

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mil. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST												
GRP70960	02	0336	0339+3	0349D	S32	W17	.545	15739	31.9	13	-N						J	
VORO	02	0336	0339	0349	S33	W22	.592	15739	31.5	13	1F	C	0339	179	2.2		EJ	
CULG	02	0339E	0342	0425	S32	W13	.520	15739	1.2	46D	-N	P	0342	150	1.9		F	
961 CULG	02	0339E	0339E	0406	N12	E40	.676	15745	5.2	27D	-F	P	0339	30	.4		Y5	
962 CULG	02	0340	0351	0411	N12	W61	.887	15726	28.6	31	-F	C	0351	70	1.5		Y5	
963 CULG	02	0629	0639U	0651	S34	W03	.515	15739	2.0	22	-F	C	0639	50	.6		F Y5	
964 CULG	02	0709	0713	0732	S33	W07	.509	15739	1.8	23	-N	C	0713	50	.6		Y5	
965 CATA	02	0725E	0730	0735	S12	E35	.585	0	4.9	10D	-F	1 P	0730	140	1.5		Y5	
966 CULG	02	0747	0757D	0757D	N18	W59	.881	0	28.9	10D	-F	P	0757	40	.8		Y5	
967 CATA	02	0803E	0810D	0835	N14	E37	.649	15745	5.1	32D	-N	1 P	0803	28	1.8		Y5	
	02	1033	1039	NO FLARE PATROL														
	02	1209	1310	NO FLARE PATROL														
	02	1320	1536	NO FLARE PATROL														
968 RAMY	02	1704	1704	1714	S17	W28	.512	15733	31.6	10	-B	2 C		23			Y5	
969 RAMY	02	1725	1725	1730	N12	E31	.564	15745	5.1	5	-N	3 C		20			Y5	
970 RAMY	02	1734	1736	1742	N11	W66	.922	15726	28.8	8	-B	3 C		57			Y5	
971 RAMY	02	1742	1746	1812	S12	E16	.312	15741	3.9	30	-B	3 C		83			Y5	
972 BIGB	02	1747	1754	1805	S32	E02	.484	0	2.9	18	-N	1 C	1754	15			Y5	
973 RAMY	02	1825	1828	1835	N25	E74	.974	15750	8.3	10	-N	3 C		28			Y5	
GRP70974	02	1910	1911	2007	S19	E22	.450	15746	4.4	57	-B						E	
FAMY	02	1910	1911	2018	S20	E20	.435	15746	4.3	68	-B	3 C		58				
HUAN	02	1928E		1955	S19	E25	.487	15746	4.7	27D	-F	1 P	1930	50	.5		E	
975 RAMY	02	1915	1921	1933	N11	W67	.928	15726	28.8	18	-B	3 C		28			Y5	
GRP70976	02	1922+9	1946	2016	S13	E15	.306	15741	3.9	54	-N							
			2014															
RAMY	02	1922	1946	2016	S12	E15	.297	15741	3.9	54	-B	* C		95			F	
HUAN	02	1945		2009	S13	E15	.306	15741	3.9	24	-N	* P	2001	60	.6		E	
HUAN	02	2013	2014	2016	S13	E13	.279	15741	3.8	3	-F	* C	2014	25	.3		D	
977 BIGB	02	2038	2043	2102	S31	E36	.693	0	5.6	24	-N	2 C	2043	15			Y5	
GRP70978	02	2046+5	2051+0	2103	S13	E13	.279	15741	3.8	17	-N			40	.4		D	
			2057															
HUAN	02	2046		2054D	S14	E12	.277	15741	3.8	8D	-N	2 P	2051	20	.2		D	
CULG	02	2048	2051	2111	S13	E11	.254	15741	3.7	23	-N	C	2051	30	.3			
RAMY	02	2051	2051	2055	S12	E14	.283	15741	3.9	4	-B	3 C		45				
HOLL	02	2051	2051	2055	S13	E15	.306	15741	4.0	4	-B	2 C		53				
HOLL	02	2057	2057	2103	S13	E15	.306	15741	4.0	6	-N	2 C		22				
979 BIGB	02	2057	2100	2108	S19	E39	.660	0	5.8	11	-N	2 C	2100	25			Y5	
980 BIGB	02	2103	2106	2115	N15	E45	.744	0	6.3	12	-N	2 C	2106	20			Y5	
981 HOLL	02	2157	2159	2202	S12	E14	.283	15741	4.0	5	-B	2 C		61			Y5	
GRP70982	03	0005+0	0006+1	0011	S12	E08	.205	15741	3.6	6	-N			35	.4		DH	
VORO	03	0005	0007	0010	S13	E08	.218	15741	3.6	5	-N	C	0007	54	.5		DH	
CULG	03	0005	0006	0012	S12	E08	.205	15741	3.6	7	-B	C	0006	20	.2			
983 VORO	03	0008	0021	0038	S21	E23	.478	15746	4.7	30	1F	C	0021	179	2.0		EL Y5	
GRP70984	03	0044+1	0045	0100	S13	E13	.278	15741	4.0	16	-N			110	1.1		EH	
			0053+0															
VORO	03	0044	0045	0055	S13	E08	.218	15741	3.6	11	-N	C	0045	45	.4		DH	
CULG	03	0045	0053	0103	S13	E14	.291	15741	4.1	18	-N	C	0053	100	1.0		T	
VORO	03	0050	0053	0057	S15	E15	.324	15741	4.2	7	-N	C	0053	125	1.3		E	

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION				CMP DAY	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.					
					LAT.	MER. DIST															
GRP70985	03	0254+1	0256+1	0304	S14	E13	.288	15741	4.1	10	-F										
CULG	03	0254	0257	0306	S13	E12	.265	15741	4.0	12	-F	C	0257	50	.5				E		
VORO	03	0255	0256	0302	S15	E14	.311	15741	4.2	7	-N	C	0256	40	.4				T		
														63	.6				E		
986 VORO	03	0323	0327	0337	S13	E06	.198	15741	3.6	14	-N	C	0327	54	.5			DH	Y5		
987 CULG	03	0359U	0436U	0458	N21	E72	.963	15750	8.6	590	?F	C	0436	100				S	Y5		
		IMP.1 NO	MITK																		
988 CULG	03	0410	0415	0424	S10	E09	.194	15741	3.8	14	-F	C	0415	20	.2			T	Y5		
989 CULG	03	0436	0437	0449	S12	E11	.242	15741	4.0	13	-N	C	0437	40	.4			FT	Y5		
990 CULG	03	0601	0606	0633	N20	E70	.953	15750	8.5	32	1B	C	0606	90					Y5		
991 CULG	03	0618	0620	0627	S13	E05	.190	15741	3.6	9	-F	C	0620	20	.2			T	Y5		
992 CULG	03	0629	0633	0642	S21	W36	.633	15733	31.6	13	-N	C	0633	30	.4				Y5		
993 CULG	03	0658	0702	0714	S21	W37	.644	15733	31.5	16	-N	C	0702	40	.5				Y5		
994 CULG	03	0731	0737	0746	N26	E70	.959	15750	8.6	15	-N	C	0737	50					Y5		
995 CULG	03	0735	0741	0804	N17	W60	.887	15751	29.8	29	-B	C	0741	80	1.6				Y5		
996 CULG	03	0746	0747	0800	S11	E08	.192	15741	3.9	14	-N	C	0747	40	.4			T	Y5		
997 MONT	03	1037	1042	1049	S13	E03	.177	15741	3.7	12	-N	C	1042	70				DH	Y5		
998 MONT	03	1128	1130	1132	S11	E08	.192	15741	4.1	4	-F	C	1130	50				E	Y5		
GRP70999	03	1135+0	1136+3	1147	S34	E20	.587	15740	5.0	12	-F								DH		
MCNT	03	1135	1136	1148	S34	E20	.587	15740	5.0	13	-N	C	1136	50					DH		
KANZ	03	1135	1139	1146	S34	E20	.587	15740	5.0	11	-F	1							D		
GRP71000	03	1139+0	1139+1	1145	S13	E02	.173	15741	3.6	6	-N								DH		
KANZ	03	1139	1139	1143	S14	E02	.190	15741	3.6	4	-B	1									
MONT	03	1139	1140	1147	S13	E03	.177	15741	3.7	8	-N	C	1140	70					DH		
GRP71001	03	1225+9	1237+0	1246	S33	E20	.576	15740	5.0	21	-N			45	.5				H		
KANZ	03	1225	1237	1249	S34	E20	.587	15740	5.0	24	-F	1									
CATA	03	1235	1235	1235D	S33	E21	.583	15740	5.1		-N	1	P	1235	56	1.7					
RAMY	03	1235E	1237	1243	S33	E19	.569	15740	4.9	8D	-N	2	C	33					H		
2 KANZ	03	1305	1305	1308	N26	W05	.495	15743	3.2	3	-F	1							G	Y5	
	03	1312	1327	NO FLARE PATROL																	
	03	1338	1422	NO FLARE PATROL																	
3 MCMA	03	1440	1442	1451	S34	E18	.574	15740	5.0	11	-N	C	1442	40	.5			DH	Y5		
	03	1508	1531	NO FLARE PATROL																	
GRP71004	03	1535	1605+3	1655	S14	W47	.738	15733	31.1	80	-B			130	1.9						
MCMA	03	1535	1605	1658	S15	W48	.751	15733	31.0	83	1N	C	1605	125	7.0				E		
RAMY	03	1605E	1608	1652	S14	W47	.738	15733	31.1	47D	-B	2	C	142					F		
GRP71005	03	1600	1602+6	1612	N27	E64	.931	15750	8.5	12	-N			35					E		
MCMA	03	1600	1602	1611	N27	E65	.937	15750	8.5	11	-B	C	1602	50	1.5				E		
RAMY	03	1605E	1608	1613	N28	E64	.933	15750	8.5	8D	-N	2	C	17							
GRP71006	03	1719+1	1721+0	1730	S12	E01	.153	15741	3.8	11	-N			80	.8				E		
MCMA	03	1719	1721	1729	S13	W01	.170	15741	3.6	10	-N	C	1721	100	1.1				E		
RAMY	03	1720	1721	1731	S12	E03	.161	15741	3.9	11	-B	2	C	62							
7 MCMA	03	1725	1731	1735	N27	E65	.937	15750	8.6	10	-F	C	1731	30	.9			D	Y5		
8 RAMY	03	1804	1806	1809	N25	E61	.910	15750	8.3	5	-N	2	C	21					Y5		
GRP71009	03	1807+0	1809+2	1838	S12	E01	.153	15741	3.8	31	-B			100	1.0				EU		
RAMY	03	1807	1809	1810D	S12	E02	.156	15741	3.9	4D	-B	2	C	87							
HUAN	03	1807	1811	1840	S14	E03	.194	15741	4.0	33	-N	2	C	1811	85	.8			E		
PALE	03	1810E	1810U	1823D	S12	E01	.153	15741	3.8	13D	-B	3	C	120					U F		
MCMA	03	1818E		1836	S13	W01	.170	15741	3.7	18D	-N	C	1822	40	.4				E		
10 RAMY	03	1902	1903	1905	S12	E02	.156	15741	3.9	3	-B	3	C	25					Y5		

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP71011	03	2143	2147+5	2214D	S12	W02	.156	15741	3.8	31	-B		90	.9			
CULG	03	2143	2147	2214	S13	W03	.177	15741	3.7	31	-B	C	2147	100	1.0		
PALE	03	2149E	2152U	2255D	S12	W01	.153	15741	3.8	66D	-B	3 C		90		FDE	
12 CULG	03	2309	2315U	2334	N18	W68	.941	15751	29.9	25	-F	C	2315	40		Y5	
GRP71013	04	0058+2	0104+5	0124	S12	W01	.151	15741	4.0	26	-N			60	.6	EJ	
CULG	04	0058	0109	0132	S12	W02	.154	15741	3.9	34	-N	C	0109	40	.4		
VORO	04	0100	0104	0115	S12	E00	.190	15741	4.0	15	-N	C	0104	90	.9	EJ	
14 VORO	04	0104	0105	0107	S20	E76	.969	15748	9.7	3	-N	C	0105	36		E Y5	
GRP71015	04	0218+4	0227+2	0251	S19	W22	.448	15742	2.4	33	-F					EJ	
CULG	04	0218	0229	0303	S19	W22	.448	15742	2.4	45	-N	C	0229	70	.8		
VORO	04	0222	0227	0238	S20	W22	.456	15742	2.4	16	-F	C	0227	170	1.9	EJ	
16 CULG	04	0331	0344	0356	S13	W08	.216	15741	3.5	25	-F	C	0344	20	.2	Y5	
17 CULG	04	0508	0513	0525	N22	E55	.861	15750	8.3	17	-F	C	0513	60	1.2	Y5	
GRP71018	04	0555	0558	0613	S13	W07	.206	15741	3.7	18	-N					E	
CULG	04	0555	0558	0613	S13	W07	.206	15741	3.7	18	-N	C	0558	40	.4		
TACH	04	0602E		0612	S13	W07	.206	15741	3.7	100	-N	C	0604	106	1.1	E	
GRP71019	04	0712	0800	0820	N18	W78	.984	15751	29.4	68	-N			60		DG	
CULG	04	0712	0800	0830D	N19	W78	.984	15751	29.5	78D	-N	P	0800	40			
TACH	04	0759E		0809	N18	W79	.987	15751	29.4	100	-N	C	0800	80		DG	
20 CULG	04	0729	0738	0803	S23	W60	.876	15733	30.8	34	-F	C	0738	80	1.6	Y5	
21 CULG	04	0752	0860	0830D	S35	W45	.791	15739	1.0	38D	-N	C	0800	60	1.0	Y5	
22 CULG	04	0807	0808	0813	S13	W08	.216	15741	3.7	6	-F	C	0808	10	.1	Y5	
23 CULG	04	0827	0829U	0830D	S19	W24	.472	15742	2.6	3D	-N	P	0829	30	.3	Y5	
24 RANY	04	1145E	1150	1204D	N16	W77	.988	15751	29.7	19D	-N	2 C		39		Y5	
	04	1210	1306	NO FLARE PATROL													
	04	1316	1411	NO FLARE PATROL													
25 MCMA	04	1418	1420	1425D	S15	E66	.913	15748	9.5	7D	-N	C	1420	60	1.5	E Y5	
	04	1425	1427	NO FLARE PATROL													
26 HUAN	04	1457	1459	1506	S11	E67	.919	15748	9.6	9	-F	1 C	1459	20		D Y5	
	04	1518	1523	NO FLARE PATROL													
	04	1631	1708	NO FLARE PATROL													
GRP71027	04	1948+3	1950+1	1957	N17	W85	.998	15751	29.4	9	-N						
MCMA	04	1948	1950	1955D	N17	W88	1.000	15751	29.2	7D	-N	P	1950				
HOLL	04	1951	1951	1957	N17	W82	.993	15751	29.7	6	-N	3 C					
28 CULG	04	1958E	1958E	2021	S19	W65	.908	15733	31.0	23D	?F	P	1958	110	2.8	BF Y5	
		IMP.1	NO	HOLL													
29 CULG	04	2021	2029	2048	N18	W08	.387	15744	4.2	27	-N	C	2029	70	.8	Y5	
30 HOLL	04	2222	2222	2228	S17	E57	.844	15748	9.2	6	-N	2 C		31		Y5	
31 HOLL	04	2228	2232	2244	S17	E57	.844	15748	9.2	16	-N	2 C		52		F Y5	
32 HOLL	04	2246	2257	2307	S17	E57	.844	15748	9.2	21	-N	2 C		29		F Y5	
GRP71033	05	0010+5	0018	0107D	S19	E54	.819	15748	9.1	57	?N					EIJL	
		0033															
CULG	05	0010	0033	0340	S23	E50	.789	15748	8.8	21D	N	C	0033	780	13.3	IL	
		IMP.3	IMP.S														
VORO	05	0015	0018	0022	S13	E60	.866	15748	9.5	7	-N	C	0018	90	1.7	EJ	
VORO	05	0101	0102	0107	S18	E58	.853	15748	9.4	6	-N	C	0102	90	1.7	J	

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA	CORR AREA	
					LAT.	MER. DIST											
GRP71034	05	0100+6	0108 0115+0	0130	S35	W07	.533	15740	4.5	30	-N			35	.4	J	
CULG	05	0100	0115	0158	S35	W08	.536	15740	4.4	58	-F	C	0115	40	.5	EJ	
VORO	05	0106	0108	0130	S35	W07	.533	15740	4.5	24	-N	C	0108	125	1.5	F	
MANI	05	0114E	0115U	0130	S34	W01	.508	15740	5.0	160	-N	3 C		30			
GRP71035	05	0110	0113+2	0122	S11	W12	.243	15741	4.1	12	-N					EJ	
VORO	05	0110	0113	0121	S11	W14	.272	15741	4.0	11	-N	C	0113	81	.8	EJ	
MANI	05	0114E	0115U	0123	S11	W10	.216	15741	4.3	90	-N	3 C		25			
36 CULG	05	0216	0217	0225	N11	W03	.255	15745	4.9	9	-F	C	0217	30	.3	Y5	
37 VORO	05	0257	0259	0304	S18	W70	.939	15733	30.9	7	-N	C	0259	27		D Y5	
38 CULG	05	0321	0324	0333	S31	W14	.508	15740	4.1	12	-N	C	0324	40	.5	Y5	
39 CULG	05	0340	0346	0359	S15	W70	.938	15733	30.9	19	-N	C	0346	30		Y5	
40 CULG	05	0508	0517	0532	N25	E24	.599	0	7.0	24	?N	C	0517	140	2.2	Y5	
		IMP.1	NO	MITK													
41 CULG	05	0606	0607	0624	N10	E45	.729	15749	8.6	18	-F	C	0607	40	.6	Y5	
GRP71042	05	0706+1	0710+1	0721	S22	W50	.787	15733	1.5	15	-N			100	1.6	EJ	
CULG	05	0706	0710	0727	S22	W51	.796	15733	1.5	21	-N	C	0710	80	1.4		
ASST	05	0707	0711	0715	S23	W50	.789	15733	1.5	8	1F	P	0711	131	2.0	EJ	
43 TACH	05	0723E	0724	0729D	N16	W90	1.000	15751	29.6	60	-B	C	0724	150		D Y5	
44 ABST	05	0747	0750	0800	S36	W10	.557	15740	4.6	13	-F	C	0750	87	1.1	D Y5	
45 KANZ	05	1058	1102	1106	N15	W04	.324	15745	5.2	8	-F	1				Y5	
46 KANZ	05	1312	1312	1319	N26	E39	.742	15750	8.5	7	-B	2				Y5	
47 KANZ	05	1347	1351	1402	S23	W06	.348	15746	5.1	15	1N	2				UG Y5	
	05	1406	1433	NO FLARE PATROL													
48 HUAN	05	1525		1540D	S37	W15	.591	15740	4.5	150	-N	1 P	1531	30	.3	Y5	
	05	1549	1550	NO FLARE PATROL													
	05	1555	1603	NO FLARE PATROL													
	05	1610	1824	NO FLARE PATROL													
GRP71049	05	1826	1851	2001	S35	W17	.577	15740	4.5	95	1B			220	2.7		
RAMY	05	1826	1851U	2001	S35	W18	.583	15740	4.4	95	1B	3 C		417		F	
MCMA	05	1833E		1913D	S37	W16	.596	15740	4.6	400	1B	C	1841	175	2.2	E	
PALE	05	1836E	1836U	1930D	S35	W17	.577	15740	4.5	540	1B	2 C		267			
50 RAMY	05	1904	1904	1910	S20	W42	.696	15742	2.6	6	-N	3 C		23		Y5	
51 RAMY	05	1926	1927	1935	S16	E47	.741	15748	9.3	9	-N	2 C		68		Y5	
52 CULG	05	2015	2018	2028	N18	E83	.995	15754	12.1	13	-N	C	2018	20		Y5	
53 CULG	05	2020	2023	2037	S17	W52	.796	15742	1.9	17	-F	C	2023	20	.3	Y5	
54 CULG	05	2029	2030	2036	N14	E87	.999	15754	12.4	7	-N	C	2030	40		Y5	
55 CULG	05	2202	2220	2333	S25	W85	.995	15734	30.5	91	?N	C	2220	120		Y5	
		IMP.1	NO	PALE													
56 CULG	05	2257	2259	2307	S33	W23	.595	15740	4.2	10	-F	C	2259	20	.2	Y5	
GRP71057	05	2303+6	2307+2	2320	N16	W34	.627	15744	3.4	17	-N					F	
CULG	05	2303	2307	2326	N17	W33	.622	15744	3.5	23	-N	C	2307	80	1.0		
PALE	05	2309	2309	2313	N15	W35	.633	15744	3.3	4	-N	3 C		18		F	
58 CULG	05	2307	2313	2326	N14	E80	.988	15754	12.0	19	-N	C	2313	40		Y5	
59 CULG	05	2333	2336	2346	S09	W88	.999	15733	30.4	13	-N	* C	2336	20		Y5	
GRP71060	06	0005+7	0018+3	0101	S22	W53	.814	15742	2.0	56	-N			100	1.7	FU	
MITK	06	0005		0105	S21	W53	.812	15742	2.0	60	1F	C	0016	230	4.0	FU	
PALE	06	0012	0021	0056	S22	W49	.776	15742	2.3	44	-N	3 C		70		U	
MANI	06	0015E	0018	0033D	S23	W60	.875	15742	1.5	180	-B	3 C		100		U	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk			CORR AREA Sq. Deg.
					LAT.	MER. DIST.												
61	ARST	06 0850E	0853	0855D	N16	W42	.718	15744	3.2	50	-F	P	0853	87	1.3	D	Y5	
62	KANZ	06 0909	0943	0959	S32	W26	.608	15740	4.4	50	-F	1				E	Y5	
63	KANZ	06 0955	1019	1023	N23	E85	.998	15754	12.8	28	-F	1					Y5	
GRP71064	HTPR	06 1111+4	1114+6	1127	N14	E70	.949	15754	11.7	16	-N			50			D	
	KANZ	06 1111	1114	1122	N14	E68	.938	15754	11.6	11	-N	C	1114	30	.7		D	
	LOCA	06 1115E	1120	1127	N14	E70	.949	15754	11.7	12D	-N	V	1120	51	1.8			
	CATA	06 1120E	1120	1120D	N16	E70	.950	15754	11.7		-N	2	P	1120	56	1.7		
65	HTPR	06 1248	1248	1252	N10	E30	.542	15749	8.8	4	-F	C	1248	10	.1		Y5	
66	KANZ	06 1317	1317	1325	N10	E27	.502	15749	8.6	8	-N	1					Y5	
67	MCMA	06 1535E		1620	S13	W37	.612	15741	3.9	45D	-F	C	1546	40	.5	E	Y5	
68	BIGB	06 1746	1751	1757	N17	E70	.951	15754	12.0	11	-N	3	C	1751	75		D	Y5
		06 1800	1825	NO FLARE PATROL														
69	RAMY	06 2056E	2056U	2109	S20	W56	.838	15742	2.7	13D	-N	2	C		22			Y5
70	RAMY	06 2056E	2056U	2109	S20	W78	.976	15733	1.8	13D	-B	2	C		19		F	Y5
71	RAMY	06 2056E	2111	2125D	N26	W50	.836	15755	3.1	29D	-F	* C		32			Y5	
GRP71072	PALE	06 2115>9	2115	2140	N24	E24	.590	15750	8.7	25	-N							
	BIGB	06 2115E	2115U	2135D	N26	E24	.610	15750	8.7	20D	-N	1	C		40		F	
		06 2125	2128	2140	N22	E25	.579	15750	8.8	15	-N	3	C	2128	75		D	
		06 2125	2130	NO FLARE PATROL														
		06 0633	0643	NO FLARE PATROL														
		06 0647	0724	NO FLARE PATROL														
		06 0750	0755	NO FLARE PATROL														
73	CULG	06 2355	2357	0008	S21	E31	.571	15748	9.3	13	-F	C	2357	20	.2		Y5	
GRP71074	CULG	07 0159+3	0204+3	0217	N20	E22	.531	15750	8.7	18	-N						EJ	
	VORO	07 0144	0207	0225	N19	E22	.520	15750	8.7	41	-N	C	0207	100	1.2		EJ	
	PALE	07 0159	0205	0217	N20	E22	.531	15750	8.7	18	1F	C	0205	242	2.9		DE	
		07 0202	0204	0211	N25	E20	.568	15750	8.6	9	-N	3	C		56			
75	CULG	07 0416	0423	0503	S12	W46	.722	15741	3.7	47	-N	C	0423	80	1.1		Y5	
76	CULG	07 0427	0436	0450	S21	W64	.902	15742	2.4	23	-N	C	0436	60	1.4		Y5	
77	CULG	07 0544	0557	0616	N19	E18	.482	15750	8.6	32	-N	C	0557	70	.8		Y5	
78	CULG	07 0555	0609	0634	S20	E30	.552	15748	9.5	39	-F	C	0609	20	.2		Y5	
79	CULG	07 0623	0658U	0826	N18	E17	.460	15750	8.5	123	1N	C	0658	420	4.6	JI	Y5	
80	KANZ	07 0855	0858	0906	N26	W57	.888	15755	3.1	11	-F	1				T	Y5	
81	KANZ	07 0946	0949	0956	N11	W32	.575	15745	5.0	10	-F	1					Y5	
82	HTPR	07 1002	1004	1010	S36	W38	.739	15740	4.6	8	-F	C	1004	20	.3		Y5	
83	KANZ	07 1100	1115	1123	S13	W46	.724	15741	4.0	23	-N	1					Y5	
84	RAMY	07 1159E	1313U	1314D	N26	W59	.901	15755	3.1	75D	-B	2	C		50		Y5	
85	RAMY	07 1221	1221	1221D	N12	E08	.302	15749	8.1		-N	2	C		41		Y5	
86	KANZ	07 1253	1257	1320	S21	W80	.983	15733	1.5	27	-N	1					Y5	
87	RAMY	07 1314	1315	1328	N12	E08	.302	15749	8.2	14	-N	2	C		88		Y5	
88	RAMY	07 1330	1340	1404D	N12	E07	.295	15749	8.1	34D	-N	2	C		64		Y5	
89	RAMY	07 1330	1344	1442	N26	W59	.901	15755	3.1	72	-N	* C		26			Y5	
90	RAMY	07 1753	1800	1806	N12	E05	.283	15749	8.1	13	-B	3	C		43		F	Y5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR. AREA	
					LAT.	MER. DIST											
GRP71091	07	1845+6	1854 1905	1925	N22	E10	.462	15750	8.5	40	-N						
RAMY	07	1845	1854	1934	N19	E10	.418	15750	8.5	49	-N	3	C		73		F
PALE	07	1851	1905	1915	N25	E11	.509	15750	8.6	24	-N	3	C		49		DE
	07	1943	1945	NO FLARE PATROL													
	07	1950	1954	NO FLARE PATROL													
92 RAMY	07	2032	2036	2039	N23	E14	.500	15750	8.9	7	-8	3	C		25		Y5
	07	2107	2118	NO FLARE PATROL													
GRP71093	07	2228+5	2233+1	2248	N22	E69	.952	15754	13.1	20	-F						
CULG	07	2228	2234	2248	N22	E68	.947	15754	13.0	20	-N		C	2234	60		
HOLL	07	2233	2233	2237D	N23	E71	.962	15754	13.3	40	-F	2	C				
94 CULG	07	2232	2235	2240	N17	W62	.903	15744	3.3	8	-F		C	2235	30	.7	Y5
95 CULG	07	2232	2235	2254	S18	E35	.604	0	10.6	22	-F		C	2235	50	.6	G Y5
96 BIGB	07	2303E	2303U	2303D	N26	E67	.947	15754	13.0		-N	2	P				Y5
97 BIGB	07	2304E	2304	2304D	N11	E67	.929	15754	13.0		-N	2	P				Y5
98 CULG	07	2355	2359	0009	S21	E32	.582	0	10.4	14	-F		C	2359	20	.2	Y5
GRP71099	08	0223+6	0234+2	0317	N17	E52	.823	15754	12.0	54	18				260	4.5	
MITK	08	0223	0236	0317	N18	E54	.843	15754	12.1	54	18		C	0236	270	5.1	
CULG	08	0223	0243	0358	N17	E54	.841	15754	12.1	95	18		C	0243	260	4.7	
KODA	08	0228	0234	0257	N20	E51	.823	15754	11.9	29	2N		P	0238	783	8.1	CE
PALE	08	0229	0234	0236D	N17	E47	.775	15754	11.6	70	18	3	C		121		F
100 CULG	08	0314	0319	0342	S19	W88	.999	15733	1.5	28	-N		C	0319	20		Y5
101 CULG	08	0338	0345	0408	S37	W47	.812	15740	4.6	30	-F		C	0345	20	.3	Y5
102 CULG	08	0611	0626	0744	S24	W65	.911	0	3.4	93	?N		C	0626	140	3.1	GFK Y5
		IMP.1 NO	MITK														
103 CULG	08	0728	0748U	0823	S17	E14	.326	15748	9.4	55	-F		C	0748	50	.5	Y5
104 KANZ	08	0808	0812	0824	N11	E02	.258	15749	8.5	16	-F	1					Y5
GRP71105	08	0816+4	0820+5	0830	S14	W59	.857	15741	3.9	14	-F						
CULG	08	0816	0825	0832D	S14	W60	.866	15741	3.8	160	-N		C	0825	30	.6	
KANZ	08	0820	0820	0828	S14	W59	.857	15741	3.9	8	-F	1					
106 KANZ	08	0921	0921	0925	S17	E13	.315	15748	9.4	4	-N	2					Y5
107 KANZ	08	1007	1015	1023	N17	E03	.359	15750	8.6	16	-N	2					L Y5
108 KANZ	08	1031	1034	1042	N14	E60	.884	15754	12.9	11	-N	2					Y5
109 KANZ	08	1228	1235	1243	N15	W72	.960	15744	3.1	15	-F	1					Y5
GRP71110	08	1303>9	1306	1353D	S17	E10	.283	15748	9.3	50	-F						
KANZ	08	1303	1306	1347D	S17	E11	.293	15748	9.4	440	-F	1					
HUAN	08	1323		1353D	S17	E09	.274	15748	9.2	30D	-F	1	P	1344	30	.3	
	08	1353	1356	NO FLARE PATROL													
111 HUAN	08	1407	1407	1431	N10	W05	.253	15749	8.2	24	-N	2	C	1407	40	.4	E Y5
112 HUAN	08	1410	1411	1415	S18	E12	.316	15748	9.5	5	-F	1	C	1411	50	.5	Y5
113 HUAN	08	1442	1442	1504	N18	E46	.769	15754	12.1	22	-N	2	C	1442	80	1.3	E Y5
	08	1505	1509	NO FLARE PATROL													
114 HUAN	08	1509E		1515D	S18	E10	.297	15748	9.4	6D	-N	1	P	1510	50	.5	E Y5
	08	1515	1535	NO FLARE PATROL													
115 BIGB	08	1548E	1548	1548D	N17	E57	.866	15754	12.9		-N	1	P				Y5
116 HUAN	08	1627	1630	1631	N08	W05	.222	15749	8.3	4	-F	1	C	1630	40	.4	Y5

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA <small>Mill of Disk</small>		CORR. AREA <small>Sq. Deg.</small>
					LAT.	MER. DIST.											
	08	1647	1648	NO FLARE PATROL													
117 HUAN	08	1730		1738	N09	W06	.244	15749	8.3	8	-F	1	C				Y5
GRP71118	08	1751+3	1757+0	1809	N11	W04	.264	15749	8.4	18	-N			50	.5	0	
HUAN	08	1751	1757	1809	N16	W04	.248	15749	8.4	18	-N	1	C	1757	60	.6	
BIGB	08	1754	1757	1808	N12	W03	.277	15749	8.5	14	-N	1	P	1757	20		
MCMA	08	1755E		1802D	N11	W04	.264	15749	8.4	7D	-N		P	1756	50	.5	0
119 BIGB	08	1754	1829	1839	N18	E56	.860	15754	12.9	45	-N	1	P	1829	10		Y5
	08	1819	1939	NO FLARE PATROL													
120 BIGB	08	1843	1844	1846	S17	E19	.388	15748	10.2	3	-N	2	C	1844	10		Y5
121 BIGB	08	1919	1924	1932	N08	W04	.216	15749	8.5	13	-N	1	C	1924	60		Y5
122 BIGB	08	1954	2020	2143	N25	E80	.992	15759	14.8	109	-N	1	P	2020	15		Y5
	08	2001	2020	NO FLARE PATROL													
123 BIGB	08	2010	2030	2110	N09	W07	.252	15749	8.3	60	-N	2	C	2030	60		Y5
GRP71124	08	2025>9	2135	2145D	N15	W79	.986	15744	2.9	80	-N						
BIGB	08	2025	2151	2223	N15	W80	.989	15744	2.9	118	-N	2	C	2151	25		
CULG	08	2130	2135	2145	N16	W79	.986	15744	3.0	15	-N		C	2135	40		
125 BIGB	08	2035	2133	2147	N15	E54	.836	15754	12.9	72	-N	2	C	2133	60		Y5
	08	2112	2116	NO FLARE PATROL													
GRP71126	08	2118>9	2135+1	2155D	N09	W08	.260	15749	8.3	37	-F			70	.7		
BIGB	08	2118	2135	2143	N09	W07	.252	15749	8.4	25	-N	2	C	2135	60		
CULG	08	2131	2136	2155	N10	W10	.293	15749	8.1	24	-F		C	2136	80	.8	
BIGB	08	2145	2153	2227	N07	W06	.214	15749	8.5	42	-N	1	C	2153	120		
127 CULG	08	2222	2225	2250	S36	W61	.903	15740	4.4	28	-N		C	2225	60	1.3	Y5
GRP71128	08	2232+0	2236+2	2255	N15	W79	.986	15744	3.0	23	-N			35			
CULG	08	2232	2238	2255	N16	W79	.986	15744	3.0	23	-N		C	2238	40		
BIGB	08	2232	2236	2254	N15	W80	.989	15744	2.9	22	-N	1	C	2236	25		
129 BIGB	08	2305	2315	2335	N07	W06	.214	15749	8.5	30	-N	1	C	2315	120		Y5
130 BIGB	08	2307	2330	2350	N16	E53	.829	15754	12.9	43	-N	3	C	2330	30		Y5
131 CULG	08	2332	2338	0000	S18	W90	1.000	15742	2.2	28	-N		C	2338	40		Y5
132 CULG	09	0005	0012	0026	N13	E52	.812	15754	12.9	21	-F		C	0012	80	1.4	Y5
133 CULG	09	0100	0131	0316	N18	W08	.395	15750	8.4	136	?N		C	0131	300	3.3	S Y5
		IMP.1	NO	MITK													
134 CULG	09	0124	0129	0139	N27	E75	.980	15759	14.7	15	-F		C	0129	20		T Y5
135 CULG	09	0125	0127	0135	S32	W68	.936	15740	4.0	10	-N		C	0127	40	1.0	Y5
136 CULG	09	0134	0138	0150	N17	E41	.714	15754	12.1	16	-F		C	0138	40	.6	Y5
137 CULG	09	0311	0315	0345	N18	W85	.998	15744	2.8	34	?N		C	0315	80		T Y5
		IMP.1	NO	MITK													
138 CULG	09	0333	0336	0339	S31	W69	.940	15740	4.0	6	-F		C	0336	40	1.0	Y5
139 CULG	09	0344	0350	0426	N09	W11	.291	15749	8.3	42	-N		C	0350	80	.8	T Y5
140 CULG	09	0419	0425	0440	S22	E88	.998	15762	15.8	21	-F		C	0425	40		G Y5
141 ABST	09	0558E	0607	0610	N14	E49	.786	15754	12.9	12D	-N		P	0607	87	1.5	DJ Y5
GRP71142	09	0610+4	0615+1	0627	N18	W87	1.000	15744	2.7	17	?N						EJ
CULG	09	0610	0615	0630	N19	W85	.998	15744	2.9	20	N		C	0615	40		
		IMP.S	IMP.2														
ABST	09	0614	0616	0624	N18	W89	1.000	15744	2.6	18	2N		C	0616	218		EJ
143 ABST	09	0721	0725	0745	N15	E35	.636	15754	11.9	24	-N		C	0725	87	1.2	D Y5

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk			CORR AREA Sq Deg.	
					LAT.	MER. DIST.													
144	ABST	09	0729	0732	0740	S17	F02	.229	15748	9.5	11		C	0732	174	1.8	EJ	Y5	
145	KAND	09	0844	0845	0855	N21	W85	.998	15744	3.0	11	-N	C					Y5	
146	ABST	09	0903	0905	0906D	N14	E49	.786	15754	13.1	30	-N	P	0905	87	1.5	DJ	Y5	
147	KAND	09	0907	0908	0912	N15	E46	.758	15754	12.8	5	-F	C		73	1.1		Y5	
148	KAND	09	0920	0926	0941	N25	W90	1.000	15755	2.6	21	-N	C					Y5	
149	KAND	09	0936	0952	0952D	N18	W85	.998	15744	3.0	160	2N	C					Y5	
GRP71150		09	1528	1533	1547	N18	E40	.708	15754	12.6	19	-N						F	
	RAMY	09	1528	1533	1546	N15	E39	.682	15754	12.6	18	-N	3	C		119		F	
	RAMY	09	1531	1538	1547	N22	E42	.750	15754	12.8	16	-N	3	C		83		F	
151	RAMY	09	1539	1541	1551	N09	W18	.376	15749	8.3	12	-N	3	C		32		Y5	
152	RAMY	09	1625	1627	1632	N09	W19	.389	15749	8.3	7	-N	3	C		40		F	Y5
153	RAMY	09	1634	1634	1639	N09	W19	.389	15749	8.3	5	-N	3	C		23		Y5	
154	HUAN	09	1636	1639	1647	N30	W23	.648	0	8.0	11	-F	1	C	1639	35	.4	E	Y5
155	RAMY	09	1752	1753	1802	S34	W68	.938	15740	4.6	10	-B	3	C		17		Y5	
156	RAMY	09	1755	1756	1804	N09	W20	.403	15749	8.2	9	-B	3	C		27		Y5	
GRP71157		09	1906+2	1910+2	1917	N08	W20	.395	15749	8.3	11	-N				60	.7		
	RAMY	09	1906	1912	1917	N09	W20	.413	15749	8.3	11	-B	2	C		57		F	
	HUAN	09	1908	1910	1916	N08	W21	.408	15749	8.2	8	-F	1	C	1910	65	.7	E	
158	HUAN	09	1919		1927D	N10	W17	.373	15749	8.5	80	-F	1	P	1923	40	.4	E	Y5
GRP71159		09	2008+9	2009	2042	S34	W69	.942	15740	4.7	34	-N						F	
	RAMY	09	2008	2009	2053D	S34	W70	.947	15740	4.6	450	-B	2	C		35		F	
	HOLL	09	2024	2026	2031	S35	W69	.943	15740	4.7	7	-N	2	C		39			
GRP71160		09	2023+1	2025+6	2043	N08	W19	.381	15749	8.4	20	-N				50	.5	F	
	RAMY	09	2023	2031	2053D	N09	W21	.416	15749	8.3	300	-B	2	C		47		F	
	HOLL	09	2024	2025	2032	N08	W18	.367	15749	8.5	8	-N	2	C		47			
		09	2137	2142														NO FLARE PATROL	
		09	2157	2212														NO FLARE PATROL	
		09	2217	2221														NO FLARE PATROL	
161	CULG	09	2221E	2233U	2250D	S30	W60	.885	0	5.4	290	-N	P	2233	80	1.7		Y5	
162	CULG	09	2230	2245	2250D	S38	W71	.955	15740	4.6	200	-N	P	2245	60			Y5	
163	CULG	10	0032	0041	0125	S18	W21	.420	15748	8.4	53	-N	C	0041	100	1.1	L	Y5	
164	CULG	10	0039	0053	0104	S22	E88	.998	15762	16.6	25	-N	C	0053	20			Y5	
165	CULG	10	0258	0300	0306	S12	W81	.986	15741	4.0	8	-N	C	0300	10			Y5	
166	CULG	10	0510	0513	0521	S27	E58	.864	15763	14.6	11	-N	C	0513	40	.9		Y5	
167	CULG	10	0515	0519	0529	S17	W12	.301	15748	9.3	14	-N	C	0519	30	.4		Y5	
168	CULG	10	0526	0528	0538	N18	E33	.633	15754	12.7	12	-F	C	0528	60	.8		Y5	
169	ABST	10	0611	0616	0625	N16	E37	.665	15754	13.0	14	-N	C	0616	87	1.2	D	Y5	
170	ABST	10	0646	0649	0700	N08	W28	.506	15749	8.2	14	1N	C	0649	174	2.1	UJ	Y5	
GRP71171		10	0721+4	0723	0733	N16	E36	.654	15754	13.0	12	-N						D	
	CULG	10	0721	0723	0733	N15	E36	.648	15754	13.0	12	-N	C	0723	80	1.0		D	
	ISTA	10	0725		0732	N18	E36	.666	15754	13.0	7	-N						D	
172	ISTA	10	0840		0846	N08	W29	.520	15749	8.2	6	-F						D	Y5
173	HTPR	10	0956	1001	1005	N08	W34	.588	15749	7.9	9	-F	C	1001	10	.2		Y5	
174	HTPR	10	1107	1109	1126	N16	E31	.597	15754	12.8	19	-N	C	1109	70	.8	E	Y5	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
175 HUAN	10	1437		1455	N08	W34	.588	15749	8.1	18	-F	1	C				Y5
176 RAMY	10	1453	1454	1504D	N17	E13	.417	15754	11.6	11D	-N	3	C		44		F Y5
177 RAMY	10	1546	1546	1603	N08	W33	.574	15749	8.2	17	-B	3	C		24		F Y5
GRP71178	10	1616	1621	1653	N08	W34	.588	15749	8.1	37	-N				40	.5	
RAMY	10	1616	1621	1649	N08	W33	.574	15749	8.2	33	-B	3	C		117		
MCMA	10	1618E		1659D	N09	W35	.605	15749	8.1	41D	-N		C	1626	30	.4	D
HUAN	10	1623E		1656D	N08	W35	.601	15749	8.1	33D	-N	2	P	1623	45	.5	E
HOLL	10	1628E	1628U	1634	N09	W31	.552	15749	8.4	6D	-N	2	C		30		F
179 RAMY	10	1754	1758	1804	N08	W33	.574	15749	8.3	10	-N	3	C		30		F Y5
GRP71180	10	1845+6	1851+1	1927	N09	W35	.605	15749	8.2	42	-N				60	.8	E
BIGB	10	1845	1852	1918	N15	W37	.660	15749	8.0	33	-N	2	C	1852	50		
MCMA	10	1848E	1852	1915D	N09	W35	.605	15749	8.2	27D	-N		C	1852	80	1.1	E
RAMY	10	1849	1851	2020D	N08	W34	.588	15749	8.2	91D	-B	2	C		57		
HOLL	10	1851	1851	1924	N09	W33	.579	15749	8.3	33	-B	2	C		36		
HUAN	10	1911E		1929	N08	W37	.627	15749	8.0	18D	-F	1	P	1914	45	.6	
181 BIGB	10	1943	1956	1959	S23	E70	.940	15762	16.1	16	?N	2	C	1956	120		Y5
		IMP.1 NO :	HUAN	HOLL													
182 BIGB	10	1954	1959	2009	S15	E36	.603	0	13.5	15	-N	2	C	1959	30		Y5
183 BIGB	10	2025	2036	2037	S23	E70	.940	15762	16.1	12	?N	2	C	2036	100		Y5
		IMP.1 NO :	HOLL	CULG	HUAN												
GRP71184	10	2039+2	2044	2101	S23	E64	.903	15762	15.7	22	-F				30		D
			2051+1														
BIGB	10	2039	2044	2057	S24	E64	.904	15762	15.7	18	-N	3	C	2044	25		
BIGB	10	2040	2052	2102	S24	E63	.897	15762	15.6	22	-N	2	C	2052	25		
HUAN	10	2041	2051	2059	S23	E64	.903	15762	15.7	18	-F	1	C	2051	25	.5	D
GRP71185	10	2054+1	2059+3	2113	N09	W37	.631	15749	8.1	19	-N				50	.6	
BIGB	10	2035	2102	2145	N15	W37	.660	15749	8.1	70	-N	*	C	2102	40		
HUAN	10	2054		2113D	N08	W38	.640	15749	8.0	19D	-N	*	P	2106	40	.5	
CULG	10	2055	2059	2107	N09	W35	.605	15749	8.2	12	-N	*	C	2059	60	.8	
GRP71186	10	2055+1	2059+2	2110D	S18	W15	.346	15748	9.7	15	-F						
CULG	10	2055	2059	2110	S18	W15	.346	15748	9.7	15	-F		C	2059	20	.2	
BIGB	10	2056	2101	2143	S19	W16	.369	15748	9.7	47	-N	1	C	2101	130		
GRP71187	10	2055+4	2116+4	2126D	N20	E15	.472	15754	12.0	31	-N				100	1.1	E
CULG	10	2055	2120	2208	N20	E15	.472	15754	12.0	73	-N	*	C	2120	120	1.4	
HUAN	10	2056		2113D	N20	E15	.472	15754	12.0	17D	-N	*	P	2109	160	1.8	E
BIGB	10	2059	2116	2126	N03	E17	.315	15754	12.1	27	-N	*	C	2116	80		
188 BIGB	10	2125	2135	2143	S23	E63	.896	15762	15.6	18	-N	3	C	2135	20		Y5
GRP71189	10	2156+1	2157+6	2214	S15	W16	.329	15748	9.7	18	-N				25	.3	
BIGB	10	2156	2157	2209	S12	W16	.304	15748	9.7	13	-N	3	C	2157	30		
CULG	10	2157	2203	2218	S19	W17	.380	15748	9.6	21	-N		C	2203	20	.2	
GRP71190	10	2159	2200	2209	S22	E64	.902	15762	15.7	10	-N						
			2204														
BIGB	10	2159	2200	2203	S23	E66	.916	15762	15.9	4	-N	3	C	2200	65		
BIGB	10	2201	2204	2209	S22	E62	.888	15762	15.6	8	-N	3	C	2204	20		
191 CULG	10	2233	2242	2253	S37	W90	.999	15740	4.2	20	-N		C	2242	40		Y5
192 BIGB	10	2247	2300	2309	S23	E61	.881	15762	15.5	22	-N	3	C	2300	30		Y5
193 CULG	10	2314	2316	2322	N19	E05	.399	15754	11.3	8	-N		C	2316	30	.3	Y5
GRP71194	10	2337+1	2343+0	2352	N10	W37	.635	15749	8.2	15	-N						E
BIGB	10	2337	2343	2352	N16	W37	.665	15749	8.2	15	-N	3	C	2343	65		
CULG	10	2338	2343	2353	N10	W35	.610	15749	8.4	15	-N		C	2343	40	.5	
VORO	10	2343E		2350	N08	W38	.640	15749	8.1	7D	1F		P	2345	242	3.1	E
195 BIGB	10	2352	2358	2358D	S23	E60	.874	15762	15.5	6D	-N	2	P	2358	20		Y5
GRP71196	11	0033+0	0035+1	0053	S19	W18	.391	15748	9.7	20	-F						E
VORO	11	0033	0036	0047	S19	W18	.391	15748	9.7	14	-N		C	0036	90	1.0	E
CULG	11	0033	0035	0059	S19	W18	.391	15748	9.7	26	-F		C	0035	20	.2	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA M.H. of Disk		CORR. AREA Sq Deg
					LAT.	MER. DIST.											
GRP71220	11	1607+1	1608+0	1614	S19	H27	.504	15748	9.6	7	-N		30	.3	D		
MCMA	11	1607	1608	1614	S19	H26	.491	15748	9.7	7	-F	C	1608	25	.3	D	
HUAN	11	1607	1608	1612	S20	H27	.511	15748	9.6	5	-N	1 C	1608	40	.4		
HUAN	11	1607	1608	1614	S20	H28	.523	15748	9.6	7	-F	1 C	1608	30	.3		
RAMY	11	1608	1608	1612	S18	H30	.537	15748	9.4	4	-B	3 C		24			
221 MCMA	11	1658	1700	1710	N17	E17	.454	15754	13.0	12	-F	C	1700	50	.6	E Y5	
GRP71222	11	1738+1	1742+1	1752	N08	H48	.759	15749	8.1	14	-N		60	.9	E		
MCMA	11	1738	1743	1755	N09	H50	.783	15749	8.0	17	-N	C	1743	65	1.1	E	
RAMY	11	1739	1742	1748	N08	H46	.737	15749	8.3	9	-N	3 C		50			
223 MCMA	11	1832		1840D	N17	E17	.454	15754	13.0	8D	-F	P	1839	35	.4	D Y5	
224 RAMY	11	1841	1842	1918	N15	E11	.375	15754	12.6	37	-B	3 C		68		Y5	
225 RAMY	11	1925	1926	1933	N15	E11	.375	15754	12.6	8	-N	3 C		22		Y5	
GRP71226	11	1956+1	1957+1	2002	N08	H48	.759	15749	8.2	6	-N		40	.6	E		
HUAN	11	1956	1958	2000	N07	H48	.757	15749	8.2	4	-N	1 C	1958	40	.6		
MCMA	11	1957	1958	2004	N08	H50	.781	15749	8.1	7	-N	C	1958	50	.8	E	
RAMY	11	1957	1957	1959D	N08	H48	.759	15749	8.2	2D	-N	3 C		18			
GRP71227	11	2029>9	2046+2	2124	N16	E15	.423	15754	13.0	55	-N		80	.9	H		
CULG	11	2029	2059	2125	N16	E15	.423	15754	13.0	56	-F	C	2059	160	1.8		
HUAN	11	2035	2048	2104	N16	E16	.432	15754	13.1	29	-N	2 C	2048	60	.7		
RAMY	11	2041	2046	2111	N15	E10	.367	15754	12.6	30	-B	3 C		103		H	
RAMY	11	2122	2123	2124	N15	E10	.367	15754	12.6	2	-N	2 C		24			
	11	2146	2159	NO FLARE PATROL													
228 CULG	11	2213	2216	2224	S28	E23	.536	15757	13.7	11	-F	C	2216	20	.2	Y5	
229 BIGB	11	2227	2235	2244	N17	E02	.362	15754	12.1	17	-N	3 C	2235	140		EK Y5	
	11	2243	2254	NO FLARE PATROL													
230 CULG	11	2337	2343	2356	S27	E49	.788	15762	15.7	19	-F	C	2343	40	.6	Y5	
GRP71231	12	0018+2	0020+3	0027	N08	H51	.791	15749	8.2	9	1F		130	2.1	EJ		
CULG	12	0018	0020	0028	N09	H52	.814	15749	8.1	10	-N	C	0020	60	1.0		
CULG	12	0018	0019	0028	N09	H51	.794	15749	8.2	10	-F	C	0019	30	.5		
VORO	12	0020	0023	0026	N08	H50	.781	15749	8.3	6	1F	C	0023	179	2.9	EJ	
GRP71232	12	0025+1	0028+2	0049D	S18	H34	.588	15748	9.5	24	1B		280	3.5	JUVZ		
CULG	12	0025	0028	0140	S19	H32	.567	15748	9.6	75	1B	C	0028	360	4.5	VF	
VORO	12	0026	0030	0049	S18	H34	.588	15748	9.5	23	1N	C	0030	287	3.6	EJ	
HANI	12	0028E	0030	0035D	S18	H37	.625	15748	9.2	7D	1B	3 V	180		U Z		
233 CULG	12	0114	0121	0132	S25	H16	.436	15764	10.9	18	-F	C	0121	40	.4	Y5	
GRP71234	12	0303+1	0305+1	0311	N15	E12	.384	15754	13.0	8	-F		60	.6	E		
CULG	12	0303	0306	0312	N15	E12	.384	15754	13.0	9	-F	C	0306	40	.4	T	
VORO	12	0304	0305	0310	N16	E12	.398	15754	13.0	6	-N	C	0305	81	.9	E	
235 CULG	12	0421	0423	0428	N15	H02	.331	15754	12.0	7	-F	C	0423	40	.4	Y5	
236 CULG	12	0449	0450	0503	S28	E47	.772	15762	15.7	14	-N	C	0450	50	.8	Y5	
237 CULG	12	0514	0519	0527	S24	E15	.415	15757	13.3	13	-F	C	0519	40	.4	Y5	
238 CULG	12	0550	0552	0609	N23	H52	.844	15750	8.3	19	-F	C	0552	60	1.1	Y5	
239 CULG	12	0740	0745	0757	N14	E08	.340	15754	12.9	17	-F	C	0745	30	.3	T Y5	
GRP71240	12	0842+3	0844+1	0849	S25	E44	.732	15762	15.7	7	-F		30	.4			
HTPR	12	0842	0844	0847	S26	E44	.736	15762	15.7	5	-F	C	0844	30	.4		
CATA	12	0845	0845	0850	S25	E45	.742	15762	15.7	5	-N	2 C	0845	28	1.8		
241 HTPR	12	1004	1007	1013	N16	E07	.365	15754	12.9	9	-F	C	1007	30	.3	Y5	
GRP71242	12	1033+3	1036+1	1046	N16	E08	.370	15754	13.0	13	-N						
HTPR	12	1033	1037	1047	N16	E09	.376	15754	13.1	14	-N	C	1037	60	.6		
KANZ	12	1036	1036	1045	N16	E07	.365	15754	13.0	9	-B	2					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA	CORR AREA		
					LAT.	MER. DIST.												Mill of Disk
GRP71243	12	1045+2	1049 1108+1	1137	S16	W39	.644	15748	9.5	52	-B						U	
KANZ	12	1045	1108	1141	S16	W38	.631	15748	9.6	56	1B	2					U	
HTPR	12	1047	1049	1055	S17	W40	.659	15748	9.4	8	-F	C	1049	20	.3			
HTPR	12	1102	1109	1133	S17	W40	.659	15748	9.5	31	-N	C	1109	150	2.0			
244 KANZ	12	1211	1216	1221	N16	E07	.365	15754	13.0	10	-F	1					E Y5	
GRP71245	12	1231+2	1234+1	1240	S16	W40	.656	15748	9.5	9	-N							
KANZ	12	1231	1234	1240	S16	W40	.656	15748	9.5	9	-B	1						
HTPR	12	1233	1235	1239	S17	W41	.671	15748	9.4	6	-N	C	1235	50	.7			
246 HTPR	12	1322	1323	1325	S18	E17	.368	0	13.8	3	-F	C	1323	30	.3		Y5	
GRP71247	12	1327+2	1330+2	1347	N15	E06	.344	15754	13.0	20	-N						EL	
HTPR	12	1327	1332	1338	N16	E07	.365	15754	13.1	11	-F	C	1332	30	.3		E	
RAMY	12	1328	1330	1349	N15	E01	.330	15754	12.6	21	-E	3	C	75				
KANZ	12	1329	1332	1347	N15	E06	.344	15754	13.0	18	-N	1					L	
GRP71248	12	1350+0	1354+1	1404	S16	W41	.668	15748	9.5	14	-N							
HTPR	12	1350	1355	1400	S17	W42	.683	15748	9.4	10	-F	C	1355	30	.4			
KANZ	12	1350	1354	1407	S16	W41	.668	15748	9.5	17	-B	1						
249 RAMY	12	1415	1425	1430	N15	E00	.329	15754	12.6	15	-N	3	C		28		Y5	
GRP71250	12	1512	1513 1529+3	1551	S17	W43	.695	15748	9.4	39	-N			50	.7		E	
HUAN	12	1512	1513	1522	S18	W42	.686	15748	9.5	10	-F	1	C	1513	45	.6		
MCMA	12	1513E	1529	1549D	S17	W43	.695	15748	9.4	360	-N	C	1529	60	.9		E	
HUAN	12	1526	1532	1551	S18	W45	.720	15748	9.3	25	-N	2	C	1532	40	.5		
GRP71251	12	1518+2	1521+0	1536	N16	E04	.352	15754	12.9	18	-F			80	.9		E	
MCMA	12	1518	1521	1539D	N16	E04	.352	15754	12.9	210	-F	C	1521	90	1.0		E	
HUAN	12	1520	1521	1532	N17	E04	.368	15754	12.9	12	-F	1	C	1521	65	.7		E
252 HUAN	12	1619	1624	1633	S17	W43	.695	15748	9.5	14	-N	2	C	1624	90	1.2	Y5	
253 HUAN	12	1622	1625	1627	N16	E04	.352	15754	13.0	5	-F	1	C	1625	30	.3	Y5	
GRP71254	12	1628+0	1629 1638	1639	N15	E01	.330	15754	12.8	11	-F						H	
HUAN	12	1628	1638	1645	N15	E04	.336	15754	13.0	17	-F	1	C	1638	25	.3	D	
RAMY	12	1628	1629	1633	N15	W01	.330	15754	12.6	5	-F	3	C	27			F H	
255 HUAN	12	1716	1717	1718	S19	W43	.701	15748	9.5	2	-F	1	C	1717	40	.5	Y5	
256 RAMY	12	1746	1746	1751	N15	W02	.331	15754	12.6	5	-N	3	C		20		FDE Y5	
257 RAMY	12	1817	1817	1825	N15	W02	.331	15754	12.6	8	-B	3	C		27		FDE Y5	
258 RAMY	12	1841	1841	1846	S18	W44	.709	15748	9.5	5	-B	3	C		22		FDE Y5	
259 RAMY	12	2000	2000	2009	N17	W17	.455	15754	11.6	9	-N	3	C		23		Y5	
GRP71260	12	2017+7	2026+1	2031	S18	W44	.709	15748	9.5	14	-N			40	.6			
BIGB	12	2017	2026	2029	S18	W44	.709	15748	9.5	12	-N	2	C	2026	40			
CULG	12	2021	2026	2031	S16	W44	.704	15748	9.5	10	-F	C	2026	80	1.1			
RAMY	12	2024	2027	2033	S18	W45	.720	15748	9.5	9	-B	3	C	27				
261 CULG	12	2024	2029	2052	N15	E04	.336	15754	13.2	28	-F	C	2029	90	1.0	Y5		
262 CULG	12	2031	2035	2049	S16	W45	.716	15748	9.5	18	-F	C	2035	90	1.3	Y5		
GRP71263	12	2100	2114+0	2124	N17	W16	.446	15754	11.7	24	-N			130	1.4			
CULG	12	2100	2114	2124	N16	W22	.496	15754	11.2	24	-F	C	2114	70	.8			
RAMY	12	2111E	2114	2123D	N17	W17	.455	15754	11.6	12D	-B	2	C	141			FDE	
CULG	12	2111	2113	2124	N18	W10	.412	15754	12.1	13	-N	C	2113	60	.7			
BIGB	12	2112	2114	2123	N19	W10	.426	15754	12.1	11	-N	3	C	2114	130			
GRP71264	12	2133+5	2142 2205+8	2236	N16	E02	.347	15754	13.0	63	-F						F	
BIGB	12	2133	2142	2143	N16	E01	.346	15754	13.0	10	-N	3	C	2141	60			
CULG	12	2138	2213	2239	N16	E03	.349	15754	13.1	61	-F	C	2213	100	1.1	F		
BIGB	12	2150	2205	2207	N17	E02	.364	15754	13.1	17	-N	3	C	2205	65			
BIGB	12	2208	2209	2211	N17	E02	.364	15754	13.1	3	-N	3	C	2209	65			
BIGB	12	2214	2226	2233	N16	E02	.347	15754	13.1	19	-N	3	C	2226	40			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST.												
GRP71265	12	2138+9	2157+0	2207	S16	W45	.716	15748	9.5	29	-N							
CULG	12	2138	2157	2209	S16	W45	.716	15748	9.5	31	-B	C	2157	70	1.0			
BIGB	12	2153	2157	2205	S17	W46	.729	15748	9.5	12	-N	2	C	2157	65			
GRP71266	12	2237+9	2255+0	2304	N15	W23	.497	15754	11.2	27	-F							
CULG	12	2237	2255	2307	N15	W23	.497	15754	11.2	30	-F	*	C	2255	120	1.4		
BIGB	12	2253	2255	2300	N16	W23	.507	15754	11.2	7	-N	*	C	2255	50			
GRP71267	12	2248+3	2254+3	2313	N14	E01	.313	15754	13.0	25	-F							
BIGB	12	2248	2254	2301	N15	E01	.330	15754	13.0	13	-N	*	C	2254	65		F	
CULG	12	2251	2257	2325	N13	E02	.298	15754	13.1	34	-F	*	C	2257	60	.6	F	
268 CULG	12	2340	2345	2354	S25	E40	.690	15762	16.0	14	-N		C	2345	10	.1	Y5	
	13	0137	0145	NO FLARE PATROL														
	13	0036	0041	NO FLARE PATROL														
GRP71269	13	0300+9	0315	03230	N15	W02	.333	15754	13.0	23	-N							
CULG	13	0300	0338U	0400	N15	W03	.335	15754	12.9	60	-N		C	0338	80	.9	HJ FT	
VORO	13	0313	0315	0323	N16	W02	.349	15754	13.0	10	-N		C	0315	72	.8	EHJ	
GRP71270	13	0306+0	0308+1	0316	S12	W41	.659	15748	10.1	10	-N							
CULG	13	0306	0309	0318	S12	W42	.672	15748	10.0	12	-B		C	0309	30	.4	D	
VORO	13	0306	0308	0313	S13	W41	.661	15748	10.1	7	-N		C	0308	72	1.0	D	
271 CULG	13	0356	0359	0403	N18	W25	.549	15754	11.3	7	-N	*	C	0359	40	.5	Y5	
GRP71272	13	0651+9	0708+1	0725	N16	W02	.349	15754	13.1	34	-N							
CULG	13	0651	0708	0727	N17	W03	.367	15754	13.1	36	-N		C	0708	100	1.1	J T	
ABST	13	0704	0709	0725	N16	W02	.349	15754	13.1	21	-N		C	0709	80	.9	EJ	
MANI	13	0711E	0711U	0715	N13	W02	.300	15754	13.1	40	-B	3	C	0715	131	1.4	F	
273 CULG	13	0731	0738	0808	N16	W05	.357	15754	12.9	37	-N		C	0738	75	.9	FT Y5	
GRP71274	13	0832	0845+3	0913	N15	W08	.357	15754	12.8	41	-N							
MONT	13	0832	0848	0920	N16	W07	.366	15754	12.8	48	-N		C	0848	110	1.2	EK EK	
CATA	13	0845E	0845	0905	N14	W12	.372	15754	12.5	200	-B	2	P	0845	56	2.0		
CATA	13	0845E	0845	0855	N16	W05	.357	15754	13.0	100	-N	2	P	0845	56	1.9		
275 MONT	13	1003	1009	1014	S13	W47	.734	15748	9.9	11	-F		C	1009	50		E Y5	
GRP71276	13	1003+1	1006+2	1014	N14	W12	.372	15754	12.5	11	-N							
HTPR	13	1003	1006	1016	N14	W13	.381	15754	12.4	13	-N	*	C	1006	110	1.2	E	
MONT	13	1004	1008	1012	N14	W11	.364	15754	12.6	8	-B	*	C	1008	80	.8	E	
277 HTPR	13	1046	1050	1102	S25	E30	.580	15762	15.7	16	-F		C	1050	150	.5	EJ Y5	
GRP71278	13	1059+5	1105+3	1119	N15	W09	.363	15754	12.8	20	1N							
HTPR	13	1059	1105	1116	N15	W10	.370	15754	12.7	17	1N		C	1105	230	2.5		
MONT	13	1104	1108	1121	N15	W09	.363	15754	12.8	17	1B		C	1108	220	2.3	EF	
GRP71279	13	1144+1	1149+8	1213	N16	W07	.366	15754	13.0	29	1N							
MONT	13	1144	1157	1214	N18	W05	.389	15754	13.1	30	-B		C	1157	200	2.1	EJ	
HTPR	13	1145	1149	1208	N16	W06	.361	15754	13.0	23	-N		C	1149	220	1.0	E	
LVOV	13	1149E	1153	12080	N18	W06	.393	15754	13.0	190	1F		C	1153	100	1.0	E	
MONT	13	1200	1204	1216	N14	W11	.364	15754	12.7	16	-N		C	1204	200	2.2	EJ	
HUAN	13	1201E		1213	N15	W10	.370	15754	12.8	120	-F	1	P		80		E	
280 HTPR	13	1229	1233	1235	N15	W10	.370	15754	12.8	6	-F		C	1233	20	.2	E Y5	
GRP71281	13	1323	1342	1415	N14	W09	.349	15754	12.9	52	-N							
HTPR	13	1323	1342	1410	N15	W09	.363	15754	12.9	47	-F		C	1342	120	1.3	EK	
LOCA	13	1348E	1348	1415	N14	W09	.349	15754	12.9	270	-N		V	1348	130	1.3	EK	
HUAN	13	1349E		14100	N15	W08	.357	15754	13.0	210	1N	1	P	1354	122	1.3	E	
RAMY	13	1404E	1405U	1431	N14	W11	.364	15754	12.8	270	-B	3	C		220	2.4	E	
282 HUAN	13	1349E	1352	1357	S19	W58	.852	15748	9.2	80	-F	1	P	1352	77	.3	D Y5	
283 RAMY	13	1532	1538	1545	S26	E01	.369	15757	13.7	13	-N	3	C		31		Y5	
GRP71284	13	1532+5	1539+4	1548	N15	W11	.378	15754	12.8	16	-N							
HTPR	13	1532	1539	1545	N15	W11	.378	15754	12.8	13	-F		C	1539	110	1.2		
RAMY	13	1534	1542	1555	N14	W11	.364	15754	12.8	21	-B	3	C		40	.4		
HUAN	13	1537	1543	1548	N15	W09	.363	15754	13.0	11	-N	1	C	1543	126	1.2		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Milli of Disk		CORR AREA So Deg.
					LAT.	MER. DIST.											
285 HUAN	13	1549		1559	N17	W08	.387	15754	13.1	10	-F	1	C	1557	30	.3	Y5
286 RAMY	13	1614	1614	1626	N14	W12	.372	15754	12.8	12	-B	3	C		38		Y5
GRP71287	13	1652+4	1657+0	1703	N17	W08	.387	15754	13.1	11	-N				30	.3	F
BIGB	13	1652	1657U	1702	N18	W08	.402	15754	13.1	10	-N	2	P	1657	15		
RAMY	13	1656	1657	1703	N17	W08	.387	15754	13.1	7	-B	3	C		38		F
288 BIGB	13	1705	1730	1737	N17	W09	.393	15754	13.0	32	-N	2	C	1730	15		Y5
289 BIGB	13	1738	1738	1747	N18	W09	.407	15754	13.1	9	-N	2	C	1738	10		Y5
GRP71290	13	1816+2	1818+1	1834	S22	W56	.838	15748	9.6	18	-N				35	.7	F
BIGB	13	1816	1818	1833	S27	W58	.863	15748	9.4	17	-N	1	C	1818	30		
RAMY	13	1818	1819	1834	S17	W55	.822	15748	9.6	16	-B	3	C		38		F
GRP71291	13	1825	1835	1922	N16	W12	.400	15754	12.9	57	-N				70	.8	F
			1910+2														
RAMY	13	1825	1835	1841	N17	W09	.393	15754	13.1	16	-B	3	C		42		F
BIGB	13	1834U	1912	1917U	N16	W12	.400	15754	12.9	43D	-N	1	P	1912	60		
RAMY	13	1902E	1912	1923D	N17	W11	.406	15754	13.0	21D	-B	3	C		86		F
HOLL	13	1907	1910	1921	N15	W14	.404	15754	12.7	14	-N	2	C		46		
GRP71292	13	1931+0	1933	2013	N16	W10	.385	15754	13.1	42	1N				340	3.7	F
			1959														
BIGB	13	1916	1959	2100U	N15	W11	.378	15754	13.0	104D	-N	3	P	1959	50		
HOLL	13	1931	1933	2002	N15	W14	.404	15754	12.8	31	1B	2	C		230		F
HUAN	13	1931		2013	N17	W10	.399	15754	13.1	42	1N	2	P	1934	340	3.8	E
RAMY	13	1936E	1936U	1938D	N17	W09	.393	15754	13.1	2D	1B	3	C		464		F
293 CULG	13	2018	2021	2030	S28	W02	.403	15757	13.7	12	-F		C	2021	40	.4	Y5
GRP71294	13	2045+2	2046+1	2054	S24	E30	.573	15762	16.1	9	-N				90	1.1	E
CULG	13	2045	2046	2054	S24	E29	.561	15762	16.0	9	-B		C	2046	100	1.2	
HOLL	13	2046	2047	2051	S23	E33	.601	15762	16.3	5	-N	3	C		71		
BIGB	13	2046	2047	2054	S24	E30	.573	15762	16.1	8	-N	3	C	2047	120		
HUAN	13	2047	2047	2056	S24	E30	.573	15762	16.1	9	-N	2	C	2047	70	.8	E
295 CULG	13	2057	2059	2111	N15	W11	.378	15754	13.0	14	-F		C	2059	100	1.1	Y5
296 CULG	13	2058	2101	2109	N15	W34	.627	15754	11.3	11	-F	*	C	2101	50	.7	Y5
297 BIGB	13	2134E	2134U	2137	N15	E05	.341	15749	14.3	3D	?N	2	P	2134	50		Y5
		IMP.1	NO	HOLL													
298 BIGB	13	2134E	2134U	2138	N08	W80	.987	15769	7.9	4D	1N	2	P	2134	70		Y5
299 CULG	13	2203	2208	2213	S12	W52	.788	15748	10.0	1D	-F		C	2208	30	.5	Y5
GRP71300	13	2230	2232	2302	N08	E60	.876	15768	18.4	32	-N						
			2237														
BIGB	13	2230	2232	2237	N08	E60	.876	15768	18.4	7	-N	2	C	2232	50		
BIGB	13	2231	2237	2302	N08	E60	.876	15768	18.4	31	-N	2	C	2237	100		
GRP71301	13	2235+1	2237+1	2308	S18	W58	.851	15748	9.6	33	-N				45	.9	
CULG	13	2235	2238	2310	S18	W60	.867	15748	9.4	35	-N		C	2238	60	1.2	
HOLL	13	2236	2237	2306	S18	W56	.833	15748	9.7	30	-B	3	C		34		FDE
GRP71302	13	2237+0	2242	2312	S22	E22	.465	15762	15.6	35	-F				45	.5	
			2251+5														
CULG	13	2237	2251	2319	S22	E20	.442	15762	15.4	42	-F		C	2251	40	.4	
BIGB	13	2237	2242	2254U	S22	E26	.511	15762	15.9	17D	-N	2	C	2242	50		
BIGB	13	2245	2256	2305	S23	E22	.474	15762	15.6	20	-N	2	C	2256	50		
303 HOLL	13	2243	2244	2306	N08	W76	.974	15749	8.2	23	-N	3	C				Y5
304 HOLL	13	2245	2245	2248	N15	W15	.413	15754	12.8	3	-N	3	C		116		F
305 CULG	13	2341	2405	0015	S20	W60	.869	15748	9.5	34	-F		C	2405	40	.9	Y5
GRP71306	14	0058+0	0105+1	0121	S13	W54	.809	15748	10.0	23	-N						E
VORO	14	0058	0105	0117	S14	W54	.809	15748	10.0	19	1F		C	0105	233	4.2	E
CULG	14	0058	0106	0124	S13	W55	.818	15748	9.9	26	-N		C	0106	60	1.1	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR-TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg
					LAT.	MER. DIST											
GRP71307	14	0128+4	0133+0 0140	0151D	S17	W61	.875	15748	9.5	23	-N		60	1.3	E		
CULG	14	0128	0133	0151	S18	W63	.891	15748	9.3	23	-N	C	0133	40	.9		
VORO	14	0132	0133	0151	S18	W63	.891	15748	9.3	19	-N	C	0133	90	E		
VORO	14	0137	0140	0145	S16	W58	.848	15748	9.7	8	-N	C	0140	63	1.1	E	
VORO	14	0148	0157	0229	S14	W54	.809	15748	10.0	41	1F	C	0157	125	2.1	E	
GRP71308	14	0139+2	0144+0	0150	N15	W36	.651	15754	11.4	11	-N		70	.9	D		
CULG	14	0139	0144	0151	N15	W36	.651	15754	11.4	12	-N	C	0144	60	.8		
VORO	14	0141	0144	0148	N15	W37	.662	15754	11.3	7	-N	C	0144	81	1.0	D	
309 VORO	14	0141	0146	0150	S20	E15	.364	15762	15.2	9	-N	C	0146	63	.6	DHK	Y5
310 VORO	14	0152	0152	0201	N16	W20	.476	15754	12.6	9	-N	C	0152	45	.5	E	Y5
311 VORO	14	0157	0158	0203	S26	E15	.364	15762	15.2	6	-N	C	0158	45	.5	DH	Y5
312 VORO	14	0318	0319	0325	S24	E26	.527	15762	16.1	7	-N	C	0319	99	1.1	E	Y5
GRP71313	14	0338+0	0341+0	0346	S21	W11	.337	15757	13.3	8	-F					D	
CULG	14	0338	0341	0347	S21	W11	.337	15757	13.3	9	-F	C	0341	10	.1		
VORO	14	0338	0341	0344	S22	W11	.351	15757	13.3	6	-N	C	0341	63	.6	D	
314 CULG	14	0508	0515	0528	S18	W65	.905	15748	9.3	20	-N	C	0515	40	.9	Y5	
315 CULG	14	0538	0545	0559	N15	E00	.333	15769	14.2	21	-F	C	0545	40	.4	Y5	
GRP71316	14	0552	0602+3	0632	N16	W16	.436	15754	13.0	40	-F		80	.9	J		
CULG	14	0552	0605	0635	N16	W15	.427	15754	13.1	43	-F	C	0605	60	.8		
ABST	14	0555E	0602	0623	N17	W17	.458	15754	13.0	28D	-N	P	0602	105	1.2	FJ	
ABST	14	0555E	0604	0629	N15	W18	.444	15754	12.9	34D	-N	P	0604	87	1.0	EJ	
317 CULG	14	0558	0606	0618	S24	E24	.504	15762	16.0	20	-F	C	0606	40	.5	Y5	
GRP71318	14	0558+9	0608+1	0620	S21	W12	.346	15757	13.3	22	-N					DJK	
ABST	14	0558	0608	0618	S22	W12	.359	15757	13.3	20	1N	* C	0608	201	2.2	DJK	
CULG	14	0608	0609	0622	S21	W13	.356	15757	13.3	14	-N	* C	0609	80	.9		
GRP71319	14	0651+1	0709 0718+3	0811	N18	W39	.701	15754	11.4	80	-N		90	1.2	JS		
CULG	14	0640	0721U	0805D	N18	W39	.701	15754	11.4	85D	-N	P	0721	80	1.1	JS	
TELV	14	0651	0709	0810	N18	W37	.680	15754	11.5	79	-N	C	0709	98	1.3	F	
ABST	14	0652	0718	0812	N16	W39	.690	15754	11.4	80	-N	C	0718	114	1.6	DJ	
320 ABST	14	0715	0716	0725	N14	W04	.323	15769	14.0	10	-F	C	0716	87	1.0	DJV	Y5
GRP71321	14	0715+1	0717+1	0730	N15	W16	.424	15754	13.1	15	-F		70	.8	DJ		
ABST	14	0715	0717	0727	N16	W16	.436	15754	13.1	12	-N	* C	0717	87	1.0	DJ	
CULG	14	0716	0718	0732	N15	W17	.434	15754	13.0	16	-F	* C	0718	60	.8		
322 ABST	14	0730	0735	0854D	N16	W01	.350	15769	14.2	84D	-F	P	0735	175	1.9	DJ	Y5
323 KANZ	14	0932	0932	0939D	S18	W67	.919	15748	9.4	70	-F	1				Y5	
	14	1018	1030	NO FLARE PATROL													
GRP71324	14	1148+1	1151+4 1204	1205	N17	W19	.477	15754	13.1	17	-N						
HPR	14	1148	1151	1205	N17	W19	.477	15754	13.1	17	-B	C	1151	60	.6	E	
TELV	14	1149	1155	1205	N17	W19	.477	15754	13.1	16	-N	C	1158	122	1.3	F	
CATA	14	1200E	1200	1200D	N17	W20	.487	15754	13.0		-N	1 P	1200	56	1.8		
RAMY	14	1203E	1204U	1210	N14	W23	.490	15754	12.8	7D	-B	2 C		26			
GRP71325	14	1203+9	1240 1252+6	1310	S17	W65	.905	15748	9.6	67	-N						
RAMY	14	1203E	1240	1259D	S14	W61	.873	15748	9.9	56D	-F	3 C		33			
HPR	14	1252	1252	1257	S19	W67	.919	15748	9.5	5	-F	C	1252	10	.2		
RAMY	14	1255	1258	1323	S18	W67	.919	15748	9.5	28	-B	3 C		44			
326 HPR	14	1256	1257	1306	N17	W19	.477	15754	13.1	10	-N	C	1257	80	.8	E	Y5
GRP71327	14	1437+7	1440 1456	1459	N14	W24	.502	15754	12.8	22	-N					E	
HPR	14	1437	1440	1455	N15	W25	.522	15754	12.7	18	-F	C	1440	20	.2	E	
RAMY	14	1444	1456	1502	N14	W24	.502	15754	12.8	18	-B	3 C		46			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS COND. TYPE	MEASUREMENTS			REMARKS				
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION	CMP DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.					
					LAT.	MER. DIST														
GRP71328	14	1452+4	1455+2	1509	N14	W05	.327	15769	14.2	17	-F									
HTPR	14	1452	1455	1502	N15	W05	.343	15769	14.2	10	-F		1455	45	.5					
RAMY	14	1456	1457	1515	N14	W06	.332	15769	14.2	19	-N	3	C	64	.3					
329 RAMY	14	1507	1507	1526	S24	W12	.386	15757	13.7	19	-N	3	C				Y5			
330 RAMY	14	1542	1557	1616	S24	W13	.394	15757	13.7	34	-N	3	C			53	F	Y5		
GRP71331	14	1609+1	1613+1	1630	N16	W43	.734	15754	11.4	21	-N				110	1.6	F			
RAMY	14	1609	1613	1630	N17	W41	.717	15754	11.6	21	-B	3	C			130		F		
HOLL	14	1610	1614	1630	N16	W45	.754	15754	11.3	20	-N	2	C			88				
GRP71332	14	1626+7	1638+0	1700	S18	W68	.925	15748	9.6	34	-B							F		
HOLL	14	1626	1638	1707	S16	W65	.905	15748	9.8	41	-B	*	C			177		F		
HUAN	14	1632E		1636D	S19	W68	.926	15748	9.6	40	-F	*	P	1636		25		D		
RAMY	14	1633	1638	1653	S18	W69	.932	15748	9.5	20	-B	*	C			60		F		
333 RAMY	14	1630	1631	1650	S24	W13	.394	15757	13.7	20	-N	3	C			20		F	Y5	
334 HOLL	14	1701	1702	1707	N15	W26	.534	15754	12.8	6	-N	3	C			55		F	Y5	
335 RAMY	14	1722	1724	1732	S24	W13	.394	15757	13.7	10	-N	3	C			43		F	Y5	
GRP71336	14	2001+3	2005	2011	S20	W69	.932	15748	9.7	10	-F					25		D		
HUAN	14	2001		2007D	S21	W70	.938	15748	9.6	6D	-F	2	P	2005		20		D		
CULG	14	2004	2005	2011	S19	W68	.926	15748	9.7	7	-N		C	2005		30				
	14	2128	2133	NO FLARE PATROL																
337 CULG	14	2133E	2134	2149	N28	W04	.540	15759	14.6	16D	-N		C	2134		70	.8		Y5	
338 CULG	14	2304	2307	2327	N17	W26	.551	15754	13.0	23	-B		C	2307		80	1.0		Y5	
339 CULG	15	0105	010E	0112	S15	W70	.937	15748	9.8	7	-N		C	0106		20			Y5	
340 CULG	15	0130	0137	0159	S16	W70	.937	15748	9.8	29	?N		C	0137		90		FT	Y5	
		IMP.1 NO : MANI MITK																		
GRP71341	15	0344+1	0346+5	0401	N16	W28	.566	15754	13.1	17	-F					45	.5		E	
CULG	15	0344	0351	0408	N17	W28	.574	15754	13.1	24	-F		C	0351		40	.5			
VORO	15	0345	0346	0354	N16	W29	.578	15754	13.0	9	-N		C	0346		45	.5		E	
GRP71342	15	0358	0420	0540	S21	W75	.963	15748	9.5	102	1N								FS	
			0457																	
CULG	15	0358	0420	0540	S25	W78	.975	15748	9.3	102	1N		C	0420		160			SF	
CULG	15	0456	0457	0529	S18	W73	.953	15748	9.7	33	-F	*	C	0457		30			T	
343 CULG	15	0450	0506	0559	N15	W30	.582	15754	13.0	69	-F		C	0506		70	.9		F	Y5
344 ABST	15	0602E	0602	0656	S14	E90	1.000	15774	22.0	540	?N		P	0602		87			ADK	Y5
		IMP.1 NO : CULG																		
345 ABST	15	0644	0645	0655	S25	W23	.502	15757	13.6	11	-N		C	0645		87	1.0		D	Y5
346 ABST	15	0648	0651	0705	S16	W75	.963	15748	9.7	17	1N		C	0651		174			EJ	Y5
GRP71347	15	0712+4	0725+2	0755	N15	W35	.640	15754	12.7	43	2N					400	5.2		FJ	
			0734																	
CULG	15	0712	0734U	0809D	N15	W33	.617	15754	12.8	57D	1N		P	0734		180	2.3		F	
ABST	15	0712	0727	0750	N15	W35	.640	15754	12.7	38	2N		C	0727		436	5.9		FJ	
TELV	15	0716	0725	0755	N15	W35	.640	15754	12.7	39	1N		C	0725		367	4.6			
CATA	15	0740E	0745	0745D	N12	W36	.635	15754	12.6	5D	1N	1	P	0745		168	2.0			
348 ABST	15	0714	0715	0732	S16	W81	.985	15748	9.2	18	?N		C	0715		131			FJK	Y5
		IMP.1 NO : CULG																		
349 CULG	15	0739	0743	0801	S18	W75	.963	15748	9.7	22	-N		C	0743		60			T	Y5
350 MONT	15	0835	0848	0919	N12	W38	.659	15754	12.5	44	-N		C	0848		70				Y5
351 MONT	15	0839	0846	0854	S16	W80	.982	15748	9.4	15	-N		C	0846		60			E	Y5
352 MONT	15	0903	0906	0917	S19	W79	.979	15748	9.5	14	-N		C	0906		60			E	Y5
GRP71353	15	0923+6	0931+1	0939	S21	W77	.971	15748	9.6	16	-N						70			
MONT	15	0923	0931	0938	S20	W79	.979	15748	9.5	15	-N		C	0931		70				
TELV	15	0929	0932	0940	S22	W75	.963	15748	9.8	11	1N		C	0932		81				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
354 MONT	15	0939	0943	09500	S23	W24	.494	15757	13.6	110	-N	C	0943	60		E	Y5
GRP71355	15	1039+3	1042+3	1106	N15	W33	.617	15754	13.0	27	-F			60	.8	E	
HTPR	15	1039	1042	1101	N16	W33	.623	15754	13.0	22	-F	C	1042	40	.5	E	
TELV	15	1042	1045	1110	N14	W33	.610	15754	13.0	28	-N	C	1045	81	1.0	E	
GRP71356	15	1041>9	1046	1120	S23	W26	.518	15757	13.5	39	-N			45	.5	E	
			1105+0														
MONT	15	1041	1046	1103	S23	W25	.506	15757	13.6	22	-N	C	1046	60		E	
HTPR	15	1102	1105	1120	S23	W29	.953	15757	13.3	18	-F	C	1105	30	.3	E	
CATA	15	1105E	1105	1125	S24	W26	.526	15757	13.5	200	-N	1 P	1105	56	1.8		
357 HTPR	15	1058	1100	1103	S18	W78	.975	15748	9.6	5	-F	C	1100	20			Y5
GRP71358	15	1105+5	1105	1135	S22	W77	.971	15748	9.7	30	1N					E	
CATA	15	1105E	1105	1125	S22	W77	.971	15748	9.7	200	1N	1 P	1105	56	1.6		
TELV	15	1110	1103	1145	S23	W77	.971	15748	9.7	35	1N	C	1103	123		E	
359 RAMY	15	1207	1210	1217	N14	W36	.646	15754	12.8	10	-B	2 C		32		F	Y5
360 RAMY	15	1216	1217	1221	S17	W78	.975	15748	9.7	5	-N	2 C		33			Y5
361 RAMY	15	1227	1230	1243	S24	W27	.537	15757	13.5	16	-B	3 C		37		F	Y5
362 HUAN	15	1306E		14250	S25	W27	.545	15757	13.5	790	-F	1 P	1311	45	.5	E	Y5
363 RAMY	15	1319	1320	1324	S17	W79	.979	15748	9.6	5	-N	3 C		11			Y5
364 RAMY	15	1320	1321	1330	N14	W37	.658	15754	12.8	10	-B	3 C		29			Y5
GRP71365	15	1327+7	1331	1340	S18	W79	.979	15748	9.6	13	1N			90			
			1337+2														
RAMY	15	1327	1340	13420	S17	W79	.979	15748	9.6	150	2B	* V		244		F	
RAMY	15	1327	1340	13420	S17	W79	.979	15748	9.6	150	2B	* V		244		F	
HUAN	15	1329	1337	1337	S19	W87	.997	15748	9.0	8	-F	1 C				E	
HTPR	15	1334	1337	1340	S18	W79	.979	15748	9.6	6	-N	* C	1337	60			
HUAN	15	1335	1339	1340	S18	W81	.985	15748	9.5	5	-N	* C	1339	90			
366 RAMY	15	1332	1335	1343	S22	W02	.302	15762	15.4	11	-N	3 C		29			Y5
GRP71367	15	1347+3	1352+5	1422	N15	W36	.652	15754	12.9	35	-N			120	1.6	E	
HTPR	15	1347	1352	1406	N16	W30	.589	15754	13.3	19	-F	C	1352	40	.5	E	
MCMA	15	1349	1357	1422	N17	W36	.664	15754	12.9	33	-N	C	1357	90	1.2	E	
RAMY	15	1349	1355	13560	N14	W37	.658	15754	12.8	70	1B	3 V		148		F	
RAMY	15	1349	1355	1425	N14	W37	.658	15754	12.8	36	1B	3 C		148		F	
HUAN	15	1350		13530	N16	W35	.646	15754	13.0	30	-N	2 P	1352	130	1.7	E	
368 RAMY	15	1351	1357	1400	S17	W79	.979	15748	9.7	9	-N	3 C		28			Y5
GRP71369	15	1530	1532	1543	S19	W82	.988	15748	9.5	13	1B					F	
RAMY	15	1530	1532	1538	S18	W80	.982	15748	9.6	8	1B	3 C		115		F	
MCMA	15	1537E		15470	S20	W85	.994	15748	9.3	100	-F	P	1537				
370 RAMY	15	1531	1532	1540	N14	W38	.669	15754	12.8	9	-N	3 C		22			Y5
GRP71371	15	1550+9	1553	1652	S21	W00	.283	15762	15.7	62	-B					F	
RAMY	15	1550	1553	1652	S22	W04	.307	15762	15.4	62	-B	3 C		77		F	
HUAN	15	1633		16340	S21	W03	.288	15762	15.9	10	-F	1 P	1633	40	.4		
372 HUAN	15	1620E		16340	N23	W38	.722	15754	12.8	140	-F	1 P					Y5
	15	1825	1845		NO FLARE PATROL												
	15	1936	1959		NO FLARE PATROL												
GRP71373	15	2004+4	2007+3	2055	N16	W37	.669	15754	13.1	51	1N						
CULG	15	2004	20070	20280	N18	W35	.659	15754	13.2	240	1N	P	2007	160	2.2		
RAMY	15	2008	2010	2055	N14	W40	.692	15754	12.8	47	1B	3 C		336		DE	
374 RAMY	15	2026	2026	2030	S17	W83	.990	15748	9.6	4	-B	3 C		18			Y5
	15	2031	2038		NO FLARE PATROL												
375 RAMY	15	2100	2100	2114	S22	W06	.316	15762	15.4	14	-N	3 C		25			Y5
	15	2119	2121		NO FLARE PATROL												
376 CULG	15	2130	2230	2257	S21	W08	.312	15762	15.3	87	-N	C	2230	140	1.5		Y5

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS COND TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION				CMP DAY	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.	
					LAT.	MER. DIST											
	15	2135	2213	NO FLARE PATROL													
377 CULG	15	2232	2239	2248	S16	W83	.990	15748	9.7	16	-B	C	2239	20		Y5	
378 CULG	15	2336	2340	2351	S21	W10	.327	15762	15.2	15	-F	C	2340	50	.5	Y5	
379 CULG	16	0119	0123	0131	S15	W86	.996	15748	9.6	12	-N	C	0123	10		Y5	
GRP71380	16	0204+2	0209+2	0220	S20	W11	.321	15762	15.3	16	-F					EJ	
	CULG	16	0204	0211U	0218	S21	W12	.343	15762	15.2	14	-F	C	0211	60	.6	
	VORO	16	0206	0209	0222	S20	W11	.321	15762	15.3	16	-N	C	0209	143	1.5	EJ
GRP71381	16	0226+4	0231+2	0300	N23	E69	.955	15772	21.3	34	1F			110		E	
	CULG	16	0226	0233	0310	N26	E68	.954	15772	21.2	44	1N	C	0233	90		E
	VORO	16	0230	0231	0249	N21	E70	.957	15772	21.4	19	1F	C	0231	125		E
GRP71382	16	0332+2	0335+2	0358	N14	W42	.715	15754	13.0	26	-F					J	
	CULG	16	0332	0337	0408	N15	W42	.719	15754	13.0	36	-F	C	0337	40	.6	
	VORO	16	0334	0335	0347	N14	W43	.726	15754	12.9	13	-N	C	0335	116	1.7	J
383 CULG	16	0413	0418	0430	S25	E05	.357	15762	16.6	17	-F	C	0418	40	.4	Y5	
384 CULG	16	0626E	0631	0721	N15	W45	.751	15754	12.9	550	-N	P	0631	80	1.2	Y5	
385 KAND	16	0705E		0727	S13	W85	.995	15748	9.9	220	?N	C				Y5	
		IMP. 2	NO : MANI	ABST													
GRP71386	16	0724>9	0734+6	0750	S21	W12	.343	15762	15.4	26	-N			130	1.4	EJZ	
	ABST	16	0724	0734	0752	S21	W13	.353	15762	15.3	28	1N	C	0734	262	2.9	EJZ
	CULG	16	0730	0740U	0740D	S21	W12	.343	15762	15.4	100	-N	P	0740	120	1.3	
	KAND	16	0734	0739	0747	S20	W12	.330	15762	15.4	13	-N	C		125	1.4	
GRP71387	16	0732+7	0738+5	0803	N16	W46	.766	15754	12.9	31	2N			350	5.4	EJZ	
	ABST	16	0732	0738	0810	N17	W46	.770	15754	12.9	38	2B	C	0738	436	6.8	EJZ
	CULG	16	0735	0739D	0739D	N17	W45	.760	15754	12.9	40	1N	P	0739	200	3.0	
	MANI	16	0738	0741	0755	N15	W47	.772	15754	12.8	17	1B	3 C		280		
	KAND	16	0739	0743	0755	N16	W46	.766	15754	12.9	16	2N	C		415	6.3	
	MONT	16	0801E	0813	0826	N13	W46	.754	15754	12.9	250	-N	C	0813	70		
388 KAND	16	0739	0751	0817	S13	W85	.995	15748	9.9	38	-N	C				Y5	
389 KAND	16	0822	0903	0915	S13	W85	.995	15748	10.0	53	-N	C				Y5	
GRP71390	16	0848+2	0851+0	0855D	S21	W12	.343	15762	15.5	7	-N					K	
	ISTA	16	0848	0851	0925	S22	W13	.366	15762	15.4	37	-B					K
	MONT	16	0850	0851	0855	S21	W11	.334	15762	15.5	5	-N	C	0851	50		
GRP71391	16	0902+1	0908+1	0915	S20	W11	.321	15762	15.6	13	-N			80	.8	E	
	HTRP	16	0902	0909	0915	S19	W12	.318	15762	15.5	13	-N	C	0909	70	.7	E
	MONT	16	0903	0908	0914	S21	W11	.334	15762	15.6	11	-N	C	0908	100		
GRP71392	16	0915+8	0920+8	0935	S20	W13	.340	15762	15.4	20	-N			70	.7	EK	
	ISTA	16	0915	0920	0934	S21	W14	.363	15762	15.3	19	-B					K
	HTRP	16	0917	0923	0935	S18	W14	.328	15762	15.3	18	-B	C	0923	70	.7	E
	MONT	16	0918	0920	0938	S21	W11	.334	15762	15.6	20	-N	C	0920	70		E
	KAND	16	0923	0928	0933	S20	W12	.330	15762	15.5	10	-N	C		73	.8	
GRP71393	16	0936>9	0953+1	1032	N17	E61	.899	15772	21.0	56	-N					E	
			1005														
	KAND	16	0936	0954	1037	N19	E61	.903	15772	21.0	61	-N	C		83	1.8	
	ISTA	16	0938	0953	1023	N17	E63	.912	15772	21.1	45	-N					D
	MONT	16	0941	1015	1031	N17	E61	.899	15772	21.0	50	-N	C	1015	60		
	HTRP	16	0947	1005	1032	N17	E60	.892	15772	20.9	45	-F	C	1005	50	1.0	E
	ISTA	16	0950	0954	1023	N16	E61	.897	15772	21.0	33	-N					D
394 KAND	16	0944	0948	0958D	S13	W85	.995	15748	10.0	140	-N	C				Y5	
395 KAND	16	1026		1056	S13	W85	.995	15748	10.1	30	-N	C				Y5	
GRP71396	16	1036+5	1038+7	1108	S20	W15	.362	15762	15.3	32	1N			230	2.5	E	
	MONT	16	1036	1039	11150	S20	W15	.362	15762	15.3	390	1N	C	1039	250		
	HTRP	16	1037	1039	1110	S19	W15	.350	15762	15.3	33	1B	C	1039	220	2.2	E
	KANZ	16	1038	1038	1057	S21	W14	.363	15762	15.4	19	-B	1				
	ATHN	16	1040E	1045	10550	S15	W16	.323	15762	15.2	150	-N	1	1045	131	1.3	
	KAND	16	1041	1043	1105	S20	W12	.330	15762	15.5	24	-N	C				
397 KAND	16	1117		1205	S13	W85	.995	15748	10.1	48	-N	C				Y5	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mil of Disk		CORR AREA Sq Deg
					LAT.	MER. DIST.											
GRP71398	16	1141+4	1146+2	1209	N19	E61	.903	15772	21.1	28	-F						
HTPR	16	1141	1146	1200	N17	E59	.884	15772	20.9	19	-F	C	1146	60	1.3		
KAND	16	1145	1148	1218	N22	E64	.927	15772	21.3	33	-N	C		50	1.0		
													83	1.9			
GRP71399	16	1222+0	1223+2	1230D	N14	W49	.789	15754	12.8	8	-N			50	.8	F	
KAND	16	1222	1225	1226D	N14	W50	.798	15754	12.8	40	-N	C		42	.7		
RAHY	16	1222E	1223	1230D	N14	W49	.789	15754	12.8	80	-B	3 C		60		F	
400 KAND	16	1226		1226D	S13	W85	.995	15748	10.1		-N	C				Y5	
GRP71401	16	1354+7	1400+4	1408	N20	E60	.898	15772	21.1	14	-N			30	.7	E	
MCMA	16	1354	1400	1408	N21	E63	.919	15772	21.3	14	-N	C	1400	70	1.7	E	
RAHY	16	1400E	1402	1409D	N17	E60	.892	15772	21.1	90	-B	3 C		33			
HTPR	16	1401	1404	1405	N20	E58	.883	15772	20.9	4	-F	C	1404	20	.4		
GRP71402	16	1410	1416+1	1459	N15	W49	.792	15754	12.9	49	-N			110	1.8	H	
MCMA	16	1410	1417	1503D	N17	W50	.808	15754	12.8	53D	-N	C	1417	100	1.7	E	
RAHY	16	1414E	1416	1455	N14	W49	.789	15754	12.9	410	-B	3 C		128		F H	
403 MCMA	16	1536E	1543	1600D	N25	W51	.845	15754	12.8	240	-F	C	1543	20	.4	D Y5	
404 MCMA	16	1554	1555	1558	N21	E71	.962	15772	22.0	4	-B	C	1555	40	1.6	DV Y5	
GRP71405	16	1620+1	1624+1	1631	N15	W51	.811	15754	12.9	11	-N			30	.5		
MCMA	16	1620	1624	1630	N15	W52	.820	15754	12.8	10	-F	C	1624	25	.5	D	
RAHY	16	1621	1625	1632	N15	W51	.811	15754	12.9	11	-B	3 C		28		F	
GRP71406	16	1631+2	1633+3	1646	N11	W42	.703	15773	13.5	15	-N			40	.6		
MCMA	16	1631	1636	1650	N12	W43	.718	15773	13.5	19	-N	C	1636	50	.7	E	
RAHY	16	1633	1633	1641	N11	W41	.691	15773	13.6	8	-N	3 C		29		F	
GRP71407	16	1750	1758	1823	S21	W18	.406	15762	15.4	33	-B			90	1.0		
RAHY	16	1750	1758	1822D	S22	W18	.416	15762	15.4	320	-B	3 C		130		F	
MCMA	16	1803E		1823	S21	W18	.406	15762	15.4	200	-N	P	1803	60	.7	E	
GRP71408	16	1839+4	1843+2	1906	S15	W23	.421	15761	15.1	27	1B			260	2.9	H	
MCMA	16	1839	1845	1915	S15	W23	.421	15761	15.1	36	1B	C	1845	200	2.3	EH	
PALE	16	1843	1843	1857	S15	W23	.421	15761	15.1	14	1B	3 C		330		F	
GRP71409	16	1853+2	1855+1	1906	N16	W50	.805	15754	13.0	13	-B			50	.8		
MCMA	16	1853	1855	1905	N17	W51	.817	15754	13.0	12	-B	C	1855	50	1.0	E	
PALE	16	1855	1856	1907	N15	W50	.802	15754	13.0	12	-B	3 C		64		F	
GRP71410	16	1938	1946	2005	S21	W17	.395	15762	15.5	27	-B						
			1956														
PALE	16	1938	1946	1959	S22	W16	.395	15762	15.6	21	-B	3 C		49		F	
MCMA	16	1948E	1956	2010D	S21	W18	.406	15762	15.5	220	-B	C	1956	70	.8	E	
411 MCMA	16	1958E	2000	2005D	N16	W53	.832	15754	12.9	70	-F	P	2000	60	1.2	E Y5	
412 PALE	16	2102	2102	2112	N15	W54	.838	15754	12.8	10	-N	3 C		31		DE Y5	
	16	2118	2135	NO FLARE PATROL													
GRP71413	16	2140	2157	2324	N20	W54	.852	15754	12.9	104	2N			400	7.4	JUV	
			2246+1														
PALE	16	2140	2157	2211	N15	W55	.847	15754	12.8	31	1B	3 C		154		DE	
CULG	16	2153E	2247	2333D	N24	W55	.872	15754	12.8	1000	2N	C	2247	460	9.2	JUV	
PALE	16	2217	2221	2223	N17	W53	.835	15754	13.0	6	-N	3 C		42			
PALE	16	2224	2246	2310	N17	W53	.835	15754	13.0	46	2B	3 C		340		U F	
PALE	16	2311	2311	2314	N17	W53	.835	15754	13.0	3	-N	3 C		36		DE	
414 CULG	16	2242	2250	2311	S27	W07	.396	15762	16.4	29	-F	C	2250	80	.9	Y5	
415 CULG	16	2259	2305	2328	N20	E58	.883	15772	21.3	29	-N	C	2305	40	.9	Y5	
416 CULG	17	0005	0008	0023	S20	W23	.455	15762	15.3	18	-N	C	0008	90	1.0	Y5	
417 PALE	17	0134	0135	0140	N15	W56	.856	15754	12.9	6	-N	3 C		30		Y5	
418 PALE	17	0233	0234	0236	N15	W57	.864	15754	12.8	3	-N	3 C		21		Y5	
GRP71419	17	0240+1	0243+2	0253	S20	W23	.455	15762	15.4	13	-N			70	.8	E	
CULG	17	0240E	0245	0253	S20	W25	.480	15762	15.2	130	-F	C	0245	70	.8	E	
PALE	17	0241	0244	0247	S22	W18	.415	15762	15.8	6	-N	3 C		72		DE	
MITK	17	0241	0243	0253	S20	W23	.455	15762	15.4	12	-N	C	0243			E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA	CORR AREA			
					LAT.	MER. DIST												Mill of Disk	Sq. Deg.
420 ABST	17	0836	0344	0902D	S25	W26	.532	15762	15.4	260	-F	P	0844	44	.5	0	Y5		
GRP71421	17	0901+3	0904+2	0918	N17	W58	.877	15754	13.0	17	1N			120	2.4				
ABST	17	0901	0904	0907D	N17	W58	.877	15754	13.0	60	1N	P	0904	148	3.0		E		
TELV	17	0903	0906	0925	N17	W56	.861	15754	13.2	22	1N	C	0906	123	2.2		D		
MONTE	17	0904	0906	0910	N17	W60	.892	15754	12.9	6	-F	C	0906	50					
422 TELV	17	0921	0927	0936	N11	W49	.780	15773	13.7	15	-N	C	0927	61	.9		F Y5		
GRP71423	17	0942+3	0944+2	0959	N19	E48	.797	15772	21.0	17	-F			45	.7		E		
HPR	17	0942	0944	1005	N20	E48	.801	15772	21.0	23	-N	C	0944	40	.6				
MONTE	17	0945	0946	0952	N19	E49	.806	15772	21.1	7	-F	C	0946	50			E		
424 HPR	17	1150	1153	1202	S19	W22	.435	15762	15.8	12	-F	C	1153	20	.2		Y5		
	17	1223	1305	NO FLARE PATROL															
	17	1313	1317	NO FLARE PATROL															
425 RAMY	17	1317E	1317U	1320	N15	W63	.910	15754	12.8	30	-N	2 C		14			Y5		
426 RAMY	17	1317E	1318	1327	S15	E51	.779	15774	21.4	100	-N	* C		33			Y5		
427 RAMY	17	1326	1334	1400	N15	W63	.910	15754	12.8	34	-N	2 C		14			Y5		
	17	1411	1421	NO FLARE PATROL															
GRP71428	17	1426+1	1428	1443	S15	E53	.799	15774	21.6	17	-N			30	.5				
HUAN	17	1426E		1446	S15	E56	.829	15774	21.8	200	-N	* P	1429	30	.5		T		
RAMY	17	1427	1428	1440	S15	E51	.779	15774	21.4	13	-B	* C		34					
429 HUAN	17	1427		1431	N18	W64	.921	15754	12.8	4	-F	1 C					Y5		
GRP71430	17	1445+6	1452+1	1500	N14	W66	.928	15754	12.7	15	-N			30					
HUAN	17	1445	1453	1458	N14	W68	.940	15754	12.5	13	-N	1 C	1453	40					
RAMY	17	1451	1452	1501	N15	W64	.916	15754	12.8	10	-N	3 C		22					
431 HUAN	17	1526		1531	S26	E60	.875	0	22.1	5	-F	1 C					Y5		
GRP71432	17	1527+9	1527	1611	N14	W65	.921	15754	12.8	44	-N								
RAMY	17	1527	1527	1618	N15	W64	.916	15754	12.8	51	-B	3 C		14					
HUAN	17	1546		1604	N14	W67	.934	15754	12.6	18	-F	1 C	1550	45					
433 HUAN	17	1528	1529	1532	S25	W24	.510	15762	15.8	4	-N	1 C	1529	60	.7		Y5		
GRP71434	17	1611+6	1617+2	1636	N18	E45	.764	15772	21.0	25	-N			70	1.1		E		
HUAN	17	1611	1619	1630D	N19	E45	.769	15772	21.0	190	-N	2 P	1619	70	1.1		E		
RAMY	17	1617	1617	1636	N17	E46	.770	15772	21.1	19	-B	3 C		69					
GRP71435	17	1832+9	1833	1928	N15	W66	.929	15754	12.8	56	-N								
			1847																
RAMY	17	1832	1833	1848D	N15	W66	.929	15754	12.8	160	-N	3 C		17					
PALE	17	1841	1847	1928	N15	W66	.929	15754	12.8	47	-N	3 C		35			OE		
436 PALE	17	1922	1922	1936	S22	W27	.520	15762	15.8	14	-N	3 C		20			F Y5		
437 RAMY	17	2003	2010	2038	N15	W67	.935	15754	12.8	35	-B	3 C		19			Y5		
438 PALE	17	2049	2059	2138	N15	W67	.935	15754	12.8	49	1N	3 C		180			OE Y5		
	17	2217	2230	NO FLARE PATROL															
	17	2300	2320	NO FLARE PATROL															
	17	0750	0805	NO FLARE PATROL															
439 ABST	18	0625	0655	0710	N14	W69	.945	15754	13.1	45	1N	C	0655	105			Y5		
440 ABST	18	0654	0701	0738	S23	W31	.574	15762	16.0	44	-F	C	0701	131	1.7		E Y5		
GRP71441	18	0835	0835	0853	N14	W72	.960	15754	13.0	18	-B						DJ		
CATA	18	0835	0835	0840	N13	W75	.973	15754	12.7	5	-B	2 C	0835	45	2.2		DJ		
ABST	18	0836E	0859	0906D	N15	W70	.952	15754	13.1	300	1N	P	0859	87			DJ		
442 ABST	18	0836E	0839	0906D	S23	E03	.316	15767	18.6	300	?F	P	0839	218	2.4		E Y5		
		IMP. 1	NO	Y	CATA														
443 CATA	18	0850	0850	0900	S23	W33	.597	15762	15.9	10	-N	2 P	0850	56	1.9		Y5		
444 CATA	18	0915	0915	0920	N12	W75	.972	15754	12.8	5	-B	2 C	0915	28	2.0		Y5		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION			CMP. DAY			COND	TYPE		TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq Deg
					LAT.	MER. DIST.													
445 RAMY	18	1215	1215	1219	N15	W75	.974	15754	12.9	4	-N	2	C		18		Y5		
	18	1226	1400														NO FLARE PATROL		
	18	0530	0602														NO FLARE PATROL		
	18	0605	0625														NO FLARE PATROL		
446 RAMY	18	1237	1237	1240	N15	W75	.974	15754	12.9	3	-N	2	C		15		Y5		
447 RAMY	18	1237	1238	1243	S15	E42	.676	15774	21.7	6	-N	*	C		22		Y5		
448 RAMY	18	1245	1249	1256	N15	W76	.977	15754	12.8	11	-B	3	C		45		Y5		
449 RAMY	18	1246	1246	1248	S15	E42	.676	15774	21.7	2	-N	2	C		22		Y5		
450 RAMY	18	1343	1354	1407	S15	E41	.663	15774	21.6	24	-B	3	C		99		Y5		
GRP71451	18	1416+0	1418+0	1421	N14	W80	.989	15754	12.6	5	-N				35		D		
FAMY	18	1416	1418	1422	N15	W76	.977	15754	12.9	6	-B	3	C		35				
HUAN	18	1416	1418	1420	N14	W85	.998	15754	12.2	4	-F	1	C	1418	25		D		
452 HUAN	18	1422		1424	S15	E42	.676	15774	21.7	2	-F	1	C	1422	20	.2	D	Y5	
453 RAMY	18	1431	1431	1459	S15	E40	.651	15774	21.6	28	-N	3	C		30		Y5		
454 HUAN	18	1446E		14500	N13	W85	.998	15754	12.2	40	-F	1	P				Y5		
GRP71455	18	1517+8	1527+2	1612	S15	E43	.688	15774	21.9	55	-N				120	1.7	E		
			1510																
RAMY	18	1517	1527	1641	S15	E39	.638	15774	21.6	84	-B	3	C		119		F		
HUAN	18	1519	1529	15470	S15	E43	.688	15774	21.9	280	-N	2	P	1529	115	1.6	E		
MCMA	18	1525	1528	1540	S15	E43	.688	15774	21.9	15	-N		C	1528	50	.7	E		
HUAN	18	1607	1610	1636	S15	E43	.688	15774	21.9	29	-F	1	C	1610	80	1.1	E		
456 HUAN	18	1621	1625	1633	N13	W85	.998	15754	12.3	12	-F	1	C	1625	30		Y5		
GRP71457	18	1631+3	1635+1	1642	S23	W03	.316	15767	18.5	11	-N				40	.4	D		
MCMA	18	1631	1635	1640	S23	W03	.316	15767	18.5	9	-F		C	1635	30	.3	D		
HUAN	18	1634	1636	1643	S22	W03	.299	15767	18.5	9	-N	2	C	1636	35	.4			
RAMY	18	1634	1635	1642	S23	W01	.312	15767	18.6	8	-N	3	C		37				
GRP71458	18	1759>9	1807	1825	S15	E39	.638	15774	21.7	26	-B				45	.6			
			1813+0																
RAMY	18	1759	1813	1822	S15	E38	.625	15774	21.6	23	-B	3	C		52				
HOLL	18	1805	1807	1821	S15	E39	.638	15774	21.7	16	1N	3	C		189		F		
PALE	18	1812	1813	1826	S11	E39	.630	15774	21.7	14	-B	3	C		41		DE		
RAMY	18	1823	1823	1825	S15	E38	.625	15774	21.6	2	-N	*	C		35				
459 MCMA	18	1815E		1820	S23	W03	.316	15767	18.5	50	-F		P	1818	30	.3	D	Y5	
460 PALE	18	1831	1832	1900	S11	E39	.630	15774	21.7	29	-N	*	C		35		Y5		
461 RAMY	18	1835	1841	1845	S24	W42	.703	15762	15.6	10	-N	3	C		41		Y5		
462 RAMY	18	1851	1851	1857	S23	W03	.316	15767	18.6	6	-F	3	C		31		Y5		
GRP71463	18	1852+2	1855+1	1902	N14	W81	.991	15754	12.7	10	-N								
HCLL	18	1852	1855	1858	N14	W84	.997	15754	12.5	6	-N	3	C						
RAMY	18	1854	1856	1905	N15	W79	.987	15754	12.9	11	-N	3	C		30				
464 RAMY	18	1923	1924	1928	N15	W79	.987	15754	12.9	5	-N	3	C				Y5		
GRP71465	18	1943+8	1952+5	2046	S15	E39	.638	15774	21.7	63	-N				40	.5	E		
			2041																
HUAN	18	1656E		2025	S15	E40	.651	15774	21.7	2090	-F	*	P	2003	85	1.1	E		
PALE	18	1943	1957	2101	S11	E38	.617	15774	21.7	78	-B	*	C		109		F		
MCMA	18	1950	1952	20140	S15	E41	.663	15774	21.9	240	-N	*	C	1952	40	.6	E		
RAMY	18	1951	1957	2023	S15	E37	.612	15774	21.6	32	-B	*	C		43				
RAMY	18	2041	2041	2046	S15	E37	.612	15774	21.6	5	-N	*	C		18				
466 RAMY	18	2001	2002	2007	N15	W80	.989	15754	12.8	6	-N	3	C				Y5		
467 RAMY	18	2012	2025	2042	S23	W04	.319	15767	18.5	30	-N	3	C		68		Y5		
468 RAMY	18	2041	2041	2048	N11	E69	.942	15777	24.0	7	-F	3	C		16		Y5		
469 PALE	18	2107	2107	2117	S11	E38	.617	15774	21.7	10	-N	3	C		21		Y5		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.			
					LAT.	MER. DIST													
470 PALE	18	2116	2117	2118	N09	W73	.962	15773	13.4	2	-N	3	C		22			Y5	
471 CULG	18	2206	2218	2236	N15	W90	1.000	15754	12.2	30	-F		C	2218	30			Y5	
472 CULG	18	2324	2333	2345	S22	W40	.673	15762	16.0	21	-F		C	2333	40	.5		Y5	
GRP71473	19	0017+0	0019+1	0040	S23	W41	.688	15762	15.9	23	-F				50	.7		E	
VORO	19	0017	0019	0031	S24	W41	.692	15762	15.9	14	-N		C	0019	63	.8		E	
CULG	19	0017	0020	0049	S22	W41	.684	15762	15.9	32	-F		C	0020	40	.6			
474 CULG	19	0144E	0144E	0155	S23	W23	.479	15762	17.3	110	-F		P	0144	40	.5		Y5	
GRP71475	19	0152+2	0153+2	0157	N15	W89	1.000	15754	12.4	5	-N							H	
VORO	19	0152	0153	0157	N16	W90	1.000	15754	12.3	5	-N		C	0153	45			DH	
PALE	19	0154	0155	0157	N15	W89	1.000	15754	12.4	3	-B	3	C					F	
GRP71476	19	0226+0	0228+1	0238	N19	E36	.679	15772	21.8	12	-N								
PALE	19	0226	0229	0238	N18	E36	.673	15772	21.8	12	-B	3	C		44			FDE	
VORO	19	0226	0228	0237	N20	E36	.686	15772	21.8	11	-N		C	0228	125	1.7		E	
GRP71477	19	0239+0	0240+0	0248	N13	E74	.969	15777	24.7	9	-F				25			D	
PALE	19	0239	0240	0247	N12	E72	.959	15777	24.5	8	-N	3	C		15			DE	
VORO	19	0239	0240	0248	N14	E77	.980	15777	24.9	9	-F		C	0240	27			0	
478 VORO	19	0306	0306	0312	S14	E38	.623	15774	22.0	6	-N		C	0306	134	1.7		EJ	
	19	0348	0356	NO FLARE PATROL															
	19	0407	0416	NO FLARE PATROL															
479 CULG	19	0423	0425	0446	S21	W10	.322	15767	18.4	23	-F		C	0425	20	.2		Y5	
	19	0445	0453	NO FLARE PATROL															
480 CULG	19	0458	0459	0508	S23	W55	.829	15762	15.1	10	-N		C	0459	30	.4		Y5	
481 CULG	19	0517	0520	0528	N10	E67	.930	15777	24.2	11	-F		C	0520	20			T	
482 CULG	19	0700	0704	0715	S20	W51	.786	15762	15.5	15	-F		C	0704	10	.2		Y5	
483 CULG	19	0725	0727	0734	S23	W56	.838	15762	15.1	9	-F		C	0727	20	.3		Y5	
GRP71484	19	0739	0740+1	0754	S13	E34	.566	15774	21.9	15	-N								
CULG	19	0739	0741	0759	S14	E35	.583	15774	21.9	20	-F		C	0741	30	.3			
KANZ	19	0740E	0740	0749	S13	E34	.566	15774	21.9	90	-B	1							
485 CULG	19	0739	0744	0808	S24	W76	.967	15757	13.6	29	-F		C	0744	30			Y5	
486 CULG	19	0803	0808	08290	S20	W52	.796	15762	15.4	260	-N		P	0808	50	.9		Y5	
487 KANZ	19	0819	0823	0826	S13	E34	.566	15774	21.9	7	-F	2						Y5	
488 KANZ	19	1008	1012	1027	S12	E30	.507	15774	21.7	19	-N	2						Y5	
489 KANZ	19	1116	1127	1146	N18	E30	.608	15772	21.7	30	-B	2						Y5	
490 KANZ	19	1135	1139	1150	S21	W58	.852	15762	15.1	15	-N	1						Y5	
GRP71491	19	1217+0	1217+0	1229	N19	E24	.554	15772	21.3	12	-F							E	
KANZ	19	1217	1217	1234	N21	E25	.583	15772	21.4	17	-F	2						E	
RAMY	19	1217	1217	1223	N18	E24	.544	15772	21.3	6	-N	3	C		20				
492 RAMY	19	1257	1258	1308	N11	E60	.881	15777	24.0	11	-N	3	C		15			Y5	
GRP71493	19	1308+3	1308	1337	S12	E51	.776	15778	23.4	29	-F								
			1326																
RAMY	19	1308	1308	1334	S10	E49	.752	15778	23.2	26	-N	3	C		20				
KANZ	19	1311	1326	1340	S15	E53	.799	15778	23.5	29	-F	1							
GRP71494	19	1338+2	1341+3	1412	S24	W54	.822	15762	15.5	34	-N							E	
RAMY	19	1338	1341	1420	S24	W52	.803	15762	15.7	42	-B	3	C		137			FDE	
HUAN	19	1338		1352	S24	W55	.831	15762	15.4	14	-F	1	C	1346	40	.6		E	
KANZ	19	1340	1344	1412	S21	W54	.816	15762	15.5	32	-N	1						E	
GRP71495	19	1347+1	1351+2	1400	S22	W13	.362	15767	18.6	13	-F								
KANZ	19	1347	1351	1400	S22	W12	.353	15767	18.7	13	-F	1							
RAMY	19	1348	1353	1400	S22	W14	.371	15767	18.5	12	-N	3	C		35				

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST.												
496 RAMY	19	1424	1428	1455	S24	H53	.813	15762	15.6	31	-N	3	C		39		Y5	
497 RAMY	19	1551	1553	15560	N11	E58	.865	15777	24.0	50	-B	3	C		20		Y5	
GRP71498	19	1556+7	1557 1604	1615	N18	E20	.504	15772	21.2	19	-N						F	
RAMY	19	1556	1557	1620	N18	E20	.504	15772	21.2	24	-N	3	C		30		F	
HOLL	19	1603	1604	1610	N18	E21	.514	15772	21.2	7	-N	3	V		28			
499 BIGB	19	1832	1833	1845	S19	W60	.867	15762	15.3	13	-N	3	C	1833	60		Y5	
500 PALE	19	1914	1915	1924	S23	W16	.403	15767	18.6	10	-N	3	C		34		Y5	
GRP71501	19	2001+3	2007+1	2014	N11	E61	.889	15777	24.4	13	-N				50	1.1		
BIGB	19	2001	2008	2015	N10	E63	.903	15777	24.6	14	-N	3	C	2008	70			
PALE	19	2004	2007	2012	N12	E60	.883	15777	24.3	8	-N	3	C		36			
GRP71502	19	2105+9	2118+9	2140	S18	E38	.634	15775	22.7	35	-N				30	.4		
CULG	19	2105	2118	2140	S19	E38	.638	15775	22.7	35	-N	*	C	2118	30	.4		
BIGB	19	2110	2129	2140	S29	E38	.685	15775	22.7	30	-N	*	C	2129	70			
HOLL	19	2114E	2122U	2134D	S18	E38	.634	15775	22.7	200	-N	*	C		20		F	
PALE	19	2115	2125	2137	S18	E37	.622	15775	22.7	22	-N	*	C		29		DE	
503 BIGB	19	2108		2142D	N20	W17	.500	15771	18.6	340	-N	3	C	2142	120		Y5	
GRP71504	19	2110+2	2117 2131+5	2214	N18	E20	.504	15772	21.4	64	-N				70	.8		
CULG	19	2110	2131	2142D	N15	E23	.504	15772	21.6	320	-F		C	2131	50	.6		
PALE	19	2111	2136	2214	N18	E19	.494	15772	21.3	63	-B	3	C		94		DE	
HOLL	19	2112	2133	2142D	N19	E20	.515	15772	21.4	300	-N	2	C		80		F	
HOLL	19	2112	2117	2142D	N19	E20	.515	15772	21.4	300	-F	2	C		35		F	
505 BIGB	19	2123	2128	2140	N13	W24	.497	15768	18.1	17	-N	3	C	2128	30		Y5	
506 BIGB	19	2128	2129	2131	S12	E90	1.000	15785	26.6	3	-N	3	C	2129	10		Y5	
507 PALE	19	2222	2226	2228	N18	E19	.494	15772	21.4	6	-N	3	C		32		DE	
508 BIGB	19	2228	2239	2325	S16	E19	.370	15774	21.4	57	-N	2	C	2239	150		Y5	
GRP71509	19	2231+9	2240+6	2336	N18	E19	.494	15772	21.4	65	-N				160	1.8		
PALE	19	2231	2241	2344	N18	E18	.485	15772	21.3	73	1B	*	C		222		FDE	
CULG	19	2232	2240	2336	N18	E19	.494	15772	21.4	64	-N	*	C	2240	160	1.8		
BIGB	19	2240	2246	2313	N13	E23	.485	15772	21.7	33	-N	*	C	2246	60			
510 BIGB	19	2232	2233	2234	S13	E90	1.000	15785	26.7	2	-N	3	C	2233	25		Y5	
GRP71511	19	2232+8	2240+4	2251	N10	E61	.888	15777	24.5	19	-N				80	1.7		
CULG	19	2232	2240	2254	N08	E60	.877	15777	24.4	22	-F		C	2240	80	1.8		
BIGB	19	2237	2244	2248	N10	E61	.888	15777	24.5	11	1N	3	C	2244	120			
PALE	19	2240	2240	2251	N10	E67	.930	15777	25.0	11	-N	3	C		21		DE	
512 CULG	19	2352	2357	0015	N11	W18	.406	15768	18.6	23	-F		C	2356	20	.2	Y5	
GRP71513	19	2357+9	0008+5	0022	S19	W62	.883	15762	15.3	25	-F				35	.8	E	
VORO	20	0007	0008	0015	S20	W62	.883	15762	15.4	8	-N		C	0008	45		E	
CULG	19	2357	2413	0029	S18	W62	.882	15762	15.3	32	-F		C	2413	20	.5		
514 KANZ	20	1055	1059	1107	S22	W26	.505	15767	18.5	12	-F	2					E	
515 KANZ	20	1059	1107	1115	N25	W32	.685	0	18.1	16	-N	2					DG	
	20	1123	1145	NO FLARE PATROL														
516 RAMY	20	1207	1207U	1207D	S22	W70	.937	15762	15.3		-N	2	C		89		Y5	
517 KANZ	20	1210	1220	1257	N17	E06	.388	15772	21.0	47	1B	2					Y5	
	20	1301	1644	NO FLARE PATROL														
518 BIGB	20	1644E	1644U	1650	S14	E90	1.000	15785	27.4	60	1N	1	C	1644	50		Y5	
519 BIGB	20	1712	1716	1723	N14	E52	.819	15777	24.6	11	-N	1	C	1716	15		Y5	
520 BIGB	20	1712	1717	1724	N16	E71	.958	15787	26.0	12	-N	1	C	1717	40		Y5	
521 PALE	20	2036	2037	2042	N15	E05	.352	15772	21.2	6	-N	2	C		22		DE	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.		
					LAT.	WER. DIST												
522 BIGB	20	2119	2122	2130	N19	E09	.432	15772	21.6	11	-N	1	C	2122	10		Y5	
523 BIGB	20	2137	2139	2147U	S19	E90	1.000	15785	27.7	10D	-N	1	P	2139	30		Y5	
	20	2225	2247	NO FLARE PATROL														
	20	2314	2326	NO FLARE PATROL														
524 BIGB	20	2331	2332	2333	S19	W76	.967	15762	15.3	2	-N	1	C	2332	15		Y5	
525 PALE	21	0210	0211	0214	S26	E35	.635	15779	23.7	4	-N	3	C		23		DE Y5	
526 CULG	21	0343	0358	0429	N12	W40	.686	15768	18.2	46	-N		C	0358	100	1.4	Y5	
527 CULG	21	0421	0423	0429	N11	E41	.693	15777	24.3	8	-N		C	0423	30	.4	T Y5	
528 CULG	21	0550	0559	0618	N11	W43	.716	15768	18.0	28	-F		C	0559	100	1.4	Y5	
529 CULG	21	0602	0605	0614	N11	W14	.363	0	20.2	12	-F		C	0605	20	.2	Y5	
530 CULG	21	0708	0723	0729	N12	E38	.662	15777	24.1	21	-F		C	0723	20	.3	Y5	
531 CULG	21	0714	0723	0734	N18	E03	.396	15772	21.5	20	-F		C	0723	40	.4	F Y5	
532 RAMY	21	1220	1233	1246	N18	E58	.880	15787	25.9	26	-N	3	C		24		Y5	
533 RAMY	21	1225	1226	1231	N12	E37	.650	15777	24.3	6	-N	3	C		19		H Y5	
534 RAMY	21	1235	1237	1300	N17	E03	.380	15772	21.7	25	-B	3	C		58		F Y5	
535 RAMY	21	1241	1244	1247	S26	E30	.580	15779	23.8	6	-N	3	C		20		Y5	
536 RAMY	21	1312	1314	1332	S22	W85	.993	15762	15.2	20	-B	3	C				F Y5	
GRP71537	21	1511+0	1513+1	1530	N17	00	.377	15772	21.6	19	1B				370	4.0		
HTPR	21	1511	1513	1524	N18	E01	.393	15772	21.7	13	1B		C	1513	300	3.0	E	
RAMY	21	1511	1514	1535	N17	W02	.378	15772	21.5	24	1B	3	C		438		F	
538 RAMY	21	1554	1600	1607	N17	W02	.378	15772	21.5	13	-B	3	C		103		F Y5	
539 RAMY	21	1611	1612	1628	N17	W01	.377	15772	21.6	17	-N	3	C		49		F Y5	
540 RAMY	21	1620	1621	1624	N09	E39	.661	15777	24.6	4	-N	3	C		31		Y5	
541 RAMY	21	1731	1731	1739	N17	W04	.382	15772	21.4	8	-N	3	C		43		Y5	
542 RAMY	21	1740	1740	1817	N17	W04	.382	15772	21.4	37	-N	3	C		45		Y5	
543 RAMY	21	1751	1758	1802	N12	E34	.614	15777	24.3	11	-N	3	C		40		Y5	
544 RAMY	21	1813	1814	1821	N18	E54	.848	15787	25.8	8	-N	3	C		22		Y5	
	21	1833	1840	NO FLARE PATROL														
545 RAMY	21	1912	1912	1918	S15	E64	.896	15785	26.6	6	-N	3	C		14		F Y5	
GRP71546	21	2026+2	2027+3	2046	S26	E25	.526	15779	23.7	20	-F				60	.7		
RAMY	21	2026	2027	2055	S26	E25	.526	15779	23.7	29	-N	3	C		68			
CULG	21	2028	2030U	2037	S26	E25	.526	15779	23.7	9	-F		C	2030	60	.7		
547 PALE	21	2110E	2110U	2122	N13	E34	.620	15777	24.4	12D	-N	3	C		78		DE Y5	
	21	2111	2122	NO FLARE PATROL														
	21	0802	0807	NO FLARE PATROL														
	21	0809	1216	NO FLARE PATROL														
548 PALE	21	2136	2137	2212D	N18	W06	.405	15772	21.5	36D	-B	3	C		87		DE Y5	
549 BIGB	21	2148	2149	2151	N15	E30	.586	15777	24.2	3	-N	2	C	2149	40		Y5	
550 BIGB	21	2154	2156	2205	S13	E61	.871	15785	26.5	11	-N	2	C	2156	30		E Y5	
551 CULG	21	2215	2217	2219	S26	E25	.526	15779	23.8	4	-F		C	2217	10	.1	Y5	
GRP71552	21	2251+2	2255+1	2306	S14	E65	.903	15785	26.8	15	-F				40		E	
			2303															
CULG	21	2251	2256	2300	S15	E67	.917	15785	27.0	9	-F		C	2256	30	.8		
BIGB	21	2253	2255	2258	S15	E67	.917	15785	27.0	5	-N	1	C	2255	50			
BIGB	21	2256	2303	2312	S12	E60	.863	15785	26.5	16	-N	3	C	2303	15		E	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
GRP71553	21	2307+4	2315+5	2329	S19	E73	.953	15785	27.4	22	-N			30			
CULG	21	2307	2320	2335	S20	E71	.942	15785	27.3	28	-N	C	2320	20			
BIGB	21	2311	2315	2323	S18	E75	.962	15785	27.6	12	-N	3 C	2315	40			
554 CULG	21	2335	2400U	0126	N17	W08	.399	15772	21.4	111	-N	P	2400	120	1.3	F Y5	
555 CULG	22	0040	0046	0113	N17	E57	.871	15787	26.3	33	-N	C	0046	40	.6	Y5	
556 PALE	22	0144E	0144U	0157	S35	W12	.527	15783	21.2	130	-N	3 C		43		DE Y5	
557 CULG	22	0155	0158	0218	N20	W03	.429	15772	21.9	23	-F	C	0158	20	.2	Y5	
558 MITK	22	0519	0527	0539	S18	W90	1.000	15762	15.5	20	1B	C	0527	170		H Y5	
559 CULG	22	0546E	0559	0611D	N18	E54	.849	15787	26.3	25D	-F	C	0559	30	.6	Y5	
560 MITK	22	0611	0614	0621	N20	E53	.847	15787	26.2	10	-F	C	0614			D Y5	
561 CULG	22	0657E	0703	0739	S15	E58	.846	15785	26.6	42D	-F	C	0703	30	.6	Y5	
562 CULG	22	0726	0727	0738	N12	E27	.528	15777	24.3	12	-N	C	0727	40	.5	Y5	
563 CULG	22	0746	0749	0757	N12	E27	.528	15777	24.3	11	-N	C	0749	40	.5	Y5	
564 KANZ	22	0821	0830	0847	N18	E50	.814	15787	26.1	26	-F	1				Y5	
GRP71565	22	0935+5	0937+3	1003	N08	E30	.540	15777	24.6	28	-F					D	
KHAR	22	0935E	0937	0950D	N07	E30	.535	15777	24.6	15D	-F	P	0940	45	.5	D	
KANZ	22	0940	0940	1003	N09	E30	.546	15777	24.7	23	-N	2				D	
GRP71566	22	0955+0	1003	1057	S32	E69	.936	15786	27.6	62	1B					EH	
KANZ	22	0955	1017	1056	S30	E69	.935	15786	27.6	61	1B	2				EH	
KHAR	22	0955	1017	1058	S34	E70	.943	15786	27.7	63	2N	P	1013	250		EH	
567 KHAR	22	1045E		1100D	N18	E47	.786	15787	26.0	15D	-F	P	1051	65	1.1	E Y5	
	22	1104	1131	NO FLARE PATROL													
568 RAMY	22	1146	1147	1206	N18	E45	.767	15787	25.9	20	-B	3 C		27		Y5	
569 RAMY	22	1148	1149	1214	N09	E28	.520	15777	24.6	26	-N	3 C		36		Y5	
570 RAMY	22	1213	1220	1245	N18	E44	.757	15787	25.8	32	-B	3 C		60		F Y5	
571 RAMY	22	1214	1216	1240	S26	E17	.445	15779	23.8	26	-N	3 C		22		Y5	
572 RAMY	22	1229	1232	1236	N09	E27	.507	15777	24.5	7	-B	3 C		24		Y5	
573 RAMY	22	1243	1244	1249	S24	E67	.920	15786	27.6	6	-N	3 C		14		Y5	
GRP71574	22	1248	1254	1310	N10	E25	.488	15777	24.4	22	-N						
RAMY	22	1248	1254	1307	N12	E24	.491	15777	24.3	19	-N	3 C		57			
RAMY	22	1251	1257	1310	N09	E27	.507	15777	24.6	19	-N	3 C		34			
575 RAMY	22	1253	1255	1302	N18	E44	.757	15787	25.8	9	-N	3 C		16		Y5	
576 RAMY	22	1353	1357	1407	S19	E04	.246	15775	22.9	14	-F	3 C		62		F Y5	
GRP71577	22	1409	1413	1425	N10	E24	.475	15777	24.4	16	-B					F	
RAMY	22	1409	1418	1425	N09	E26	.493	15777	24.5	16	-B	3 C		113		F	
RAMY	22	1417	1418	1423	N12	E23	.479	15777	24.3	6	-B	3 C		108			
578 RAMY	22	1424	1425	1433	N18	E43	.747	15787	25.8	9	-N	3 C		20		Y5	
GRP71579	22	1452	1505	1602	S16	E58	.847	15785	27.0	70	1B			110	2.1		
RAMY	22	1452	1505	1602	S16	E56	.828	15785	26.8	70	-B	3 C		119		F	
MCMA	22	1454E		1527D	S16	E60	.864	15785	27.1	33D	1B	C	1504	100	2.1	E	
580 RAMY	22	1508	1512	1518	S24	E66	.913	15786	27.6	10	-N	3 C		16		Y5	
GRP71581	22	1535	1537	1554	N10	E24	.475	15777	24.4	19	-N						
RAMY	22	1535	1539	1551	N12	E23	.479	15777	24.4	16	-N	3 C		43			
RAMY	22	1535	1537	1554	N09	E26	.493	15777	24.6	19	-N	3 C		28			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST.											
582 RAMY	22	1558	1607	1625	N09	E25	.480	15777	24.5	27	-N	3	C	26		Y5	
GRP71583	22	1632+1	1637	1725D	N12	E25	.504	15777	24.6	53	-B					F	
BIGB	22	1632	1644	1804	N14	E27	.544	15777	24.7	92	1N	2	C	1644	220		
RAMY	22	1633	1637	1716	N08	E25	.473	15777	24.6	43	-B	3	C	102		F	
RAMY	22	1634	1637	1725	N12	E22	.467	15777	24.3	51	-B	3	C	37		F	
584 BIGB	22	1753	1812	1840	S16	E64	.896	15785	27.5	47	-N	3	C	1812	60	Y5	
GRP71585	22	1756+0	1757+1	1804	N17	W18	.476	15772	21.4	8	-N			70	.8		
RAMY	22	1756	1757	1805	N17	W17	.467	15772	21.5	9	-B	3	C	88		DE	
BIGB	22	1756	1758	1803	N17	W20	.496	15772	21.2	7	-N	3	C	1758	60		
586 BIGB	22	1816	1819	1824	S24	E80	.981	15788	28.8	8	-N	3	C	1819	30	Y5	
GRP71587	22	1821+1	1823+1	1843	N17	W15	.449	15772	21.6	22	-N			120	1.3		
BIGB	22	1821	1823	1843	N17	W13	.433	15772	21.8	22	-N	3	C	1823	130		
RAMY	22	1822	1824	1843	N17	W17	.467	15772	21.5	21	-B	3	C	117		DE	
GRP71588	22	1823+0	1823+1	1909	S15	E55	.818	15785	26.9	46	1N			130	2.3	K	
BIGB	22	1823	1823	1907	S14	E57	.836	15785	27.0	44	-N	3	C	1823	150	K	
RAMY	22	1823	1824	1910	S16	E54	.809	15785	26.8	47	-B	3	C	115			
589 RAMY	22	1854	1927	1931	N12	E22	.467	15777	24.4	37	-N	3	C	54		Y5	
590 BIGB	22	1924	1926	1928	N21	W24	.577	15772	21.0	4	-N	3	C	1926	10	Y5	
GRP71591	22	1932+0	1932+0	1937	N17	W17	.467	15772	21.5	5	-N			50	.6		
PALE	22	1932	1932	1936	N18	W17	.479	15772	21.5	4	-N	2	C	49			
RAMY	22	1932	1932	1937	N17	W18	.476	15772	21.5	5	-B	3	C	45			
GRP71592	22	2016+0	2018+1	2028	S13	E10	.218	15778	23.6	12	-N					F	
BIGB	22	2016	2018	2035	S14	E11	.241	15778	23.7	19	-N	3	C	2018	100	F	
PALE	22	2016	2019	2020	S12	E10	.208	15778	23.6	4	-N	2	C	20			
593 BIGB	22	2020	2023	2025	N17	W18	.476	15772	21.5	5	-N	3	C	2023	15	Y5	
594 BIGB	22	2022	2024	2034	N10	E26	.501	15777	24.8	12	-N	3	C	2024	100	E Y5	
GRP71595	22	2129+0	2132+1	2140	S13	E10	.218	15778	23.6	11	-F			50	.5		
CULG	22	2129	2133	2134D	S13	E09	.205	15778	23.6	5D	-F		P	2133	60	.6	
BIGB	22	2129	2132	2140	S14	E11	.241	15778	23.7	11	-N	3	C	2132	40		
GRP71596	22	2137+3	2139+2	2144	N19	W14	.467	15772	21.9	7	-N			40	.4		
BIGB	22	2137	2139	2144	N21	W11	.475	15772	22.1	7	-N	3	C	2139	30		
PALE	22	2140	2141	2143	N18	W18	.488	15772	21.6	3	-B	2	C	45		DE	
597 BIGB	22	2146	2155	2215	N20	W12	.467	15772	22.0	29	-N	3	C	2155	10	Y5	
598 BIGB	22	2158	2207	2216	S16	E57	.838	15785	27.2	18	-N	3	C	2207	50	Y5	
599 BIGB	22	2159	2210	2220	N20	E45	.776	15787	26.3	21	-N	3	C	2210	50	Y5	
GRP71600	23	0006+0	0007+1	0020	N08	E20	.406	15777	24.5	14	-B			60	.7		
PALE	23	0006	0007	0013	N08	E20	.406	15777	24.5	7	-B	3	C	62		DE	
CULG	23	0006	0008	0026	N08	E21	.420	15777	24.6	20	-B		C	0008	60	.7	
GRP71601	23	0045+5	0053+4	0106	S25	E45	.736	15786	26.4	21	1F			150	2.3	EGJS	
CULG	23	0033	0038	0133	S27	E45	.743	15786	26.4	60	1N	*	C	0038	260	3.9	SF
VORO	23	0045	0053	0106	S25	E45	.736	15786	26.4	21	1F	*	C	0053	152	2.3	EJG
PALE	23	0047	0054	0059	S25	E59	.864	15786	27.5	12	-N	3	C	27		DE	
MITK	23	0050	0057	0106	S25	E46	.746	15786	26.5	16	1F	*	C	0057	150	2.3	E
602 VORO	23	0038	0049	0114	N15	W24	.519	15772	21.2	36	-N		C	0049	125	1.5	E Y5
GRP71603	23	0049+1	0052+2	0101	N20	W12	.468	15772	22.1	12	-N			50	.6	DL	
VORO	23	0049	0052	0059	N20	W13	.475	15772	22.1	10	-N	*	C	0052	72	.8	DL
CULG	23	0050	0054	0102	N21	W12	.482	15772	22.1	12	-N	*	C	0054	40	.5	T
GRP71604	23	0130+5	0131+5	0141	N18	W18	.489	15772	21.7	11	-N			100	1.1	E	
MITK	23	0130	0132	0142	N18	W21	.518	15772	21.5	12	-N		C	0132		E	
CULG	23	0130	0133	0153	N18	W18	.489	15772	21.7	23	-N		C	0133	100	1.2	
VORO	23	0130	0131	0140	N17	W21	.507	15772	21.5	10	-N		C	0131	143	1.6	E
VORO	23	0131	0134	0138	N20	W13	.475	15772	22.1	7	-N		C	0134	90	1.0	D
CULG	23	0132	0135	0143	N21	W12	.482	15772	22.2	11	-N		C	0135	40	.5	T
PALE	23	0135	0136	0138	N18	W20	.508	15772	21.6	3	-N	3	C	29		DE	

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	NER. DIST.											
605 CULG	23	0132	0139	0222	S13	E08	.191	15778	23.7	50	-F	C	0139	60	.6	Y5	
GRP71606	23	0144+0	0147+1 0155	0215	N20	W12	.468	15772	22.2	31	-N			90	1.0	H	
CULG	23	0144	0148	0228	N21	W12	.482	15772	22.2	44	-N	* C	0148	60	.7	T	
VORO	23	0144	0147	0152	N20	W13	.475	15772	22.1	8	-N	* C	0147	125	1.4	DH	
VORO	23	0154	0155	0202	N20	W13	.475	15772	22.1	8	-N	* C	0155	63	.7	DH	
607 VORO	23	0329	0331	0333	N20	W14	.482	15772	22.1	4	-N	C	0331	54	.6	E Y5	
608 VORO	23	0348	0351	0400	S27	W52	.809	15767	19.3	120	-N	C	0351	81	1.3	E Y5	
609 CULG	23	0406E	0408	0438	S24	W53	.811	15767	19.2	320	-N	C	0408	30	.5	Y5	
610 CULG	23	0412	0415	0422	N20	W13	.475	15772	22.2	10	-F	C	0415	60	.7	T Y5	
611 MANI	23	0635E	0635U	0643	N19	W16	.484	15772	22.1	80	-N	3 C		50		Y5	
612 MANI	23	0639	0640	0647	N12	E15	.388	15777	24.4	8	-N	3 C		50		Y5	
	23	0655	0709	NO FLARE PATROL													
613 CULG	23	0735	0748	0826	S10	E02	.089	15778	23.5	51	-F	C	0748	10	.1	Y5	
614 CULG	23	0811	0817	0827	N20	E31	.637	15787	25.7	16	-N	C	0817	20	.3	Y5	
615 TELV	23	1240	1244	1310	N17	E12	.427	15777	24.4	30	-N	C	1244	123	1.3	F Y5	
616 TELV	23	1244	1254	1310	S12	E04	.135	15778	23.8	26	-N	C	1254	123	1.2	U Y5	
617 RAMY	23	1537	1540	1557	S23	E63	.892	15788	28.4	20	-N	3 C		21		Y5	
618 RAMY	23	1540	1541	1545	S23	W67	.919	15767	18.6	5	-N	3 C		23		Y5	
619 RAMY	23	1618	1618	1625	S26	E49	.779	15786	27.4	7	-B	3 C		19		Y5	
620 RAMY	23	1645	1646	1656	S12	W02	.122	15778	23.5	11	-N	3 C		30		Y5	
GRP71621	23	1718	1727	1744	S15	E37	.611	15785	26.5	26	-N			45	.6		
BIGB	23	1718	1727	1740	S14	E38	.621	15785	26.6	22	-N	1 C	1727	40			
RAMY	23	1732E	1732U	1748	S16	E36	.600	15785	26.4	160	-N	3 C		46			
622 RAMY	23	1728	1729	1737	N18	E29	.600	15787	25.9	9	-N	3 C		19		Y5	
GRP71623	23	1751+6	1756+3	1812	S15	E37	.611	15785	26.5	21	-B			80	1.0		
RAMY	23	1751	1756	1908	S16	E36	.600	15785	26.4	77	-B	3 C		97			
BIGB	23	1755	1756	1805	S15	E38	.624	15785	26.6	10	-N	2 C	1756	50			
PALE	23	1757	1759	1812	S14	E37	.608	15785	26.5	15	-B	3 C		90		DE	
624 RAMY	23	1806	1806	1815	S26	E48	.769	15786	27.4	9	-N	3 C		46		Y5	
625 RAMY	23	1806	1808	1808	N18	E28	.590	15787	25.9	2	-N	* C		47		Y5	
626 PALE	23	1820	1821	1823	S14	E37	.608	15785	26.5	3	-N	3 C		43		DE Y5	
627 PALE	23	1836	1837	1858	S14	E36	.595	15785	26.5	22	-N	3 C		37		DE Y5	
GRP71628	23	2006+1	2007+1	2017	N19	E24	.558	15787	25.6	11	-N			50	.6		
BIGB	23	2006	2007	2017	N11	E24	.483	15787	25.6	11	-N	3 C	2007	50			
CULG	23	2007	2008	2017	N20	E23	.558	15787	25.6	10	-N	C	2008	120	1.5		
PALE	23	2012E	2012U	2016	N19	E28	.598	15787	25.9	40	-B	3 C		52		DE	
GRP71629	23	2031+1	2033+1	2043	S10	W04	.107	15778	23.6	12	-B			80	.8		
BIGB	23	2031	2034	2043	S10	W04	.107	15778	23.6	12	-N	3 C	2034	70			
CULG	23	2031	2033	2050	S10	W04	.107	15778	23.6	19	-B	C	2033	60	.6		
PALE	23	2032	2034	2043	S12	W03	.128	15778	23.6	11	-B	3 C		115		DE F	
630 BIGB	23	2204	2218	2234	S32	E75	.964	15788	29.5	30	-N	3 C	2218	50		Y5	
631 PALE	23	2212	2212	2216	N12	E05	.309	15777	24.3	4	-N	3 C		53		Y5	
632 PALE	23	2333	2334	2337	S14	E34	.568	15785	26.5	4	-N	3 C		52		Y5	
633 PALE	24	0015	0016	0018	S25	E46	.746	15786	27.5	3	-B	3 C		18		DE Y5	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS				
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA			
					LAT.	MER. DIST.												TIME UT	MEAS. AREA	CORR AREA
																		Mill. of Disk	Sq. Deg.	
GRP71634	24	0134+3	0145+3	0208	N11	E08	.313	15777	24.7	34	1B		310	3.2	HL					
VORO	24	0134	0145	0208	N20	E08	.447	15777	24.7	34	1N	C	0145	412	4.4	EH				
CULG	24	0135	0145	01550	N11	E10	.328	15777	24.8	200	1B	P	0145	190	2.0	LF				
MITK	24	0135	0148	0215	N12	E09	.335	15777	24.7	40	1B	C	0148	360	3.9	F				
PALE	24	0137	0148	0206	N12	E03	.303	15777	24.3	29	1B	3 C		258		FDE				
PALE	24	0143	0144	0156	N08	E06	.253	15777	24.5	13	-B	3 C		43						
635 PALE	24	0219	0223	0232	S14	E32	.540	15785	26.5	13	-N	3 C		19		OE Y5				
636 VORO	24	0222	0224	0228	S11	W08	.169	15778	23.5	6	-F	C	0224	27	.2	D Y5				
637 VORO	24	0250	0250	0251	S27	E43	.723	15786	27.3	1	-F	C	0250	45	.6	E Y5				
638 VORO	24	0334	0336	03400	N21	E19	.534	15787	25.6	60	-N	C	0336	90	1.0	D Y5				
GRP71639	24	0416	0418+6	0453	S14	E31	.526	15785	26.5	37	-N									
MITK	24	0416	0418	0443	S14	E31	.526	15785	26.5	27	-N	C	0418			E				
CULG	24	0421E	0424	0503	S15	E32	.543	15785	26.6	420	-N	P	0424	90	1.1	F				
640 CULG	24	0435	0436	0448	N21	E19	.534	15787	25.6	13	-N	C	0436	20	.2	Y5				
641 CATA	24	0735E	0735	07400	N16	W01	.365	15777	24.2	50	1N	2 P	0735	196	2.1	Y5				
GRP71642	24	0815	0815	08310	S13	E29	.494	15785	26.5	16	-B					F				
CATA	24	0815	0815	08250	S13	E28	.479	15785	26.4	100	-B	2 P	0815	168	2.0					
MANI	24	0818E	0818U	08310	S13	E30	.508	15785	26.6	130	-N	3 C		40		F				
643 HTPR	24	0835E		0843	S14	E28	.483	15785	26.5	80	-F	C	0836	30	.3	E Y5				
GRP71644	24	0905+5	0912+3	0933	S10	W11	.205	15778	23.6	28	1B			210	2.2	E				
CATA	24	0905	0915	0935	S10	W11	.205	15778	23.6	30	1B	* C	0915	224	2.4					
HTPR	24	0910	0912	0930	S10	W13	.237	15778	23.4	20	-B	* C	0912	100	1.0	E				
KHAR	24	0914E		09300	S10	W10	.190	15778	23.6	160	1N	* P	0918	210	2.3	BE				
645 ABST	24	0906E	0913	0916D	S14	E30	.512	15785	26.6	100	-N	P	0913	131	1.6	E Y5				
646 HTPR	24	0959	1000	1002	N20	E15	.490	15787	25.5	3	-F	C	1000	30	.3	Y5				
647 HTPR	24	1016	1020	1026	N13	E25	.513	0	26.3	10	-F	C	1020	30	.3	Y5				
	24	1111	1121	NO FLARE PATROL																
648 HTPR	24	1123	1125	1126	N12	E05	.310	15777	24.8	3	-F	C	1125	50	.5	E Y5				
GRP71649	24	1129+2	1131	1157	S15	E26	.459	15785	26.4	28	-F			60	.7	E				
RAMY	24	1129E	1131	1157	S16	E26	.464	15785	26.4	280	-N	2 C		98						
HTPR	24	1131		11420	S15	E27	.473	15785	26.5	110	-F	C	1137	40	.5	E				
650 RAMY	24	1134	1134	1137	N18	E19	.500	15787	25.9	3	-N	2 C		41		Y5				
GRP71651	24	1220+5	1225	12380	S15	E27	.473	15785	26.5	18	1B			340	3.9	E				
HTPR	24	1220		12380	S15	E27	.473	15785	26.5	180	-N	C	1227	180	2.0	E				
CATA	24	1225	1225	12300	S14	E32	.540	15785	26.9	50	1B	2 P	1225	337	3.7					
RAMY	24	1232E	1232U	12360	S16	E26	.464	15785	26.5	40	1B	2 C		418		DE				
652 RAMY	24	1243	1245	1255	S26	E38	.666	15786	27.4	12	-N	2 C		105		Y5				
GRP71653	24	1247E		1315	N13	W01	.316	15777	24.5	28	-B					E				
HTPR	24	1247E		13000	N15	W02	.350	15777	24.4	130	-N	C	1251	110	1.1	E				
RAMY	24	1249E	1249	1315	N12	W01	.299	15777	24.5	260	1B	2 C		254		DE				
GRP71654	24	1519+1	1522+1	1530	N12	W05	.310	15777	24.3	11	-N			35	.4	E				
HTPR	24	1519	1523	1533	N13	W07	.336	15777	24.1	14	-F	C	1523	40	.4	E				
RAMY	24	1520	1522	1527	N12	W03	.303	15777	24.4	7	-B	2 C		29						
	24	1704	1829	NO FLARE PATROL																
	24	0825	0826	NO FLARE PATROL																
655 RAMY	24	1713E	1715U	1728	S26	E34	.622	15786	27.3	150	-B	3 C		89		H Y5				
GRP71656	24	1903+0	1903+2	1917	N12	W06	.315	15777	24.3	14	-N			90	.9					
PALE	24	1903E	1903U	19190	N12	W07	.321	15777	24.3	160	-N	3 C		56		DE				
RAMY	24	1903	1905	1914	N12	W05	.310	15777	24.4	11	-B	3 C		123						
GRP71657	24	1912	1914	1927	S15	E22	.401	15785	26.4	15	1B			230	2.5					
RAMY	24	1912	1914	1928	S16	E22	.408	15785	26.5	16	1B	3 C		314						
PALE	24	1918E	1918U	1926	S14	E23	.410	15785	26.5	80	-B	3 C		155		DE F				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.		
					LAT.	MER. DIST.												
658 RAMY	24	1915	1917	1922	S26	E35	.633	15786	27.4	7	-N	3	C		26			Y5
659 RAMY	24	1930	1932	1935	S16	E22	.408	15785	26.5	5	-N	3	C		33			Y5
GRP71660	24	2001+5	2005+1	2015	S12	W16	.295	15778	23.6	14	-N				40	.4		
RAMY	24	2001	2005	2019	S12	W17	.310	15778	23.6	18	-B	3	C		48			
PALE	24	2006	2006	2011	S12	W16	.295	15778	23.6	5	-N	3	C		28			DE F
661 PALE	24	2055	2055	2110	S26	W14	.416	15779	23.8	23	-N	3	C		44			DE Y5
662 CULG	24	2114	2204	2311	S12	W41	.656	15774	21.8	117	1F		C	2204	160	2.1	L	Y5
663 CULG	24	2135	2139	2204	N18	W50	.815	15772	21.1	29	-N		C	2139	50	.9		Y5
664 CULG	24	2145	2148	2200	S14	E23	.410	15785	26.6	15	-F		C	2148	40	.4		Y5
665 CULG	24	2150	2224	2239	N18	W08	.417	15777	24.3	49	-F		C	2224	60	.7	F	Y5
666 CULG	24	2156	2202	2218	N20	W42	.748	15772	21.8	22	-F	*	C	2202	10	.2		Y5
667 CULG	24	2248	2302	2354	S14	E23	.410	15785	26.7	66	-N		C	2302	80	.9	F	Y5
668 CULG	24	2250	2257	2302	S24	W86	.995	15767	18.5	12	-F		C	2257	10			Y5
669 CULG	25	0041	0048	0058	N17	W53	.838	15772	21.1	17	-F		C	0048	20	.4		Y5
670 CULG	25	0132	0150	0223	S24	E35	.621	15786	27.7	51	-F		C	0150	40	.6		Y5
GRP71671	25	0138+1	0144+2	0206	S28	W25	.541	15784	23.2	28	-F							EJ
VORO	25	0138	0144	0205	S28	W25	.541	15784	23.2	27	-N		C	0144	143	1.7		EJ
MITK	25	0139	0146	0206D	S28	W25	.541	15784	23.2	27D	-F		C	0146				E
672 PALE	25	0222	0223	0228	S14	E21	.380	15785	26.7	6	-N	3	C		32			DE Y5
GRP71673	25	0317+2	0323+1	0402	S14	E20	.366	15785	26.6	45	-B				170	1.8		
CULG	25	0317	0323	0402	S14	E19	.351	15785	26.6	45	-N		C	0323	170	1.8	F	
PALE	25	0318	0324	0325D	S14	E20	.366	15785	26.6	7D	1B	3	V		226			
MITK	25	0319		0321D	S13	E20	.360	15785	26.6	2D	-B		P	0321				E
HANI	25	0325E	0325U	0336D	S14	E20	.366	15785	26.6	11D	-B	3	C		100			FOE
674 CULG	25	0413	0423	0500	S27	E38	.670	15786	28.0	47	-F		C	0423	40	.6		Y5
675 CULG	25	0423	0426	0452	S15	E20	.372	15785	26.7	29	-N		C	0426	40	.4		Y5
676 CULG	25	0440	0510U	0531	S29	W25	.550	15784	23.3	51	-F		C	0510	20	.2		Y5
677 CULG	25	0609	0611	0622	S23	E30	.557	15786	27.5	13	-F		C	0611	40	.5		Y5
GRP71678	25	0626+0	0628+1	0744	S14	E18	.337	15785	26.6	78	-N				160	1.9		EK
CULG	25	0626	0629	0744	S14	E19	.351	15785	26.7	78	1N		C	0629	200	2.1	FK	
ABST	25	0626	0628	0658	S15	E18	.344	15785	26.6	32	-N		C	0628	166	1.8	E	
ABST	25	0723	0727	0751D	S13	E17	.315	15785	26.6	28D	-F		P	0727	166	1.8	E	
679 CULG	25	0707	0717	0731	S20	E52	.794	15788	29.2	24	-F		C	0717	50	.8		Y5
GRP71680	25	0820+1	0826	0831	S26	W21	.480	15779	23.8	11	-F							E
HTPR	25	0820E		0829	S26	W21	.480	15779	23.8	9D	-F		C	0821	30	.3		E
ABST	25	0821	0826	0832	S26	W21	.480	15779	23.8	11	1F		C	0826	218	2.5		E
681 HTPR	25	1009	1016	1017	S14	E14	.279	15785	26.5	8	-F		C	1016	20	.2		Y5
682 HTPR	25	1039	1040	1053	S15	E16	.315	15785	26.6	14	-N		C	1040	80	.8	E	Y5
683 HTPR	25	1055	1059	1106	S14	E14	.279	15785	26.5	11	-F		C	1059	30	.3	E	Y5
GRP71684	25	1150+4	1152+4	1218	S25	E27	.536	15786	27.5	28	-N							
HTPR	25	1150	1152	1210	S25	E30	.570	15786	27.7	20	-N		C	1152	60	.7		
RAMY	25	1154	1156	1225	S26	E25	.522	15786	27.4	31	-B	3	C		170			
GRP71685	25	1218>9	1224	1315	S14	E15	.293	15785	26.6	57	-N							U
TELV	25	1218	1224	1231	S09	E19	.328	15785	26.9	57	-N		C	1238	98	1.0		U
RAMY	25	1221	1231	1316	S14	E12	.252	15785	26.4	55	-B	3	C		48			
HTPR	25	1229	1239	1300	S15	E15	.302	15785	26.6	31	-F		C	1239	30	.3		
	25	1245	1250		NO FLARE PATROL													

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.	
					LAT.	MER. DIST.												
	25	1328	1330	NO FLARE PATROL														
	25	1340	1417	NO FLARE PATROL														
686 RAMY	25	1340	1340	1400	S14	E12	.252	15785	26.5	20	-N	3	C	20		Y5		
GRP71687	25	1417+0	1418	1458	S26	E24	.512	15786	27.4	41	1B			420	5.0			
HTPR	25	1417E		1455	S26	E26	.533	15786	27.5	380	1B	C	1417	370	4.3	EF		
RAMY	25	1417	1418	1501	S26	E23	.501	15786	27.3	44	1B	3	C	465		F0E		
688 HTPR	25	1439	1442	1450	S14	E12	.252	15785	26.5	11	-F		C	1442	20	.2	E	Y5
	25	1507	1510	NO FLARE PATROL														
	25	1540	1551	NO FLARE PATROL														
	25	1556	1758	NO FLARE PATROL														
	25	1828	1831	NO FLARE PATROL														
689 BIGB	25	1940	1943	1952	S21	E88	.998	0	1.4	12	?N	3	C	1943	200		D	Y5
		IMP.2	NO	PALE														
GRP71690	25	2010+2	2021+1	2129	S14	E11	.238	15785	26.7	79	-B			150	1.6	F		
RAMY	25	2010	2022	2129	S14	E09	.213	15785	26.5	79	-B	3	C	178		F		
PALE	25	2012	2021U	2028D	S14	E11	.238	15785	26.7	160	-B	3	C	144		F		
CULG	25	2017E	2021U	2028D	S14	E15	.293	15785	27.0	110	-N		P	2021	140	1.5	B	
691 CULG	25	2121	2123	2130	S27	E18	.462	15786	27.2	9	-N		C	2123	60	.7		Y5
692 PALE	25	2137	2137	2234	S14	E10	.225	15785	26.7	57	-N	3	C		22		DE	Y5
	25	2144	2148	NO FLARE PATROL														
693 PALE	25	2251	2301	0020	S14	E22	.395	15785	27.6	89	-B	3	C		80		DE	Y5
	25	2313	2324	NO FLARE PATROL														
	25	0323	0325	NO FLARE PATROL														
694 PALE	25	2316	2316	2352	S14	E09	.213	15785	26.6	36	-N	3	C		54		DE	Y5
695 CULG	25	2336	2343	0035	S25	E25	.514	15786	27.9	59	-N		C	2343	130	1.5		Y5
696 CULG	26	0041	0055	0107	S27	E17	.452	15786	27.3	26	-F		C	0055	50	.6	T	Y5
GRP71697	26	0319+4	0324+2	0344	S12	E05	.141	15785	26.5	25	-N						E	
			0335+0															
CULG	26	0319	0324	0334	S12	E03	.124	15785	26.4	15	-F	C	0324	30	.3			
VORO	26	0323	0326	0331	S14	E03	.156	15785	26.4	8	-N	C	0326	99	1.0	E		
CULG	26	0332	0335	0348	S12	E08	.177	15785	26.7	16	-N	C	0335	40	.4			
VORO	26	0333	0335	0339	S12	E07	.164	15785	26.7	6	-B	C	0335	99	1.0	E		
698 CULG	26	0334	0336	0351	N19	W62	.912	15772	21.5	17	-N		C	0336	10	.3		Y5
699 CULG	26	0426	0434	0515	N22	E01	.463	15787	26.3	49	-N		C	0434	30	.3		Y5
700 CULG	26	0525	0534	0550	S27	E18	.461	15786	27.6	25	-F		C	0534	20	.2	T	Y5
701 CULG	26	0533	0537	0605	S26	W29	.565	15779	24.1	32	-N		C	0537	60	.8	L	Y5
GRP71702	26	0551	0554	0604D	S13	E04	.147	15785	26.5	13	-B						EJ	
CULG	26	0551	0554	0604	S13	E03	.139	15785	26.5	13	-B	C	0554	80	.8			
ABST	26	0553E	0616	0636D	S13	E05	.155	15785	26.6	43D	1N	P	0616	262	2.7	EJ		
GRP71703	26	0830+5	0834+5	0844	N21	W10	.474	15787	25.6	14	-F						E	
ABST	26	0830E	0834	0845	N22	W11	.494	15787	25.5	15D	-F	P	0834	87	1.0	E		
KANZ	26	0835	0839	0843	N20	W10	.460	15787	25.6	8	1F	2				D		
GRP71704	26	0850+4	0854	0943	S27	W31	.595	15779	24.0	53	-N						D	
			0901+1															
ABST	26	0850	0854	0900D	S27	W31	.595	15779	24.0	10D	-F	P	0854	157	2.0	D		
MONT	26	0853	0902	0926D	S27	W32	.605	15779	24.0	33D	-N	C	0902	110				
KANZ	26	0854	0901	0943	S26	W31	.588	15779	24.0	49	-N	2						
705 KANZ	26	0947	1005	1042	S14	E05	.170	15785	26.8	55	?N	2					F	Y5
		IMP.1	NO	CATA														
706 KANZ	26	1015	1018	1035	S27	W32	.605	15779	24.0	2D	-F	1					T	Y5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST											
GRP71707	26	1143+1	1144+0	1156	S14	W01	.148	15785	26.4	13	-B						
			1151														
RAMY	26	1143	1144	1156	S14	W01	.148	15785	26.4	13	-B	3	C		99		
RAMY	26	1143	1151	1156	S14	W01	.148	15785	26.4	13	-N	3	C		24		
KANZ	26	1144	1144	1156	S14	W01	.148	15785	26.4	12	-B	1					
708 KANZ	26	1203	1203	1217	S30	E15	.473	15786	27.6	14	-N	2					D Y5
709 RAMY	26	1424	1424	1428	N18	W09	.425	15787	25.9	4	-N	3	C		24		Y5
710 RAMY	26	1429	1444	1517	S14	W02	.151	15785	26.5	48	-N	3	C		72		Y5
711 RAMY	26	1431	1433	1435	N18	W09	.425	15787	25.9	4	-N	3	C		33		Y5
GRP71712	26	1752	1754+1	1806	N19	W08	.435	15787	26.1	14	-N				35	.4	F
BIGB	26	1752	1754	1600	N20	W05	.439	15787	26.4	8	-N	3	C	1754	20		
RAMY	26	1754E	1755	1612	N18	W11	.437	15787	25.9	180	-N	3	C		51		F
713 BIGB	26	1842	1843	1844	S28	E09	.407	15786	27.5	2	-N	1	C	1843	50		Y5
714 BIGB	26	1921	1923	1924	S15	W70	.935	15774	21.6	3	-N	1	C	1923	30		Y5
GRP71715	26	2025+0	2032	2210	S14	W03	.156	15785	26.6	105	-N						
			2047														
BIGB	26	2025	2047U	2114	S16	W04	.194	15785	26.6	49	1N	1	C	2047	260		
PALE	26	2025	2032	2220	S14	W03	.156	15785	26.6	115	-B	3	C		156		DE
CULG	26	2052E	2052	2136	S14	W05	.170	15785	26.5	440	-N		P	2052	100	1.0	
BIGB	26	2126	2152	2235	S13	W03	.139	15785	26.7	69	-N	*	P	2152	50		
CULG	26	2135	2205	2329	S13	W02	.134	15785	26.7	114	-N	*	C	2205	130	1.3	F
716 CULG	26	2104	2106	2111	S27	E07	.382	15786	27.4	7	-N		C	2106	30	.3	Y5
717 CULG	26	2105	2107	2117	N15	W32	.613	15777	24.9	12	-F		C	2107	20	.3	Y5
718 CULG	26	2234	2240	2248	S26	E06	.362	15786	27.4	14	-F		C	2240	60	.7	Y5
719 CULG	26	2316	2336	2345	S12	W11	.219	15785	26.1	29	-N	*	C	2336	20	.2	Y5
720 CULG	27	0012	0020	0044	N20	W10	.461	15787	26.3	32	-N		C	0020	80	.9	Y5
GRP71721	27	0028+1	0031+1	0041	S28	W51	.801	15784	23.2	13	-F						D
CULG	27	0028	0032	0044	S28	W51	.801	15784	23.2	16	-F		C	0032	30	.5	
VORO	27	0029	0031	0037	S28	W52	.810	15784	23.1	8	-N		C	0031	90	1.5	D
722 CULG	27	0153	0214	02180	N21	W11	.481	15787	26.3	250	-N		C	0214	40	.5	Y5
723 CULG	27	0330	0333	0343	S09	W50	.762	15778	23.4	13	-F		C	0333	30	.5	Y5
724 CULG	27	0356	0359	0413	S13	W14	.270	15785	26.1	17	-N		C	0359	20	.2	Y5
725 CULG	27	0452	0456	0529	N20	W12	.473	15787	26.3	37	-N		C	0456	40	.5	Y5
726 CULG	27	0520E	0520U	0526	S13	W16	.299	15785	26.0	60	-N		P	0520	60	.6	C Y5
727 MITK	27	0606E	0607	0608	S27	E03	.367	15786	27.5	20	-N		C	0607			D Y5
728 CULG	27	0630	0631	0644	S13	W16	.299	15785	26.1	14	-F		C	0631	40	.4	Y5
729 CULG	27	0715	0722	0748	N22	W14	.513	15787	26.3	33	-N		C	0722	50	.6	T Y5
730 CULG	27	0720	0739	0805	S20	E00	.248	15785	27.3	45	-N		C	0739	110	1.1	F Y5
731 CULG	27	0741	0745	0806	S28	E10	.412	15786	28.1	25	-N		C	0745	60	.7	Y5
732 CULG	27	0757	0806	0813	S13	W15	.284	15785	26.2	16	-N		C	0806	20	.2	Y5
GRP71733	27	0830	0834+1	0850D	N18	W16	.476	15787	26.2	20	-B				130	1.5	FU
CATA	27	0830	0834	0835D	N18	W16	.476	15787	26.2	50	-B	2	P	0834	168	2.1	
HANI	27	0833E	0835	0850D	N19	W16	.488	15787	26.2	170	-B	3	V		100		F U
	27	1418	1450	NO FLARE PATROL													
GRP71734	27	1554+4	1558+0	1603	S14	W16	.306	15785	26.5	9	-B				45	.5	F
RAMY	27	1554	1558	1559D	S14	W18	.335	15785	26.3	50	-B	3	C		50		F
HOLL	27	1558	1558	1603	S15	W15	.300	15785	26.5	5	-B	2	C		36		
735 HOLL	27	1716	1716	1719	S27	W48	.770	15777	24.1	3	-N	3	C		24		Y5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mm. of Disk	CORR AREA Sq Deg			
					LAT.	MER. DIST.													
736	HOLL	27	1716	1716	1722	N12	W46	.755	15779	24.3	6	-N	3	C		48		F	Y5
737	RAMY	27	1719	1721	1734	N18	W24	.551	15787	25.9	15	-N	3	C		19			Y5
738	HOLL	27	1740	1741	1744	N07	W45	.727	15777	24.4	4	-N	3	C		30			Y5
GRP71739		27	1759+0	1759+1	1805	N18	W24	.551	15787	25.9	6	-N				30	.4	F	
	RAMY	27	1759	1759	1804	N18	W24	.551	15787	25.9	5	-N	3	C		21			
	HOLL	27	1759	1800	1805	N18	W24	.551	15787	25.9	6	-N	3	C		36		F	
GRP71740		27	1819+2	1822+3	1831	N07	W43	.704	15777	24.5	12	-N				45	.6	F	
	RAMY	27	1819	1825	1831	N08	W42	.695	15777	24.6	12	-N	3	C		45		F	
	HOLL	27	1821	1822	1831	N07	W45	.727	15777	24.4	10	-N	3	C		36		F	
GRP71741		27	1835+3	1840+6	1908	N18	W24	.551	15787	26.0	33	-B				80	.9	F	
				1859															
	HOLL	27	1835	1840	1858	N18	W24	.551	15787	26.0	23	-B	3	C		71		F	
	RAMY	27	1838	1846	1912	N18	W25	.562	15787	25.9	34	-B	3	C		91		F	
	HOLL	27	1859	1859	1903	N18	W24	.551	15787	26.0	4	-N	3	C		68		F	
742	HOLL	27	1839	1845	1855	S27	W49	.780	15779	24.1	16	-N	3	C		26		F	Y5
GRP71743		27	1844+0	1845+0	1849	S14	W17	.321	15785	26.5	5	-N				30	.3		
	RAMY	27	1844	1845	1848	S14	W18	.335	15785	26.4	4	-N	3	C		27			
	HOLL	27	1844	1845	1849	S15	W17	.328	15785	26.5	5	-N	3	C		31			
GRP71744		27	1848+1	1849+0	1905	N12	W47	.765	15777	24.3	17	-B				60	.9		
	HOLL	27	1848	1849	1905	N12	W47	.765	15777	24.3	17	-B	3	C		62		FDE	
	RAMY	27	1849	1849	1912	N12	W44	.733	15777	24.5	23	-B	3	C		59		DE	
	PALE	27	1856E	1856U	1900	N11	W48	.773	15777	24.2	40	-B	2	C		38		DE	
GRP71745		27	1923+0	1923+0	1930	N07	W44	.716	15777	24.5	7	-N				40	.6		
	RAMY	27	1923	1923	1932	N08	W43	.707	15777	24.6	9	-N	3	C		25			
	HOLL	27	1923	1923	1927	N07	W46	.739	15777	24.4	4	-N	3	C		49			
746	CULG	27	2005E	2047U	0137	S30	E35	.656	0	30.5	332D	?F		P	2047	350	4.7	S	Y5
			IMP.1 NO	HOLL	PALE	RAMY													
GRP71747		27	2033>9	2037	2100	N09	W46	.745	15777	24.4	27	-N							E
				2045															
	RAMY	27	2033	2037	2102	N08	W44	.719	15777	24.6	29	-N	3	C		51			
	PALE	27	2044	2045	2054	N11	W49	.783	15777	24.2	10	-N	3	C		22		DE	
	PALE	27	2055	2055	2057	N11	W49	.783	15777	24.2	2	-N	3	C		22		DE	
748	PALE	27	2109	2112	2140	N11	W49	.783	15777	24.2	31	-N	3	C		43			Y5
GRP71749		27	2158+1	2159+1	2222	N10	W50	.790	15777	24.2	24	-B				70	1.1		
				2205															
	PALE	27	2158	2159	2231	N11	W50	.793	15777	24.2	33	-B	3	C		84		DE	
	CULG	27	2158	2159	2214	N10	W50	.790	15777	24.2	16	-N		C	2159	60	1.0		
	HOLL	27	2159	2200	2222	N07	W47	.750	15777	24.4	23	-B	3	C		98			
	HOLL	27	2205	2205	2215	N12	W49	.786	15777	24.2	10	-B	3	C		48			
GRP71750		27	2228>9	2240+4	2330	N20	W26	.591	15787	26.0	62	-B							U
	CULG	27	2228	2244	2353	N20	W25	.581	15787	26.1	85	-N		C	2244	150	1.9		
	HOLL	27	2230	2240	2330	N18	W27	.582	15787	25.9	60	1B	3	C		313		U F	
	PALE	27	2239	2243	2251	N20	W26	.591	15787	26.0	12	-B	3	C		87		FDE	
751	CULG	27	2352	2411	0026	N24	W55	.876	0	23.9	34	-F		C	2411	40	.7		Y5
752	CULG	28	0134	0136	0150	S13	W25	.434	15785	26.2	16	-F		C	0136	10	.1		Y5
GRP71753		28	0208	0220	0302	N17	W55	.856	15777	24.0	54	-N							F
				0230															
	CULG	28	0208	0230	0302	N15	W55	.851	15777	24.0	54	-N		C	0230	100	1.9		
	CULG	28	0215	0220	0243	N20	W55	.865	15777	24.0	28	-F		C	0220	30	.6	F	
754	CULG	28	0317	0322	0329	S23	W59	.860	15779	23.7	12	-N		C	0322	40	.8		Y5
755	CULG	28	0337	0350	0411	N13	W55	.846	15777	24.0	34	-N		C	0350	40	.8		Y5
756	CULG	28	0418	0432	0443	S13	W24	.419	15785	26.4	25	-F		C	0432	20	.2		Y5
757	CULG	28	0453	0507	0536	N12	W52	.816	15777	24.3	43	-N		C	0507	50	1.0		Y5
758	CULG	28	0556	0557	0605	S25	W59	.862	15779	23.8	9	-F		C	0557	10	.2		Y5

H α SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	NER. DIST											
759	CULG	28	0605	0633	0650	N13	W55	.846	15777	24.1	45	-N	C	0633	50	1.0	Y5
760	CULG	28	0614	0616	0619	S12	W28	.475	15785	26.2	5	-N	C	0616	10	.1	Y5
GRP71761		28	0621	0624	0656	S23	E09	.331	15788	28.9	35	-F					
	CULG	28	0621	0624	0641	S21	E06	.282	15788	28.7	20	-F	C	0624	10	.1	
	CULG	28	0637	0645	0656	S25	E12	.382	15788	29.2	19	-F	* C	0645	30	.3	
762	CULG	28	0622	0626	0634	S13	W29	.492	15785	26.1	12	-F	C	0626	40	.5	Y5
763	CULG	28	0704	0716	0736	N24	W26	.630	15787	26.3	32	-F	C	0716	30	.4	Y5
764	CULG	28	0732	0733	0740	S27	W55	.833	15779	24.2	8	-N	C	0733	40	.8	Y5
GRP71765		28	0818+2	0819	0827	N13	W57	.863	15777	24.1	9	-F					0
	CULG	28	0818	0819	0829D	N19	W57	.877	15777	24.1	110	-N	C	0819	40	.8	0
	ISTA	28	0820		0825	N08	W58	.861	15777	24.0	5	-F					0
		28	0835	0837													NO FLARE PATROL
		28	0902	0905													NO FLARE PATROL
766	CATA	28	0915	0920	0935D	N07	W57	.851	15777	24.1	200	1B	2 P	0920	140	2.0	Y5
		28	0935	0950													NO FLARE PATROL
767	RAMY	28	1234	1243	1256	N08	W53	.815	15777	24.5	22	-N	3 C		21		Y5
768	RAMY	28	1250	1252	1257	S14	W32	.538	15785	26.1	7	-B	3 C		69		H Y5
769	RAMY	28	1304	1309	1405	N12	W55	.843	15777	24.4	61	-B	3 C		110		F Y5
GRP71770		28	1411	1414	1456	N09	W56	.845	15777	24.4	45	-B					
				1429													
	RAMY	28	1411	1414	1443	N12	W55	.843	15777	24.5	32	-B	2 C		101		
	RAMY	28	1427	1429	1456	N08	W57	.852	15777	24.3	29	-N	* C		419		
	RAMY	28	1427	1442	1456	N08	W57	.852	15777	24.3	29	-B	* C		97		
771	RAMY	28	1420	1422	1428	N07	E75	.970	15802	3.2	8	-N	2 C				Y5
772	RAMY	28	1504	1506	1508	N07	E74	.966	15802	3.2	4	-F	2 C				Y5
773	RAMY	28	1544	1545	1548	N09	E76	.975	15802	3.4	4	-F	2 C				Y5
GRP71774		28	1733E	1734	1802	S14	W29	.496	15785	26.6	29	-B			50	.6	
	RAMY	28	1733E	1734U	1735D	S14	W30	.510	15785	26.5	2D	-B	2 C		42		
	HOLL	28	1737E	1737U	1802	S15	W29	.499	15785	26.6	25D	-B	3 C		73		
775	HOLL	28	1801	1811	1839	N07	W58	.859	15777	24.4	38	-N	3 C		55		F Y5
776	HOLL	28	1804	1804	1835	S15	W29	.499	15785	26.6	31	-B	3 C		44		F Y5
777	HOLL	28	1905	1905	1912	S27	W61	.880	15779	24.2	7	-N	3 C		14		F Y5
778	HOLL	28	1906	1906	1917	S15	W29	.499	15785	26.6	11	-N	3 C		20		F Y5
779	RAMY	28	1949	1949	1953	N07	E72	.956	15802	3.2	4	-N	2 C		10		Y5
780	RAMY	28	2002	2006	2011	N08	W57	.852	15777	24.6	9	-B	2 C		35		Y5
781	CULG	28	2238	2240	2247	S10	W79	.979	15778	23.0	9	-F	C	2240	20		Y5
782	CULG	29	0036	0048	0127	S23	W16	.393	15786	27.8	51	-N	C	0048	120	1.3	Y5
783	CULG	29	0119	0123	0132	S32	E30	.621	15794	31.3	13	-F	C	0123	20	.3	Y5
784	PALE	29	0204	0208	0219	S18	E37	.617	15792	31.9	15	1B	3 V		219		U F Y5
785	CULG	29	0509	0513	0600	S25	W18	.436	15786	27.9	51	-N	C	0513	60	.7	F Y5
786	CULG	29	0607	0609	0629	N12	W77	.980	15777	23.5	22	-N	C	0609	20		K Y5
787	CULG	29	0620	0631	0645	S13	W33	.549	15785	26.8	25	-F	C	0631	50	.6	Y5
788	CULG	29	0655	0658	0707	S27	W70	.937	15779	24.0	12	-F	C	0658	30		Y5

H α SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq Deg	
					LAT.	MER. DIST.												
GRP71789	29	0719+5	0725+5	0756	N10	E80	.988	15802	7.3	37	1F		100		DJ			
ABST	29	0719	0725	0802D	N11	E80	.989	15802	4.3	43D	1N	P	0725	87	DJ			
CULG	29	0724	0730	0749	N10	E80	.988	15802	4.3	25	1F	C	0730	120				
GRP71790	29	0807+3	0812+5	0826	N19	W43	.756	15787	26.1	19	-F				F			
ABST	29	0807	0812	0828D	N19	W44	.765	15787	26.0	21D	1F	P	0812	148	2.3			
CULG	29	0810	0817	0823	N20	W43	.761	15787	26.1	13	-F	C	0817	50	.8			
GRP71791	29	0826+5	0831+4	0838	S15	W40	.647	15785	26.4	12	-F				EU			
ABST	29	0826E	0831	0838	S15	W41	.660	15785	26.3	12D	-F	P	0831	140	1.9			
HTPR	29	0829	0831	0838	S14	W40	.645	15785	26.4	9	-F	C	0831	20	.3			
TELV	29	0831	0835	0855	S17	W38	.627	15785	26.5	24	-N	C	0835	82	1.0			
792	ABST	29	0833	0836	0842	N10	W81	.991	15777	23.3	9	? F	C	0836	87	E	Y5	
	IMP.1	NO	HTPR															
GRP71793	29	0835+9	0849+4	0856	N10	E68	.937	15802	6.5	21	1F				D			
ABST	29	0835	0849	0856	N10	E68	.937	15802	3.5	21	1N	C	0849	105				
ABST	29	0846	0859	0859D	N09	E75	.971	15802	4.0	13D	1F	P	0859	105				
HTPR	29	0850	0853	0856	N10	E65	.918	15802	3.2	6	-F	C	0853	30	.7			
794	HTPR	29	1027	1054	1100	S13	E90	1.000	15804	5.2	33	-F	C	1054	10		Y5	
795	RAMY	29	1141	1145	1154	N18	W65	.930	15777	24.6	13	-N	2 C		80		Y5	
GRP71796	29	1147+3	1148+2	1153	S14	W44	.695	15785	26.2	6	-B			50	.7			
HTPR	29	1147	1148	1153	S14	W44	.695	15785	26.2	6	-N	C	1148	30	.4			
RAMY	29	1148	1149	1153	S14	W40	.645	15785	26.5	5	-B	3 C		50				
CATA	29	1150	1150	1155	S15	W44	.697	15785	26.2	5	-B	2 C	1150	67	2.1			
797	CATA	29	1155	1200	1205	S12	E90	1.000	15804	5.2	10	-F	2 C	1200	28	1.3	Y5	
798	RAMY	29	1201	1201	1216	N18	W65	.930	15777	24.6	15	-N	3 C		13		Y5	
GRP71799	29	1200+5	1202+3	1214	S15	W41	.660	15785	26.4	14	-N			70	.9			
TELV	29	1200	1203	1220	S18	W40	.655	15785	26.5	20	-N	* C	1203	82	1.0			
HTPR	29	1201	1202	1212	S14	W42	.671	15785	26.4	11	-F	* C	1202	30	.4			
RAMY	29	1202	1205	1215	S14	W40	.645	15785	26.5	13	-B	* C		59				
CATA	29	1205	1205	1210	S17	W42	.676	15785	26.4	5	-B	* C	1205	84	2.4			
800	RAMY	29	1216	1217	1234	N18	W48	.799	15787	25.9	18	-N	3 C		33		Y5	
801	RAMY	29	1218	1228	1240	N18	W65	.930	15777	24.6	22	-N	3 C		53		Y5	
GRP71802	29	1219+6	1222+3	1232	S12	E90	1.000	15804	8.3	13	-N							
HTPR	29	1219	1222	1229	S13	E90	1.000	15804	5.3	10	-F	C	1224	10				
CATA	29	1225	1225	1235	S12	E90	1.000	15804	5.3	10	1N	2 C	1225	45	1.6			
803	RAMY	29	1227	1229	1231	N07	E62	.892	15802	3.2	4	-N	3 C		16		Y5	
804	RAMY	29	1323	1324	1349	N18	W66	.935	15777	24.6	26	-B	3 C		18		Y5	
805	RAMY	29	1338	1338	1343	N08	W66	.922	15777	24.6	5	-N	2 C		23		Y5	
806	RAMY	29	1437	1437	1438	N18	W66	.935	15777	24.7	1	-N	2 C		16		Y5	
GRP71807	29	1520+2	1523+1	1531	N08	E68	.935	15802	6.7	11	-N			25				
HTPR	29	1520	1524	1530	N09	E70	.947	15802	3.9	10	-N	C	1524	20	.5			
RAMY	29	1522	1523	1532	N08	E66	.922	15802	3.6	10	-B	2 C		25				
808	RAMY	29	1602	1604	1617	S14	E83	.990	15804	4.9	15	-B	3 C				Y5	
809	RAMY	29	1617	1621	1626	S26	W75	.961	15779	24.1	9	-N	3 C		21		Y5	
810	RAMY	29	1734	1736	1751	N14	W84	.997	15777	23.4	17	-N	3 C		39		Y5	
811	BIGB	29	1734	1738	1746	S10	W85	.995	15778	23.4	12	? N	1 C	1738	60		A	Y5
	IMP.1	NO	RAMY															
812	RAMY	29	1740	1740	1744	N08	E64	.909	15802	3.5	4	-N	3 C		14		Y5	
813	BIGB	29	1801	1803	1805	N14	E90	1.000	0	5.5	4	? N	1 C	1803	60		Y5	
	IMP.1	NO	RAMY															
814	RAMY	29	1810	1811	1829	S26	W30	.574	15786	27.5	19	-N	3 C		55		Y5	
815	CULG	29	2020E	2020E	2049	N25	W71	.968	0	24.5	29D	-F	P	2020	60		Y5	

H α SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
844 ISTA	31	0800		0812	N10	W90	1.000	15777	24.6	12	-F				A	Y5	
845 KANZ	31	0817	0817	0822	S16	E65	.902	15804	5.2	5	-F	2				Y5	
846 ISTA	31	0840		0850	N21	W73	.972	15787	25.9	10	-F				D	Y5	
847 KAND	31	0854	0908	0918	N11	W90	1.000	15777	24.6	24	-N		C			Y5	
848 ISTA	31	0912		0927	N07	E48	.762	15802	4.0	15	-F				D	Y5	
GRP71849	31	0929+0	0932+1	0939	S13	E64	.894	15804	8.2	10	-N						
KANZ	31	0929	0932	0939	S14	E65	.901	15804	5.3	10	-N	2					
HTPR	31	0929	0933	0938	S13	E64	.894	15804	5.2	9	-N		C	0933	40	.8	
GRP71850	31	1040+1	1045+1	1056	N22	W76	.983	15787	25.7	16	-F					A	
KAND	31	1040	1045	1058	N22	W77	.986	15787	25.7	18	-F		C			A	
KANZ	31	1041	1046	1054	N23	W75	.980	15787	25.8	13	-F	1					
GRP71851	31	1114+2	1115+1	1119	S13	E61	.870	15804	8.0	5	-F				40	.8	
KAND	31	1114	1116	1120	S14	E60	.862	15804	5.0	6	-F		C		35	.8	
HTPR	31	1114	1115	1119	S13	E62	.878	15804	5.1	5	-F		C	1115	20	.4	
GATA	31	1115E	1115	1115D	S13	E69	.929	15804	5.6		-B	2	P	1115	56	2.0	
KANZ	31	1116	1116	1116	S14	E58	.844	15804	4.8		-F	1					
GRP71852	31	1236+3	1239	1307	N07	E43	.705	15802	6.7	31	-F						
			1247														
KANZ	31	1236	1247	1301	N06	E42	.689	15802	3.7	25	-F	2					
HTPR	31	1239	1239	1255	N08	E43	.708	15802	3.8	16	-F		C	1239	20	.3	
HTPR	31	1243	1256	1313	N10	E45	.738	15802	3.9	30	-F		C	1256	20	.3	
853 KANZ	31	1353	1359	1407	N06	E25	.464	0	2.5	14	-N	2				DG Y5	
GRP71854	31	1444+0	1446+6	1530D	S25	W49	.772	15786	27.9	46	-B					K	
			1507														
KANZ	31	1444	1452	1456D	S25	W49	.772	15786	27.9	120	-B	1					
HTPR	31	1444	1446	1530	S27	W49	.778	15786	27.9	46	-N		C	1446	30	.6	
RAMY	31	1444	1507	1606	S25	W51	.792	15786	27.8	82	1B	3	C		322		
	31	1601	1617	NO FLARE PATROL													
855 RAMY	31	1614	1618	1642	S25	W51	.792	15786	27.9	28	-B	3	C		104		F Y5
856 CULG	31	2048	2132	0200	S33	E12	.489	15798	1.8	312	?N		C	2132	330	3.8	SI Y5
		IMP.1	NO : HOLL	PALE													
857 CULG	31	2050	2107U	2208	S14	E60	.862	15804	5.4	78	?F		C	2107	100	2.1	Y5
		IMP.1	NO : HOLL	PALE													
	31	2238	2243	NO FLARE PATROL													

Peking H α Solar Flares for January 1979 (Received too late for Inclusion in Group Reports)

PEKG	01	0450E	0450	0455	S42	W80	.984		25.2	50	SF		P	0450	13		D
PEKG	04	0601E	0601	0605	S13	W07	.198		3.7	40	SN		C	0601	63	32.0	D
PEKG	09	0200	0208	0215	N17	E51	.812		12.9	15	SN		C	0208	105	89.0	D
PEKG	09	0340	0400	0515	N09	W12	.296		8.3	95	1B		C	0400	336	76.0	EF
PEKG	09	0605	0606	0609	N20	E50	.812		13.0	4	SN		P	0606	109	92.0	D
PEKG	10	0145E	0145	0146D	N09	W25	.466		8.2	10	1N		P	0145	420	38.0	FE
PEKG	10	0724	0725	0731	N15	E35	.632		12.9	7	1N		C	0725	252	65.0	E
PEKG	13	0230	0236	0245	N14	W01	.291		13.0	15	SF		C	0236	126	66.0	E
PEKG	13	0305	0309	0317	S17	W48	.757		9.5	12	SF		C	0309	84	63.0	D
PEKG	13	0311	0315	0320	N13	W02	.276		13.0	9	1N		C	0315	252	33.0	E
PEKG	14	0540	0543	0550	N15	W01	.306		14.2	10	SN		C	0543	84	45.0	E
PEKG	14	0601	0603	0610	N15	W17	.415		13.0	9	SN		C	0603	84	47.0	E
PEKG	15	0348E	0348	0356	N16	W30	.574		12.9	80	SN		P	0348	84	52.0	E
PEKG	15	0522	0527	0536	N15	W32	.592		12.8	14	SN		C	0527	42	27.0	E
PEKG	15	0714	0726	0746	N15	W33	.604		12.8	32	2B		C	0726	547	48.0	F
PEKG	15	0737	0742	0742D	S21	W74	.962		9.8	50	SN		P	0742	84		D

Editor's Note: Peking Observatory data, though received too late for complete data processing, are included here as a supplemental list to the grouped flare data. These Peking data present additional valuable information on solar flare occurrences.

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM POR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DAY	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.											
PEKG	18	0042E	0050	0105	S15	E50	.776		21.8	230	SF	P	0050	84	67.0	D	
PEKG	18	0042E	0050	0110	N13	H70	.946		12.8	280	1N	P	0050	252		E	
PEKG	18	0055E	0055	0100D	N19	E49	.795		21.7	50	SF	P	0055	105	86.0		
PEKG	18	0210	0215	0230	N14	H71	.952		12.8	20	1N	P	0215	126		E	
PEKG	18	0250	0255	0310	N15	H70	.948		12.9	20	SF	P	0255	50			
PEKG	18	0425E	0425	0435	N14	H73	.962		12.7	100	2N	C	0425	252		E	
PEKG	18	0653	0654	0700	N12	H74	.965		12.7	7	SN	C	0654	84		D	
PEKG	19	0230E	0230	0240	N19	E35	.648		21.7	100	SF	C	0230	126	85.0	E	
PEKG	19	0240E	0240	0250	N14	E74	.966		24.7	100	SF	C	0240	50		D	
PEKG	19	0425E	0430	0440	S23	H09	.383		18.5	150	1N	C	0430	378	01.0	F	
PEKG	21	0120E	0120	0130	S27	E37	.687		23.8	100	SF	P	0120	84	56.0	E	
PEKG	21	0425E	0425	0430	N11	E41	.679		24.3	50	SF	P	0425	42	29.0	D	
PEKG	23	0135	0150	0156	N20	H14	.434		22.0	21	SN	P	0150	105	60.0	D	
PEKG	23	0410	0415	0420	N20	H15	.443		22.0	10	SF	P	0415	84	48.0		
PEKG	23	0443E	0443	0445	N12	E14	.335		24.2	20	SF	C	0443	42	23.0	D	
PEKG	23	0630	0636	0640	N21	H16	.464		22.1	10	SN	C	0636	168	97.0	E	
PEKG	23	0637	0642	0652	N11	E14	.324		24.3	15	2B	C	0642	547	95.0	FU	
PEKG	23	0656	0659	0710	N13	E12	.325		24.2	14	SN	C	0659	168	90.0	EF	
PEKG	23	0705	0718	0725D	N21	E40	.710		26.3	200	SF	C	0718	84	61.0	F	
PEKG	24	0140	0149	0205	N11	E10	.277		24.8	25	2N	C	0149	547	90.0	I	
PEKG	24	0335D	0339	0342	N21	E19	.489		25.6	70	SF	C	0339	42	25.0	D	
PEKG	24	0740E	0740	0750	N12	H01	.237		24.2	100	SN	P	0740	168	88.0		
PEKG	25	0140	0145	0210	S28	H23	.565		23.3	30	SF	P	0145	84	49.0	E	
PEKG	25	0420	0430	0430D	S15	E20	.405		26.7	100	SN	P	0430	63	34.0	E	
PEKG	25	0504	0509	0515	S29	H25	.593		23.3	11	SF	P	0509	42	25.0	D	

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 a 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 calcium II lines H and K.
 P = Flare shows helium D₃ in emission.
 Q = Flare shows the Balmer continuum in emission.
 R = Marked asymmetry in H α line suggests ejection of high velocity material.
 S = Brightness follows disappearance of filament (same position).
 T = Region active all day.
 U = Two bright branches, parallel (||) or converging (Y).
 V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H α line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

JANUARY 1979			DAILY FLARE INDICES			Includes all Flares		
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
790101	89.67	22.6	790112	183.30	24.0	790123	114.65	23.8
790102	93.13	20.5	790113	234.16	23.8	790124	314.20	22.4
790103	126.46	22.5	790114	116.24	23.7	790125	241.70	20.7
790104	48.74	21.4	790115	193.72	22.5	790126	90.79	24.0
790105	115.67	21.2	790116	295.29	23.7	790127	94.76	23.5
790106	35.10	22.6	790117	49.32	22.3	790128	68.45	23.7
790107	78.53	23.7	790118	69.90	21.6	790129	99.24	24.0
790108	132.56	21.8	790119	109.91	23.6	790130	71.10	23.3
790109	135.16	23.6	790120	82.01	19.4	790131	19.66	23.7
790110	94.59	24.0	790121	190.00	19.5			
790111	163.02	22.2	790122	144.45	23.6			

When no Flare Index is given, it is 0 for that day.