	63		F	
0089	HOLL	08	2105	2111	2206D	S11	E34	4052E	01	11.4	61D	SF					36		F	
0090	HOLL	08	2215	2218	2251	S09	E25	4053	01	10.8	36	SN					54		F	
0091	PALE	08	2220	2230	2232	S17	W59	4046	01	4.4	12	SF					24			
0092	08	2319*	2344	2404	2404	S16	W60	4046	01	4.4	45	SF					26			
	HOLL	08	2319	2345	2400D	S15	W61	4046	01	4.3	41D	SF				3	C	27		
	PALE	08	2341	2344	2404	S17	W60	4046	01	4.4	23	SF				3	C	25		
0093	08	2348	2350*	2428	2428	S08	E24	4053	01	10.8	40	SF					28			
	PALE	08	2348	2405	2428	S08	E25	4053	01	10.9	40	SF				3	C	32		
	HOLL	08	2349	2350	2403D	S09	E23	4053	01	10.7	14D	SF				3	C	23		
0094	09	0046	0050	0109	0109	S16	W57	4046	01	4.7	23	SN					52	1.4	DJ	
	VORO	09	0046	0050U	0105	S17	W57	4046	01	4.7	19	SF				0050	72	1.3	DJ	
	PALE	09	0046	0050	0112	S17	W56	4046	01	4.8	26	SB				3	C	35		
	LEAR	09	0047	0050	0111	S16	W55	4046	01	4.9	24	SB				3	C	19		
	MANI	09	0051E	0051U	0055D	S16	W59	4046	01	4.6	4D	SN				1	V	80	1.5	
0095	09	0118*	0135*	0143	0143	S17	W57	4046	01	4.7	25	SN					39	1.0	DFJ	
	PALE	09	0118	0135	0138	S18	W58	4046	01	4.6	20	SN				3	C	39		F
	VORO	09	0135	0136U	0138	S17	W57	4046	01	4.7	3	SF				0136	54	1.0	DJ	
	PALE	09	0144	0146	0152	S17	W57	4046	01	4.7	8	SN				3	C	24		
0096	09	0213	0216	0246	0246	S09	E31	4052E	01	11.4	33	1N	C	3.1			236	3.2	EFIJ	
	PALE	09	0213	0217	0247	S09	E30	4052E	01	11.3	34	SB	C	3.1	3	C	156		F	
	PEKG	09	0215	0216	0234	S10	E31	4052E	01	11.4	19	1N	C	3.1		C	210	2.5	F	
	LEAR	09	0215	0218	0254	S09	E31	4052E	01	11.4	39	1N	C	3.1	3	C	229		F	
	VORO	09	0216	0219U	0250	S09	E33	4052E	01	11.6	34	1F				0221	349	3.9	EIJ	
0097	09	0224*	0224*	0233	0233	S18	W58	4046	01	4.7	9	SF					16		F	
	LEAR	09	0224	0224	0228	S18	W57	4046	01	4.7	4	SF				3	C	16		
	PALE	09	0235	0235	0238	S18	W59	4046	01	4.6	3	SF				3	C	17		F
0098	LEAR	09	0335	0336	0353	S09	E00	4048	01	9.1	18	SF					32		F	
0099	ABST	09	0724	0734	0748	S17	W65	4046	01	4.4	24	SF					0734	87		D
	09	0911		0939	No Flare Patrol															
0100	09	1005	1005	1024	1024	S09	E28	4053	01	11.5	19	SN					69	.8		
	KANZ	09	1005	1005	1022	S09	E28	4053	01	11.5	17	SN				2				
	WEND	09	1005	1009	1026	S09	E27	4053	01	11.4	21	SF				C	1009	69	.8	

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						Region	Lat CMD								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0101	09	11316	11572	1238	S09 E26	4053	01	11.4	67	SN								
	KANZ	09	1131	1157	1237	S09 E27	4053	01	11.5	66	SN	2			94	1.1		
	WEND	09	1137	1159	1240	S09 E26	4053	01	11.4	63	SN		C	1159	94	1.1		
0102	KANZ	09	1240	1240	1256	S16 W06	4054	01	9.1	16	SF	2						
0103	KANZ	09	1310	1313	1333	N12 E10	4052A	01	10.3	23	SN	3					GL	
0104	KANZ	09	1343	1343	1350	N12 E02	4052A	01	9.7	7	SN	3						
		09	1404		1421	No Flare Patrol												
		09	1506		1517	No Flare Patrol												
0105	HOLL	09	1646	1651	1715	S16 W09	4054	01	9.0	29	SF C	1.0	3	C		31	F	
0106	HOLL	09	1734E	1737	1748	S16 W10	4054	01	9.0	14D	SN	3	C			71	F	
		09	1805		1809	No Flare Patrol												
0107	09	1820	1837	1908	S17 W68	4046	01	4.6	48	SB C	2.5					72	F	
	HOLL	09	1820	1837	1920	S16 W69	4046	01	4.5	60	SB C	2.5	3	C		88		
	PALE	09	1836E	1837	1855	S18 W68	4046	01	4.6	19D	SB C	2.5	3	C		56	F	
0108	PALE	09	1834E	1850	1933	S16 W11	4054	01	8.9	59D	SF	3	C			119	FZ	
0109	10	00582	0101	0116	S16 W12	4054	01	9.1	18	SN						57	.7	DFIJ
	LEAR	10	0058	0101	0116	S15 W13	4054	01	9.0	18	SF	3	C			51		F
	VORO	10	0100	0102U	0115	S16 W12	4054	01	9.1	15	SN		C	0102		63	.7	DIJ
0110	LEAR	10	0306	0315U	0334	S16 W13	4054	01	9.1	28	SF C	1.1	3	C			43	F
0111	LEAR	10	0510	0513	0519	S17 W14	4054	01	9.1	9	SF	3	C			32	F	
0112	YUNN	10	0655E	0657	0700	S15 W18	4054	01	8.9	5D	SN		P			94	1.0	E
0113	10	0809	08112	0821	S16 W16	4054	01	9.1	12	SF						79	.9	
	YUNN	10	0809	0811	0819	S16 W17	4054	01	9.0	10	SF		C			79	.9	
	KANZ	10	0810E	0813	0823	S16 W16	4054	01	9.1	13D	SF	2						
0114	10	09201	09202	0925	N13 W07	4051	01	9.9	5	SN						114	1.6	EFG
	CATA	10	0920	0920	0925	N13 W07	4051	01	9.9	5	1	2	P	0920		225	2.4	
	LEAR	10	0921	0922	0925	N13 W06	4051	01	9.9	4	SF	3	C			39		F
	YUNN	10	0921	0922	0926	N13 W07	4051	01	9.9	5	SN		C			79	.9	EG
	KANZ	10	0924E		0924D	N13 W07	4051	01	9.9	5D	SN	1						
0115	KANZ	10	1042	1058	1111	S18 W80	4046	01	4.3	29	SN	1						
0116	KANZ	10	1220	1227	1233	S19 W18	4054	01	9.1	13	SF	2						
0117	10	1352*	1352*	1410	S11 W18	4048	01	9.2	18	SN C	1.0					25		F
	RAMY	10	1352	1352	1403	S11 W18	4048	01	9.2	11	SF C	1.0	3	C		25		F
	KANZ	10	1406	1406	1416	S11 W18	4048	01	9.2	10	SB	2						
		10	1427		1948	No Flare Patrol												
0118	RAMY	10	1528	1530	1534	S18 W88	4046	01	3.9	6	SF	3	C					
		10	2015		2208	No Flare Patrol												
		10	2217		2241	No Flare Patrol												
0119	11	02261	02271	0236	S10 E04	4053	01	11.4	10	SF						59	.7	FIJ
	PALE	11	0226	0227	0236	S10 E04	4053	01	11.4	10	SF	3	C			65		
	VORO	11	0226	0228U	0239	S10 E04	4053	01	11.4	13	SF		C	0228		99	1.1	IJ
	LEAR	11	0227	0228	0234	S10 E04	4053	01	11.4	7	SF	3	C			40		F
	YUNN	11	0228E	0228U	0230D	S09 E04	4053	01	11.4	2D	SN		P	0228		31	.3	
0120	LEAR	11	0516	0516	0521	S16 E78	4058	01	17.1	5	SF	3	C					

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0121	KANZ	11	1238	1251	1304	S10	W31	4048	01	9.2	26	SF		2						L
0122		11	14365	14423	1452	S16	W30	4054	01	9.3	16	SF					36	.4	E	
	HTPR	11	1436	1442	1453	S15	W30	4054	01	9.3	17	SF			C	1442	40	.4	E	
	RAMY	11	1441	1445	1451	S16	W31	4054	01	9.3	10	SF		3	C		32			
0123	HOLL	11	1805	1807	1813	S13	W36	4048	01	9.0	8	SF		3	C			31		F
0124		11	1826	1829*	1853	S13	W36	4048	01	9.0	27	SN	C	1.0				43		K
	HOLL	11	1826	1829	1853	S13	W36	4048	01	9.0	27	SF		3	C			28		K
	HOLL	11	1826	1843	1853	S13	W36	4048	01	9.0	27	SN	C	1.0	3	C		58		K
0125		11	18327	18444	1849	S16	W35	4054	01	9.1	17	SF	C	1.0				43		
	RAMY	11	1832	1848	1930D	S17	W37	4054	01	9.0	58D	SF	C	1.0	3	C		48		
	PALE	11	1839	1844	1849	S16	W33	4054	01	9.3	10	SF	C	1.0	3	C		38		
0126	PALE	11	2039	2047	2059	S15	W37	4054	01	9.0	20	SF		3	C			50		
0127	LEAR	11	2339	2344	2358	N16	W22	4048D	01	10.3	19	SF		3	C			36		
0128	LEAR	12	0208	0210	0235	S14	W41	4054	01	9.0	27	SF		3	C			40		F
0129	VORO	12	0214	0218U	0224	S15	E68	4058	01	17.2	10	SF			C	0218		81		J
0130	LEAR	12	0633	0633	0642	S17	E63	4058	01	17.1	9	SF		3	C			23		F
0131	LEAR	12	0655	0655	0706	S16	W41	4054	01	9.2	11	SF		3	C			24		F
0132		12	09071	09083	0916	S15	E63	4058	01	17.1	9	SN						47	1.1	D
	YUNN	12	0907	0908	0911	S15	E64	4058	01	17.2	4	SN			C			47	1.1	D
	KANZ	12	0908	0911	0921	S15	E62	4058	01	17.1	13	SF		3						
0133	HTPR	12	0918	0922	0942	S10	W10	4053	01	11.6	24	SF			C	0922		20	.2	
0134	KANZ	12	0950	0950	0957	S10	W09	4053	01	11.7	7	SF		2						
0135	WEND	12	1032	1050	1122	S09	W11	4053	01	11.6	50	SB			C	1050		63	.7	E
0136		12	10332	1047*	1144	S10	W43	4048	01	9.2	71	1B						316	4.4	E
	KANZ	12	1033	1047	1133	S10	W42	4048	01	9.3	60	1B		3						
	HTPR	12	1035	1048	1150	S10	W43	4048	01	9.2	75	1B			C	1048		350	4.8	E
	CATA	12	1100E	1100	1150	S11	W43	4048	01	9.2	50D	1		2	P	1100		281	4.0	
0137		12	1247*	1049*	1255	S16	W42	4054	01	9.3	8	SN						82	1.6	E
	ATHN	12	1044E	1049	1106	S16	W44	4054	01	9.1	22D	1B		2	V	1049		159	2.3	
	RAMY	12	1247	1320	1325	S14	W43	4054	01	9.3	38	SF		3	C			26		
	KANZ	12	1318	1318	1328	S16	W41	4054	01	9.4	10	SN		2						
	HTPR	12	1318	1320	1340	S17	W42	4054	01	9.4	22	SF			C	1320		60	.8	E
0138		12	14008	1411	1428	N10	E74	4062	01	18.1	28	SN						30		
	HTPR	12	1400		1446D	N10	E75	4062	01	18.2	46D	SF			C	1409		30		
	KANZ	12	1408	1411	1428	N10	E72	4062	01	18.0	20	SN		2						
0139	WEND	12	1515	1517	1519D	S16	W45	4054	01	9.2	4D	SN			C	1517		38	.6	E
0140		12	1758	17581	1813	S16	W44	4054	01	9.4	15	SF	C	.8				66		F
	RAMY	12	1758	1758	1813	S17	W44	4054	01	9.4	15	SF	C	.8	3	C		75		F
	HOLL	12	1758	1759	1813	S16	W44	4054	01	9.4	15	SF	C	.8	3	C		57		F
0141		12	1906*	1912*	2041	N09	E72	4062	01	18.2	95	SN	C	3.2				25		
	HOLL	12	1906	1912	1951	N09	E72	4062	01	18.2	45	SN	C	3.2	4	C				
	HOLL	12	2117	2120	2131	N09	E71	4062	01	18.2	14	SF	C	5.3	3	C		25		
0142	HOLL	12	2131E	2131U	2145	N09	E90	4064	01	19.6	14D	SN		3	C					
0143	HOLL	12	2250	2256	2344	S06	W33	4052	01	10.5	54	SF		3	C			91		F
0144	HOLL	12	2319	2322	2341	S18	E53	4058	01	17.0	22	SF		3	C			17		

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0145		12	23352	23362	2352	S10	W50	4048	01	9.2	17	SF						33		
	LEAR	12	23355	2336	2357	S11	W50	4048	01	9.2	22	SF		3	C			34		
	HOLL	12	2337	2338	2348	S09	W50	4048	01	9.2	11	SF		3	C			32		
0146	VORO	13	0118	0120U	0126	S20	E52	4058	01	17.0	8	SF			C	0120		72	1.2	DJ
0147	LEAR	13	0151	0154	0200D	S11	W51	4048	01	9.2	9D	SF		3	C			23		
0148	GATA	13	1115	1115	1130D	S12	W34	4053A	01	10.9	15D	S		2	P	1115		112	1.4	
0149	HOLL	13	1549	1606	1630	N04	E48	4063	01	17.2	41	SF		3	C			25		F
0150		13	18074	18275	1948	S16	W16	4053A	01	12.5	101	2N C	3.9					444		FUY
	HOLL	13	1807	1827	1957	S16	W16	4053A	01	12.5	110	2N C	3.9	3	C			529		UY
	RAMY	13	1811	1832	1938	S16	W16	4053A	01	12.5	87	1N C	3.9	3	C			360		F
0151	HOLL	13	1922	1924	1931	N04	E46	4063	01	17.2	9	SF		3	C			22		
		13	2153		2158	No Flare Patrol														
0152	HOLL	13	2226	2226	2237	S15	E79	4065	01	19.9	11	SF		3	C					
		13	2312		2324	No Flare Patrol														
0153	LEAR	14	0550	0550	0554	N03	E65	4060	01	19.1	4	SF		3	C			15		
0154	HTPR	14	0853	0853	0913	S02	E62	4060	01	19.0	20	SF			C	0853		20	.4	
0155	HOLL	14	1642	1648	1652	N08	E61	4064	01	19.3	10	SF		3	C			11		
0156	PALE	14	1856E	1857U	1902	S11	E69	4065	01	20.0	6D	SF		3	C			18		
		14	2200		2214	No Flare Patrol														
		14	2233		2332	No Flare Patrol														
0157		15	00468	00523	0102	S11	W50	4053	01	11.3	16	SN C	1.4					50		F
	LEAR	15	0046	0052	0105	S12	W55	4053	01	10.9	19	SN C	1.4	3	C			32		
	LEAR	15	0054	0055	0058	S10	W45	4053	01	11.6	4	SF		3	C			68		F
0158	YUNN	15	0205	0208	0217	S13	E66	4065	01	20.1	12	SN			C			47		E
0159	VORO	15	0220	0222U	0229	N04	E30	4063	01	17.3	9	SF			C	0222		63	.7	DJ
0160	LEAR	15	0334	0334	0350	S13	E65	4065	01	20.0	16	SF		3	C			20		F
0161	LEAR	15	0531	0533	0537	S12	E63	4065	01	20.0	6	SN		3	C			19		
		15	1044		1101	No Flare Patrol														
		15	1107		1115	No Flare Patrol														
0162	HTPR	15	1228	1232	1236	N17	E78	4067	01	21.4	8	SF			C	1232		30		
0163	HTPR	15	1238	1245	1340	N05	E47	4060	01	19.0	62	SF			C	1245		20	.3	
0164		15	1336	13401	1350	S19	E22	4058	01	17.2	14	SB C	.9					85	.8	EF
	HTPR	15	1336	1340	1348	S20	E22	4058	01	17.2	12	SB			C	1340		80	.8	E
	RAMY	15	1336	1341	1351	S18	E21	4058	01	17.2	15	SN C	.9	3	C			90		F
		15	1551		1556	No Flare Patrol														
0165	RAMY	15	1626	1631	1645	N10	E48	4064	01	19.3	19	SF		3	C			37		
0166	RAMY	15	1632	1638	1704D	S17	E19	4058	01	17.1	32D	SF		3	C			93		
		15	1653		1705	No Flare Patrol														
		15	1748		1821	No Flare Patrol														
		15	2000		2009	No Flare Patrol														
		15	2201		2207	No Flare Patrol														

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Lat	CMD	Region								(10 ⁻⁶ Disk)	Corr (Sq Deg)	
0167		15	2239E	2240U	2306	N10	E43	4064	01	19.2	27D	SF				44		F
	LEAR	15	2239E	2240U	2309	N09	E44	4064	01	19.2	30D	SF	2	C		23		F
	PALE	15	2254E	2258U	2304	N12	E42	4064	01	19.1	10D	SF	3	C		66		F
0168	YUNN	16	0111	0112	0116	N16	E69	4067	01	21.3	5	SN		C		16		D
0169		16	02114	02143	0231	S12	W76	4048	01	10.4	20	SF				41		CDGJ
	VORO	16	0211	0217U	0225	S14	W75	4048	01	10.4	14	SF		C	0217	72		CDGJ
	PALE	16	0212	0217	0248	S12	W75	4048	01	10.4	36	SF	3	C		35		
	YUNN	16	0214E	0214	0224	S12	W77	4048	01	10.3	10D	SN		P		16		DG
	LEAR	16	0215	0216	0226	S12	W76	4048	01	10.4	11	SF	3	C				
0170		16	02595	02599	0311	S11	W76	4052	01	10.4	12	SF						
	LEAR	16	0259	0259	0309	S12	W76	4052	01	10.4	10	SF		C				
	PALE	16	0300	0303	0311	S13	W74	4052	01	10.5	11	SF		C				
	PALE	16	0304	0308	0313	S08	W79	4052	01	10.2	9	SF		C				
0171		16	0510	0514	0529	N05	E36	4060	01	18.9	19	SN				53	.8	DF
	YUNN	16	0510	0514	0525	N06	E36	4060	01	18.9	15	SN		C		63	.8	D
	LEAR	16	0510	0514	0533	N04	E35	4060	01	18.8	23	SN	3	C		43		F
0172	ABST	16	0843	0849U	0904U	N05	E11	4063	01	17.2	21U	SF		P	0849	87	.9	D
0173	HOLL	16	1941	1941	1946	N09	E35	4064	01	19.4	5	SF	3	C		26		F
0174		16	21003	21003	2118	N06	E26	4060	01	18.8	18	SN				28		F
	HOLL	16	2100	2100	2121	N06	E26	4060	01	18.8	21	SN	3	C		20		F
	PALE	16	2103	2103	2114	N07	E26	4060	01	18.8	11	SF	3	C		37		
0175	PALE	16	2110	2111	2113	N11	E33	4064	01	19.4	3	SF	3	C		31		
0176		16	2255*	2258*	2340	N09	E32	4064	01	19.3	45	SN C 3.0				38		EFK
	LEAR	16	2255	2259	2344	N09	E34	4064	01	19.5	49	SB C 3.0	3	C		68		FK
	LEAR	16	2255	2323	2344	N09	E34	4064	01	19.5	49	SF	3	C		24		K
	HOLL	16	2256	2258	2318	N09	E32	4064	01	19.3	22	SB C 3.0	3	C		52		F
	PALE	16	2257	2258	2307	N10	E32	4064	01	19.4	10	SB C 3.0	3	C		42		FE
	HOLL	16	2323	2323	2345D	N09	E32	4064	01	19.4	22D	SN C 4.0	3	C		19		
	HOLL	16	2348	2348	2411D	N10	E31	4064	01	19.3	23D	SF C 4.0	3	C		28		F
	LEAR	16	2349	2406	2426	N10	E32	4064	01	19.4	37	SF C 4.0	3	C		32		F
	0177	LEAR	17	0037	0039	0043	N10	E32	4064	01	19.4	6	SF	3	C		25	
0178	LEAR	17	0119	0119	0125	N10	E32	4064	01	19.4	6	SF	3	C		20		
0179		17	02118	02164	0228	S13	E37	4065	01	19.9	17	SF				39	.4	EF
	YUNN	17	0211	0216	0229	S12	E38	4065	01	19.9	18	SN		P		31	.4	E
	LEAR	17	0216	0220	0232	S13	E36	4065	01	19.8	16	SF	3	C		45		F
	PALE	17	0219	0220	0224	S13	E36	4065	01	19.8	5	SF	3	C		42		
0180		17	0258	02597	0313	N09	E32	4064	01	19.5	15	SN C 1.9				50		FK
	LEAR	17	0258	0259	0312	N09	E31	4064	01	19.4	14	SF	3	C		25		K
	LEAR	17	0258	0306	0312	N09	E31	4064	01	19.4	14	SN C 1.9	3	C		63		FK
	PALE	17	0258	0306	0314	N08	E33	4064	01	19.6	16	SN C 1.9	3	C		63		
0181	PALE	17	0329	0331	0338	N10	E28	4064	01	19.2	9	SF	3	C		20		
0182	YUNN	17	0330E	0331	0336D	S12	E38	4065	01	20.0	6D	SN		P		48	.6	E
0183		17	0345	0345*	0417	N09	E31	4064	01	19.5	32	SN C 1.1				34		FK
	LEAR	17	0345	0345	0417	N09	E31	4064	01	19.5	32	SN C 1.1	3	C		29		FK
	LEAR	17	0345	0402	0417	N09	E31	4064	01	19.5	32	SN C 1.0	3	C		39		K
0184	LEAR	17	0423	0425	0436	N10	E30	4064	01	19.4	13	SN	3	C		47		
0185		17	0550*	0550*	0607	N10	E29	4064	01	19.4	17	SN				77	1.5	
	LEAR	17	0550	0550	0555	N09	E29	4064	01	19.4	5	SF	3	C		34		
	LEAR	17	0558	0558	0618	N10	E29	4064	01	19.4	20	SF	3	C		33		
	YUNN	17	0559E	0600	0604	N12	E29	4064	01	19.4	5D	SN		P		113	1.4	
	YUNN	17	0606	0607	0610	N11	E29	4064	01	19.4	4	SN		C		129	1.6	

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0186	YUNN	17	0622	0623	0629	N07	E21	4060	01	18.8	7	1N			C		193	2.2		
0187	YUNN	17	0622	0623	0629	S15	E34	4065	01	19.8	7	SN			C		32	.4		
0188		17	0654*	0655*	0708	S13	E36	4065	01	20.0	14	SN					48	.6	E	
	YUNN	17	0654	0655	0658	S13	E36	4065	01	20.0	4	SN			C		48	.6	E	
	YUNN	17	0706	0707	0719	S13	E37	4065	01	20.1	13	SN			C		48	.6		
0189	KANZ	17	1106	1113	1120	S12	E31	4065	01	19.8	14	SF		1						
0190	KANZ	17	1146	1149	1156	N17	E51	4067	01	21.4	10	SF		1						
0191	KANZ	17	1255	1302	1318	S13	E32	4065	01	19.9	23	SN		1						
0192	KANZ	17	1351	1355	1401	N17	E49	4067	01	21.3	10	SN		1						
0193	KANZ	17	1355	1358	1418D	S12	E31	4065	01	19.9	23D	SN		1						
			17 1444		1452	No Flare Patrol														
			17 1510		1535	No Flare Patrol														
			17 1546		1615	No Flare Patrol														
			17 1659		1800	No Flare Patrol														
0194	PALE	17	1801E	1816U	1840	N17	E47	4067	01	21.3	39D	SF		3	C		153			
0195	PALE	17	1814	1816	1826	S12	E28	4065	01	19.9	12	SF		3	C		23		F	
0196	PALE	17	1919	1921	1934	N16	E45	4067	01	21.2	15	SF		3	C		23			
			17 2044		2259	No Flare Patrol														
0197	PALE	18	0312	0312	0320	N07	E08	4060	01	18.7	8	SF		3	C		21			
0198		18	0343	0343*	0450	N05	E09	4060	01	18.8	67	SN	C	.9			48		K	
	LEAR	18	0343	0343	0450	N05	E09	4060	01	18.8	67	SN	C	.9	3	C	45		K	
	LEAR	18	0343	0413	0450	N05	E09	4060	01	18.8	67	SF	C	.9	3	C	52		K	
0199	LEAR	18	0505	0505	0512	N06	E08	4060	01	18.8	7	SF		3	C		28			
0200		18	10081	1010*	1036	N06	E05	4060	01	18.8	28	SN					20	.2		
	KANZ	18	1008	1028	1034	N07	E05	4060	01	18.8	26	SF		2						
	HTPR	18	1009	1010	1037	N06	E05	4060	01	18.8	28	SB			C	1010	20	.2		
0201	KANZ	18	1256	1256	1310	N13	E00	4062A	01	18.5	14	SF		1						
0202	KANZ	18	1310	1310	1319	N15	E37	4067	01	21.3	9	SF		2						
0203		18	13493	1359*	1550	N15	E30	4067	01	20.8	121	SN					40	.4	L	
	HTPR	18	1349	1359	1550	N15	E28	4067	01	20.7	121	SF			C	1359	40	.4		
	KANZ	18	1352	1412	1435D	N15	E31	4067	01	20.9	43D	SN		2					L	
0204	RAMY	18	1511	1534	1544	N16	E35	4067	01	21.3	33	SF		3	C		76			
			18 1714		1752	No Flare Patrol														
			18 1815		1829	No Flare Patrol														
			18 2010		2014	No Flare Patrol														
			18 2031		2040	No Flare Patrol														
			18 2047		2104	No Flare Patrol														
			18 2147		2211	No Flare Patrol														
			18 2235		2255	No Flare Patrol														
			18 2303		2313	No Flare Patrol														
			19 0000		0007	No Flare Patrol														
0205		19	00531	0055	0104	N08	E04	4064	01	19.3	11	SF					66	.9	CD	
	VORO	19	0053	0056U	0104	N08	E04	4064	01	19.3	11	SF			C	0056	90	.9	CD	
	LEAR	19	0054	0055	0105	N08	E03	4064	01	19.3	11	SF		3	C		41			
0206	LEAR	19	0625	0625	0629	S16	E09	4065	01	19.9	4	SF		3	C		51		F	

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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
																	(10 ⁻⁶)	Disk	
0207	LEAR	19	0854	0857	0900	N10	W01	4064	01	19.3	6	SF		3	C		24		
0208	HTPR	19	1257	1304	1310	N13	W01	4064	01	19.5	13	SF			C	1304	20	.2	
0209	HTPR	19	1323	1324	1330	N10	W04	4064	01	19.2	7	SF			C	1324	20	.2	
0210	HTPR	19	1340	1345	1405	N15	E21	4067	01	21.1	25	SF			C	1345	60	.6	E
		19	2142		2200	No Flare Patrol													
0211	HTPR	20	1450		1510D	S15	W10	4065	01	19.9	20D	SF			C	1456	40	.4	
		20	1725		1833	No Flare Patrol													
		20	2017		2039	No Flare Patrol													
		20	2053		2249	No Flare Patrol													
0212		21	06382	06393	0710	N06	W35	4060	01	18.6	32	SN	C 1.8				99	1.4	FH
	LEAR	21	0638	0639	0652	N05	W32	4060	01	18.9	14	SF	C 1.8	3	C		72		F
	LEAR	21	0638	0639	0729	N06	W35	4060	01	18.6	51	SN	C 1.8	3	C		98		FH
	PEKG	21	0640	0642	0705	N07	W38	4060	01	18.4	25	SF	C 1.8		P	0642	105	1.4	F
	PURP	21	0641E	0641	0715	N05	W35	4060	01	18.7	34D	SN			P	0641	120	1.5	
0213		21	1058*	1105*	1145	N07	W38	4060	01	18.6	47	SF					40	.5	E
	KANZ	21	1058	1105	1108	N06	W37	4060	01	18.7	10	SF		1					
	HTPR	21	1100	1159	1235	N08	W40	4060	01	18.4	95	SF			C	1159	40	.5	E
	KANZ	21	1122	1125	1131	N07	W38	4060	01	18.6	9	SF		1					
0214		21	11141	11153	1128	N12	W22	4064	01	19.8	14	SF					40	.4	E
	HTPR	21	1114	1115	1130	N13	W22	4064	01	19.8	16	SF			C	1115	40	.4	E
	KANZ	21	1115	1118	1125	N10	W23	4064	01	19.7	10	SF		1					
0215	HTPR	21	1455	1458	1513	S12	E18	4068	01	23.0	18	SN			C	1458	80	.8	E
		21	1719		1732	No Flare Patrol													
		21	1742		1756	No Flare Patrol													
		21	1912		1921	No Flare Patrol													
		21	1936		1940	No Flare Patrol													
0216	KANZ	22	1037	1040	1047	N21	E50		01	26.3	10	SF		3					G
0217	HTPR	22	1138	1138	1139	S15	W41	4065	01	19.4	1	SF			C	1138	20	.3	
0218		22	13535	14008	1412	S16	W41	4065	01	19.5	19	SF					48	.7	H
	HTPR	22	1353	1400	1410	S16	W42	4065	01	19.4	17	SF			C	1400	20	.3	
	KANZ	22	1355	1408	1411	S15	W40	4065	01	19.5	16	SN		3					H
	WEND	22	1358	1408	1414	S16	W41	4065	01	19.5	16	SF			C	1408	75	1.1	
0219	PALE	22	2222E	2321U	2422D	N06	W60	4060	01	18.4	120D	SF	C 2.1	3	C		19		F
0220	HOLL	22	2345	2350	2358	S14	W46	4065	01	19.5	13	SF			C		37		
0221		23	0219	0222*	0306	S10	W03	4068	01	22.9	47	SF	C 1.4				151	1.7	EFGH
	LEAR	23	0219	0242	0311	S09	W02	4068	01	22.9	52	SF	C 1.4	3	C		124		FH
	PEKG	23	0220E	0222	0300	S10	W04	4068	01	22.8	40D	SF	C 1.4		C	0222	189	2.0	F
	PURP	23	0240E	0248	0308	S11	W04	4068	01	22.8	28D	SN			P	0248	139	1.4	GE
0222	LEAR	23	0552	0552	0604	N05	E73	4071	01	28.7	12	SF		3	C				H
0223		23	09161	09202	0934	N08	W70	4060	01	18.1	18	SF					38		G
	KANZ	23	0916	0920	0933	N07	W69	4060	01	18.2	17	SF		3					
	WEND	23	0917	0922	0934	N08	W71	4060	01	18.1	17	SF			C	0922	38		G
0224		23	0959	10023	1010	S20	W84	4058	01	17.0	11	SF					28		
	KANZ	23	0959	1002	1006	S19	W84	4058	01	17.0	7	SF		1					
	CATA	23	1005E	1005	1015	S20	W83	4058	01	17.1	10D	S		1	P	1005	28		
0225		23	11111	1115	1132	N13	W56	4064	01	19.2	21	SF					38	.7	G
	WEND	23	1111	1115	1136	N14	W57	4064	01	19.1	25	SF			C	1115	38	.7	G
	KANZ	23	1112	1115	1129	N12	W55	4064	01	19.3	17	SF		2					

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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)		
0226		23	11222	11253	1134	N17	W40	4067	01	20.4	12	SF						25	.4	G
	KANZ	23	1122	1125	1135	N16	W40	4067	01	20.4	13	SF		2						
	WEND	23	1124	1128	1132	N18	W41	4067	01	20.3	8	SF			C	1128		25	.4	G
0227	KANZ	23	1417	1417	1420	S13	W43	4065	01	20.3	3	SF		2						
		23	1733		1834															No Flare Patrol
		23	1857		1858															No Flare Patrol
		23	1912		1914															No Flare Patrol
		23	1922		1924															No Flare Patrol
		23	2028		2036															No Flare Patrol
		23	2054		2124															No Flare Patrol
		23	2128		2129															No Flare Patrol
		23	2203		2225															No Flare Patrol
0228	LEAR	24	0123E	0123U	0125	S13	W60	4065	01	19.5	20	SF		3	C			61		
0229	VORO	24	0219	0222U	0227	N04	W72	4060	01	18.7	8	SF			C	0222		81		CDJ
0230	PEKG	24	0220E	0220	0220D	N12	E75	4073B	01	29.7	80	SF			P	0220		17		D
0231	LEAR	24	0737	0738	0744	N06	E76	4071	01	30.0	7	SF	C 1.1	3	C					
0232	WEND	24	0910		0939	N12	E80	4073B	01	30.4	29	SF			C	0922		19		
0233		24	0914E	09163	0922	N07	E75	4071	01	30.0	8	SF	C 3.0					44		D
	WEND	24	0914	0916	0924	N07	E75	4071	01	30.0	10	SF	C 3.0		C	0916		25		
	YUNN	24	0915E	0917	0920	N07	E77	4071	01	30.1	50	1N	C 3.0		C			64		D
	LEAR	24	0916	0919	0923	N07	E73	4071	01	29.8	7	SF	C 3.0	3	C					
0234		24	09565	10012	1034	N08	E76	4071	01	30.1	38	SF	C 3.1					34		
	WEND	24	0956	1003	1122	N07	E76	4071	01	30.1	86	SF			C	1003		25		
	WEND	24	0958	1001	1016	N07	E77	4071	01	30.2	18	SF	C 3.1		C	1001		44		
	LEAR	24	1001	1001	1005	N10	E75	4071	01	30.0	4	SF	C 3.1	3	C					
0235	HOLL	24	1611	1611	1619	N06	W79	4060	01	18.8	8	SF	C .6	3	C					
0236	HOLL	24	1744	1803	1824D	N10	W69	4064	01	19.5	400	SF	C 1.2	3	C			34		
0237	HOLL	24	1802	1805	1807	S09	E48	4072	01	28.3	5	SF		3	C			44		
		24	1948		1954															No Flare Patrol
		24	2008		2300															No Flare Patrol
		24	2322		2326															No Flare Patrol
0238	PALE	25	0021E		0021	S06	E29	4072	01	27.2	50	SF		3	C			21		F
0239	LEAR	25	0256	0303	0308	N07	E66	4071	01	30.1	12	SF		3	C			14		
0240	LEAR	25	0459	0501	0505	N07	E63	4071	01	29.9	6	SF	C 1.0	3	C			14		
0241	LEAR	25	0820	0822	0834	N07	E61	4071	01	29.9	14	SF		3	C			28		
0242	LEAR	25	0932	0934	0956D	N04	E41	4073	01	28.5	240	SF		3	C			18		
0243	KHAR	25	0954U	0954U	0957U	N06	E62	4071	01	30.0	30	SF			V	0954				
0244	KHAR	25	1015U		1027U	S15	E90	4074	02	1.2	120	SF			V	1019				H
0245		25	1140E	1140	1154	S07	E37	4072	01	28.2	140	SF								L
	KANZ	25	1140E	1140	1154	S06	E36	4072	01	28.2	140	SF		2						
	KHAR	25	1149U		1154U	S08	E38	4072	01	28.3	50	SF			V	1149				L
0246	KHAR	25	1147U		1200U	S03	E42	4073A	01	28.6	130	SF			V	1147				H
0247	KANZ	25	1233	1240	1243	N07	E62	4071	01	30.2	10	SF		2						
0248	KANZ	25	1240	1240	1246	N05	E41	4073	01	28.6	6	SF		2						

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	CMD	Region								Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0249	25	13136	1323	1348	N04	E39	4073	01	28.5	35	SN					63	.9	EK	
	KANZ	25	1313	1323	1349	N04	E39	4073	01	28.5	36	SF							
	HTPR	25	1317E		1332D	N04	E39	4073	01	28.5	15D	SN		C	1323	60	.8	EK	
	RAMY	25	1319	1323	1346	N05	E40	4073	01	28.5	27	SF		C		50			
	HTPR	25	1323E		1603D	N04	E37	4073	01	28.3	160D	SN		C	1350	80	1.0	E	
	25	1407		1409	No Flare Patrol														
	25	1414		1422	No Flare Patrol														
	25	1432		1435	No Flare Patrol														
	25	1438		1536	No Flare Patrol														
0250	RAMY	25	1515	1516	1528	S16	E87	4074	02	1.2	13	SF				3	C		
	25	1541		1548	No Flare Patrol														
	25	1609		1644	No Flare Patrol														
0251	HOLL	25	1645E	1645U	1718	N02	E37	4073A	01	28.5	33D	SF	C	.9	3	C		131	
	25	1651		1653	No Flare Patrol														
	25	1832		1839	No Flare Patrol														
	25	1925		1932	No Flare Patrol														
	25	1957		1958	No Flare Patrol														
	25	2136		2141	No Flare Patrol														
0252	PALE	25	2221	2221	2232	S08	E30	4072	01	28.2	11	SF				3	C	19	
0253	PURP	26	0030E	0034	0041	S09	E29	4072	01	28.2	11D	SF			0034	13	.2	E	
0254	PURP	26	0041	0051	0055	N05	E36	4073	01	28.7	14	SN			0051	66	.9	E	
0255	26	01048	0116	0124	N06	E35	4073	01	28.7	20	SN				49	.8	CDJ		
	VORO	26	0104	0110U	0122	N06	E35	4073	01	28.7	18	SN		C	0110	81	1.0	CDJ	
	PURP	26	0111	0116	0129	N05	E36	4073	01	28.7	18	SN		C	0116	46	.6		
	LEAR	26	0112	0116	0120	N06	E34	4073	01	28.6	8	SF		C		20			
0256	26	02136	0220*	0224	N04	E32	4073	01	28.5	11	SF	C	1.2		32		F		
	PALE	26	0213	0230	0232D	N04	E32	4073	01	28.5	19D	SF	C	1.2	3	C	41		F
	LEAR	26	0219	0220	0224	N05	E33	4073	01	28.6	5	SF		C	3	C	22		F
0257	PALE	26	0319	0321	0328	S07	E27	4072	01	28.2	9	SF				3	C	39	
0258	LEAR	26	0336	0336	0341	S08	E27	4072	01	28.2	5	SF				3	C	25	
0259	26	0527	0528.1	0534	S17	E74	4074	01	31.8	7	SN	C	1.0		53		F		
	LEAR	26	0527	0528	0532	S17	E77	4074	02	1.1	5	SF	C	1.0	3	C		F	
	PURP	26	0528E	0529	0537	S17	E72	4074	01	31.7	9D	SN		C	0529	53			
0260	LEAR	26	0619	0620	0627	N06	E30	4073	01	28.5	8	SF				3	C	33	
0261	26	0805	0815	0824	N04	E32	4073	01	28.7	19	SN				22	.3			
	PURP	26	0805	0815	0828	N05	E32	4073	01	28.7	23	SN			0815	13	.2		
	HTPR	26	0813E		0819	N04	E32	4073	01	28.7	6D	SF		C	0814	30	.4		
0262	RAMY	26	1355	1356	1411	N05	E28	4073	01	28.7	16	SN				3	C	29	
0263	HOLL	26	1605	1616	1626	N03	E27	4073	01	28.7	21	SF				3	C	40	
0264	26	1626*	1626*	1644	S18	E71	4074	02	1.1	18	SF				25				
	HOLL	26	1626	1626	1633	S17	E72	4074	02	1.1	7	SF			3	C	25		
	HOLL	26	1637	1637	1654	S18	E70	4074	02	1.0	17	SF			3	C	25		
0265	HOLL	26	1739	1741	1804	S18	E70	4074	02	1.1	25	SF	C	1.0	3	C		34	
0266	HOLL	26	1920	1922	1930	S19	E72	4074	02	1.3	10	SF				3	C	11	
0267	HOLL	26	2125E	2129	2140	N03	E12	4073	01	27.8	15D	SF				2	C	40	
0268	27	02374	02433	0256	S14	E77	4075	02	1.9	19	SF	C	2.5					F	
	LEAR	27	0237	0243	0256	S16	E75	4075	02	1.8	19	SF	C	2.5	3	C		F	
	PALE	27	0241	0246	0255	S12	E79	4075	02	2.1	14	SF	C	2.5	3	C			

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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)		
0269	PURP	27	0258	0300	0301	S08	E20	4072	01	28.6	3	SF			C	0300	13	.1		
0270		27	0300*	0302*	0305	N07	E19	4073	01	28.5	5	SF					69	1.0	DF	
	YUNN	27	0300	0302	0305	N08	E20	4073	01	28.6	5	SN			C		161	1.8	D	
	PEKG	27	0301E	0302	0304	N07	E19	4073	01	28.5	3D	SF			P	0302	84	.9	D	
	PALE	27	0301	0302	0307	N07	E18	4073	01	28.5	6	SF		3	C		36		F	
	PURP	27	0301	0303	0305	N05	E18	4073	01	28.5	4	SN			C	0303	40	.4		
	LEAR	27	0301	0303	0307	N06	E19	4073	01	28.5	6	SF		3	C		62			
	PALE	27	0311	0326	0328D	N07	E18	4073	01	28.5	17D	SF		3	C		31		F	
0271		27	0310*	0325*	0351	S14	E74	4075	02	1.7	41	1N M	1.2				108		DEFK	
	PALE	27	0310	0325	0328D	S12	E78	4075	02	2.0	18D	SF		3	C					
	LEAR	27	0330	0338	0357	S15	E73	4075	02	1.7	27	1N M	1.2	3	C				F	
	MITK	27	0332	0338	0350	S12	E75	4075	02	1.8	18	1N			C	0338	210		E	
	PEKG	27	0334E	0336	0348	S16	E72	4075	02	1.6	14D	SN M	1.2		P	0336	71		DK	
	PEKG	27	0334E	0341	0348	S15	E72	4075	02	1.6	14D	SN M	1.2		P	0341	59		E	
	PURP	27	0342	0344	0352	S16	E73	4075	02	1.7	10	1N			C	0344	93			
0272	LEAR	27	0535	0536	0541	N05	E20	4073	01	28.7	6	SF		2	C		80		F	
0273	LEAR	27	0829	0829	0842	S14	E74	4075	02	1.9	13	SF		3	C		11			
		27	1131		1139	No Flare Patrol														
0274	HPR	27	1410	1412	1414	S07	E13	4072	01	28.6	4	SF			C	1412	20	.2		
		27	1808		1815	No Flare Patrol														
		27	1828		1835	No Flare Patrol														
		27	1844		1857	No Flare Patrol														
		27	2058		2124	No Flare Patrol														
0275		27	21247	21328	2150	S16	E62	4075	02	1.6	26	SN C	.9				63			
	PALE	27	2124	2132	2155	S14	E64	4075	02	1.7	31	SN C	.9	3	C		104			
	HOLL	27	2131	2140	2144	S17	E61	4075	02	1.5	13	SF		2	C		22			
0276	PALE	27	2127	2129	2132	N03	E12	4073	01	28.8	5	SF		2	C		33			
0277	HOLL	27	2158	2158	2201	N06	E06	4073	01	28.4	3	SF		3	C		32		F	
0278		28	00411	00433	0048	N06	E05	4073	01	28.4	7	SN C	.8				57	.7	DEFIJ	
	LEAR	28	0041	0043	0047	N06	E05	4073	01	28.4	6	SF C	.8	3	C		41		F	
	VORO	28	0041	0044U	0050	N07	E05	4073	01	28.4	9	SN			C	0044	90	.9	DIJ	
	PURP	28	0042	0044	0049	N06	E05	4073	01	28.4	7	SN			C	0044	16	.2		
	YUNN	28	0042	0046	0048	N07	E05	4073	01	28.4	6	SN C	.8		P		80	.9	E	
0279	PALE	28	0215	0225	0233	S17	E67	4077	02	2.2	18	SF		2	C		43		F	
0280	LEAR	28	0305	0305	0310	N07	E04	4073	01	28.4	5	SF		3	C		23			
0281		28	06042	06072	0627	N02	E01	4073	01	28.3	23	SN					59	.8	E	
	YUNN	28	0604	0608	0620	N03	E01	4073	01	28.3	16	SN			P		113	1.2	E	
	LEAR	28	0606	0607	0634	N02	E02	4073	01	28.4	28	SF		3	C		39			
	PURP	28	0608E	0609	0626	N01	E01	4073	01	28.3	18D	SN			C	0609	26	.3		
0282		28	0750	07511	0802	S08	W08	4072	01	27.7	12	SN C	.9				82	1.2		
	LEAR	28	0750	0751	0805	S09	W08	4072	01	27.7	15	SF C	.9	3	C		51			
	YUNN	28	0750	0752	0800	S08	W08	4072	01	27.7	10	SN C	.8		C		113	1.2		
0283		28	11221	1123	1130	N07	W00	4073	01	28.5	8	SN					70	.7	E	
	HPR	28	1122		1130D	N07	W01	4073	01	28.4	8D	SF			C	1125	70	.7	E	
	KANZ	28	1123	1123	1130	N07	W00	4073	01	28.5	7	SB		3						
0284	KANZ	28	1219		1219D	S12	E60	4075	02	2.0	7D	SF		2						
0285	HPR	28	1434	1437	1457	S09	W12	4072	01	27.7	23	SF			C	1437	20	.2		
0286	HPR	28	1435	1440	1457	S13	E59	4075	02	2.0	22	SF			C	1440	40	.8	E	

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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	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0287		28	1435	1436	1444	S10	W04	4072	01	28.3	9	SN	C	.9			92	.8	E	
	HTPR	28	1435	1436	1443	S10	W04	4072	01	28.3	8	SN			C	1436	80	.8	E	
	RAMY	28	1435	1436	1445	S09	W04	4072	01	28.3	10	SN	C	.9	3	C	103			
0288	HOLL	28	1638	1640	1650	N06	W02	4073	01	28.5	12	SF			3	C	67			
0289	HOLL	28	1727	1729	1737	S16	E59	4075	02	2.2	10	SF			3	C	15			
0290		28	1834	1835	1857	N06	W04	4073	01	28.5	23	SN					56		F	
	HOLL	28	1834	1835	1910	N06	W04	4073	01	28.5	36	SF			3	C	63		F	
	RAMY	28	1834	1836	1844	N07	W04	4073	01	28.5	10	SN			3	C	50			
0291	HOLL	28	2101	2106	2143	S09	W12	4072	01	28.0	42	SF			3	C	78			
0292	HOLL	28	2224	2227	2240	S17	E55	4077	02	2.1	16	SF	C	.8	3	C	61		F	
0293		28	2308	2309	2316	S12	W12	4072	01	28.0	8	SN	C	1.3			112		F	
	HOLL	28	2308	2309	2314	S12	W11	4072	01	28.1	6	SN	C	1.3	3	C	130		F	
	LEAR	28	2309E	2309U	2317	S12	W12	4072	01	28.1	8D	SF	C	1.3	3	C	95		F	
0294	LEAR	29	0401	0402	0418	S15	E50	4075	02	1.9	17	SF			3	C	45			
0295		29	0509E	0512	0526	S15	E44	4075	02	1.5	17D	1N	C	1.8			106	2.3	F	
	YUNN	29	0509E	0512	0516	S15	E44	4075	02	1.5	7D	1N	C	1.8		P	161	2.3		
	LEAR	29	0509E	0513U	0537	S15	E44	4075	02	1.5	28D	SN	C	1.8	3	C	52		F	
0296	LEAR	29	0531	0532	0544	N04	W12	4073	01	28.3	13	SF			3	C	33			
0297		29	0641	0642	0654	N04	W12	4073	01	28.4	13	SN					78	1.2	F	
	YUNN	29	0641	0645	0653	N05	W13	4073	01	28.3	12	SN				C	113	1.2		
	LEAR	29	0643	0644	0654	N03	W12	4073	01	28.4	11	SF			3	C	43		F	
0298	CATA	29	0815E	0835	0850	S14	E48	4075	02	2.0	35D	S			1	P	0835	112	1.7	
0299		29	0906	0910	0930	N03	W13	4073	01	28.4	24	SF					50	.4	F	
	LEAR	29	0906	0910	0935	N03	W12	4073	01	28.5	29	SF			3	C	59		F	
	HTPR	29	0912E		0925	N03	W14	4073	01	28.3	13D	SF				C	0912	40	.4	
0300		29	12023	12069	1217	N06	W11	4073	01	28.7	15	SF					50	.5	E	
	HTPR	29	1202	1206	1211	N06	W13	4073	01	28.5	9	SF				C	1206	60	.6	
	HTPR	29	1205	1215	1223	N06	W09	4073	01	28.8	18	SF				C	1215	40	.4	
0301	HTPR	29	1301	1303	1311	S15	E53	4077	02	2.5	10	SN				C	1303	20	.3	
0302	RAMY	29	1510	1510	1541	S15	E48	4075	02	2.3	31	SF	C	.9	3	C	43			
0303	HOLL	29	1540	1543	1608	N06	W15	4073	01	28.5	28	SF			3	C	37			
0304	HOLL	29	1629	1630	1640	S10	W42	4070	01	26.5	11	SF			3	C	28		F	
0305		29	1639	1647	1701	N04	W17	4073	01	28.4	22	SN	C	2.3			192		F	
	HOLL	29	1639	1647	1659	N05	W17	4073	01	28.4	20	SN	C	2.3	3	C	201		F	
	RAMY	29	1639	1647	1703	N04	W17	4073	01	28.4	24	SN	C	2.3	3	C	183		F	
0306	RAMY	29	1745	1757	1813	S19	E57	4077	02	3.1	28	SF			3	C	15			
0307	HOLL	29	1757	1805	1814	S07	W23	4072	01	28.0	17	SF			3	C	37			
		29	1837		1936	No Flare Patrol														
0308	HOLL	29	1937E	1937U	1958D	N07	W17	4073	01	28.5	21D	SF			3	C	54			
0309	HOLL	29	1937E	1937U	1958D	S15	E37	4075	02	1.6	21D	SN			3	C	98		F	
		29	1949		1950	No Flare Patrol														
		29	2016		2017	No Flare Patrol														
0310	LEAR	29	2354	2403	2410	N03	W22	4073	01	28.3	16	SF	C	1.0	3	C	26			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)		
0311		30	05002	0502	0515	N04	W24	4073	01	28.4	15	SN	C	1.0			45	.7		
	YUNN	30	0500	0502	0516	N04	W25	4073	01	28.3	16	SN	C	1.0		C	64	.7		
	LEAR	30	0502	0502	0514	N03	W23	4073	01	28.5	12	SF	C	1.0	3	C	26			
0312	LEAR	30	0622	0622	0632	S20	E46	4077	02	2.8	10	SF				3	C	19		
		30	1021		1034														No Flare Patrol	
		30	1046		1104														No Flare Patrol	
		30	1211		1217														No Flare Patrol	
		30	1224		1229														No Flare Patrol	
		30	1251		1551														No Flare Patrol	
		30	1601		1753														No Flare Patrol	
		30	1911		1923														No Flare Patrol	
		30	1954		2014														No Flare Patrol	
		30	2125		2143														No Flare Patrol	
		30	2149		2219														No Flare Patrol	
0313	PALE	30	2301	2303	2314	S11	E80	4079	02	6.0	13	SF	C	1.9	3	C				
0314	PALE	30	2355	2355	2404	S16	E23	4075	02	1.7	9	SF						32		
0315	PALE	31	0019	0019	0024	S18	E36	4077	02	2.7	5	SF						24		
0316		31	0106	0106	0120	S18	E36	4077	02	2.8	14	SF	C	.9				28	F	
	PALE	31	0106	0106	0119	S18	E35	4077	02	2.7	13	SF	C	.9	3	C		27		
	LEAR	31	0106	0106	0120	S19	E36	4077	02	2.8	14	SF	C	.9	2	C		29	F	
0317		31	0139*	01541	0207	S18	E36	4077	02	2.8	28	SF						80	2.2	EF1J
	VORO	31	0139	0152U	0206	S19	E36	4077	02	2.8	27	1F				C	0152	170	2.2	E1J
	LEAR	31	0146	0154	0207	S19	E36	4077	02	2.8	21	SF				2	C	42		F
	PALE	31	0152	0155	0207	S17	E35	4077	02	2.7	15	SF				3	C	28		F
0318		31	01525	01571	0200	N07	W12	4071	01	30.2	8	SF						54	1.0	CDFH
	VORO	31	0152	0157U	0200	N07	W13	4071	01	30.1	8	SF				C	0157	90	1.0	CD
	LEAR	31	0157	0157	0200	N06	W12	4071	01	30.2	3	SF				2	C	30		
	PALE	31	0157	0158	0200	N07	W12	4071	01	30.2	3	SF				3	C	43		FH
0319		31	03501	0352	0356	S18	E35	4077	02	2.8	6	SF						38	.5	
	LEAR	31	0350	0352	0356	S18	E35	4077	02	2.8	6	SF				3	C	35		
	MANI	31	0351	0352	0357	S18	E35	4077	02	2.8	6	SF				1	V	40	.5	
0320		31	0411	04161	0426	S18	E34	4077	02	2.8	15	SF	C	1.0				44	.6	F
	MANI	31	0411	0416	0425	S18	E33	4077	02	2.7	14	SF				1	V	45	.6	F
	LEAR	31	0411	0417	0427	S18	E34	4077	02	2.8	16	SF	C	1.0	3	C		42		F
0321		31	0417	0418	0425	S14	E20	4075	02	1.7	8	SF						28	.3	
	LEAR	31	0417	0418	0425	S14	E21	4075	02	1.8	8	SF				3	C	26		
	MANI	31	0419E	0419U	0423D	S14	E20	4075	02	1.7	4D	SF				1	V	30	.3	
0322		31	0448	04552	0536	S09	W42	4072	01	28.0	48	SF						66	.8	
	LEAR	31	0448	0457	0536	S09	W42	4072	01	28.0	48	SF				3	C	71		
	MANI	31	0450E	0455	0520D	S09	W41	4072	01	28.1	30D	SF				1	V	60	.8	
0323		31	0455	0456	0500	S16	E32	4077	02	2.6	5	SF	C	.9				23	.2	
	LEAR	31	0455	0456	0501	S16	E32	4077	02	2.6	6	SF	C	.9	3	C		26		
	MANI	31	0456E	0456	0500	S16	E33	4077	02	2.7	4D	SF				1	V	20	.2	
0324	RAMY	31	1144E	1145U	1150	S08	W43	4072	01	28.3	6D	SN	C	2.1	3	C		89		
0325	RAMY	31	1248	1259	1308	N05	W41	4073	01	28.5	20	SF						26		
0326	PALE	31	1822	1828	1846	S18	E26	4077	02	2.7	24	SF						47		
0327	PALE	31	1853	1903	1941	S16	E23	4077	02	2.5	48	SF	C	1.9	3	C		82		
0328	PALE	31	1946	1949	1955	S10	W52	4072	01	27.9	9	SF						18		
0329	RAMY	31	2031	2037	2042	S18	E25	4077	02	2.7	11	SN						58		

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Jan 83

H - ALPHA SOLAR FLARES

JANUARY 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	Area Measurement			Remarks
																Time (UT)	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
0330	PALE	31	2200	2203	2212	S15	E26	4077	02	2.9	12	SF	C	1.0	3	C		159	
0331	PALE	31	2228	2230	2242	S15	E26	4077	02	2.9	14	SF			3	C		60	
0332	PALE	31	2316	2320	2326	S13	E16	4075	02	2.2	10	SF			3	C		39	

"Remarks":

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.

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.