

H α SOLAR FLARES

SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS	
	DATE SEP	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.											
	01	0015	0102	NO FLARE PATROL													
	01	0105	0134	NO FLARE PATROL													
473 MITK	01	0407	0410	0415	S25	W67	.954	14915	27.1	8	-N	C	0410	120		Y5	
474 CATA	01	0655	0655	0700	N24	E71	.938	14930	6.6	5	-N	2	0655	56		Y5	
475 MONT	01	0736	0756	0821	N26	E69	.927	14930	6.5	45	-N	C	0756	180		Y5	
476 ATHN	01	0747E		0747D	N21	W40	.656	14931	29.3		-N	1		123		Y5	
GRP64477	01	0830+3	0857	0903	N27	E68	.922	14930	6.5	33	-N					E	
CATA	01	0830E	0830	0830D	N29	E68	.923	14930	6.5		1N	2	0830	73		E	
MONT	01	0833	0857	0903	N26	E69	.927	14930	6.5	30	-N	C	0857	80		E	
478 MONT	01	0917	0923	0931	N26	E68	.921	14930	6.5	14	-F	C	0923	60		E Y5	
GRP64479	01	1335	1340	1400D	N21	E62	.877	14930	6.2	25	-F						
CATA	01	1335	1340	1400	N24	E60	.864	14930	6.1	25	-F	2	1340	67	1.4	A	
LVOV	01	1348E	1434	1517D	N19	E64	.892	14930	6.4	89D	1F	C	1434	100			
	01	1550	1555	NO FLARE PATROL													
	01	1609	1613	NO FLARE PATROL													
	01	1623	1632	NO FLARE PATROL													
	01	1635	1647	NO FLARE PATROL													
	01	1648	1710	NO FLARE PATROL													
	01	1726	1730	NO FLARE PATROL													
	01	1750	2336	NO FLARE PATROL													
480 VORO	02	0205	0207	0220	N26	E57	.841	14930	6.4	15	-N	C	0207	45	.8	EJ Y5	
GRP64481	02	0617	0618	0621	N26	E62	.881	14930	6.9	4	-F			60	1.4	D	
HTPR	02	0617	0618	0620	N26	E62	.881	14930	6.9	3	-F	C	0618	60	1.2		
BUCA	02	0618E		0622	N26	E62	.881	14930	6.9	40	-F	C	0618	64	1.4	CD	
	02	1654	1701	NO FLARE PATROL													
	02	2036	2037	NO FLARE PATROL													
	02	2047	2050	NO FLARE PATROL													
	02	2058	2101	NO FLARE PATROL													
	02	2107	2129	NO FLARE PATROL													
	02	2200	0006	NO FLARE PATROL													
	03	0007	0027	NO FLARE PATROL													
	03	0038	0043	NO FLARE PATROL													
	03	0055	0102	NO FLARE PATROL													
	03	0139	0146	NO FLARE PATROL													
	03	0203	0204	NO FLARE PATROL													
GRP64482	03	1449+3	1453+1	1458	N24	E36	.620	14930	6.3	9	-F			20	.3	D	
LVOV	03	1449E	1454	1500D	N23	E35	.604	14930	6.2	110	-F	C	1454	100	1.3	D	
HTPR	03	1451	1453	1455	N25	E38	.648	14930	6.5	4	-F	C	1453	20	.2		
MCMA	03	1452	1454	1458	N23	E35	.604	14930	6.2	6	-N	C	1454	20	.3	D	
GRP64483	03	1457+6	1508+6	1537	S32	W43	.836	14924	31.4	40	-N					E	
LVOV	03	1457E	1508	1520D	S32	W43	.836	14924	31.4	230	1F	C	1508	150	2.8	E	
MCMA	03	1503	1514	1537	S33	W44	.848	14924	31.3	34	-N	C	1514	60	.9	E	
GRP64484	03	1515+9	1555	1606	N26	E37	.641	14930	6.4	51	-F					K	
MCMA	03	1515		1611	N27	E38	.657	14930	6.5	56	-F	C	1530	100	1.4	EFK	
KANZ	03	1551	1555	1600	N25	E37	.637	14930	6.4	9	-F	C				D	
	04	2117	2151	NO FLARE PATROL													
	04	2155	2235	NO FLARE PATROL													
	05	0135	0144	NO FLARE PATROL													
485 PALE	05	2103	2104	2124	N23	E08	.301	14930	6.5	21	-F	3	C		43		DE F Y5
	06	0122	0137	NO FLARE PATROL													
	06	0140	0148	NO FLARE PATROL													
	06	0204	0209	NO FLARE PATROL													
	06	0212	0217	NO FLARE PATROL													
GRP64486	06	0902+2	0908+2	0920	N24	00	.288	14930	6.4	18	-F			15	.2	E	
MONT	06	0848	0856	0923	N25	E07	.325	14930	6.9	35	-F	C	0856	60		E	
KANZ	06	0902	0910	0922	N24	E00	.288	14930	6.4	20	-N	C				E	
HTPR	06	0903	0908	0918	N24	W01	.289	14930	6.3	15	-F	C	0908	10	.1	E	
MEUD	06	0904	0908	0918	N24	W01	.289	14930	6.3	14	-F	C	0908	20	.2	E	

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H α SOLAR FLARES

SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.				
					LAT.	MER. DIST.														
503 HUAN	08	1359	1404	1412	N08	E90	1.000	14943	15.3	13	-F	1	C	1404	25		D	Y5		
504 HUAN	08	1427	1433	1441	N06	E90	1.000	14943	15.4	14	-F	1	C	1433	20		D	Y5		
505 MCMA	08	1444	1450	1457	N07	E90	1.000	14943	15.4	13	-F		C	1450				Y5		
506 MCMA	08	1516	1517	1521	N07	E90	1.000	14943	15.4	5	-F		C	1517				Y5		
507 MCMA	08	1640E		17200	N07	E90	1.000	14943	15.4	400	-F		C					Y5		
508 HUAN	08	1751E		17540	N09	E90	1.000	14943	15.5	30	-F	1	P					Y5		
509 MCMA	08	1825E		18400	N07	E90	1.000	14943	15.5	150	-F		C					Y5		
510 HUAN	08	1859	1901	1903	N09	E90	1.000	14943	15.5	4	-F	1	C	1901	35		E	Y5		
	08	1954	2033		NO FLARE PATROL															
511 VORO	08	2354	2356	0003	N21	E43	.691	14941	12.2	9	?N		C	2356	206	2.8	E	Y5		
	IMP.	.1 NO	CULG																	
512 VORO	09	0043	0044	0054	N16	E80	.980	14942	15.0	11	?N		C	0044	81	4.0	DG	Y5		
	IMP.	.1 NO	CULG																	
513 TACH	09	0453		0540	N08	E88	.999	14943	15.8	47	?N		C	0517	203		E	Y5		
	IMP.	.1 NO	CULG																	
514 ATHN	09	0620	0639	06550	N03	E85	.996	14943	15.6	350	-B	1						Y5		
515 KHAR	09	0725E		07500	N08	E81	.985	14943	15.4	250	?F		P	0740	21		OT	Y5		
	IMP.	.1 NO	HTPR	CATA																
GRP64516	09	0831E	0855+4	10100	N09	E83	.990	14943	15.6	99	1N				90					
MONT	09	0831E	0859	09530	N08	E85	.995	14943	15.7	820	-N		C	0859	70					
KHAR	09	0845E		09250	N08	E81	.985	14943	15.4	400	1F		C	0900	15			T		
CATA	09	0855	0855	09200	N12	E84	.992	14943	15.7	250	1N	1		C	0855	112			T	
KHAR	09	0950E		10100	N08	E81	.985	14943	15.5	200	1F		C					T		
GRP64517	09	1015+5	1020+7	1031	N08	E81	.985	14943	15.5	16	-N							E		
ATHN	09	1015	1020	1030	N04	E83	.992	14943	15.7	15	-B	1								
HTPR	09	1019	1027	1031	N08	E82	.988	14943	15.6	12	-F		C	1027	30	.7	E			
CATA	09	1020	1025	10300	N09	E79	.978	14943	15.4	100	1B	1		C	1025	84			T	
KHAR	09	1020E	1027	11200	N08	E80	.982	14943	15.4	600	1F		C							
GRP64518	09	1025+0	1028+2	1044	N18	W67	.913	14935	4.4	19	-F							D		
HTPR	09	1025	1028	1037	N18	W67	.913	14935	4.4	12	-F		C	1028	20	.5			D	
KHAR	09	1025E	1030	10500	N18	W67	.913	14935	4.4	250	1F		C						D	
GRP64519	09	1609+3	1616+4	1625	N08	E83	.991	14943	15.9	16	-N				25			E		
MCMA	09	1609	1620	16300	N07	E85	.995	14943	16.0	210	-N		C	1620				E		
HUAN	09	1610	1617	1625	N09	E85	.994	14943	16.0	15	-N	1		C	1617	30				
HTPR	09	1612	1616	1624	N08	E80	.982	14943	15.7	12	-F		C	1616	20	.5				
GRP64520	09	1630+1	1634	1703	N08	E84	.993	14943	16.0	33	1N							FIRUY		
MCMA	09	1630		19000	N07	E87	.998	14943	16.2	1500	2B		C	1645				FIRU		
HUAN	09	1631		1703	N09	E85	.994	14943	16.1	32	1B	1		C				Y		
HTPR	09	1631	1634	1655	N08	E80	.982	14943	15.7	24	-F		C	1634	30	.8				
	09	2017	2037		NO FLARE PATROL															
	09	2106	2132		NO FLARE PATROL															
521 TACH	10	0510	0514	0550	N08	E79	1.000	14943	15.8	67	1N		C				E	Y5		
522 CULG	10	0548	05580	0635	N06	E69	.930	14943	15.4	47	-F		C	0558	60				Y5	
GRP64523	10	0655+9	0701	0852	N06	E69	.930	14943	15.5	117	-N							DK		
			0747+2																	
CULG	10	0655	0701	07320	N06	E69	.930	14943	15.5	370	-N		P	0701	70			T K		
KANZ	10	0730	0749	0855	N06	E70	.937	14943	15.6	85	-F							D		
MONT	10	0732E	0747	0849	N06	E69	.930	14943	15.5	770	-N		C	0747	50					
GRP64524	10	0800+1	0804+0	0808	N26	W49	.768	14930	6.7	8	-F							E		
KANZ	10	0800	0804	0807	N25	W51	.785	14930	6.5	7	-F		C					D		
MONT	10	0801	0804	0808	N27	W48	.761	14930	6.7	7	-F		C	0804	20					
525 KANZ	10	1118	1118	1124	N25	W52	.795	14930	6.6	6	-F		C						Y5	

H α SOLAR FLARES

SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
526 HTPR	10	1121	1127	1136	N06	E67	.917	14943	15.5	15	-F	C	1127	10	.2	Y5	
GRP64527	10	1435+1	1437+0	1449	N05	E65	.903	14943	15.5	14	-F						
MCMA	10	1418E		1451D	N05	E66	.911	14943	15.5	330	-N	P	1439	20	.5	D	
MEUD	10	1435	1437	1439	N05	E64	.896	14943	15.4	4	-F	C	1437	25	.6	D	
HTPR	10	1436	1437	1447	N05	E64	.896	14943	15.4	11	-F	C	1437	20	.5	D	
HUAN	10	1445E		1500	N05	E65	.903	14943	15.5	150	-F	1 P		20	.4		
528 HUAN	10	1850		1856	N06	E61	.871	14943	15.4	6	-F	1 C				E Y5	
	10	1934	1937		NO FLARE PATROL												
	10	2035	2104		NO FLARE PATROL												
529 CULG	10	2132	2141	2210	N06	E59	.853	14943	15.3	38	-N	C	2141	20	.4	Y5	
	11	0053	0058		NO FLARE PATROL												
	11	0104	0122		NO FLARE PATROL												
	11	0146	0148		NO FLARE PATROL												
530 CULG	11	0604	0606	0620	N14	E36	.588		14.0	16	-N	C	0606	20	.3	Y5	
531 CATA	11	0855E	0855	0900D	N18	E50	.764	14942	15.1	50	-B	1	0855	22	.4	Y5	
532 MEUD	11	1043	1044	1045	N26	H61	.873	14930	6.9	2	-N	C	1044	30	.7	E Y5	
533 MCMA	11	1201E		1300D	N15	E47	.727	14942	15.0	590	-N	* P	1221	125	1.9	E Y5	
534 MCMA	11	1201E		1400	N07	E52	.783	14942	15.4	1190	-F	P	1215	60	1.0	E Y5	
GRP64535	11	1300>9	1320+4 1350+3	1412D	N15	E47	.727	14942	15.1	72	-N					E	
MCMA	11	1300	1320	1338D	N15	E46	.716	14942	15.0	380	-N	* C	1320	130	1.9	E	
KANZ	11	1318	1324	1332	N15	E46	.716	14942	15.0	14	-N	* C				E	
KANZ	11	1332	1353	1502	N15	E48	.739	14942	15.2	90	-N					E	
MCMA	11	1338	1350	1412D	N15	E48	.739	14942	15.2	340	-N	C	1350	60	.9	E	
GRP64536	11	1413+4	1420+1	1440D	N15	E46	.716	14942	15.0	27	-N			100	1.5	E	
MCMA	11	1413	1420	1510	N15	E48	.739	14942	15.2	57	-B	C	1420	100	1.6	E	
MEUD	11	1417	1421	1440	N16	E44	.693	14942	14.9	23	-N	C	1421	100	1.4	E	
537 KANZ	11	1432	1440	1442	N07	E50	.761	14942	15.4	10	-N	C				Y5	
GRP64538	11	1615+0	1619+0	1625	N26	H66	.908	14930	6.7	10	-N			40		D	
MCMA	11	1615	1619	1624	N27	H68	.922	14930	6.6	9	-B	C	1619	30	.7	D	
MEUD	11	1615	1619	1626	N26	H64	.895	14930	6.9	11	-N	C	1619	50		D	
539 MCMA	11	1710	1712	1718	N15	E47	.727	14942	15.2	8	-N	C	1712	30	.5	D Y5	
540 MCMA	11	1718	1721	1724	N15	E44	.692	14942	15.0	6	-N	C	1721	50	.7	E Y5	
GRP64541	11	1849+1	1850+1	1856	N08	E48	.738	14943	15.4	7	-N			90	1.3	DR	
RAMY	11	1849E	1851U	1856D	N09	E48	.738	14943	15.4	70	-N	3 C		95		R	
PALE	11	1850	1850	1907	N09	E50	.760	14943	15.5	17	-N	3 C		91		DE	
MCMA	11	1850	1851	1855	N07	E46	.715	14943	15.2	5	-B	C	1851	40	.6	D	
	11	1938	1952		NO FLARE PATROL												
	11	2016	2022		NO FLARE PATROL												
	11	2028	2031		NO FLARE PATROL												
	11	2124	2134		NO FLARE PATROL												
542 VORO	11	2211E		2228	N16	E42	.669	14942	15.1	170	-B	P	2217	99	1.3	J Y5	
543 VORO	11	2230E		2240	N06	E44	.691	14943	15.2	100	-B	C	2231	90	1.2	CDJ Y5	
544 VORO	11	2247	2252	2316D	N16	E42	.669	14942	15.1	290	-B	P	2252	99	1.3	EJ Y5	
	11	2300	2311		NO FLARE PATROL												
	11	2325	0021		NO FLARE PATROL												
	12	0023	0038		NO FLARE PATROL												
	12	0041	0045		NO FLARE PATROL												
GRP64545	12	0954+4	1001	1028	N21	E42	.680	14943	15.6	34	-F			25	.4	E	
			1014+0														
HONT	12	0954	1001	1008	N18	E47	.731	14943	15.9	14	-F	C	1001	40		E	
KANZ	12	0958	1014	1026	N21	E42	.680	14943	15.6	28	-F	C					
HONT	12	1007	1014	1029	N22	E42	.683	14943	15.6	22	-F	C	1014	20		D	
CATA	12	1015E	1015	1015D	N22	E42	.683	14943	15.6		-N	1	1015	28	.4		

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SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	GEMATH FLARE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
	SEP				LAT.	MER. DIST.											
	12	1807	1948	NO FLARE	RE PATROL												
	12	2001	2039	NO FLARE	RE PATROL												
	12	2054	2104	NO FLARE	RE PATROL												
	12	2158	2206	NO FLARE	RE PATROL												
	12	2219	2222	NO FLARE	RE PATROL												
546 VORO	13	0126	0128	0133	N17 E31	.527	14943	15.4	7	-B	C	0128	125	1.4	D	Y5	
547 VORO	13	0212	0212	0218	N11 E38	.611	14943	15.9	6	-B	C	0212	45	.5	D	Y5	
548 TACH	13	0530	0534	0550	N10 E36	.583	14943	15.9	20	-N	C	0539	88	1.1	E	Y5	
549 CULG	13	0544	0554	0605	N28 W90	.998	14930	6.5	21	-N	C	0554	40			Y5	
550 KANZ	13	0927E	0927	0927D	N10 E35	.569	14943	16.0		-B	C				D	Y5	
GRP64551	13	1318+5	1322+1	1334	N10 E33	.541	14943	16.0	16	-N					D		
HTPR	13	1318	1322	1333	N11 E33	.541	14943	16.0	15	-F	C	1322	10	.1			
KANZ	13	1323	1323	1334	N10 E33	.541	14943	16.0	11	-B	C				D		
GRP64552	13	1455+1	1455+2	1507	N06 E21	.357	14943	15.2	12	-N			20	.2			
CATA	13	1455	1455	1510	N08 E21	.356	14943	15.2	15	-B		1455	28	.3			
HUAN	13	1456E		1501	N05 E21	.358	14943	15.2	50	-F	1 P	1456	20	.2	D		
HTPR	13	1456	1457	1507	N05 E22	.374	14943	15.3	11	-F	C	1457	20	.2	E		
GRP64553	13	1548+1	1553	1610	N10 E32	.526	14943	16.1	22	-F							
HTPR	13	1548	1553	1612	N09 E32	.526	14943	16.1	24	-F	C	1553	20	.2	E		
HUAN	13	1549		1608	N11 E32	.527	14943	16.1	19	-F	1 C	1604	25	.3	O		
	13	1857	1915	NO FLARE	RE PATROL												
	13	1953	2049	NO FLARE	RE PATROL												
554 CULG	13	2333	2356	0010	N10 E27	.451	14943	16.0	37	-N	C	2356	25	.3		Y5	
555 HTPR	14	0922E		0934	N07 E12	.206	14943	15.3	120	-F	C	0925	10	.1		Y5	
GRP64556	14	1311	1315	1329	N08 E17	.290	14943	15.8	18	-F							
ZURI	14	1311	1315	1333	N09 E18	.307	14943	15.9	22	-N	C	1315	130	1.4			
HTPR	14	1312E		1324	N08 E17	.290	14943	15.8	120	-F	C	1314	10	.1			
GRP64557	14	1501+9	1529	1615	N05 E07	.127	14943	15.2	74	-N							
ZURI	14	1501	1529	1539	N05 E09	.160	14943	15.3	38	-N	C	1529	50	.5			
MCMA	14	1527	1555	1640	N05 E07	.127	14943	15.2	73	-N	C	1555	60	.6	E		
WEND	14	1545E		1619D	N06 E07	.123	14943	15.2	340	1N	P		400				
HUAN	14	1604E		1610D	N05 E07	.127	14943	15.2	60	-F	1 P	1605	25	.3	D		
558 VORO	14	2147	2149	2159	N18 E37	.610	14948	17.7	12	-B	C	2149	45	.5	OGJ	Y5	
GRP64559	15	0729+1	0730+1	0743	N15 W12	.244	14942	14.4	14	-F			20	.2	D		
HTPR	15	0729	0730	0744	N14 W12	.235	14942	14.4	15	-F	C	0730	20	.2			
MONT	15	0729	0731	0743	N15 W12	.244	14942	14.4	14	-F	C	0731	20		D		
KANZ	15	0730	0730	0743	N15 W12	.244	14942	14.4	13	-F	C				D,T		
GRP64560	15	0751+9	0802+1	0830	N07 W01	.018	14943	15.3	39	-F					D		
MONT	15	0751	0803	0835	N08 W01	.022	14943	15.3	44	-F	C	0803	20		D		
KANZ	15	0758	0802	0830	N06 W01	.027	14943	15.3	32	-F	C				D		
HTPR	15	0800	0812	0830	N07 W02	.035	14943	15.2	30	-F	C	0812	10	.1			
GRP64561	15	1042+3	1051+0	11030	N07 E03	.052	14943	15.7	21	-N							
MONT	15	1042	1051	11150	N08 E01	.022	14943	15.5	330	-F	C	1051	80				
ZURI	15	1045	1051	1103	N07 E05	.087	14943	15.8	18	-B	C	1051	30	.3			
GRP64562	15	1107+6	1115+2	11180	N10 E07	.130	14943	16.0	11	-N			35	.4	E		
ZURI	15	1107	1117	1151	N10 E06	.114	14943	15.9	44	-B	C	1117	50	.5			
HTPR	15	1113	1115	1118	N10 E08	.146	14943	16.1	5	-F	C	1115	20	.2	E		
GRP64563	15	1115+0	1129+0	1146	N23 E88	.997	14951	22.1	31	-F							
ZURI	15	1115	1129	1151	N23 E87	.995	14951	22.0	36	-F	C	1129	20				
KANZ	15	1115	1129	1141	N24 E90	.999	14951	22.2	26	-N							
564 KANZ	15	1145	1148	1152	N17 W04	.183	14942	15.2	7	-N	C					Y5	
565 ZURI	15	1319	1321	1359	N09 E05	.092	14943	15.9	40	-N	C	1321	40	.4		Y5	
566 PALE	15	1855	1857	1901	N07 W03	.052	14943	15.6	6	-F	3 C		36		DE	Y5	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST											
GRP64567 CULG VORO	15	2000	2004	NO FLARE	N23	W05	.284	14942	15.6	62	-N						
	15	2040	2045	NO FLARE	N24	W05	.300	14942	15.6	62	-N						
	16	0033+1	0040+2	0135	N23	W05	.284	14942	15.6	62	-N						
	16	0033	0042	0135	N24	W05	.300	14942	15.6	62	-N						
	16	0034	0040	01100	N23	W06	.290	14942	15.6	360	-B	C	0042	130	1.4	06	
	16	0112	0119	NO FLARE	N24	W06	.290	14942	15.6	360	-B	C	0040	140	1.6	06	
	16	0127	0134	NO FLARE	N24	W06	.290	14942	15.6	360	-B	C	0040	116	1.2	06	
568	16	0645	0645	0650	N17	W11	.251	14943	15.5	5	-N	2	0645	56	.6	H Y5	
569	16	0931	0932	0947	N16	W15	.294	14942	15.3	16	-F	C	0932	10	.1	Y5	
GRP64570 HTPR HTPR	16	0942	0944+1	1005	N09	W07	.125	14943	15.9	23	-F						
	16	0942	0944	0953	N08	W10	.173	14943	15.7	11	-F	C	0944	10	.1		
	16	0944	0945	1005	N11	W05	.109	14943	16.0	21	-F	C	0945	10	.1		
571	16	1201	1203	1204	N18	W30	.517	14942	14.3	3	-F	C	1203	10	.1	Y5	
572	16	1202	1204	1215	N08	W17	.290	14943	15.2	13	-F	C	1204	10	.1	Y5	
573	16	1204	1207	1213	N13	W20	.350	14942	15.0	9	-F	* C	1207	10	.1	Y5	
574	16	1244	1247	1250	N08	W17	.290	14943	15.3	6	-F	C	1247	10	.1	Y5	
575	16	1312	1318	1322	N17	W21	.386	14942	15.0	10	-F	C	1318	10	.1	Y5	
576	16	1343	1346	1403	N20	W23	.434	14942	14.8	20	-F	C	1347	10	.1	Y5	
577	16	1428	1430	1445	N08	W15	.257	14943	15.5	17	-F	C	1430	20	.2	Y5	
578	16	1510	1512	1520	N10	W17	.293	14943	15.4	10	-F	C	1512	10	.1	Y5	
579	16	1735E	1739	1753	N07	W20	.339	14943	15.2	180	-N	4 C		190		FDE Y5	
GRP64580 PALE PALE	16	1803+0	1805+0	1830	N07	W16	.274	14943	15.6	27	-F			50	.5		
	16	1803	1805	1830	N07	W16	.274	14943	15.6	27	-F	3 V		53		DE	
	16	1803	1805	1830	N07	W16	.274	14943	15.6	27	-F	3 C		53		DE	
GRP64581 CULG PALE PALE CULG MANI VORO MITK	16	2123	2141+2 2256+9	0043	N07	W20	.339	14943	15.4	200	2N			820	8.7	FRUZ	
	16	2123	2141	22300	N08	W20	.339	14943	15.4	670	1N	C	2141	220	2.4	UZ	
	16	2140E	2307	0215	N07	W21	.356	14943	15.3	2750	2B	4 C		190		Z U	
	16	2140E	2143	0000	N07	W21	.356	14943	15.3	1400	2B	3 V		826		Z U	
	16	2230	2256	0050	N08	W20	.339	14943	15.4	140	2N	C	2256	765	8.2	UZ	
	16	2300E	2300U	0015	N08	W21	.356	14943	15.4	750	2B	2		2300	850	9.4	ZF
	16	2305E		23250	N07	W20	.339	14943	15.5	200	2N	P		2305	1102	12.0	
	16	2306E		01050	N06	W20	.340	14943	15.5	1190	2N	P		2312	570	6.2	R
	16	2203	2223	NO FLARE	N06	W20	.340	14943	15.5	1190	2N	P		2312	570	6.2	R
	16	2203	2223	NO FLARE	N06	W20	.340	14943	15.5	1190	2N	P		2312	570	6.2	R
GRP64582 CULG MITK PALE	17	0240+5	0247+3	0300	N17	W28	.485	14942	15.0	20	-N			70	.8	U	
	17	0240	0250	0310	N18	W28	.490	14942	15.0	30	-N	C	0250	55	.6		
	17	0241	0247	0300	N17	W28	.485	14942	15.0	19	-N	C	0247	90	1.1	E	
	17	0245	0247	0253	N16	W29	.496	14942	14.9	8	-F	3 C		73		U F	
GRP64583 CULG CATA	17	0624+6	0634+1	0652	N18	W38	.623	14942	14.4	28	-N						
	17	0624	0634	0648	N19	W38	.626	14942	14.4	24	-F	C	0634	20	.2		
	17	0630	0635	06550	N17	W38	.620	14942	14.4	250	-B	2		0635	56	.7	
GRP64584 CULG ATHN	17	0651+1	0654+0	0704	N08	W24	.404	14943	15.5	13	-F			30	.3		
	17	0651	0654	0711	N08	W20	.339	14943	15.8	20	-F	C	0654	30	.4		
	17	0652	0654	0656	N09	W28	.466	14943	15.2	4	-N	1		33	.7		
585	17	1020	1020	1030	N09	W31	.511	14943	15.1	10	-N	2	1020	112	1.3	Y5	
586	17	1345E	1400	14200	N08	W33	.540	14943	15.1	350	-B	C	1400	100	1.3	E Y5	
587	17	1504E	1510	15230	N18	W36	.597	14942	14.9	190	-N	C	1510	60	.8	E Y5	
588	17	1514		15280	N08	W33	.540	14943	15.2	140	-N	C	1523	150	1.5	E Y5	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CHR DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST.												
GRP64589	17	2146+6	2158+2	2222	N06	W34	.556	14943	15.4	36	-N							
VORO	17	2146E		22040	N06	W35	.570	14943	15.3	180	-B	P	2149	143	1.7		E	
CULG	17	2151	2200	2210	N06	W35	.570	14943	15.3	19	-F	C	2200	30	.3			
PALE	17	2152	2158	2234	N07	W32	.526	14943	15.5	42	-F	3	C		70		FDE	
GRP64590	18	0019+1	0035+5	0140	N07	W35	.570	14942	15.4	81	1N				360	4.4	FZ	
PALE	18	0019	0035	00540	N07	W33	.541	14942	15.5	350	1B	3	V		368		Z F	
CULG	18	0020	0040	0140	N08	W38	.611	14942	15.2	80	1N		C	0040	345	4.3	ZF	
	18	0205	0210	NO FLARE PATROL														
591 PALE	18	0321	0325	0338	N01	W35	.580	14943	15.5	17	-F	3	V		120		FDE Y5	
GRP64592	18	0538+2	0542+2	0556	S26	E67	.956	14952	23.3	18	-F						D	
CULG	18	0538	0544	0555	S27	E66	.953	14952	23.2	17	-F	C	0544	30			D	
TACH	18	0540	0542	05560	S25	E69	.963	14952	23.4	160	-N	C	0546	88				
593 ATHN	18	0640	0642	0644	S23	E64	.936	14952	23.1	4	-B	1			33		Y5	
594 CULG	18	0654	0701	0715	N08	W40	.638	14943	15.3	21	-F	C	0701	20	.2		Y5	
595 RAMY	18	1228E	1230	12390	S25	E61	.924	14952	23.1	70	-N	4	C		32		DE Y5	
GRP64596	18	1256+2	1301+2	1308	N07	W38	.612	14943	15.7	12	-F				130	1.7		
MEUD	18	1256		1304	N07	W38	.612	14943	15.7	8	-F	C	1259	40	.5			
TEHR	18	1258	1301	1311	N10	W45	.702	14943	15.2	13	-F	3	C		127			
RAMY	18	1300E	1303	13080	N07	W37	.598	14943	15.8	80	-F	4	C		127		FDE	
597 MEUD	18	1331	1332	1343	S25	E59	.912	14952	23.0	12	-F	C	1332	30	.7		D Y5	
598 HUAN	18	1822		1830	S26	E57	.902	14952	23.0	8	-F	1	C				E Y5	
GRP64599	18	1905+1	1911	1924	N07	W44	.690	14943	15.5	19	-F							
HUAN	18	1905		1919	N06	W45	.703	14943	15.4	14	-F	1	C				E	
PALE	18	1906	1911	1929	N08	W44	.690	14943	15.5	23	-F	3	C		70		F	
GRP64600	19	0004+0	0012+0	0044	N08	W47	.726	14943	15.5	40	-F				70	1.0	K	
PALE	19	0004	0012	0042	N08	W47	.726	14943	15.5	38	-N	3	C		71		FDE	
PALE	19	0004	0012	0042	N08	W47	.726	14943	15.5	38	-F	3	V		71		FDE	
CULG	19	0023E	0023E	0105	N08	W45	.702	14943	15.6	420	-F	P	0023	40	.6			
CULG	18	2335	2341	0045	N08	W50	.761	14943	15.2	70	-F	C	2341	30	.5		K	
GRP64601	19	0414	0421	0438	N09	W52	.782	14943	15.3	24	-N						E	
CULG	19	0414	0421	0438	N09	W54	.803	14943	15.1	24	-F	C	0421	40	.6			
TACH	19	0416E		04270	N10	W50	.760	14943	15.4	110	1N	V	0416	176	2.8		E	
602 ATHN	19	0753E	0756	0805	S26	E48	.840	14952	22.9	120	-F	1			33	1.0	Y5	
GRP64603	19	0955E	1038+7	1207	N08	W57	.834	14943	15.1	132	3B						FZ	
CATA	19	0955E	1045	11250	N05	W57	.836	14943	15.1	900	3B	2		1045	843	15.8		
KANZ	19	10060	1045	1205	N08	W57	.834	14943	15.1	1190	3B	C						
ATHN	19	1027	1039	12000	N10	W53	.793	14943	15.5	930	2B	1			672	15.3		
RAMY	19	1028E	1038	12080	N08	W58	.843	14943	15.1	1000	3B	3	C		1368		Z F	
604 ATHN	19	1007E	1016	1026	S26	E48	.840	14952	23.0	190	-F	1			82	2.4	Y5	
605 RAMY	19	1351E	1359U	14090	N08	W57	.834	14943	15.3	180	-N	4	C		127		FDE Y5	
606 RAMY	19	1534E	1538	15550	S23	E46	.810	14952	23.1	210	-N	4	C		95		FDE Y5	
607 CULG	20	0024	0029	0045	N12	W64	.892	14943	15.2	21	-N	C	0029	30	.6		Y5	
608 PALE	20	0024E	0029	0037	S24	E40	.765	14952	23.0	130	-F	2	V		25		DE Y5	
GRP64609	20	0251+9	0354	0847	N09	W59	.852	14943	15.7	356	2N						FI	
			0615															
CULG	20	0251	0354	07420	N10	W58	.842	14943	15.8	2910	3N	C	0354	840	15.1		I	
MITK	20	0302		03150	N12	W55	.813	14943	16.0	130	1N	C	0315	210	3.7		F	
TACH	20	0344E		06440	N11	W59	.851	14943	15.7	1800	3F	C	0347	618	12.8		BF	
MITK	20	0429E		06500	N11	W57	.832	14943	15.9	1410	2N	C	0429	480	8.6		F	
CATA	20	0605E	0615	06500	N08	W60	.861	14943	15.8	450	1B	2		0615	224	4.6		
MONT	20	0714E	0714	0847	N07	W62	.879	14943	15.7	930	1N	C	0714	250			B	
610 MONT	20	0849	0850	0853	S25	E33	.712	14952	22.8	4	-F	C	0850	20			D Y5	
611 HUAN	20	1632	1634	1636	N11	W73	.951	14943	15.2	4	-F	1	C	1634	25		E Y5	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CNR. DAY			MIN.	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA
	SEP				LAT.	MER. DIST.												
612 PALE	20	1753	1755	1801	N08	W70	.935	14943	15.5	8	-F	3	V		22		FDE Y5	
GRP64613	20	1838+0	1842	1850	N10	W73	.952	14943	15.3	12	-N							
PALE	20	1838	1842	1850	N10	W71	.941	14943	15.5	12	-N	3	V		60		FDE	
HUAN	20	1838		18410	N11	W75	.961	14943	15.2	30	-N	1	P					
GRP64614	20	2242+4	2250	2319	S23	E28	.652	14952	23.0	36	-N				60	.8	DJK	
VORO	20	2242	2308	2319	S22	E30	.661	14952	23.2	37	-B		C	2308	81	1.1	DJK	
PALE	20	2246	2250	2313	S23	E27	.644	14952	23.0	27	-F	3	V		27		DE	
CULG	20	2300	2307	2318	S24	E28	.661	14952	23.1	18	-F		C	2307	40	.5		
GRP64615	20	2257>9	2303+8	2324	N10	W74	.957	14943	15.4	27	-N				40		JL	
CULG	20	2257	2307	2324	N11	W74	.956	14943	15.4	27	-F		C	2307	35			
VORO	20	2301	2303	2324	N10	W75	.962	14943	15.3	23	-B		C	2303	63	2.2	DJL	
PALE	20	2308	2311	2326	N08	W73	.952	14943	15.5	18	-F	3	V		30		FDE	
616 VORO	21	0106	0108	0113	N05	W76	.968	14943	15.3	7	-B		C	0108	63	2.2	DJL Y5	
	21	0212	0213	NO FLARE PATROL														
	21	0221	0226	NO FLARE PATROL														
617 MITK	21	0345	0346	0348	N05	W77	.972	14943	15.4	3	-F		C	0346	50		E Y5	
618 HTPR	21	0635E	0636	0644	N10	W80	.982	14943	15.3	90	-F		C	0636	10		Y5	
619 HTPR	21	0723	0726	0730	N10	W80	.982	14943	15.3	7	-F		C	0726	10		E Y5	
620 MONT	21	0804	0818	0830	N13	W81	.984	14943	15.3	26	-F		C	0818	40		E Y5	
621 MONT	21	0821	0822	0826	N18	W88	.997	14942	14.7	5	-F		C	0822	20		D Y5	
GRP64622	21	0834+2	0836+1	0840	S23	E22	.602	14952	23.0	6	-F				45	.6	D	
MONT	21	0834	0837	0841	S24	E22	.613	14952	23.0	7	-F		C	0837	40		D	
ZURI	21	0836	0836	0838	S23	E23	.610	14952	23.1	2	-N		C	0836	50	.7		
GRP64623	21	0911>9	0932+1	0944	N11	W83	.990	14943	15.2	33	-N				30		E	
MONT	21	0911	0933	10120	N13	W82	.987	14943	15.2	610	-F		C	0933	40		E	
ZURI	21	0922	0932	0944	N09	W85	.995	14943	15.0	22	-B		C	0932	30		E	
HTPR	21	0929	0933	0936	N10	W82	.988	14943	15.2	7	-F		C	0933	10		E	
624 MONT	21	1000	1002	10120	N18	W89	.999	14942	14.7	120	-F		C	1002	20		Y5	
GRP64625	21	1036+4	1040+5	1101	N09	W84	.993	14943	15.1	25	-F				20			
HTPR	21	1036	1045	1101	N10	W84	.992	14943	15.1	25	-F		C	1045	10			
CATA	21	1040	1040	10500	N09	W85	.995	14943	15.1	100	-F	2		1040	28			
626 HTPR	21	1435	1436	1445	N25	E04	.314	14951	21.9	10	-F		C	1436	10	.1	Y5	
627 HTPR	21	1436	1439	1454	S23	E21	.594	14952	23.2	18	-F		C	1439	10	.1	Y5	
GRP64628	21	1448+0	1450+1	1453	N17	W90	.999	14942	14.9	5	-F				25		D	
HUAN	21	1448	1451	1452	N18	W90	.999	14942	14.9	4	-F	1	C	1451	25		D	
HTPR	21	1448	1450	1453	N16	W90	.999	14942	14.9	5	-N		C	1450	20			
629 HTPR	21	1458	1503	1522	S23	E21	.594	14952	23.2	24	-F		C	1503	10	.1	Y5	
630 HUAN	21	1707E		1716	N11	W87	.997	14943	15.2	90	-N	1	P	1707	20		C,D Y5	
	21	1956	2055	NO FLARE PATROL														
631 CULG	21	2235	2253	2335	N19	W90	.999	14942	15.2	60	?F		C	2253	50		Y5	
	IMP. 1	NO	VORO1															
632 CULG	22	0120	0124	0210	N11	W90	1.000	14943	15.3	50	1N		C	0124	60		K Y5	
633 CULG	22	0548	0555	0608	S24	E14	.558	14952	23.3	20	-F		C	0555	30	.3	Y5	
GRP64634	22	0617	0625	0649	N11	W90	1.000	14943	15.5	32	1F							
CULG	22	0617	0625	0703	N12	W90	1.000	14943	15.5	46	1F		C	0625	50			
ATHN	22	0626E	0626	0635	N10	W90	1.000	14943	15.5	90	-N	1						
635 CULG	22	0624	0631	0648	S24	E13	.553	14952	23.2	24	-F		C	0631	25	.3	Y5	

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H α SOLAR FLARES

SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MAGNITUDE PLAGE REGION			CMPR DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
677 CULG	26	2139	2143	2153	S20	H54	.862	14952	22.9	14	-F	C	2143	40	.8	Y5	
678 CULG	26	2200	2204	2235	N28	H15	.429	14957	25.8	35	-F	C	2204	40	.4	Y5	
GRP64679	26	2208	2212	2305	S21	E42	.764	14962	30.1	57	-N						EGHJ
CULG	26	2208	2212	2300	S22	E42	.769	14962	30.1	52	-F	C	2212	40	.6		
VORO	26	2241E		2310	S20	E42	.758	14962	30.1	290	-B	P	2244	108	1.6	EGHJ	
680 CULG	26	2335	2339	2357	S23	H60	.912	14952	22.5	22	-F	C	2339	20	.5	Y5	
GRP64681	27	0113+2	0135+5	0157	S21	E41	.754	14962	30.1	44	-N						EGJ
VORO	27	0113	0135	0153	S21	E42	.764	14962	30.2	40	1N	C	0135	179	2.7	EGJ	
CULG	27	0115	0140	0200	S22	E40	.751	14962	30.1	45	-N	C	0140	40	.6		
682 CULG	27	0442	0446	0458	S24	H88	1.000	14964	20.6	16	-F	C	0446	40		Y5	
GRP64683	27	0517+0	0522+1	0558	S21	E36	.707	14962	29.9	41	-F			50	.7	EG	
CULG	27	0517	0522	0558	S22	E36	.714	14962	29.9	41	-N	C	0522	60	.9		
MITK	27	0517	0523	05380	S21	E37	.717	14962	30.0	210	-F	C	0523	50	.7	EG	
684 HTPR	27	0656E		0705	N14	E58	.842	14963	1.6	90	-F	C	0659	20	.3	E Y5	
685 HTPR	27	0820	0832	0845	S22	E38	.733	14962	30.2	25	-F	C	0832	20	.2	Y5	
GRP64686	27	0845+1	0849+1	0854	S23	H58	.899	14952	23.0	9	-F						
MONT	27	0845	0850	0854	S23	H57	.893	14952	23.1	9	-N	C	0850	70			
HTPR	27	0846	0849	0853	S24	H59	.908	14952	22.9	7	-F	C	0849	20	.3		
687 MONT	27	0938	0940	0943	S23	H57	.893	14952	23.1	5	-F	C	0940	20		D Y5	
688 MONT	27	1011	1017	1032	N14	E58	.842	14963	1.8	21	-N	C	1017	60		E Y5	
689 MONT	27	1106	1118	11450	N14	E58	.842	14963	1.8	390	-N	C	1118	60		Y5	
690 MONT	27	1108	1120	11450	S25	H86	1.000	14964	21.0	370	-F	C	1120	20		D Y5	
691 HTPR	27	1230	1241	1253	S23	H86	1.000	14964	21.1	23	-F	C	1241	10		Y5	
692 ZURI	27	1338E	1355	1429	S22	H82	.997	14964	21.4	510	-N	P	1355	20		Y5	
GRP64693	27	1406+1	1417+5	1455	S20	E31	.652	14962	29.9	49	-F			35	.5	E	
MCMA	27	1406	1422	1505	S21	E32	.665	14962	30.0	59	-N	C	1422	50	.6	E	
ZURI	27	1407	1417	1445	S20	E31	.652	14962	29.9	38	-F	C	1417	20	.3		
GRP64694	27	1435+2	1437+5	1447	S22	H85	.999	14964	21.2	12	-F			15			
ZURI	27	1435	1437	1445	S22	H82	.997	14964	21.5	10	-N	C	1437	20			
HTPR	27	1437	1442	1448	S23	H88	1.000	14964	21.0	11	-F	C	1442	10	.2		
GRP64695	27	1501+8	1509	1526	S21	H84	.999	14964	21.3	25	-F						D
ZURI	27	1501	1509	1533	S22	H82	.997	14964	21.5	32	-N	C	1509	10			
HUAN	27	1509	1517	1518	S21	H87	1.000	14964	21.1	9	-F	1 C	1517	20		D	
GRP64696	27	1531+0	1544	1558	N14	E54	.804	14963	.7	27	-N			40	.7	E	
ZURI	27	1531	1544	15530	N14	E54	.804	14963	1.7	220	-N	P	1544	40	.7		
HUAN	27	1531	1554	16020	N14	E55	.813	14963	1.8	23	-F	1 C				E	
MCMA	27	1537E			N14	E54	.804	14963	1.7	250	-B	C	1548	40	.7	E	
697 HUAN	27	1759		1837	S21	H87	1.000	14964	21.2	38	-F	1 C				Y5	
698 PALE	27	1822	1832	18500	N15	E50	.762	14963	1.5	280	-N	3 C		44		F0E Y5	
	27	1950	2026	NO FLARE PATROL													
GRP64699	27	2150+0	2155+0	2220	N15	E48	.740	14963	.5	30	-F			50	.8		
PALE	27	2150	2155	2220	N15	E48	.740	14963	1.5	30	-F	3 C		51		F0E	
PALE	27	2150	2155	2220	N15	E48	.740	14963	1.5	30	-F	3 V		51		F0E	
GRP64700	27	2329E	2349	0118	N15	E47	.728	14963	.5	109	-N						
HANI	28	0005E	00100	01180	N16	E48	.741	14963	1.6	730	-N	2 C	0010	130	2.0		
PALE	27	2329E	2439	0120	N15	E47	.728	14963	1.5	1110	-N	3 C		163		F0E	
PALE	27	2329E	2349	0008	N15	E47	.728	14963	1.5	390	-F	3 V		113		F0E	
701 PALE	28	0137	0139	0230	N15	E45	.705	14963	1.4	53	-F	3 C		131		F0E Y5	
702 CULG	28	0208	0216	0235	S22	H67	.949	14952	23.1	27	-F	C	0216	20		Y5	

H α SOLAR FLARES

SEPTEMBER 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS. COND	TYPE	MEASUREMENTS			REMARKS
	DATE SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP. DAY					TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
703 CULG	28	0230	0243	0257	S32	E29	.740	14966	30.3	27	-F	C	0243	20	.3	Y5	
704 CULG	28	0541	0550	0605	S27	W85	1.000	14964	21.9	24	?N	C	0550	100		Y5	
GRP64705	28	0810>9	0815	0851	S22	W90	1.001	14964	21.6	41	-F					D	
			0825														
MONTECATA	28	0810E	0815	0841	S23	W90	1.001	14964	21.6	310	-F	C	0815	20		D	
	28	0825	0825	09000	S22	W90	1.001	14964	21.6	350	-F	2	0825	56		D	
GRP64706	28	1010	1015	1034	S22	W90	1.001	14964	21.7	24	-F			25		D	
CATA	28	1010	1015	1035	S21	W90	1.001	14964	21.7	25	-F	2	1015	28		D	
MONTECATA	28	1019E	1019	1033	S23	W90	1.001	14964	21.7	140	-F	C	1019	20		D	
707 KANZ	28	1439	1443	1448	N14	E41	.655	14963	1.7	9	-F	C				Y5	
708 KANZ	28	1509		15090	N13	E42	.666	14963	1.8		-F	C				Y5	
709 HUAN	28	1821		1830	N17	E37	.605	14963	1.5	9	-F	1	C	1822	40	.6	Y5
710 PALE	29	0058	0102	0117	N15	E34	.564	14963	1.6	19	-F	3	C		33		F0E Y5
711 PALE	29	0206	0218	0220	N15	E33	.550	14963	1.6	14	-F	3	C		41		F0E Y5
GRP64712	29	0620	0627+3	0741	N15	E31	.522	14963	.6	81	-N					F	
			0737														
CULG	29	0620	0630	0720	N14	E31	.515	14963	1.6	60	-N	C	0630	40	.5	F	
TEHR	29	0623E	0627	0634	N16	E30	.511	14963	1.5	110	-N	3	C	159			
BUCA	29	0702E	0805		N14	E31	.519	14963	1.6	630	-N	P	0710	107	1.3		
KANZ	29	0726E	0737	0801	N15	E31	.522	14963	1.6	350	-F	C					
713 KANZ	29	0916		09160	N12	E28	.471	14963	1.5		-F	C				D Y5	
GRP64714	29	1114	1126+1	1146	N14	E31	.519	14963	.8	32	-F						
MONTECATA	29	1114	1126	1146	N15	E31	.522	14963	1.8	32	-F	C	1126	40		E	
KANZ	29	1123E	1127	1146	N14	E31	.519	14963	1.8	230	-F	C				D	
	29	1905	1935														
	29	2025	0031														
	30	0034	0105														
	30	0110	0145														
	30	0155	0207														
	30	0214	0229														
	30	0234	0242														
715 CULG	30	0315E	0321	03340	N13	E21	.368	14963	1.7	190	-N	P	0321	80	.8	Y5	
716 TEHR	30	0612	0619	06220	N14	E20	.357	14963	1.8	100	-F	3	V	190			U F Y5
717 MONTECATA	30	0758	0800	0805	N16	W45	.707	14968	27.0	7	-F	C	0800	20		D Y5	
GRP64718	30	1111+2	1115+2	1123	N16	E14	.284	14963	.5	12	-N						
ZURI	30	1111	1115	1123	N17	E13	.281	14963	1.4	12	-N	C	1115	20	.2		
MONTECATA	30	1111	1117	1139	N16	E16	.312	14963	1.7	28	-N	C	1117	80		E	
KANZ	30	1113	1117	1123	N16	E14	.284	14963	1.5	10	-N	C				D	
719 ZURI	30	1249	1303	1317	N14	E13	.253	14963	1.5	28	-F	C	1303	20	.2	Y5	
720 HUAN	30	1712		17130	N17	E11	.256	14963	1.5	10	-F	1	P				E Y5
	30	1820	1828														
	30	1858	1903														
	30	1908	1916														
	30	1942	2035														
	30	2124	2134														
GRP64721	30	2221+6	2228+0	2247	N17	W53	.795	14968	27.0	26	-N			70	1.2		
CULG	30	2221	2228	2258	N18	W54	.806	14968	26.9	37	-N	C	2228	80	1.3		
VORO	30	2227	2228	2235	N16	W53	.795	14968	27.0	8	-B	C	2228	63	1.0		
GRP64722	30	2300+2	2302+1	2314	S23	E47	.817	14970	3.5	14	-N			30	.5	D	
CULG	30	2300	2302	2320	S24	E47	.821	14970	4.5	20	-N	* C	2302	25	.4		
VORO	30	2302	2303	2308	S22	E48	.820	14970	4.6	6	-B	* C	2303	27	.4	D	

"Remarks":

- A = Eruptive prominence whose base is less than 90° from central meridian.
- B = Probably the end of a more important flare.
- C = Invisible 10 minutes before.
- D = Brilliant point.
- E = Two or more brilliant points.
- F = Several eruptive centers.
- G = No visible spots in the neighborhood.
- H = Flare accompanied by a high speed dark filament.
- I = Active region very extended.
- J = Distinct variations of plage intensity before or after the flare.
- K = Several intensity maxima.
- L = Existing filaments show signs of sudden activity.
- M = White-light flare.

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