

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
526 CULG	01	0329	0338	0405	N27	W14	.424	16171	31.1	37	? F	C	0338	260	2.9	FV	ZX
	IMP.1	NO	FURP	MITK	PALE												
GRP76527	01	0427+3	0430+2	0440	S23	E02	.482	16174	1.3	13	-N						
PURP	01	0427	0430	0440	S24	E02	.497	16174	1.3	13	-F	C					
CULG	01	0427	0430	0448	S21	W02	.452	16174	1.0	21	-B	C	0430	130	1.4		
PALE	01	0430	0432	0436	S23	E02	.482	16174	1.3	6	-N	3 C		50		DE	
528 CULG	01	0516	0522	0535	S20	E43	.760	16186	4.4	19	-F	C	0522	100	1.6		ZX
529 CULG	01	0523	0530U	0606	N26	W15	.419	16171	31.1	43	-F	C	0530	120	1.3		ZX
530 CULG	01	0605	0608	0615	S09	W58	.863		27.9	10	-F	C	0608	40	.8		ZX
GRP76531	01	0625+3	0629+1	0707	S12	E08	.333	16175	1.9	42	1N						JV
CATA	01	0625E	0630	0710	S12	E07	.327	16175	1.8	45D	-B	2 P	0630	140	1.5		
HTRP	01	0627	0630	0705	S12	E08	.323	16175	1.9	38	-N	C	0630	70	.7		E
ABST	01	0628	0629	0656	S12	F09	.340	16175	1.9	28	1N	C	0628	244	2.7		FJV
CULG	01	0638E	0638E	0708D	S13	E08	.348	16175	1.9	30D	2N	P	0638	520	5.5		
532 CULG	01	0659	0704	0707	N09	E23	.391		3.0	8	-N	C	0704	60	.7		ZX
GRP76533	01	0856+4	0858+2	1025	S14	E06	.353	16175	1.8	89	-B						FJKU
			1009+2														
HTRP	01	0856	0858	1055	S12	F05	.317	16175	1.7	119	-N	C	0858	40	.4		EKU
ABST	01	0856	0858	1008D	S13	E05	.332	16175	1.7	72D	-N	P	0858	166	1.8		DJ
CATA	01	0900	0900	0920	S12	F06	.321	16175	1.8	20	-N	2 C	0900	67	.7		
HTRP	01	0927	1009	1055	S16	E04	.377	16175	1.7	88	-B	C	1009	30	.3		E
KANZ	01	0930E	1111	1035	S14	E06	.353	16175	1.8	65D	-B	2					
ABST	01	0932	1003	1008D	S15	E07	.373	16175	1.9	36D	-N	P	1003	87	1.0		FJK
ATHN	01	1008E	1033	1033	S14	F09	.370	16175	2.1	25D	-B	3 C		80			F
534 KANZ	01	1039	1047	1055	N24	F85	.993	16191	7.8	16	-F	2					ZX
GRP76535	01	1113+7	1118+2	1205	S13	E04	.329		1.8	52	-B						U
HTRP	01	1113	1118	1205	S13	E04	.329		1.8	52	-N	C	1118	110	1.2		U
CATA	01	1120	1120	1150D	S13	F05	.332		1.8	30D	1B	2 P	1120	393	4.3		
GRP76536	01	1405+9	1414+7	1440	S13	E02	.324	16175	1.7	35	-N						EK
HOLL	01	1405	1421	1510	S13	E00	.322	16175	1.6	65	1B	3 C		213			F0E
RAMY	01	1407E	1414U	1416D	S12	E01	.306	16175	1.7	9D	-B	2 C		72			F
HUAN	01	1412	1457	1457	S12	E03	.309	16175	1.8	45	-N	1 C	1415	40	.4		E
HTRP	01	1412	1420	1510	S13	E02	.324	16175	1.7	58	-N	C	1420	40	.4		EK
LVOV	01	1414	1421	1453	S09	E03	.260	16175	1.8	39	1N	C	1421	300	3.2		EKC
KANZ	01	1416	1420	1432	S13	F03	.326	16175	1.8	16	-N	2					
BIGB	01	1416	1417	1429	S13	E04	.329	16175	1.9	13	-N	2 C	1417	90	.9		
GRP76537	01	1441+2	1443+0	1507	S13	E03	.326	16175	1.8	26	-N			70	.7		KU
			1458														
BIGB	01	1441	1443	1507	S13	E04	.329	16175	1.9	26	-N	2 C	1443	50	.5		
HTRP	01	1441	1443	1510	S14	E02	.340	16175	1.8	29	-F	C	1443	90	1.0		KU
HTRP	01	1441	1458	1510	S14	E02	.340	16175	1.8	29	-F	C	1458	10	.1		DK
KANZ	01	1443	1443	1507	S13	E03	.326	16175	1.8	24	-N	2					
GRP76538	01	1601+5	1607+7	1637	S17	W65	.928	16169	27.8	36	-N						
KANZ	01	1601	1611	1637	S17	W64	.922	16169	27.9	36	-N	2					
BIGB	01	1602	1607	1645	S17	W65	.928	16169	27.8	43	-N	2 C	1607	70			
ZURI	01	1606	1614	1634	S18	W65	.929	16169	27.8	28	1F	C	1614	100			
539 KANZ	01	1641	1641	1649	N20	E08	.279	16177	2.3	8	-F	2					ZX
GRP76540	01	1644+2	1647+5	1702	S12	00	.305	16175	1.7	18	-B			60	.6		CY
HTRP	01	1633	1651	1658	S12	E00	.305	16175	1.7	25	-B	* C	1651	10	.1		DY
HOLL	01	1644	1647	1703	S13	W01	.322	16175	1.6	19	-B	* C		78			
KANZ	01	1645	1649	1705	S12	E01	.306	16175	1.8	20	-B	* C					
ZURI	01	1646	1652	1700	S12	F01	.306	16175	1.8	14	-N	* C	1652	60	.7		
GRP76541	01	1754+5	1800+1	1818	S13	W01	.322	16175	1.7	24	-N			60	.6		
HTRP	01	1754	1800	1806D	S12	E00	.305	16175	1.7	12D	-N	C	1800	40	.4		E
HOLL	01	1758	1800	1818	S13	W02	.324	16175	1.6	20	-B	3 C		127			FDE
HUAN	01	1759	1800	1814	S13	F02	.324	16175	1.9	15	-N	2 C	1800	60	.6		E
PALE	01	1800E	1801U	1820D	S13	W02	.324	16175	1.6	20D	-B	3 C					FDE
GRP76542	01	1835+3	1837+3	1850	S13	W02	.324	16175	1.6	15	-B			80	.8		FDE
PALE	01	1835E	1837U	1850D	S13	W02	.324	16175	1.6	15D	-B	3 C					FDE
HOLL	01	1837	1839	1851	S13	W02	.324	16175	1.6	14	-B	3 C		113			FDE
BIGB	01	1838	1840	1844	S12	F00	.305	16175	1.8	6	-B	2 C	1840	50	.5		

H α SOLAR FLARES

AUGUST 1979

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
543 BIGB	01	1920	1924	1932	N20	E07	.272	16177	2.3	12	-F	3	C	1924	40	.4	ZX
544 BIGB	01	2001	2009	2017	N25	E80	.980	16191	7.8	16	-N	3	C	2009	20		ZX
545 BIGB	01	2022	2024	2032	N11	E26	.442	16162	3.8	10	-F	3	C	2024	20	.2	ZX
GRP76546	01	2027	2028	2042	N16	W36	.598	16171	30.2	15	-N				30	.4	C
HOLL	01	2027	2028	2039	N15	W36	.595	16171	30.2	12	-N	3	C		36		
HUAN	01	2032E		20450	N17	W37	.614	16171	30.1	13D	-F	1	P	2033	20	.2	O
GRP76547	01	2046+0	2046+3	2055	S12	W02	.307	16175	1.7	9	-B				20	.2	K
BIGB	01	2046	2049	2055	S11	W01	.289	16175	1.8	9	-B	3	C	2049	20	.2	K
HOLL	01	2046	2046	2055	S13	W03	.326	16175	1.6	9	-B	3	C		23		
GRP76548	01	2107+1	2108+4	2120	S24	W03	.499	16174	1.7	13	-N				40	.5	H
HOLL	01	2107	2108	2117	S24	W03	.499	16174	1.7	10	-B	3	C		35		
VORO	01	2107	2112	2122	S24	W03	.499	16174	1.7	15	-N		C	2112	116	1.3	H
BIGB	01	2108	2111	2120	S24	W03	.499	16174	1.7	12	-N	3	C	2111	30	.3	
GRP76549	01	2202+1	2204+1	2216	S11	W02	.290	16175	1.8	14	-N				90	.9	DK
VORO	01	2202	2205	2216	S12	W03	.309	16175	1.7	14	-B		C	2205	90	.9	O
CULG	01	2202	2204	2217	S11	W02	.290	16175	1.8	15	-N		C	2204	120	1.3	
BIGB	01	2203	2204	2215	S11	W01	.289	16175	1.8	12	-N	3	C	2204	20	.2	K
GRP76550	01	2217+2	2220+1	2232	S13	W05	.332	16175	1.6	15	-N						E
CULG	01	2217	2220	2230	S13	W07	.342	16175	1.4	13	1F		C	2220	270	2.9	
VORO	01	2219	2220	2234	S13	W04	.329	16175	1.6	15	-N		C	2220	134	1.4	E
BIGB	01	2219	2221	2232	S14	W05	.348	16175	1.6	13	-N	3	C	2221	70	.7	
551 BIGB	01	2226	2231	2257	N24	E80	.980	16191	7.9	31	-N	3	C	2231	30		ZX
552 CULG	01	2311	2315	2327	S12	W07	.327	16175	1.4	16	-F		C	2315	30	.3	ZX
553 CULG	02	0001	0006	0024	S12	W03	.310	16175	1.8	23	-F		C	0006	40	.4	ZX
554 CULG	02	0008	0009	0019	N21	E03	.266	16177	2.2	11	-F		C	0009	40	.4	ZX
555 CULG	02	0105	0129	0144	S12	E62	.900	16192	6.7	39	?F		C	0129	100	2.3	T
		IMP.1 NO	FALE	PURP	VORO												ZX
GRP76556	02	0455	0458+4	0513	N23	W21	.447	16171	31.6	18	-N						EGJ
CULG	02	0455	0458	0513U	N25	W21	.466	16171	31.6	180	-N		C	0458	60	.7	
ABST	02	0500E	0502	0513	N22	W22	.449	16171	31.6	130	1F		P	0502	183	2.1	EGJ
557 ISTA	02	0604E		0620	S13	W04	.330	16175	2.0	160	-F		V				D
																	ZX
GRP76558	02	0622+5	0632	0647	N16	W42	.674	16171	30.1	25	-F						J
ABST	02	0622	0632	0649	N19	W42	.681	16171	30.1	27	1F		C	0632	175	2.4	EJ
ISTA	02	0627		0645	N14	W43	.683	16171	30.0	18	-F		V				D
GRP76559	02	0807+7	0815+3	0840	S23	W09	.502	16174	1.7	33	-F						EJ
HTPR	02	0807	0815	0840	S24	W10	.521	16174	1.6	33	-F		C	0815	30	.3	E
KANZ	02	0814	0818	0825	S23	W09	.502	16174	1.7	11	-N	3					
ABST	02	0814E	0816	0842	S22	W09	.488	16174	1.7	280	1F		P	0816	175	2.1	EJ
GRP76560	02	0845+4	0900+9	0945	N24	E74	.956	16191	7.9	60	1N						OGHLW
			0940														
YUNN	02	0845	0910	0935	N25	E78	.973	16191	8.2	50	1F		C		80		
HTPR	02	0847	0901	1000	N24	E75	.961	16191	8.0	73	-F		C	0901	10	.2	CW
ABST	02	0848	0904	1002	N25	E79	.977	16191	8.3	74	1N		C	0904	87		DFW
PURP	02	0848	0900	0904	N26	E66	.913	16191	7.3	16	-N		P				G
KANZ	02	0849	0940	1003	N23	E72	.946	16191	7.8	74	1N	3					
KHAR	02	0900E	0906	09500	N25	E73	.952	16191	7.9	500	1N		P	0903			HLT
CATA	02	0905	0910	0920	N23	E74	.956	16191	7.9	15	-N	2	C	0910	28		
561 KHAR	02	1025E		10550	N25	E73	.952	16191	7.9	300	-F		V	1025			LT
																	ZX
GRP76562	02	1048+4	1052+3	1108	S24	W10	.521	16174	1.7	20	-F						E
KANZ	02	1048	1055	1115	S24	W10	.521	16174	1.7	27	-N	3					
HTPR	02	1051	1052	1101	S25	W12	.544	16174	1.6	10	-F		C	1051	20	.2	E
KHAR	02	1052	1054	11000	S23	W10	.507	16174	1.7	80	-F		P	1053			
563 ZURI	02	1153	1155	11570	N17	W44	.700	16171	30.2	40			P	1155	200	2.9	ZX
		IMP.1 NO	KANZ	HTPR	LVOV												
564 HOLL	02	1316	1316	1334	N15	W45	.706	16171	30.2	18	-N	3	C		35		ZX

52
Aug 79

H α SOLAR FLARES

AUGUST 1979

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP76565	02	1517+2	1522+0	1544	N24	E71	.941	16191	8.0	27	-B				50			E
MCMA	02	1517		15470	N24	E72	.947	16191	8.0	300	-N	C	1520	40	1.2			E
KANZ	02	1518	1522	15290	N24	E71	.941	16191	8.0	110	-B	3						
BIGB	02	1519	1522	1541	N24	E70	.936	16191	7.9	22	-B	2	C	1522	60			
566 BIGB	02	1720	1721	1805	N25	E70	.936	16191	8.0	45	-N	3	C	1721	20			ZX
567 BIGB	02	1737	1740	1759	N18	W48	.747	16171	30.1	22	-F	2	C	1740	30			ZX
568 BIGB	02	1808	1811	1832	N25	E70	.936	16191	8.0	24	-B	3	C	1811	20			O ZX
569 HOLL	02	1821	1852	1859	S07	E68	.934	16192	7.9	38	-N	3	C		20			ZX
570 HUAN	02	1926		1930	S10	F67	.931	16192	7.8	4	-F	1	C	1927	15			D ZX
GRP76571	02	1941+3	1948	1951	S10	E64	.911	16192	7.6	10	-F							
HUAN	02	1941E		1947	S11	E65	.919	16192	7.7	60	-F	1	P					
BIGB	02	1944	1948	1954	S10	E64	.911	16192	7.6	10	-N	3	C	1948	40			
572 HOLL	02	1951	1951	2009	N15	W49	.754	16171	30.2	18	-B	3	C		20			F ZX
GRP76573	02	2105	2105	2121	N15	W51	.776	16171	30.1	16	-B				90	1.4		
HOLL	02	2105	2105	2121	N15	W51	.776	16171	30.1	16	-B	3	C		82			FDE
PALE	02	2109E	2109U	21110	N15	W51	.776	16171	30.1	20	-B	3	C		100			FDE
574 BIGB	02	2215	2216	2222	S10	E64	.911	16192	7.7	7	-N	3	C	2216	40	.9		ZX
575 CULG	02	2301	2316U	2332	S12	F63	.907	16192	7.7	31	?F		C	2316	120	2.7		T ZX
		IMP.1	NO :	EIGB														
576 CULG	03	0109	0117	0141	S12	E60	.885	16192	7.5	32	?F		C	0117	160	3.6		T ZX
		IMP.1	NO :	EIGB														
				VORO														
577 CULG	03	0250	0252	0303	S23	W26	.622	16174	1.2	13	-N		C	0252	50	.7		ZX
578 CULG	03	0434	0438	0448	N30	W88	.997	16190	27.6	14	-N		C	0438	30			J ZX
579 CULG	03	0507	0509	0520	S13	W18	.439	16175	1.9	13	-F		C	0509	40	.4		ZX
580 ABST	03	0508	0532	0552	N17	W56	.827	16171	30.0	44	-F		C	0532	87	1.5		DJK ZX
581 ABST	03	0600	0607	0613	N24	E61	.876	16191	7.8	13	-N		C	0607	87			O ZX
582 ABST	03	0614	0615	0622	N27	W71	.942	16196	28.9	8	?F		C	0615	87			OJ ZX
		IMP.1	NO :	WENO														
				HTPR														
583 ABST	03	0658	0700	0706	N28	W88	.997	16190	27.7	8	?F		C	0700	87			ADJ ZX
		IMP.1	NO :	HTPR														
				CATA														
584 ABST	03	0716	0718	0731	N27	W71	.942	16196	29.0	15	?F		C	0718	87			OJ ZX
		IMP.1	NO :	HTPR														
				CATA														
585 KANZ	03	0759	0807	0819	N28	W86	.994	16190	27.9	20	-F	3						ZX
586 KHAR	03	0830E		08500	N24	W77	.969	16196	28.6	200	-F		P	0830				T ZX
GRP76587	03	0848+3	0852+2	0906	N35	W11	.512	16195	2.5	18	-N				80	.9		EG
KANZ	03	0831	0852	08560	N34	W11	.498	16195	2.5	250	-N	3						G
TFLV	03	0848	0853	0907	N38	E03	.533	16195	3.6	19	-N	3	C	0853	60	.6		G
ABST	03	0851	0854	0904	N35	W11	.512	16195	2.5	13	-F		C	0854	105	1.2		EG
588 KHAR	03	0852E		09050	S08	E58	.862	16192	7.7	130	-F		V	0852				ZX
589 KHAR	03	0905E	0905	09100	N27	E60	.872	16191	7.9	50	-F		V	0905				DT ZX
590 KHAR	03	0915E		09400	N17	W60	.863	16171	29.9	250	-F		V	0915				ET ZX
591 KHAR	03	0915E	0924	09530	N24	W77	.969	16196	28.6	380	?F	*	P	0924				T ZX
		IMP.1	NO :	HTPR														
				ABST														
592 KHAR	03	0930E	0931	0942	N25	W88	.997	16190	27.8	120	-N		V	0930				D ZX
GRP76593	03	1018+2	1019	1028	N17	W56	.827	16171	30.2	10	-F							D
HTPR	03	1018	1019	1024	N17	W56	.827	16171	30.2	6	-F		C	1019	10	.2		D
KANZ	03	1020		1031	N18	W56	.828	16171	30.2	11	-F	1						
594 KHAR	03	1034E	1036	10580	N25	W88	.997	16190	27.8	240	-F		P					O ZX

H α SOLAR FLARES

AUGUST 1979

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.				
					LAT.	MER. DIST.														
GRP76595	03	1038+1	1040+1	1050	N25	E60	.869	16191	7.9	12	-F									
TELV	03	1038	1040	1050	N09	E60	.862	16191	7.9	12	-N	3	C							
KHAR	03	1039E	1040	10520	N27	E60	.872	16191	7.9	130	-F		P	1045	80	1.6		C		
HTPR	03	1039	1041	1050	N25	E60	.869	16191	7.9	11	-F		C	1041	20	.4		C		
596 KHAR	03	1040E		1108C	N18	W62	.879	16171	29.8	280	-F		P	1047	100			EH ZX		
597 KHAR	03	1125E	1127	11300	N27	F59	.864	16191	7.9	50	-F		V	1127				EH ZX		
	03	1150	1202	NO FLARE PATROL																
GRP76598	03	1210+9	1250	12550	N27	W77	.969	16196	28.7	45	-N								OJK	
MCMA	03	1210E		12550	N27	W79	.976	16196	28.6	450	-N		C	1221					OJK	
ZURI	03	1246	1250	12520	N27	W76	.965	16196	28.8	60	-N		P	1250	40					
599 HOLL	03	1340	1401	1415	N25	W77	.969	16196	28.8	35	-N	3	C		20				ZX	
GRP76600	03	1612+3	1616+3	1627	N26	W79	.976	16196	28.7	15	-N				40					
MCMA	03	1612	1616	1621	N27	W81	.983	16196	28.6	9	-N		C	1616						
BIGB	03	1613	1616	1627	N25	W80	.980	16196	28.7	14	-N	3	C	1616	60					
HOLL	03	1614	1616	1626	N25	W80	.980	16196	28.7	12	-N	3	C							
HTPR	03	1615	1616	1628	N26	W77	.969	16196	28.9	13	-F		C	1616	40					
HUAN	03	1617E		1628C	N26	W78	.973	16196	28.8	110	-N	1	P	1620	20				C	
601 BIGB	03	1706	1710	1718	N25	W80	.980	16196	28.7	12	-N	3	C	1710	30				ZX	
602 BIGB	03	1805	1809	1821	N25	W80	.980	16196	28.8	16	-N	3	C	1809	40				ZX	
603 CULG	04	0038	0042	0100U	N23	E50	.777	16191	7.8	220	-F		C	0042	60	1.0		F	ZX	
604 CULG	04	0209	0216	0225	N25	E52	.801	16191	8.0	16	-N		C	0216	80	1.4			ZX	
605 CULG	04	0249	0305	0313	N25	E50	.782	16191	7.9	24	-F		C	0305	40	.6			ZX	
606 CULG	04	0421	0432	0442	S32	W37	.78E		1.4	21	-F		C	0432	100	1.6			ZX	
607 CULG	04	0447	0453	0551	N24	E49	.770	16191	7.9	64	-F		C	0453	60	1.0		F	ZX	
608 ABST	04	0512	0521	0532	N17	W70	.935	16171	30.0	20	-F		C	0521	79			DJ	ZX	
GRP76609	04	0544+3	0547+2	0558	S12	E43	.724	16192	7.5	14	-F				60	.9			CG	
CULG	04	0544	0547	0602	S12	E43	.724	16192	7.5	18	-F		C	0547	40	.6			CG	
ABST	04	0547	0549	0554	S13	E44	.739	16192	7.5	7	-F		C	0549	87	1.3			CG	
610 ABST	04	0606	0616	0630	N25	E51	.791	16191	8.1	24	-F		C	0616	87	1.4		DJ	ZX	
611 ABST	04	0618	0621	0624	N27	W89	.998	16196	28.6	6	? F		C	0621	79			ADJ	ZX	
		IMP.1 NO : CULG																		
612 ISTA	04	0650E		0718	S14	W35	.644	16175	1.7	280	-3		V						C	ZX
GRP76613	04	0706+7	0716	0732	N26	E50	.784	16191	8.0	26	-N								EJ	
ABST	04	0706	0716	0733	N26	E52	.803	16191	8.2	27	1F		C	0716	218	3.6			EJ	
ISTA	04	0713		0730	N26	E48	.765	16191	7.9	17	-N		V						E	
614 ABST	04	0723	0726	0747	N27	W89	.998	16196	28.6	24	? F		C	0726	79			ADJ	ZX	
		IMP.1 NO : HTPR																		
615 ABST	04	0819	0827	0846	N26	F50	.784	16191	8.1	27	-F		C	0827	87	1.4		DJ	ZX	
616 KHAR	04	1013E		1017D	N26	W90	.999	16196	28.7	40	-F		V	1015				H	ZX	
617 HUAN	04	1941		1945	N26	W90	.999	16196	29.1	4	-F	1	C	1941	20			D	ZX	
GRP76618	04	2019+1	2021+1	2036	S13	W42	.717	16175	1.7	17	-3				70	1.0				
HOLL	04	2019	2021	2033	S14	W43	.733	16175	1.6	14	-3	2	C		93				CF	
PALE	04	2020	2022U	2039	S13	W42	.717	16175	1.7	19	-3	2	C		61				F	
	04	2103	2113	NO FLARE PATROL																
619 CULG	04	2313	2319	2328	N19	W77	.969	16171	30.2	15	-F		C	2319	40				ZX	
620 HOLL	04	2323	2324	2335	N06	W30	.497	16176	2.7	12	-N	2	C		21				ZX	
621 CULG	05	0103	0112	0137	S25	W55	.881	16174	31.9	34	-F		C	0112	60	1.2			ZX	
622 CULG	05	0148	0151	0157	N19	W80	.980	16171	30.1	9	-F		C	0151	30				ZX	

54
Aug 79

H α SOLAR FLARES
AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk			CORR AREA Sq. Deg.	
					LAT.	NER. DIST.													
E23 ABST	05	0603E	0609	0613D	N06	W35	.571	16176	2.6	100	-F	P	0609	87	1.1	DJ	ZX		
GRP76624	05	0633+1	0635+1	0643	N18	W85	.993	16171	29.9	10	-N			60			AD		
ATHN	05	0633E	0635	0640	N19	W80	.980	16171	30.3	70	-N	1	0635	49	2.0		AC		
ABST	05	0634	0636	0643	N17	W89	.999	16171	29.6	9	1N	C	0636	87					
CULG	05	0635E	0635U	0643	N18	W85	.993	16171	29.9	80	-B	P	0635	40					
625 ISTA	05	0730E		0745	N16	W90	1.000	16171	29.6	150	-N	V					AB	ZX	
626 ABST	05	0848E	0856	0906D	N06	W36	.585	16176	2.7	180	-F	P	0856	140	1.8		EJ	ZX	
627 KHAR	05	0933E	0934	0954D	N26	W90	.999	16196	29.6	210	-N	P					H	ZX	
628 TELV	05	1048	1055	1109	N09	E43	.678		8.7	21	-N	3	C	1055	50	.7		G	ZX
629 KHAR	05	1052E	1053	1100D	N23	E42	.692	16204	8.6	80	-F	P	1053				O	ZX	
630 LVOV	05	1408	1408	1453	S27	E80	.994	16206	11.6	45	?F	C	1408	150			CO	ZX	
		IMP.1 NO	:	KANZ		HUAN													
631 LVOV	05	1408	1408	1447	N08	W38	.612	16176	2.7	39	?F	C	1408	250	3.3		EC	ZX	
		IMP.1 NO	:	KANZ		HUAN													
GRP76632	05	1436+8	1444+2	1455	S16	E79	.988	16205	11.5	25	-N						D		
LVOV	05	1430	1446	1453	S17	E80	.991	16205	11.6	23	1F	C	1446	200			CO		
KANZ	05	1437	1444	1458	S16	E79	.988	16205	11.5	21	-N	2							
BIGB	05	1438	1445	1455	S15	E78	.985	16205	11.5	17	-B	2	C	1445	20				
633 BIGB	05	2055	2059	2104D	N05	W44	.692	16176	2.6	90	-N	1	P	2059	70	1.0		ZX	
	05	2255	2330	NO FLARE PATROL															
634 ABST	06	0651	0657	0715	N21	W90	.999	16171	30.5	24	?F	C	0657	87			AD	ZX	
		IMP.1 NO	:	FURP		WEND		CATA											
635 ABST	06	0712	0716	0723	S28	W69	.964	16174	1.1	11	?F	C	0716	87			DJ	ZX	
		IMP.1 NO	:	FURP		WEND		CATA											
GRP76636	06	0831+4	0833+2	0900	N07	W55	.815	16176	2.2	29	-N								
			0844+1																
KANZ	06	0831	0835	0907	N07	W55	.815	16176	2.2	36	-N	2					F		
WEND	06	0831	0845	0904C	N07	W57	.835	16176	2.1	330	-N		C	0845	30	.6		CD	
WEND	06	0831		0853	N09	W54	.805	16176	2.3	22	-F		C	0845	15	.3		CD	
PURP	06	0832	0833	0852	N05	W49	.752	16176	2.7	20	1F		C						
ABST	06	0832	0844	0856	N06	W55	.816	16176	2.2	24	1F		C	0844	148	2.7		E	
CATA	06	0835	0845	0845D	N07	W55	.815	16176	2.2	100	-N	2	P	0845	56	1.0			
GRP76637	06	1007+9		1211	N18	E90	.999	16213	13.2	124	1N							A	
KANZ	06	1007		1206	N16	E90	1.000	16213	13.2	119	-B	2						A	
WEND	06	1056		1216D	N25	E84	.990	16213	12.8	800	-N		C		40			A	
CATA	06	1110E	1110	1145D	N18	E90	.999	16213	13.2	350	2F	2	P	1110	224				
	06	2059	2258	NO FLARE PATROL															
	06	2333	0800	NO FLARE PATROL															
638 CULG	06	2333E	2333E	0010	S16	W37	.679	16186	4.2	37D	-F	C	2333	30	.4			ZX	
639 CULG	07	0118	0122	0144	S17	W38	.696	16186	4.2	26	-F	C	0122	30	.4			ZX	
640 CULG	07	0220E	0222	0257D	N14	W73	.951	16177	1.6	370	-N	P	0222	60			C	ZX	
641 ABST	07	0505E	0505	0512	N15	E89	.999	16208	13.9	70	?F	P	0505	87			D	ZX	
		IMP.1 NO	:	FURP															
642 CULG	07	0514E	0514E	0526	S18	E88	1.000		13.8	120	?N	P	0514	80			C	ZX	
		IMP.1 NO	:	FURP		ABST													
643 ABST	07	0721E	0734	0739D	N12	W79	.978	16177	1.4	18D	?F	P	0734	157			E	ZX	
		IMP.1 NO	:	FURP		CATA		WEND		HTPR									
644 KHAR	07	1004E	1005	1012D	S22	E90	1.001	16211	14.2	8D	-F	P	1005					ZX	
645 KANZ	07	1446	1450	1454	N24	E04	.313	16191	7.9	8	-F	1						ZX	
646 HOLL	07	1916	1917	1923	N16	E75	.961	16213	13.4	7	-B	3	C		17			F	ZX
647 BIGB	07	1955E	2000	2000D	N11	E80	.982	16208	13.8	5D	-N	1	P	2000	30				ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq Deg.	
					LAT.	MER. DIST.											
GRP76648	07	2005+4	2010+1	2024	N03	W70	.939	16176	2.6	19	-N			30		E	
BIGB	07	2005E	2010	2028	N01	W70	.940	16176	2.6	230	-N	* P	2010	40			
MCMA	07	2006E	2010	2024	N05	W71	.943	16176	2.5	180	-N	* C	2010	30	1.0	E	
RAMY	07	2009	2011	2019	N03	W69	.932	16176	2.7	10	-N	* C		14			
GRP76649	07	2006+2	2007+1	21000	N18	E77	.969	16208	13.6	54	-N					FHKLY	
			2032														
MCMA	07	2006E		20580	N18	E82	.986	16208	14.0	520	1B	C	2041			EFHKL	
RAMY	07	2007	2007	20280	N16	E75	.961	16208	13.5	210	-F	2 C		22		F	
HOLL	07	2008	2008	21000	N18	E74	.956	16208	13.4	520	-B	3 C				F	
BIGB	07	2017	2032	2053E	N20	E80	.980	16208	13.8	360	-B	2 P	2032	100		Y	
	07	2058	2101	NO FLARE PATFOL													
	07	2113	2142	NO FLARE PATFOL													
650	CULG	07	2355	2402	0018	S27	E79	.993	16211	13.9	23	-F	C	2402	40		ZX
651	CULG	08	0134	0144	0202U	N36	E25	.610		9.9	280	-N	C	0144	100	1.3	S ZX
GRP76652	08	0607	0612	0747	N07	W73	.953	16176	2.8	100	1F						DJK
ABST	08	0607	0612	0747	N07	W69	.930	16176	3.1	100	1F	C	0612	87		DJK	
CULG	08	0619U	0619U	0652U	N07	W77	.972	16176	2.5	330	-F	P	0619	50			
653	ABST	08	0731	0732	0749	N11	E80	.982	16208	14.3	18	?N	C	0732	87		DV ZX
	IMP.1	NO	CATA	PURP													
GRP76654	08	1003+3	1005+4	10120	N13	E84	.992	16208	14.7	9	-F						OH
KHAR	08	1003	1005	10100	N15	E83	.989	16208	14.6	70	-F	V	1005			H	
ABST	08	1006	1009	10120	N11	E86	.996	16208	14.9	60	1F	P	1009	87		D	
GRP76655	08	1202	1205	1207	N30	E63	.895	16207	13.2	5	-F						G
HTRP	08	1202	1205	1206	N30	E62	.889	16207	13.2	4	-F	C	1205	20	.4		
KHAR	08	1205E		12080	N30	E65	.908	16207	13.4	30	-F	P				D	
656	KHAR	08	1212E		12230	S24	E13	.542	16203	9.5	110	-F	P	1220	150	1.8	ZX
657	BIGB	08	1705	1707	1730	N05	W80	.983	16176	2.7	25	-N	1 C	1707	40		ZX
GRP76658	08	1737+6	1744+4	1803	N12	E70	.935	16208	14.0	26	-B			80			FU
BIGB	08	1737	1744	1803	N12	E70	.935	16208	14.0	26	-B	2 C	1744	70			
PALE	08	1740	1745	1801	N11	F72	.947	16208	14.1	21	-N	3 C		81			
HOLL	08	1743	1748	1817	N15	E68	.922	16208	13.8	34	-B	3 C		136		U F	
659	CULG	08	2236	2248	2305	S09	E07	.288		9.5	29	-F	C	2248	30	.3	G ZX
GRP76660	08	2242+6	2252+1	23190	N18	E66	.908	16208	13.9	37	-F			30			
CULG	08	2242	2253	2356	N16	E67	.915	16208	14.0	74	-F	C	2253	40	.9		
BIGB	08	2248	2252	2319	N20	E66	.909	16208	13.9	31	-F	2 C	2252	20			
GRP76661	09	0051+0	0056+0	0118	N27	E57	.847	16207	13.3	27	-N						
PURP	09	0051	0056	00560	N26	E56	.837	16207	13.2	50	1N	P					
CULG	09	0051	0056	0118	N28	E58	.856	16207	13.4	27	-F	C	0056	60	1.1		
662	CULG	09	0312	0318	0329	S17	W65	.929	16186	4.3	17	?N	C	0318	140	3.5	ZX
	IMP.1	NO	FURP														
663	CULG	09	0329	0332	0354	S29	E22	.658	16206	10.8	25	-B	C	0332	40	.5	M ZX
664	CULG	09	0430U	0440U	0500U	N10	E65	.902	16208	14.1	300	-F	C	0440	70	1.6	FT ZX
665	ABST	09	0516	0518	0525	N12	F62	.878	16208	13.9	9	-F	C	0518	87		CJ ZX
666	CULG	09	0519	0527	0541	N32	F59	.870	16207	13.6	22	-F	C	0527	70	1.4	ZX
667	ISTA	09	0616		06480	N05	W90	1.000	16176	2.5	320	?N	V				A ZX
	IMP.1	NO	CULG	PURP	CATA												
668	CATA	09	0620	0625	0635	S21	E90	1.001		16.0	15	-F	2 C	0625	28		ZX
669	ISTA	09	0634		06480	N16	E63	.886	16208	14.0	140	?N	V				E ZX
	IMP.1	NO	CULG	PURP	CATA												
670	CATA	09	0720	0720	0730	S16	W67	.939	16186	4.3	10	-N	2 C	0720	28		ZX
671	ISTA	09	0802		0805	S26	E23	.633	16206	11.1	3	-N	V				C ZX
672	ISTA	09	0808		0810	N16	E63	.886	16208	14.1	2	-N	V				D ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR-TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
673 KHAR	09	0817		0822D	N06	W90	1.000	1E176	2.6	50	-F	P	0819			D	ZX
674 ATHN	09	0835	0838	0846	N12	E58	.843	1E208	13.7	11	-B	3 C		32		F	ZX
GRP76675	09	0945+6	0951+1	1001	N13	E60	.8E1	1E208	13.9	16	-F			30	.6	DJ	
ABST	09	0945E	0952	0957	N14	E61	.8E9	1E208	14.0	120	-F	P	0952	96		OJ	
KHAR	09	0950E		0955D	N15	E61	.870	1E208	14.0	50	-F	P	0950			OT	
HPR	09	0950	0951	0954	N13	F60	.8E1	1E208	13.9	4	-F	C	0951	20	.4		
ATHN	09	0951	0952	1025	N12	F57	.834	1E208	13.7	34	-N	1	0952	33	.5		
ABST	09	0954	1002	1006D	N12	F65	.901	1E208	14.3	120	-F	P	1002	87		DJ	
GRP76676	09	1020E		1035	S21	W6E	.951	1E186	4.3	15	-N					C	
KHAR	09	1020E		1023D	S18	W72	.966	1E186	4.0	30	-F					D	
LOCA	09	1023E	1023	1035	S25	W65	.942	1E186	4.6	120	1N	V	1023	102	2.7		
GRP76677	09	1020+1	1022	1027	N13	E60	.8E1	1E208	13.9	7	-F			80	1.6	D	
KHAR	09	1020E		1023C	N15	E61	.870	1E208	14.0	30	-F	* P	1020	80		OT	
HPR	09	1021	1022	1025	N13	E60	.8E1	1E208	13.9	4	-F	* C	1022	40	.8		
LOCA	09	1023E	1023	1028	N13	E60	.8E1	1E208	13.9	50	1N	* V	1023	122	2.5		
GRP76678	09	1059+2	1103	1110	N14	F60	.8E1	1E208	14.0	11	-F						
KHAR	09	1059E		1109D	N15	E61	.870	1E208	14.0	100	-F	P				OT	
HPR	09	1101	1103	1110	N13	E59	.852	1E208	13.9	9	-F	C	1103	30	.6	E	
GRP76679	09	1344>9	1424	1459	N14	E59	.852	1E208	14.0	75	-N						
			1434														
HOLL	09	1344	1434	1501	N16	E60	.8E1	1E208	14.1	77	-B	3 C		21			
9IGB	09	1420	1424	1457	N12	E59	.852	1E208	14.0	37	-N	2 C	1424	30	.6		
680 HOLL	09	1438	1448	1504	S16	W69	.950	1E186	4.4	26	-N	3 C		21			ZX
681 HOLL	09	1627	1630	1639	N16	E59	.853	1E208	14.1	12	-N	3 C		24			ZX
GRP76682	09	1648>9	1727	1823	N13	E57	.834	1E208	14.0	95	-B			80	1.5		
			1743+2														
HOLL	09	1648	1745	1840	N13	F58	.843	1E208	14.1	112	-B	3 C		88		FDE	
HOLL	09	1648	1727	1840	N13	E58	.843	1E208	14.1	112	-N	3 C		54		FDE	
RAMY	09	1721	1743	1823	N14	F57	.834	1E208	14.0	62	-B	3 C		87		FDE	
HCLL	09	1727	1745	1747D	N13	E58	.843	1E208	14.1	200	-B	3 V		88		FDE	
PALE	09	1739	1744	1809	N13	F57	.834	1E208	14.0	30	-B	3 C		38		FDE	
	09	2142	2227	NO FLARE PATFOL													
683 CULG	10	0100	0113	0144	S16	W85	.999	1E186	3.7	44	-F	C	0113	20			ZX
GRP76684	10	0123+5	0134	0220	N13	E53	.794	1E208	14.0	57	1N			150	2.5	E	
			0141+4														
MITK	10	0123		0220	N13	E53	.794	1E208	14.0	57	1B	C	0145	190	3.2	E	
9IGB	10	0126E	0134	0139D	N13	E54	.804	1E208	14.1	130	-N	1 P	0134	40	.7		
CULG	10	0128	0145	0259	N11	E53	.794	1E208	14.0	91	-N	C	0145	120	1.9		
PUPP	10	0138	0141	0155	N14	E52	.784	1E208	14.0	17	1N	C					
685 CULG	10	0253	0332U	0348	N24	F44	.716	1E207	13.4	95	-F	C	0332	80	1.1	KT	ZX
GRP76686	10	0355>9	0441+8	0534	N18	E49	.756	1E208	13.8	99	2N					IJ	
CULG	10	0355	0403	0423	N20	F51	.780	1E208	14.0	28	-F	C	0403	30	.5		
PURP	10	0405	0447	0533	N20	F50	.770	1E208	13.9	88	2N	C		340	5.2		
CULG	10	0411	0411	0417	N13	E50	.762	1E208	13.9	6	-F	C	0411	50	.8		
TACH	10	0435	0441	0515	N18	F46	.723	1E208	13.6	40	1N	V	0441	229	3.3	E	
CULG	10	0442E	0449	0615	N23	E50	.776	1E208	13.9	93D	2N	C	0449	330	5.3	IF	
ABST	10	0501E	0505	0529	N19	E51	.779	1E208	14.0	280	-F	P	0505	96	1.5	DJ	
ABST	10	0531	0533	0540	N13	E48	.740	1E208	13.8	9	-N	C	0533	70	1.1	DJ	
687 PURP	10	0427	0442	0507	N26	E41	.691	1E207	13.3	40	?N	C					ZX
		IMP.1 NO :	YUNN														
688 ABST	10	0501E	0503	0543	N32	E49	.791	1E210	13.9	42D	-F	P	0503	87	1.4	DJ	ZX
689 CULG	10	0524	0548U	0701	N30	F86	.993	1E215	16.7	97	?N	C	0548	150		S	ZX
		IMP.1 NO :	PURP	YLNN	TACH	ABST	MITK										
690 CULG	10	0555	0558	0610	N14	F52	.784	1E208	14.1	15	-F	C	0558	70	1.1		ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR-TANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP76691	10	0912+0	0916+5	1008	N12	F49	.751	16208	14.1	56	13			300	4.6	JDZ	
ABST	10	0912	0916	1003	N13	F50	.762	16208	14.1	51	1N	C	0916	262	4.1	EJ	
YUNN	10	0912E	0921	0925D	N12	F50	.762	16208	14.1	130	2N	C		338			
KHAR	10	0912	0917	1005	N13	F49	.751	16208	14.1	53	1B	P	0918	330	5.0	EJO	
ABST	10	0912	0916	0940	N10	F55	.814	16208	14.5	28	1F	C	0916	157	2.6	FJ	
ABST	10	0914	0916	0928	N19	F59	.854	16208	14.8	14	-F	C	0916	96	1.8	DJ	
ATHN	10	0919E	0921U	1010	N12	F47	.728	16208	13.9	51D	-B	3 C		80		F	
CATA	10	0920	0920	0935D	N13	F49	.751	16208	14.1	150	1B	P	0920	224	3.5	Z	
LOCA	10	0940E	0940	1010	N11	F49	.750	16208	14.1	30D	-N	V	0940	51	.8		
692 HTPR	10	1252	1256	1306	N13	E33	.547	16213	13.0	14	-F	C	1256	40		E ZX	
693 HTPR	10	1350	1353	1404	N13	F33	.547	16213	13.1	14	-F	C	1353	40	.5	E ZX	
694 BIGB	10	1844	1848	1902	N20	F40	.658	16208	13.8	18	-F	2 C	1848	20	.3	F ZX	
GRP76695	10	2013	2028	2202	N13	H14	.264	16201	9.8	109	-N					GL	
BIGB	10	2013	2043	2202	N13	H14	.264	16201	9.8	109	-N	2 C	2043	150	1.6	G	
MCMA	10	2023E	2028	2057D	N14	H14	.271	16201	9.8	34D	-N	C	2028	125	1.4	EFL	
696 BIGB	10	2026	2040	2135	N24	A60	.867	16199	6.4	69	-N	2 P	2040	60	1.2	G ZX	
697 BIGB	10	2100	2103	2110	N22	H71	.940	16198	5.6	10	-N	2 C	2103	20		ZX	
698 CULG	11	0023	0030	0113	S27	H13	.584	16203	10.0	50	-F	C	0030	50	.6	SFG ZX	
699 CULG	11	0116	0122	0150	S27	F02	.552	16206	11.2	34	-F	C	0122	60	.7	F ZX	
700 CULG	11	0400	0403	0411	N11	E35	.572	16208	13.8	11	-F	C	0403	20	.2	ZX	
701 CULG	11	0428U	0429	0447	N16	E42	.672	16208	14.3	19D	-N	C	0429	60	.8	ZX	
702 CULG	11	0445	0503	0520	S17	E57	.875	16219	15.5	35	-F	C	0503	30	.6	G ZX	
703 ISTA	11	0635E		0650	N12	F36	.587	16208	14.0	150	-N	V				C ZX	
GRP76704	11	0713		0719	N18	E33	.562	16208	13.8	6	-N					C	
ISTA	11	0713		0717	N21	F33	.575	16208	13.8	4	-N	V				C	
ISTA	11	0717		0719	N16	F34	.568	16208	13.9	2	-N	V				C	
705 HTPR	11	1123	1125	1134	N13	E33	.547	16208	13.9	11	-F	C	1125	20	.2	E ZX	
706 RAMY	11	1256	1300	1312	S25	H05	.527	16206	11.2	16	-N	3 C		28		F ZX	
GRP76707	11	1337+0	1337+2	1345	N14	F32	.535	16208	14.0	8	-N			30	.4	E	
HTPR	11	1337	1337	1344	N13	F32	.533	16208	14.0	7	-N	C	1337	30		E	
RAMY	11	1337	1339	1346	N15	E32	.538	16208	14.0	9	-B	3 C		34			
708 RAMY	11	1355	1356	1358	N15	F32	.538	16208	14.0	3	-N	3 C		31		ZX	
GRP76709	11	1655+3	1657+1	1711	N14	E30	.507	16208	14.0	16	-N			50	.6	E	
HTPR	11	1655	1658	1712	N13	E31	.518	16208	14.0	17	-N	C	1658	60	.7	F	
RAMY	11	1656	1657	1715	N15	F31	.524	16208	14.0	19	-B	3 C		68			
MCMA	11	1656E		1705D	N13	F30	.504	16208	14.0	9D	-N	C	1657	50	.6	E	
HOLL	11	1658	1658	1709	N16	F30	.514	16208	14.0	11	-B	3 C		48			
PALE	11	1701E	1701U	1707	N14	F29	.492	16208	13.9	6D	-N	3 C		25			
GRP76710	11	2335+1	2336+1	2344	N28	F19	.471	16207	13.4	9	-F			100	1.1		
CULG	11	2335	2336	2344	N28	F18	.462	16207	13.3	9	-F	C	2336	70	.8		
VORO	11	2336	2337	2339D	N28	F20	.481	16207	13.5	3D	-N	C	2337	134	1.5		
711 CULG	11	2351	2353	0005	N16	F24	.429	16208	13.8	14	-F	C	2353	50	.6	ZX	
712 CULG	12	0012	0016	0026	N17	F28	.490	16208	14.1	14	-F	C	0016	30	.3	ZX	
GRP76713	12	0055+3	0058+1	0107	N14	F26	.448	16208	14.0	12	-N			60	.7		
CULG	12	0055	0059	0107	N15	E23	.409	16208	13.8	12	-N	C	0059	60	.7		
PURP	12	0057	0058	0107	N14	E26	.448	16208	14.0	10	1N	P					
PALE	12	0058	0059	0103	N14	F26	.448	16208	14.0	5	-N	3 C		57		F0E	
714 CULG	12	0123	0129	0139	N11	F23	.393	16208	13.8	15	-F	C	0129	60	.7	ZX	
715 CULG	12	0323	0326U	0335	N16	F22	.400	16208	13.8	12	-F	C	0326	30	.3	ZX	
716 CULG	12	0357U	0515	0550	N23	F25	.488	16208	14.0	113D	-F	C	0515	160	1.8	SF ZX	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
717 CULG	12	0411	0422	0457	N30	E24	.539	16210	14.0	46	-F	C	0422	60	.7	ZX	
718 CULG	12	0444	0452	0512	N14	E21	.374	16208	13.8	28	-N	* C	0452	80	.9	ZX	
719 CATA	12	0710	0710	0715	N15	E26	.452	16208	14.2	5	-F	2 C	0710	28	.3	ZX	
GRP76720	12	0955	1000	1010	N13	E16	.293	16208	13.6	15	-F			70	.7	0	
CATA	12	0955	1000	1010	N13	E17	.309	16208	13.7	15	-N	2 C	1000	56	.6		
KHAR	12	1000E		1010D	N13	E16	.293	16208	13.6	100	-F	P	1000E	80	.8	80	
721 KHAR	12	1018E		1050C	N11	E21	.362	16208	14.0	320	-F	P	1025	110	1.2	0 ZX	
	12	1150	1245	NO FLARE PATROL													
722 MCMA	12	1245E		1256	N15	E23	.409	16208	14.3	110	-N	C	1245	25	.3	0 ZX	
723 VORO	12	2246	2247	22510	N13	E08	.178	16213	13.5	50	-N	P	2247	90	.9	0J ZX	
GRP76724	13	0223>9	0238+3	0255	N13	E09	.190	16208	13.8	32	-N					J	
YUNN	13	0223	0240	0305	N13	E09	.190	16208	13.8	42	1N	C		345			
CULG	13	0231	0238	0301	N13	E08	.177	16208	13.7	30	-B	C	0238	90	.9	T	
PALE	13	0232	0241	0250	N11	E08	.158	16208	13.7	18	-B	3 C		79		FDE	
MITK	13	0234	0239	0253	N13	E09	.190	16208	13.8	19	-N	C	0239			E	
VORO	13	0234	0239	0250	N13	E09	.190	16208	13.8	16	1N	C	0239	224	2.3	J	
GRP76725	13	0532	0605+2	0621	S26	E90	1.001	16224	20.0	49	1N			80		ADJ	
ABST	13	0532	0607	0622	S25	E90	1.001	16224	20.0	50	1N	C	0607	87		ADJ	
CATA	13	0605E	0605	0620	S28	E90	1.001	16224	20.0	150	1B	2 P	0605	84		A	
GRP76726	13	0715+0	0718+2	0729	N12	E07	.153	16208	13.8	14	-N					AEJ	
KANZ	13	0715	0718	0726	N12	E07	.153	16208	13.8	11	-B	2					
ABST	13	0715	0719	0732	N12	E07	.153	16208	13.8	17	-F	C	0715	175	1.8	EJ	
CATA	13	0715E	0720	07200	N12	E06	.140	16208	13.8	50	-N	* P	0720	84	.8	A	
GRP76727	13	0729+2	0733+4 0745	0805	S26	E90	1.001	16224	20.1	36	1N			130		AFJ	
KANZ	13	0711E		08020	S26	E90	1.001	16224	20.0	510	-B	*					
ABST	13	0729	0733	0755	S25	E90	1.001	16224	20.1	26	1N	* C	0733	175		AFJ	
ZURI	13	0731	0737	0747	S26	E90	1.001	16224	20.1	16	-F	* C	0737	90			
CATA	13	0735E	0745	08400	S29	E90	1.002	16224	20.1	650	2N	* P	0745	168			
ZURI	13	0755	0801	0807	S26	E90	1.001	16224	20.1	12	-F	* C	0801	80			
728 ZURI	13	0827	0829	0853	S26	E90	1.001	16224	20.1	26	-F	* C	0829	70		ZX	
GRP76729	13	0856>9	0911 0921	0932	S25	E90	1.001	16224	20.1	36	-N					ADJ	
ABST	13	0856E	0911	0933D	S25	E90	1.001	16224	20.1	370	1N	P	0911	87		ADJ	
ZURI	13	0907	0921	0931	S26	E90	1.001	16224	20.1	24	-F	C	0921	50			
GRP76730	13	0947	0951 1107+3	1115	S26	E90	1.001	16224	20.2	88	1N					HOQ	
ZURI	13	0947	0951	1013	S26	E90	1.001	16224	20.2	26	-F	* C	0951	30			
KHAR	13	1006E	1100	1106D	S24	E90	1.001	16224	20.2	600	1N	* P				HOQ	
CATA	13	1059E	1110	1115D	S30	E90	1.002	16224	20.2	200	1N	* P	1110	140			
ZURI	13	1059	1107	1115	S26	E90	1.001	16224	20.2	16	-F	* C	1107	60			
731 ZURI	13	1029	1035	1047	N20	E72	.945	16218	18.8	18	-F	C	1035	40		ZX	
732 BIGB	13	1424	1429	1436	S29	E05	.586	16211	14.0	12	-F	2 C	1429	30	.3	G ZX	
733 RAMY	13	1456	1457	1510	N15	E05	.170	16208	14.0	14	-N	3 C		42		ZX	
734 BIGB	13	1533	1534	1544	S08	E62	.936	16221	18.7	11	-N	2 C	1534	30		G ZX	
735 BIGB	13	1538	1540	1542	S21	E90	1.001	16224	20.4	4	-N	2 C	1540	20		ZX	
GRP76736	13	1807+0	1808+5	1820	S22	E90	1.001	16224	20.5	13	-F			30			
HUAN	13	1807	1808	1809	S22	E90	1.001	16224	20.5	2	-F	1 C					
BIGB	13	1807	1808	1810	S21	E90	1.001	16224	20.5	3	-F	2 C	1808	30			
BIGB	13	1810	1813	1830	S23	E90	1.001	16224	20.5	20	-F	2 C	1813	30			
737 RAMY	13	1837	1837	1842	N15	E03	.156	16208	14.0	5	-N	3 C		23		ZX	
	13	2017	2037	NO FLARE PATROL													
738 BIGB	13	2041	2042	2053E	S23	E90	1.001	16224	20.6	120	-F	2 P	2042	20		ZX	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	NER. DIST.											
739 BIGB	13	2152	2211	2242	S23	E90	1.001	16224	20.7	50	-N	* C	2211	30		ZX	
740 CULG	13	2229	2251	2326	N14	E06	.165	16208	14.4	57	-F	C	2251	60	.6	ZX	
GRP76741	13	2242+0	2244+2	2335	S26	E87	1.000	16224	20.5	53	-N			40		K	
CULG	13	2242U	2246	2342U	S27	F85	1.000	16224	20.3	600	-N	* C	2246	40		KT	
BIGB	13	2242	2244	2327	S25	E90	1.001	16224	20.7	45	-B	* C	2244	40			
742 CULG	13	2340	2353	0010	N20	W02	.235	16208	13.8	30	-F	C	2353	100	1.0	ZX	
743 CULG	14	0206	0228	0236	N18	E53	.797	16218	18.1	30	-N	C	0228	30	.5	ZX	
744 CULG	14	0234	0236	0247	N16	E05	.184	16208	14.5	13	-F	C	0236	20	.2	ZX	
745 TACH	14	0337E		04020	S24	E67	.951	16225	19.2	250	?F	V	0337	663		EF ZX	
		IMP.2 NO :	ITK	CLLG													
746 CULG	14	0413	0422	0433	N20	W03	.237	16208	14.0	20	-N	C	0422	70	.7	LT ZX	
GRP76747	14	0509+2	0513+1	0527	N20	W05	.247	16208	13.8	18	-F			80	.8	DJ	
CULG	14	0509	0514	0530	N20	W06	.253	16208	13.8	21	-F	C	0514	80	.8	T	
ABST	14	0511	0513	0524	N21	W05	.262	16208	13.8	13	-F	C	0513	87	.9	DJ	
GRP76748	14	0514	0517	0609	S25	E76	.986	16224	19.9	55	1F					J	
			0527														
ABST	14	0514	0517	0608	S28	E85	1.000	16224	20.6	54	1F	C	0517	87		DJ	
ABST	14	0524	0527	0535	S24	E79	.992	16224	20.2	11	1F	C	0527	87		DJ	
WEND	14	0557E		06100	S24	E71	.969	16224	19.6	130	-F	C	0601	30		T	
749 HTPR	14	0530	0534	0548	S28	W03	.569	16211	14.0	18	-F	C	0534	30	.3	E ZX	
750 WEND	14	0614		0630	S05	E53	.811	16221	18.2	16	-F	C	0624	20	.3	D ZX	
GRP76751	14	0624>9	0655	0725	S24	E78	.990	16224	20.1	61	-N					EJ	
			0703														
WEND	14	0624		07040	S24	E70	.965	16224	19.5	400	-N	C	0700	35		T	
WEND	14	0649		0702	S22	E80	.993	16224	20.3	13	-N	C	0653	30		T	
ABST	14	0652	0655	0713	S26	E85	1.000	16224	20.7	21	1F	C	0655	157		EJ	
ABST	14	0701	0703	0725	S24	E79	.992	16224	20.2	24	1F	C	0703	87		DJ	
GRP76752	14	0735	0742+7	0906	S27	E76	.987	16224	20.0	91	1N					AFHJKU	
			0834+9														
ABST	14	0735	0749	0805	S28	E85	1.000	16224	20.7	30	1N	C	0749	87		DJ	
ABST	14	0740	0742	0749	S26	E85	1.000	16224	20.7	9	1F	C	0742	114		DJ	
KANZ	14	0740E	0843	0925	S27	E70	.968	16224	19.6	1050	1B	2				UHF	
ISTA	14	0745E		0910	S25	E75	.983	16224	19.9	850	3B		V			AK	
HTPR	14	0806	0811	0825	S25	E77	.988	16224	20.1	19	-F	C	0811	10			
HTPR	14	0827	0834	0842	S28	E80	.995	16224	20.4	15	-F	C	0834	20			
ABST	14	0830	0836	0846	S27	E88	1.000	16224	21.0	16	1N	C	0836	87		DJ	
ZURI	14	0833E	0855	0903	S27	E75	.984	16224	20.0	300	1N	* P	0855	140			
HTPR	14	0850	0858	0905	S28	E80	.995	16224	20.4	15	-F	* C	0858	20			
GRP76753	14	0749+1	0755	0807	S27	W07	.563	16211	13.8	18	-N					D	
HTPR	14	0749	0755	0810	S28	W07	.577	16211	13.8	21	-F	C	0755	10	.1		
ISTA	14	0750		0803	S26	W08	.552	16211	13.7	13	-B	V				D	
GRP76754	14	0816+4	0821+3	0834	S25	W06	.532	16211	13.9	18	-N					EG	
KANZ	14	0816	0824	0858	S25	W06	.532	16211	13.9	42	-B	2				EG	
HTPR	14	0820	0821	0834	S27	W06	.560	16211	13.9	14	-F	C	0821	20	.2	E	
ISTA	14	0820		0833	S25	W15	.571	16211	13.2	13	-N	V				E	
GRP76755	14	0839+2	0842+1	0856	N19	W06	.237	16208	13.9	17	-F			130	1.3	DJ	
KANZ	14	0828	0843	0910	N19	W06	.237	16208	13.9	42	-N	2					
ZURI	14	0839	0843	0857	N19	W07	.245	16208	13.8	18	-F	C	0843	160	1.7		
TELV	14	0840	0843	0852	N20	W01	.233	16208	14.3	12	-N	2	C	0843	122	1.2	
ABST	14	0841	0842	0854	N20	W07	.260	16208	13.8	13	-F	P	0842	96	1.0	DJ	
GRP76756	14	0926>9	0950>9	1010	S27	E81	.996	16224	20.5	44	1N			90		J	
ABST	14	0926	0950	1004D	S27	E85	1.000	16224	20.8	380	1F	P	0950	87		DJ	
ZURI	14	0949	0955	1005	S27	E75	.984	16224	20.0	16	-F	C	0955	80			
ABST	14	0958	1002	1004D	S24	E78	.990	16224	20.3	60	1F	P	1002	87		GJ	
CATA	14	1000E	1000	1015D	S28	E85	1.000	16224	20.8	150	1B	1	P	1000	112		T

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA	CDRR AREA	
					LAT.	MER. DIST.											
GRP76757	14	1003+3	1006+4	1024	S16	W42	.735	16205	11.3	21	-N						E
TELV	14	1003	1006	1016	S04	W48	.741	16205	10.8	13	-N	2	C	1006	120	1.8	
WEND	14	1003	1007	1025	S16	W40	.714	16205	11.4	22	-N		C	1007	34	.5	
ZURI	14	1003	1007	1023	S16	W41	.725	16205	11.3	20	-N		C	1007	80	1.2	
KANZ	14	1004	1008	1024	S16	W41	.725	16205	11.3	20	-N	2					
HTPR	14	1006	1010	1027	S17	W43	.750	16205	11.2	21	-N		C	1010	30	.5	E
GRP76758	14	1025+9	1051	1107D	S27	E75	.984	16224	20.1	42	1N				120		EK
KANZ	14	0936		1716D	S27	E70	.968	16224	19.7	460D	-N	2					TK
CATA	14	1025E	1050	1050C	S27	E75	.984	16224	20.1	250	2N	1	P	1050	196		T
HTPR	14	1025		1059D	S28	E78	.992	16224	20.3	340	-N		C	1045	80		EK
ZURI	14	1037	1051	1107	S27	E75	.984	16224	20.1	30	1N		C	1051	120		
GRP76759	14	1042+1	1047+1	1124	S16	W39	.704	16205	11.5	42	-F				35	.5	U
WEND	14	1042		1124	S16	W37	.682	16205	11.7	42	-F		C	1051	25	.3	
KANZ	14	1043	1047	1102	S17	W39	.709	16205	11.5	19	-F	2					
TELV	14	1043	1048	1129	S04	W45	.705	16205	11.1	46	-N	2	C	1048	40	.6	U
760 KANZ	14	1108	1108	1114	S10	E54	.832	16221	18.5	6	-F	2					ZX
761 WEND	14	1153		1203	S23	E70	.963	16224	19.7	10	-N		C	1157	25		T ZX
GRP76762	14	1217+2	1221+4	1238	N20	W09	.276	16208	13.8	21	1N						EHL
			1231														
MCMA	14	1217	1225	1240	N20	W09	.276	16208	13.8	23	1N		C	1225	200	3.3	EL
TELV	14	1217	1223	1239	N22	W03	.270	16208	14.3	22	1N	3	C	1223	240	2.5	
WEND	14	1218	1221	1236	N20	W10	.285	16208	13.8	18	-N		C	1221	75	.8	E
HTPR	14	1219	1222	1236	N20	W09	.276	16208	13.8	17	-N		C	1222	70	.7	E
RAMY	14	1228	1231	1258	N19	W10	.272	16208	13.8	30	1N	3	C		221		H
763 WEND	14	1218		1231	S22	E69	.958	16224	19.7	13	-F		C	1223	45		T ZX
GRP76764	14	1240+4	1244	1451	S27	E76	.987	16224	20.2	131	1N						AEY
			1251														
MCMA	14	1240E	1251	1458	S27	E80	.995	16224	20.5	138D	2B		C	1251			EY
RAMY	14	1243	1244	1743C	S22	E73	.974	16224	20.0	300D	1N	3	C				Y
HTPR	14	1244		1311D	S28	E75	.985	16224	20.2	27D	-N		C	1248	140		E
WEND	14	1244E		1430D	S27	E72	.975	16224	19.9	106D	1N		C	1258	70		AT
ZURI	14	1300E	1211	1443	S27	F75	.984	16224	20.2	103D	2N		P	1311	200		
KANZ	14	1313E		1405D	S27	E75	.984	16224	20.2	52D	1N	1					Y
HTPR	14	1323E		1442	S28	E75	.985	16224	20.2	79D	-N		C	1325	120		E
HUAN	14	1340E		1411D	S27	E80	.995	16224	20.6	31D	-N	1	P	1347	40		E
GRP76765	14	1410+0	1413	1531	S22	E52	.852	16225	18.5	81	-N				30	.6	D
			1506+2														
MCMA	14	1410	1413	1534D	S16	E53	.840	16225	18.6	84D	-N	*	C	1413	25	.5	D
HTPR	14	1410	1506	1528	S25	E52	.863	16225	18.5	78	-F	*	C	1506	20	.3	
RAMY	14	1500	1521	1539	S21	E52	.848	16225	18.5	39	-N	*	C		32		
RAMY	14	1500	1508	1539	S21	E52	.848	16225	18.5	39	-B	*	C		40		
HUAN	14	1500		1525	S23	E54	.870	16225	18.7	25	-F	*	C	1508	15	.3	D
766 RAMY	14	1542	1548	1551	S17	W42	.740	16205	11.5	9	-N	3	C		21		ZX
GRP76767	14	1542+2	1544+3	1554	S23	E77	.987	16224	20.4	12	1B				120		AELY
RAMY	14	1243	1546	1743D	S22	E73	.974	16224	20.0	300D	1B	*	C				Y
HUAN	14	1542	1546	1552	S24	E80	.994	16224	20.7	10	-N	*	C	1546	20		D
MCMA	14	1543	1545	1551D	S23	E80	.993	16224	20.7	8D	1B	*	C	1545			EL
BIGB	14	1543	1544	1554	S23	E76	.984	16224	20.4	11	-B	*	C	1544	120		A
KANZ	14	1543	1546	1554	S24	E75	.982	16224	20.3	11	-B	*					A
HTPR	14	1544	1547	1555	S24	F76	.985	16224	20.4	11	-B	*	C	1547	120		E
GRP76768	14	1609+3	1612+3	1622	S22	E53	.859	16225	18.6	13	-B				40	.8	D
LOCA	14	1558	1612	1622	S22	E53	.859	16225	18.6	24	-N	*	V	1612	51	1.2	
RAMY	14	1609	1614	1623	S21	E51	.840	16225	18.5	14	-B	*	C		55		
KANZ	14	1610	1614	1622	S24	E55	.881	16225	18.8	12	-B	*					
HUAN	14	1612	1615	1619	S23	E56	.884	16225	18.9	7	-N	*	C	1615	25	.5	D
BIGB	14	1612	1614	1624	S23	E53	.710	16225	18.7	12	-B	2	C	1614	30	.4	
MCMA	14	1613E		1622D	S16	E53	.840	16225	18.7	9D	-B	*	C	1613	30	.3	D
769 WEND	14	1619E		1631	S27	E72	.975	16224	20.1	12D	-F	*	C	1621	40		AT ZX
770 WEND	14	1700E		1729D	S27	E71	.972	16224	20.0	29D	-F	*	C	1717	65		T ZX
GRP76771	14	1728+1	1730+0	1745	S18	W45	.774	16205	11.4	17	-N				50	.8	H
WEND	14	1728		1730D	S16	W44	.755	16205	11.4	2D	-N		C	1729	50	.8	
RAMY	14	1729	1730	1743D	S18	W45	.774	16205	11.4	14D	-B	3	C		148		H
HUAN	14	1729	1730	1745	S18	W46	.784	16205	11.3	16	-N	2	C	1730	50	.8	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
GRP76795	15	0514+0	0516+1	0532	S16	H54	.848	16205	11.2	18	-N						DHJ
CULG	15	0514	0516	0530	S17	H54	.851	16205	11.2	16	-B						HT
ABST	15	0514	0517	0533	S16	H55	.857	16205	11.1	19	-F	C	0516	40	.8		DJ
												C	0517	96	1.9		
GRP76796	15	0517+3	0524+1	0536	S23	F67	.950	16224	20.2	19	1N			200			DHJ
APST	15	0502E	050E	0538	S29	F65	.950	16224	20.1	360	1F	*	P	0506	87		DJ
CULG	15	0517	0524	0549	S23	E66	.945	16224	20.2	32	1B	*	C	0524	160		JTH
TACH	15	0519	0525	0531	S22	F68	.953	16224	20.3	12	2N	*	C	0525	248		E
ABST	15	0519	0525	0539	S22	F65	.958	16224	20.4	20	1N	*	C	0525	175		D
PUPP	15	0520	0525	0532	S25	F68	.957	16224	20.3	12	2N	*	P		226	8.8	
797 CULG	15	0547	0550	0608	S19	F39	.722	16225	18.2	25	-F			50	.7		ZX
798 CULG	15	0623	0714U	0714D	N28	H01	.365		15.2	510	?F			220	2.4		SFIU ZX
		IMP.1 NO	FUPP	ABST	MITK												
GRP76799	15	0642+9	0656	0727	S25	F58	.904	16224	19.6	45	-F			50	1.1		FJK
			0705+2														
WEND	15	0642E	0709D	0709D	S24	E54	.874	16224	19.3	270	-F			30	.6		
ABST	15	0653	0656	0658	S25	E57	.897	16224	19.6	5	1N			96	2.3		CJ
CULG	15	0703	0709	0713	S26	F65	.945	16224	20.2	10	-F			50			FT
ABST	15	0709	0711	0740	S25	F59	.910	16224	19.7	31	-F			87	2.0		DJK
800 CULG	15	0654	0655	0705	S25	H10	.546	16211	14.5	11	-F			30	.4		ZX
801 KANZ	15	0727E		0742	S27	E57	.903	16224	19.6	150	-N	2					ZX
GRP76802	15	0727+1	0730+1	0738	S16	H55	.857	16205	11.2	11	-N						DJ
KANZ	15	0727E	0731	0735	S17	H54	.851	16205	11.3	80	-N	*					
ABST	15	0728	0730	0740	S16	H56	.865	16205	11.1	12	-N	*	C	0730	87	1.7	DJ
803 TELV	15	0741	0750	0824D	N10	H56	.824		11.1	430	-F	3	C	0750	60	1.1	E ZX
804 ABST	15	0805	0811	0852	S16	H53	.840	16205	11.4	47	-F			79	1.5		DJ ZX
GRP76805	15	0818+1	0823+4	0850	S23	F44	.790	16225	18.6	32	-N			70	1.1		DJ
ABST	15	0818	0823	0833D	S24	E45	.804	16225	18.7	150	-N			105	1.8		DJ
KANZ	15	0819	0827	0855	S26	F46	.822	16225	18.8	36	-N	2					
WEND	15	0821E	0835D	0835D	S23	E43	.782	16225	18.6	140	-N			40	.6		
ZURI	15	0824E	0824	0844	S22	F44	.785	16225	18.7	200	-N			70	1.0		
806 ABST	15	0826	0828	0833D	N21	H21	.421	16208	13.8	70	-F			87	1.0		DJ ZX
807 ZURI	15	0955	1013	1039	S26	F62	.920	16224	20.1	44	-F			50			ZX
809 KANZ	15	1050	1101	1117	S21	F63	.925	16224	20.2	27	-N	2					H ZX
809 CATA	15	1140	1140	1145D	S22	E62	.921	16224	20.1	50	-N	1	C	1140	67		ZX
810 RAMY	15	1232	1235	1246	N32	H24	.557	16207	13.7	14	-N	3	C		24		F ZX
811 MCHA	15	1313	1314	1345	S28	E63	.939	16224	20.3	32	-N			30	.7		E ZX
812 MCHA	15	1313	1315	1321	N22	H20	.417	16208	14.1	8	-F	*	C	1315	20	.2	D ZX
GRP76813	15	1330+9	1339+3	1346	N21	H21	.421	16208	14.0	16	-N			60	.7		EU
KANZ	15	1330	1342	1346	N20	H21	.413	16208	14.0	16	-F	1					
WEND	15	1336		1347	N21	H21	.421	16208	14.0	11	-N			60	.7		
RAMY	15	1338	1340	1346	N20	H21	.413	16208	14.0	8	-N	3	C	1340	72		U
ZURI	15	1339	1339	1343	N21	H22	.433	16208	13.9	4	-N			140	1.6		
MCHA	15	1342E		1346	N22	H22	.442	16208	13.9	40	-N			50	.6		E
GRP76814	15	1359+6	1407+2	1424	N20	H24	.452	16208	13.8	29	-N			100	1.1		E
MCHA	15	1349	1408	1428D	N22	H25	.475	16208	13.7	390	-N			75	.8		E
WEND	15	1359		1432	N20	H23	.439	16208	13.9	33	-N			1407	75	.9	
ZURI	15	1401	1407	1429	N21	H22	.433	16208	13.9	28	-B			160	1.8		
KANZ	15	1402	1409	1429	N19	H24	.445	16208	13.8	27	-N	1					
HUAN	15	1404	1408	1425	N19	H25	.458	16208	13.7	21	-N	1	C	1408	50	.5	
RAMY	15	1405	1408	1425	N19	H24	.445	16208	13.8	20	-B	3	C		134		
			1411	1425	N19	H24	.445	16208	13.8	20	-N	3	C		100		

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR. AREA .Sq Deg.		
					LAT.	MER. DIST.													
GRP76815	15	1524+4	1529+2	1541	S23	E41	.764	16225	18.7	17	-B		90	1.4	E				
MCMA	15	1524	1529	1546	S24	E41	.770	16225	18.7	22	18	C	1529	120	2.1	E			
KANZ	15	1527	1531	1539	S24	F41	.770	16225	18.7	12	-B	2							
WEND	15	1527	1531	1539	S23	E40	.755	16225	18.6	12	-N	C	1531	75	1.1				
HUAN	15	1528	1530	1541	S24	E43	.787	16225	18.9	13	-N	2	C	1530	70	1.1			
RAMY	15	1528	1531	1550	S23	E41	.764	16225	18.7	22	19	3	C		172				
BIGB	15	1528	1529	1538	S23	E41	.764	16225	18.7	10	-B	2	C	1529	70	1.0			
GRP76816	15	1641+1	1642+0	1645	S24	F53	.867	16224	19.7	4	-N								
BIGB	15	1641	1642	1644	S23	E52	.855	16224	19.6	3	-N	2	C	1642	10	.2			
KANZ	15	1642	1642	1646	S26	E54	.880	16224	19.7	4	-N	2							
GRP76817	15	1712+2	1714+5	1725	S27	E56	.897	16224	19.9	13	-N			50	1.1	E			
WEND	15	1712		1724	S26	F54	.820	16224	19.8	12	-F	C	1714	30	.6				
BIGB	15	1713	1714	1725	S26	E55	.887	16224	19.8	12	-B	2	C	1714	60	1.1			
KANZ	15	1713		1717D	S28	E57	.906	16224	20.0	4D	-N	1							
MCMA	15	1714E		1719D	S28	F60	.923	16224	20.2	5D	-N		P	1714	50	1.2	E		
RAMY	15	1714	1715	1730	S27	E53	.877	16224	19.7	16	-B	3	C		77		F		
HUAN	15	1714		1725	S28	E57	.906	16224	20.0	11	-F	1	C				E		
818	BIGB	15	1735	1736	1739	N18	E36	.600	16218	18.4	4	-F	2	C	1736	20	.3	ZX	
GRP76819	15	1922	1924	1928D	S23	E38	.737	16225	18.7	6	-B						E		
BIGB	15	1922	1924	1928D	S23	E39	.746	16225	18.7	6D	-B	1	P	1924	20	.3	E		
MCMA	15	1926E		1928D	S24	E38	.744	16225	18.7		-N		P	1926	60	.9	E		
	15	1928	1931	NO FLARE PATROL															
820	PALE	15	1931	1933	1957D	S23	E29	.656	16225	18.0	26D	-N	3	C		36		F	ZX
821	CULG	15	2143E	2143E	2353U	N27	W36	.640	16207	13.2	130D	?N		P	2143	310	4.0	B	ZX
	IMP.1	NO			BIGB														
GRP76822	16	0034+2	0038+4	0057	S23	E36	.720	16225	18.7	23	-N						CH		
CULG	16	0034	0038	0101	S24	E35	.718	16225	18.6	27	-B	C	0038	110	1.5	HT			
MITK	16	0036	0042	0052	S23	F37	.729	16225	18.8	16	-N	C	0042			C			
823	CULG	16	0100	0101	0100	S30	E52	.822	16224	19.9	8	-F	C	0101	20	.5	ZX		
824	CULG	16	0119	0122	0132	S25	E49	.841	16224	19.7	13	-F	C	0122	50	1.0	ZX		
825	CULG	16	0154	0205	0227	N21	W31	.548	16208	13.8	33	-F	C	0205	50	.6	ZX		
GRP76826	16	0438+9	0500+4	0548	S27	E53	.877	16224	20.2	70	2N			340	6.7	EJKV			
			0516																
CULG	16	0438	0501	0657D	S27	E54	.884	16224	20.2	139D	2B	C	0501	340	7.5	VFK			
TACH	16	0455	0500	0600D	S27	E53	.877	16224	20.2	65D	2B	C	0500	354	7.5	E			
MITK	16	0501E	0504	0528	S27	F56	.897	16224	20.4	27D	1N	C	0504	110	2.4	E			
ABST	16	0502E	0502	0555	S27	E53	.877	16224	20.2	53D	2N	P	0502	410	8.6	EJ			
ABST	16	0507	0516	0529	S27	E46	.827	16224	19.7	22	1N	C	0516	218	3.8	E			
GRP76827	16	0600+0	0603	0712	S26	E52	.867	16224	20.1	72	-N			100	1.9	IJU			
			0615																
ATHN	16	0600E	0603	0719	S27	E52	.871	16224	20.2	79D	-N	1		0603	82	1.8			
ABST	16	0600	0615	0655	S28	E55	.894	16224	20.4	55	1N	C	0615	175	4.0	CJ			
ABST	16	0600	0615	0712	S24	E50	.844	16224	20.0	72	-N	C	0615	105	2.0	OJ			
CATA	16	0605E	0605	0610D	S26	F53	.874	16224	20.2	5D	19	2	P	0605	140	2.9	T		
WEND	16	0607E		0622D	S26	F50	.852	16224	20.0	15D	-N	C	0607	90	1.6	BE			
ISTA	16	0615E		0712	S22	E52	.852	16224	20.2	57D	18	V				U			
ISTA	16	0615E		0653	S26	F56	.894	16224	20.5	38D	18	V				D			
KIEV	16	0616E	0625	0700D	S27	F50	.857	16224	20.0	44D	-F	C	0625	80		CI			
ABST	16	0644	0651	0655	S29	E53	.885	16224	20.3	11	-F	C	0651	87	1.9	OJ			
828	ABST	16	0720	0729	0735D	S23	E48	.824	16224	19.9	15D	-N	P	0729	87	1.6	EJ	ZX	
829	ABST	16	0742	0747	0757D	S20	F34	.679	16225	18.9	15D	?F	P	0747	175	2.4	EJ	ZX	
	IMP.1	NO			KIEV	PURP	MONT	CATA											
830	ABST	16	0934	0935	0936D	S25	F30	.683	16225	18.6	2D	-F	P	0935	140	2.0	CV	ZX	
831	RAMY	16	1134	1141	1200	S25	E47	.825	16224	20.0	26	-N	3	C		23		ZX	
GRP76832	16	1137+3	1145+0	1303	N18	F25	.452	16218	18.4	86	18			230	2.6	U			
			1155																
RAMY	16	1137	1145	1314	N18	E24	.438	16218	18.3	97	-B	3	C		191		U		
KANZ	16	1137	1155	1251	N21	F25	.471	16218	18.4	74	1N	2							
CATA	16	1140	1145	1150D	N18	F25	.452	16218	18.4	10D	18	2	P	1145	281	3.2			

64
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq Deg			
					LAT.	MER DIST.													
833 RAMY	16	1204	1207	1217	S25	F47	.825	16224	20.0	13	-N	3	C		23			ZX	
834 RAMY	16	1240	1240	1243	N10	F80	.922	16233	22.5	3	-F	3	C					ZX	
GRP76835	16	1526+5	1532+1	1547	S26	F47	.830	16224	20.2	21	-N				40	.7		E	
HTPR	16	1526	1532	1540	S27	F46	.827	16224	20.1	14	-F		C	1532	30	.5		E	
MCHA	16	1526E	1533	1600D	S27	F47	.835	16224	20.2	34D	-N		C	1533	90	1.6		E	
BIGB	16	1526	1533	1554	S25	F49	.841	16224	20.3	28	-N	1	C	1533	50	.8			
RAMY	16	1531	1532	1540	S26	E48	.838	16224	20.2	9	-N	3	C		30			F	
GRP76836	16	1626+1	1627+2	1645	S27	F45	.820	16224	20.1	19	-F				20	.3		E	
MCHA	16	1626	1629	1645	S27	E45	.820	16224	20.1	19	-N		C	1629	20	.3		E	
HTPR	16	1627	1627	1644	S27	E45	.820	16224	20.1	17	-F		C	1627	20	.3			
	16	1955	2007		NO FLARE PATROL														
837 PALE	16	2022	2028	2033	S27	F43	.804	16224	20.1	11	-N	3	C		59			F ZX	
	16	2056	2117		NO FLARE PATROL														
	16	2126	2129		NO FLARE PATROL														
	16	2332	2337		NO FLARE PATROL														
838 CULG	16	2343	2412	0032	S43	F55	.941		21.1	49	-F		C	2412	60			SG ZX	
	17	0125	0129		NO FLARE PATROL														
	17	0135	0141		NO FLARE PATROL														
839 TACH	17	0407	0410	0415	S25	E36	.734	16224	19.9	8	?F		V	0412	221	3.3		E ZX	
		IMP.1 NO : FURP			MITK														
840 ABST	17	0508	0515	0536	S29	F29	.711	16224	19.4	28	-N		C	0515	87	1.3		D ZX	
GRP76841	17	0615+3	0620+4	0640	S26	F37	.750	16224	20.0	25	-F							DJ	
CULG	17	0615	0624U	0640	S27	E37	.757	16224	20.0	25	-F		C	0624	30	.5		T	
HTPR	17	0616	0621	0637	S26	E37	.750	16224	20.0	21	-F		C	0621	10	.1			
ABST	17	0618	0620	0700	S25	F39	.760	16224	20.2	42	-N		C	0620	114	1.8		DJ	
GRP76842	17	0758+1	0800+1	0807	S25	E35	.726	16224	20.0	9	-N							DJK	
ABST	17	0758	0800	0800D	S25	E34	.717	16224	19.9	100	-N		P	0808	87	1.3		DJK	
MONT	17	0759	0801	0905	S26	E36	.742	16224	20.0	6	-N		C	0801	80				
843 ABST	17	0815	0819	0827D	N27	M56	.837	16207	13.1	120	-F		P	0819	87	1.6		D ZX	
GRP76844	17	0913+1	0915+1	0926	N07	F73	.953	16233	22.9	13	-N				80			J	
MONT	17	0913	0916	0932	N08	F75	.983	16233	23.0	19	-N		C	0916	80			E	
ABST	17	0914	0915	0920	N06	F72	.948	16233	22.8	6	1N		C	0915	87			DJ	
845 ABST	17	0921	0922	0931	S24	F34	.710	16224	19.9	10	-N		C	0922	87	1.3		DJV ZX	
GRP76846	17	0958+5	1002+2	1008	S25	F33	.709	16224	19.9	10	-F							D	
ABST	17	0958	1002	1004D	S24	F34	.710	16224	20.0	60	-F		C	1002	122	1.8		D	
HTPR	17	1003	1004	1008	S26	F33	.717	16224	19.9	5	-F		C	1004	30	.4			
847 KHAR	17	1045E		1105D	S26	F27	.668	16224	19.5	200	-F		P	1050	60	.8		CH ZX	
848 KHAR	17	1132E		1136D	S24	F30	.675	16224	19.7	40	-F		P	1134	75	1.1		D ZX	
849 HUAN	17	2110		2115	S24	F24	.624	16224	19.7	5	-F	1	C	2114	20	.2		C ZX	
850 MANI	18	0256E	0258	0305D	S25	E18	.592	16224	19.5	90	-B	3	C		100			ZX	
GRP76851	18	0514+0	0515+1	0526	S23	E17	.561	16224	19.5	12	-F				110	1.3		V	
TACH	18	0514	0516	0530	S24	F17	.573	16224	19.5	16	-F		C	0516	106	1.4		E	
ABST	18	0514	0515	0522	S23	F17	.561	16224	19.5	8	-N		C	0515	105	1.3		GV	
GRP76852	18	0618+2	0625	0644	N08	F55	.814	16233	22.4	26	-N							EG	
ISTA	18	0618		0648	N08	F58	.843	16233	22.6	30	-B		V					EG	
HTPR	18	0620	0625	0640	N08	F53	.794	16233	22.2	20	-F		C	0625	30	.5			
853 ISTA	18	0700		0720	N13	M48	.736	16208	14.7	20	-N		V					D ZX	
GRP76854	18	0848+9	0950+1	1004	S26	F24	.646	16224	20.2	76	1F				160	2.1		EJ	
			1001																
ABST	18	0848	0950	1004	S26	E26	.661	16224	20.3	76	1F		C	0950	175	2.4		EJ	
HTPR	18	0949	0951	1000	S27	E26	.671	16224	20.4	11	1N		C	0951	150	1.7		E	
ABST	18	0950	0953	1000	S27	F17	.610	16224	19.7	10	-F		C	0953	96	1.2		D	
ABST	18	0955	1001	1005C	S25	F24	.635	16224	20.2	100	-F		P	1001	87	1.2		D	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.	
					LAT.	MER. DIST.											
	18	1120	1127		NC FLARE PATROL												
	18	1136	1151		NO FLARE PATROL												
	18	1155	1203		NO FLARE PATROL												
	18	1207	1217		NO FLARE PATROL												
	18	1238	1249		NO FLARE PATROL												
855 HUAN	18	1327	1328	1332	S24 E17	.573	16224	19.8	5	-F	1	C	1328	15	.2	C	ZX
GRP76856	18	1400+2	1402+1	1411	S25 E17	.585	16224	19.9	11	-N				45	.5		
HJAN	18	1400	1402	1411	S24 E15	.560	16224	19.7	11	-N	2	C	1402	40	.4	E	
RAMY	18	1402	1403	1410	S26 F19	.610	16224	20.0	8	-B	3	C		45		F	
GRP76857	18	1421+1	1430+1	1435	N08 E90	1.000	16239	25.3	14	-B							
HUAN	18	1421	1430	1436	N08 E90	1.000	16239	25.3	15	-N	1	C	1430	30			
RAMY	18	1422	1431	1434	N09 E90	1.000	16239	25.3	12	1B	3	C					
GRP76858	18	1448	1503	1533	N09 E85	.995	16239	25.0	45	-N							
			1516+4														
RAMY	18	1448	1503	1533	N09 E81	.985	16239	24.7	45	-N	3	C					
RAMY	18	1448	1520	1533	N09 E81	.985	16239	24.7	45	-N	3	C					
BIGB	18	1457E	1516	1529E	N09 E90	1.000	16239	25.4	320	-N	1	P	1516	60			
GRP76859	18	1454+0	1454+1	1502	S26 F21	.624	16224	20.2	8	-N				40	.5		
HUAN	18	1454	1454	1500	S27 E25	.663	16224	20.5	6	-N	2	C	1454	40	.5	E	
RAMY	18	1454	1455	1503	S26 E18	.604	16224	20.0	9	-B	3	C		41		FDE	
GRP76860	18	1731+0	1741+2	1812D	S15 E76	.979	16240	24.4	41	-B				45			
RAMY	18	1731	1741	1812D	S14 E73	.967	16240	24.2	410	-B	3	C				FDE	
BIGB	18	1731	1743	1752D	S16 E76	.980	16240	24.4	210	-B	1	P	1743	60			
HUAN	18	1731		1744D	S15 E82	.995	16240	24.9	130	-N	1	P	1739	30		E	
GRP76861	18	1847+0	1849	1902	S25 F14	.567	16224	19.8	15	-N				40	.5	E	
HUAN	18	1847		1856	S24 E13	.549	16224	19.8	9	-N	1	C	1849	35	.4	E	
HOLL	18	1847	1849	1908	S26 F16	.592	16224	20.0	21	-B	3	C		40			
862 HUAN	18	1928		1933	S27 E23	.649	16224	20.5	5	-F	1	C				E	ZX
GRP76863	18	2030+1	2032	2047	S24 F13	.549	16224	19.8	17	-N				35	.4	E	
HUAN	18	2030		2045D	S23 E11	.525	16224	19.7	150	-N	1	P	2030	30	.3	E	
HOLL	18	2031	2032	2047	S26 F16	.592	16224	20.1	16	-B	3	C		36			
	18	2110	2126		NC FLARE PATROL												
	18	0109	0111		NO FLARE PATROL												
	18	0115	0154		NO FLARE PATROL												
864 CULG	18	2310	2329	0007U	S25 F45	.810		22.3	57D	-F		C	2329	100	1.7	L	ZX
865 CULG	18	2343	2345	2353	S26 E16	.592	16224	20.2	10	-F		C	2345	30	.4		ZX
866 PURP	19	0017	0021	0035	S17 E39	.711	16231	21.9	18	?F		P				G	ZX
		IMP.1	NO 1	CULG	VORO												
867 CULG	19	0022	0024	0031	S33 W55	.911	16211	14.9	9	-N		C	0024	40	.9	G	ZX
868 CULG	19	0147	0149	0159	S33 W55	.911	16211	14.9	12	-F		C	0149	50	1.1	G	ZX
869 VORO	19	0212	0214	0217	S27 E17	.610	16224	20.4	5	-N		C	0214	63	.8		ZX
870 CATA	19	0530E	0530	0540	N07 E90	1.000	16239	26.0	100	?N	2	P	0530	56			ZX
		IMP.1	NO 1	PURP	MITK TACH												
GRP76871	19	0543+8	0545+1	0606	S26 F04	.545	16224	19.5	23	-N				90	1.1	E	
			0604														
TACH	19	0543	0546	0556D	S25 F04	.531	16224	19.5	130	-9		C	0546	88	.9	E	
ABST	19	0543	0545	0601	S26 E04	.545	16224	19.5	18	-N		P	0545	87	1.1	E	
ABST	19	0551	0604	0611	S27 F11	.580	16224	20.1	20	1F		C	0604	122	1.5	C	
GRP76872	19	0614+1	0615+5	0626	S22 E03	.484	16224	19.5	12	-N				50	.6	D	
ABST	19	0614	0620	0626	S24 F03	.514	16224	19.5	12	-N	*	P	0620	157	1.9	D	
MANI	19	0615E	0615U	0621	S22 E07	.494	16224	19.8	60	-N	3	C		25			
CATA	19	0615	0615	0630D	S22 W04	.486	16224	19.0	150	-N	*	P	0615	45	.5		
GRP76873	19	0658+1	0700	0712	S22 E06	.491	16224	19.7	14	-N				30	.3	J	
ISTA	19	0658		0708	S21 E07	.479	16224	19.8	10	-N		V				E	
ABST	19	0659	0700	0708D	S23 E05	.503	16224	19.7	90	-N		P	0700	105	1.3	DJ	
MANI	19	0705E	0705U	0713G	S22 E09	.502	16224	20.0	80	-N	3	C		15			
CULG	19	0707E	0707E	0712	S24 F04	.516	16224	19.6	50	-F		P	0707	30	.3		

66
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mil. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
874 ISTA	19	0744		0757	N04	E90	1.000	16239	26.1	13	-F	V				AD	ZX
875 ABST	19	0755	0755	0757D	N21	W71	.939	16208	14.0	20	?N	P	0755	131		EJ	ZX
876 ABST	19	0802E	0803	0827	N16	E90	.999	16238	26.1	250	?F	P	0803	87		DJ	ZX
877 ABST	19	0808	0811	0834	S25	E15	.574	16224	20.5	26	-F	C	0811	148	1.8	E	ZX
GRP76878	19	0844	0845	0850	S23	E04	.501	16224	19.7	6	-N			110	1.3	V	
ABST	19	0844	0845	0847	S23	E04	.501	16224	19.7	3	-N	C	0845	114	1.4	EV	
KHAR	19	0845E		0853	S23	E05	.503	16224	19.7	80	-N	P	0850	110	1.3	D	
879 KHAR	19	0852E	0857	0915D	N13	W63	.885	16208	14.6	230	?F	P	0857			EO	ZX
880 KHAR	19	0855E	0855	0910D	N05	E90	1.000	16239	26.1	150	-N	P	0855			DHO	ZX
881 KHAR	19	0910E	0912	0924D	N07	E43	.678	16233	22.6	140	-F	V	0912			EL	ZX
882 ABST	19	0911	0912	1000D	N16	E90	.999	16238	26.1	490	?F	P	0912	87		ADV	ZX
883 KHAR	19	0940E		1000D	N05	E90	1.000	16239	26.2	200	-F	V	0940			DH	ZX
884 KHAR	19	1022E		1045D	N05	E90	1.000	16239	26.2	230	-F	V	1024			DH	ZX
885 KHAR	19	1031E	1033	1106D	S16	E45	.767	16231	22.8	350	1F	P	1033	150	2.5	CH	ZX
886 KHAR	19	1036E		1048D	S16	E67	.940	16240	24.5	120	-F	V	1036			D	ZX
887 KHAR	19	1036E		1048D	N07	E43	.678	16233	22.7	120	-F	* V	1036			EL	ZX
	19	1106	1111	NO FLARE PATROL													
888 RAMY	19	1146	1201	1206	S14	E44	.747	16231	22.8	20	-N	3 C		18			ZX
889 RAMY	19	1209	1211	1237	N13	W61	.868	16208	14.9	28	-N	3 C		17			ZX
GRP76890	19	1314+5	1334+1	1405	S14	E44	.747	16231	22.9	51	-N			60	.9		
RAMY	19	1314	1335	1405	S14	E44	.747	16231	22.9	51	-N	3 C		57			
MCMA	19	1319		1408	S17	E46	.781	16231	23.0	49	-N	P	1335	35	.6	E	
LVOV	19	1334	1334	1349	S14	E45	.758	16231	22.9	15	1N	C	1334	200	3.1	DC	
ZURI	19	1339E	1339	1349D	S15	E44	.752	16231	22.9	100	-N	P	1339	60	1.0		
GRP76891	19	1536+3	1540+2	1557	S26	E06	.549	16224	20.1	21	-N			50	.6	E	
HUAN	19	1536		1557	S26	E08	.555	16224	20.3	21	-N	1 C	1547			E	
BIGB	19	1538	1542	1556	S25	E05	.533	16224	20.0	18	-N	2 C	1542	50	.5		
HOLL	19	1538	1540	1559	S26	E05	.547	16224	20.0	21	-B	3 C		57			
RAMY	19	1539	1540	1552	S25	E05	.533	16224	20.0	13	-N	3 C		33			
MCMA	19	1549E		1550D	S27	E07	.566	16224	20.2	10	-F	P	1549	30	.3	E	
892 BIGB	19	1541	1544	1608	S16	E43	.747	16231	22.9	27	-N	2 C	1544	20	.3		ZX
GRP76893	19	1554+1	1555+1	1607	S16	E62	.910	16240	24.3	13	-F			20	.5		
HOLL	19	1554	1555	1614	S16	E62	.910	16240	24.3	20	-F	3 C		23			
RAMY	19	1555	1556	1559	S17	E63	.918	16240	24.4	4	-F	3 C		20			
GRP76894	19	1645+0	1647	1700	S15	E43	.742	16231	22.9	15	-F			20	.3	D	
HUAN	19	1645E		1649D	S15	E45	.762	16231	23.1	40	-F	1 P	1648	20	.3	CO	
BIGB	19	1645	1647	1700	S16	E42	.736	16231	22.8	15	-N	1 C	1647	20	.3		
895 MCMA	19	1729	1734	1738D	S18	E42	.747	16231	22.9	90	-N	C	1734	25	.4	D	ZX
896 PALE	19	1758	1759	1806	N13	W65	.900	16208	14.9	8	-N	3 C		22			ZX
GRP76897	19	1826	1827	1834	S17	E41	.731	16231	22.8	8	-N			20	.3	D	
PALE	19	1826	1827	1832	S16	E41	.726	16231	22.8	6	-N	3 C		21		DE	
MCMA	19	1827E		1835	S18	E42	.747	16231	22.9	80	-N	C	1827	20	.3	D	
898 HOLL	19	2019	2020	2029	S24	E02	.513	16224	20.0	10	-B	3 C		35		F	ZX
899 HOLL	19	2053	2058	2118	N12	W66	.908	16208	14.9	25	-B	3 C		35		F	ZX
900 HOLL	19	2107	2110	2117	S22	W03	.484	16224	19.7	10	-B	3 C		51		U	ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA		
					LAT.	MER. DIST.												Mill. of Disk
901 HOLL	19	2156	2157	2205	N11	H69	.928	16208	14.7	9	-N	3	C		12			ZX
902 HOLL	19	2223	2224	2233	S26	E02	.543	16224	20.1	10	-N	3	C		23			F ZX
GRP76903	19	2228+9	2251 2306+7	23290	N05	E03	.991	16239	26.2	61	-N							KY
HOLL	19	2228	2306	0033	N07	E00	.983	16239	25.9	125	-B	3	C					Y
HOLL	19	2228	2251	2339	N07	E00	.983	16239	25.9	71	-N	3	C					Y
CULG	19	2237	2313	2329	N03	E86	.997	16239	26.4	52	-F		C	2313	40			KT
GRP76904	19	2330+3	2335+1 2344	2346	N04	E85	.996	16239	26.4	16	-N							OY
HOLL	19	2228	2336	2339	N07	E80	.983	16239	25.9	71	-B	3	C					Y
CULG	19	2330	2344	0002	N03	E85	.996	16239	26.4	32	1N		C	2344	80			T
VORO	19	2333	2335	2346	N04	E90	1.000	16239	26.7	13	-N		C	2335	18			O
905 CULG	19	2359	2406	0014	N11	H85	.994	16208	13.6	15	-F		C	2406	30			F ZX
GRP76906	20	0010+4	0019+4	0028	N03	E87	.998	16239	26.5	18	-N							D
CULG	20	0010	0023	0033	N03	E85	.996	16239	26.4	23	1N	*	C	0023	100			T
VORO	20	0014	0019	0023	N04	E90	1.000	16239	26.8	9	-F	*	C	0019	27			D
GRP76907	20	0035+9	0059 0209	02200	N16	H76	.965	16208	14.3	105	1F							FIJS
CULG	20	0035U	0120U	0252U	N18	H80	.980	16208	14.0	1370	1F		C	0128	110			FIS
VORO	20	0057	0059	0109	N16	H73	.950	16208	14.6	12	-F		C	0059	36			DJ
VORO	20	0203	0209	0220	N12	H70	.934	16208	14.8	17	1F		C	0209	116			DJ
GRP76908	20	0052+8	0103+6	0116	N04	E80	.984	16239	26.0	24	-B				30			D
HOLL	20	0052	0108	0119	N06	E76	.968	16239	25.7	27	-B	2	C		34			DE
CULG	20	0059	0105	0117	N03	E84	.994	16239	26.3	18	-N		C	0105	50			T
VORO	20	0100	0103	0110	N04	E90	1.000	16239	26.8	10	-B		C	0103	27			D
MANI	20	0105E	0109U	0114D	N05	E75	.964	16239	25.7	90	-B	3	C		20			
909 VORO	20	0058	0100	0111	S28	E04	.574	16224	20.3	13	-N		C	0100	108	1.3		D ZX
GRP76910	20	0100+7	0101 0108+1	0116	S22	H06	.492	16224	19.6	16	-N				90	1.0		
HOLL	20	0100	0101	0116	S22	H06	.492	16224	19.6	16	-N	2	C		24			
VORO	20	0106	0108	0116	S22	H06	.492	16224	19.6	10	-N		C	0108	108	1.2		
CULG	20	0107	0109	0123	S22	H08	.498	16224	19.4	16	-F		C	0109	80	.9		
GRP76911	20	0109+4	0124+3	0216	S17	E26	.574	16231	22.0	67	-N							EU
CULG	20	0109	0127	0228	S18	E25	.574	16231	21.9	79	-N		C	0127	110	1.3		U
VORO	20	0113	0124	0204	S17	E27	.585	16231	22.1	51	1F		C	0124	260	3.2		E
912 HOLL	20	0118	0119	01210	S28	E04	.574	16224	20.4	30	-B	2	C		25			ZX
913 VORO	20	0206	0207	0210	S28	E03	.573	16224	20.3	4	-N		C	0207	45	.5		DJ ZX
914 VORO	20	0219	0221	0226	S28	E03	.573	16224	20.3	7	-N		C	0221	90	1.1		D ZX
GRP76915	20	0235+6	0243+1	0255	N04	E83	.992	16239	26.3	20	-B				70			J
CULG	20	0235	0244	0307	N03	E83	.992	16239	26.3	32	1N		C	0244	100			FJT
VORO	20	0241	0243	0246	N04	E90	1.000	16239	26.9	5	-B		C	0243	45			DJ
MANI	20	0245E	0245U	0255D	N05	E76	.968	16239	25.8	100	-B	3	C		50			
916 CULG	20	0319	0331	0352	S14	E08	.380	16243	20.7	33	-F		C	0331	60	.6		ZX
917 CULG	20	0330	0348	0410	N27	H85	.991	16207	13.8	40	1F		C	0348	60			FI ZX
GRP76918	20	0506+2	0513+2	0519	N04	E81	.987	16239	26.3	13	1N				70			DJ
CULG	20	0506	0514	0528	N03	E81	.987	16239	26.3	22	1N		C	0514	70			T
MANI	20	0508E	0513U	0519D	N05	E75	.964	16239	25.8	110	-B		C		50			
ARST	20	0508	0515	0518	N04	E89	1.000	16239	26.9	10	1N		C	0515	131			DJ
GRP76919	20	0527+0	0528+1	0540	S16	E34	.652	16231	22.8	13	-N				60	.8		DJV
CULG	20	0527	0529	0541	S17	E34	.659	16231	22.8	14	-B		C	0529	40	.5		DJV
ARST	20	0527	0528	0539	S16	E34	.652	16231	22.8	12	-N		C	0528	87	1.2		
GRP76920	20	0655	0701 0722+3	0736	N05	E82	.989	16239	26.4	41	1N				160			AEJZ
CULG	20	0655	0701	0707	N03	E81	.987	16239	26.4	12	-F		C	0701	50			T
ISTA	20	0700E		0732	N06	E90	1.000	16239	27.0	320	1B		V					AB
ARST	20	0716	0722	0732	N04	E85	.996	16239	26.7	16	2N		C	0716	201			AEJ
ATHN	20	0723E	0725	0750	N05	E77	.973	16239	26.1	270	1B	4	C		222			Z
CATA	20	0725	0725	0740	N05	E85	.995	16239	26.7	15	1B	2	C	0725	112			
MONT	20	0730E	0732	0741	N05	E75	.980	16239	26.2	110	-N		C	0732				E

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA		
					LAT.	MER. DIST.												MIH. of Disk
GRP76921	20	0706+0	0707+2	0720	S32	E76	.990	16241	26.0	14	-N							DJV
CULG	20	0706	0709	0713D	S34	E76	.991	16241	26.0	70	-N							T
ABST	20	0706	0707	0720	S31	E76	.990	16241	26.0	14	1N	C	0709	40				OJV
922 ISTA	20	0728		0739	S16	E35	.663	16231	22.9	11	-N	V						D ZX
GRP76923	20	0815		0904D	N07	E77	.972	16239	26.1	49	1N							DU
ISTA	20	0815		0850	N07	E77	.972	16239	26.1	35	1B	V						U
KHAR	20	0840E		0905D	N12	E77	.970	16239	26.1	250	-F	P	0853	80				C
KANZ	20	0855E		0908D	N06	E73	.954	16239	25.8	130	1N	1						
924 ABST	20	0834	0836	0910	N12	W78	.974	16208	14.5	36	?F	C	0836	87				DJ ZX
		IMP.1	NO	: CATA														
925 KHAR	20	0848E	0850	0900D	S16	E34	.652	16231	22.9	120	-N	P	0853	90	1.3			D ZX
GRP76926	20	0904+4	0912	1040	N05	E77	.973	16239	26.2	96	2B			240				EHJOPV
			0912	0916>9														
KHAR	20	0835E	0912	1240D	N05	E78	.976	16239	26.2	245D	3B	* P	0910	600				CEHOPV
ABST	20	0904	0920	1000	N05	E80	.983	16239	26.4	56	1N	* C	0920	175				EJ
CATA	20	0905	0926	1035	N06	E75	.963	16239	26.0	90	2B	* C	0926	365				
ATHN	20	0906	0923	1045	N05	E76	.968	16239	26.1	99	2B	* C		254				FDE
MONT	20	0908	0916	0920D	N05	E78	.976	16239	26.2	120	1B	* C	0916	180				
KANZ	20	0920E	0925	0929D	N03	E77	.973	16239	26.2	90	1B	*						
927 ABST	20	0936	0938	0950	N12	W78	.974	16208	14.6	14	?F	C	0938	87				OJ ZX
		IMP.1	NO	: CATA														
928 CATA	20	1055	1105	1105D	N04	E90	1.000	16239	27.2	100	1F	2 P	1105	84				ZX
GRP76929	20	1109E		1136D	N11	W80	.981	16208	14.5	27	-F							
KHAR	20	1109E		1136D	N10	W80	.982	16208	14.5	27D	-F	P						DT
KHAR	20	1122E		1122D	N13	W80	.981	16208	14.5		-F	* P						D
930 KHAR	20	1116E		1130D	N18	W90	.959	16208	13.7	140	-F	P	1119					CHT ZX
931 KHAR	20	1120E		1150D	N27	W90	.999	16207	13.7	300	-F	P						H ZX
932 RANY	20	1141	1148	1322	N07	E72	.944	16239	25.9	101	-B	* C		70				ZX
GRP76933	20	1142+0	1144+2	1156	S25	W04	.521	16224	20.2	14	-N							E
RAMY	20	1142	1144	1148	S25	W05	.533	16224	20.1	6	-B	3 C						
KHAR	20	1142	1146	1203D	S26	W03	.544	16224	20.3	210	-F	P	1146	160	2.0			E
934 KHAR	20	1150E		1200D	N19	W90	.959	16208	13.7	100	-N	P	1150					H ZX
GRP76935	20	1235+7	1300	1313	N11	W80	.981	16208	14.5	38	-F							
KHAR	20	1235E		1255D	N10	W85	.994	16208	14.1	200	-F	P						DT
RAMY	20	1242	1300	1308	N12	W78	.974	16208	14.7	26	-N	3 C						
KHAR	20	1258E		1317D	N10	W80	.982	16208	14.5	190	-F	P						T
GRP76936	20	1307+1	1310+1	1352	N07	E27	.451	16233	22.6	45	-N							
KHAR	20	1307E	1310	1340D	N07	E27	.451	16233	22.6	33D	-F	P	1310	90	1.0			
RAMY	20	1308	1311	1352	N08	E28	.466	16233	22.6	44	-B	3 C		79	1.2			
937 RANY	20	1318	1321	1324	N12	W78	.974	16208	14.7	6	-N	3 C						ZX
938 RANY	20	1323	1404	1427	N07	E74	.958	16239	26.1	64	-B	3 C						F ZX
939 RANY	20	1419	1455	1503	S15	E15	.445	16231	21.7	44	-F	3 C		23				ZX
940 RANY	20	1527	1531	1531	S15	E15	.445	16231	21.8	4	-F	3 C		29				ZX
GRP76941	20	1545>9	1607+1	1737	S16	E14	.450	16231	21.7	112	-B			160	1.8			U
			1657															
RAMY	20	1545	1602	1629	S15	E14	.437	16231	21.7	44	-B	3 C		132				F
HOLL	20	1604	1607	1805	S16	E14	.450	16231	21.7	121	1B	3 V		197				U
BIGB	20	1652E	1657	1729	S16	E06	.401	16231	21.2	370	-N	2 P	1657	120	1.2			
HUAN	20	1703E		1744	S16	E16	.466	16231	21.9	41D	-N	1 P	1705	110	1.2			E
	20	1600	1602	NO FLARE PATROL														
GRP76942	20	1605>9	1627+2	1639	S30	E72	.979	16241	26.1	34	-N			10				
RAMY	20	1605	1627	1630D	S30	E70	.972	16241	25.9	250	-N	3 C		14				
HOLL	20	1627	1629	1639	S30	E75	.987	16241	26.3	12	-N	3 C		9				
943 RANY	20	1618	1618	1630	S12	E42	.717	16240	23.8	12	-N	3 C		26				ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST.											
GRP76986	21	1640+8	1652+4	1728	N07	E55	.815	16239	25.8	48	-N			80	1.4	E	
HOLL	21	1640	1652	1735	N08	E54	.804	16239	25.7	55	-B	3	C	75		DE	
HTPR	21	1643	1656	1722	N07	E51	.773	16239	25.5	39	-N		C	1656	80	1.2	E
MCMA	21	1644	1702	1730D	N06	E57	.835	16239	26.0	460	1N		C	1702	125	2.2	E
HUAN	21	1646E		1705D	N08	E55	.814	16239	25.8	190	-N	1	P	1655	60	1.0	E
BIGB	21	1648	1656	1733	N07	E55	.815	16239	25.8	45	-B	2	C	1656	50	.9	
RAMY	21	1654E	1656U	1719	N06	E57	.835	16239	26.0	250	-B	3	C	110		F	
GRP76987	21	1734+2	1735+2	1748	S15	W01	.373	16231	21.7	14	-N			50	.5	E	
BIGB	21	1734	1735	1749	S15	E00	.373	16231	21.7	15	-N	2	C	1735	30	.3	
MCMA	21	1735	1735	1753	S16	W01	.389	16231	21.7	18	-N		C	1735	50	.6	E
HOLL	21	1735	1736	1749	S14	W01	.357	16231	21.7	14	-B	3	C	60		DE	
HUAN	21	1736	1737	1747	S15	E01	.373	16231	21.8	11	-N	1	C	1737	50	.5	E
PALE	21	1736	1736	1742	S16	W01	.389	16231	21.7	6	-N	3	C	43		DE	
GRP76988	21	1748+4	1751+2	1803	S24	W29	.668	16224	19.6	15	-N			70	.9	E	
BIGB	21	1748	1751	1805	S23	W30	.668	16224	19.5	17	-N	2	C	1751	70	.8	
MCMA	21	1748	1751	1803	S23	W31	.676	16224	19.4	15	-N		C	1751	50	.7	E
HUAN	21	1749	1752	1803	S25	W28	.668	16224	19.6	14	-N	2	C	1752	100	1.3	E
HOLL	21	1749	1753	1802	S26	W22	.632	16224	20.1	13	-B	3	C	81			
PALE	21	1752	1753	1759	S24	W30	.676	16224	19.5	7	-N	3	C	31		DE	
GRP76989	21	1800+1	1802+1	1818	S15	W00	.373	16231	21.7	18	-N			45	.5	E	
MCMA	21	1800	1802	1818	S16	W02	.390	16231	21.6	18	-N		C	1802	50	.6	E
HUAN	21	1809		1807D	S15	E01	.373	16231	21.8	70	-N	1	P	1804	50	.5	E
PALE	21	1801	1803	1816	S15	W01	.373	16231	21.7	15	-N	3	C	43		DE	
BIGB	21	1801	1802	1819	S15	E00	.373	16231	21.8	18	-B	2	C	1802	40	.4	
GRP76990	21	1826+0	1828+0	1831	N04	E57	.837	16239	26.0	5	-N			20	.4	D	
MCMA	21	1826E	1828	1831	N04	E57	.837	16239	26.0	50	-N		C	1828	20	.4	D
BIGB	21	1826	1828	1831	N05	E57	.836	16239	26.0	5	-B	2	C	1828	20	.4	D
GRP76991	21	1934+2	1935+2	1946	S15	W02	.374	16231	21.7	12	-N			30	.3		
BIGB	21	1934	1935	1951	S15	W03	.376	16231	21.6	17	-F	2	C	1935	30	.3	
HOLL	21	1935	1936	1946	S14	W02	.358	16231	21.7	11	-B	3	C	52			
PALE	21	1936	1937	1940	S15	W02	.374	16231	21.7	4	-N	3	C	22		DE	
992 BIGB	21	1935	1936	1945	N05	E56	.826	16239	26.0	10	-N	2	C	1936	20	.4	ZX
993 BIGB	21	2056	2057	2109	N05	E57	.836	16239	26.1	13	-N	2	C	2057	30	.6	ZX
994 BIGB	21	2057	2111	2133	S32	E56	.913	16241	26.1	36	-N	2	C	2111	30	.6	ZX
995 BIGB	21	2149	2152	2202	N05	E57	.836	16239	26.2	13	-F	2	C	2152	30	.6	ZX
996 BIGB	21	2153	2156	2207	S14	E2E	.542	16240	23.9	14	-F	2	C	2156	20	.2	ZX
GRP76997	21	2221	2229+0	2240	N04	E54	.807	16239	26.0	19	-F			50	.9		
BIGB	21	2221	2229	2236	N04	E55	.817	16239	26.1	15	-N	2	C	2229	70	1.2	
CULG	21	2224E	2229	2244	N04	E54	.807	16239	26.0	200	-F		P	2229	40	.7	T
GRP76998	21	2231	2254	0213	S27	W22	.643	16224	20.3	222	-N						
PURP	22	0008		0022	S26	W19	.612	16224	20.6	14	1N		P				
PURP	22	0155E	0155	0213	S28	W25	.675	16224	20.2	18D	1N		P				
CULG	21	2231	2354U	0156U	S26	W23	.640	16224	20.2	2050	-N		C	2354	140	1.8	T
HOLL	21	2256E	2256U	0116D	S27	W21	.636	16224	20.4	1400	-N	3	C	65			
999 BIGB	21	2232	2239	2245	S32	E55	.908	16241	26.1	13	-N	2	C	2239	30	.5	ZX
GRP77000	21	2300+7	2308+1	2325	N05	E55	.816	16239	26.1	25	-N			80	1.4		
HOLL	21	2300	2308	0034	N05	E54	.806	16239	26.0	94	-B	3	C	107		DE	
CULG	21	2300	2309	2325U	N05	E55	.816	16239	26.1	250	-N		C	2309	90	1.5	T
BIGB	21	2307	2308	2319	N04	E55	.817	16239	26.1	12	-N	2	C	2308	80	1.4	
PALE	21	2313E	2313U	2324	N06	E55	.833	16239	26.1	110	-N	3	C	30		F	
GRP77001	21	2332+9	2356+5	0029	N05	E54	.806	16239	26.0	57	-N			50	.9	F	
BIGB	22	0000	0001	0013	N04	E55	.817	16239	26.1	13	-N	*	C	0001	30	.3	
MANI	22	0001E	0001U	0029D	N06	E55	.815	16239	26.1	280	-B	*	C	50		F	
CULG	21	2332	2356U	2359D	N04	E53	.797	16239	26.0	270	-N	*	P	2356	60	1.0	T
PALE	21	2351	2400	0030D	N06	E54	.823	16239	26.0	390	-B	3	C	40		F	
GRP77002	22	0037+7	0042+7	0116	N06	E54	.805	16239	26.1	39	-N			50	.9		
HOLL	22	0037	0045	0116D	N06	E53	.795	16239	26.0	390	-B	2	C	69			
MANI	22	0040E	0042	0047D	N06	E55	.815	16239	26.2	70	-B	3	C	60			
CULG	22	0043	0049	0122	N05	E55	.816	16239	26.2	39	-F		C	0049	60	1.0	T
PALE	22	0044	0046	0052	N06	E54	.805	16239	26.1	8	-B	3	C	28			

72
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR. AREA Sq Deg	
					LAT.	NER. DIST.												
3 HOLL	22	0104	0106	0116	S12	E24	.507	16240	23.8	12	-N	2	C		31			ZX
4 CULG	22	0123	0125	0137	S18	E30	.625	16240	24.3	14	-F		C	0125	80	1.0	T	ZX
5 PURP	22	0140	0155	0156	N16	W08	.208	16232	21.5	16	-B		P					ZX
6 CULG	22	0154	0203	0236U	S25	W37	.745	16225	19.3	42D	?N		P	0203	180	2.7	FT	ZX
		IMP.1 NO :	EIGB	PURP														
GRP77007	22	0155	0219	0254	N05	E51	.774	16239	25.9	59	1N							
			0237															
PURP	22	0155	0219	0248	N05	E52	.785	16239	26.0	53	1N		C		264	4.2		
PALE	22	0229E	0255	0300D	N06	E51	.773	16239	25.9	310	-N	3	C		57			FDE
PALE	22	0229E	0237	0300D	N06	E51	.773	16239	25.9	310	-N	3	C		37			FDE
GRP77008	22	0227	0229+2	0256	S25	W26	.653	16224	20.2	29	-F							
CULG	22	0227	0231	0256	S24	W27	.651	16224	20.1	29	-F		C	0231	30	.4		
PALE	22	0229E	0229U	0253D	S26	W26	.663	16224	20.2	240	-N	3	C		122			CE
GRP77009	22	0311+9	0418	0520C	N05	E51	.774	16239	26.0	129	1F							EKV
			0501															
PURP	22	0311	0418	0607	N05	E52	.785	16239	26.0	176	1F		P		302	4.6		K
ABST	22	0500	0501	0520	N05	E50	.763	16239	26.0	20	1N		C	0501	174	2.4		EV
10 HTPR	22	0555E		0605	S21	E90	1.000	16245	29.0	100	-F		C	0555	30			ZX
GRP77011	22	0615+0	0624	0715	N05	E52	.785	16239	26.2	60	-N							
			0640															
HTPR	22	0615	0640	0715	N05	E49	.752	16239	25.9	60	-F		C	0640	20	.3		
PURP	22	0615	0624	0713	N05	E54	.806	16239	26.3	58	1B		P					
WEND	22	0704E		0733D	N05	E52	.785	16239	26.2	290	-F		C	0705	40	.7		
12 HTPR	22	0619	0620	0630	S13	W08	.366	16231	21.7	11	-F		C	0620	10	.1		ZX
GRP77013	22	0909+4	0913+3	0923	S13	W11	.386	16231	21.6	14	-F				60	.6		E
			0928															
KANZ	22	0909	091E	0928	S13	W11	.386	16231	21.6	19	-F	2						
KHAR	22	0910E		0920D	S14	W11	.400	16231	21.6	100	-F		P	0910	100	1.1		ET
HTPR	22	0912	0914	0922	S13	W09	.372	16231	21.7	10	-F		C	0914	20	.2		E
MONT	22	0912	0914	0938	S13	W11	.386	16231	21.6	26	-F		C	0914	50			E
ZURI	22	0913	0913	0919	S13	W11	.386	16231	21.6	6	-N		C	0913	80	.9		
GRP77014	22	0914+3	0920+4	0934	S21	E86	1.000	16245	28.8	20	1N				80			AEHC
			1000D															EHOT
KHAR	22	0914E	0920	1000D	S21	E85	.999	16245	28.8	46D	1N		P	0922				
MONT	22	0915	0923	0932	S21	E90	1.001	16245	29.1	17	-B		C	0923	70			
KANZ	22	0916	0924	0932	S23	E85	.999	16245	28.8	16	-B	2						
HTPR	22	0917	0924	0931	S21	E88	1.000	16245	29.0	14	-N		C	0924	80			A
ZURI	22	0917	0923	0927	S21	E83	.998	16245	28.6	10	1N		C	0923	100			
GATA	22	0935E	0935	0940	S22	E85	.999	16245	28.8	5D	1N	1	P	0935	84			
GRP77015	22	1030+3	1033+2	1048	S17	W10	.437	16231	21.7	18	-F				60	.7		D
			1050D															DT
KHAR	22	1030E	1033	1050D	S18	W11	.457	16231	21.6	200	-F		P	1037	60	.7		
ZURI	22	1033	1035	1045	S17	W10	.437	16231	21.7	12	-N		C	1035	60	.7		
GRP77016	22	1044+5	1052+6	1118	S21	E84	.999	16245	28.7	34	-N							AEH
			1115															AE
HTPR	22	1044	1052	1115	S15	E85	.999	16245	28.8	31	-F		C	1052	40			
ZURI	22	1047	1053	1053D	S21	E83	.998	16245	28.7	6D	1N		P	1053	180			
KANZ	22	1049	1053	1113	S23	E80	.994	16245	28.5	24	-B	2						
KHAR	22	1057E	1058	1120D	S21	E85	.999	16245	28.8	23D	-F		P	1109				H
GATA	22	1105E	1105	1135	S20	E90	1.001	16245	29.2	30D	1N	1	P	1105	140			
17 TELV	22	1104	1112	122D	S15	W27	.568	16243	20.4	76	?F	3	C	1112	240	2.8	S	ZX
		IMP.1 NO :	HTPR	KANZ	GATA													
18 KHAR	22	1122E		1202D	N08	E53	.794	16239	26.4	40D	-F		P	1128	90	1.6	E	ZX
19 KHAR	22	1135E		1138D	S14	W13	.416	16231	21.5	3D	-F		P	1138	40	.4	D	ZX
GRP77020	22	1210	1227+2	1238	S32	W29	.740	16224	20.3	28	-F							E
			1238															
HTPR	22	1210	1227	1238	S35	W30	.772	16224	20.3	28	-F		C	1227	30	.4		
KHAR	22	1215E	1229	1230D	S30	W29	.722	16224	20.3	15D	-F		F	1229	100	1.5		CE
GRP77021	22	1259+1	1303+1	1310	S32	W30	.747	16224	20.3	11	-F				35	.5		C
			1310															D
MCMA	22	1259	1304	1310	S30	W30	.729	16224	20.3	11	-N		C	1304	35	.5		
HTPR	22	1300	1303	1309	S35	W31	.778	16224	20.2	9	-F		C	1303	30	.4		
22 HOLL	22	1342	1344	1356	S25	W42	.786	16224	19.4	14	-N	3	C		21			ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST											
GRP77023	22	1342+2	1344+4	1355	S13	W13	.403	16231	21.6	13	-N			40	.4	E	
HTPR	22	1342	1344	1355	S13	W12	.394	16231	21.7	13	-F	C	1344	40	.4	E	
MCHA	22	1343E	1348	1352D	S12	W14	.399	16231	21.5	90	-N	C	1348	50	.6	E	
HOLL	22	1344	1347	1355	S13	W13	.403	16231	21.6	11	-B	3 C		41			
24 BIGB	22	1513	1514	1538	N18	W59	.852	16218	18.2	25	-F	3 C	1514	40	.8	ZX	
GRP77025	22	1546+2	1549+2	1555	S21	E87	1.000	16253	29.2	9	-N			60		A	
HTPR	22	1546	1549	1555	S15	E88	1.000	16253	29.3	9	-N	C	1549	60		A	
BIGB	22	1547	1549	1555	S22	E85	.999	16253	29.0	8	-N	3 C	1549	80			
HUAN	22	1548	1551	1557	S21	E87	1.000	16253	29.2	9	-N	1 C	1551	30			
GRP77026	22	1641+0	1642+0	1648	S25	W42	.786	16224	19.5	7	-N			30	.5	C	
HOLL	22	1641	1642	1646	S26	W34	.727	16224	20.1	5	-B	3 C		38			
BIGB	22	1641	1642	1642D	S23	W43	.784	16224	19.5	10	-N	3 P	1642	30	.4		
HUAN	22	1644E		1650	S25	W42	.786	16224	19.5	60	-F	1 P	1645	20	.3	D	
GRP77027	22	1722+2	1727+5	1807	N06	E47	.728	16239	26.2	45	-N			40	.6		
BIGB	22	1722	1727	1807	N05	E47	.729	16239	26.2	45	-N	3 C	1727	40	.6		
HUAN	22	1724		1750	N06	E47	.728	16239	26.3	26	-F	1 P	1735	55	.8	E	
PALE	22	1726E	1732	1857D	N06	E44	.691	16239	26.0	910	-N	3 C		32		FDE	
GRP77028	22	1749+7	1754+3	1803	S14	E18	.462	16240	24.1	14	-N			30	.3		
HUAN	22	1749		1759	S14	E19	.472	16240	24.2	10	-F	1 C				D	
BIGB	22	1753	1754	1803	S13	E18	.451	16240	24.1	10	-N	3 C	1754	40	.4		
PALE	22	1756	1757	1857D	S14	E15	.433	16240	23.9	610	-N	3 C		23		FDE	
GRP77029	22	1850+3	1857+1	1948	N07	E40	.639	16239	25.8	58	-B			50	.7		
HOLL	22	1850	1858	1947	N08	E40	.638	16239	25.8	57	-B	* C		61		FDE	
RAMY	22	1851	1857	1949	N06	E42	.666	16239	25.9	58	-B	* C		51		F	
HUAN	22	1853		1932	N08	E40	.638	16239	25.8	39	-N	* C	1904	35	.4		
PALE	22	1912E	1912U	2033D	N07	E39	.625	16239	25.7	810	-B	* C		52			
GRP77030	22	2134+9	2200+4	2214	S24	W45	.806	16224	19.5	40	-F			60	1.0		
CULG	22	2134	2204	2215	S23	W46	.809	16224	19.4	41	-N	C	2204	80	1.4		
BIGB	22	2154	2200	2212	S25	W45	.811	16224	19.5	18	-F	3 C	2200	40	.6		
GRP77031	22	2155	2158	2243	N16	E50	.763	16238	26.7	48	-F					G	
BIGB	22	2155	2158	2238	N15	E50	.762	16238	26.7	43	-F	2 C	2158	40	.6	G	
CULG	22	2202E	2215U	2247	N18	E50	.765	16238	26.7	45D	-F	C	2215	40	.6		
32 BIGB	22	2215	2219	2235	N05	E43	.679	16239	26.2	20	-N	2 C	2219	20	.3	ZX	
GRP77033	22	2248+0	2249+1	2308	S35	E51	.897	16241	26.8	20	-F						
BIGB	22	2248	2249	2306	S35	E51	.897	16241	26.8	18	-F	2 C	2249	20	.3		
CULG	22	2248	2250	2310	S36	E51	.901	16241	26.8	22	-F	C	2250	60	1.3		
GRP77034	22	2300+9	2308	0034	N05	E54	.806	16239	27.0	94	-B			50	.9		
HOLL	22	2300	2400+0	0034	N05	E54	.806	16239	27.0	94	-B	3 C		65		DE	
HOLL	22	2300	2308	0034	N05	E54	.806	16239	27.0	94	-B	3 C		107		DE	
PALE	22	2351	2400	0030D	N06	E54	.805	16239	27.0	390	-B	3 C		40		F	
35 CULG	22	2311	2313	2321	S15	E08	.396	16240	23.6	10	-F	C	2313	50	.5	ZX	
GRP77036	22	2333+0	2334+1	2343	S12	W33	.614	16243	20.5	10	-B					G	
CULG	22	2333	2335	2346	S12	W34	.626	16243	20.4	13	-B	C	2335	40	.5		
HOLL	22	2333	2334	2360	S14	W29	.582	16243	20.8	30	-B	3 V		92			
BIGB	22	2333	2334	2340	S12	W33	.614	16243	20.5	7	-N	2 C	2334	20	.2	G	
GRP77037	22	2336+5	2350+3	0010	S22	E75	.981	16245	28.6	34	1N			100		G	
CULG	22	2336	2351	0010U	S22	E76	.984	16245	28.7	340	18	C	2351	140		G	
BIGB	22	2341	2350	0000D	S22	E75	.981	16245	28.6	190	-N	2 P	2350	70			
HOLL	22	2353	2353	0010	S19	E73	.972	16245	28.5	17	1N	3 C					
38 CULG	22	2357	2400	0007	S14	E11	.400	16240	23.8	10	-F	C	2400	30	.3	ZX	
GRP77039	23	0125	0139	0153	S15	E13	.430	16240	24.0	28	-F			50	.5	D	
CULG	23	0125	0139	0154	S15	E13	.430	16240	24.0	29	-F	C	0139	30	.3		
VORO	23	0139E		0152	S16	E14	.451	16240	24.1	130	-N	P	0140	72	.8	D	
GRP77040	23	0209	0214	0221	S25	W39	.762	16224	20.2	12	-N			130	2.0		
CULG	23	0209	0214	0223	S25	W40	.770	16224	20.1	14	-N	C	0214	90	1.4	F	
VORO	23	0211E		0219	S26	W38	.760	16224	20.2	80	1F	P	0214	179	2.8	CE	
41 CULG	23	0215	0217	0225	N05	E41	.654	16239	26.2	10	-F	C	0217	30	.4	ZX	

74
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY				TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.				
					LAT.	MER. DIST.													
42 PALE	23	0307	0312	0319	N06	E42	.666	16239	26.3	12	-N	3	C	63		FDE	ZX		
43 CULG	23	0339	0358	0414	S31	W36	.780	16224	20.5	35	-N		C	0358	60	1.0	F	ZX	
44 CULG	23	0407	0408	0423	N16	E48	.741	16238	26.8	16	-N		C	0408	40	.6		ZX	
45 CULG	23	0441	0442	0449	S23	W51	.849	16224	19.4	8	-N		C	0442	30	.6		ZX	
46 CULG	23	0442	0446	0459	S36	E49	.858	16241	26.9	17	-F		C	0446	30	.7		ZX	
47 CULG	23	0504	0508	0510	S30	W40	.802	16224	20.2	6	-F		C	0508	20	.3		ZX	
48 CULG	23	0513	0517	0537	N16	E47	.729	16238	26.7	24	-F		C	0517	40	.6		ZX	
GRP77049	23	0534+9	0548+5	0611	N05	E39	.627	16239	26.2	37	-N						FJ		
CULG	23	0534	0553	0614	N06	E38	.612	16239	26.1	40	-B		C	0553	80	1.0	F	ZX	
ABST	23	0545	0551	0600	N05	E40	.640	16239	26.2	15	1N		C	0551	174	2.4	EJ		
HTPR	23	0546E		0610	N05	E37	.680	16239	26.0	240	-F		C	0552	40	.5	F		
PURP	23	0548E	0548	0611	N05	E43	.675	16239	26.5	230	-F		C						
GRP77050	23	0804	0838 0844	0855	N08	E48	.738	16239	26.9	51	-N							K	
PURP	23	0804	0838	0855	N08	E48	.738	16239	26.9	51	-N		C					K	
PURP	23	0804	0844	0855	N08	E48	.738	16239	26.9	51	-N		C					K	
GRP77051	23	0845+2	0848+3	0858	S23	W51	.849	16224	19.5	13	-N							E	
MONT	23	0845	0848	0857	S23	W52	.857	16224	19.5	12	-N		C	0848	70			E	
KANZ	23	0847	0851	0859	S24	W51	.853	16224	19.5	12	-N	2							
GRP77052	23	0907+3	0910 0925	0946	S14	E06	.371	16240	23.8	39	-F								
HTPR	23	0907	0925	0946	S15	E06	.387	16240	23.8	39	-F		C	0925	20	.2		E	
ZURI	23	0910	0910	09110	S13	E07	.361	16240	23.9	10	-F		P	0910	60	.7			
KHAR	23	0910E		09280	S14	E05	.367	16240	23.8	180	-N		P	0917	110	1.2		60	
53 KHAR	23	0948E		09570	S32	E34	.774	16241	26.0	90	-F		P	0948				0	ZX
GRP77054	23	1213+1	1213+4	1233	N06	E35	.570	16239	26.1	20	-N								
RAMY	23	1213	1213	1241	N07	E36	.584	16239	26.2	28	-B	3	C		78			F	
LVOV	23	1214	1217	1225	N06	E35	.570	16239	26.1	11	1F		C	1217	200	2.5		0	
GRP77055	23	1243+1	1250+9 1332	1451	N07	E29	.481	16239	25.7	128	1N				220	2.6		EJUZ	
LVOV	23	1243	1251	1448	N06	E30	.497	16239	25.8	125	2N		C	1307	450	5.3		EJ	
RAMY	23	1244	1250	1449	N07	E29	.481	16239	25.7	125	1B	3	C		223			Z U	
HUAN	23	1244	1259	1454	N05	E30	.498	16239	25.8	130	1N	2	C	1259	220	2.6		EU	
KEND	23	1329E		14190	N08	E29	.481	16239	25.7	500	1N		P	1329	180	2.2		B	
HOLL	23	1331E	1332	1451	N08	E34	.555	16239	26.1	800	-B	3	C		134				
KANZ	23	1346E		14140	N07	E28	.466	16239	25.7	280	-N	1							
BIGB	23	1433E	1433U	14580	N09	E28	.466	16239	25.7	250	-F	2	P	1433	40	.5			
56 HUAN	23	1458	1459	1500	S32	E36	.787	16241	26.3	2	-F	1	C	1459	20	.3		0	ZX
GRP77057	23	1507+1	1509+5	1523	N06	F35	.570	16239	26.3	16	-N				40	.5		F	
HUAN	23	1507		1524	N06	E35	.570	16239	26.3	17	-F	1	C	1512	30	.3			
HOLL	23	1508	1509	1523	N05	E33	.543	16239	26.1	15	-N	3	C		51			F	
KANZ	23	1508E	1514	1521	N06	E37	.599	16239	26.4	130	-N	1						F	
58 BIGB	23	1756	1757	1835	S13	W30	.586	16231	21.5	39	-F	3	C	1757	30	.4			ZX
GRP77059	23	1801+9	1804 1812	1834	N25	W55	.824	16229	19.6	33	-F								
BIGB	23	1801	1804	1837	N25	W56	.832	16229	19.6	36	-F	3	C	1804	60	1.1			
HOLL	23	1811	1812	1831	N26	W54	.816	16229	19.7	20	-N	3	C		36				
60 BIGB	23	1833	1834	1838	S36	W43	.857	16224	20.5	5	-F	3	C	1834	30	.4			ZX
GRP77061	23	1838+1	1839+1	1845	S35	W43	.851	16224	20.6	7	-B				20	.4		0	
HUAN	23	1838	1840	1844	S35	W43	.851	16224	20.6	6	-N	2	C	1840	25	.4		0	
BIGB	23	1838	1839	18400	S35	W41	.839	16224	20.7	20	-B	3	P	1839	20	.3		0	
HOLL	23	1839	1839	1845	S25	W50	.850	16224	20.0	6	-B	3	C		21				
GRP77062	23	1935+0	1936+0	1940	N05	E32	.528	16239	26.2	5	-F				35	.4			
HUAN	23	1935	1936	1938	N05	E32	.528	16239	26.2	3	-F	1	C	1936	30	.3			
BIGB	23	1935	1936	1942	N05	E32	.528	16239	26.2	7	-N	3	C	1936	40	.5			
63 CULG	23	2212	2222	2239	N24	W61	.872	16229	19.4	27	-N		C	2222	30	.6			ZX

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	GCMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	NER. DIST.											
GRP77064	23	2235+0	2237+0	2244	S31	E30	.738	16241	26.2	9	-N						
VORO	23	2235	2237	2244	S30	E31	.737	16241	26.3	9	-N	C	2237	108	1.5	E	
CULG	23	2235	2237	2241D	S32	E30	.747	16241	26.2	6D	-N	P	2237	48	.6	F	
	23	2250	2251	NO FLARE PATROL													
65 HOLL	23	2300	2400	0034	N05	E54	.806		28.0	94	-B	3 C		65		DE ZX	
GRP77066	23	2301+9	2325	0029	N06	E32	.527	16239	26.4	88	1N			210	2.5		
		2335															
CULG	23	2301	2335	0029	N06	E32	.527	16239	26.4	88	1B	C	2335	260	3.0		
BIGB	23	2316	2325D	2359D	N07	E32	.526	16239	26.4	43D	-N	3 P	2325	150	1.8		
HOLL	23	2326E	2326U	2353D	N05	E28	.466	16239	26.1	27D	-B	3 C				F	
VORO	23	2334E		2334D	N07	E32	.526	16239	26.4		-N	P	2334	170	2.0	E	
67 HOLL	23	2333	2334	0009	S12	W33	.614	16231	21.5	36	-B	3 C		92		ZX	
GRP77068	24	0106+9	0119	0140	N17	E37	.608	16238	26.8	34	-N						
			0129														
CULG	24	0106	0119	0141	N18	E37	.611	16238	26.8	35	-N	C	0119	50	.6	T	
PALE	24	0122	0129	0138	N17	E37	.608	16238	26.8	16	-N	3 C		24		DE	
	24	0142	0145	0157	S17	W31	.628	16231	21.7	15	-F	C	0145	38	.4	ZX	
70 CULG	24	0159	0209	0226	S16	W01	.391	16240	24.0	27	-F	C	0209	60	.6	LJ ZX	
71 PALE	24	0209	0215	0404	N18	E36	.598	16238	26.8	115	-N	3 C		58		ZX	
72 PURP	24	0306	0307	0332	N05	E25	.422	16239	26.0	26	-N	P				ZX	
73 CULG	24	0317	0320	0331	S33	E27	.738	16241	26.2	14	-N	C	0320	50	.8	ZX	
	24	0335	0340	NO FLARE PATROL													
74 CULG	24	0425	0430	0504	N06	E7D	.937	16246	29.4	39	-N	C	0430	50		ZX	
75 CULG	24	0426	0434	0509	S18	W33	.657	16231	21.7	43	-N	C	0434	30	.4	ZX	
76 CULG	24	0432	0434	0456	N18	E34	.572	16238	26.7	24	-N	C	0434	40	.5	T ZX	
77 CULG	24	0457	0458	0505	S33	E27	.738	16241	26.2	8	-F	C	0458	30	.4	ZX	
78 CULG	24	0521	0523	0527	S25	W53	.872	16224	20.2	6	-F	C	0523	30	.6	ZX	
GRP77079	24	0547	0615+1	0627	S22	E56	.883	16245	28.4	40	-N					G	
CULG	24	0547	0616	0633	S23	E5	.886	16245	28.4	46	-F	C	0616	60	.8	G	
YUNN	24	0615E	0615	0620	S22	E56	.883	16245	28.5	5D	1N	C		161			
GRP77080	24	0631+4	0633+2	0638	S33	E26	.732	16241	26.2	7	-N			50	.7	E	
HTPR	24	0631	0633	0636	S34	E28	.753	16241	26.4	5	-N	C	0633	40	.5	E	
CULG	24	0632	0633	0638	S33	E26	.732	16241	26.2	6	-N	C	0633	40	.6		
CATA	24	0635	0635	0640	S33	E26	.732	16241	26.2	5	-B	2 C	0635	84	1.2		
81 CULG	24	0650	0652	0706	S12	W06	.341	16240	23.8	16	-F	C	0652	20	.2	ZX	
GRP77082	24	0651+9	0659+3	0718	N24	W66	.908	16229	19.3	27	-N			30		D	
CULG	24	0651	0702	0711D	N24	W65	.902	16229	19.4	20D	-B	C	0702	30	.7		
ABST	24	0656	0659	0715	N24	W66	.908	16229	19.3	19	1N	C	0659	87		D	
HTPR	24	0658	0700	0715	N24	W65	.902	16229	19.4	17	-N	C	0700	20	.4		
BUCA	24	0700		0720	N25	W68	.921	16229	19.2	20	-B	C	0702	32	.8	D	
CATA	24	0700	0700	0720	N24	W66	.908	16229	19.3	20	-N	2 C	0700	28			
83 KHAR	24	0852E		0905D	N27	E12	.391	16237	25.3	13D	-F	P	0852	90	1.0	E ZX	
GRP77084	24	0945+2	0948+1	1030	S29	E26	.693	16241	26.4	45	-F			30	.4	D	
KHAR	24	0945E	0948	1000D	S29	E26	.693	16241	26.4	15D	-F	P	0948	40	.6	D	
HTPR	24	0947	0949	1030	S29	E27	.700	16241	26.4	43	-F	C	0949	20	.2		
85 KHAR	24	1050E		1115D	S29	E26	.693	16241	26.4	25D	-F	P	1054	50	.7	BL ZX	
86 KHAR	24	1152E	1153	1200D	S30	E21	.671	16241	26.1	8D	-F	P	1156	50	.7	D ZX	
GRP77087	24	1156+6	1203+2	1245	N05	E25	.422	16239	26.4	49	1N			260	2.9	EJU	
			1212														
HTPR	24	1156	1203	1300	N05	E26	.437	16239	26.4	64	1N	C	1203	280	3.1	EU	
KHAR	24	1157E	1205	1230D	N05	E25	.422	16239	26.4	33D	1N	P	1205	250	2.8	ET	
RAMY	24	1159	1212	1314	N06	E20	.340	16239	26.0	75	1B	3 C		330		F	
LVOV	24	1202	1203	1217	N06	E28	.467	16239	26.6	15	1N	C	1203	250	2.9	EJ	

76
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.		
					LAT.	MER. DIST.												
88 HUAN	24	1316	1321	1327	N22	W68	.921	16229	19.5	11	-N	1	C	1321	20		0	ZX
GRP77089	24	1459+1	1501+1	1512	S14	W10	.394	16240	23.9	13	-N				50	.5		E
HTPR	24	1459	1502	1512	S15	W10	.409	16240	23.9	13	-F		C	1502	40	.4		E
RAMY	24	1459	1501	1514	S12	W11	.373	16240	23.8	15	-B	3	C		67			F
HUAN	24	1500		1507	S14	W08	.382	16240	24.0	7	-F	1	C					E
90 RAMY	24	1532	1534	1540	S13	W42	.723	16231	21.5	8	-N	3	C		29			ZX
91 RAMY	24	1544	1545	1556	N06	E19	.324	16239	26.1	12	-N	3	C		34			ZX
GRP77092	24	1632		16540	N04	F64	.897	16246	29.5	22	-B				80	1.8		EG
HTPR	24	1632		16540	N05	F64	.896	16246	29.5	220	1N		C	1638	100	2.3		G
MCMA	24	1636E		16410	N04	F65	.904	16246	29.6	50	-B		C	1641	70	1.7		E
GRP77093	24	1814+1	1815+1	1828	N06	E18	.308	16239	26.1	14	-N				140	1.5		EHU
PALE	24	1814	1815	1832	N06	F17	.291	16239	26.0	18	1B	3	C		210			DE
HOLL	24	1815	1816	1822	N06	E16	.274	16239	26.0	7	-B	3	C		97			UOE
HUAN	24	1815	1816	1820	N07	F17	.290	16239	26.0	5	-N	1	C	1816	80			
MCMA	24	1816E		18500	N06	E20	.340	16239	26.3	340	-N		P	1816	160	1.7		EH
HUAN	24	1817	1817	1823	N08	E25	.419	16239	26.6	6	-F	1	C	1817	20	.2		D
PALE	24	1845	1846	1850	N06	F17	.291	16239	26.1	5	-N	3	C		25			
94 PALE	24	1845	1846	1850	N06	E17	.291	16239	26.1	5	-N	3	C		25			ZX
GRP77095	24	1920+4	1924+1	2009	N17	F28	.486	16238	26.9	49	-N				40	.5		EL
		1953+4																
HOLL	24	1920	1924	20210	N16	F28	.482	16238	26.9	610	-B	3	C		41			
HUAN	24	1924		1952	N18	E28	.491	16238	26.9	28	-F	1	C	1927	30	.3		E
PALE	24	1924	1925	1935	N18	E29	.505	16238	27.0	11	-B	3	C		31			
MCMA	24	1931E		2015	N18	E28	.491	16238	26.9	440	-N		C	1931	50	.6		EL
PALE	24	1939	1939	2002	N18	E29	.505	16238	27.0	23	-N	3	C		25			
PALE	24	1939	1953	2002	N18	F29	.505	16238	27.0	23	-F	3	C		37			
SIGB	24	1949	1957	20090	N16	E28	.482	16238	26.9	200	-N	1	P	1957	30	.4		
GRP77096	24	1924+1	1925	1932	S31	F18	.666	16241	26.2	8	-F							
HUAN	24	1924		1934	S32	E18	.677	16241	26.2	10	-F	1	C					
PALE	24	1925	1925	1930	S31	F18	.666	16241	26.2	5	-N	3	C		29			
GRP77097	24	1940+1	1944+0	20300	N22	E40	.661		27.8	50	-F				80	1.1		EGL
MCMA	24	1940E	1944	20150	N22	E40	.661		27.8	350	-F		C	1944	60	.8		EL
BIGB	24	1941	1944	20300	N22	E40	.661		27.8	490	-F	1	P	1944	100	1.3		G
98 MCMA	24	2016		20590	N06	E20	.340	16239	26.3	430	-F		C	2024	75	.9		E
GRP77099	24	2116+2	2120+1	2145	N06	E16	.274	16239	26.1	29	-B				50	.5		U
HOLL	24	2116	2120	2142	N05	F16	.276	16239	26.1	26	-B	3	C		63			U
PALE	24	2117	2121	21410	N06	E15	.258	16239	26.0	240	-B	3	C		45			FDE
BIGB	24	2118	2120	2148	N07	E16	.274	16239	26.1	30	-N		C	2120	40	.4		
GRP77100	24	2130+5	2135+4	2144	N17	E28	.486	16238	27.0	14	-F				110	1.3		
CULG	24	2130	2135	2144	N18	E28	.491	16238	27.0	14	-F		C	2135	150	1.7		
PALE	24	2135	2139	21430	N17	E28	.486	16238	27.0	80	-N	3	C		80			DE
GRP77101	24	2148+0	2153+2	2243	N17	F27	.472	16238	26.9	55	1B							U
HOLL	24	2129	2155	2315	N17	E26	.458	16238	26.8	106	1B	3	C		436			U
BIGB	24	2148	2153	22260	N17	E28	.486	16238	27.0	380	-B	1	P	2153	80	.9		F
CULG	24	2148	2153	2304	N18	E28	.491	16238	27.0	76	1B		C	2153	240	2.8		
VORO	24	2151E		2220	N17	E28	.486	16238	27.0	290	1F		C	2152	278	3.2		E
PALE	24	2152E	2155U	2240	N18	F25	.458	16238	26.8	480	1B	3	C		282			FDE
VORO	24	2152	2153	2203	N10	E27	.452	16238	26.9	11	-N		C	2153	63	.7		D
102 HOLL	24	2218	2218	2226	S26	W59	.914	16224	20.5	8	-N	3	C		16			ZX
103 CULG	24	2245	2248	2305	N06	E13	.224	16239	25.9	20	-F		C	2248	50	.5		ZX
104 CULG	24	2340	2345	2352	S23	W75	.982	16224	19.4	12	-F		C	2345	10			T
GRP77105	25	0017+2	0021+6	0101	N07	E16	.274	16239	26.2	44	-N							FK
VORO	25	0017	0021	0112	N08	E17	.290	16239	26.3	55	1N		C	0021	197	2.0		EK
CULG	25	0018	0022	0146	N07	E15	.257	16239	26.1	88	-B		C	0022	130	1.4		FK
YUNN	25	0018	0021	0052	N07	E15	.257	16239	26.1	34	1N		C		289			
HOLL	25	0019	0023	00360	N05	E14	.243	16239	26.1	170	-B	2	C		181			F
PALE	25	0025E	0027U	0051	N07	E17	.290	16239	26.3	260	-B	3	C		113			FDE
BIGB	25	0026	0027	0107	N07	E15	.257	16239	26.1	41	-N	1	C	0027	50	.5		
MANI	25	0028E	0028U	0050	N05	E16	.276	16239	26.2	220	-N	3	V		80			F

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McHATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Milli of Disk	CORR. AREA Sq Deg	
					LAT.	MER. DIST.											
GRP77106	25	0029+1	0030+3	0136D	N17	F25	.444	16238	26.9	67	-N			60	.7	F	
HOLL	25	0029	0030	0036D	N17	E25	.444	16238	26.9	70	-N	2	C	40			
CULG	25	0030	0033	0136U	N17	F26	.458	16238	27.0	660	-N		C	0033	.9	FT	
107 CULG	25	0124	0126	0135	S23	E42	.776	16245	28.2	11	-N		C	0126	.5	HG ZX	
108 CULG	25	0138	0144	0152	S22	H75	.981	16224	19.4	14	-N		C	0144		T ZX	
109 CULG	25	0155	0157	0202	S34	E10	.671	16241	25.8	7	-B		C	0157	.6	ZX	
110 CULG	25	0302	0310	0351	N05	F16	.276	16239	26.3	49	-N		C	0310	.8	ZX	
111 CULG	25	0434	0435	0439	S33	F12	.664	16241	26.1	5	-N		C	0435	.3	ZX	
GRP77112	25	0519+2	0523+2	0541	N18	E23	.422	16238	26.9	22	-B			70	.8	DH	
CULG	25	0519	0525	0543	N18	E23	.422	16238	26.9	24	-N		C	0525	.7	H	
PURP	25	0521	0523	0541	N18	E22	.408	16238	26.9	20	19		C				
TACH	25	0521	0524	0535	N17	E25	.444	16238	27.1	14	-B		C	0524	1.0	DH	
113 ABST	25	0522	0525	0535	N29	H60	.870	16244	20.7	13	-N		C	0525	1.7	EJ ZX	
114 CULG	25	0541	0545	0558	N27	H61	.875	16244	20.7	17	-N		C	0545	.4	ZX	
115 ABST	25	0542	0543	0600	N16	E26	.454	16238	27.2	18	-N		C	0543	1.0	EJV ZX	
116 CULG	25	0559	0609	0647	S14	H47	.779	16231	21.7	48	-F		C	0609	.4	ZX	
117 CULG	25	0604	0609	0616	S22	H76	.924	16224	19.6	12	-F		C	0609		T ZX	
118 ABST	25	0722	0727	0730	S22	E43	.779	16245	28.5	8	-N		C	0727	1.4	D ZX	
GRP77119	25	0745+2	0749	0828	N17	E22	.402	16238	27.0	43	1N			200	2.2	EK	
YUNN	25	0745	0800	0830	N17	E24	.430	16238	27.1	45	1F		C	273			
HTPR	25	0745	0803	0818	N17	E21	.388	16238	26.9	33	-F		C				
HTPR	25	0745	0749	0818	N17	E21	.388	16238	26.9	33	-F		C	0749	.2	E	
ASST	25	0746	0803	0804D	N16	E24	.425	16238	27.1	180	-N		P	0803	1.9	EK	
PURP	25	0747	0805	0820	N18	E21	.394	16238	26.9	33	19		C				
ISTA	25	0747	0835	0835	N17	E22	.402	16238	27.0	48	19		V			F	
CATA	25	0800	0805	0835	N17	E21	.388	16238	26.9	35	-B	2	C	0805	1.8		
120 ISTA	25	0802		0806	S34	F08	.666	16241	25.9	4	-N		V	0804		D ZX	
GRP77121	25	1028	1031	1042	N17	E19	.359	16238	26.9	14	-F						
HTPR	25	1028	1031	1042	N17	E19	.359	16238	26.9	14	-F		C	1031	.2		
HTPR	25	1028	1035	1042	N17	E19	.359	16238	26.9	14	-F		C				
122 HTPR	25	1215	1224	1250	N06	F54	.805	16246	29.6	35	-F		C	1224	.7	E ZX	
123 RAMY	25	1241	1248	1313	S15	H54	.847	16231	21.5	32	-N	3	C	31		ZX	
GRP77124	25	1348+6	1357+0	1432	N06	E07	.122	16239	26.1	44	-B			140	1.4	EK	
HTPR	25	1348	1403	1425	N05	E10	.176	16239	26.3	37	-N		C	1403	1.0	EK	
HUAN	25	1352	1357	1414	N07	E08	.138	16239	26.2	22	-N	2	C	1357	.3	E	
HOLL	25	1353	1405	1438	N05	E06	.110	16239	26.0	45	-B	3	C	160		F	
RAMY	25	1354	1357	1412D	N05	E06	.110	16239	26.0	180	-B	3	C	49			
MCMA	25	1401E		1445D	N07	E07	.121	16239	26.1	440	-B		C	1404	1.5	E	
GRP77125	25	1356+1	1357+3	1411	N17	E18	.345	16238	26.9	15	-N			90	1.0	E	
HTPR	25	1356	1357	1413	N17	E18	.345	16238	26.9	17	-N		C	1357	1.2	E	
HUAN	25	1356	1358	1407	N17	E18	.345	16238	26.9	11	-N	2	C	1358	.8	E	
RAMY	25	1357	1359	1410	N17	E17	.332	16238	26.9	13	-B	3	C	84			
HOLL	25	1357	1400	1412	N17	F17	.332	16238	26.9	15	-B	2	C	117		F	
MCMA	25	1401E		1411D	N17	E18	.345	16238	26.9	100	-N		C	1401	.5	E	
GRP77126	25	1403+5	1410+0	1438	S13	H69	.948	16243	20.4	35	-N			30		D	
HOLL	25	1403	1410	1445	S13	H68	.942	16243	20.5	42	-N	3	C	44			
RAMY	25	1405	1410	1412D	S13	H70	.953	16243	20.3	70	-F	3	C				
HUAN	25	1408		1430	S15	H68	.945	16243	20.5	22	-N	1	C	1415	.25	D	
MCMA	25	1409E		1420D	S13	H73	.967	16243	20.1	110	-N		C	1411	30	1.2 D	
127 HOLL	25	1507	1510	1514	N05	E06	.110	16239	26.1	7	-B	3	C	25		ZX	

78
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA		CORR AREA		
					LAT.	MER. DIST.											Mill of Disk	Sq Deg.
GRP77128	25	1511+0	1512 1522	1538	S15	W55	.855	1E231	21.5	27	-N			80	1.5	EG		
BIGB	25	1511E	1522	1540D	S15	W54	.847	1E231	21.6	29D	-N	1	P	1522	90	1.6	G	
HOLL	25	1511	1512	1519D	S14	W5E	.8E1	1E231	21.4	80	-B	3	C		23			
HUAN	25	1511		1536	S17	W55	.8E1	1E231	21.5	25	-N	1	C	1521	70	1.3	E	
GRP77129	25	1529+8	1534+3	1550	N25	W82	.984	1E229	19.5	21	-N				40		E	
HTPR	25	1529	1534	1550	N25	W78	.971	1E229	19.8	21	-F		C	1534	60		E	
HUAN	25	1534	1535	1550	N25	W85	.991	1E229	19.3	16	-N	2	C	1535	40			
HOLL	25	1537	1537	1552	N24	W82	.984	1E229	19.5	15	-N	3	C		32			
GRP77130	25	1601+5	1E22+1	1652	S32	E08	.640	1E241	26.3	51	-N				110	1.4	EU	
HTPR	25	1601		1637G	S32	E07	.637	1E241	26.2	36D	-N		C	1617	150	1.8	EF	
MCHA	25	1603		1624D	S33	E08	.E53	1E241	26.3	21D	-N		C	1618	100	1.4	E	
HUAN	25	1E05		1E09D	S32	E10	.645	1E241	26.4	4D	-N	1	P	1607	60	.8	E	
HOLL	25	1606	1E22	1652	S32	E0E	.635	1E241	26.1	46	-B	3	C		120		U	
BIGB	25	1620E	1E23U	1642D	S33	E09	.655	1E241	26.4	22D	-N	1	P	1623	90	.9		
131 HOLL	25	1612	1E12	1658	S24	W81	.996	1E224	19.6	46	-N	3	C		8		ZX	
GRP77132	25	1616+1	1E21+5	1707	S15	W56	.8E3	1E231	21.5	51	1N				210	4.0	G	
MCHA	25	1616		1624D	S16	W56	.8E6	1E231	21.5	80	1F		C	1623	100	2.1	E	
HOLL	25	1617	1621	1702	S14	W56	.8E1	1E231	21.5	45	1B	3	C		255		F	
BIGB	25	1625E	1E2E0	1712D	S15	W55	.855	1E231	21.6	47D	1N	1	P	162E	210	3.8	G	
133 HOLL	25	1620	1E22	1637	S13	W69	.948	1E243	20.5	17	-N	3	C		14		ZX	
	25	1650	1655	NO FLARE PATROL														
GRP77134	25	1702+1	1704+3	1736	N05	E07	.126	1E239	26.2	34	-N				35	.4	F	
HOLL	25	1702	1704	1736	N05	E05	.094	1E239	26.1	34	-B	3	C		49		F	
KANZ	25	1702	1707	1707D	N06	E07	.122	1E239	26.2	5D	-F	1						
HTPR	25	1703		1724D	N05	F10	.176	1E239	26.5	21D	-F		C	1704	20	.2		
135 HOLL	25	1708	170E	1753	S26	W6E	.9E4	1E224	20.5	45	-N	3	C		11		ZX	
136 HOLL	25	1716	171E	172E	S13	W70	.953	1E243	20.5	10	-N	3	C		32		ZX	
	25	1724	1725	NO FLARE PATROL														
137 HOLL	25	1800	1801	1808	S32	E0E	.634	1E241	26.1	8	-B	3	C		61		ZX	
138 BIGB	25	1924	1E2EU	1930	S13	W70	.953	1E243	20.6	6	-N	2	C	192E	20		ZX	
GRP77139	25	1943+4	1951 2E07	2133	N05	00	.03E	1E239	25.8	110	1B				270	2.7		
HOLL	25	1943	2007	2145	N05	W01	.039	1E239	25.7	122	1B	3	C		414		FDE	
BIGB	25	1946E	1E51E	2047	N05	E02	.050	1E239	26.0	61D	-B	2	P	1951	130	1.3		
PALE	25	1947	2E14U	2121D	N04	E00	.053	1E239	25.8	94D	1B	3	C		300		FDE	
HUAN	25	2004E		2146D	N05	W02	.050	1E239	25.7	102D	1N	2	P	201E	250	2.5	E	
140 BIGB	25	2209	2E11	2218	S14	W57	.8E9	1E231	21.6	9	-N	2	C	2211	60	1.1	ZX	
GRP77141	25	2220+1	2227+6	2251	S20	E30	.643	1E245	28.2	31	-B				50	.6		
HOLL	25	2220	2227	2248	S19	E30	.635	1E245	28.2	28	-B	3	C		119			
BIGB	25	2221	2228	2251	S20	E30	.E43	1E245	28.2	30	-B	2	C	2228	50	.6		
CULG	25	2232E	2233	2252	S21	E29	.E42	1E245	28.1	20D	-N		C	2233	30	.4		
GRP77142	25	2305+3	230E+2	2333	S12	W74	.970	1E243	20.4	28	-N				35		G	
CULG	25	2305	230E	2331	S12	W74	.970	1E243	20.4	2E	-N		C	2309	30			
BIGB	25	2308	2311	2334	S13	W75	.975	1E243	20.3	26	-N	2	C	2311	40		G	
143 CULG	25	2308	2310	2326	S14	W28	.571	1E240	23.9	18	-F		C	2310	30	.4	F	
144 CULG	25	2313	2313	2320	N08	W01	.024	1E239	25.9	7	-F		C	2313	20	.2	ZX	
145 CULG	25	2316	2320	2333	S32	E03	.631	1E241	26.2	17	-F		C	2320	10	.1	ZX	
GRP77146	26	0002+5	0E10+0	0034	N18	E12	.27E	1E238	26.9	32	-B				80	.8		
CULG	26	0002	0E10	0042	N18	E12	.27E	1E238	26.9	40	-B		C	0010	90	.9		
BIGB	26	0007	0E10	002E	N17	E12	.2E5	1E238	26.9	19	-B	3	C	0010	60	.6		
HANI	26	0010E	0E10U	0016D	N18	E14	.300	1E238	27.1	6D	-B	3	C		100			
147 CULG	26	0025	0027	0034	S14	W60	.8E2	1E231	21.5	9	-F		C	0027	30	.6	ZX	
148 CULG	26	0030	003E	0051	S25	W55	.8E6	1E231	21.9	21	-F		C	0035	40	.8	I	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	HER. DIST.											
GRP77149	26	0050+3	0053 0108	0119	N04	E06	.117	16239	26.5	29	-F						
CULG	26	0050	0053	0114	N05	E06	.110	16239	26.5	24	-N	C	0053	60	.6		
PURP	26	0053	0108	0124	N04	E06	.117	16239	26.5	31	-F	C					
GRP77150	26	0130+8	0141 0151+7	0251	S14	W60	.892	16231	21.6	81	2B			260	5.5	FGKU	
CULG	26	0112	0151U	0420U	S15	W60	.894	16231	21.6	1880	1B	C	0151	150	3.2	U	
YUNP	26	0130	0158	0251	S13	W62	.905	16231	21.4	81	1B	C		274			
PURP	26	0136	0152	0235	S14	W66	.932	16231	21.1	59	2B	C		340		K	
BIGB	26	0138	0141	0144D	S15	W58	.879	16231	21.7	60	1B	3 P	0141	120	2.3	G	
MANI	26	0140E	0157U	02010	S13	W57	.867	16231	21.8	210	2B	3 C		250		F	
GRP77151	26	0335+9	0338	0411	N05	E01	.040	16239	26.2	36	-N						
CULG	26	0335	0338	0415	N05	E03	.063	16239	26.4	40	-N	C	0338	90	.9	F	
TACH	26	0349		0407	N06	E00	.018	16239	26.2	18	1F	V	0351	282	2.8	BE	
152 CULG	26	0443	0448	0504	N19	E86	.994	16252	1.6	21	-N	C	0448	40		ZX	
GRP77153	26	0504+9	0511+6	0539	N17	E07	.209	16238	26.7	35	-N					DJ	
ABST	26	0504	0511	0538	N17	E06	.200	16238	26.7	34	-N	C	0511	87	.9	DJ	
PURP	26	0516	0517	0540	N18	F09	.242	16238	26.9	24	1N	P					
154 CULG	26	0511	0513	0519	S13	W63	.911	16231	21.5	8	-F	C	0513	50	1.2	ZX	
155 CULG	26	0535	0542	0552	N05	W01	.040	16239	26.2	17	-F	C	0542	30	.3	ZX	
GRP77156	26	0648+7	0650+5	0715	N04	E04	.088	16239	26.6	27	1N					IJ	
ABST	26	0648	0650	0715	N15	E05	.162	16239	26.7	27	-N	C	0650	174	1.8	EJ	
CULG	26	0649	0652	0706D	N05	E04	.078	16239	26.6	170	-N	C	0652	120	1.2		
ISTA	26	0651		0715	N04	E04	.088	16239	26.6	24	2N	V	0656			IF	
BUCA	26	0652E		0659D	N04	E04	.088	16239	26.6	70	1F	C	0653	214	2.2		
CATA	26	0655	0655	0720	N04	W03	.075	16239	26.1	25	1N	2 C	0655	196	2.0		
157 ISTA	26	0704		0709	S22	E26	.625	16245	28.2	5	-F	V	0705			D ZX	
158 ISTA	26	0755		0804	S15	W90	1.001		19.6	9	-N	V				AD ZX	
159 ISTA	26	0802		0815	N06	W07	.122	16239	25.8	13	?N	V	0804			IF ZX	
		IMP.1	NO 1	YUNN													
160 TELV	26	0837	0845	0848	S32	E01	.630	16241	26.4	11	-N	3 C		27	.3	D ZX	
161 TELV	26	0945		0948	S32	E00	.630	16241	26.4	3	-N	3 C		27	.3	D ZX	
162 TELV	26	0951	0952	1000	S32	W01	.630	16241	26.3	9	-N	3 C		41	.4	ZX	
163 TELV	26	1105	1111	1119D	S31	E01	.617	16241	26.5	140	-N	3 C		49	.5	L ZX	
GRP77164	26	1125+3	1128+1	1149	N04	W02	.064	16239	26.3	24	-N			60	.6	F	
RAMY	26	1125	1128	1149	N05	W0E	.110	16239	26.0	24	-N	3 C		36			
TELV	26	1128	1129	1138D	N03	E02	.079	16239	26.6	100	-N	3 C		82	.8	F	
GRP77165	26	1222E	1258	1322	N04	W09	.164	16239	25.8	60	-N					U	
HUAN	26	1222E		1321	N04	W09	.164	16239	25.8	590	-N	2 P	123E	100	1.0	E	
HOLL	26	1257E	1258U	1323	N05	W09	.160	16239	25.9	260	-B	2 C		120		U F	
166 RAMY	26	1321	1321	1325	S14	W64	.920	16231	21.8	4	-N	3 C		32		ZX	
GRP77167	26	1350+3	1353	1407	N04	W09	.164	16239	25.9	17	-N			40	.4		
HUAN	26	1350		1406	N04	W09	.164	16239	25.9	16	-F	1 C	1353	45	.5	E	
HOLL	26	1353	1353	1407	N05	W09	.160	16239	25.9	14	-B	3 C		30		F	
GRP77168	26	1403+0	1407+2	1427	S22	E26	.625	16245	28.5	24	-N			50	.6	E	
HUAN	26	1403	1407	1428	S22	E27	.633	16245	28.6	25	-N	2 C	1407	45	.5	E	
HOLL	26	1403	1409	1426	S21	E22	.579	16245	28.2	23	-N	3 C		61			
HCHA	26	1403E		1425D	S24	E2E	.644	16245	28.5	220	-N	P	1407	30	.4	E	
GRP77169	26	1423+9	1446 1532	1552	N05	W08	.143	16239	26.0	89	-B					F	
RAMY	26	1423	1503	1555	N05	W08	.143	16239	26.0	92	-B	3 C		47		F	
HOLL	26	1445	1446	1453	N05	W07	.126	16239	26.1	8	-B	3 C		28			
HOLL	26	1512	1532	1548	N05	W08	.143	16239	26.0	36	-B	3 C		41		F	
170 BIGB	26	1447	1450	1454	N17	E90	.999	16252	2.4	7	-N	3 C	1450	20		ZX	

80
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MEMPHIS FLARE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg		
					LAT.	MER. DIST													
GRP77171	26	1615+2	1701+4	2203	N05	W11	.193	16239	25.9	348	2B		650	6.6	KUZ				
			1802																
			1705U	1750D	N05	W09	.160	16239	26.0	950	3B	3	C	763		Z U			
			1702	2203	N05	W09	.160	16239	26.0	346	2B	3	C	991		Z U			
			1802	2203	N05	W09	.160	16239	26.0	346	1B	3	C	475		Z U			
			1625E	1639D	N04	W11	.197	16239	25.9	140	-N		P	1630	80	.9	E		
			1639	2146D	N05	W12	.210	16239	25.8	307D	2B	3	P	1701	550	5.8			
			1642E	1704D	N06	W13	.224	16239	25.7	220	1B		C	1659	800	4.3	FK		
			1646E	2101D	N05	W13	.226	16239	25.7	2550	2B	2	P	1658	530	5.6	E		
			1707E	2002D	N05	W10	.176	16239	26.0	1750	2B	3	C		763		U F		
172	RAMY	26	1639	1640	1645	N20	E75	.959	16252	1.3	6	-F	3	C				ZX	
173	BIGB	26	2049	2051	2107	N26	E05	.334		27.2	18	-N	3	C	2051	40	.4	G	ZX
		26	2146	2148	NO FLARE PATROL														
GRP77174	27	0049+1	0049+2	0055	N06	W12	.207	16239	26.1	6	-N			50	.5				
		0049E	0049U	0055	N06	W12	.207	16239	26.1	60	-B	3	C	45		DE			
		0050E	0050U	0055	N05	W10	.176	16239	26.3	50	-N	3	V	40		F			
		0050	0051	0100	N06	W13	.224	16239	26.1	10	-N		C	0051	152	1.6	E.		
175	PALE	27	0055E	0055U	0104	N18	E75	.959	16252	1.7	90	-N	3	C	22		DE	ZX	
176	MITK	27	0220	0222	0235	N30	E42	.714	16247	30.2	15	1N		C	0222	150	2.2	G	ZX
177	MITK	27	0257	0303	0331	N28	W22	.493	16237	25.5	34	-F		C	0303			EG	ZX
178	MITK	27	0306	0308	0313	N08	W07	.122	16239	26.6	7	-N		C	0308			D	ZX
179	TACH	27	0506	0510	0535	N16	E06	.185	16238	27.7	29	-B		C	0510	71	.7	DJ	ZX
180	ISTA	27	0719		0725	N10	W10	.179	16239	26.6	6	-N		V				C	ZX
181	ISTA	27	0812		0830	N05	W20	.342	16239	25.8	18	-N		V				E	ZX
182	TELV	27	0821	0822	0829	S14	E22	.505		29.0	8	-N	3	C		33	.4	D	ZX
183	TELV	27	0955	0957	1015	S36	E07	.689		27.9	20	-F	3	C	0957	60	.6		ZX
GRP77184	27	0957+2	1000+2	1014	S29	E42	.811	16251	30.6	17	-F			50	.8	E			
		0957E	1000	1018D	S29	E43	.818	16251	30.6	210	-F		P	1000	45	.8	E		
		0959	1002	1009	S29	E41	.804	16251	30.5	10	-F		C	1002	50		E		
185	KHAR	27	1006E	1008	1018D	N21	E73	.949	16252	1.9	120	-F		P				DT	ZX
186	KHAR	27	1042E		1052D	N18	W07	.223	16238	26.9	100	-F	*	P	1045	50	.5	D	ZX
187	KHAR	27	1042E		1058D	N14	E70	.933	16252	1.7	160	-F		P				ET	ZX
GRP77188	27	1045E	1058	1105	N04	W17	.296	16239	26.2	50	-F							CE	
		1045E	1058	1132D	N03	W12	.219	16239	26.5	470	-F		P	1058	30	.3	DT		
		1052E	1108D	1108D	N06	W18	.308	16239	26.1	160	-F		P	1058	70	.7	ET		
		1058E	1105	1118D	N04	W20	.344	16239	26.0	200	-F		P	1105	50	.6	DT		
		1105E	1118D	1118D	N06	W13	.224	16239	26.5	130	-F		P	1105	30	.3	DT		
		112E	1135D	1135D	N03	W22	.379	16239	25.8	130	-F		P	1122	30	.4	CDT		
GRP77189	27	1223+7	1230+6	1250	S23	E09	.520	16245	28.2	27	-N			60	.7	F			
		1223	1230	1250	S26	E07	.556	16245	28.0	27	-N	3	C		74	.8	F		
		1228	1236	1250D	S23	E14	.545	16245	28.6	220	-N		P	1236	70	.9			
		1230	1232	1240	S20	E09	.477	16245	28.2	10	-N	3	C		33				
		1231	1233	1245	S25	E08	.545	16245	28.1	14	-N	3	C		24	.3	D		
190	RAMY	27	1343	1350	1359	N18	E65	.899	16252	1.4	16	-N	3	C		14			ZX
GRP77191	27	1455E		1556	N03	W14	.251	16239	26.6	61	-F							D	
		1455E		1556	N03	W14	.251	16239	26.6	610	-F	1	P	1502	20	.2	C		
		1458E		1513D	N04	W15	.263	16239	26.5	150	-F	2							
GRP77192	27	1541+7	1550	1615	S28	E44	.820	16251	31.0	34	-F							E	
		1541		1620	S28	E45	.827	16251	31.0	39	-F	1	C					E	
		1548	1550	1609	S29	E44	.825	16251	31.0	21	-N	2	C	1550	20	.3			

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPROVANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP77193	27	1543>9	1605+4	1627	N04	W24	.408	16239	25.9	44	-B		30	.3			
RAMY	27	1543	1608	1705	N04	W24	.408	16239	25.9	82	-B	* C	48				
BIGB	27	1602	1605	1627	N04	W24	.088	16239	25.9	25	-N	* C	1605	20	.2		
HOLL	27	1608	1609	1621	N05	W22	.374	16239	26.0	13	-B	* C		25			
194	BIGB	27	1654	1655	1710	N03	W15	.267	16239	26.6	16	-B	* C	1655	10	.1	D ZX
195	BIGB	27	1717	1719	1734	N03	W15	.267	16239	26.6	17	-N	2 C	1719	10	.1	ZX
196	BIGB	27	1809	1810	1813	N07	W18	.307	16239	26.4	4	-N	2 C	1810	20	.2	ZX
GRP77197	27	1829+9	1845+7	1927	N05	W23	.390	16239	26.0	58	-B		70	.8	F		
PALE	27	1829E	1845U	1930D	N05	W23	.390	16239	26.0	61D	-N	2 C	50		F		
HUAN	27	1834	1851	1911	N04	W24	.408	16239	26.0	37	-N	1 C	1852	70	.7	E	
RAMY	27	1835	1851	1939	N06	W22	.373	16239	26.1	64	-3	3 C	119		F		
HOLL	27	1838	1850	1914	N04	W23	.392	16239	26.1	36	-B	3 C	90		F		
BIGB	27	1849	1852	1936	N05	W23	.390	16239	26.1	47	-B	2 C	1852	40	.4		
GRP77198	27	1920+0	1922	1942	N04	W16	.279	16239	26.6	22	-F				E		
BIGB	27	1920	1922	1949	N05	W17	.293	16239	26.5	29	-N	2 C	1922	30	.3		
HUAN	27	1920		1935	N04	W16	.279	16239	26.6	15	-F	1 C			E		
GRP77199	27	2011+1	2012+0	2030	N04	W17	.296	16239	26.6	19	-N		35	.4			
BIGB	27	2011	2012	2037	N05	W17	.293	16239	26.6	26	-N	2 C	2012	40	.4		
RAMY	27	2012	2012	2023	N04	W17	.296	16239	26.6	11	-B	3 C		25			
200	HOLL	27	2048	2051	2058	S32	W22	.699	16241	26.2	10	-N	3 C	23		F ZX	
GRP77201	27	2137+1	2141+0	2315	N18	E62	.877	16252	2.6	98	1B		170	3.7	Z		
			2148														
RAMY	27	2137	2141	2149D	N18	E62	.877	16252	1.6	12D	1B 3 C		160		FDE		
HOLL	27	2137	2141	2315	N18	E69	.926	16252	2.1	98	1B 3 C		189		ZDE		
BIGB	27	2138	2148	2149D	N16	E60	.862	16252	1.4	110	1B 2 P	2148	120	2.5			
202	HOLL	28	0028	0028	0031	N17	E63	.884	16252	1.7	3	-N	3 C	17		ZX	
203	BIGB	28	0035	0040	0100	N05	W19	.326	16239	26.6	25	-N	2 C	0040	40	.4	ZX
204	PURP	28	0228E	0228	0229	N23	F64	.894	16252	1.9	10	-N	P			ZX	
205	PURP	28	0242	0308	0315	N04	W23	.392	16239	26.4	33	-N	C			ZX	
206	PALE	28	0335E	0345U	0346	S27	E32	.720	16251	30.5	110	-N	3 C	29		DE ZX	
207	PALE	28	0336E	0337U	0345	N17	E61	.868	16252	1.7	9D	-N	3 C	28		DE ZX	
208	PURP	28	0439	0440	0447	N04	W24	.408	16239	26.4	8	-N	C			ZX	
GRP77209	28	0526+4	0533+2	0544	N07	W33	.541	16239	25.8	18	-N		90	1.1	J		
CULG	28	0526	0534	0545	N08	W33	.540	16239	25.8	19	-N	C	0534	90	1.0		
HTPR	28	0530E	0542	0542	N07	W33	.541	16239	25.8	12D	-F	C	0535	70	.8	E	
YUNN	28	0530	0535	0545	N08	W32	.526	16239	25.8	15	1N	C		209			
ABST	28	0530	0533	0540	N06	W34	.556	16239	25.7	10	-N	C	0533	87	1.0	DJ	
GRP77210	28	0610+7	0618+1	0715	N04	W22	.376	16239	26.6	65	-N		90	1.0	JK		
			0630+2														
ABST	28	0610	0618	0650	N03	W21	.363	16239	26.7	40	-N	C	0618	87	.9	JJK	
CULG	28	0610U	0619	0705U	N04	W23	.392	16239	26.5	55D	-F	C	0619	80	.9		
BUCA	28	0615	0705	0705	N05	W22	.374	16239	26.6	50	1N	C	0621	214	2.4		
HTPR	28	0616	0619	0657	N03	W23	.395	16239	26.5	41	-F	C	0619	80	.9	E	
ATHN	28	0617	0619	0644	N05	W21	.358	16239	26.7	27	-N	1	0619	97	1.1		
PURP	28	0623	0632	0744	N05	W27	.453	16239	26.2	81	1N	P					
CATA	28	0630E	0630	0740	N05	W18	.309	16239	26.9	70D	-N	2 P	0630	168	1.8		
HTPR	28	0708	0718	0737	N03	W23	.395	16239	26.6	29	-F	C	0718	50	.6	E	
GRP77211	28	0744+6	0805+0	0842	N17	E56	.824	16252	2.5	58	1N				EJ		
			0825														
ATHN	28	0657	0759	0834	N15	E58	.842	16252	1.6	97	1N	1	0759	131	2.3		
PURP	28	0744	0805	0829	N16	E59	.851	16252	1.7	45	2N	C		302	2.6		
HTPR	28	0745	0752	0900	N17	E56	.824	16252	1.5	75	-N	C	0752	100	1.7	E	
ABST	28	0749	0752	0811D	N20	E54	.867	16252	1.4	22D	1N	P	0752	131	2.2	EJ	
CATA	28	0750	0805	0830	N17	E54	.864	16252	1.4	40	1N	2 C	0805	140	2.4		
YUNN	28	0807	0825	0855	N16	E56	.823	16252	1.5	48	1F	C		241			
ZURI	28	0828E	0828	0848	N17	E53	.794	16252	1.3	20D	-F	P	0828	100	1.8		

82
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
GRP77212	28	0759+6	0802+6	0824	N04	W24	.408	16239	26.5	25	-N			80	.9	J	
ABST	28	0759	0808	08110	N04	W24	.408	16239	26.5	120	-N	P	0808	87	.9	DJ	
ATHN	28	0759	0802	0823	N05	W21	.358	16239	26.8	24	-B	C	0805	80		F	
HTPR	28	0801	0805	0825	N03	W23	.395	16239	26.6	24	-N	C	0805	60	.7	E	
PURP	28	0805	0806	0821	N06	W28	.467	16239	26.2	16	1B	C					
CATA	28	0805	0805	0830	N03	W24	.411	16239	26.5	25	-N	C	0805	140	1.5		
213 ZURI	28	0900	0902	0904	S34	W25	.737	16241	26.5	4	-F	C	0902	90	1.4	ZX	
GRP77214	28	0920+9	0939	1005	N18	E55	.815	16252	2.5	45	-F					EL	
KHAR	28	0920E		09400	N18	E53	.795	16252	1.4	200	-F	P	0928	100	1.7	T	
KHAR	28	0926E		09420	N16	E57	.833	16252	1.7	160	-F	P	0928	40	.8	ET	
KHAR	28	0937E	0939	10030	N19	E64	.892	16252	2.2	260	-F	P	0939	80		T	
HTPR	28	0950	1000	1004	N18	E53	.795	16252	1.4	14	-F	C	1000	20	.3		
KHAR	28	0953E		10060	N19	E54	.806	16252	1.5	130	-F	P	0956	60	1.2	DLT	
GRP77215	28	0936	0944+1	0955	N03	W24	.411	16239	26.6	19	-F					E	
HTPR	28	0936	0944	0953	N03	W24	.411	16239	26.6	17	-F	C	0944	20	.2	E	
KHAR	28	0939E	0945	09570	N03	W25	.426	16239	26.5	180	-F	P	0945	130	1.5	ET	
GRP77216	28	1011+1	1014+2	1034	N17	E52	.784	16252	2.3	23	-F			90	1.5	E	
HTPR	28	1011	1014	1034	N17	E52	.784	16252	1.3	23	-F	C	1014	30	.5	E	
ZURI	28	1012	1016	10240	N17	E52	.784	16252	1.3	120	-F	P	1016	90	1.6		
KHAR	28	1016E		10230	N17	E57	.833	16252	1.7	70	1N	P	1020	120	2.1	ET	
217 KHAR	28	1016E		10230	S31	W33	.760	16241	26.0	70	-F	P	1020	100	1.7	E ZX	
218 KHAR	28	1020E		10230	N03	W24	.411	16239	26.6	30	-F	P	1023	80	.9	DT ZX	
219 HTPR	28	1025	1026	1034	N07	W26	.435	16239	26.5	9	-F	C	1026	20	.2	E ZX	
GRP77220	28	1054E		11320	N17	E57	.833	16252	2.7	38	-F					C	
KHAR	28	1054E		11320	N19	E60	.861	16252	2.0	380	-F	P	1109	20	.5	CDT	
KHAR	28	1126E		11320	N17	E53	.794	16252	1.5	60	-F	* P				T	
KHAR	28	1126E		11320	N16	E57	.833	16252	1.8	60	-F	* P				T	
221 KHAR	28	1057E		11320	N03	W25	.426	16239	26.6	350	-F	P	1109	80	.9	CDT ZX	
222 KHAR	28	1126E		11320	S29	E32	.737	16251	30.9	60	-F	P				E ZX	
GRP77223	28	1217+5	1222	1312	N04	W26	.439	16239	26.6	55	1B			270	3.0	E	
HTPR	28	1217	1255	1310	N04	W25	.424	16239	26.6	53	-B	C	1255	180	2.0	E	
RAMY	28	1222	1222	1313	N04	W26	.439	16239	26.6	51	-B	3 C		35			
ZURI	28	1254	1256	12560	N05	W27	.453	16239	26.5	20	1B	P	1256	370	4.2		
GRP77224	28	1219+1	1230+0	1245	N18	E58	.843	16252	2.9	26	1N			120	2.3		
RAMY	28	1219	1230	1245	N18	E50	.764	16252	1.3	26	-B	3 C		96			
HTPR	28	1220	1230	1245	N17	E58	.842	16252	1.9	25	1N	C	1230	130	2.3	EF	
ZURI	28	1232E	1232	1238	N18	E59	.852	16252	1.9	60	1N	P	1232	120	2.4		
GRP77225	28	1259+2	1308+1	1401	N18	W23	.421	16238	26.8	62	1B			230	2.6	EU	
HTPR	28	1259	1309	1410	N18	W23	.421	16238	26.8	71	1B	C	1309	210	2.3	EU	
RAMY	28	1301	1308	1408	N19	W23	.428	16238	26.8	67	1B	3 C		254		DE	
LOCA	28	1310E	1315	1340	N18	W20	.380	16238	27.0	300	1N	V	1315	285	3.2		
ZURI	28	1340E	1340	13540	N19	W22	.414	16238	26.9	140	-N	P	1340	160	1.8		
HUAN	28	1351E		14020	N18	W24	.435	16238	26.8	110	-F	1 P				E	
226 RAMY	28	1335	1335	1341	N17	E54	.804	16252	1.6	6	-N	3 C		14		F ZX	
GRP77227	28	1504+4	1509+1	1537	N03	W30	.502	16239	26.4	33	-N			30	.3		
HTPR	28	1504	1509	1531	N03	W27	.457	16239	26.6	27	-F	C	1509	20	.2		
HUAN	28	1505	1509	1512	N02	W28	.475	16239	26.5	7	-N	1 C	1509	20	.2	D	
RAMY	28	1508	1510	1543	N06	W33	.542	16239	26.2	35	-B	3 C		35		F	
BIGB	28	1508	1519	1531	N03	W28	.472	16239	26.5	23	-N	1 C	1519	20	.2		
BIGB	28	1518	1523	1547	N04	W37	.601	16239	25.9	29	-N	1 C	1523	30	.4		
GRP77228	28	1517+1	1518+1	1536	N19	E53	.796	16252	2.6	19	-F			20	.3	E	
BIGB	28	1517	1518	1541	N21	E55	.818	16252	1.8	24	-N	1 C	1518	20	.4		
HTPR	28	1518	1519	1531	N18	E51	.775	16252	1.5	13	-F	C	1519	20	.3	E	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MAGNITUDE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP77229	28	1642+5	1647+1	1720	N03	W29	.487	16239	26.5	38	-N		20	.2	E		
HTPR	28	1642	1648	1720	N03	W28	.472	16239	26.6	38	-F	C	1648	30	.3	E	
BIGB	28	1646	1647	1723	N03	W29	.487	16239	26.5	37	-N	1	C	1647	10	.1	
RAMY	28	1647	1648	1655	N06	W34	.556	16239	26.1	8	-B	3	C		30		
GRP77230	28	1659+7	1704+2	1728	N24	E54	.812	16252	2.8	29	-N			50	.9	E	
HOLL	28	1659	1706	1739	N24	E53	.803	16252	1.7	40	-B	3	C	118			
BIGB	28	1703	1704U	1747	N24	E54	.812	16252	1.8	44	-N	2	P	1704	50	.9	
RAMY	28	1704	1706	1721	N26	E53	.807	16252	1.7	17	-B	3	C		46		
HTPR	28	1705		1723D	N24	E55	.821	16252	1.8	18D	-F		C	1707	50	.9	E
PALE	28	1706	1706	1721	N25	E54	.814	16252	1.8	15	-N	3	C		32		DE
GRP77231	28	1722+3	1725+1	1750	N04	W29	.485	16239	26.5	28	-N			30	.3		
			1741														
RAMY	28	1700	1741	1747	N03	W29	.487	16239	26.5	47	-N	*	C	22			F
PALE	28	1722	1725	1750	N04	W29	.485	16239	26.5	28	-N	*	C	30			DE
BIGB	28	1725	1726	1758	N05	W29	.483	16239	26.6	33	-N	*	C	1726	30	.4	
232 HOLL	28	1800	1806	1812	N17	E57	.833	16252	2.0	12	-N	3	C		20		ZX
GRP77233	28	1804+3	1808	1836	N05	W34	.557	16239	26.2	32	-B			30	.4		
			1816+2														
PALE	28	1804	1818	2007D	N05	W34	.557	16239	26.2	123D	-N	3	C	20			FDE
RAMY	28	1806	1818	1829	N06	W35	.570	16239	26.1	23	-B	3	C	66			F
RAMY	28	1806	1808	1829	N06	W35	.570	16239	26.1	23	-F	3	C	19			F
BIGB	28	1807	1816	1836	N03	W30	.502	16239	26.5	29	-N	2	C	1816	30	.4	
BIGB	28	1817	1818	1831	N08	W38	.611	16239	25.9	14	-B	2	C	1818	30	.4	
GRP77234	28	1834+1	1842+0	1919	S28	E24	.670	16251	30.6	45	-B			100	1.3	F	
HOLL	28	1834	1842	1909	S28	E24	.670	16251	30.6	35	-B	3	C	97			
RAMY	28	1834	1842	1925	S27	E24	.660	16251	30.6	51	-B	3	C	85			F
BIGB	28	1835	1842	1935	S28	E25	.523	16251	30.6	60	-N	2	C	1842	120	1.4	
PALE	28	1849E	1849U	1912	S29	E23	.674	16251	30.5	23D	-B	3	C	55			F
GRP77235	28	1851+0	1851+0	1905	N05	W34	.557	16239	26.2	14	-N			20	.2		
PALE	28	1804	1850	2007D	N05	W34	.557	16239	26.2	123D	-F	*	C	22			FDE
HOLL	28	1851	1851	1859	N04	W34	.559	16239	26.2	8	-B	*	C	20			
RAMY	28	1851	1851	1905	N06	W35	.570	16239	26.2	14	-B	*	C	22			F
GRP77236	28	1910+4	1919+3	1955	N04	W35	.573	16239	26.2	45	-B			70	.9	E	
			1946+1														
HOLL	28	1910	1920	1951	N04	W35	.573	16239	26.2	41	-N	*	C	72			DE
HOLL	28	1910	1947	1951	N04	W35	.573	16239	26.2	41	-B	*	C	96			DE
RAMY	28	1911	1919	1926D	N06	W36	.585	16239	26.1	15D	-B	*	C	75			F
BIGB	28	1914	1922	1959	N04	W31	.515	16239	26.5	45	-B	*	C	1922	60	.7	
BIGB	28	1945	1946	1951	N03	W30	.502	16239	26.6	6	-B	*	C	1946	20	.2	E
237 HOLL	28	2040	2042	2103	S31	W37	.788	16241	26.1	23	-N	3	C		21		ZX
238 BIGB	28	2051	2052	2059	N07	W33	.541	16239	26.4	8	-F	2	C	2052	20	.3	ZX
239 BIGB	28	2113	2115	2129	N10	E73	.952	16260	3.4	16	-N	2	C	2115	30		ZX
GRP77240	28	2134+2	2135+1	2144	N06	W32	.527	16239	26.5	10	-B			30	.4	F	
BIGB	28	2134	2135	2146	N06	W32	.527	16239	26.5	12	-B	2	C	2135	30	.4	
HOLL	28	2136	2136	2141	N06	W32	.527	16239	26.5	5	-B	3	C		33		F
241 PALE	28	2138E	2138U	2138D	N18	E65	.899	16252	2.8		-B	2	C		45		FDE ZX
GRP77242	28	2148+3	2156+1	2234	N04	W32	.530	16239	26.5	46	18			250	2.9	JU	
VORO	28	2139	2157	2234	N05	W33	.543	16239	26.4	55	1N	*	C	367	4.4	EJ	
CULG	28	2148	2156	2236	N04	W23	.392	16239	27.2	48	18	*	C	2156	230	2.8	
HOLL	28	2151	2156	2251	N04	W36	.587	16239	26.2	60	18	*	C		277		U F
BIGB	28	2151	2157	2230	N06	W32	.527	16239	26.5	39	-B	*	C	2157	70	.9	
243 HOLL	28	2153	2203	2224	S30	W36	.774	16241	26.2	31	-N	3	C		36		DE ZX
244 HOLL	28	2203	2224	2246	N19	E57	.834	16252	2.2	43	-B	3	C		61		F ZX
GRP77245	28	2234+2	2236+1	2246	N06	W40	.639	16239	25.9	12	-N			60	.8	U	
HOLL	28	2151	2236	2251	N04	W36	.587	16239	26.2	60	-B	*	C	70			U F
CULG	28	2234	2236	2236D	N08	W41	.651	16239	25.9	2D	-N	*	C	60			
VORO	28	2235	2237	2246	N05	W42	.667	16239	25.8	11	1F	*	C	2241	161	2.1	E
BIGB	28	2236	2237	2246	N07	W40	.639	16239	25.9	10	-B	*	C	2237	30	.4	
246 VORO	28	2350	2351	2359	N07	W34	.555	16239	26.4	9	-F		C	2351	45	.5	D ZX

84
Aug 79

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	GEMATH PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mill of Disk		CORR. AREA Sq. Deg.
					LAT.	MER. DIST.										
GRP77248	29	0030+2	0032+1	0042	N10	E70	.935	16260	4.3	12	-N					
CULG	29	0030	0032	0041	N10	E70	.935	16260	3.3	11	-N	C	0032	80		
BIGB	29	0032	0033	0042	N10	E70	.935	16260	3.3	10	-N	1 C	0033	20		
249 BIGB	29	0038	0041	0115	N19	W44	.699	16238	25.7	37	-F	3 C	0041	40	.6	ZX
GRP77250	29	0100+0	0101+1	0119	N17	E56	.824	16252	3.2	19	-N			40	.7	
CULG	29	0100U	0102	0124	N18	E56	.824	16252	2.2	240	-N	C	0102	50	.9	
BIGB	29	0100	0101	0114	N16	E57	.833	16252	2.3	14	-B	1 C	0101	30	.6	
251 CULG	29	0100U	0103	0216	N03	W35	.575	16239	26.4	760	-N	C	0103	140	1.7	T ZX
252 CULG	29	0123U	0124	0226	N29	W44	.729	16237	25.8	630	-N	C	0124	100	1.4	FL ZX
253 PURP	29	0134	0136	01360	N22	E57	.837	16252	2.3	20	-F	P				ZX
254 CULG	29	0238	0242	0259	N04	W34	.559	16239	26.6	21	-N	C	0242	50	.6	T ZX
255 ISTA	29	0611		0622	N23	E90	.999	16263	5.0	11	-F	V	0615			AD ZX
256 ISTA	29	0617		0626	N19	E58	.843	16252	2.6	9	-N	V	0619			EF ZX
257 ISTA	29	0657		0712	S23	W01	.502	16253	29.2	15	-N	V				FU ZX
258 ABST	29	0716	0718	0725	N07	W52	.783	16239	25.4	9	-F	C	0718	87	1.4	DJ ZX
GRP77259	29	0740+5	0748+0	0810	N20	E90	.999	16263	6.1	30	1N					AF
ISTA	29	0740		0817	N21	E90	.999	16263	5.1	37	2B	V	0745			AF
KANZ	29	0742	0748	0803	N20	E90	.999	16263	5.1	21	-B	2				
MONT	29	0745	0748	07580	N19	E90	.999	16263	5.1	130	-F	C	0748	50		
260 ISTA	29	0804		0813	N14	E90	1.000	16264	5.1	9	-F	V				AD ZX
261 ZURI	29	1036	1036	1038	N12	E64	.892	16260	3.2	2	-F	C	1036	60	1.4	ZX
GRP77262	29	1200+3	1204+1	1213	N23	E45	.720	16252	2.9	13	-F			45	.7	E
ZURI	29	1200E	1204	1210	N23	E45	.720	16252	1.9	100	-F	P	1204	60	.9	
HTRP	29	1203	1205	1215	N23	E46	.730	16252	2.0	12	-F	C	1205	30	.5	E
GRP77263	29	1202+9	1210+1	1222	N18	W36	.598	16238	26.8	20	-N					E
ZURI	29	1202	1210	1220	N19	W36	.601	16238	26.8	18	-N	C	1210	110	1.4	
HTRP	29	1206	1210	1222	N18	W36	.598	16238	26.8	16	-F	C	1210	30	.4	E
WEND	29	1207		1209D	N19	W36	.601	16238	26.8	20	-N	C	1209	75	1.0	
RAMY	29	1211	1211	1229	N18	W35	.585	16238	26.9	18	-N	3 C		23		
264 BIGB	29	1430	1447	1451	N19	E70	.932		3.9	21	-N	3 C	1447	90		A ZX
265 BIGB	29	1504	1519	1550	N19	E70	.932		3.9	46	-N	3 C	1519	100		ZX
266 BIGB	29	1554	1558	1603	N19	E70	.932		3.9	9	-B	3 C	1558	50		ZX
267 BIGB	29	1558	1559	1606	S15	E65	.928	16261	3.5	8	-N	3 C	1559	30		ZX
268 BIGB	29	1606	1609	1621	N19	E70	.932		3.9	15	-B	3 C	1609	60		ZX
GRP77269	29	1651+2	1655	1720	S28	E15	.616	16251	30.8	29	-B			100	1.2	
WEND	29	1651		1719	S28	E15	.616	16251	30.8	28	-B	C	1656	113	1.4	F
BIGB	29	1653	1655	1721	S30	E15	.640	16251	30.8	28	-B	3 C	1655	90	1.0	
PALE	29	1715E	1715U	1720	S27	E13	.593	16251	30.7	50	-N	2 C		20		DE
270 BIGB	29	1721	1727	1736	S16	W90	1.001	16231	23.0	15	-N	3 C	1727	30		ZX
271 BIGB	29	1755	1800	1815	N19	E69	.926		3.9	20	-B	3 C	1800	60		ZX
272 BIGB	29	1837	1840	1849	N19	E69	.926		4.0	12	-B	3 C	1840	70		ZX
273 BIGB	29	1858	1859	1907	N19	E69	.926		4.0	9	-B	3 C	1859	40		ZX
274 BIGB	29	1915	1919	1932	N19	E69	.926		4.0	17	-B	3 C	1919	30		ZX
GRP77275	29	1925	1931	2013	N05	W44	.692	16239	26.5	48	-F					D
BIGB	29	1925	1931	2013	N05	W44	.692	16239	26.5	48	-N	3 C	1931	60	.9	
HUAN	29	1926E		1933D	N05	W45	.704	16239	26.4	70	-F	1 P				D

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	NER. DIST.											
GRP77276	29	1943+0	1954 2111+0	2043	N21	E81	.982	16263	5.9	60	-N			30			
HOLL	29	1943	2011	2037	N23	E77	.967	16263	4.6	54	-F	3	C		25		
BIGB	29	1951	1954	1959	N20	E85	.992	16263	5.2	8	-B	3	C	1954	60		
BIGB	29	2008	2011	2049	N20	E85	.992	16263	5.2	41	-B	3	C	2011	30		
277 BIGB	29	2023	2038	2106	N20	E65	.900	16252	3.7	43	-B	3	C	2038	90	ZX	
278 BIGB	29	2224	2225	2235	S34	W64	.957		25.1	11	-N	3	C	2225	30	.7 ZX	
279 BIGB	29	2235	2238	2300	N20	E67	.914		4.0	25	-F	3	C	2238	30	ZX	
280 PALE	29	2252	2252	2305	S33	W48	.872	16241	26.4	13	?N	3	C		200	F ZX	
		IMP.1	NO	BIGB													
GRP77281	29	2252+0	2253+0	2308	N05	W51	.774	16239	26.1	16	-B				70	1.1	
BIGB	29	2252	2253	2312	N05	W44	.692	16239	26.7	20	-N	3	C	2253	60	.9	
PALE	29	2252	2253	2307	N04	W51	.775	16239	26.1	15	-B	3	C		66	DE	
HOLL	29	2257E	2257U	2308	N05	W52	.785	16239	26.1	110	-B	1	C		147		
282 BIGB	29	2311	2312	2314	S33	W65	.959		25.1	3	-N	3	C	2312	20	ZX	
283 PALE	30	0047E	0049U	0050D	N17	W42	.671	16238	26.9	30	-N	1	C		28	DE ZX	
	30	0147	0209	NO FLARE PATROL													
	30	0234	0240	NO FLARE PATROL													
	30	0258	0340	NO FLARE PATROL													
284 CULG	30	0345E	0346	0400D	S22	W12	.522	16253	29.3	15D	-N		P	0346	40	.5 ZX	
285 ABST	30	0602	0608	0615	N17	W20	.372	16258	28.8	13	-F		C	0608	87	.9 D ZX	
GRP77286	30	0743+2	0744+1	0754	N07	W51	.773	16239	26.5	11	-N				80	1.3	
MONI	30	0743	0745	0749	N06	W51	.773	16239	26.5	6	-F		C	0745	70		
ZURI	30	0744	0744	0754	N07	W51	.773	16239	26.5	10	-F		C	0744	90	1.5	
KANZ	30	0745	0745	0757	N07	W51	.773	16239	26.5	12	-B	2					
287 TELV	30	0838	0848	0917	S38	W08	.716		29.8	39	-N	3	C		20	.2 ZX	
288 TELV	30	0839	0849	0905	S38	E07	.715		30.9	26	-B	3	C	0849	27	.3 E ZX	
289 MCMA	30	1343E	1348	1400D	N17	W25	.443	16258	28.7	17D	-N		C	1348	80	.9 E ZX	
290 MCMA	30	1403	1405	1410	N21	W53	.798	16238	26.6	7	-F		C	1405	30	.5 D ZX	
GRP77291	30	1410+9	1418 1430+2	1441	N20	E70	.932	16263	5.8	31	-F					EK	
MCMA	30	1410	1432	1439D	N18	E70	.932	16263	4.8	29D	-N		C				
MCMA	30	1410	1418	1439D	N18	E70	.932	16263	4.8	29D	-N		C	1432	60	1.8 EK	
ZURI	30	1416	1432	1440D	N20	E70	.932	16263	4.8	24D	1F		P	1432	100		
HTPR	30	1425	1430	1441	N20	E70	.932	16263	4.9	16	-F		C	1430	20		
GRP77292	30	1443+2	1447	1450	N20	E70	.932	16263	5.9	7	-F				35		
HUAN	30	1443		1447D	N20	E70	.932	16263	4.9	4D	-N	1	P	1447	40	T	
HTPR	30	1445	1447	1450	N20	E70	.932	16263	4.9	5	-F		C	1447	30		
GRP77293	30	1516+1	1520	1534	N20	E69	.926	16263	5.8	18	-F				25		
HUAN	30	1516		1542	N20	E70	.932	16263	4.9	26	-N	1	C	1518	30		
HTPR	30	1517	1520	1525	N20	E69	.926	16263	4.8	8	-F		C	1520	20		
GRP77294	30	1547+8	1557+4	1654D	N20	E70	.932	16263	5.9	67	-B				60	EHKS	
KANZ	30	1414	1601	1700D	N19	E70	.932	16263	4.8	166D	1B	2				K	
HTPR	30	1547		1718D	N20	E69	.926	16263	4.8	91D	-B		C	1558	70		
MCMA	30	1552	1557	1654D	N18	E70	.932	16263	4.9	62D	-B		C	1557	50	1.5 EHS	
HUAN	30	1555		1630	N20	E70	.932	16263	4.9	35	-N	1	C	1611	40		
WEND	30	1557E		1640D	N20	E69	.926	16263	4.8	43D	1B		C	1612	94		
GRP77295	30	1655	1716+1 1800+2	1820D	N21	E66	.907	16263	5.7	85	1B					EK	
MCMA	30	1655	1802	1820D	N18	E70	.932	16263	5.0	85D	-B		C				
MCMA	30	1655	1716	1820D	N18	E70	.932	16263	5.0	85D	-B		C	1802	50	1.5 EK	
HOLL	30	1657E	1812	1813D	N21	E62	.878	16263	4.4	76D	1N	3	V		267		
PALE	30	1712	1800	1824	N21	E62	.920	16263	4.8	72	1B	3	C		151	DE	
PALE	30	1712	1717	1824	N21	E62	.920	16263	4.8	72	-F	3	C		56	DE	
HOLL	30	1812E	1812	2001	N21	E65	.900	16263	4.6	109D	1N	3	C		267		

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION				CMP. DAY	COND.	TYPE		TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.
					LAT.	MER. DIST.												
GRP77296	30	1821>9	1839+0	2016	N21	E67	.914	16263	5.8	115	18				E			
HOLL	30	1812E	1839	2016	N21	E65	.900	16263	4.6	124D	1N	3	C	188				
MCMA	30	1821	1839	2047	N18	E70	.932	16263	5.0	146	-B		C	1839	40	1.2	E	
PALE	30	1839	1839	1908	N21	E67	.914	16263	4.8	29	-B	3	C	119			DE	
GRP77297	30	2022+1	2030+1	2044	N21	E66	.907	16263	5.8	22	-N			25				
MCMA	30	1821	2030	2047	N18	E70	.932	16263	5.0	146	-B		C					
HUAN	30	2022		2042	N21	E65	.900	16263	4.7	20	-N	1	C	2030	30			
HOLL	30	2023	2031	2044	N22	E66	.907	16263	4.8	21	-N	3	C		23			
GRP77298	30	2120>9	2120	2150	N05	W64	.896	16239	26.1	30	-N							
			2136+0															
CULG	30	2120E	2120U	2150	N08	W70	.935	16239	25.6	300	1F		P	2120	120	3.0	8	
HOLL	30	2124	213E	2203	N05	W62	.880	16239	26.2	39	-B	3	C		81			
PALE	30	2132	2136	2142	N04	W64	.897	16239	26.1	10	-N	3	C		34		DE	
GRP77299	30	2132+4	2134+2	2147	N20	E65	.900	16263	5.8	15	-N			50				
CULG	30	2132	2134	2152	N19	E64	.892	16263	4.7	20	-N		C	2134		.9		
PALE	30	2136	2136	2141	N21	E66	.907	16263	4.9	5	-N	3	C		59		DE	
300 CULG	30	2222	2224	2233	S33	W66	.963	16241	26.0	11	-N		C	2224	30		ZX	
301 CULG	30	2251	2254	2303	N07	W75	.963	16239	25.3	12	-F		C	2254	40		ZX	
GRP77302	30	2319+6	2327+0	2341	N20	E64	.892	16263	5.8	22	-N							
CULG	30	2319	2327	2341	N19	E65	.899	16263	4.8	22	-F		C	2327	60	1.4	T	
HOLL	30	2325	2327	2341	N21	E64	.893	16263	4.8	16	-B	3	C		14			
GRP77303	30	2352+2	2359+2	0016	N20	E65	.900	16263	5.9	24	-N			70				
BIGB	31	0000E	0001	0016	N20	E65	.900	16263	4.9	16D	-N	3	P	0001	50			
CULG	30	2352	2401	0016	N19	E65	.899	16263	4.9	24	1N		C	2401	100	2.3	T	
HOLL	30	2354	2359	0017	N22	E64	.893	16263	4.8	23	-B	3	C		51			
304 CULG	31	0001	0005	0017	N03	W70	.938	16239	25.8	16	-F		C	0005	30		ZX	
GRP77305	31	0023+3	0027+0	0033	N18	W56	.824	16238	26.8	10	-F			35	.6		U	
CULG	31	0023	0027	0033	N20	W58	.844	16238	26.7	10	-F		C	0027	40	.7		
HOLL	31	0026	0027	0033	N16	W54	.804	16238	27.0	7	-N	3	C		25		U	
GRP77306	31	0045+2	0048+2	0055	N21	E64	.893	16263	5.8	10	-N			30	.7			
HANI	31	0045	0048	0055	N20	E63	.885	16263	4.8	10	-N	3	V		30			
HOLL	31	0047	0050	0054	N21	E64	.893	16263	4.8	7	-N	2	C		26			
PALE	31	0048E	0048U	0052D	N21	E64	.893	16263	4.8	4D	-N	3	C		29		DE	
GRP77307	31	0121	0131	0207	S35	W69	.976	16241	25.9	46	-N							
			0154															
CULG	31	0121	0131	0150	S33	W69	.973	16241	25.9	29	-N		C	0131	30			
CULG	31	0146	0154	0207	S38	W70	.982	16241	25.8	21	-F		C	0154	40			
308 CULG	31	0146	0158	0215	N06	W80	.983	16239	25.1	29	-N		C	0158	30		ZX	
309 CULG	31	0248	0250	0251D	N18	E61	.868	16263	4.7	3D	-N		P	0250	80	1.6	T	
310 PURP	31	0313E	0313	0315	N20	E62	.877	16263	4.8	2D	?N		P				ZX	
		IMP.1 NO :	FALE	YUNN														
311 ABST	31	0519	0522	0540	N16	E63	.884	16263	4.9	21	?F		C	0528	131		FJ	
		IMP.1 NO :	YUNN	TACH													ZX	
GRP77312	31	0630+7	0639+3	0657	N18	W58	.843	16238	26.9	27	-N			60	1.2		EJ	
CULG	31	0630	0639	0658	N18	W58	.843	16238	26.9	28	-N		P	0639	30	.6		
WEND	31	0631		0657	N19	W58	.843	16238	26.9	26	-N		C	0642	70	1.8		
HPR	31	0632	0642	0657	N17	W57	.833	16238	27.0	25	-F		C	0642	60	1.0	E	
ABST	31	0637	0641	0655	N20	W60	.861	16238	26.8	18	1N		C	0641	131	2.5	EJ	
ISTA	31	0648E		0657	N18	W59	.851	16238	26.9	9D	-F		V				E	
313 HPR	31	0648	0649	0655	N18	E57	.834	16263	4.6	7	-F		C	0649	60	1.0	ZX	
GRP77314	31	0657+6	0701	0718	N07	W77	.972	16239	25.5	21	-F			70			DJ	
ABST	31	0657	0701	0718	N07	W86	.996	16239	24.8	21	1F		C	0701	87		DJ	
WEND	31	0659		0730	N07	W77	.972	16239	25.5	31	-N		C	0705	50		D	
ISTA	31	0703		0708	N07	W74	.958	16239	25.7	5	-F		V				D	

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA		CORR AREA	
					LAT.	MER. DIST.											Mill of Disk
GRP77315	31	0710	0722	0729	N18	E59	.851	16263	5.7	19	-F		90	1.8	DJ		
YUNN	31	0710	0723	0730	N19	E59	.852	16263	4.7	20	1F	C	112				
HTPR	31	0717	0722	0730	N18	E57	.834	16263	4.6	13	-F	C	0722	40	.7		
ISTA	31	0718		0725	N19	E60	.860	16263	4.8	7	-F	V			D		
ABST	31	0720	0723	0728	N16	E65	.899	16263	5.2	8	-N	C	0723	87	DJ		
GRP77316	31	0745	0757	0810	N19	E59	.852	16263	5.7	25	1F		120	2.4	E		
WEND	31	0745	0759	0816	N20	E58	.844	16263	4.7	31	1N	C	0759	120	3.2		
ZURI	31	0746	0806	0808	N19	E58	.843	16263	4.7	22	-N	C	0806	50	1.0		
YUNN	31	0746	0758	0810	N19	E62	.877	16263	5.0	24	1F	C		161			
MONT	31	0748	0757	0812	N20	E61	.869	16263	4.9	240	-F	C	0757	50	E		
HTPR	31	0750	0805	0808	N18	E56	.824	16263	4.5	18	-F	C	0805	30	.5		
317	HTPR	31	0828	0831	0834	N18	E56	.824	16263	4.6	6	-F	C	0831	20	.3	ZX
318	ZURI	31	0832	0840	0856	N08	W70	.935	16239	26.1	24	-F	C	0840	70		ZX
319	ZURI	31	0846	0852	0856	N20	E62	.877	16263	5.0	10	?F	C	0852	140	3.0	ZX
	IMP. 1 NO																
GRP77320	31	0906	0908	0914	N18	E56	.824	16263	5.6	8	-N		40	.7	D		
ZURI	31	0906	0908	0914	N19	E57	.834	16263	4.7	8	-N	C	0908	50	1.0		
HTPR	31	0907	0908	0913	N18	E55	.815	16263	4.5	6	-F	C	0908	20	.3		
WEND	31	0910E		0912D	N18	E56	.824	16263	4.6	20	-N	C	0910	50	1.0	D	
321	ZURI	31	1032	1034	1034	N04	W66	.912	16239	26.5	2	-F	C	1034	60		ZX
322	ZURI	31	1050	1050	1052	N04	W66	.912	16239	26.5	2	-F	C	1050	50		ZX
323	TELV	31	1050	1053	1055	N38	W68	.929		26.4	5	-N	3 C		20		ZX
GRP77324	31	1110	1112	1117	N19	E55	.816	16263	5.6	7	-N		70	1.3			
HTPR	31	1110	1112	1116	N18	E54	.805	16263	4.5	6	-N	C	1112	50	.9		
ZURI	31	1110	1112	1118	N19	E57	.834	16263	4.7	8	-B	C	1112	100	1.9		
KANZ	31	1114E		1117	N19	E55	.816	16263	4.6	30	-N	1					
325	ZURI	31	1112	1120	1128	N17	E20	.372	16252	2.0	16	-F	C	1120	50	.6	ZX
GRP77326	31	1210	1218	1242	N11	E60	.860	16264	6.0	32	-N						
KANZ	31	1210	1218	1244	N11	E60	.860	16264	5.0	34	-N	1			T		
ZURI	31	1216	1220	1240	N12	E61	.868	16264	5.1	24	1F	C	1220	150	3.3		
327	HOLL	31	1340	1359	1408	N12	E59	.851	16264	5.0	28	-B	3 C		95	F	ZX
328	ZURI	31	1400	1400	1406	N01	W81	.988	16239	25.5	6	-F	C	1400	50		ZX
GRP77329	31	1426	1436	1512	N12	E61	.868	16264	6.2	46	-N						
HOLL	31	1409	1436	1801	N13	E59	.850	16264	5.0	232	1N	3 C		166			
ZURI	31	1426	1436	1442	N12	E60	.859	16264	5.1	16	1N	C	1436	250	5.5		
BIGB	31	1426	1439	1507	N11	E59	.851	16264	5.0	41	-N	3 C	1439	50	1.0		
KANZ	31	1426	1438	1505	N10	E60	.860	16264	5.1	39	-N	2					
HUAN	31	1426	1435	1513	N13	E59	.850	16264	5.0	9	-F	1 C					
LOCA	31	1430E	1430	1505	N12	E60	.859	16264	5.1	350	-N	V	1430	82	1.7		
WEND	31	1431E	1548	1548	N13	E62	.876	16264	5.3	770	-N	* C	1450	90	2.0		
ZURI	31	1448	1450	1450D	N12	E62	.876	16264	5.3	20	-F	* P	1450	90	2.0		
KANZ	31	1449	1457	1513	N11	E65	.900	16264	5.5	24	-N	*					
HUAN	31	1449	1506	1506	N13	E64	.892	16264	5.4	17	-F	1 C	1457	20	.4		
HTPR	31	1450	1453	1510	N12	E58	.842	16264	5.0	20	-F	C	1453	20	.3		
BIGB	31	1451	1456	1515	N12	E63	.884	16264	5.3	24	-N	* C	1456	20	.5		
GRP77330	31	1522	1527	1551	N11	E60	.860	16264	6.1	29	-F						
HUAN	31	1522		1545	N11	E60	.860	16264	5.1	23	-F	* C					
KANZ	31	1523	1527	1551	N10	E58	.842	16264	5.0	28	-F	*					
BIGB	31	1524	1529	1650	N11	E60	.860	16264	5.1	86	-N	* C	1529	60	1.2		
GRP77331	31	1701	1712	1722	N12	E58	.842	16264	6.1	21	-N		45	.9			
BIGB	31	1701	1712	1722	N11	E59	.851	16264	5.1	21	-N	* C	1712	40	.8		
HUAN	31	1704		1721	N12	E58	.842	16264	5.1	17	-F	* C					
PALE	31	1708	1713	1728	N12	E55	.813	16264	4.8	20	-N	* C		46		FDE	
GRP77332	31	1732	1733	1820	N12	E59	.851	16264	6.2	48	-B		60	1.2			
HOLL	31	1409	1733	1801	N13	E59	.850	16264	5.0	232	-B	* C		84			
BIGB	31	1732	1735	1837	N11	E59	.851	16264	5.2	65	-B	* C	1735	50	1.0		
BIGB	31	1805	1808	1839	N11	E59	.851	16264	5.2	34	-N	* C	1808	50	1.0		

H α SOLAR FLARES

AUGUST 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPROVEMENT	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq. Deg.
					LAT.	MER DIST											
333 BIGB	31	1758	1803	1823	S35	H70	.978	16241	26.5	25	-N	3	C	1803	30		ZX
GRP77334	31	1802+1	1803+1	1820	S01	H62	.929	16239	26.7	18	-N				25		
HOLL	31	1802	1803	1824	N02	H67	.920	16239	26.7	22	-N	3	C		21		
BIGB	31	1803	1804	1816	S05	H70	.945	16239	26.5	13	-N	3	C	1804	30		
335 BIGB	31	1806	1807	1816	N20	E56	.826	16263	5.0	10	-B	3	C	1807	20	.4	ZX
336 HOLL	31	1843	1847	1851	N16	H39	.631	16258	28.9	8	-B	3	C		20		ZX
GRP77337	31	1843+6	1851+1	1904	S19	E90	1.001	16267	8.5	21	-N						
BIGB	31	1843	1852	1905	S20	E90	1.001	16267	7.5	22	-B	*	C	1852	40		
HOLL	31	1849	1851	1902	S19	E90	1.001	16267	7.5	13	-N	*	C				
338 BIGB	31	1850	1855	2002	N11	E59	.851	16264	5.2	72	-N	3	C	1855	50	1.0	ZX
339 HOLL	31	1918	1919	1932	N04	H73	.955	16239	26.3	14	-B	3	C		38		ZX
340 HOLL	31	1943	1944	1952	N04	H73	.955	16239	26.3	9	-N	3	C		27		ZX
341 BIGB	31	2013	2023	2115	N11	E58	.842	16264	5.2	62	-N	3	C	2023	60	1.2	ZX
GRP77342	31	2016+4	2019+3	2032	N19	E52	.786	16263	5.7	16	-B				40	.7	E
HOLL	31	2016	2019	2036	N21	E53	.798	16263	4.8	20	-B	3	C		64		OE
PALE	31	2018	2019	2026	N18	E51	.775	16263	4.7	8	-N	3	C		35		
BIGB	31	2018	2020	2036	N19	E51	.776	16263	4.7	18	-B	3	C	2020	30	.5	
MCHA	31	2018	2019	2031	N18	E53	.795	16263	4.8	13	-B		C	2019	40	.7	E
HUAN	31	2020	2022	2028	N20	E52	.787	16263	4.7	8	-N	2	C	2022	30	.4	E
GRP77343	31	2110+1	2111+1	2118	N18	E51	.775	16263	5.7	8	-N				25	.4	
BIGB	31	2110	2111	2122	N19	E51	.776	16263	4.7	12	-N	3	C	2111	30	.5	
PALE	31	2111	2112	2113	N18	E51	.775	16263	4.7	2	-N	3	C		17		FDE
GRP77344	31	2231+0	2231+0	2259	N20	E52	.787	16263	5.8	28	-N				70	1.2	
HOLL	31	2231	2251	2307	N22	E52	.790	16263	4.8	36	-B	*	C		110		OE
HOLL	31	2231	2231	22580	N22	E52	.790	16263	4.8	270	-N	*	V		40		OE
HOLL	31	2231	2231	2307	N22	E52	.790	16263	4.8	36	-N	*	C				OE
CULG	31	2242	2240	2301	N18	E49	.753	16263	4.6	19	-N	*	C	2248	60	.9	T
BIGB	31	2245	2249	2302	N19	E58	.843	16263	5.3	17	-N	*	C	2249	40	.8	
PALE	31	2247	2250	2252	N18	E50	.764	16263	4.7	5	-N	*	C		67		OE
HANI	31	2250E	2250U	2255	N21	E53	.798	16263	4.9	50	-B	*	C		80		F
345 BIGB	31	2237	2238	2241	N06	H76	.976	16239	26.1	4	-N	3	C	2238	40		ZX
346 CULG	31	2336	2339	2347	N06	H81	.986	16239	25.9	11	-F		C	2339	10		ZX

"REMARKS":

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

DAILY FLARE INDICES

Includes all Flares

AUGUST 1979								
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
790801.	103.39	24.0	790812.	51.08	23.1	790823.	108.68	24.0
790802.	50.35	24.0	790813.	57.95	23.7	790824.	174.69	23.9
790803.	30.19	23.8	790814.	133.09	24.0	790825.	179.21	23.9
790804.	29.82	23.8	790815.	101.66	24.0	790826.	352.24	24.0
790805.	18.91	23.4	790816.	114.48	23.3	790827.	107.73	24.0
790806.	7.18	21.6	790817.	21.96	23.8	790828.	216.81	24.0
790807.	12.91	23.5	790818.	45.27	22.2	790829.	53.74	24.0
790808.	21.80	24.0	790819.	64.86	23.9	790830.	51.45	22.8
790809.	27.24	23.3	790820.	154.45	24.0	790831.	61.12	24.0
790810.	213.49	24.0	790821.	577.82	24.0			
790811.	42.12	24.0	790822.	97.39	24.0			

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