

# H $\alpha$ SOLAR FLARES

OCTOBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mil of Disk		CORR AREA Sq. Deg.		
					LAT.	MER. DIST.													
GRP78248	01	0002+4	0007+1	0011	N19	H46	.723	16315	27.6	9	-F								
CULG	01	0002	0007	0011	N19	H46	.723	16315	27.6	9	-F	C	0007	100	1.5	D			
VORO	01	0006	0008	0010	N19	H47	.735	16315	27.5	4	-N	C	0008	80	1.1	D			
GRP78249	01	0023+5	0029+4	0044	S12	H62	.902	16321	26.4	21	-N								DJ
CULG	01	0023	0033	0047	S13	H62	.904	16321	26.4	24	-F	C	0033	30	.8	DJ			
VORO	01	0028	0029	0040	S12	H62	.902	16321	26.4	12	-B	C	0029	81	.8	DJ			
250 CULG	01	0030	0123	0220	N10	H26	.437	16325	29.1	110	-F	C	0123	120	1.4	S		ZX	
251 CULG	01	0041	0046	0111	N17	H48	.743	16315	27.4	30	-F	C	0046	60	.9			ZX	
252 CULG	01	0112	0121	0128	N13	E43	.679	16337	4.3	16	-N	C	0121	50	.7	T		ZX	
GRP78253	01	0141+2	0144+2	0156	N16	H48	.741	16315	27.5	15	-N			90	1.4	E			
CULG	01	0141	0146	0201	N16	H48	.741	16315	27.5	20	-F	C	0146	60	.9	E			
VORO	01	0143	0144	0150	N16	H49	.752	16315	27.4	7	1N	C	0144	134	2.0	E			
GRP78254	01	0151+4	0157+1	0202	N14	E40	.642	16337	4.1	11	-F							DH	
VORO	01	0151	0158	0208	N15	E40	.644	16337	4.1	9	-F	C	0158	99	1.3	DH			
CULG	01	0155	0157	0203	N13	E40	.641	16337	4.1	8	-F	C	0157	30	.4	H			
255 CULG	01	0250	0252	0255	N18	H54	.806	16315	27.1	5	-F	C	0252	10	.2			ZX	
256 CULG	01	0302	0309	0332	N13	H33	.546	16318	28.7	30	-F	C	0309	40	.5			ZX	
257 CULG	01	0309U	0329U	0353U	S30	E40	.880	16334	4.1	440	-F	C	0329	40	.7	F		ZX	
258 CULG	01	0310	0312	0320	N18	H53	.797	16315	27.2	10	-F	C	0312	30	.5			ZX	
259 CULG	01	0345	0356	0432U	S24	H15	.560	16324	30.0	470	?N	C	0356	280	3.5	F		ZX	
		IMP.1	NO	PURP		HITK													
260 CULG	01	0355	0357	0408	N16	H75	.960	16313	25.5	13	-N	C	0357	60				ZX	
261 CULG	01	0404	0408	0417	N10	E81	.985	16336	7.2	13	-F	C	0408	20		T		ZX	
262 CULG	01	0406	0408	0418	S40	E10	.739	16331	1.9	12	-F	C	0408	60	.8	G		ZX	
263 CULG	01	0446	0452	0459	S23	H18	.567	16324	29.8	13	-F	C	0452	60	.7			ZX	
264 CULG	01	0518	0526	0531	N15	E66	.907	16336	6.2	13	-F	C	0526	70	1.6	T		ZX	
265 CULG	01	0536	0539	0544	N20	H55	.818	16315	27.1	8	-F	C	0539	50	.9	H		ZX	
GRP78266	01	0545+9	0556+5	0622	S25	H16	.579	16324	30.0	37	1B			210	2.5	EJ			
TACH	01	0545D	0558	0620	S25	H16	.579	16324	30.0	350	1B	C	0558	221	2.7	E			
CULG	01	0554	0559	0633	S25	H16	.579	16324	30.0	39	1N	P	0559	350	4.2				
PURP	01	0556E	0556	0612	S25	H16	.579	16324	30.0	160	1B	P							
ABST	01	0558E	0559	06270	S26	H16	.591	16324	30.0	290	1N	P	0559	208	2.6	EJ			
ATHN	01	0600E	0601U	0619	S23	H15	.547	16324	30.1	190	-B	3	C	127		F			
GRP78267	01	0600>9	0623+1	06490	N21	H50	.770	16315	27.5	49	-F							EJKV	
CULG	01	0600	0624U	0649U	N21	H51	.780	16315	27.4	490	-F	P	0624	80	1.2				
ABST	01	0622	0623	06400	N22	H49	.762	16315	27.6	180	1F	P	0623	175	2.8	EJKV			
268 ABST	01	0638	0639	0643	N14	E37	.603	16337	4.1	5	-F	C	0639	105	1.4	EV		ZX	
269 TELV	01	0649E	0651	0705	N27	E22	.487	16329	2.9	160	-N	3		122	1.3			ZX	
270 CULG	01	0649	0652	0656	N19	H56	.826	16315	27.1	7	-N	C	0652	60	1.1			ZX	
GRP78271	01	0729E	0806+4	0840	N17	H52	.785	16315	27.4	71	1N							E	
			0836																
KHAR	01	0729E		0755D	N16	H52	.785	16315	27.4	260	-F	* P						E	
ISTA	01	0740E		0816	N16	H52	.785	16315	27.4	360	1N	* P						E	
KHAR	01	0802E	0807	0815D	N17	H58	.843	16315	27.0	130	-F	* P							
CATA	01	0805	0810	0845	N15	H51	.773	16315	27.5	40	1B	* C	0810	140	2.2				
PURP	01	0806E	0806	0816	N18	H49	.755	16315	27.7	100	1B	* P							
ISTA	01	0835	0836	0840	N19	H56	.826	16315	27.2	5	-F	*						D	
272 ISTA	01	0740E		0805D	N20	H37	.619	16318	28.5	250	-F							E	
273 TELV	01	0819	0821	0944D	N29	E36	.650		4.0	850	-N	3		30	.3			ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP78274	01	0846		0859	N18	W51	.776	16315	27.5	13	1N						U
ISTA	01	0846		0900	N18	W53	.797	16315	27.4	14	1N						U
PURP	01	0852E	0852	0858	N18	W50	.766	16315	27.6	6D	1B	C					
275 ISTA	01	0853	0859	0912	N17	W26	.460	16325	29.4	19	-N						D ZX
276 ISTA	01	0907		0910	N14	E57	.833	16336	5.7	3	-F						D ZX
277 TELV	01	0908E	0910	0936	N22	E80	.979	16336	7.4	28D	-F	3		27			ZX
GRP78278	01	0920+4	0922+5	0949	N16	W51	.774	16315	27.6	29	1B			130	2.1		
CATA	01	0920	0925	0955	N16	W52	.785	16315	27.5	35	1B	2	C	0925	168	2.8	
MONT	01	0922E	0922	0950	N17	W51	.775	16315	27.6	28D	-N		C	0922	100		
ATHN	01	0924	0927	0947	N16	W59	.852	16315	27.0	23	-B	3	C		111		F
ISTA	01	0930E		0947	N18	W51	.776	16315	27.6	17D	1B						E
279 ISTA	01	0945	0947	0959	N14	E38	.616	16337	4.3	14	-N						D ZX
280 RAMY	01	1136	1136	1149	N17	W53	.796	16315	27.5	13	-N	3	C		46		F ZX
281 RAMY	01	1444	1446	1532	N14	E60	.860	16336	6.1	48	-F	3	C		17		ZX
282 HUAN	01	1608		1615	N18	W56	.826	16315	27.5	7	-F	1	C				ZX
GRP78283	01	1754	1824	1916	N10	E74	.957	16336	7.3	82	-N						E
BIGB	01	1754	1824	1916	N09	E75	.962	16336	7.4	82	-B	2	C	1824	120		
HUAN	01	1816E		1830D	N12	E74	.956	16336	7.3	14D	-N	1	P	1816	60		E
284 BIGB	01	1822	1823	1825	N24	W55	.823	16315	27.6	3	-F	2	C	1823	20	.4	ZX
285 BIGB	01	1826	1827	1831	N20	W57	.836	16315	27.5	5	-F	2	C	1827	60	1.1	ZX
286 BIGB	01	1926	1928	1945	N28	W58	.854	16315	27.5	19	-B	2	C	1928	60	1.2	ZX
GRP78287	01	2131+1	2133+0	2143	N20	W62	.878	16315	27.2	12	-N			80	1.8		
BIGB	01	2131	2133	2148	N20	W63	.886	16315	27.2	17	-B	2	C	2133	80	1.8	
CULG	01	2132	2133	2138	N20	W61	.870	16315	27.3	6	-N		P	2133	80	1.7	
288 CULG	01	2223U	2223U	2232	N23	W60	.864	16315	27.4	9D	-F		P	2223	40	.8	ZX
289 CULG	02	0046	0102	0144	N13	W29	.488	16325	29.9	58	-F		C	0102	60	.7	F ZX
290 CULG	02	0053	0057	0106	S24	W27	.649	16324	30.0	13	-F		C	0057	50	.7	ZX
291 CULG	02	0148	0154	0211	N18	W61	.870	16315	27.5	23	-N		C	0154	50	1.0	ZX
292 CULG	02	0330E	0330U	0331D	S23	W30	.666	16324	29.9	10	-F		P	0330	60	.8	ZX
293 CULG	02	0403	0404	0410	S26	W45	.814	16322	28.8	7	-F		C	0404	50	.9	ZX
294 CULG	02	0413	0424	0432	N19	W66	.908	16315	27.2	19	-F		C	0424	60	1.3	ZX
295 CULG	02	0435	0444	0528	N13	E60	.860	16336	6.7	52	-F		P	0444	70	1.4	F ZX
296 TACH	02	0539	0540	0543	S13	W89	1.000	16314	25.6	4	-B		C	0540	44		D ZX
297 CULG	02	0552E	0552U	0556	S26	W47	.830	16322	28.7	40	-F		P	0552	50	1.0	ZX
298 CULG	02	0555	0556U	0556D	N19	W65	.901	16315	27.4	10	-F		P	0556	20	.5	ZX
299 CULG	02	0635	0647	0710	N13	E23	.399	16337	4.0	35	-N		C	0647	180	2.0	K ZX
300 HTPR	02	0717	0720	0736	N11	E50	.761	16336	6.1	19	-F		C	0720	20	.3	E ZX
301 HTPR	02	0726	0728	0745	N13	E25	.429	16337	4.2	19	-F		C	0728	10	.1	ZX
302 HTPR	02	0839	0849	0900	N13	E24	.414	16337	4.2	21	-F		C	0849	30	.3	E ZX
GRP78303	02	0935+1	0935+5	1003	N13	E24	.414	16337	4.2	28	-B			130	1.4		E
CATA	02	0935E	0940	0955D	N14	E22	.388	16337	4.0	20D	-B	2	P	0940	168	1.8	
LOCA	02	0935E	0935	0955	N13	E23	.399	16337	4.1	20D	1N		V	0935	224	2.5	
HTPR	02	0936	0938	1110	N13	E27	.601	16337	4.4	94	-B		C	0938	100	1.2	E
ATHN	02	0937E	0939U	0947	N13	E25	.429	16337	4.3	10D	-B	2	C		48		DE
KHAR	02	0947E		1020D	N13	E25	.429	16337	4.3	33D	1F		P	0947	200	2.3	BE

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP78304	02	0959+2	1001+1	1019	N16	W67	.914	16315	27.4	20	-F			10			D
TELV	02	0959	1001	1028	N15	W63	.885	16315	27.7	29	-N	2		6	.1		D
KHAR	02	1001E	1001	1019D	N17	W69	.927	16315	27.2	18D	-F		P				
HTPR	02	1001	1002	1010	N16	W67	.914	16315	27.4	9	-F		C	1002	10	.2	
305 TELV	02	1011E		1040D	N19	E03	.219	16329	2.6	29D	-N	3					ZX
306 TELV	02	1039	1041	1047	N17	W43	.685	16325	29.2	8	-N	2		40	.5		ZX
307 RAMY	02	1122	1123	1126	S25	W32	.700	16324	30.1	4	-F	3	C		22		ZX
308 HTPR	02	1135	1140	1145	N23	E90	.999	16341	9.2	10	-F		C	1140	20		A ZX
GRP78309	02	1158+1	1158+3	1208	N14	E90	1.000	16344	9.2	10	-N						AD
KHAR	02	1158E	1158	1202D	N12	E90	1.000	16344	9.2	4D	-F		P				D
HTPR	02	1159	1201	1208	N15	E90	1.000	16344	9.2	9	-N		C	1201	50		A
RAMY	02	1201E	1201U	1208	N14	E84	.992	16344	8.8	7D	-B	3	C				
GRP78310	02	1201	1355	1418	N27	E84	.989	16341	8.8	137	-F						
RAMY	02	1201	1355	1418	N27	E78	.972	16341	8.4	137	-F	3	C				
KHAR	02	1212E	1212	1230D	N27	E90	.999	16341	9.3	18D	-N		P				
311 HTPR	02	1212	1216	1250	N12	E24	.411	16337	4.3	38	-F	*	C	121E	20	.2	ZX
312 RAMY	02	1241	1242	1252	S25	W33	.708	16324	30.1	11	-F	3	C		27		ZX
313 RAMY	02	1336	1337	1350	S28	W50	.861	16322	28.8	14	-F	3	C		20		ZX
GRP78314	02	1342+1	1344+1	1401	N13	E23	.399	16337	4.3	19	-F				30	.3	E
HTPR	02	1342	1345	1405	N12	E23	.396	16337	4.3	23	-F		C	1345	30	.3	E
RAMY	02	1343	1344	1357	N15	E23	.407	16337	4.3	14	-N	3	C		31		
315 RAMY	02	1400	1400	1418	N13	E56	.823	16336	6.8	18	-F	3	C		15		ZX
GRP78316	02	1437+5	1446	1604D	S29	E25	.682	16334	4.5	87	1N						HU
RAMY	02	1437	1446	1604	S28	E26	.680	16334	4.6	87	1N	3	C		182		F
LOCA	02	1440	1500	1515D	S30	E25	.693	16334	4.5	35D	2N	V	1500	469	6.7		H
BIGB	02	1442	1458	1715	S29	E24	.676	16334	4.4	153	-B	2	C	1458	140	1.6	
HTPR	02	1451E		1528D	S29	E26	.689	16334	4.6	37D	1B	C	1455	300	3.3		EU
317 RAMY	02	1442	1443	1446	N13	E55	.814	16336	6.7	4	-F	3	C		21		ZX
318 BIGB	02	1558	1601	1615	N23	E90	.999	16341	9.4	17	-N	2	C	1601	40		ZX
GRP78319	02	1620	1622	1638	N12	E21	.365	16337	4.3	18	-N						E
BIGB	02	1620	1622	1638	N12	E21	.365	16337	4.3	18	-N	1	C	1622	60	.7	
HUAN	02	1627E		1633D	N13	E22	.384	16337	4.3	6D	-N	1	P	1629	30	.3	E
320 BIGB	02	1719	1722	1736	S31	E22	.684	16334	4.4	17	-N	1	C	1722	30	.3	ZX
321 BIGB	02	1742	1743	1758	N22	E85	.992	16341	9.1	16	-N	1	C	1743	60		ZX
322 BIGB	02	1748	1750	1802	S24	W36	.727	16324	30.0	14	-N	1	C	1750	40	.5	ZX
323 BIGB	02	1827	1828	1832	N22	W78	.972	16315	26.9	5	-N	2	C	1828	30		ZX
324 BIGB	02	1850	1852	1905	N22	E85	.992	16341	9.2	15	-N	2	C	1852	60		A ZX
325 BIGB	02	1938	1940	1953	N22	E89	.998	16341	9.5	15	-N	2	C	1940	20		ZX
326 BIGB	02	1944	1945	1959	N12	E62	.877	16336	7.5	15	-F	2	C	1945	60	1.3	ZX
327 BIGB	02	2031	2034	2053	S17	W40	.720	16324	29.9	22	-F	2	C	2034	40	.5	ZX
328 CULG	02	2102	2105	2110	N15	E14	.277	16337	3.9	8	-F		C	2105	80	.8	T ZX
GRP78329	02	2119+9	2147+5	2155D	S23	W40	.756	16324	29.9	36	-F						
CULG	02	2119	2152	2229	S23	W40	.756	16324	29.9	70	1F		C	2152	260	3.9	
BIGB	02	2146	2147	2155	S23	W40	.699	16324	29.9	9	-F	2	C	2147	30	.4	
330 CULG	02	2125	2128	2133	N15	E14	.277	16337	3.9	8	-F		C	2128	80	.8	T ZX
331 BIGB	02	2139	2145	2220	S26	W56	.894	16322	28.7	41	-N	2	C	2145	60	1.1	ZX

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST.											
GRP78332	02	2153+6	2204+3	2325	N13	E55	.814	16336	7.0	92	2N						IS
CULG	02	2153	2207	2325	N12	E55	.814	16336	7.0	92	3N	P	2207	850	14.5		SI
BIGB	02	2159	2204	2246D	N14	E55	.814	16336	7.0	47D	18	2	P	2204	170	3.0	
333 CULG	02	2237E	2237U	2250U	N13	E16	.292	16337	4.1	13D	-N	P	2237	190	1.9	T	ZX
334 CULG	02	2240	2249	2255	N22	H74	.955	16315	27.4	15	-F	C	2249	40			ZX
335 CULG	02	2304	2305	2314	S23	H40	.756	16324	30.0	10	-F	C	2305	20	.3		ZX
336 CULG	02	2322	2325	2341	N15	H55	.814	16318	28.8	19	-N	C	2325	40	.7	S	ZX
337 CULG	02	2341	2344	2349	N02	E52	.788		6.9	8	-F	C	2344	20	.3		ZX
338 CULG	02	2343	2344	2359	N25	H75	.959	16315	27.4	16	-F	C	2344	40			ZX
339 CULG	03	0021	0028	0035	N20	H76	.964	16315	27.3	14	?N	P	0028	80			ZX
		IMP.1	NO	PURP													
340 CULG	03	0159	0216	0226	N22	H75	.960	16315	27.5	27	?N	P	0216	80			ZX
		IMP.1	NO	PURP													
GRP78341	03	0216+4	0223+0	0234	N14	E15	.284	16337	4.2	18	-N			100	1.0	D	
CULG	03	0216	0223	0237	N14	E15	.284	16337	4.2	21	-N	C	0223	100	1.1	T	
VORO	03	0220	0223	0230	N15	E15	.291	16337	4.2	10	-N	C	0223	108	1.1	D	
GRP78342	03	0237+9	0255+3	0308	N14	E14	.269	16337	4.2	31	1F			310	3.2	EJ	
CULG	03	0237	0255U	0307U	N14	E14	.269	16337	4.2	30D	1F	P	0255	400	4.0	T	
VORO	03	0253	0258	0308	N14	E14	.269	16337	4.2	15	1F	C	0258	215	2.2	EJ	
343 CULG	03	0255	0328U	0343U	S27	E16	.602	16334	4.3	48D	-F	P	0328	120	1.6	S	ZX
344 CULG	03	0325E	0328	0345D	N19	E08	.252	16337	3.7	20D	-N	P	0328	140	1.4		ZX
GRP78345	03	0831+3	0835+5	0855	S23	H44	.790	16324	30.1	24	1N			140	2.2		
HTPR	03	0831	0835	0850	S22	H45	.794	16324	30.0	19	-N	C	0835	100	1.4	E	
MONT	03	0832	0835	0856	S24	H44	.796	16324	30.1	24	-N	C	0835	180			
ATHN	03	0834	0837	0850D	S23	H40	.755	16324	30.4	16D	-B	3	C	111		FDE	
CATA	03	0835E	0840	0855D	S24	H44	.796	16324	30.1	20D	18	2	P	0840	224	3.8	
346 HTPR	03	0835	0836	0842	N15	H52	.784	16325	29.5	7	-F	C	0836	20	.3		ZX
347 HTPR	03	0921	0925	0951	N14	E40	.643	16336	6.4	30	-F	C	0925	30	.4	E	ZX
348 HTPR	03	1010	1015	1030	N16	E10	.234	16337	4.2	20	-F	C	1015	20	.2		ZX
349 HTPR	03	1215E		1245	N15	E45	.706	16336	6.9	30D	-F	C	1219	20	.3	E	ZX
350 RAMY	03	1236	1238	1241	N19	E83	.988	16344	9.8	5	-F	3	C	11		DE	ZX
351 RAMY	03	1259	1304	1314	S25	H46	.817	16324	30.1	15	-F	3	C	17		DE	ZX
GRP78352	03	1358+3	1403	1417	N13	E10	.203	16337	4.3	19	-F			45	.5		
HTPR	03	1358E		1406D	N14	E13	.255	16337	4.6	8D	-N	C	1404	60	.6	E	
RAMY	03	1401	1403	1417	N13	E07	.163	16337	4.1	16	-F	3	C	25		FDE	
353 BIGB	03	1810	1812	1825	N15	E90	1.000	16344	10.5	15	-N	1	C	1812	20		ZX
354 BIGB	03	1828	1831	1839	N22	E72	.945	16341	9.2	11	-N	1	C	1831	10		ZX
	03	2241	0007	NO FLARE PATROL													
355 PURP	04	0025	0040	0052	N12	E48	.739	16336	7.6	27	1F	C					ZX
	04	0031	0035	NO FLARE PATROL													
356 PALE	04	0208	0211	0212	N13	H74	.956	16318	28.5	4	-F	3	C	12		F	ZX
357 PURP	04	0425	0436	0442	N24	H79	.976	16315	28.3	17	-N	C					ZX
GRP78358	04	0806	0826	0831	N15	E80	.981	16344	10.3	25	-N						
KANZ	04	0806	0826D	0830	N15	E78	.973	16344	10.2	24	-N	2					
HTPR	04	0828E	0828	0831	N15	E83	.989	16344	10.6	3D	-F	C	0828	30			
359 ISTA	04	0834	0835	0842	N18	E85	.993	16344	10.7	8	-F					E	ZX
360 KANZ	04	0927E	0927D	0927	S26	H74	.981	16322	28.8		-N	2				D	ZX

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA	CORR AREA	
					LAT.	MER. DIST.											
GRP78361	04	0940+0	0944+3	0950	N13	E79	.978	16344	10.3	10	-F				40		E
MONT	04	0940	0947	0949	N13	E79	.978	16344	10.3	9	-F	C	0947		50		E
KANZ	04	0940	0947	0951	N14	E76	.965	16344	10.1	11	-F	2					
HTPR	04	0941E	0944	0950	N13	E80	.981	16344	10.4	9D	-F	C	0944		30		
GRP78362	04	1048+2	1051	1200D	N11	E27	.455	16336	6.5	72	1N				250	2.8	EH
KANZ	04	1034	1049	1049D	N14	E26	.448	16336	6.4	15D	1N	3					
MONT	04	1048	1051	1137D	N11	E28	.470	16336	6.6	49D	-N	C	1051		200		H
HTPR	04	1049E		1051D	N08	E28	.466	16336	6.6	2D	1N	C	1051		300	3.3	E
CATA	04	1050	1105	1200D	N11	E27	.455	16336	6.5	70D	1N	2	P	1105		224	2.6
HTPR	04	1103E		1105D	N08	E28	.466	16336	6.6	2D	1N	C	1103		300	3.3	E
	04	1200	1225	NO FLARE PATROL													
GRP78363	04	1235	1247	1255D	N22	E64	.895	16341	9.3	20	-N						U
KANZ	04	1235	1247	1255	N24	E62	.881	16341	9.2	20	-N	3					
RAMY	04	1242E		1338	N20	E67	.915	16341	9.6	56D	-B	3	C		210		UOE
364 RAMY	04	1332	1334	1346	S27	H71	.972	16324	29.2	14	-F	3	C		17		ZX
365 RAMY	04	1338	1340	1346	N11	E20	.346	16336	6.1	8	-F	3	C		39		ZX
GRP78366	04	1421+2	1425+1	1437	N17	E71	.939	16344	9.9	16	-N						
KANZ	04	1421	1425	1436	N14	E76	.965	16344	10.3	15	-N	1					
RAMY	04	1423	1426	1438	N20	E66	.908	16344	9.5	15	-B	3	C		29		
367 RAMY	04	1425E		1458	S27	H71	.972	16324	29.3	33D	-B	3	C				FDE ZX
	04	1449	1504	NO FLARE PATROL													
368 RAMY	04	1510	1512	1545	S27	H71	.972	16324	29.3	35	-F	3	C				ZX
369 BIGB	04	1554	1607	1747	N14	E76	.965	16344	10.4	113	-B	2	C	1607	150		A ZX
370 BIGB	04	1640	1646	1715	S23	H88	1.000	16322	28.1	35	-B	2	C	1646	70		A ZX
GRP78371	04	1911+2	1913+0	1923	N25	E58	.851	16341	9.1	12	-F				35	.7	
BIGB	04	1911	1913	1926	N24	E60	.866	16341	9.3	15	-F	2	C	1913	50	1.0	
RAMY	04	1913	1913	1920	N27	E56	.837	16341	9.0	7	-N	3	C		23		
372 PALE	04	1928E	1929U	2015D	N17	E71	.939	16344	10.1	47D	-F	2	C		43		ZX
GRP78373	04	2103+1	2105+0	2135	N26	E59	.860	16341	9.3	32	-B				50	1.0	F
BIGB	04	2103	2113	2135	N24	E62	.881	16341	9.5	32	-B	1	C	2113	40	.9	
HOLL	04	2104	2105U	2108D	N27	E55	.829	16341	9.0	4D	-N	2	C		44		
RAMY	04	2104	2105	2125D	N27	E60	.869	16341	9.4	21D	-B	3	C		35		
PALE	04	2105E	2111	2130D	N25	E59	.859	16341	9.3	24D	-N	3	C		67		F
GRP78374	04	2114+9	2129	2147	S33	E73	.983	16348	10.4	33	-F						G
BIGB	04	2114	2129	2151D	S36	E75	.990	16348	10.5	37D	-F	1	P	2129	80		G
HOLL	04	2130	2141	2143	S31	E71	.976	16348	10.2	13	-F	2	C				
375 HOLL	04	2127	2131	2135	N18	E68	.921	16344	10.0	8	-F	2	C		25		ZX
376 HOLL	04	2151	2154	2235	N18	E67	.915	16344	9.9	44	-N	2	C		24		F ZX
377 PALE	04	2202	2202U	2216D	N26	E58	.852	16341	9.3	14D	-N	3	C		78		F ZX
	04	2205	2210	NO FLARE PATROL													
	04	2228	2231	NO FLARE PATROL													
378 PALE	04	2237	2253U	2309D	N17	E69	.927	16344	10.1	32D	-F	3	C		56		F ZX
379 CULG	04	2315	2319	2330	N13	H62	.877	16345	30.3	15	-F		P	2319	40	.8	ZX
380 PALE	04	2315	2325	2327D	N17	E69	.927	16344	10.1	12D	?N	*	C		157		F ZX
		IMP.1 NO : BIGB															
	04	2359	0000	NO FLARE PATROL													
381 CULG	05	0008	0013	0025D	N14	E67	.915	16344	10.0	17D	?N		P	0013	200	4.8	L ZX
		IMP.1 NO : PURP															

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST.											
GRP78382	05	0200+2	0204+1	0212D	N14	E63	.885	16344	9.8	12	-N			80	1.8	H	
CULG	05	0200	0204	0212	N14	E64	.893	16344	9.9	12	1N	C	0204	100	2.2		
PALE	05	0202	0205	0255	N15	E63	.885	16344	9.8	53	-N	3	C	64		DE H	
383 CULG	05	0210	0235U	0312	S35	E75	.989	16348	10.7	62	?F	P	0235	120		FK ZX	
		IMP.1	NO :	PURP	PALE												
384 PALE	05	0235	0238	0240	S25	W67	.953	16324	30.1	5	-F	3	C	26		ZX	
385 PALE	05	0257	0321	0321D	N17	E65	.901	16344	10.0	240	?N	3	C	126		OE ZX	
		IMP.1	NO :	PURP													
GRP78386	05	0311+2	0319	0413D	S22	W70	.962	16324	29.9	62	-F					L	
			0342														
CULG	05	0311U	0338U	0413U	S22	W70	.962	16324	29.9	620	-F	P	0338	60			
PALE	05	0313	0319	0321D	S25	W68	.957	16324	30.0	80	-F	3	C	23			
CULG	05	0342E	0342U	0345D	S16	W73	.969	16324	29.7	30	1F	P	0342	80		L	
387 CULG	05	0326	0338	0404U	N19	W15	.329	16337	4.0	380	-N	P	0338	110	1.2	SF ZX	
GRP78388	05	0555+5	0601+1	0609	N25	E54	.817	16341	9.3	14	-B					D	
PURP	05	0555	0601	0603	N25	E52	.798	16341	9.1	8	1N	C					
TACH	05	0600	0602	0614	N26	E56	.836	16341	9.5	14	-B	C	0602	44	.8	D	
389 KHAR	05	0735E	0739	0745D	N16	E65	.900	16344	10.2	100	-N	P				E ZX	
390 KHAR	05	0812E		0834D	N17	E65	.901	16344	10.2	220	-F	P				E ZX	
391 KHAR	05	0825E	0828	0847D	S35	E72	.983	16348	10.8	220	?N	P				E ZX	
		IMP.1	NO :	PURP													
392 KHAR	05	0831E	0832	0834D	N26	E57	.844	16341	9.6	30	-N	P				D ZX	
393 KHAR	05	0913E	0917	0923D	S35	E77	.993	16348	11.2	100	-F	P				ZX	
394 CATA	05	1040E	1040	1040D	N24	E39	.660	16341	8.4		-N	2	P	1040	140	1.9	ZX
	05	1100	1130	NO FLARE PATROL													
GRP78395	05	1130E	1142	1240D	N14	E59	.852	16344	9.9	70	2N					EIK	
			1153														
KHAR	05	1130E	1153	1240D	N14	E66	.908	16344	10.4	700	2N	P	1153	270		EK	
KHAR	05	1130E	1142	1208D	N14	E52	.784	16344	9.4	380	1F	P	1142	165	2.9	E	
HTPR	05	1201E		1237D	N15	E60	.861	16344	10.0	360	2N	C	1204	300	6.0	BEI	
	05	1240	1242	NO FLARE PATROL													
396 HOLL	05	1410E	1421	1452	S28	W86	1.000	16324	29.1	420	?B	3	C				ZX
		IMP.1	NO :	RAMY													
397 HOLL	05	1607	1609	1612	N27	E44	.725	16341	9.0	5	-F	3	C	30		ZX	
398 HOLL	05	1619	1629	1706D	N18	E57	.835	16344	10.0	470	-F	3	C	37		ZX	
399 HOLL	05	1657	1701	1706D	N27	E44	.725	16341	9.0	90	-F	3	C	31		ZX	
400 HOLL	05	1739	1739	1746	N26	E47	.752	16341	9.3	7	-N	3	C	29		ZX	
401 HOLL	05	1840	1844	1905	S29	W86	1.000	16324	29.3	25	-F	3	C			ZX	
402 HOLL	05	1842	1913	1919	N17	E56	.825	16344	10.0	37	-N	3	C	36		ZX	
GRP78403	05	2020+1	2022+1	2044	N14	E58	.843	16344	10.2	24	-B			50	1.0		
BIGB	05	2020	2023	2048	N14	E60	.860	16344	10.3	28	-B	2	C	2023	60	1.2	
HOLL	05	2021	2022	2039	N15	E56	.824	16344	10.0	18	-B	3	C	39		DE	
GRP78404	05	2024+0	2026+1	2044	S27	W83	.998	16324	29.6	20	-N						
HOLL	05	2024	2027	2034	S30	W86	1.000	16324	29.4	10	-N	3	C				
BIGB	05	2024	2026	2054	S24	W80	.994	16324	29.9	30	-B	1	C	2026	60		
GRP78405	05	2041>9	2103+4	2111	S15	E38	.687	16343	8.7	30	-F			30	.4	F	
HOLL	05	2041	2103	2113	S15	E38	.687	16343	8.7	32	-F	*	C	40			
PALE	05	2057	2107	2109	S16	E39	.703	16343	8.8	12	-F	*	C	23		F	
406 BIGB	05	2048	2054	2107	S36	E67	.969	16348	10.9	19	-N	1	C	2054	110		ZX



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq Deg		
					LAT.	MER. DIST.												
432 CULG	06	0445	0446	0453	S24	H90	1.001	16324	29.4	8	-N	C	0446	70		T	ZX	
GRP78433	06	0452+0	0502	0533	N16	E51	.775	16344	10.0	41	-N							
			0512															
CULG	06	0452	0502	0540	N16	E50	.764	16344	10.0	48	1N	C	0502	160	2.6			
PURP	06	0500	0512	0526	N16	E53	.796	16344	10.2	26	-F	C						
434 CULG	06	0459	0504U	0552	S14	E32	.613	16343	8.6	53	-F	C	0504	30	.4		ZX	
GRP78435	06	0532>9	0540	0602	N25	E45	.729	16341	9.6	30	-F						U	
			0552															
CULG	06	0532	0540	0603D	N25	E44	.719	16341	9.5	31D	-F	P	0540	140	2.0		U	
PURP	06	0542	0552	0601	N26	E47	.753	16341	9.8	19	-F	C						
GRP78436	06	0621+7	0628+4	0703	N25	E40	.675	16341	9.3	42	2N			410	5.7		FJ	
ABST	06	0621	0628	0710	N26	E40	.680	16341	9.3	49	1N	C	0628	175	2.5		FJ	
CULG	06	0624E	0632U	0646D	N24	E36	.626	16341	9.0	22D	2N	P	0632	410	5.7			
ISTA	06	0625E	0631U	0703	N25	E41	.686	16341	9.3	38D	2B						BF	
PURP	06	0628	0629	0655	N25	E43	.708	16341	9.5	27	2B	P		566	8.1			
GRP78437	06	0700+0	0706+4	0730	N14	E40	.643	16344	9.3	30	2N			550	7.3		FIJ	
ABST	06	0700	0706	0731	N15	E39	.632	16344	9.2	31	1F	P	0731	262	3.4		FJ	
ISTA	06	0700	0710	0728	N14	E42	.668	16344	9.4	28	2B	*					F	
HTRP	06	0704E	0710	0740	N14	E37	.604	16344	9.1	36D	2N	C	0707	500	6.1		EI	
PURP	06	0708	0709	0728	N16	E44	.696	16344	9.6	20	2B	*	P	604	8.3			
GRP78438	06	0738+7	0744+4	0815	N25	E39	.664	16341	9.2	37	1B			200	2.7		FIJ	
ABST	06	0738	0744	0809	N27	E41	.695	16341	9.4	31	1N	C	0744	218	3.1		FJ	
HTRP	06	0740	0746	0830	N24	E35	.614	16341	8.9	50	1B	C	0746	200	2.4		EI	
ISTA	06	0743	0748	0825	N25	E39	.664	16341	9.2	42	2B						F	
PURP	06	0744	0746	0747	N16	E51	.775	16341	10.1	3	1N	P						
CATA	06	0745	0745	0810	N26	E38	.658	16341	9.2	25	1B	2	P	0745	168	2.3		
GRP78439	06	0841	0844	0856	N17	E54	.806	16344	10.4	15	-N						J	
HTRP	06	0841	0844	0901	N15	E53	.795	16344	10.3	20	-F	C	0844	30	.5		E	
ABST	06	0845E	0845	0850	N19	E56	.827	16344	10.6	5D	1N	P	0845	201	3.5		DJ	
440 HTRP	06	1109	1113	1124	N15	E41	.657	16344	9.5	15	-B	C	1113	140	1.9		E	ZX
441 LVOV	06	1202	1206	1226	S23	H50	.839	16346	2.8	24	?F	C	1206	150	2.8		DG	ZX
		IMP.1 NO :	HTPR															
442 HTRP	06	1304	1308	1325	N15	E45	.706	16344	9.9	21	-F	C	1308	20	.3		E	ZX
443 RAMY	06	1401	1402	1411	S23	H48	.823	16346	3.0	10	-N	3	C		19			ZX
GRP78444	06	1408>9	1409	1424	N27	E35	.630	16341	9.2	16	-N						E	
			1420															
RAMY	06	1408	1409	1423	N27	E33	.608	16341	9.1	15	-N	3	C		38			
LVOV	06	1418	1420	1424	N27	E38	.663	16341	9.4	6	1F	C	1420	150	2.1		E	
GRP78445	06	1411+6	1415	1431	S23	H50	.839	16346	2.8	20	-F						DG	
			1425															
LVOV	06	1411	1415	1424	S23	H52	.855	16346	2.7	13	-N	C	1415	100	1.8		DG	
RAMY	06	1417	1425	1438	S23	H48	.823	16346	3.0	21	-F	3	C		15			
446 WEND	06	1428E		1443	N25	E34	.608	16341	9.2	15D	-N	V						ZX
447 WEND	06	1428E		1440	N14	E49	.751	16344	10.3	12D	-F	* V						ZX
GRP78448	06	1454+4	1500+1	1509	N14	E49	.751	16344	10.3	15	-N			50	.8			
WEND	06	1454	1500	1506	N14	E49	.751	16344	10.3	12	-N	V						
HOLL	06	1458	1500	1507	N15	E50	.763	16344	10.4	9	-N	3	C		29			
BIGB	06	1458	1501	1511	N13	E49	.751	16344	10.3	13	-N	1	C	1501	70	1.1		
HUAN	06	1500E		1510	N14	E50	.763	16344	10.4	10D	-N	1	P	1502	40	.6		
449 HUAN	06	1512		1518	N16	E47	.731	16344	10.2	6	-F	1	C					ZX
450 HUAN	06	1529E		1533D	N18	E53	.797	16344	10.6	4D	-F	1	P	1532	25	.4		ZX
GRP78451	06	1754+0	1755+0	1804	N25	E35	.619	16341	9.4	10	-N			40	.5		E	
HOLL	06	1754	1755	1804	N28	E35	.636	16341	9.4	10	-N	3	C		41			
BIGB	06	1754	1755	1826	N25	E35	.619	16341	9.4	32	-N	2	C	1755	50	.6		
HUAN	06	1755E		1802	N25	E35	.619	16341	9.4	7D	-N	1	P	1757	40	.5		E



## H $\alpha$ 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	HALE FLARE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA		
					LAT.	MER. DIST												Mill of Disk
452 BIGB	06	1859	1900	1911	N13	E49	.751	16344	10.5	12	-F	2	C	1900	20	.3	ZX	
453 BIGB	06	1955	1959	2008	N09	E64	.894	16350	11.6	13	-N	2	C	1959	30	.7	ZX	
GRP78454	06	1957+1	1959+1	2012	N25	E35	.619	16341	9.5	15	-N				50	.6	E	
HUAN	06	1957		2002	N25	E35	.619	16341	9.5	5	-N	1	C	1959	65	.8	E	
HOLL	06	1958	2000	2012	N27	E35	.630	16341	9.5	14	-B	3	C		61			
BIGB	06	1958	1959	2014	N24	E36	.626	16341	9.5	16	-N	2	C	1959	30	.4		
GRP78455	06	1959+1	2001+0	2009	S18	W52	.837	16346	2.9	10	-N				35	.6		
BIGB	06	1959	2001	2011	S19	W55	.865	16346	2.7	12	-N	2	C	2001	50	.9		
HOLL	06	2000	2001	2006	S18	W50	.820	16346	3.1	6	-N	3	C		24			
456 HOLL	06	2026	2028	2037	N27	E36	.641	16341	9.6	11	-B	3	C		90		DE ZX	
GRP78457	06	2030+2	2032+1	2041	S18	W52	.837	16346	3.0	11	-N				35	.6		
BIGB	06	2030	2033	2045	S19	W55	.865	16346	2.7	15	-N	2	C	2033	50	.9		
HOLL	06	2032	2032	2037	S18	W50	.820	16346	3.1	5	-N	3	C		18			
GRP78458	06	2045+2	2049+0	2100	N14	E44	.693	16344	10.2	15	-F							
CULG	06	2045	2049	2102U	N14	E44	.693	16344	10.2	17D	-F		C	2049	100	1.4		
BIGB	06	2047	2049	2057	N14	E44	.693	16344	10.2	10	-F	2	C	2049	20	.3		
459 CULG	06	2122	2128	2137	S20	W57	.983	16346	2.6	15	-F		C	2128	20	.4	ZX	
460 BIGB	06	2142	2143	2153	N14	E44	.693	16344	10.2	11	-F	2	C	2143	50	.7	ZX	
461 CULG	06	2238	2241	2256	N10	E03	.080	16336	7.2	18	-F		C	2241	30	.3	T ZX	
462 CULG	06	2334	2338	2346	S20	W54	.860	16346	2.9	12	-F		C	2338	20	.4	ZX	
GRP78463	07	0049+6	0057+1	0114	N14	E40	.643	16344	10.0	25	-N				110	1.5	EHJ	
CULG	07	0049	0058	0123	N14	E41	.656	16344	10.1	34	-N		C	0058	100	1.3		
VORO	07	0055	0057	0104	N14	E40	.643	16344	10.0	9	-B		C	0057	134	1.8	EHJ	
GRP78464	07	0117+2	0121+0	0130	N11	W01	.082	16336	7.0	13	-N				170	1.7	E	
CULG	07	0117	0121	0134	N11	W01	.082	16336	7.0	17	-F		C	0121	130	1.3		
VORO	07	0119	0121	0126	N11	W02	.087	16336	6.9	7	1N		C	0121	206	2.1	E	
465 CULG	07	0221	0224	0230	N15	E40	.645	16344	10.1	9	-N		C	0224	100	1.3	ZX	
466 CULG	07	0255	0258	0305	N10	E00	.063	16336	7.1	10	-N		C	0258	40	.4	ZX	
467 CULG	07	0443	0445	0449	N11	W02	.087	16336	7.0	6	-N		C	0445	60	.6	ZX	
GRP78468	07	0450E	0502	0530	N16	E43	.684	16344	10.4	40	1N						D	
CULG	07	0450U	0502	0530U	N14	E41	.656	16344	10.3	40D	1N		C	0502	160	2.1		
TACH	07	0509E		0525	N16	E43	.684	16344	10.4	16D	-N		C	0509	44	.6	BD	
PURP	07	0530E	0530	0533	N17	E44	.698	16344	10.5	30	-F		P					
GRP78469	07	0510+3	0515+0	0522	S20	W64	.929	16346	2.4	12	-N				80		DJ	
CULG	07	0510	0515	0523	S19	W65	.933	16346	2.3	13	-N		C	0515	70	1.6	T	
TACH	07	0513	0515	0520	S21	W63	.925	16346	2.5	7	1N		C	0515	97		DJ	
GRP78470	07	0512+7	0523+1	0546	N11	E02	.087	16336	7.4	34	1N				250	2.5	HS	
CULG	07	0512	0523	0612	N11	E02	.087	16336	7.4	60	1N		C	0523	300	3.0	FSH	
TACH	07	0519	0524	0546	N11	E02	.087	16336	7.4	27	1F		C	0524	212	2.2	E	
PURP	07	0530E	0530	0533	N12	W08	.168	16336	6.6	30	1N		P					
GRP78471	07	0517	0523	0537	N24	E28	.532	16341	9.3	20	-N							
CULG	07	0517	0523	0540	N25	E29	.550	16341	9.4	23	-N		C	0523	60	.7		
PURP	07	0530E	0530	0533	N24	E27	.520	16341	9.3	30	-F		P					
472 CULG	07	0531	0545	0602	S19	W65	.933	16346	2.4	31	?N		C	0545	120	2.7	KT ZX	
		IMP.1	NO	PURP														
473 CULG	07	0610	0615	0627	S32	W46	.850	16334	3.8	17	-N		C	0615	80	2.4	ZX	
474 CULG	07	0622	0625	0635	N25	E30	.562	16341	9.5	13	-N		C	0625	120	1.4	ZX	
GRP78475	07	0622+7	0629+1	0638	S20	W60	.903	16346	2.8	16	1F							
CULG	07	0622	0629	0640	S19	W65	.933	16346	2.4	18	1N	*	C	0629	100	2.3	T	
PURP	07	0629	0630	0635	S22	W56	.881	16346	3.1	6	1F	*	C					
476 CULG	07	0701	0710	0727U	N24	E26	.508	16341	9.2	26D	-N		C	0710	60	.7	KT ZX	
477 TELV	07	0715	0716	0750	N13	W23	.400	16336	5.6	35	-N	3			24	.3	ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	HEAS AREA Milli of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
478 CULG	07	0721	0724	07350	N17	E44	.698	16344	10.6	140	-F	P	0724	40	.5	ZX	
479 CULG	07	0733	07350	07350	N08	E59	.853	16350	11.7	20	-N	P	0735	60	1.2	T ZX	
480 CATA	07	0755	0810	08150	N25	E27	.527	16341	9.4	200	1B	2 P	0810	168	2.0	ZX	
GRP78481	07	0940	0941	11290	N15	W03	.158	16336	7.2	109	-N					OW	
TELV	07	0940	0941	11290	N14	W02	.136	16336	7.3	1090	-N	3		6		H	
TELV	07	0941	0942	11290	N17	W06	.210	16336	7.0	1080	-N	3		12	.1	W	
KHAR	07	0953E	0953	10120	N15	W03	.158	16336	7.2	190	-F	P				D	
GRP78482	07	0952	0952	1012	N11	W25	.425	16336	5.5	20	-B					D	
TELV	07	0952	0952	1012	N11	W25	.425	16336	5.5	20	-B	3		54	.6		
KHAR	07	0953E	0953	10050	N12	W25	.427	16336	5.5	120	-F	P				D	
GRP78483	07	1023	1026	11290	N11	W08	.159	16336	6.8	66	-F					W	
			1116+4														
TELV	07	1023	1026	11290	N12	W10	.197	16336	6.7	660	-N	3		20	.2	W	
KHAR	07	1029E	10550	10550	N12	W09	.182	16336	6.8	260	-F	P					
TELV	07	1116	1116	11290	N10	W07	.136	16336	6.9	130	-N	*		20	.2		
KHAR	07	1116E	1120	11230	N11	W06	.130	16336	7.0	70	-F	* P				D	
484 KHAR	07	1045E	1045	10490	N13	E60	.861	16350	11.9	40	-F	P				D ZX	
GRP78485	07	1148E	1150	1258	S20	W62	.916	16346	2.8	70	-F					D	
			1242														
RAMY	07	1148E	1242	1258	S21	W60	.906	16346	3.0	700	-N	3 C		35			
KHAR	07	1149E	1150	12030	S20	W64	.929	16346	2.7	140	-F	P				D	
GRP78486	07	1149+9	1219+0	12330	N10	W07	.136	16336	7.0	44	-N			180	1.8	E	
RAMY	07	1149	1219	1305	N10	W06	.121	16336	7.0	76	-N	3 C		117			
LVOV	07	1217	1219	1233	N10	W08	.151	16336	6.9	16	1F	C	1219	250	2.6	E	
GRP78487	07	1208+3	1213+2	1222	N16	E35	.582	16344	10.1	14	-F			35	.4	D	
RAMY	07	1208	1215	1222	N16	E35	.582	16344	10.1	14	-N	3 C		22			
LVOV	07	1211	1213	1222	N17	E35	.585	16344	10.1	11	-F	C	1213	50	.7	D	
488 RAMY	07	1227	1228	1251	N11	E56	.824	16350	11.7	24	-F	3 C		20		ZX	
GRP78489	07	1310	1321	1337	N11	E56	.824	16350	11.7	27	-F					E	
RAMY	07	1310	1321	1337	N11	E56	.824	16350	11.7	27	-F	3 C		32			
KHAR	07	1315E		13350	N12	E57	.833	16350	11.8	200	-F	P				E	
490 RAMY	07	1319	1319	1334	N10	W08	.151	16336	7.0	15	-F	3 C		25		ZX	
491 KHAR	07	1326E	1329	13350	N27	E25	.522	16341	9.4	90	-F	P				ZX	
492 RAMY	07	1339	1339	1345	N11	W15	.268	16336	6.4	6	-F	3 C		30		ZX	
493 RAMY	07	1354	1354	1403	N11	W09	.174	16336	6.9	9	-F	3 C		28		ZX	
GRP78494	07	1405+0	1408+0	1437	S20	W62	.916	16346	2.9	32	1B						
			1434														
LVOV	07	1405	1408	1435	S20	W65	.934	16346	2.7	30	2N	C	1408	400		D	
HOLL	07	1405	1408	14160	S19	W59	.894	16346	3.2	110	1B	2 C		117		DE	
RAMY	07	1405	1408	1424	S21	W63	.925	16346	2.9	19	1B	3 C		187		DE	
RAMY	07	1433	1434	1439	S21	W61	.912	16346	3.0	6	-F	3 C		16			
GRP78495	07	1405+2	1413+2	14350	N16	E33	.555	16344	10.1	30	1B			330	4.0	FKU	
RAMY	07	1405	1414	1631	N15	E33	.552	16344	10.1	146	1B	3 C		308		U F	
HOLL	07	1406E	1413	14160	N16	E35	.582	16344	10.2	100	1B	2 C		225		U F	
LVOV	07	1407	1415	1435	N17	E33	.558	16344	10.1	28	2N	C	1415	450	5.5	E	
LVOV	07	1411	1413	1435	N16	E27	.471	16344	9.6	24	-F	C	1413	50	.6	OK	
GRP78496	07	1414+0	1417+0	1442	N26	E23	.491	16341	9.3	28	-N						
RAMY	07	1414	1417	1449	N25	E21	.460	16341	9.2	35	-B	3 C		50		FDE	
LVOV	07	1414	1417	1435	N27	E25	.522	16341	9.5	21	1F	C	1417	250	3.0	E	
497 RAMY	07	1443	1446	1509	N10	W08	.151	16336	7.0	26	-N	3 C		34		ZX	
498 BIGB	07	1453	1454	1459	N26	E25	.513	16341	9.5	6	-N	1 C	1454	60	.7	ZX	
GRP78499	07	1525+4	1525+5	1544	N13	E49	.751	16350	11.3	19	-N						
RAMY	07	1525	1525	1542	N11	E53	.794	16350	11.6	17	-F	3 C		25			
BIGB	07	1529	1530	1546	N15	E46	.718	16350	11.1	17	-B	1 C	1530	80	1.2		
500 RAMY	07	1529	1529	1600	N13	W47	.728	16337	4.1	31	-N	3 C		57		ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.		
					LAT.	HER. DIST												
GRP78501	07	1614+1	1615+4	1629	N26	E25	.513	16341	9.6	15	-N							
BIGB	07	1614	1615	1630	N26	E25	.513	16341	9.6	16	-N	1	C	1615	80	.9		
HOLL	07	1615	1619	1628	N27	E25	.522	16341	9.6	13	-N	3	C		89	.9		DE
GRP78502	07	1656+0	1656+2	1702	S20	W63	.923	16346	3.0	6	-N				40			
BIGB	07	1656	1657	1702	S19	W67	.944	16346	2.7	6	-N	1	C	1657	60			
RAMY	07	1656	1656	1702	S20	W63	.923	16346	3.0	6	-N	3	C		28			
HOLL	07	1656	1658	1702	S21	W63	.925	16346	3.0	6	-N	3	C		25			
GRP78503	07	1715+0	1715+0	1732	N13	W18	.324	16336	6.4	17	-N				50	.5		
RAMY	07	1715	1715	1735	N13	W18	.324	16336	6.4	20	-N	3	C		58			DE
HOLL	07	1715	1715	1729	N14	W18	.330	16336	6.4	14	-N	3	C		54			
504 HOLL	07	1731	1731	1740	N23	E14	.365	16341	8.8	9	-N	3	C		49			ZX
505 HOLL	07	1843	1843	1852	N27	E17	.441	16341	9.1	9	-F	3	C		20			ZX
GRP78506	07	2058+0	2059	2111	S21	W65	.936	16346	3.0	13	-F							
			2108															
RAMY	07	2058	2108	2111	S23	W65	.939	16346	3.0	13	-F	3	C		14			DE
HOLL	07	2058	2059	2111	S20	W66	.940	16346	2.9	13	-N	3	C		11			
507 CULG	07	2109	2122	2140	S35	E40	.829	16348	10.9	31	-F		C	2122	60	1.1		ZX
GRP78508	07	2112+9	2122	2146	N26	E21	.470	16341	9.5	34	-N							K
			2136															
CULG	07	2112	2122	2148	N26	E21	.470	16341	9.5	36	-N		C	2122	60	.7		K
BIGB	07	2134	2136	2143	N26	E21	.470	16341	9.5	9	-N	2	C	2136	20	.2		
GRP78509	07	2116+2	2121+1	2136	S19	W65	.933	16346	3.0	20	-N				50			
HOLL	07	2116	2122	2136	S19	W65	.933	16346	3.0	20	-B	3	C		38			
CULG	07	2116	2121	2130	S19	W71	.963	16346	2.6	14	-N		C	2121	60			
RAMY	07	2118	2122	0000D	S20	W65	.934	16346	3.0	1620	-N	3	C		44			DE
510 CULG	07	2136	2145	2159	N08	E52	.783	16350	11.8	23	-N		C	2145	40	.6	F	ZX
511 BIGB	07	2230	2232	2237	N29	E90	.999	16357	14.7	7	-N	2	C	2232	30			ZX
GRP78512	07	2250+1	2252+3	2325	S19	W70	.959	16346	2.7	35	1B				90			
CULG	07	2250	2255	2325	S20	W74	.976	16346	2.4	35	1B	*	C	2255	220			
BIGB	07	2251	2254	2311	S18	W70	.957	16346	2.7	20	-B	*	C	2254	70			
HOLL	07	2251	2252	2328	S19	W66	.938	16346	3.0	37	-B	*	C		92			
GRP78513	08	0017+9	0027+1	0102	N22	E07	.293	16341	8.5	45	1N							JS
CULG	08	0017	0028	0124	N22	E07	.293	16341	8.5	67	-N		C	0028	160	1.6		SF
PURP	08	0025	0027	0102	N23	E07	.308	16341	8.5	37	1N	*	C					
VORO	08	0026	0027	0055	N22	E10	.315	16341	8.8	29	1F		C	0027	197	2.1		EJ
514 PURP	08	0025		0132	N10	E50	.761	16350	11.8	67	-N		C					ZX
GRP78515	08	0033+3	0038+1	0048	S19	W72	.967	16346	2.6	15	-N				80			DH
PURP	08	0033	0039	0045	S22	W74	.977	16346	2.5	12	1N		C					
CULG	08	0036	0038	0048	S19	W77	.985	16346	2.3	12	-B		C	0038	60			
BIGB	08	0036	0039	0044D	S18	W70	.957	16346	2.8	8D	-B	3	P	0039	60			
VORO	08	0036	0038	0048	S20	W70	.960	16346	2.8	12	1F		C	0038	134			DH
GRP78516	08	0139+3	0147+0	0207	S19	W73	.971	16346	2.6	28	1F				100			DH
CULG	08	0139	0147	0209	S19	W77	.985	16346	2.3	30	1F		C	0147	80			
VORO	08	0142	0147	0204	S20	W70	.960	16346	2.8	22	1F		C	0147	116			DH
517 CULG	08	0153	0157	0206	N28	E18	.463	16341	9.4	13	-F		C	0157	20	.2		ZX
518 VORO	08	0238	0239	0245	N12	E19	.335	16344	9.5	7	?F		C	0239	197	2.2		EH ZX
		IMP.1 NO :	MITK	PURP														
519 CULG	08	0343	0349	0415	S20	W75	.979	16346	2.5	32	?N		C	0349	100			K ZX
		IMP.1 NO :	MITK	PURP														
GRP78520	08	0713+3	0716+2	0722	N28	E15	.437	16341	9.4	9	-N				110	1.2		J
ABST	08	0713	0716	0721	N29	E16	.458	16341	9.5	8	-N		C	0716	114	1.3		FJ
TACH	08	0716	0718	0722	N28	E15	.437	16341	9.4	6	-B		C	0718	106	1.2		E
KHAR	08	0720E	0720	0724D	N28	E15	.437	16341	9.4	4D	-F		P					BD
521 KHAR	08	0720E		0800D	N10	E46	.715	16350	11.8	40D	-F		P					D ZX
522 ABST	08	0752E	0801	0829	N16	W23	.415	16336	6.6	370	-F		P	0801	87	1.0		E ZX

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mil. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP78523	08	0815+7	0826	0841	S22	W75	.980	16346	2.7	26	-F					E	
BUCA	08	0815		0825	S23	W70	.963	16346	3.1	10	-F	C	0819	32		D	
MONT	08	0822	0826	0841	S22	W76	.983	16346	2.6	19	-F	C	0826	50		E	
KHAR	08	0825E		09150	S18	W75	.978	16346	2.7	500	1F	P	0830			E	
BUCA	08	0826		0829	S25	W69	.961	16346	3.2	3	-F	C	0826	32		D	
524 KHAR	08	0850	0909	0924	N20	E90	.999	16357	15.1	34	-N	P	0909			T ZX	
525 KHAR	08	0932	0937	10350	N20	E90	.999	16357	15.1	630	-F	P	0935			T ZX	
526 KHAR	08	1018E		1040	N08	E46	.715	16350	11.9	220	-F	V	1018			E ZX	
527 KHAR	08	1030		1040	N16	E27	.472	16344	10.5	10	-F	V	1032			D ZX	
528 KANZ	08	1055	1058	1110	N16	W28	.486	16336	6.4	15	-N	1				ZX	
GRP78529	08	1100E	1116	1212	N28	E88	.997	16357	15.1	72	1N					H	
			1209														
KHAR	08	1100E	1116	1217	N20	E88	.998	16357	15.1	770	1N	V	1119			HT	
KANZ	08	1122E	1122	1134	N28	E90	.999	16357	15.2	120	-N	2					
RAMY	08	1207	1209	1212	N29	E85	.992	16357	14.9	5	-F	3 C					
GRP78530	08	1153	1155+2	1225	S20	W80	.992	16346	2.5	32	1N			110		OK	
			1209														
LVOV	08	1153	1157	1230	S21	W80	.993	16346	2.5	37	1N	C	1157	100		OK	
KHAR	08	1155E	1155	12250	S18	W80	.992	16346	2.5	300	-N	P	1206	120			
RAMY	08	1200E	1209	1217	S20	W69	.955	16346	3.3	170	-F	3 C					
531 RAMY	08	1201	1206	1208	S30	W56	.905	16334	4.3	7	-F	3 C		14		ZX	
532 LVOV	08	1403	1404	1408	S21	W84	.998	16346	2.3	5	?N	C	1404	100		D ZX	
		IMP.1	NO :	RAMY	BERN												
GRP78533	08	1417+4	1422+3	1438	S19	W75	.978	16346	3.0	21	-N						
KANZ	08	1417	1425	14330	S19	W77	.985	16346	2.8	160	-B	2					
HOLL	08	1421	1422	1438	S20	W73	.972	16346	3.1	17	-N	3 C					
GRP78534	08	1509+0	1509+1	1526	N23	E85	.992	16357	15.0	17	-F						
HOLL	08	1509	1509	1538	N22	E85	.993	16357	15.0	29	-F	3 C					
RAMY	08	1509	1510	1514	N24	E85	.992	16357	15.0	5	-F	3 C					
GRP78535	08	1535+0	1536+1	1543	S21	W71	.965	16346	3.3	8	-N						
HOLL	08	1535	1536	1545	S21	W75	.980	16346	3.0	10	-N	3 C					
RAMY	08	1535	1537	1540	S21	W68	.951	16346	3.5	5	-N	3 C		11			
GRP78536	08	1637+4	1645+3	1704	S21	W74	.976	16346	3.1	27	-N					A	
HOLL	08	1637	1648	1704	S21	W74	.976	16346	3.1	27	1N	3 C					
RAMY	08	1638	1645	1705	S21	W71	.965	16346	3.4	27	-N	3 C					
BIGB	08	1641	1647	1704	S19	W85	.999	16346	2.3	23	-B	3 C	1647	70		A	
537 BIGB	08	1657	1700	1720	N27	E90	.999	16357	15.5	23	-N	* C	1700	20		ZX	
GRP78538	08	1705+0	1706+2	1738	N14	W26	.449	16336	6.8	33	-N			130	1.5	F	
RAMY	08	1705	1706	1738	N14	W25	.434	16336	6.8	33	-N	3 C		100		F	
BIGB	08	1705	1708	1730	N14	W26	.449	16336	6.8	25	-N	3 C	1708	100	1.1		
HOLL	08	1705	1708	1738	N13	W26	.446	16336	6.8	33	-N	3 C		184			
GRP78539	08	1719+2	1723+0	1730	N20	E85	.993	16357	15.1	11	-F					A	
BIGB	08	1719	1723	1730	N19	E80	.980	16357	14.7	11	-N	* C	1723	50		A	
RAMY	08	1721	1723	1730	N21	E90	.999	16357	15.5	9	-F	* C					
GRP78540	08	1852+1	1857+0	1904	S18	W76	.981	16346	3.1	12	-N					A	
BIGB	08	1852	1857	1903	S18	W85	.999	16346	2.4	11	-B	3 C	1857	30		A	
RAMY	08	1853	1857	19040	S19	W68	.949	16346	3.7	110	-N	3 C					
541 HOLL	08	1933	1937	2000	S23	W77	.987	16346	3.0	27	?B	3 C				ZX	
		IMP.1	NO :	BIGB													
542 BIGB	08	1935	1937	1952	S19	E85	.999	16358	15.2	17	-B	3 C	1937	70		A ZX	
543 BIGB	08	1954	2001	2006	N25	E90	.999	16357	15.6	12	-B	3 C	2001	60		ZX	
544 BIGB	08	2048	2049	2052	S18	E87	1.000	16358	15.4	4	-B	3 C	2049	20		A ZX	
545 CULG	08	2048	2049	2058	S20	W90	1.001	16346	2.1	10	-N	C	2049	50		ZX	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA MIN of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST.											
GRP78546	08	2249>9	2313+1	2334	S19	W85	.999	16346	2.6	45	1F		80		H		
CULG	08	2249	2313	2344	S20	W90	1.001	16346	2.2	55	-N	C	2313	60	F		
VORO	08	2310	2314	2323	S18	W80	.992	16346	3.0	13	1F	C	2314	108	DH		
547 VORO	08	2258	2302	2316	N26	E03	.340	16341	9.2	18	7F	C	2302	224	2.4	EJ ZX	
		IMP.1	NO	BIGB													
548 BIGB	08	2310	2314	2319	S17	E90	1.001	16358	15.7	9	-N	3	C	2314	20	ZX	
549 CULG	09	0213	0217	0224	S17	W80	.991	16346	3.1	11	-F	C	0217	60	T	ZX	
550 VORO	09	0227	0228	0230	N15	E12	.253	16344	10.0	3	-N	C	0228	90	1.0	EJ ZX	
551 CULG	09	0417	0420	0426	S20	W90	1.001	16346	2.4	9	-F	C	0420	60	T	ZX	
552 CULG	09	0512	0517	0522	N21	E80	.980	16357	15.2	10	-F	C	0517	60	ZX		
GRP78553	09	0601+7	0603	0630	N16	E09	.227	16344	9.9	29	-N				DJ		
			0611														
PURP	09	0601	0603	0635	N16	E09	.227	16344	9.9	34	1F	C					
ABST	09	0608	0611	0625	N16	E10	.238	16344	10.0	17	-N	C	0611	87	.9	DJ	
554 CULG	09	0621	0622	0626	S20	W90	1.001	16346	2.5	5	-F	C	0622	30	T	ZX	
GRP78555	09	0654+5	0656+5	0756	N15	E10	.227	16344	10.0	62	1N				EIJJOZ		
			0720														
ABST	09	0654	0656	0730	N15	E14	.280	16344	10.3	36	-N	C	0656	131	1.4	DJ	
TELV	09	0655	0656	07180	N16	E13	.276	16344	10.3	230	-N	3	C	122	1.3		
CULG	09	0656U	0720	0736E	N15	E08	.203	16344	9.9	400	1N	P	0720	360	3.6	ZIF	
TELV	09	0656	0657	1014	N15	E03	.160	16344	9.5	198	-8	3	C	20	.2		
TACH	09	0658E		0720	N16	E14	.289	16344	10.3	220	2F	V	0658	566	6.1	BCEJZ	
PURP	09	0659	0701	0738	N16	E08	.216	16344	9.9	39	1N	C					
BUCA	09	0703		0754	N16	E09	.227	16344	10.0	51	1F	C	0708	322	3.4		
HTPR	09	0733E		08170	N15	E10	.227	16344	10.1	440	-F	C	0808	60	.6	EI	
KHAR	09	0745E		08400	N16	E09	.227	16344	10.0	550	1F	P	0755			BEO	
GRP78556	09	0745+0	0752	0812	N09	E90	1.000	16363	16.1	27	-F				HO		
KHAR	09	0745E		08100	N09	E90	1.000	16363	16.1	250	-F	*	P	0745		HO	
HTPR	09	0745	0752	0812	N10	E90	1.000	16363	16.1	27	-N	*	C	0752	50		
557 KHAR	09	0745E		07550	S17	W90	1.001	16346	2.6	100	-F	P			HO	ZX	
558 KHAR	09	0822	0825	0840	N11	E32	.529	16350	11.7	18	-F	P	0825		DH	ZX	
559 KHAR	09	0846E		08530	N11	E32	.529	16350	11.8	70	-F	C			D	ZX	
GRP78560	09	0848+1	0850	0905	N25	E83	.988	16357	15.6	17	-F				H		
HTPR	09	0848		08520	N25	E80	.979	16357	15.4	40	-N	C	0850	60			
KHAR	09	0849	0850	0905	N26	E86	.994	16357	15.8	16	-F	P	0850		H		
561 KHAR	09	0916E	0920	09260	N11	E32	.529	16350	11.8	100	-F	C			ZX		
GRP78562	09	0933+5	0934+6	0950	N15	E14	.280	16344	10.4	17	-F			70	.7	DJO	
KHAR	09	0933	0934	09500	N17	E14	.299	16344	10.4	170	-F	*	P	0938	50	.5	DO
ABST	09	0938	0940	0950	N14	E14	.272	16344	10.5	12	-N	*	C	0940	87	.9	OJ
563 KHAR	09	1003E	1004	10140	S10	W64	.912	16355	4.6	110	-F	P	1012		DT	ZX	
564 KHAR	09	1018E		10350	N11	E32	.529	16350	11.8	170	-F	P	1025	30	.4	DHO	ZX
565 KHAR	09	1021E		10350	S10	W63	.905	16355	4.7	140	-F	P	1021		HTO	ZX	
GRP78566	09	1025+4	1033+4	1101	N16	E10	.238	16344	10.2	36	-F			80	.8	E	
HTPR	09	1025	1033	1100	N15	E10	.227	16344	10.2	35	-F	C	1033	20	.2	E	
KANZ	09	1028	1036	1056	N16	E11	.250	16344	10.3	28	-N	2	C			E	
MONT	09	1028	1037	11020	N17	E11	.262	16344	10.3	340	-N	C	1037	80		E	
KHAR	09	1029	1035	11070	N16	E10	.238	16344	10.2	380	-F	P	1035	80	.8	E	
GRP78567	09	1127+0	1127+0	1140	N22	W10	.316	16341	8.7	13	-F				D		
HTPR	09	1127	1127	1140	N22	W09	.308	16341	8.8	13	-F	C	1127	20	.2	D	
KHAR	09	1127	1127	11370	N23	W11	.339	16341	8.7	100	-F	C					
568 KHAR	09	1135E		11500	S17	W90	1.001	16346	2.7	150	-F	V			H	ZX	
GRP78569	09	1140>9	1245	1252	N27	E81	.982	16357	15.6	72	-F				H		
KHAR	09	1140E		12500	N30	E82	.985	16357	15.6	700	-N	P	1155		H		
HTPR	09	1235	1245	1252	N25	E80	.979	16357	15.5	17	-F	C	1245	20			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA MIN. of Disk	CORR AREA Sq. Deg.	
					LAT.	NER. DIST.											
GRP78570	09	1141+0	1142+2	1153	S11	W60	.884	16355	5.0	12	-F			20	.4	H	
HTPR	09	1141	1142	1150	S11	W60	.884	16355	5.0	9	-F	C	1142	10	.2		
RAMY	09	1141	1144	1155	S12	W57	.862	16355	5.2	14	-N	3	C	27			
KHAR	09	1142E		11500	S11	W64	.914	16355	4.7	80	-F	P	1150			HT	
571 KHAR	09	1214	1214	12200	S11	W64	.914	16355	4.7	60	-F	C				DT ZX	
572 KHAR	09	1218E		12240	N10	E90	1.000	16363	16.3	60	-F	V				H ZX	
573 KHAR	09	1225E		12300	S17	W90	1.001	16346	2.8	50	-F	V				H ZX	
574 HTPR	09	1346	1347	1356	N26	W01	.338	16341	9.5	10	-F	C	1347	20	.2	E ZX	
GRP78575	09	1407+1	1408+1	1416	N29	E78	.972	16357	15.4	9	-N						
HTPR	09	1407	1408	1417	N27	E80	.979	16357	15.6	10	-N	C	1408	40			
RAMY	09	1408	1409	1414	N32	E76	.965	16357	15.3	6	-N	3	C				
576 HOLL	09	1424	1424	1440	S11	W67	.933	16355	4.6	16	-N	2	C		40		ZX
GRP78577	09	1429+2	1434+1	1458	S13	W10	.370	16343	8.9	29	-F			25	.3		
HTPR	09	1429	1434	1500	S14	W11	.391	16343	8.8	31	-F	C	1434	20	.2	E	
RAMY	09	1431	1435	1455	S13	W10	.370	16343	8.9	24	-N	3	C	30		F	
578 HOLL	09	1453	1455	1458	N10	W47	.727	16336	6.1	5	-F	3	C		24		ZX
579 RAMY	09	1453	1455	1505	N18	E00	.203	16344	9.6	12	-F	3	C		40		ZX
580 HOLL	09	1547	1551	1553	S11	W62	.899	16355	5.0	6	-F	3	C		21		ZX
581 BIGB	09	1646	1648	1658	N14	E83	.990	16363	15.9	12	-B	1	C	1648	40		ZX
582 RAMY	09	1646	1649	1705	N11	W78	.975	16337	3.8	19	-F	3	C		49		ZX
583 HOLL	09	1648	1656	1711	S11	W63	.907	16355	5.0	23	-F	3	C		18		ZX
584 RAMY	09	1706	1709	1715	N11	E27	.455	16350	11.7	9	-F	3	C		25		ZX
585 BIGB	09	1828	1831	1835	S11	W65	.920	16355	4.9	7	-N	3	C	1831	60		ZX
586 HOLL	09	1929	1931	1939	N17	E04	.198	16344	10.1	10	-N	3	C		34		ZX
587 BIGB	09	2007	2010	2020	N13	W41	.655	16336	6.8	13	-N	2	C	2010	20	.3	ZX
588 CULG	09	2058	2108	2138	S15	W20	.486	16343	8.4	40	-F	C	2108	50	.6	ZX	
589 BIGB	09	2120	2121	2132	N27	E75	.960	16357	15.5	12	-N	2	C	2121	20		ZX
GRP78590	09	2120+2	2124+2	2206	N16	E03	.176	16344	10.1	46	-B					F	
CULG	09	2120	2126	22150	N16	E03	.176	16344	10.1	550	18	C	2126	340	3.4	F	
HOLL	09	2122	2124	2204	N17	E03	.193	16344	10.1	42	-N	3	C		170		
BIGB	09	2122	2126	2206	N15	E05	.174	16344	10.3	44	-B	2	C	2126	50	.5	
GRP78591	09	2147+1	2151+0	2157	N28	E78	.972	16357	15.8	10	-N			40			
CULG	09	2147	2151	2156	N29	E79	.976	16357	15.8	9	-N	C	2151	50			
BIGB	09	2148	2151	2157	N28	E77	.969	16357	15.7	9	-N	3	C	2151	30		
592 CULG	09	2203	2211	22150	N16	W29	.500	16336	7.7	120	-F	P	2211	120	1.4	ZX	
593 CULG	09	2223U	2225	2234	N29	E79	.976	16357	15.9	110	-N	C	2225	50		ZX	
594 CULG	09	2312	2316	2321	S28	W90	1.001	16346	3.2	9	-F	C	2316	20		ZX	
595 BIGB	09	2317	2318	2324	S10	W70	.949	16355	4.7	7	-N	3	C	2318	40		ZX
596 CULG	09	2317	2323	2331	N13	W08	.180	16344	9.4	14	-F	C	2323	80	.8	H ZX	
GRP78597	09	2335+9	2345+0	2359	N08	E89	.999	16363	16.7	24	-F			60		F	
CULG	09	2335	2345	0006	N04	E88	.999	16363	16.6	31	1F	C	2345	80		F	
BIGB	09	2344	2345	2351	N13	E90	1.000	16363	16.7	7	-F	3	C	2345	40		
598 YUNN	10	0050	0110	0115	S05	W21	.403	16361	8.5	25	-N	C		80	.9	ZX	
599 YUNN	10	0108	0110	0122	S10	W68	.938	16355	4.9	14	?F	C		80		ZX	
		IMP.1 NO	4 VORO	PURP													
600 CULG	10	0606	0612U	0631U	N04	E13	.227	16350	11.2	250	-F	P	0612	60	.6	ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sec Deg.	
					LAT.	MER. DIST											
601	CULG	10 0646	0649	0654	N18	W18	.361	16341	8.9	8	-F	C	0649	30	.3	ZX	
602	PURP	10 0655	0700	0724	N05	E13	.225	16350	11.3	29	?F	C				G ZX	
		IMP.1 NO	TACH														
603	PURP	10 0748E	0748	0752	N29	E74	.956	16357	15.9	40	?N	C				ZX	
		IMP.1 NO	TACH	BERN													
604	KHAR	10 0844E	0846	09100	S11	W90	1.000	16355	3.6	260	-N	P	0846			HOT ZX	
605	TELV	10 0845	0846	0914	N19	E01	.222	16344	10.4	29	-N	1		9	.1	ZX	
606	KHAR	10 0901E		09500	N12	E10	.320	16350	11.7	490	-F	P	0901			E ZX	
GRP78607	10 1007+0	1014	1038	N26	E67	.918	16357	15.4	31	-N						E	
	WEND	10 1007	1024	N28	E68	.925	16357	15.5	17	-F	V		70				
	MONT	10 1007	1034	N25	E66	.911	16357	15.4	38	-F	C	1034	50			E	
	KHAR	10 1008E	1014	11000	N26	E68	.924	16357	15.5	520	1N	P	1012	220		E	
	CATA	10 1015E	1025	10300	N26	E63	.891	16357	15.2	150	1N	2	P	1025	112	2.5	
608	KHAR	10 1010E		10200	S11	W90	1.000	16355	3.7	100	-F	P	1016			HT ZX	
609	KHAR	10 1020E		10280	N18	W16	.335	16341	9.2	80	-F	P	1020			O ZX	
610	KHAR	10 1042E		11000	N16	W26	.458	16341	8.5	180	-F	P	1042			H ZX	
GRP78611	10 1043	1047	1121	N15	W07	.193	16344	9.9	38	-B						H	
		1054															
	TELV	10 1043	1047	1118	N16	W02	.173	16344	10.3	35	-N	1		32	.3		
	TELV	10 1044	1054	1121	N15	W12	.254	16344	9.5	37	-B	1		2			
	KHAR	10 1053E		11000	N16	W04	.183	16344	10.2	70	-F	V	1053			H	
	KHAR	10 1113E		11180	N12	W14	.258	16344	9.4	50	-F	P	1115				
612	KHAR	10 1123E	1123	11260	N11	E16	.284	16350	11.7	30	-F	C				D ZX	
GRP78613	10 1151+3	1154+3	1208	N27	W20	.472	16341	9.0	17	-N			50	.6		H	
	KHAR	10 1151	1154	1206	N27	W22	.492	16341	8.8	15	-N	P	1155			E	
	TELV	10 1152	1154	1212	N26	W20	.461	16341	9.0	20	-N	1		49	.5		
	RAMY	10 1154	1154	1208	N27	W20	.472	16341	9.0	14	-N	3	C	26		F	
	CATA	10 1155E	1155	11550	N27	W20	.472	16341	9.0		-N	2	P	1155	56	.6	
	KHAR	10 1155E	1157	12040	N17	W20	.380	16341	9.0	90	-F	V	1157			H	
GRP78614	10 1503+1	1504+0	1516	N15	W06	.183	16344	10.2	13	-F			90	.9		F	
	HOLL	10 1503	1504	1514	N15	W06	.183	16344	10.2	11	-F	3	C	72			
	RAMY	10 1504	1504	1517	N15	W07	.193	16344	10.1	13	-N	3	C	120		F	
615	RAMY	10 1531	1531	1543	S15	W26	.550	16343	8.7	12	-F	3	C	22		ZX	
GRP78616	10 1540+0	1540+5	1601	N29	E64	.901	16357	15.5	21	-N			40				
	HOLL	10 1540	1545	1604	N29	E57	.850	16357	14.9	24	-F	3	C	57			
	BIGB	10 1540	1542	1556	N27	E68	.925	16357	15.8	16	-N	3	C	1542	40		
	RAMY	10 1540	1540	1601	N30	E64	.902	16357	15.5	21	-N	3	C	25			
617	RAMY	10 1552	1553	1601	S14	W27	.553	16343	8.6	9	-F	3	C	30		ZX	
618	HOLL	10 1703	1704	1714	N11	E13	.237	16350	11.7	11	-F	3	C	25		ZX	
619	HOLL	10 1722	1724	1732	N19	W04	.231	16344	10.4	10	-N	3	C	93		ZX	
620	HOLL	10 1737	1745	1748	N30	E65	.908	16357	15.6	11	-F	3	C	30		ZX	
621	BIGB	10 1905	1906	1919	N10	E13	.232	16350	11.8	14	-F	3	C	1906	30	.3	ZX
622	HOLL	10 1913	1944U	2011	N32	E63	.898	16357	15.5	58	-N	3	C	43		ZX	
623	HOLL	10 2035	2045	2108	N16	W08	.217	16344	10.3	33	-F	3	C	36		ZX	
624	HOLL	10 2120	2120	2133	S16	W28	.581	16343	8.8	13	-F	3	C	20		ZX	
625	HOLL	10 2259	2308	2359	N16	W13	.277	16344	10.0	60	-N	3	C	86		F ZX	
626	HOLL	10 2323	2325	2354	S12	W33	.609	16343	8.5	31	-F	3	C	25		ZX	
627	HOLL	10 2333	2334	2343	N11	E10	.190	16350	11.7	10	-N	3	C	36		ZX	
628	HOLL	10 2348	2348	2355	N10	E10	.184	16350	11.7	7	-N	3	C	52		ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA MHI of Disk	CORR AREA Sq Deg		
					LAT.	MER. DIST.												
629 HOLL	11	0001	0001	0011	N11	W56	.824	16336	6.8	10	-N	2	C		22			ZX
GRP78630	11	0008+0	0010+5	00200	N15	W13	.268	16344	10.0	12	-F				30		.3	
HOLL	11	0008	0015	00160	N15	W14	.281	16344	10.0	80	-F	2	C		31			
HANI	11	0008E	0010	00200	N15	W13	.268	16344	10.0	120	-F	3	C		25			
631 HANI	11	0105E	0106	01150	N26	W26	.526	16341	9.1	100	-F	3	C		15			ZX
632 PURP	11	0433	0445	0500	N25	E53	.809	16357	15.2	27	1N		P					ZX
633 PURP	11	0547	0600	0610	N11	W02	.091	16350	11.1	23	?F		C					ZX
		IMP.1	NO :	MITK														
GRP78634	11	0640>9	0650+3	0731	N12	W01	.103	16350	11.2	51	-N							DJ
			0718															
PURP	11	0640	0650	0725	N10	W03	.084	16350	11.1	45	1B		C					
ATHN	11	0651	0653	0725	N11	E02	.091	16350	11.4	34	-N	1		0653	147	1.4		
WEND	11	0655E		0726	N13	W03	.130	16350	11.1	310	1N		V		250	2.7		B
TELV	11	0701E		0741	N12	W01	.103	16350	11.2	400	-N	3			163	1.6		
ABST	11	0714	0718	0742	N13	E01	.120	16350	11.4	28	-N		C	0718	87	.9		DJ
635 WEND	11	0712		0723	N27	W33	.611	16341	8.8	11	-F		V					D ZX
636 ABST	11	0844	0846	0852	N14	W61	.870	16336	6.8	8	-F		C	0846	87			D ZX
637 KANZ	11	0904	0906	0917	N13	E02	.124	16350	11.5	13	-F	2						ZX
GRP78638	11	0904	0913+5	0943	S14	W36	.656	16343	8.7	39	-N							EL
KANZ	11	0904	0913	0936	S13	W36	.650	16343	8.7	32	-N	2						E
KHAR	11	0915E	0918	09500	S15	W36	.662	16343	8.7	350	1N		P	0918	160	2.2		EL
639 TELV	11	0950	0951	1020	N26	E41	.692	16357	14.5	30	-N	3			24	.3		ZX
640 KHAR	11	1045E		10490	N28	W33	.617	16341	9.0	30	-F		P	1046	30	.4		ZX
GRP78641	11	1143+3	1145+3	1208	N13	W03	.130	16350	11.3	25	-N				80	.8		
TELV	11	1143	1145	11460	N12	W02	.107	16350	11.3	30	-N	3			24	.3		
KANZ	11	1144	1148	1203	N12	W03	.114	16350	11.3	19	-N	2						
LVOV	11	1146	1148	1203	N14	W04	.152	16350	11.2	17	-F		C	1148	80	.9		D
KHAR	11	1146	1148	12170	N13	W03	.130	16350	11.3	310	-N		P	1149	180	1.8		E
RAMY	11	1146	1146	1220	N12	W03	.114	16350	11.3	34	-N	3	C		81			
WEND	11	1146E		1203	N14	W04	.152	16350	11.2	170	-N		V		150	1.6		
GRP78642	11	1152+4	1200+7	1226	N09	E62	.878	16363	16.1	34	-N				90	1.9		ELM
KHAR	11	1152E	1202	12170	N10	E63	.886	16363	16.2	250	-F		P	1202	100			ELM
WEND	11	1155	1207	1226	N09	E64	.894	16363	16.3	31	1N		V		100	2.4		
KANZ	11	1156	1207	1226	N08	E62	.879	16363	16.1	39	-N	2						
CATA	11	1200E	1200	12050	N10	E62	.878	16363	16.2	50	-N	2	P	1200	56	1.2		
643 RAMY	11	1258	1258	1304	S14	W39	.690	16343	8.6	6	-N	3	C		21			ZX
GRP78644	11	1302+0	1310	1356	N15	W16	.309	16344	10.3	54	1N							FL
			1346															
RAMY	11	1302	1310	1402	N15	W15	.295	16344	10.4	60	1N	3	C		268			F
WEND	11	1302		1338	N16	W16	.317	16344	10.3	36	1N		V		450	5.0		FL
HOLL	11	1336	1346	1356	N14	W17	.317	16344	10.3	20	-F	3	C		27			
645 RAMY	11	1356	1357	1401	S32	E39	.801	16360	14.5	5	-F	3	C		16			ZX
GRP78646	11	1419+2	1421+1	1444	N30	E50	.795	16357	15.3	25	-N				30	.5		F
RAMY	11	1419	1422	1455	N29	E48	.773	16357	15.2	36	-N	3	C		44			F
HOLL	11	1421	1421	1432	N31	E52	.815	16357	15.5	11	-N	3	C		16			
647 BIGB	11	1515	1517	1530	N31	W57	.854	16364	7.4	15	-N	1	C	1517	30	.6		G ZX
648 RAMY	11	1547	1550	1625	N12	E01	.103	16350	11.7	38	-F	3	C		101			ZX
	11	1641	1859	NO FLARE PATROL														
649 HOLL	11	1836	1839	1918	N11	W04	.109	16350	11.5	42	-N	3	C		106			F ZX
	11	1902	2054	NO FLARE PATROL														
650 HOLL	11	2000	2003	2018	N11	E60	.861	16363	16.3	18	-N	3	C		29			ZX
651 RAMY	11	2043	2045	2057	N29	E46	.755	16357	15.3	14	-N	3	C		34			ZX



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.		
					LAT.	WER. DIST.												
652 RAMY	11	2050	2100	2117	N21	W41	.674	16341	8.8	27	-N	3	C		59			ZX
653 RAMY	11	2058	2058	2118	N29	E45	.745	16357	15.2	28	-N	3	C		377			ZX
654 HOLL	11	2123	2157	2231	N10	E57	.834	16363	16.2	68	-N	3	C		58			F ZX
655 HOLL	11	2202	2209	2231	N30	E46	.758	16357	15.4	29	-N	3	C		42			ZX
656 HOLL	11	2253	2300	2348	S15	W45	.759	16343	8.6	55	-B	3	C		71			U ZX
GRP78657	11	2259+0	2328	0030	N14	W06	.170	16350	11.5	91	1N				450	4.6		EJU
VORO	11	2259E		0030	N14	W05	.161	16350	11.6	910	2F		P	2328	547	5.6		EJ
HOLL	11	2259	2328	00090	N14	W07	.181	16350	11.4	700	1B	3	C		345			U
658 VORO	11	2314	2314	2317	N28	E46	.751	16357	15.4	3	-N		C	2314	90	1.3		E ZX
659 VORO	12	0236	0237	02440	N15	W10	.229	16350	11.4	80	-F		C	0237	90	.9		E ZX
660 PURP	12	0425	0430	0432	N31	E40	.707	16357	15.2	7	?F		P					ZX
		IMP.1 NO	1	YUNN														
GRP78661	12	0513>9	0523+7	0615	N08	E56	.825	16363	16.4	62	2N				490	8.8		EU
			0606															
YUNN	12	0513	0523	0620	N06	E53	.795	16363	16.2	67	2B		C		629	10.5		
TACH	12	0518	0527	0600	N10	E54	.804	16363	16.3	42	1N		V	0527	115	2.0		U
PURP	12	0523	0530	0610	N07	E61	.871	16363	16.8	47	2N		P		491	9.8		
ABST	12	0605E	0606	0633	N09	E58	.844	16363	16.6	280	1F		P	0606	131	2.4		E
662 TELV	12	0721E	0721	0802	N11	E00	.085	16350	12.3	410	-B	3			20	.2		ZX
663 CATA	12	0730	0740	0745D	N15	E65	.901	16363	17.2	150	-N	2	P	0740	28	.6		ZX
GRP78664	12	0740+7	0744+5	0753	S36	E31	.779	16360	14.6	13	-N				50	.8		DG
ABST	12	0740	0744	0753	S36	E34	.797	16360	14.9	13	-N		C	0744	96	1.6		D
HTPR	12	0743		0745D	S34	E29	.750	16360	14.5	20	-N		C	0744	40	.5		
YUNN	12	0744	0748	0753	S37	E31	.787	16360	14.6	9	-B		C		48	.8		G
WEND	12	0744		0758	S35	E29	.759	16360	14.5	14	-N		V					
CATA	12	0745E	0745	0745D	S35	E33	.783	16360	14.8		-B	2	P	0745	56	.9		
PURP	12	0747	0749	0750	S38	E33	.806	16360	14.8	3	-N		C					
GRP78665	12	0818+3	0819+6	0833	N13	W01	.121	16350	12.3	15	-F							DHV
ABST	12	0818	0819	0836	N13	W01	.121	16350	12.3	18	-F		C	0819	79	.8		DV
TELV	12	0820		08330	N11	E00	.085	16350	12.3	130	-N	3						
PURP	12	0821	0825	0828	N13	W02	.125	16350	12.2	7	-F		C					H
GRP78666	12	0900E		0950D	N16	W36	.597	16344	9.7	50	-F							DHL
KHAR	12	0900E		0950D	N18	W32	.551	16344	10.0	500	-F		P	0902	65	.7		DHL
KHAR	12	0932E		0940D	N14	W40	.644	16344	9.4	80	-F		V	0932				D
GRP78667	12	0932	0933	1000	N12	W03	.115	16350	12.2	28	-N							DO
TELV	12	0932	0933	1000	N11	E00	.085	16350	12.4	28	-N	3			6			
KHAR	12	0946E		0959D	N13	W07	.169	16350	11.9	130	-F		P	0947				DO
GRP78668	12	1029	1029	1105	N12	W01	.104	16350	12.4	36	-F							LOW
			1039															
TELV	12	1029	1029	1105	N12	E02	.108	16350	12.6	36	-F	3			15	.2		H
KHAR	12	1031E	1039	1055D	N13	W04	.138	16350	12.1	240	1F		P	1047	220	2.3		LO
669 KHAR	12	1035E		1046D	N18	W32	.551	16344	10.0	110	-F		V	1038				D ZX
GRP78670	12	1035	1036	1136	N28	E29	.576	16357	14.6	61	-B							ELO
			1105															
TELV	12	1035	1036	1152	N26	E28	.549	16357	14.5	77	-B	*			30	.3		
TELV	12	1035	1036	1149D	N30	E30	.601	16357	14.7	740	-N	*			71	.8		
KHAR	12	1038E		1147D	N26	E30	.572	16357	14.7	690	1N	*	P	1047	400	5.1		ELO
WEND	12	1042E		1109	N28	E30	.586	16357	14.7	270	1N	*	V	1046	180	2.4		
LVOV	12	1104	1105	1124	N32	E29	.608	16357	14.6	20	-F	*	C	1105	70	.9		E
671 KHAR	12	1120E	1122	11400	N11	W06	.134	16350	12.0	200	-F		P	1126	110	1.1		DL ZX
GRP78672	12	1205+5	1206+2	1219	N11	W06	.134	16350	12.1	14	-N				90	.9		
TELV	12	1205	1206	1220	N10	W06	.124	16350	12.1	15	-B	3			81	.8		
RAMY	12	1206	1208	1219	N10	W06	.124	16350	12.1	13	-B	3	C		100			
LVOV	12	1207	1208	1217	N12	W07	.158	16350	12.0	18	-F		C	1208	100	1.0		D
CATA	12	1210E	1210	1210D	N11	W07	.147	16350	12.0		-B	1	P	1210	56	.6		
WEND	12	1210		1219	N11	W04	.110	16350	12.2	9	-F		V					
KHAR	12	1211E		1223D	N11	W06	.134	16350	12.1	120	-F		P	1213	160	1.7		E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST.											
673 KHAR	12	1224E		1228D	N29	E42	.716	16357	15.7	40	-F	P					ZX
674 RAMY	12	1331	1334	1355	N16	H35	.583	16344	9.9	24	-F	3 C		41			ZX
675 RAMY	12	1627	1641	1648	N17	H33	.560	16344	10.2	21	-B	3 C		21			ZX
GRP78676	12	1827+0	1832	1905	S15	H55	.852	16343	8.6	38	-N			60	1.1		E
HUAN	12	1827		1846D	S16	H55	.855	16343	8.6	19D	-N	1 P	1831	35			E
BIGB	12	1827	1832	1905	S14	H56	.858	16343	8.6	38	-N	3 C	1832	80	1.5		
GRP78677	12	1936+9	1938	2026	N32	E55	.842	16366	16.9	50	-N						G
		1951															
BIGB	12	1936	1938	2026	N31	E51	.807	16366	16.6	50	-N	3 C	1938	110	1.8		G
PALE	12	1951	1951	2003D	N34	E59	.875	16366	17.3	12D	-F	3 C		36			OE
GRP78678	12	2035+2	2055	2210	N27	E33	.611	16357	15.3	95	-N						F
		2102															
PALE	12	2035	2055U	2057D	N27	E32	.601	16357	15.3	22D	-F	2 C		91			F
BIGB	12	2037	2102	2210	N27	E34	.622	16357	15.4	93	-B	3 C	2102	130	1.6		
679 BIGB	12	2126	2143	2231	N08	E60	.862	16367	17.4	65	-N	3 C	2143	90	1.8		ZX
GRP78680	12	2300	2328	0027	N15	H35	.580	16344	10.3	87	-N			80	1.0		DJK
BIGB	12	2300	2328	2359D	N15	H35	.176	16344	10.3	59D	-N	3 P	2328	110	1.1		
MANI	12	2330E	2330U	0020D	N15	H31	.526	16344	10.7	50D	-F	2 C		60			
VORO	12	2340E		0027	N15	H35	.580	16344	10.4	47D	-N	P	2347	90	1.0		DJK
681 VORO	13	0148	0148	0152	S17	H60	.896	16343	8.6	4	-N	C	0148	90	1.8		DJ ZX
682 YUNN	13	0415E	0416	0430	N14	H25	.436	16350	11.3	14D	-N	C		129	1.4		ZX
683 YUNN	13	0657	0700	0714	N17	H38	.626	16344	10.4	17	?N	C		209	2.7		ZX
		IMP.1 NO	PURP	CULG													
684 KHAR	13	0815E		0900D	N29	E58	.859	16366	17.7	45D	-F	P	0828				OH ZX
GRP78685	13	0840	0843	0900D	N16	H39	.636	16344	10.4	20	-N						
MONT	13	0840	0843	0850D	N16	H39	.636	16344	10.4	10D	-N	C	0843	70			
KHAR	13	0845E		0854D	N16	H40	.648	16344	10.4	9D	-F	V	0848				T
ATHN	13	0855E	0855	0900D	N17	H37	.613	16344	10.6	5D	-N	*	0855	125	1.3		
GRP78686	13	0855+1	0857	0900	N11	H15	.270	16350	12.2	5	-F						OH
KHAR	13	0855E		0900D	N12	H16	.290	16350	12.2	5D	-F	V	0858				OH
ISTA	13	0856	0857	0900	N11	H15	.270	16350	12.2	4	-N						D
GRP78687	13	0915	0918	0935D	N15	H39	.634	16344	10.5	20	-N						H
KHAR	13	0915	0918	0935D	N16	H40	.648	16344	10.4	20D	-N	P	0918	110	1.5		HT
KHAR	13	0931E		0931D	N15	H38	.621	16344	10.5		-F	P					DT
688 KHAR	13	0954E		1008D	N14	H40	.645	16344	10.4	14D	-F	P					DT ZX
	13	1050	1052	NO FLARE PATROL													
689 RAMY	13	1122	1123	1141	N15	H41	.659	16344	10.4	19	-F	3 C		23			ZX
690 RAMY	13	1150	1207	1351	N15	H42	.671	16344	10.3	121	-N	3 C		67			ZX
691 RAMY	13	1200	1200	1227	S22	H88	1.000		6.9	27	-F	3 C					ZX
692 RAMY	13	1238	1318	1321D	S17	H69	.951	16343	8.4	43D	-B	3 C					FOE ZX
693 RAMY	13	1247	1248	1300	S32	E13	.643	16360	14.5	13	-N	3 C		21			ZX
694 RAMY	13	1317	1317	1353	N31	F46	.763	16366	17.0	36	-F	3 C		30			ZX
695 RAMY	13	1332	1339	1422	N28	E22	.504	16357	15.2	50	-B	3 C		86			FOE ZX
GRP78696	13	1352	1442	1611	N14	H48	.741	16344	10.0	139	-N						
		1500+2															
RAMY	13	1352	1442	1711	N14	H41	.657	16344	10.5	199	-B	3 C		85			
HOLL	13	1411E	1500	1623	N13	H48	.741	16344	10.0	132D	-N	2 C		151			F
HUAN	13	1450		1535	N15	H49	.754	16344	9.9	45	-F	1 C	1456	20	.3		D
BIGB	13	1452	1502	1558	N16	H50	.766	16344	9.9	66	-B	2 C	1502	50	.8		
GRP78697	13	1443+8	1444	1502	S16	H70	.955	16343	8.4	19	-F						
		1453															
RAMY	13	1443	1444	1504	S15	H72	.963	16343	8.2	21	-F	3 C					
HOLL	13	1451	1453	1500	S17	H69	.951	16343	8.4	9	-F	2 C		19			



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPACTANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST										
720 YUNN	14	0515	0520	0530	N30	E40	.702	16366	17.2	15	-F	C	48	.7	ZX	
GRP78721	14	0557	0617	0747	N25	E85	.992	16373	20.6	110	-N				F	
PURP	14	0557	0617	0734	N24	E85	.993	16373	20.6	97	-N	C			BF	
ISTA	14	0630E		0800	N26	E86	.994	16373	20.7	900	1N					
GRP78722	14	0650+6	0653+6	0704	N28	E20	.486	16357	15.8	14	-B				EUV	
YUNN	14	0650	0654	0702	N28	E21	.496	16357	15.9	12	-N	C	161	1.8	E	
ISTA	14	0651	0653	0704	N28	E20	.486	16357	15.8	13	-B				UV	
ATHN	14	0656	0659	0712	N27	E19	.465	16357	15.7	16	-B	3 C	32		DE	
GRP78723	14	0654+4	0659+1	0715	N14	H50	.764	16344	10.5	21	1B				UV	
YUNN	14	0654	0700	0712	N16	H50	.766	16344	10.5	18	2N	C	440	6.7		
ISTA	14	0656	0659	0715	N14	H49	.753	16344	10.6	19	1B				UV	
ATHN	14	0658	0700	0719	N13	H51	.774	16344	10.5	21	-B	1	0700	114	1.7	
724 YUNN	14	0810	0814	0816	N17	H50	.767	16344	10.6	6	1B	C	161	2.5	ZX	
725 YUNN	14	0820E	0820	0826	N29	E37	.667	16366	17.1	60	1B	C	161	2.2	E ZX	
726 YUNN	14	0836	0842	0858	N23	E75	.961	16373	20.0	22	-F	C	32		A ZX	
727 TELV	14	0943	0945	0945D	N28	E21	.496	16357	16.0	20	-N	3	24	.3	W ZX	
GRP78728	14	1041	1043+1	1117	N27	E11	.399	16357	15.3	36	-B					
TELV	14	1041	1043	1113	N29	E15	.455	16357	15.6	32	-B	3	71	.7		
TELV	14	1043	1044	1117	N25	E08	.351	16357	15.0	34	-F	3	24	.3		
GRP78729	14	1115	1216+2	1318	N31	E40	.708	16366	17.5	123	-N		100	1.5	DV	
			1304													
RAMY	14	1115	1218	1324	N30	E33	.633	16366	16.9	129	-B	3 C	68			
ABST	14	1215E	1216	1225D	N31	E40	.708	16366	17.5	100	-N	P	1216	131	1.8	DV
HUAN	14	1254	1304	1312	N32	E42	.732	16366	17.7	18	-N	1 C	1304	35	.5	
730 TELV	14	1119	1121	1128	N29	E20	.497	16357	16.0	9	-N	3	40	.4	ZX	
731 RAMY	14	1146	1150	1220	N26	E72	.947	16373	19.9	34	?F	3 C	111		ZX	
		IMP.1 NO	ABST	CATA												
GRP78732	14	1150+5	1153+3	1201	S16	H84	.997	16343	8.2	11	-N				DJ	
RAMY	14	1150	1153	1204	S17	H80	.991	16343	8.5	14	-F	3 C	23			
ABST	14	1155	1156	1158	S15	H89	1.000	16343	7.8	3	1N	C	1156	87	DJ	
733 ABST	14	1155	1156	1202	N25	E89	.998	16373	21.2	7	?N	* C	1156	87	OJV ZX	
		IMP.1 NO	RAMY													
GRP78734	14	1201+2	1203+1	1231	N14	H55	.816	16344	10.4	30	-B				DV	
RAMY	14	1201	1203	1231	N13	H55	.815	16344	10.4	30	-B	3 C	50			
ABST	14	1203	1204	1225D	N15	H55	.816	16344	10.4	220	1N	P	1204	131	2.3	DV
735 RAMY	14	1211	1213	1228	S17	H80	.991	16343	8.5	17	-F	3 C	11		ZX	
736 RAMY	14	1246	1250	1328	N13	H61	.870	16344	10.0	42	-N	3 C	16		ZX	
GRP78737	14	1314+0	1315+3	1327	N25	E75	.961	16373	20.2	13	-B		50		Y	
ATHN	14	1314	1318	1327	N24	E75	.961	16373	20.2	13	-B	3 C	64		F	
RAMY	14	1314	1315	1328	N26	E71	.942	16373	19.9	14	-B	3 C	42		Y	
HUAN	14	1314	1316	1324	N25	E87	.996	16373	21.1	10	-N	1 C	1316	45	E	
738 RAMY	14	1412	1414	1420	N12	H56	.825	16344	10.4	8	-N	3 C	28		ZX	
739 RAMY	14	1414	1418	1430	S06	H81	.990	16361	8.5	16	1N	3 C	94		ZX	
740 RAMY	14	1416	1418	1430	S17	H81	.993	16343	8.5	14	-F	3 C	50		ZX	
GRP78741	14	1534+2	1554+1	1604	N32	E35	.666	16366	17.3	30	-N		60	.8		
HUAN	14	1534		1538D	N33	E31	.636	16366	17.0	40	-F	1 P			D	
HOLL	14	1536	1554U	16110	N33	E38	.700	16366	17.5	350	-N	2 C	144		F	
RAMY	14	1553	1555	1601	N31	E32	.630	16366	17.1	8	-N	3 C	55			
BIGB	14	1553	1554	1604	N31	E40	.708	16366	17.7	11	-N	2 C	1554	40	.5	
GRP78742	14	1537+0	1537+4	1545	N25	E80	.980	16373	20.7	8	-F		60		AY	
BIGB	14	1510	1537	1604	N25	E85	.992	16373	21.0	54	-N	1 C	1537	90	A	
HUAN	14	1537		1538D	N25	E87	.996	16373	21.2	10	-F	1 P				
RAMY	14	1537	1541	1545	N26	E74	.956	16373	20.2	8	-F	* C			Y	
HOLL	14	1537	1538	1544	N27	E76	.965	16373	20.4	7	-F	* C	38			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP78743	14	1626+2	1627+1	1639	N31	E36	.669	16366	17.4	13	-F		25	.3	F		
BIGB	14	1626	1627	1629	N31	E40	.708	16366	17.7	3	-F	2	C	1627	20	.3	
RANY	14	1628	1628	1648	N31	E33	.640	16366	17.2	20	-N	3	C		28		
744 BIGB	14	1710	1711	1717	N24	E85	.993	16373	21.1	7	-B	2	C	1711	30		ZX
GRP78745	14	1720+0	1720+6	1735	N31	E36	.669	16366	17.4	15	-N			90	1.2		
PALE	14	1720E	1720	1735	N31	E35	.659	16366	17.3	15D	-N	3	C		101		FDE
BIGB	14	1720	1721	1731	N31	E39	.698	16366	17.6	11	-N	2	C	1721	30	.4	FDE
RANY	14	1720	1721	1735	N32	E36	.675	16366	17.4	15	-B	3	C		95		FDE
HOLL	14	1722E	1726U	1731D	N32	E36	.675	16366	17.4	9D	-B	2	C		93		DE
GRP78746	14	1758+0	1801+1	1822	N26	E79	.976	16373	20.7	24	-N						FDE
PALE	14	1758	1801	1830	N26	E79	.976	16373	20.7	32	-N	3	C				FDE
BIGB	14	1758	1801	1807	N25	E85	.992	16373	21.1	9	-N	2	C	1801	70		FDE
HOLL	14	1758	1802	1822	N28	E75	.9E1	16373	20.4	24	-B	3	C				DE
747 HOLL	14	1801	1803	1817	N28	E09	.401	16357	15.4	16	-N	3	C		64		U ZX
748 HOLL	14	1825	1829	1833	N30	E76	.966	16373	20.5	8	-F	3	C				ZX
749 BIGB	14	1848	1853	1909	N23	W55	.825	16344	18.7	21	-N	2	C	1853	60	1.1	ZX
GRP78750	14	1919+1	1922+2	1939	N26	E80	.980	16373	20.8	20	-N						DE
PALE	14	1919	1924	1933	N26	E80	.980	16373	20.8	14	-F	3	C				DE
BIGB	14	1919	1924	1945	N25	E80	.980	16373	20.8	26	-N	2	C	1924	60		DE
HOLL	14	1920	1922	1939	N28	E76	.965	16373	20.5	19	-N	3	C				DE
GRP78751	14	1945+0	1945+1	1954	N15	W62	.878	16344	10.2	9	-N			30	.6		
BIGB	14	1945	1946	1953	N16	W64	.894	16344	10.0	8	-N	2	C	1946	30	.7	
HOLL	14	1945	1945	1954	N15	W61	.870	16344	10.2	9	-N	3	C		33		
752 HOLL	14	1948	1950	2001	N29	E76	.965	16373	20.5	13	-N	3	C				ZX
753 BIGB	14	2014	2018	2032	N25	E80	.980	16373	20.8	18	-N	2	C	2018	20		ZX
754 BIGB	14	2124	2125	2130	N25	E80	.980	16373	20.9	6	-F	2	C	2125	20		ZX
GRP78755	14	2140	2146+1	2152D	N25	E79	.976	16373	20.8	12	-F						DE
BIGB	14	2140	2146	2227	N25	E80	.980	16373	20.9	47	-N	2	C	2146	30		DE
PALE	14	2146E	2147U	2152	N26	E78	.973	16373	20.8	6D	-F	3	C				DE
756 BIGB	14	2259	2300	2307	N25	E80	.980	16373	21.0	8	-N	2	C	2300	30		ZX
757 BIGB	14	2309	2345	0011	N24	E80	.980	16373	21.0	62	-B	2	C	2345	30		ZX
GRP78758	14	2319+4	2324+4	2335	N30	E13	.454	16357	15.9	16	-N			70	.8		HL
CULG	14	2319	2324U	2358	N30	E14	.460	16357	16.0	39	1N		C	2324	400	4.4	L
HOLL	14	2323	2328	2335	N32	E12	.475	16357	15.9	12	-B	3	C		69		DE H
BIGB	14	2323	2327	2333	N30	E15	.468	16357	16.1	10	-N	2	C	2327	30	.3	
MANI	14	2323E	2325U	2336	N28	E12	.420	16357	15.9	13D	-F	2	C		50		
PALE	14	2324E	2328U	2334D	N30	E14	.460	16357	16.0	10D	-N	3	C		80		
759 CULG	14	2324	2337	2342	S15	W90	1.000	16343	8.2	18	-F		C	2337	40		ZX
GRP78760	15	0008+6	0015+3	0024	N28	E07	.392	16357	15.5	16	1N						
CULG	15	0008	0018	0051	N29	E08	.412	16357	15.6	43	2N		C	0018	600	6.6	
YUNN	15	0014	0015	0020	N28	E07	.392	16357	15.5	6	1B		C		225	2.5	
BIGB	15	0014	0016	0024	N28	E07	.567	16357	15.5	10	-F	2	C	0016	90	.9	
761 BIGB	15	0012	0017	0034D	N25	E78	.973	16373	20.9	22D	-N	2	P	0017	40		ZX
GRP78762	15	0624E	0625	0647	N28	E05	.385	16357	15.6	23	-F						D
MANI	15	0624E	0625	0638D	N29	E08	.412	16357	15.9	14D	-F	3	C		25		D
ISTA	15	0625E		0647	N28	E03	.379	16357	15.5	22D	-N						D
763 ISTA	15	0625E		0738	S15	W90	1.000	16343	8.5	73D	?N	*					A ZX
		IMP.1 NO	YUNN	TACH													
764 ISTA	15	0639		0645	N26	E65	.906	16373	20.2	6	-F						D ZX
GRP78765	15	0734		0740	N27	D0	.360	16357	15.3	6	-F						E
ISTA	15	0734		0740	N27	E01	.361	16357	15.4	6	-F	*					E
CATA	15	0735E	0735	0735D	N27	W01	.361	16357	15.2		-N	*	P	0735	140	1.5	
766 CATA	15	0930E	0930	1005D	S16	W90	1.000	16343	8.6	35D	-F	2	P	0930	28		ZX

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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	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA		CORR AREA		
					LAT.	MER. DIST											Mill of Disk	Sq Deg.
767 KHAR	15	1055E		11330	N17	H75	.961	16344	9.8	380	-F	P	1103				D	ZX
768 KHAR	15	1137E	1138	11440	N17	H67	.916	16344	10.5	70	-N	V	1138					ZX
769 RAMY	15	1219	1227	1302	N31	E24	.555	16366	17.3	43	-N	3	C		45			ZX
770 LVOV	15	1332	1332	1441	N25	H85	.993	16341	9.2	69	-F	C	1332	50			DKC	ZX
771 RAMY	15	1343	1347	1402	N32	E22	.548	16366	17.2	19	-F	3	C		36			ZX
772 RAMY	15	1409	1429	1544	N28	E64	.901	16373	20.4	95	-N	3	C		35			ZX
GRP78773	15	1451+1	1452+6	1505	N31	E03	.427	16357	15.8	14	-B			50	.6			
BIGB	15	1451	1458	1502	N31	E05	.431	16357	16.0	11	-N	2	C	1458	50	.5		
HOLL	15	1452	1453	1505	N31	E03	.427	16357	15.8	13	-B	3	C		55			
RAMY	15	1452	1452	1505	N31	E03	.427	16357	15.8	13	-B	3	C		29			
774 BIGB	15	1551	1552	1557	N26	H85	.992	16341	9.3	6	-N	2	C	1552	20			ZX
GRP78775	15	1556>9	1611+5	1704	N27	E65	.907	16373	20.5	68	-N			30				
RAMY	15	1556	1611	16200	N28	E63	.895	16373	20.4	240	-N	3	C		21			
BIGB	15	1613	1616	1704	N26	E67	.919	16373	20.7	51	-N	2	C	1616	40			
776 BIGB	15	1751	1754	1817	N27	H85	.992	16341	9.4	26	-B	3	C	1754	40		A	ZX
GRP78777	15	1847	1906+2	1927	N32	E21	.540	16366	17.4	40	-N			80	1.0			
HOLL	15	1847	1908	1920	N33	E18	.528	16366	17.1	33	-B	3	C		93			DE
PALE	15	1900E	1907	19420	N32	E21	.540	16366	17.4	420	-N	3	C		90			F
BIGB	15	1905	1906	1927	N31	E21	.529	16366	17.4	22	-N	3	C	1906	50	.5		
778 BIGB	15	1920	1925	1934	N27	H85	.992	16341	9.4	14	-B	3	C	1925	30		A	ZX
779 BIGB	15	2007	2009	2023	N26	E65	.906	16373	20.7	16	-N	3	C	2009	40			ZX
GRP78780	15	2027+0	2033+1	2107	N27	E63	.894	16373	20.6	40	-F			40	1.0			F
BIGB	15	2027	2034	2107	N26	E65	.906	16373	20.7	40	-N	3	C	2034	40			
PALE	15	2027E	20330	20510	N28	E62	.888	16373	20.5	240	-F	3	C		40			F
781 CULG	15	2050	2057	2119	N08	E03	.064	16363	16.1	29	-F	C	2057	40	.4			ZX
GRP78782	15	2052	2057	2119	N28	H04	.382	16357	15.6	27	-N							
CULG	15	2052	2057	2119	N29	H03	.395	16357	15.6	27	-N	C	2057	110	1.2			
PALE	15	2058E	20580	21090	N27	H05	.369	16357	15.5	110	-F	3	C		26			DE
GRP78783	15	2058>9	2119+3	2145	N31	E20	.520	16366	17.4	47	-F							F
PALE	15	2058E	2122	21520	N32	E19	.524	16366	17.3	540	-F	*	C		41			F
CULG	15	2114	2119	2137	N31	E21	.529	16366	17.5	23	-F	*	C	2119	140	1.6		T
GRP78784	15	2106+0	2109+2	2118	N27	H89	.998	16341	9.2	12	-F			25				
CULG	15	2106	2111	2117	N27	H88	.997	16341	9.3	11	-F	C	2111	30				
BIGB	15	2106	2109	2119	N27	H90	.999	16341	9.1	13	-N	3	C	2109	20			
785 CULG	15	2129	2130	2136	N31	H04	.429	16357	15.6	7	-N	C	2130	70	.8			ZX
GRP78786	15	2145+9	2159+2	2215	N26	E64	.900	16373	20.7	30	-F			35				F
PALE	15	2145	2159	22000	N26	E63	.893	16373	20.6	150	-F	3	C		31			F
BIGB	15	2154	2201	2215	N26	E65	.906	16373	20.8	21	-N	3	C	2201	40			
787 CULG	15	2222	2244	2304	N23	E23	.469		17.7	42	-N	C	2244	60	.7		FT	ZX
788 CULG	15	2232	2241	2252	N15	H49	.754	16350	12.3	20	-F	C	2241	40	.6			ZX
789 PALE	15	2236E	22430	2244	N26	E62	.885	16373	20.6	80	-F	3	C		13			ZX
790 PALE	15	2258	23000	2312	N27	E63	.894	16373	20.7	14	-N	3	C		20			F
791 CULG	15	2356	2357	0005	N19	E44	.704	16368	19.3	9	-F	C	2357	60	.8			ZX
GRP78792	16	0020+9	0027+3	0045	N23	H67	.918	16344	11.0	25	1N							FS
CULG	16	0000	0030	0109	N23	H67	.918	16344	11.0	69	1N	C	0030	210	4.9			S
BIGB	16	0020	0027	00440	N23	H67	.918	16344	11.0	240	-N	1	P	0027	70			
YUNN	16	0020	0030	0040	N25	H66	.912	16344	11.1	20	1B	C		151	3.7			
PALE	16	0025	0027	0045	N21	H66	.910	16344	11.1	20	-F	3	C		36			F
PURP	16	0029	0030	0046	N22	H70	.935	16344	10.8	17	1N	C						
793 PALE	16	0044	0046	0107	N26	E61	.878	16373	20.6	23	-F	3	C		17			F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.		
					LAT.	NER. DIST												
794 CULG	16	0150	0154	0211	S26	E58	.903	0	20.4	21	-N	C	0154	50	1.0	G	ZX	
795 CULG	16	0236	0243	0305	N06	E52	.785	16368	20.0	29	?N	C	0243	180	2.9	L	ZX	
IMP.1 NO : YUNN				PURP	MITK													
GRP78796	16	0237	0252	0358	N14	W78	.974	16344	10.3	81	?F							
CULG				0345														
IMP.1 NO : YUNN				PURP	MITK													
CULG	16	0237	0252	0340	N16	W80	.981	16344	10.1	63	?F	C	0252	80				
CULG	16	0331	0345	0358	N13	W76	.966	16344	10.4	27	-N	* C	0345	60				
797 CULG	16	0257	0303	0311	N30	E00	.410	16357	16.1	14	-N	C	0303	40	.4		ZX	
798 CULG	16	0437	0441	0445	S26	E56	.890		20.4	8	-N	C	0441	60	1.2	G	ZX	
799 PURP	16	0443	0444	0450	N36	W20	.578		14.7	7	-N	P				G	ZX	
GRP78800	16	0532E	0533	05400	N26	E58	.855	16373	20.6	8	-N						EJ	
ABST	16	0532E	0533	05400	N28	E60	.874	16373	20.7	80	-N	P	0533	87	1.7		DJ	
ABST	16	0532E	0533	0540	N24	E56	.836	16373	20.4	80	-N	P	0533	87	1.6		EJ	
801 ABST	16	0537E	0539	05450	S06	E36	.613	16368	18.9	80	-N	P	0539	131	1.7	E	ZX	
GRP78802	16	0625+6	0632+0	0650	N30	W02	.411	16357	16.1	25	-B			160	1.8		DH	
CULG	16	0625	0632	0654	N30	W02	.411	16357	16.1	29	-B	C	0632	140	1.5		H	
TACH	16	0631	0632	0645	N31	W02	.427	16357	16.1	14	1N	C	0632	177	2.0		D	
803 TACH	16	0657	0659	0710	N31	E11	.457	16366	17.1	13	-N	C	0659	127	1.4	D	ZX	
804 CATA	16	0745	0745	0800	N30	W07	.424	16357	15.8	15	-N	2 C	0745	112	1.2		ZX	
805 ISTA	16	0800		0825	N28	W09	.403	16357	15.7	25	-F					D	ZX	
GRP78806	16	0855	0857	0910	N28	W10	.409	16357	15.6	15	-F						L	
MONT	16	0855	0857	0904	N29	W09	.418	16357	15.7	9	-F	C	0857	50			L	
KHAR	16	0908E		09150	N27	W12	.408	16357	15.5	150	-F	V	0904				L	
807 KHAR	16	0946E	0948	10200	N26	E54	.822	16373	20.5	340	-N	P	0950	110	2.0	EH	ZX	
808 KHAR	16	1020E	1034	10560	N27	W12	.408	16357	15.5	360	?F	P	1033	200	2.3	KL	ZX	
IMP.1 NO : MONT				CATA														
809 KHAR	16	1027E	1030	10330	N13	W69	.929	16350	11.3	60	-F	P	1030	30		D	ZX	
810 KHAR	16	1110	1113	1135	N23	E53	.807	16373	20.4	25	-N	P	1111			EH	ZX	
GRP78811	16	1202+3	1205+5	1245	N25	W15	.406	16357	15.4	43	18			270	3.0		HV	
MONT	16	1202	1206	12300	N27	W14	.423	16357	15.5	280	18	C	1206	250				
TELV	16	1203	1205	1236	N22	W20	.426	16357	15.0	33	18	1 C		285	3.1		FV	
RAMY	16	1204	1207	1313	N26	W13	.402	16357	15.5	69	18	3 C		205			FDE	
CATA	16	1205	1210	12450	N25	W15	.406	16357	15.4	400	18	2 P	1210	449	5.0			
KHAR	16	1207E	1209	12330	N25	W16	.416	16357	15.3	260	1N	P	1209	280	3.2		EH	
812 LVOV	16	1318	1319	1328	N26	E57	.847	16373	20.8	10	-N	C	1319	50	.9	D	ZX	
813 LVOV	16	1348	1350	1355	N28	W12	.422	16357	15.7	7	-N	C	1350	50	.6	D	ZX	
GRP78814	16	1419+0	1424+1	1438	N28	E52	.809	16373	20.5	19	-N			40	.7		F	
HOLL	16	1419	1425	1438	N28	E53	.817	16373	20.6	19	-N	3 C		53				
RAMY	16	1419	1424	1437	N28	E51	.800	16373	20.4	18	-N	3 C		30			F	
GRP78815	16	1448+4	1455+3	1553	N17	E02	.197	16363	16.8	65	-N			110	1.1		U	
HOLL	16	1448	1455	1601	N16	E02	.180	16363	16.8	73	-B	3 C		112			UDE	
BIG8	16	1451	1458	1544	N17	E02	.197	16363	16.8	53	-N	2 C	1458	110	1.1		U F	
RAMY	16	1452	1458	1553	N17	E02	.197	16363	16.8	61	1N	3 C		265				
GRP78816	16	1638+0	1638	16520	N27	W13	.415	16357	15.7	14	-F						F	
HOLL				1645														
HOLL	16	1638	1645	1733	N28	W14	.436	16357	15.6	55	-F	3 C		85				
RAMY	16	1638	1638	1652	N27	W13	.415	16357	15.7	14	-N	3 C		55			F	
GRP78817	16	1642+1	1646+4	1703	N27	E54	.824	16373	20.7	21	-F			35	.6			
BIG8	16	1642	1646	1659	N26	E56	.839	16373	20.9	17	-F	2 C	1646	40	.7			
HOLL	16	1643	1650	1706	N29	E52	.811	16373	20.6	23	-N	3 C		33				
818 HOLL	16	1645	1648	1658	N15	W03	.168	16363	16.5	13	-F	3 C		28			ZX	

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST.											
GRP78819	16	1727	1732 1803	1911	N28	E49	.782	16373	20.4	104	-B						F
HOLL	16	1727	1732	1920	N29	E49	.785	16373	20.4	113	-B	3	C		40		F
HOLL	16	1727	1803	1920	N29	E49	.785	16373	20.4	113	-B	3	C		106		F
PALE	16	1821E	1830	1902	N28	E50	.791	16373	20.5	410	-N	3	C		30		F
820 BIGB	16	2002E	2011	2022	N25	E56	.837	16373	21.0	200	-N	1	P	2011	30	.6	ZX
821 BIGB	16	2009	2016	20330	S18	W70	.956	16372	11.6	240	-N	1	P	2016	40		ZX
822 PALE	16	2009E	2024U	2032	S11	E81	.991	16379	22.9	230	-F	3	C		15		ZX
823 PALE	16	2017	2022	2047	S06	E26	.477	16368	18.8	30	-F	3	C		32		ZX
824 CULG	16	2037E	2037E	2041	N30	E02	.411	16366	17.0	40	-N		P	2037	60	.7	ZX
825 PALE	16	2058	2100	2211	S20	W70	.958	16372	11.6	73	-F	3	C		12		ZX
826 CULG	16	2104	2112	2122	N18	E20	.391	16368	18.4	18	-N		C	2112	50	.5	G ZX
827 CULG	16	2119	2120	2126	N29	W15	.457	16357	15.8	7	-N		C	2120	100	1.1	ZX
828 CULG	16	2119	2127	2155	N07	E42	.666	16368	20.0	36	-F		C	2127	80	1.0	ZX
829 CULG	16	2145	2159	2209	S05	E27	.486	16368	18.9	24	-F		C	2159	140	1.6	ZX
830 CULG	16	2225E	2225	2232D	N18	W89	.999	16344	10.3	70	-N		P	2225	20		ZX
GRP78831	16	2236+3	2239+2	2322	S06	E30	.533	16368	19.2	46	-N						FL
CULG	16	2236	2241	2326	S08	E30	.544	16368	19.2	50	1N		C	2241	280	3.3	L
HOLL	16	2239	2239	2317	S05	E30	.528	16368	19.2	38	-N	3	C		55		F
GRP78832	16	2303>9	2308 2322	2333	N32	E02	.442	16366	17.1	30	-N						FL
CULG	16	2303	2308	2341	N33	E00	.457	16366	17.0	38	1N		C	2308	350	4.0	L
PALE	16	2319	2322	2324	N31	E05	.432	16366	17.3	5	-F	3	C		51		F
GRP78833	16	2303>9	2312 2329	2340	S20	W77	.984	16372	11.2	37	-F						T
CULG	16	2303	2312U	2329U	S19	W80	.991	16372	11.0	260	1F		C	2312	120		
PALE	16	2321	2329	2340	S21	W74	.976	16372	11.4	19	-F	3	C		18		
834 PALE	16	2319	2321	2325	N27	E48	.769	16373	20.6	6	-F	3	C		76		ZX
835 CULG	16	2333	2339	2352	N15	E01	.161	16363	17.1	19	-F		C	2339	100	1.0	L ZX
836 PALE	17	0038 IMP.1 NO :	0046 CULG	0128 PURP	N26	E43	.698	16373	20.3	50	?N	3	C		239		ZDE ZX
837 PALE	17	0218	0219	0221	N07	E36	.583	16368	19.8	3	-F	3	C		24		ZX
838 CULG	17	0312	0318	0339	N23	W88	.996	16344	10.5	27	-F		C	0318	40		ZX
839 YUNN	17	0320	0326	0330	N30	E03	.366	16366	17.4	10	-N		C		64	.7	ZX
840 CULG	17	0325	0331	0346	S27	E53	.887	16374	21.1	21	-F		C	0331	40	.8	ZX
841 CULG	17	0335 IMP.1 NO :	0348U PURP	0411 YUNN	N32	W02	.396	16366	17.0	36	?N		C	0348	200	2.2	H ZX
842 YUNN	17	0355	0400	0405	S12	E77	.983	16379	22.9	10	-N		C		64		A ZX
843 YUNN	17	0440	0444	0444D	N31	E04	.384	16366	17.5	40	-N		C		48	.5	ZX
GRP78844	17	0545+0	0548+1	0553	N06	E34	.557	16368	19.8	8	-N				110	1.3	OG
TACH	17	0545	0548	0550	N06	E35	.571	16368	19.9	5	-N		C	0548	132	1.6	D
YUNN	17	0545	0549	0555	N06	E34	.601	16368	19.8	10	-B		C		96	1.2	G
845 ABST	17	0606	0607	0614	N26	E46	.730	16373	20.7	8	-N		C	0607	131	1.9	EJ ZX
846 PURP	17	0637E IMP.1 NO :	0637 CULG	0643 YUNN	N29	W17 TACH	.435	16357	16.0	60	?N		P				H ZX



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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.		
					LAT.	NER. DIST.													
GRP78847	17	0648+4	0658+9 0736+4	0754	N26	E42	.687	16373	20.4	66	2N						EIJV		
TELV	17	0648	0701	0746	N23	E40	.654	16373	20.3	58	1B	1	C		275	3.7	V		
ABST	17	0648	0700	08250	N26	E45	.719	16373	20.7	970	-N		P	0700	131	1.8	DJ		
CULG	17	0649U	0714U	07390	N27	E40	.669	16373	20.3	500	2N		C	0714	500	7.0			
YUNN	17	0650	0703	0730	N26	E42	.687	16373	20.4	40	2N		C		551	7.6			
TACH	17	0651	0709	0750	N26	E42	.687	16373	20.4	59	2N		C	0709	484	6.9	E		
ATHN	17	0652	0658	0738	N28	E45	.725	16373	20.7	46	1B	4	C		222		DE		
PURP	17	0658	0707	0800	N27	E39	.658	16373	20.2	62	2N		P		755	10.1			
KODA	17	0702E	0702	0730	N27	E43	.701	16373	20.5	280	2N		P	0706	974	10.0	E		
HTPR	17	0706E		0800	N27	E43	.701	16373	20.5	540	1N		C	0711	250	3.3	EI		
ABST	17	0730	0736	0750	N26	E45	.719	16373	20.7	20	1N	*	C	0736	174	2.5	EJ		
GATA	17	0735E	0740	0850	N27	E32	.578	16373	19.7	750	1N	*	P	0740	168	2.1			
ABST	17	0800	0810	0820	N26	E45	.719	16373	20.7	20	1N	*	C	0810	174	2.5	EJ		
GRP78848	17	0653+1	0656+1	0710	N31	W17	.459	16357	16.0	17	-N				90	1.0	J		
ABST	17	0653	0656	0710	N32	W16	.463	16357	16.1	17	-N		C	0656	87	1.3	EJ		
TACH	17	0654	0657	0709	N31	W18	.467	16357	15.9	15	-N		C	0657	88	1.0	D		
GRP78849	17	0657+1	0659+2	0713	N31	00	.379	16366	17.3	16	-N				130	1.4	EJ		
ABST	17	0657	0659	0710	N31	E01	.379	16366	17.4	13	-N		C	0659	131	1.8	EJ		
TACH	17	0658	0701	0715	N31	W02	.380	16366	17.1	17	-N		C	0701	132	1.4	E		
GRP78850	17	0755+0	0800+0	0810	S12	E90	1.000	16379	24.1	15	-F				30				
GATA	17	0755	0800	0810	S11	E90	1.000	16379	24.1	15	-N	2	C	0800	39				
HTPR	17	0755	0800	0810	S13	E90	1.001	16379	24.1	15	-F		C	0800	20				
GRP78851	17	0803+3	0807+3	0823	N31	W01	.379	16366	17.3	20	1N				220	2.4	E		
PURP	17	0803	0807	0820	N31	W01	.379	16366	17.3	17	1N		C						
GATA	17	0805	0810	0845	N31	W02	.380	16366	17.2	40	1N	2	C	0810	224	2.5			
YUNN	17	0805	0810	0813	N31	W01	.379	16366	17.3	8	1N		C		321	3.6			
HTPR	17	0806	0808	0826	N30	W01	.363	16366	17.3	20	-N		C	0808	60	.7	E		
852	ABST	17	0822E	0825	0826D	S17	W85	.999	16372	11.0	4D	?N	P	0825	87		D	ZX	
			IMP.1 NO : PURP	YUNN	HTPR	GATA													
853	HTPR	17	0831	0832	0835	N23	W38	.630	16357	14.5	4	-F	C	0832	10	.1		ZX	
854	KHAR	17	0849E		0927D	S19	W90	1.001	16372	10.6	380	-N	P				H	ZX	
855	HTPR	17	0917		0926D	N19	W80	.977	16380	11.4	90	-F	C	0919	30			ZX	
856	KHAR	17	0920E		0927D	N32	E01	.395	16366	17.5	70	-F	P				E	ZX	
857	HTPR	17	0937	0939	0941	N30	W21	.484	16357	15.8	4	-F	C	0939	20	.2		ZX	
858	HTPR	17	0937	0942	0946	N24	W39	.646	16357	14.5	9	-F	C	0942	60	.8		ZX	
859	KHAR	17	1111E		1128D	S15	E90	1.001	16379	24.2	170	-N	P	1115			H	ZX	
GRP78860	17	1111E	1115 1138+3	1153	N31	00	.379	16366	17.5	42	-B				110	1.2	E		
KHAR	17	1111E	1138	1145D	N32	W01	.395	16366	17.4	340	1N		P	1141	275	3.1	E		
MONT	17	1112E	1115	1126	N32	E02	.396	16366	17.6	140	-N		C	1115	100		E		
RAMY	17	1136	1139	1200	N30	W01	.363	16366	17.4	24	-B	3	C		79		FDE		
ATHN	17	1138E	1141	1215	N31	E00	.379	16366	17.5	370	-B	4	C		111		DE		
ATHN	17	1144	1149	1152D	N31	E00	.379	16366	17.5	80	-B	3	C		95		DE		
GRP78861	17	1121E		1145D	N19	W86	.993	16380	11.0	24	-F						EH		
KHAR	17	1121E		1145D	N18	W90	.999	16380	10.7	240	-F		P	1124			H		
KHAR	17	1124E		1145D	N21	W82	.983	16380	11.3	210	-F		P	1124			E		
862	KHAR	17	1127E		1145D	S18	W90	1.001	16372	10.7	180	-F	P	1127			D	ZX	
863	RAMY	17	1211	1212	1217	N31	W02	.380	16366	17.4	6	-F	3	C		21		ZX	
GRP78864	17	1240+4	1247+2 1411	1424	N31	W04	.384	16366	17.2	104	-B				90	1.0			
RAMY	17	1240	1247	1500	N31	W04	.384	16366	17.2	140	-B	3	C		92		FDE		
ATHN	17	1244	1249	1313	N31	E00	.379	16366	17.5	29	-B	3	C		95		DE		
HOLL	17	1407	1411	1424	N30	W04	.368	16366	17.3	17	-N	3	C		51		F		
865	RAMY	17	1329	1329	1337	N28	E39	.662	16373	20.5	8	-N	3	C		21		F	ZX
GRP78866	17	1432	1435	1517D	N30	W03	.366	16366	17.4	45	-B								
HOLL	17	1432	1435	1440	N30	W04	.368	16366	17.3	8	-N	*	C		89		F		
HTPR	17	1442E		1554D	N30	W02	.364	16366	17.5	720	1B	*	C	1444	220	2.5	E		



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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mill of Disk		CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.											
897 ABST	18	0633	0642	0648	S13	E70	.951	16379	23.5	15	?N	C	0642	87		D	ZX
	IMP.1	NO	PURP	YUNN	CULG	TACH											
898 ABST	18	0640	0644	0715	N31	H10	.454	16366	17.5	35	?N	C	0644	174	2.2	EJ	ZX
	IMP.1	NO	PURP	YUNN	CULG	TACH											
899 HTPR	18	0729E		0852	S15	E74	.971	16379	23.9	83D	-F	C	0833	30	.6		ZX
900 HTPR	18	0735	0735	0745	N26	E30	.575	16373	20.6	10	-F	C	0735	50	.6	E	ZX
GRP78901	18	0757+2	0758+2	0804	N32	W08	.460	16366	17.7	7	-N						DJ
ABST	18	0757	0758	0800	N32	W08	.460	16366	17.7	3	-N	C	0758	131	1.6		DJ
HTPR	18	0759	0800	0804	N32	W08	.460	16366	17.7	5	-F	C	0800	40	.4		
PURP	18	0759	0800	0809	N32	W06	.453	16366	17.9	10	1N	P					
GRP78902	18	0758+2	0805+3	0845	N07	W27	.452	16363	16.3	47	-F						EJ
			0822														
ABST	18	0758	0808	0900	N07	W26	.436	16363	16.4	62	-N	C	0808	131	1.6		EJ
PURP	18	0800	0822	0854	N06	W27	.452	16363	16.3	54	1F	C					
HTPR	18	0800	0805	0830	N07	W28	.467	16363	16.2	30	-F	C	0805	20	.2		
CATA	18	0830E	0830	0835D	N07	W27	.452	16363	16.3	50	-N	2 P	0830	112	1.2		
GRP78903	18	0826+4	0830+1	0900	N31	W12	.465	16366	17.5	34	-N			130	1.5		EJ
			0838														
HTPR	18	0826	0831	0900	N31	W15	.485	16366	17.2	34	-N	C	0831	50	.6		E
ABST	18	0828	0830	0900	N32	W11	.474	16366	17.5	32	-N	C	0830	131	1.6		EJ
CATA	18	0830E	0830	0835D	N31	W13	.471	16366	17.4	50	-N	2 P	0830	140	1.6		
PURP	18	0830	0838	0846	N30	W11	.445	16366	17.5	16	1N	C					
904 ABST	18	0859	0919	1008	N26	W35	.631	16357	15.7	69	-N	C	0919	131	1.6	EJ	ZX
GRP78905	18	0901+5	0915+5	0958	N26	E27	.542	16373	20.4	57	1B			180	2.2		IKV
			0938														
HTPR	18	0901	0919	1000	N26	E26	.531	16373	20.3	59	-B	* C	0919	160	1.8		EI
TEL V	18	0901	0903	0903D	N22	E28	.524	16373	20.5	20	-B	* C		81	.9		
YUNN	18	0902	0920	0920D	N26	E26	.531	16373	20.3	180	1B	* C		393	4.7		
ATHN	18	0906	0915	0955	N25	E28	.546	16373	20.5	49	-B	* C		143			FDE
TEL V	18	0912	0917	1105D	N22	E28	.524	16373	20.5	1130	1B	* C		204	2.4		KV
KODA	18	0925	0938	0948	N26	E27	.542	16373	20.4	23	2F	* P	0934	916	9.4		
906 HTPR	18	0902	0904	0909	S14	E73	.966	16379	23.9	7	-F	C	0904	20	.4		ZX
GRP78907	18	0937+6	0947+6	1006	N31	W11	.460	16366	17.6	29	-B			130	1.5		EJ
ABST	18	0937	0947	1008D	N32	W08	.460	16366	17.8	31D	1N	P	0947	174	2.2		EJ
HTPR	18	0940	0950	1006	N31	W15	.485	16366	17.3	26	-B	C	0950	90	1.0		E
YUNN	18	0943	0947	0947D	N32	W12	.479	16366	17.5	4D	1B	C		385	4.4		E
ATHN	18	0950E	0953	0959	N31	W11	.460	16366	17.6	9D	-N	1	0953	98	1.1		
GRP78908	18	1000+9	1008+4	1040	N25	E33	.603	16373	20.9	40	-N			80	1.0		E
HTPR	18	1000	1008	1030	N26	E32	.598	16373	20.8	30	-B	* C	1008	70	.8		E
ATHN	18	1010	1012	1050	N25	E34	.614	16373	21.0	40	-N	* C	1012	98	1.1		
909 HTPR	18	1039	1042	1056	N30	W33	.636	16357	16.0	17	-N	C	1042	30	.3		ZX
910 HTPR	18	1214	1215	1218	N33	W10	.483	16366	17.8	4	-F	C	1215	20	.2		ZX
911 RAMY	18	1304	1306	1320	S16	W23	.521	16365	16.8	16	-F	3 C		34			ZX
GRP78912	18	1342+9	1401	1409	S12	E71	.955	16379	23.9	27	-F						D
RAMY	18	1342	1401	1412	S11	E69	.944	16379	23.7	30	-F	* C		30			D
HUAN	18	1359		1405	S13	E73	.965	16379	24.1	6	-F	* C					
GRP78913	18	1346+2	1352+2	1406	N30	W34	.645	16357	16.0	20	-B			60	.8		
HTPR	18	1346	1352	1407	N31	W34	.652	16357	16.0	21	-B	C	1352	50	.6		
RAMY	18	1348	1352	1405	N30	W34	.645	16357	16.0	17	-B	3 C		38			
ATHN	18	1350E	1354U	1400D	N28	W33	.622	16357	16.1	10D	-B	2 C		80			DE
GRP78914	18	1412+9	1443	1452D	S12	E68	.939	16379	23.7	40	-F						
RAMY	18	1412	1622	1641	S11	E67	.932	16379	23.6	149	-N	* C		19			
HTPR	18	1440	1443	1452	S13	E70	.951	16379	23.9	12	-F	* C	1443	10	.2		
915 HTPR	18	1414	1415	1418	N33	W22	.561	16366	16.9	4	-F	C	1415	20	.2		ZX

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST.											
GRP78916	18	1437+1	1440+2	1500	N35	W22	.583	16366	17.0	23	-N						EH
			1459														
HTPR	18	1437	1440	1505	N35	W22	.583	16366	17.0	28	-N	C	1440	120	1.5		E
RAMY	18	1438	1442	1453	N32	W22	.551	16366	17.0	15	-N	3 C		45			F H
HUAN	18	1439E		1440D	N35	W21	.576	16366	17.0	10	-N	1 P					E
HTPR	18	1451	1459	1506	N35	W23	.591	16366	16.9	15	-F	C	1459	20	.2		
GRP78917	18	1505+1	1506+2	1514	N31	W16	.492	16366	17.4	9	-N			20	.2		
HTPR	18	1505	1508	1515	N31	W15	.485	16366	17.5	10	-F	C	1508	10	.1		
RAMY	18	1506	1506	1513	N31	W18	.507	16366	17.3	7	-B	3 C		25			
GRP78918	18	1520+0	1529+1	1557	N27	W40	.690	16357	15.6	37	-N			90	1.3		E
HTPR	18	1520	1530	1550	N28	W41	.705	16357	15.6	30	-N	C	1530	80	1.0		E
RAMY	18	1520	1529	1603	N27	W40	.690	16357	15.6	43	-N	3 C		95			
GRP78919	18	1744+1	1746+0	1752	S12	E65	.920	16379	23.6	8	-N			60			
BIGB	18	1744	1746	1751	S14	E66	.929	16379	23.7	7	-B	2 C	1746	50			
RAMY	18	1745	1746	1753	S10	E65	.918	16379	23.6	8	-N	3 C		70			
	18	2107	2110														NO FLARE PATROL
	18	2119	2122														NO FLARE PATROL
	18	2126	2312														NO FLARE PATROL
	18	2319	2325														NO FLARE PATROL
920 CULG	18	2325E	2331U	0023	S14	E65	.923	16379	23.9	580	-F	C	2331	60	1.5		ZX
921 CULG	18	2349	2355	0009	N22	E21	.439	16373	20.6	20	-N	C	2355	140	1.5		ZX
GRP78922	19	0018+7	0024+6	0122	N28	E19	.481	16373	20.4	64	2N			490	5.6		EJ
			0100														
CULG	19	0018	0029	0202U	N28	E19	.481	16373	20.4	1040	2N	C	0029	600	6.9		
VORO	19	0020	0024	0113	N29	E19	.493	16373	20.4	53	1F	C	0024	430	5.1		EJ
PURP	19	0022	0030	0130	N28	E19	.481	16373	20.4	68	2N	C		604	6.9		
YUNN	19	0025	0027	0032	N26	E17	.440	16373	20.3	7	1B	C		321	3.6		E
YUNN	19	0055	0100	0114	N26	E17	.440	16373	20.3	19	1B	C		257	2.9		
GRP78923	19	0415+3	0419+4	0446	N26	E21	.479	16373	20.8	31	2N						E
YUNN	19	0415	0422	0446	N26	E18	.449	16373	20.5	31	2B	C		802	9.1		
PURP	19	0418	0423	0535	N26	E23	.500	16373	20.9	77	3N	C		1510	17.4		
KODA	19	0419E	0419	0444	N26	E21	.479	16373	20.8	250	2F	V	0419				E
924 YUNN	19	0439	0442	0446	N32	W24	.569	16366	17.4	7	?B	C		257	3.1		E ZX
		IMP.1	NO														PURP
925 HTPR	19	0719	0720	0724	N34	W35	.683	16366	16.7	5	-F	C	0720	20	.3		E ZX
926 HTPR	19	0728	0729	0736	N31	W47	.775	16357	15.8	8	-F	C	0728	20	.3		E ZX
927 MONT	19	0836	0838	0845	N36	W35	.697	16366	16.7	9	-F	C	0838	50			E ZX
GRP78928	19	0942+3	0945+3	1001	N32	W27	.595	16366	17.4	19	1N			240	3.0		E
CATA	19	0930	0945	1155	N30	W27	.577	16366	17.4	145	1N	2 C	0945	337	4.2		T
MONT	19	0942	0948	1001	N36	W35	.697	16366	16.8	19	-F	C	0948	70			E
YUNN	19	0945	0947	0958	N32	W24	.569	16366	17.6	13	1B	C		241	2.9		E
GRP78929	19	1050+9	1105+0	1135	N29	E15	.460	16373	20.6	45	-B			170	1.9		EI
			1119+3														
HTPR	19	1050	1112	1145	N27	E14	.426	16373	20.5	55	-B	2 C	1112	150	1.7		EI
CATA	19	1055	1105	1135	N29	E15	.460	16373	20.6	40	1B	2 C	1105	224	2.6		
BERN	19	1059	1105	1117	N30	E18	.496	16373	20.8	18	-N	C		120			
ABST	19	11180	1119	1136D	N28	E15	.447	16373	20.6	180	-N	P	1119	87	1.2		D
MONT	19	1120E	1122	1135	N29	E14	.453	16373	20.5	150	-F	C	1122	60			E
GRP78930	19	1100	1119+1	1145	N31	W30	.615	16366	17.2	45	-N			80	1.0		EV
			1127+1														
HTPR	19	1100	1120	1145	N29	W29	.589	16366	17.3	45	-N	* C	1120	70	.8		
ABST	19	11180	1119	1136D	N28	W29	.581	16366	17.3	180	-N	* P	1119	87	1.1		D
HTPR	19	1126	1128	1132	N34	W32	.657	16366	17.1	6	-F	* C	1128	30	.3		E
ABST	19	1126	1127	1136D	N33	W31	.640	16366	17.2	100	-N	* P	1127	87	1.2		DV
931 TELV	19	1146	1149	11490	N25	E13	.392	16373	20.5	30	-N	3 C		163	1.7		V ZX



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
GRP78957	20	0552+3	0556+1	0634	N27	E04	.372	16373	20.5	42	2N			710	7.7	E	
CULG	20	0552	0556	0607D	N27	E04	.372	16373	20.5	150	1N	C	0556	350	3.9		
KODA	20	0554E	0557	0628	N26	E03	.353	16373	20.5	340	2N	P	0600	713	7.4	E	
PURP	20	0555	0557	0640	N27	E04	.372	16373	20.5	45	2N	C		981	10.5		
YUNN	20	0608E	0608	0620	N28	E04	.388	16373	20.6	120	1N	C		283	3.0	E	
CATA	20	0640E	0655	0655D	N26	W04	.356	16373	20.0	150	1N	1 P	0655	252	2.7		
GRP78958	20	0736+9	0741+4	0750	N30	W60	.878	16357	15.8	14	-B			60	1.3	E	
HTPR	20	0736	0741	0825	N30	W60	.878	16357	15.8	49	-B	C	0741	50	1.0	E	
YUNN	20	0740	0744	0746	N32	W60	.881	16357	15.8	6	-N	C		80	1.7		
CATA	20	0745	0745	0750	N28	W61	.882	16357	15.7	5	-B	2 C	0745	56	1.2		
959 CATA	20	0800	0805	0825	N28	W60	.875	16357	15.8	25	-N	2 C	0805	56	1.1	ZX	
GRP78960	20	0800+2	0805+0	0812	N33	W43	.749	16366	17.1	12	1F			140	2.2	E	
CATA	20	0800	0805	0810	N33	W43	.749	16366	17.1	10	1N	2 C	0805	140	2.1		
HTPR	20	0802	0805	0813	N34	W44	.762	16366	17.0	11	-F	C	0805	140	2.0	E	
GRP78961	20	0944+2	0945+7	1008	N26	E04	.356	16373	20.7	24	-N			70	.8	E	
WEND	20	0944		1010D	N27	E01	.367	16373	20.5	260	-F	V		160	1.9	T	
CATA	20	0945	0945	0955	N26	W03	.353	16373	20.2	10	-B	1 C	0945	112	1.2		
HTPR	20	0945	0949	1006	N27	E05	.375	16373	20.8	21	-N	C	0949	60	.6	E	
MONT	20	0946	0948	1008	N22	E05	.296	16373	20.8	22	-F	C	0948	50		E	
ATHN	20	0950E	0952U	1013	N25	E09	.364	16373	21.1	230	-B	3 C		48		DE	
962 CATA	20	1020	1025	1035	S15	E90	1.000	16384	27.2	15	?F	2 C	1025	56		ZX	
		IMP.1	NO	HTPR	BERN	MONT											
963 HTPR	20	1025	1028	1034	N30	W60	.878	16357	15.9	9	-F	C	1028	50	1.0	ZX	
GRP78964	20	1105+4	1111+6	1129	S06	W20	.391	16368	19.0	24	-F			110	1.2	E	
HTPR	20	1105	1111	1140	S06	W20	.391	16368	19.0	35	-F	C	1117	150	1.5	E	
MONT	20	1109	1111	1118	S07	W21	.413	16368	18.9	9	-N	C	1111	80		E	
GRP78965	20	1111+7	1113	1131	N30	W60	.878	16357	16.0	20	-F					Z	
HTPR	20	1111	1113	1132	N30	W61	.885	16357	15.9	21	-F	C	1113	20	.4	Z	
WEND	20	1118		1130	N31	W60	.879	16357	16.0	12	1F	V		140	3.4	Z	
966 HTPR	20	1123	1126	1142	S12	E29	.555	16379	22.6	19	-F	C	1126	60	.7	E	
966 HTPR	20	1123	1126	1142	S12	E29	.555	16379	22.6	19	-F	C	1126	60	.7	E	
GRP78967	20	1144+8	1155+5	1242	N26	E01	.351	16373	20.6	58	1B					I	
			1215+1														
HTPR	20	1144	1146	1155	N26	E06	.363	16373	20.9	11	-F	C	1146	20	.2		
BERN	20	1147	1216	1240	N28	W02	.384	16373	20.3	53	-N	C		180			
WEND	20	1151	1155	1248	N27	E01	.367	16373	20.6	57	1N	V	1202	440	5.1	T	
MONT	20	1151	1156	1156D	N28	E04	.388	16373	20.8	50	-N	C	1156	70			
HTPR	20	1151	1158	1255	N27	E02	.368	16373	20.6	64	-B	C	1158	150	1.7	EI	
RAMY	20	1152	1155	1233	N26	W01	.351	16373	20.4	41	1B	3 C		210		F	
ATHN	20	1153E	1155U	1230	N24	E08	.343	16373	21.1	370	-B	3 C		127		F	
CATA	20	1200	1200	1250D	N27	W01	.367	16373	20.4	50D	2B	2 P	1200	562	6.2		
LVOV	20	1214	1215	1238	N24	W02	.319	16373	20.4	24	1N	P	1215	400	4.4	BEI	
968 RAMY	20	1237	1237	1243	N31	W42	.730	16366	17.4	6	-N	3 C		21		ZX	
969 HTPR	20	1258		1308D	N21	E05	.280	16373	20.9	100	-F	C	1302	20	.2	ZX	
970 HTPR	20	1325		1359D	N26	E15	.423	16378	21.7	340	-F	C	1334	20	.2	ZX	
971 HUAN	20	1356		1358	N24	W01	.318	16373	20.5	2	-F	1 C				ZX	
GRP78972	20	1424+0	1425+0	1428	N25	W63	.893	16357	15.9	4	-F			25	.6		
HUAN	20	1424	1425	1428	N26	W64	.901	16357	15.8	4	-F	1 C	1425	30			
RAMY	20	1424	1425	1428	N24	W63	.892	16357	15.9	4	-N	3 C		24			
GRP78973	20	1439+1	1441+4	1505	N26	W01	.351	16373	20.5	26	-N			190	2.0		
HUAN	20	1439	1443	1520	N27	E00	.367	16373	20.6	41	-N	2 C	1443	165	1.8	E	
WEND	20	1440	1445	1506	N27	W01	.367	16373	20.5	26	1N	V	1445	300	3.5	T	
RAMY	20	1440	1441	1503	N26	W02	.352	16373	20.5	23	-B	3 C		162		DE	
HOLL	20	1440	1441U	1503	N26	W02	.352	16373	20.5	23	-N	1 C		150		F	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CWP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP78974	20	1511>9	1522+3	1601	N27	W02	.368	16373	20.5	50	-N			170	1.8		
BERN	20	1511	1524	1545	N28	W04	.388	16373	20.3	34	-N	C		130			
WEND	20	1518	1525	1558	N27	W02	.368	16373	20.5	40	1N	V	1525	280	3.2	T	
RAMY	20	1520	1522	1602	N27	W02	.368	16373	20.5	42	-B	3 C		173		DE	
HUAN	20	1521		1603	N25	W03	.337	16373	20.4	42	-N	1 C	1523	120	1.3	E	
HOLL	20	1522	1522	1617	N27	W02	.368	16373	20.5	55	1N	2 C		211		F	
975	RAMY	20	1546	1546	1553	N27	H66	.915	16357	15.7	7	-N	3 C		13		ZX
976	RAMY	20	1658	1700	1706	N24	H66	.913	16357	15.8	8	-N	3 C		22		ZX
977	HOLL	20	1734	1737	1742	S09	E26	.495	16379	22.7	8	-F	3 C		19		ZX
GRP78978	20	1824+0	1828+1	1934	N26	W02	.352	16373	20.6	70	2B			900	9.6	UZ	
HOLL	20	1824	1829	1931	N26	W01	.351	16373	20.7	67	2B	3 C		916		UOE	
RAMY	20	1824	1828	1937D	N26	W04	.356	16373	20.5	73D	2B	3 C		890		ZOE	
	20	1840	1912	NO FLARE PATROL													
GRP78979	20	2005+6	2014+5	2033	N28	H65	.909	16357	16.0	28	-F			45		E	
HOLL	20	2005	2014	2033	N26	H66	.914	16357	15.9	28	-N	3 C		48			
HUAN	20	2011		2025	N29	H65	.910	16357	16.0	14	-F	1 C	2014	40		E	
PALE	20	2016E	2019	2033	N30	H66	.917	16357	15.9	17D	-F	3 C		60		OE	
RAMY	20	2022E	2022U	2042D	N27	H65	.908	16357	16.0	20D	-F	3 C		11			
GRP78980	20	2013>9	2036	2138	N26	W02	.352	16373	20.7	85	-N						
			2104														
HOLL	20	2013	2036	2155	N26	W02	.352	16373	20.7	102	-N	3 C		61			
PALE	20	2052	2104	2128	N26	W06	.363	16373	20.4	36	-F	3 C		67		FDE	
CULG	20	2055E	2055U	2119	N28	W05	.391	16373	20.5	24D	1N	C	2055	300	3.3		
CULG	20	2117	2122	2138	N27	E03	.370	16373	21.1	21	-N	C	2122	150	1.6		
GRP78981	20	2212+2	2217+4	2309	N19	E52	.792	16381	24.8	57	2N					LUV	
CULG	20	2212	2219	2308	N19	E53	.802	16381	24.9	56	2B	C	2219	650	11.2	VL	
HOLL	20	2214	2221	2309	N23	E52	.799	16381	24.8	55	2N	3 C		1024		UOE	
PALE	20	2215E	2217	2344D	N19	E52	.792	16381	24.8	89D	1N	3 C		354		U F	
GRP78982	20	2222>9	2231	2255	N28	W05	.391	16373	20.6	33	1F					EHJL	
			2252														
CULG	20	2222	2231	2249	N28	W07	.398	16373	20.4	27	1N	C	2231	230	2.5	LH	
VORO	20	2243	2244	2259	N27	W06	.379	16373	20.5	16	1F	C	2244	188	2.0	EJ	
VORO	20	2252	2252	2300	N28	E01	.383	16373	21.0	8	1F	C	2252	197	2.1	EHJ	
983	TELV	21	0121	0124	0147D	N23	H11	.351	16373	20.2	26D	-B	1 C		163	1.7	UV ZX
984	PURP	21	0351E	0351	0351D	N28	W04	.389	16373	20.9		?N	C				ZX
			IMP.1 NO HITK		CULG												
985	CULG	21	0351	0357	0459	S30	E07	.588	16374	21.7	68	-N	* C	0357	140	1.6	H ZX
GRP78986	21	0452+6	0458+4	0527	N27	W06	.380	16373	20.8	35	-N			180	2.0	E	
PURP	21	0452	0458	0527	N28	W05	.392	16373	20.8	35	1N	C					
YUNN	21	0455	0458	0516	N28	W06	.395	16373	20.8	21	-B	C		145	1.6	E	
MANI	21	0458	0502	0506D	N27	W06	.380	16373	20.8	8D	-N	3 C		180		F	
TACH	21	0500E		0528	N27	W08	.389	16373	20.6	28D	1F	C	0507	317	3.5	E	
GRP78987	21	0517+3	0523+1	0532	N28	H73	.954	16357	15.7	15	-F			70		DH	
CULG	21	0517	0523	0536	N29	H73	.954	16357	15.7	19	-F	C	0523	60		HT	
TACH	21	0520	0524	0528	N27	H74	.958	16357	15.7	8	-N	C	0524	78		O	
988	PURP	21	0550		0558	N28	W05	.392	16373	20.9	8	-N	P				H ZX
GRP78989	21	0624	0635+3	0653	N29	H51	.805	16366	17.4	29	-N			70	1.2	EJ	
ABST	21	0624	0638	0650	N29	H52	.813	16366	17.4	26	-N	C	0638	87	1.5	EJ	
CATA	21	0635E	0635	0655	N30	H50	.799	16366	17.5	20D	-N	2 P	0635	56	.9		
GRP78990	21	0625	0635+2	0655	N21	W06	.286	16373	20.8	30	-F					F	
CULG	21	0625	0637	0654	N23	W07	.323	16373	20.7	29	-F	C	0637	160	1.7	F	
CATA	21	0635E	0635	0655	N20	W05	.265	16373	20.9	20D	-N	2 P	0635	56	.6		
991	CULG	21	0633	0645	0732	S14	H64	.916	16365	16.5	59	-F	C	0645	50		ZX
GRP78992	21	0647>9	0652+7	0732	N26	H10	.386	16373	20.5	45	1N					J	
			0712														
ABST	21	0647	0658	0740	N26	H11	.393	16373	20.5	53	-N	* C	0658	174	1.9	DJ	
PURP	21	0652	0700	0723	N28	W06	.395	16373	20.8	31	1N	* C					
CATA	21	0655	0705	0750	N26	H11	.393	16373	20.5	55	1N	* C	0705	196	2.2		
YUNN	21	0657	0712	0715	N26	H10	.386	16373	20.5	18	1N	* C		361	4.0	E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPROVANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
993 CATA	21	0900	0905	0930	N29	W15	.462	16373	20.3	30	?N	2	C	0905	224	2.6	ZX	
		IMP.1 NO : YUNN																
994 CATA	21	1035	1040	1110	N08	W33	.543	16368	19.0	35	1N	2	C	1040	224	2.8	ZX	
995 RAMY	21	1122	1125	1132	N25	W13	.394	16373	20.5	10	-F	3	C		20		ZX	
GRP78996	21	1216+4	1219+3	1305	N30	W77	.970	16357	15.7	49	18							
			1235															
RAMY	21	1215	1219	1305	N28	W72	.949	16357	16.1	49	-B	3	C		32		DE	
ATHN	21	1218E	1222U	1302D	N33	W80	.981	16357	15.5	44D	18	3	C		95		DE	
CATA	21	1220	1235	1250D	N30	W77	.970	16357	15.7	30D	2N	2	P	1235	196			
GRP78997	21	1324+0	1329+2	1431	N26	W15	.424	16373	20.4	67	18				320	3.5		
HUAN	21	1324	1331	1431	N26	W15	.424	16373	20.4	67	1N	2	C	1331	360	4.1	E	
RAMY	21	1324	1329	1415D	N26	W09	.380	16373	20.9	51D	18	3	C		387			
ATHN	21	1328E	1330U	1345D	N27	W18	.463	16373	20.2	17D	18	3	C		206		F	
998 HUAN	21	1451	1454	1454	N24	W15	.399	16373	20.5	3	-N	1	C	1454	60	.6	ZX	
999 HUAN	21	1541		1547	N26	W54	.823	16366	17.6	6	-F	1	C				ZX	
0 BIGB	21	1644	1645	1712	N31	W80	.980	16357	15.7	28	-N	1	C	1645	40		ZX	
1 HUAN	21	1824E		1827	N24	E70	.937	16386	27.0	3D	-F	1	P				E ZX	
GRP79002	21	1846	1848	1924	S12	E27	.530	16379	23.8	38	-N				80	.9	E	
BIGB	21	1846	1848U	1924	S12	E27	.530	16379	23.8	38	-N	1	P	1848	90	1.0		
HUAN	21	1847E		1849D	S12	E27	.530	16379	23.8	2D	-N	1	P	1849	65	.7	E	
3 BIGB	21	2009	2010	2028	N32	W80	.980	16357	15.8	19	-B	1	C	2010	20		ZX	
4 CULG	21	2101	2123	2218	N28	W15	.449	16373	20.8	77	?N		C	2123	260	2.9	UF ZX	
		IMP.1 NO : BIGB PALE																
5 CULG	21	2105	2111	2124	N41	W79	.979		16.0	19	-F		C	2111	30		ZX	
6 PALE	21	2106	2116	2143	N14	W26	.454	16368	19.9	37	-F	3	C		57		U F ZX	
7 CULG	21	2108	2129	2218	S18	E13	.449	16375	22.9	70	?F		C	2129	280	2.9	F ZX	
		IMP.1 NO : BIGB PALE																
8 CULG	21	2125	2129	2138	N15	E62	.880	16386	26.5	13	-F		C	2129	30	.6	ZX	
9 CULG	21	2126	2140	2206	S06	W41	.676	16368	18.8	40	-N		C	2140	140	1.8	ZX	
10 CULG	21	2251	2258	2304U	S22	W25	.598		20.1	13D	-N		C	2258	80	.9	ZX	
11 CULG	21	2252	2257	2303U	S07	W42	.691	16368	18.8	11D	-F		C	2257	30	.4	ZX	
12 CULG	21	2338	2346	0003	S06	W42	.688	16368	18.8	25	?F		C	2346	160	2.1	ZX	
		IMP.1 NO : BIGB																
GRP79013	22	0024>9	0105	0110D	N22	W17	.397	16373	20.7	46	-F						E	
CULG	22	0024	0113	0215U	N24	W19	.440	16373	20.6	111D	-N		C	0113	190	1.9		
VORO	22	0104	0105	0110	N20	W15	.353	16373	20.9	6	-F		C	0105	134	1.4	E	
GRP79014	22	0048+8	0057>9	0123	N10	E67	.917	16386	27.1	35	-N						F	
CULG	22	0048	0107	0210	N10	E68	.924	16386	27.1	82	1N		C	0107	180		F	
PALE	22	0054	0105	0142	N12	E67	.917	16386	27.1	48	1N	3	C		193		F	
PALE	22	0054	0057	0107	N12	E67	.917	16386	27.1	13	1N	3	C		193		F	
PURP	22	0055E	0055	0114	N10	E64	.895	16386	26.8	19D	-F		P					
VORO	22	0056	0105	0114	N10	E70	.936	16386	27.3	18	-N		C	0105	72		E	
HANI	22	0100E	0100U	0110	N11	E67	.917	16386	27.1	10D	-N	3	C		50			
15 VORO	22	0208	0210	0218	N20	W40	.663	16368	19.1	10	-F		C	0210	108	1.4	DM ZX	
16 CULG	22	0336	0341	0352	S14	W78	.984	16365	16.3	16	-F		C	0341	60		ZX	
GRP79017	22	0519+2	0524+1	0539	S16	W15	.438	16377	21.1	20	-N							
CULG	22	0519	0524	0550	S16	W17	.457	16377	20.9	31	1N		C	0524	280	3.1		
PURP	22	0521	0525	0528	S16	W14	.429	16377	21.2	7	-N		C					
18 CULG	22	0525	0527	0535	S14	W79	.987	16365	16.3	10	-F		C	0527	20		ZX	



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP79019	22	0630+7	0630+8	0649	N26	W16	.434	16373	21.1	19	-N			80	.9			
YUNN	22	0630E	0630	0644	N26	W15	.425	16373	21.1	140	-N			64	.7			
MANI	22	0632E	0634	0653	N26	W16	.434	16373	21.1	210	-N	3	C	100				
PURP	22	0637	0638	0649	N27	W18	.464	16373	20.9	12	1B							
GRP79020	22	0636+1	0639+0	0644	S12	E16	.399	16379	23.5	8	-N					L		
CULG	22	0636	0639	0647	S11	E14	.366	16379	23.3	11	-N		C	0639	90	1.0	L	
PURP	22	0637	0639	0641	S13	E18	.432	16379	23.6	4	-N							
21	MONT	22	0921	0922	0926	N28	W20	.494	16373	20.9	5	-F		C	0922	60		E ZX
22	MONT	22	1011	1012	1017	N28	W21	.503	16373	20.8	6	-F		C	1012	50		E ZX
23	MONT	22	1036	1038	1047	N28	W21	.503	16373	20.9	11	-F		C	1038	60		E ZX
24	MONT	22	1040	1041	1044	N29	W66	.917	16366	17.5	4	-F		C	1041	60		ZX
		22	1225	1235	NO FLARE PATROL													
25	RAMY	22	1258	1301	1314	N26	W25	.524	16373	20.7	16	-N	3	C		37		F ZX
		22	1314	1324	NO FLARE PATROL													
26	RAMY	22	1335	1335	1402	S10	E00	.264	16379	22.6	27	-F	3	C		21		ZX
27	RAMY	22	1354	1355	1408	N26	W25	.524	16373	20.7	14	-F	3	C		34		ZX
		22	1357	1510	NO FLARE PATROL													
28	RAMY	22	1410	1419	1502D	N12	E56	.826	16386	26.8	52D	-F	3	C		51		ZX
29	BIGB	22	1510E	1514	1544	N11	E58	.844	16386	27.0	34D	-F	1	P	1514	20	.4	ZX
30	RAMY	22	1536	1536	1544	N29	W83	.989	16366	16.4	8	-B	3	C				ZX
GRP79031	22	1541+1	1543+1	1611	N27	W24	.523	16373	20.9	30	-B							
RAMY	22	1541	1543	1623	N26	W26	.535	16373	20.7	42	-B	3	C		85		DE	
BIGB	22	1542	1544	1558	N29	W23	.532	16373	20.9	16	-B	1	C	1544	20	.2		
GRP79032	22	1713+6	1721+1	1733	N31	W75	.963	16366	17.1	20	-N				30		F	
			1728															
RAMY	22	1713	1728	1731	N29	W84	.991	16366	16.4	18	-F	3	C		15			
BIGB	22	1718	1721	1738	N31	W75	.963	16366	17.1	20	-B	1	C	1721	40			
PALE	22	1719	1722	1733	N32	W75	.963	16366	17.1	14	-N	3	C		16		F	
GRP79033	22	1808+0	1810+1	1822	N19	W50	.772	16368	19.0	14	-N				35	.6		
BIGB	22	1808	1811	1825	N20	W50	.774	16368	19.0	17	-N	1	C	1811	40	.6		
RAMY	22	1808	1810	1818	N18	W50	.771	16368	19.0	10	-N	3	C		25			
GRP79034	22	1810+9	1820+5	1844	N27	W27	.554	16373	20.7	34	-N				70	.8	U	
RAMY	22	1810	1820	1920	N27	W27	.554	16373	20.7	70	-B	3	C		85		FDE	
PALE	22	1810	1825	1844	N27	W27	.554	16373	20.7	34	-N	3	C		83		U F	
BIGB	22	1819	1822	1834	N30	W25	.561	16373	20.9	15	-N	2	C	1822	40	.5		
35	RAMY	22	1816	1829	1857	N29	W85	.993	16366	16.4	41	-F	3	C		25		ZX
36	PALE	22	1904	1904	1920	N27	W27	.554	16373	20.8	16	-F	3	C		20		F ZX
37	RAMY	22	1905	1917	1925	N28	W78	.974	16366	16.9	20	-F	3	C				ZX
		22	1940	1948	NO FLARE PATROL													
GRP79038	22	2030+1	2032	2129	N12	E55	.816	16386	27.0	59	-N				50	.9	HU	
			2037>9															
HOLL	22	1726	2047	2048D	N14	E57	.836	16386	27.0	202D	1N	3	C		364		U	
BIGB	22	2030	2037	2104D	N18	E55	.816	16386	27.0	34D	-N	1	P	2037	50	.9		
RAMY	22	2031	2032	2118	N12	E53	.796	16386	26.8	47	-N	3	C		45			
PALE	22	2041E	2042U	2111D	N12	E55	.816	16386	27.0	30D	-N	3	C		28		U H	
HOLL	22	2046	2051	2140	N14	E57	.836	16386	27.1	54	1N	*	C		229		U	
39	RAMY	22	2107	2109	2120	N26	W29	.567	16373	20.7	13	-F	3	C		29		ZX
40	HOLL	22	2219	2219	2252	S10	W03	.269	16379	22.7	33	-N	3	C		95		ZX
41	VORO	22	2349	2349	2351	N28	W30	.593	16373	20.7	2	-F		C	2349	45	.6	D ZX
42	PURP	23	0026	0040	0047	N27	W31	.597	16373	20.7	21	?N		C				ZX
			IMP.1	NO	: HITK													

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST											
43 VORO	23	0132	0136	0150	S16	W28	.572	16377	21.0	18	?F	C	0136	179	2.2	DGH ZX	
		IMP.1	NO :	MITK													
44 CULG	23	0259	0302	0340	N22	E26	.503	16381	25.1	41	D	?N	P	0302	220	2.4	ZX
		IMP.1	NO :	PURP													
45 CULG	23	0318	0328	0341	N27	W39	.682	16373	20.2	23	0	-F	P	0328	60	.8	ZX
46 CULG	23	0357	0401	0411	N29	W80	.981	16366	17.2	14		?F	C	0401	100		ZX
		IMP.1	NO :	PURP		YUNN											
GRP79047	23	0518E	0526	0527	N26	W37	.656	16373	20.4	9		-N					J
ABST	23	0518E	0526	0527	N27	W36	.651	16373	20.5	90		-N	P	0526	87	1.2	O
ABST	23	0522E	0526	0527	N26	W39	.677	16373	20.3	50		-N	P	0526	87	1.3	OJ
GRP79048	23	0558	0605	0610	N27	W34	.629	16373	20.7	12		-N					
PURP	23	0558	0605	0656	N25	W34	.617	16373	20.7	58		1F	C				
YUNN	23	0559E	0559	0610	N30	W34	.649	16373	20.7	110		-N	C		32	.4	
49 ABST	23	0729E	0732	0737	N26	W41	.699	16373	20.2	80		-N	P	0732	87	1.3	DJ ZX
50 KHAR	23	0915E		0920	S14	E44	.740	16384	26.7	50		-F	V	0915			O ZX
51 KHAR	23	0915E		0945	S12	E02	.298	16379	23.5	300		-F	* P	0920			BE ZX
52 KHAR	23	0930E		0938	S18	E90	1.000	16388	30.1	80		-F	P	0935			DH ZX
GRP79053	23	1045>9	1045	1110	N19	W54	.812	16368	19.4	25		-N					
			1105														
CATA	23	1045	1045	1105	N20	W57	.841	16368	19.2	20		1N	2 C	1045	112	2.1	
CATA	23	1100	1105	1115	N18	W51	.781	16368	19.6	150		-N	2 P	1105	56	.9	
54 CATA	23	1245	1245	1250	N10	E50	.763	16386	27.3	50		-N	2 P	1245	56	.8	ZX
55 BIGB	23	1625	1627	1643	S12	E03	.301	16379	23.9	180		-N	1 P	1627	60	.6	ZX
	23	1643	1717	NO FLARE PATROL													
56 BIGB	23	1728	1730	1748	N26	W64	.902		18.9	20		-N	1 C	1730	60	1.4	ZX
57 HOLL	23	1818	1824	1918	N15	E44	.699	16386	27.1	60		-B	3 C		146		F ZX
58 BIGB	23	1839	1843	1853	N28	W56	.845	16373	19.6	14		-N	1 C	1843	40	.7	ZX
59 BIGB	23	1851	1853	1907	N26	W44	.730	16373	20.5	16		-N	1 C	1853	60	.9	ZX
60 BIGB	23	1930	1931	1943	N26	W44	.730	16373	20.5	13		-N	1 C	1931	60	.9	ZX
61 HOLL	23	2026	2034	2127	S13	E45	.746	16384	27.2	61		-B	3 C		96		U F ZX
GRP79062	23	2111	2116	2136	N17	E34	.578	16386	26.4	25		1N					
CULG	23	2111	2116	2138	N16	E35	.587	16386	26.5	27		1N	C	2116	160	2.0	
HOLL	23	2123E	2123U	2133	N18	E34	.582	16386	26.4	100		-F	3 C		55		
63 HOLL	23	2141	2147	2154	S15	E44	.744	16384	27.2	13		-F	3 C		18		ZX
64 CULG	23	2155	2158	2203	S14	E79	.987	16388	29.8	8		-N	C	2158	40		G ZX
65 HOLL	23	2201	2202	2218	S19	E44	.762	16384	27.2	17		-F	3 C		17		ZX
GRP79066	23	2221+1	2224	2234	S17	E38	.690	16384	26.8	13		-N					
BIGB	23	2221	2224	2234	S19	E33	.650	16384	26.4	13		-N	2 C	2224	30	.4	
HOLL	23	2222	2236	2310	S15	E44	.744	16384	27.2	48		-N	3 C		25		
67 CULG	23	2346	2401	0012	S48	W08	.806		23.4	26		-F	C	2401	30	.5	G ZX
68 PURP	24	0014	0019	0034	S12	W07	.318	16379	23.5	20		-F	C				ZX
69 PURP	24	0015	0019	0036	N27	W42	.714	16373	20.9	21		-F	P				ZX
70 PURP	24	0241	0252	0328	N10	E37	.601	16386	26.9	47		?N	C				ZX
		IMP.1	NO :	YUNN													
71 PURP	24	0350E		0350	S21	E41	.743	16384	27.2			-N	P				ZX

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST.											
72 YUNN	24	0539	0541	0545	S21	E41	.743	16384	27.3	6	-N	C		64	1.0	ZX	
GRP79073	24	0633+3	0638+2	0645	S21	E39	.723	16384	27.2	12	-N			90	1.3	E	
PURP	24	0633	0640	0643	S21	E40	.733	16384	27.3	10	-F	C					
ATHN	24	0635	0638	0650	S18	E39	.706	16384	27.2	15	-N	1	0638	98	1.3		
YUNN	24	0636	0640	0645	S21	E38	.714	16384	27.1	9	-N	C		80	1.2	E	
74 MONT	24	0752E	0754	0853	N14	W55	.817	16390	20.2	610	-F	C	0754	60		E ZX	
75 PURP	24	0802E	0802	0805	S21	E39	.723	16384	27.3	3D	-F	C				ZX	
76 YUNN	24	0807	0810	0814	S20	E36	.687	16384	27.0	7	-N	C		80	1.1	E ZX	
77 WEND	24	0845		0856	S18	E36	.674	16384	27.1	11	-F	V	0850	100	1.3	ZX	
GRP79078	24	1019+1	1020+2	1038	S11	W11	.334	16379	23.6	19	-N					E	
MONT	24	1019	1022	1035	S10	W11	.321	16379	23.6	16	-F	C	1022	60		E	
CATA	24	1020	1020	1040	S12	W11	.348	16379	23.6	20	-B	2	C	1020	168	1.8	
79 MONT	24	1029	1035	1058	N25	W58	.856	16373	20.1	29	-N	C	1035	70		ZX	
80 MONT	24	1106	1125	1143	S17	E39	.700	16384	27.4	37	-N	C	1125	100		E ZX	
GRP79081	24	1145+6	1147+4	1205	N24	W58	.855	16373	20.1	20	-F			40	.8		
MONT	24	1145	1147	1152	N25	W58	.856	16373	20.1	7	-F	C	1147	50			
RAMY	24	1151	1151	1217	N24	W58	.855	16373	20.1	26	-F	3	C	33			
82 HUAN	24	1318		1321D	S18	E38	.695	16384	27.4	30	-F	1	P	1320	35	.4	ZX
GRP79083	24	1349	1352	1357	S17	E36	.668	16384	27.3	8	-F			35	.5		
RAMY	24	1349	1352	1357	S17	E35	.657	16384	27.2	8	-F	3	C	40			
HUAN	24	1350E		1357	S18	E38	.695	16384	27.4	70	-F	1	P	1354	30	.4	
84 HOLL	24	1456E	1459U	1521	N21	W58	.851	16373	20.3	250	-F	2	C		15		ZX
85 HUAN	24	1458E		1505D	S15	E38	.678	16384	27.5	70	-F	1	P				ZX
86 RAMY	24	1539	1541	1603	N12	W60	.863	16390	20.2	24	-F	3	C		20		ZX
87 HOLL	24	1545	1602	1716	N22	W58	.852	16373	20.3	91	?N	3	C		135		ZX
		IMP.1 NO : BIGB															
88 RAMY	24	1553	1553	1601	S29	W39	.774	16374	21.7	8	-F	3	C		21		ZX
GRP79089	24	1555+0	1556+1	1628	S16	E36	.662	16384	27.4	33	-N			80	1.1	FU	
HOLL	24	1555	1557	1631	S17	E38	.690	16384	27.5	36	-N	2	C	70		U F	
RAMY	24	1555	1556	1625	S16	E35	.651	16384	27.3	30	-B	3	C	85			
90 RAMY	24	1607	1621	1656	S29	W39	.774	16374	21.7	49	-N	3	C		46		ZX
91 PALE	24	1728	1728	1731	N24	W63	.893	16373	20.0	3	-F	3	C		27		ZX
92 HOLL	24	1739	1741	1748	S15	E34	.633	16384	27.3	9	-N	3	C		29		ZX
93 HOLL	24	1818	1818	1842	S17	E32	.624	16384	27.2	24	-F	3	C		24		F ZX
94 HOLL	24	1823	1824	1836	N25	W66	.914	16373	19.8	13	-F	3	C		29		ZX
GRP79095	24	1840+9	1842	1912	N25	W59	.864	16373	20.4	32	-F						FU
			1852														
HOLL	24	1840	1842	1924	N26	W55	.833	16373	20.7	44	-N	* C		37		U	
PALE	24	1851	1852	1859	N24	W64	.900	16373	20.0	8	-F	* C		24		F	
96 HOLL	24	1844	1857	1916	S17	E32	.624	16384	27.2	32	-F	3	C		23		ZX
97 BIGB	24	1851	1851	1904	S20	E60	.899	16388	29.3	13	-N	1			50	1.0	T ZX
GRP79098	24	1927+1	1931+1	1952	N24	W63	.893	16373	20.1	25	-N			50	1.2	FH	
BIGB	24	1927	1931	1952	N24	W57	.888	16373	20.5	25	-N	1		50	.9	TH	
HUAN	24	1928		1936D	N24	W63	.893	16373	20.1	80	-N	1	P	1932	40		
PALE	24	1928	1932	1942D	N24	W63	.893	16373	20.1	14D	-F	3	C		60		F
99 HOLL	24	2051	2053	2108	N25	W68	.927	16373	19.8	17	-F	3	C		15		ZX

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP79100	24	2057+5	2110 2133+3	2200	S18	E33	.642	16384	27.3	71	-N						
HOLL	24	2057	2136	2208	S16	E33	.628	16384	27.3	71	-B	3	C		110		DE
HOLL	24	2057	2136	2139	S16	E33	.628	16384	27.3	42	-B	3	C		110		DE
CULG	24	2102	2110U	2141U	S18	E33	.642	16384	27.4	390	-F		C	2110	120	1.6	T
PALE	24	2119	2133U	2141D	S18	E32	.631	16384	27.3	220	1N	3	C		253		FDE
GRP79101	24	2139+3	2142+1	2148	N13	H62	.880	16390	20.3	9	-F				30	.6	
CULG	24	2139	2143	2148	N16	H63	.888	16390	20.2	9	-F		C	2143	40	.9	
HOLL	24	2142	2142	2148	N10	H62	.879	16390	20.3	6	-N	3	C		21		
102 PALE	24	2145E	2145U	2201D	S20	E51	.830		28.7	160	-F	3	C		59		DE ZX
GRP79103	24	2218	2221	2249	N41	E02	.586		25.1	31	-N						W
BIGB	24	2218	2221	2249	N38	E05	.547		25.3	31	-N	1			33	.3	
BIGB	24	2219	2222	2234	N44	H01	.627		24.9	15	-N	1			33	.3	W
104 HOLL	24	2221	2226	2234	S17	E26	.558	16384	26.9	13	-B	3	C		64		DE H ZX
105 CULG	24	2240E	2244	2303	S15	E36	.656	16384	27.6	230	?F		P	2244	300	3.9	HT ZX
		IMP.1 NO :	HOLL	BIGB	VORO												
106 HOLL	24	2242	2303	2333	N24	H65	.907	16373	20.1	51	-N	3	C		66		F ZX
107 BIGB	24	2246	2250	2250D	S23	E58	.893	16388	29.3	4	-N	1			33	.6	T ZX
108 HOLL	24	2311	2324	2334	S17	E29	.591	16384	27.1	23	-N	3	C		57		ZX
109 PURP	24	2334	2414	0017	S13	E38	.668		27.8	43	-F		C				ZX
110 PURP	24	2334	2415	0106	S29	H29	.696	16374	22.8	92	?F		C				ZX
		IMP.1 NO :	CULG	VORO													
111 CULG	25	0001	0007	0015	N12	E80	.982	16392	31.0	14	-F		C	0007	40		ZX
GRP79112	25	0011>9	0043+5	0111	S20	E28	.605	16384	27.1	60	2N						EHJ
PURP	25	0011	0044	0111	S20	E30	.625	16384	27.3	60	28	*	C		755	11.5	
CULG	25	0028	0048	0114	S21	E28	.614	16384	27.1	46	1N	*	C	0048	200	2.5	T
VORO	25	0033	0043	0100	S20	E28	.605	16384	27.1	27	2F	*	C	0043	448	5.6	EHJ
GRP79113	25	0118+5	0125 0140+6	0214	S29	H46	.827	16374	21.6	56	2F				400	6.9	EHJK
CULG	25	0118	0140	0252U	S28	H47	.830	16374	21.5	940	2F		C	0140	400	6.8	T
VORO	25	0123	0125	0214	S30	H48	.846	16374	21.5	51	2F		C	0138	403	7.7	EHJK
YUNN	25	0140	0146	0146D	S27	H45	.809	16374	21.7	60	-F		C		64	1.1	E
PURP	25	0145	015E	0211	S30	H44	.817	16374	21.8	26	2F		C		684	10.6	
114 CULG	25	0125	0143	0157	N12	E79	.979	16392	31.0	32	?F		C	0143	60		ZX
		IMP.1 NO :	PURP	VORO	YUNN	HITK											
GRP79115	25	0528+2	0533+3	0544	S30	H46	.832	16374	21.8	16	1F						E
PURP	25	0528	0536	0538	S30	H46	.832	16374	21.8	10	1F		C				
CULG	25	0530	0533	0559	S28	H48	.837	16374	21.6	29	1F		C	0533	120	2.0	
TACH	25	0532E		0544	S30	H46	.832	16374	21.8	120	2N		C	0532	291	5.2	E
116 MONT	25	1025	1032	1040	S19	E26	.576	16384	27.4	15	-F		C	1032	50		E ZX
117 RAMY	25	1230	1233	1242	S22	E24	.586	16384	27.3	12	-F	3	C		20		ZX
118 HOLL	25	1346E	1346U	1430	S19	E21	.526	16384	27.1	440	-F	2	C		102		ZX
GRP79119	25	1434>9	1438 1501+2	1511	S17	E21	.504	16384	27.2	37	-F				40	.5	
RAMY	25	1434	1438	1455	S17	E21	.504	16384	27.2	21	-F	*	C		101		
HOLL	25	1449	1503	1516	S17	E21	.504	16384	27.2	27	-N	*	C		43		
RAMY	25	1457	1501	1505	S17	E21	.504	16384	27.2	8	-F	*	C		43		
GRP79120	25	1453+4	1458+0	1505	S28	H49	.845	16374	21.9	12	-F				20	.4	
HOLL	25	1453	1458	1506	S30	H50	.860	16374	21.9	13	-F	3	C		15		
RAMY	25	1457	1458	1503	S27	H48	.833	16374	22.0	6	-F	3	C		21		
121 RAMY	25	1521	1535	1606	S17	E21	.504	16384	27.2	45	?F	3	C		98		ZX
		IMP.1 NO :	HOLL	BIGB													
GRP79122	25	1631>9	1631 1711	1729	S16	E20	.483	16384	27.2	58	-F						FU
HOLL	25	1631	1631	1735	S16	E20	.483	16384	27.2	64	-N	3	C		48		U F
BIGB	25	1708	1711	1722	S16	E20	.483	16384	27.2	14	-F	2	C	1711	50	.5	

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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	HALE PLAGE REGION	CMP. DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.										
GRP79123	25	1739+6	1746+1	1757	S31	W54	.890	16374	21.7	18	-F			50	1.1	
HOLL	25	1739	1746	1758	S31	W54	.890	16374	21.7	19	-N	3	C	46		
RAMY	25	1740	1746	1803	S31	W54	.890	16374	21.7	23	-F	3	C	59		
HUAN	25	1745	1747	1755	S35	W55	.909	16374	21.6	10	-F	1	C	1747	45	
BIGB	25	1745	1746	1756	S29	W57	.902	16374	21.5	11	-N	2	C	1746	30	.6
124 HOLL	25	1743	1803	1811	S16	E20	.483	16384	27.2	28	-F	3	C	30		ZX
125 HOLL	25	1804	1804	1813	N11	W76	.967	16390	20.1	9	-F	3	C			ZX
GRP79126	25	1846+1	1849+1	1902	N11	W78	.975	16390	19.9	16	-N			25		AD
HOLL	25	1846	1850	1901	N10	W76	.968	16390	20.1	15	-F	3	C			A
BIGB	25	1847	1849	1902	N14	W79	.979	16390	19.9	15	-N	3	C	1849	30	
HUAN	25	1849E		1855D	N11	W78	.975	16390	19.9	60	-N	1	P	1849	20	
GRP79127	25	1853+4	1901	1925	S18	E18	.487	16384	27.1	32	-N					H
			1908+1													
HOLL	25	1853	1909	1932	S18	E19	.496	16384	27.2	39	-B	*	C	161		DE H
PALE	25	1855	1908	1925D	S18	E18	.487	16384	27.1	30D	-N	*	C	35		FDE
BIGB	25	1857	1901	1918	S19	E19	.507	16384	27.2	21	-F	*	C	1901	100	1.1
HUAN	25	1903E		1915D	S18	E18	.487	16384	27.1	12D	-F	*	P	1906	45	.5
GRP79128	25	1854+1	1857+0	1924	S31	W55	.896	16374	21.7	30	-N			40	.9	
HOLL	25	1854	1857	2053	S31	W55	.896	16374	21.7	119	-B	3	C	47		
BIGB	25	1855	1857	1924	S29	W57	.902	16374	21.5	29	-N	3	C	1857	40	.8
PALE	25	1855	1857	1905	S31	W55	.896	16374	21.7	10	-N	3	C	20		DE
129 HOLL	25	1958	1958	2012	N15	E15	.305	16386	27.0	14	-F	3	C	55		ZX
GRP79130	25	2016	2022	2101	S29	W57	.902	16374	21.6	45	-N			50	1.1	K
			2046+2													
BIGB	25	2016	2022	2037	S29	W57	.902	16374	21.6	21	-N	*	C	2022	30	.6
CULG	25	2024U	2048	2057	S28	W60	.917	16374	21.4	33D	1F	*	C	2048	100	2.3
PALE	25	2030E	2043U	2043D	S31	W56	.902	16374	21.7	13D	-N	*	C	25		DE
BIGB	25	2044	2046	2104	S29	W57	.902	16374	21.6	20	-N	*	C	204E	50	.9
GRP79131	25	2017	2025	2124	S16	E17	.453	16384	27.1	67	1N			200	2.2	
			2047+1													
HOLL	25	2017	2025	2033	S16	E17	.453	16384	27.1	16	-N	3	C	32		
PALE	25	2030E	2056U	2126	S18	E18	.487	16384	27.2	56D	-N	3	C	104		FDE
CULG	25	2040	2048	2122	S15	E15	.422	16384	27.0	42	1N	C	C	2048	200	2.3
HOLL	25	2041	2047	2128	S15	E17	.442	16384	27.1	47	18	3	C	275		T
BIGB	25	2044	2048	2116	S17	E17	.465	16384	27.1	32	-N	3	C	2048	90	1.0
132 CULG	25	2040	2049	2058	N14	W79	.979	16390	19.9	18	-F		C	2049	40	
133 BIGB	25	2254	2255	2259	S28	W55	.886	16374	21.8	5	-F	3	C	2255	30	.5
134 CULG	25	2304	2320	2341	N30	W71	.946	16373	20.6	37	-F		C	2320	50	
GRP79135	25	2324+2	2326+1	2339	S19	E15	.473	16384	27.1	15	-N					
HOLL	25	2324	2326	2339	S20	E17	.502	16384	27.3	15	-B	3	C	75		DE
BIGB	25	2326	2327	2339	S19	E14	.465	16384	27.0	13	-N	2	C	2327	10	.1
136 CULG	25	2335	2341	2351	S30	W60	.922	16374	21.5	16	-F		C	2341	60	1.4
137 CULG	25	2346	2358	0018	N15	W80	.982	16390	20.0	32	-F		C	2358	50	
138 CULG	26	0037	0046	0113	S29	W61	.925	16374	21.5	36	?N		C	0046	140	
		IMP.1	NO	YUNN	PURP	VORO										
GRP79139	26	0054+3	0108+3	0115D	S07	W42	.690	16379	22.9	21	-N					EL
CULG	26	0054	0111U	0148U	S08	W42	.693	16379	22.9	54D	1F		C	0111	250	3.5
YUNN	26	0057	0108	0115	S06	W42	.686	16379	22.9	18	-N		C	80	1.1	E
140 CULG	26	0103	0109	0129	N30	W71	.946	16373	20.7	26	-F		C	0109	40	
141 CULG	26	0108	0116	0132	N26	W87	.996	16373	19.5	24	-F		C	011E	20	
142 PURP	26	0109	0113	0120	S20	E15	.485	16384	27.2	11	-F		C			ZX
143 CULG	26	0245	0251	0314	N26	W87	.996	16373	19.6	29	-N		C	0251	30	
GRP79144	26	0252+3	0253+5	0302	S19	E14	.464	16384	27.2	10	-F					F
PALE	26	0252	0253	0302	S19	E14	.464	16384	27.2	10	-F	3	C	25		F
PURP	26	0255	0258	0258D	S20	E15	.485	16384	27.2	3D	-F		P			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA			
					LAT.	MER. DIST.												Mill. of Disk	Sq. Deg.
145 PURP	26	0312	0320	0330	S23	E16	.531	16384	27.3	18	-F	C						ZX	
146 KANZ	26	0754	0756	0805	N27	W70	.939	16373	21.1	11	-B	1						ZX	
GRP79147	26	0845+1	0845+4	0854	N28	W80	.981	16373	20.4	9	-N							A	
KANZ	26	0845E	0845	0853	N26	W86	.995	16373	19.9	80	-B	1						A	
YUNN	26	0846	0849	0855	N30	W74	.960	16373	20.8	9	-F	C		16				A	
148 KANZ	26	0939E	0939	0943	S19	E10	.437	16384	27.2	40	-F	1						ZX	
149 KANZ	26	1014E	1014	1022	S16	E07	.376	16384	27.0	80	-F	1						ZX	
GRP79150	26	1111	1115+5	1126	S19	E09	.432	16384	27.1	15	-N				150	1.7		EL	
KANZ	26	1111	1115	1123	S19	E09	.432	16384	27.1	12	-B	1							
CATA	26	1115E	1120	1120D	S19	E10	.437	16384	27.2	50	-N	2	P	1120	140	1.6		EL	
ABST	26	1120E	1120	1128	S18	E08	.411	16384	27.1	80	-N	P	1120	174	1.9				
151 ABST	26	1120E	1123	1128	N13	W89	.999	16390	19.8	80	?N	P	1123	87			AD	ZX	
		IMP.1 NO :	MONT	KANZ															
152 ABST	26	1136	1138	1142D	N24	W80	.981	16373	20.5	60	?N	P	1138	87			D	ZX	
		IMP.1 NO :	MONT	KANZ															
153 LVOV	26	1211	1216	1230	S18	E10	.423	16384	27.3	19	1N	C	1216	200	2.3		E	ZX	
154 RAMY	26	1403	1404	1410	N26	W67	.922	16373	21.6	7	-F	3	C		35			ZX	
155 RAMY	26	1414	1415	1428	S17	E11	.415	16384	27.4	14	-F	3	C		40			ZX	
GRP79156	26	1438+2	1440	1459	N25	W74	.958	16373	21.1	21	-F								
			1448																
RAMY	26	1438	1440	1500	N26	W72	.949	16373	21.2	22	-F	3	C		29				
HOLL	26	1440	1448	1458	N24	W76	.967	16373	20.9	18	-F	3	C						
157 RAMY	26	1501	1502	1513	S17	E10	.408	16384	27.4	12	-N	3	C		71			ZX	
158 BIGB	26	1629	1630	1634	S19	E08	.426	16384	27.3	5	-N	2	C	1630	40	.4		ZX	
159 BIGB	26	1722	1723	1732	S19	E05	.414	16384	27.1	10	-N	2	C	1723	40	.4		ZX	
GRP79160	26	1817>9	1930	2019	S18	E05	.399	16384	27.1	122	-B							U	
			1950+9																
HOLL	26	1817	1959	2021	S18	E05	.399	16384	27.1	124	1B	3	C		214			UDE	
BIGB	26	1928	1930	1946	S19	E04	.412	16384	27.1	18	-N	2	C	1930	30	.3			
BIGB	26	1949	1950	2017	S19	E05	.414	16384	27.2	28	-N	2	C	1950	40	.4			
161 BIGB	26	1933	1935	1940	S30	W70	.968	16374	21.6	7	-F	2	C	1935	20			ZX	
162 HOLL	26	2001	2003	2018	S21	W31	.643	16379	24.5	17	-F	3	C		23			ZX	
163 BIGB	26	2029	2032	2035	S30	W70	.968	16374	21.6	6	-F	2	C	2032	30			ZX	
164 BIGB	26	2056	2059	2109	S30	W70	.968	16374	21.6	13	-N	2	C	2059	30			ZX	
165 MANI	26	2317E	2317U	2328D	S19	E03	.409	16384	27.2	110	-F	3	C		20			ZX	
GRP79166	26	2325+6	2332	2348	S29	W72	.974	16374	21.6	23	-F								
			2341																
CULG	26	2325	2341	2354	S29	W74	.980	16374	21.4	29	-F	C	2341	60					
BIGB	26	2331	2332	2341	S30	W70	.968	16374	21.7	10	-F	2	C	2332	40				
GRP79167	27	0019>9	0105+2	0136	S19	E02	.406	16384	27.2	77	-N								
PUPP	27	0019	0105	0145	S19	E01	.405	16384	27.1	86	1N	P							
CULG	27	0053	0107	0126	S19	E03	.408	16384	27.3	33	-F	C	0107	120	1.3				
168 CULG	27	0020	0030	0042	S30	W78	.991	16374	21.2	22	-F	C	0030	60				ZX	
169 CULG	27	0122	0137	0224	S32	W71	.973	16374	21.7	62	?F	C	0137	120			FK	ZX	
		IMP.1 NO :	HITK	PURP															
170 CULG	27	0245E	0250U	0309	S10	W65	.917	16379	22.2	240	-F	P	0250	80	1.5		L	ZX	
171 CULG	27	0350	0402	0411	S32	W72	.976	16374	21.8	21	?F	C	0402	180			L	ZX	
		IMP.1 NO :	PURP	YUNN															
172 PURP	27	0400	0402	0405	S19	W01	.405	16384	27.1	5	-F	C						ZX	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST											
173 PURP	27	0448	0452	0459	S30	W72	.975	16374	21.8	11	-F	P					ZX
174 PURP	27	0603	0607	0616	S19	W02	.406	16384	27.1	13	-F	C					ZX
	27	0900	1034														NO FLARE PATROL
	27	1047	1151														NO FLARE PATROL
	27	1209	1219														NO FLARE PATROL
	27	1231	1247														NO FLARE PATROL
	27	1501	1510														NO FLARE PATROL
175 BIGB	27	1704	1725	1945	S22	E35	.689	16388	30.3	161	-N	2 C	1725	110	1.3	G	ZX
176 BIGB	27	1727	1728	1735	N20	E70	.937	16398	2.0	8	-N	1 C	1728	30			ZX
GRP79177	27	1754+1	1755	1759	N17	E78	.975	16398	3.6	5	-F						E
BIGB	27	1754	1755	1758	N17	E78	.975	16398	2.6	4	-N	1 C	1755	40			E
HUAN	27	1755		1759	N10	E78	.975	16398	2.6	4	-F	1 C					
178 HUAN	27	1810		1814	N28	E90	.999	16399	3.5	4	-F	1 C	1812	20			D ZX
GRP79179	27	1920>9	1940+3	1949	N16	E74	.958	16398	3.4	29	-N			50			
PALE	27	1920	1943	1952	N17	E72	.948	16398	2.2	32	-N	3 C		70			
BIGB	27	1937	1940	1946	N15	E76	.967	16398	2.5	9	-B	2 C	1940	40			
GRP79180	27	2106+7	2114+0	2120	N17	E75	.962	16398	3.5	14	-N						
HOLL	27	2106	2114	2122	N20	E74	.958	16398	2.4	16	-N	3 C					
BIGB	27	2113	2114	2117	N15	E76	.967	16398	2.6	4	-N	2 C	2114	20			
181 CULG	28	0027	0035	0054	S20	W17	.498	16384	26.7	27	-F	C	0035	10	.1		ZX
182 CULG	28	0501	0510	0521	N13	E70	.936	16398	2.5	20	?F	C	0510	80			ZX
		IMP.1	NO	PURP		YUNN											
183 CULG	28	0647	0651	0707	S20	W20	.525	16384	26.8	20	-N	C	0651	80	1.0		ZX
184 CULG	28	0725	0730	0743	S20	W20	.525	16384	26.8	17	-F	C	0730	60	.7		ZX
185 CULG	28	0741	0743	0749D	N13	E66	.910	16398	2.3	80	-N	C	0743	40		T	ZX
	28	0905	1221														NO FLARE PATROL
	28	1227	1232														NO FLARE PATROL
186 BIGB	28	1749	1750	1755	N17	E64	.897	16398	2.5	6	-N	2 C	1750	30	.7		ZX
GRP79187	28	1923	1957	2032D	N14	W12	.259	16394	27.9	69	-F						D
			2009														
HOLL	28	1923	2009	2225	N14	W12	.259	16394	27.9	182	-F	3 C		54			
HUAN	28	1934E		1952D	N14	W12	.259	16394	27.9	180	-F	1 P	1945	20	.2		D
BIGB	28	1956	1957	2032	N14	W11	.246	16394	28.0	36	-F	2 C	1957	30	.3		
188 CULG	28	2024	2033	2054	S14	W30	.576	16384	26.6	30	-N	C	2033	120	1.4	KTH	ZX
189 CULG	28	2134	2140	2155	S16	W32	.614	16384	26.5	21	-N	C	2140	50	.6	H	ZX
190 BIGB	28	2151	2152	2201	S12	W74	.968	16379	23.4	10	-F	2 C	2152	30			ZX
191 CULG	28	2230	2236	2243	S16	W32	.614	16384	26.5	13	-F	C	2236	60	.8	HT	ZX
192 CULG	28	2251	2252	2255	S26	W40	.760		26.0	4	-N	C	2252	20	.2	G	ZX
193 BIGB	28	2303	2304	2322	N11	E90	1.000	16402	4.7	19	-N	2 C	2304	30			ZX
GRP79194	29	0000+7	0006+4	0044	N12	E26	.450	16392	30.9	44	-F						EGJ
VORO	29	0000	0006	0047	N14	E27	.472	16392	31.0	47	-F	C	0006	161	1.8		EJ
PURP	29	0007	0010	0040	N11	E26	.446	16392	31.0	33	-N	P					G
GRP79195	29	0028+3	0032+1	0047	N16	W30	.523	16386	26.8	19	-N						EJ
PURP	29	0013	0115	0117	N18	W32	.559	16386	26.6	64	-N	P					
PURP	29	0028	0032	0045	N16	W27	.482	16386	27.0	17	1N	C					
VORO	29	0031	0033	0047	N15	W30	.519	16386	26.8	16	-F	C	0033	134	1.5		EJ
GRP79196	29	0037+8	0045+1	0050	S16	W30	.590	16384	26.8	13	-N			120	1.5		DH
CULG	29	0037	0045	0059	S16	W34	.636	16384	26.5	22	-N	C	0046	140	1.8		HT
PURP	29	0045E	0045	0048	S16	W30	.590	16384	26.8	30	-F	C					
VORO	29	0045	0045	0050	S15	W24	.513	16384	27.2	5	-N	C	0046	108	1.3		DH

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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	HALE FLARE REGION	CMP DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST										
GRP79197	29	0048+8	0057+1	0104	N19	E54	.814	16398	3.1	16	-N			90	1.6	HU
CULG	29	0048	0058	0111	N19	E53	.805	16398	2.0	23	-N	C	0058	100	1.7	
VORO	29	0056	0057	0100	N20	E53	.806	16398	2.0	4	-N	C	0057	90	1.5	OH
PALE	29	0058E	0058U	0104D	N19	E56	.833	16398	2.2	60	1F	3 C		211		U
PURP	29	0059E	0059	0101	N18	E54	.813	16398	2.1	20	-N	C				
MANI	29	0101E	0101U	0107	N18	E56	.832	16398	2.2	60	-F	3 C		50		F
GRP79198	29	0112+1	0115+0	0118	S16	W29	.579	16384	26.9	6	-F			110	1.3	DH
YUNN	29	0112	0115	0117	S17	W34	.643	16384	26.5	5	-N	C		125	1.6	
VORO	29	0113	0115	0118	S15	W24	.513	16384	27.3	5	-F	C	0115	90	1.1	DH
GRP79199	29	0156+6	0202+4	0214	S15	W31	.595	16384	26.8	18	-N			120	1.5	EHK
PURP	29	0156	0203	0210	S16	W31	.602	16384	26.8	14	-N	C				
CULG	29	0200	0204	0230	S16	W34	.636	16384	26.5	30	-N	C	0204	140	1.8	HT
VORO	29	0201	0202	0214	S15	W24	.513	16384	27.3	13	-N	C	0202	116	1.5	EK
YUNN	29	0202	0206	0206D	S13	W32	.593	16384	26.7	4D	-N	C		96	1.2	
200 CULG	29	0404	0423	0508	S20	E43	.754	16397	1.4	64	?F	C	0423	180	2.7	ZX
		IMP.1	NO :	PURP												
201 CULG	29	0515	0528	0543	S17	W36	.665	16384	26.5	28	-N	C	0528	80	1.0	H ZX
	29	1010	1023	NO FLARE PATROL												
	29	1030	1111	NO FLARE PATROL												
	29	1114	1126	NO FLARE PATROL												
202 CATA	29	1125E	1125	1125D	N14	E58	.847	16398	2.8		2N	2 P	1125	449	8.7	ZX
203 RAMY	29	1208	1209	1219	S16	W36	.659	16384	26.8	11	-B	3 C		158		FOE ZX
204 KANZ	29	1415		1435	N14	W21	.386	16394	28.0	20	-F	1				ZX
205 HOLL	29	1505	1508	1522	N33	E70	.944	16399	3.9	17	-F	2 C		40		ZX
GRP79206	29	1521+2	1522+2	1530	S20	W40	.724	16384	26.6	9	-F			30	.4	
HOLL	29	1521	1522	1531	S22	W40	.736	16384	26.6	10	-F	3 C		27		
HUAN	29	1523	1524	1529	S19	W41	.729	16384	26.6	6	-F	1 C	1524	30	.4	
207 BIGB	29	1828	1832	1844	N12	E78	.976	16402	4.6	16	-N	1 C	1832	30		ZX
208 HUAN	29	1859	1901	1904	S12	E88	1.000	16401	5.4	5	-F	1 C	1901	15		D ZX
GRP79209	29	1931+4	1936+1	1942	N29	E68	.931	16399	4.9	11	-N			30		DG
BIGB	29	1931	1937	1945	N28	E68	.938	16399	3.9	14	-N	1 C	1937	60		G
HOLL	29	1932	1936	1942	N29	E66	.919	16399	3.8	10	-N	2 C		31		
HUAN	29	1935	1937	1940	N29	E70	.941	16399	4.1	5	-F	1 C	1937	15		D
GRP79210	29	1939+1	1941+2	2010	S16	E74	.970	16401	5.4	31	-B					F
HOLL	29	1939	1943	1954	S16	E78	.984	16401	4.7	15	-B	2 C				F
BIGB	29	1939	1941	2017	S16	E74	.970	16401	4.4	38	-B	1 C	1941	100		
HUAN	29	1940	1943	2010	S15	E72	.961	16401	4.2	30	-N	2 C	1943	140		
211 HUAN	29	1950	1951	1954	S19	W43	.749	16384	26.6	4	-F	1 C	1951	30	.4	ZX
212 CULG	29	2017E	2017E	2111	S30	W40	.784	16385	26.8	54D	?F	P	2017	160	2.2	B ZX
		IMP.1	NO :	BIGB												
213 CULG	29	2108	2117	2123D	N29	E69	.936	16399	4.1	150	-N	C	2117	70		ZX
214 CULG	29	2146	2210	2226	S30	W42	.800	16385	26.8	40	-F	C	2210	120	1.9	FKL ZX
215 CULG	29	2304	2308	2315	S17	W46	.770	16384	26.5	11	-N	C	2308	40	.6	ZX
216 CULG	29	2304	2310	2321	S09	E67	.928	16401	4.0	17	-F	C	2310	10	.1	ZX
217 CULG	29	2343	2354	0011	N18	E46	.730	16398	2.4	28	-N	C	2354	90	1.4	ZX
GRP79218	30	0116+9	0127+6	0151	N19	E44	.710	16398	3.4	35	-N			110	1.6	FHJK
CULG	30	0116	0127	0209	N18	E44	.708	16398	2.4	53	1N	* C	0127	140	2.0	FK
YUNN	30	0125	0133	0148	N18	E44	.708	16398	2.4	23	-N	* C		48	.7	
MANI	30	0127E	0128	0151D	N20	E44	.713	16398	2.4	24D	-N	* C		100		F
VORO	30	0129E		0151	N20	E43	.702	16398	2.3	22D	-N	* P	0130	116	1.6	EHJ
219 CULG	30	0119	0124	0134	N07	E69	.931	16402	4.2	15	-F	C	0124	20	.4	ZX
220 CULG	30	0123	0129	0143	N26	E60	.876	16399	3.6	20	-F	C	0129	40	.8	ZX



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg		
					LAT.	MER. DIST												
GRP79221	30	0154	0156	0204	N20	E44	.713	16398	3.4	10	-N						DJ	
VORO	30	0154	0156	0204	N20	E44	.713	16398	2.4	10	-N	*	C	0156	72	1.0	DJ	
MANI	30	0200E	0200U	0203D	N20	F45	.724	16398	2.5	30	-F	*	C		20			
222	CULG	30	0214	0218	0229	N25	E71	.945		4.4	15	-F		C	0218	60		ZX
223	CULG	30	0245	0249	0303	S22	H38	.716	16384	27.3	18	-F		C	0249	50	.7	ZX
224	CULG	30	0353	0355	0359	N23	E50	.784	16398	2.9	6	-N		C	0355	30	.4	ZX
225	CULG	30	0434	0443	0453	S12	H49	.782	16384	26.5	19	-F		C	0443	40	.6	ZX
226	CULG	30	0503	0522	0552	S18	H47	.783	16384	26.7	49	-F		C	0522	60	1.0	ZX
227	CULG	30	0529	0533	0633	N13	E50	.766	16398	3.0	64	?N		C	0533	180	2.7	FL ZX
			IMP.1 NO	: YUNN	PURP													
228	CULG	30	0544	0557	0617	N33	E65	.918	16399	4.1	33	?F		C	0557	220	4.7	ZX
			IMP.1 NO	: YUNN	PURP													
229	CULG	30	0554	0557	0607	S17	H53	.835	16384	26.3	13	-F		C	0557	60	1.0	ZX
230	CULG	30	0607	0620	0649	S15	H78	.984	16379	24.4	42	-F		C	0620	40		ZX
GRP79231	30	0701+4	0708+1	0718	N28	E56	.848	16399	4.5	17	-N				35	.7		
CULG	30	0701	0708	0721	N29	E57	.858	16399	3.6	20	-N		C	0708	40	.8		
YUNN	30	0705	0709	0715	N27	E56	.846	16399	3.5	10	-N		C		32	.6		
232	YUNN	30	0715	0725	0727	N16	E39	.642	16398	2.2	12	-N		C		48	.6	ZX
233	CULG	30	0731	0734	0742	N23	E47	.754	16398	2.8	11	-N		C	0734	100	1.5	ZX
234	CULG	30	0758	0806D	0806D	N18	E43	.696	16398	2.6	80	-N		P	0806	80	1.1	ZX
		30	0930	0940	NO FLARE PATROL													
		30	1000	1050	NO FLARE PATROL													
		30	1055	1126	NO FLARE PATROL													
		30	1150	1157	NO FLARE PATROL													
		30	1308	1326	NO FLARE PATROL													
235	HUAN	30	1358E	1402	N17	E30	.528	16398	1.8	40	-F	1	P				E ZX	
GRP79236	30	1629>9	1643+1	1733	N33	E57	.867	16399	5.0	64	-F						D	
			1729															
BIGB	30	1629	1644	1737	N33	E59	.880	16399	4.1	68	-N	1	C	1644	70	1.4		
RAMY	30	1642	1643	1702	N33	E57	.867	16399	4.0	20	-F	3	C		132			
HUAN	30	1727	1729	1733	N28	E50	.797	16399	3.5	6	-F	1	C	1729	20	.3	D	
237	BIGB	30	1809	1811	1822	N17	E38	.632	16398	2.6	13	-F	2	C	1811	40	.5	ZX
238	BIGB	30	2129	2134U	2147	S07	E25	.462		1.8	18	-F	1		37	.4	ZX	
GRP79239	30	2203>9	2217	2257	N17	E28	.502	16398	3.0	54	-N						F	
			2250															
HOLL	30	2203	2217	2256	N19	E31	.552	16398	2.2	53	-N	2	C		105		F	
CULG	30	2242	2250	2258	N16	E25	.455	16398	1.8	16	-N		C	2250	30	.3		
240	BIGB	30	2248	2250	2302	S07	E23	.434		1.7	14	-F	1		50	.5	ZX	
241	BIGB	30	2355	2357	0005D	S01	E26	.447		1.9	100	-F	1		33	.3	ZX	
242	PURP	31	0006	0008	0012	N15	H54	.810	16386	27.0	6	-F		C			ZX	
GRP79243	31	0156+8	0207+3	0226	N12	E57	.837	16402	5.4	30	1F						J	
			0225															
CULG	31	0156	0225	0232D	N17	E57	.840	16402	4.4	360	1F		C	0225	180	3.4	F	
PURP	31	0204	0210	0226	N10	E59	.855	16402	4.5	22	1N		C					
VORO	31	0204	0207	0220	N12	E55	.818	16402	4.2	16	-F		C	0207	90	1.6	DJ	
244	PURP	31	0232	0235	0244	N16	E34	.578	16398	2.7	12	-F		C			ZX	
GRP79245	31	0328+7	0335+0	0357	N10	E58	.846	16402	5.5	29	1N							
			0346															
CULG	31	0328	0335	0419	N10	E58	.846	16402	4.5	51	1N		C	0335	180	3.4		
YUNN	31	0330	0335	0342	N09	E58	.845	16402	4.5	12	-F		C		16	.3		
PURP	31	0335	0346	0357	N10	E58	.846	16402	4.5	22	1B		C					



# H $\alpha$ SOLAR FLARES

OCTOBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	McNATH PLAGE REGION				CMP. DAY	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.										

"REMARKS":

- |   |  |
|---|--|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>         F = Several eruptive centers.<br/>         G = No visible spots in the neighborhood.<br/>         H = Flare accompanied by high-speed dark filament.<br/>         I = Active region very extended.<br/>         J = Distinct variations of plage intensity before or after the flare.<br/>         K = Several intensity maxima.<br/>         L = Existing filaments show signs of sudden activity.<br/>         M = White-light flare.<br/>         N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of CaII.<br/>         P = Flare shows helium D3 in emission.<br/>         Q = Flare shows Balmer continuum in emission.<br/>         R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.<br/>         S = Brightness follows disappearance of filament in same position.<br/>         T = Region active all day.<br/>         U = Two bright branches, parallel or converging.<br/>         V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.<br/>         W = Great increase in area after time of maximum intensity.<br/>         X = Unusually wide H-alpha line.<br/>         Y = System of loop-type prominences.<br/>         Z = Major sunspot umbra covered by flare.</p> |
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## DAILY FLARE INDICES

Includes all Flares

OCTOBER 1979			OCTOBER 1979			OCTOBER 1979		
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
791001.	134.21	24.0	791012.	195.01	24.0	791023.	62.46	23.4
791002.	251.59	24.0	791013.	67.03	23.6	791024.	80.18	24.0
791003.	96.65	22.6	791014.	138.61	24.0	791025.	436.85	24.0
791004.	67.46	23.1	791015.	87.22	24.0	791026.	104.34	24.0
791005.	125.52	23.5	791016.	166.69	24.0	791027.	25.26	20.8
791006.	339.70	24.0	791017.	337.51	24.0	791028.	33.80	20.7
791007.	310.08	24.0	791018.	135.87	21.9	791029.	196.25	22.9
791008.	97.27	24.0	791019.	742.02	24.0	791030.	54.47	22.1
791009.	125.57	24.0	791020.	1004.23	23.5	791031.	144.47	20.2
791010.	106.72	24.0	791021.	177.23	24.0			
791011.	218.25	19.8	791022.	78.27	22.3			

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