

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP79266	01	0023>9	0024 0037+3	0105	S15	E41	.707	16401	4.1	42	1N						D	
PURP	01	0023	0024	0053	S12	E36	.634	16401	3.7	30	-N	C						
CULG	01	0032	0037	0118	S15	E41	.707	16401	4.1	46	1N	C	0037	300	4.2			
MITK	01	0035	0040	0104	S16	E41	.712	16401	4.1	29	-N	C	0040				D	
MANI	01	0038E	0039	0055D	S15	E46	.761	16401	4.5	17D	-N	C		120				
PURP	01	0039	0040	0105	S14	E41	.703	16401	4.1	26	2N	C		491	6.9			
267 CULG	01	0106	0112	0122	S17	W70	.953	16384	26.8	16	?F	C	0112	100			ZX	
IMP.1 NO :	PURP																	
268 PURP	01	0149	0155	0159	N14	E18	.345	16398	2.4	10	?F	P					ZX	
IMP.1 NO :	MITK																	
269 PURP	01	0300	0303	0422	N11	E44	.695	16402	4.4	82	-F	P					ZX	
270 CULG	01	0451	0456	0515	N12	E69	.999	16408	7.9	24	?N	C	0456	100			ZX	
IMP.1 NO :	PURP MITK																	
GRP79271	01	0708	0714+6	0724	S10	E34	.599	16401	3.8	16	-F			25	.3			
YUNN	01	0708	0714	0722	S10	E34	.599	16401	3.8	14	-F	C		31	.4			
MANI	01	0719E	0720	0725D	S10	E35	.612	16401	3.9	6D	-N	C	3	15	.2			
GRP79272	01	0745+3	0752+3 0806+1	0815	N11	E11	.220	16398	2.1	30	1F						J	
CATA	01	0745	0755	0810D	N11	E11	.220	16398	2.1	25D	-F	2	P	0755	140	1.5		
ABST	01	0748	0752	0753D	N13	E14	.280	16398	2.4	5D	1F	P	0752	384	4.1		FJ	
ABST	01	0805E	0806	0811	N17	E08	.256	16398	1.9	6D	-N	*	P	0806	114	1.5		E
PURP	01	0805	0807	0818	N10	E15	.274	16398	2.5	13	1F	*	P					
273 CATA	01	0800	0800	0805	N15	W08	.228	16392	31.7	5	-N	2	C	0800	84	1.0		ZX
274 CATA	01	0805	0805	0810D	N09	W85	.995	16396	26.0	5D	?F	2	P	0805	112			ZX
IMP.1 NO :	PURP YUNN ABST																	
GRP79275	01	0805+0	0813+1 0920	0836	N13	W72	.948	16386	26.9	31	1B						FJ	
ABST	01	0805	0814	0907D	N11	W67	.913	16386	27.3	62D	2B	P	0814	262			FJ	
CATA	01	0805	0810	0810D	N10	W70	.937	16386	27.1	5D	19	2	P	0810	140			
MANI	01	0812E	0813	0830D	N16	W75	.963	16386	26.7	18D	-N	2	V		80	1.9		F
ATHN	01	0812E	0813	0842D	N16	W75	.963	16396	26.7	30D	-B	1		0813	49	1.8		
PURP	01	0818	0820	0823	N12	W71	.943	16386	27.0	5	1N	C						
276 ABST	01	0846	0848	0900	S14	E51	.807	16401	5.2	14	?F	C	0848	175	3.1		DJ	ZX
IMP.1 NO :	YUNN																	
277 ATHN	01	0852E	0853	0907D	S11	E33	.592	16401	3.8	15D	-B	1		0853	23	.2		ZX
278 KHAR	01	0920E		0950D	N19	E13	.331	16398	2.4	30D	-F	P	0930	100	1.1		ET	ZX
GRP79279	01	1000E	1007+0	1040D	N15	E84	.993	16408	7.7	40	1N						EH	
KHAR	01	1000E	1007	1033D	N14	E88	.999	16408	8.0	33D	1N	P					EH	
ATHN	01	1005E	1007	1040D	N16	E80	.982	16408	7.4	35D	1B	1		1007	163	4.8		
280 KHAR	01	1050E		1107D	N19	E11	.311	16398	2.3	17D	-F	P	1053	30	.3		DT	ZX
281 KHAR	01	1133E		1140D	N19	E12	.321	16398	2.4	7D	-F	P	1133	30	.3		DT	ZX
GRP79282	01	1653	1654+1	1706	N13	W63	.889	16394	28.0	13	-N			30	.7			
RAMY	01	1653	1654	1657D	N12	W62	.881	16394	28.1	4D	-B	3	C	19				
HOLL	01	1654E	1655U	1706	N14	W65	.904	16394	27.8	12D	-N	3	C	40				
283 RAMY	01	1755	1802	1805	N18	E64	.898	16406	6.5	10	-F	3	C	19			ZX	
284 RAMY	01	1848	1848	1906	N12	E35	.580	16402	4.4	18	-F	3	C	19			F	ZX
GRP79285	01	1928	1928	1950	N14	E08	.215	16398	2.4	22	-N							
RAMY	01	1928	1928U	1953D	N19	E07	.278	16398	2.3	25D	-N	3	C	37			F	
HUAN	01	1935E		1947	N10	E10	.197	16398	2.6	12D	-F	1	P				E	
GRP79286	01	2001E	2005+4	2043	N15	E08	.228	16398	2.4	42	-N						F	
CULG	01	2001E	2009U	2049U	N13	E06	.181	16398	2.3	48D	1N	P	2009	260	2.7		FB	
CULG	01	2001E	2005U	2036	N17	E11	.285	16398	2.7	35D	-N	C	2005	40	.4			
287 CULG	01	2056	2104	2108D	S18	W31	.614	16398	30.5	12D	-N	P	2104	40	.5		ZX	
288 CULG	01	2122	2145	2236	N04	E32	.529	16402	4.3	74	-F	C	2145	100	1.2		IF	ZX

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
289 CULG	01	2137	2201	2221	N24	E18	.441	16399	3.3	44	-F	C	2201	80	.9	ZX	
GRP79290	01	2153+3	2159+1	2206	N08	W79	.980	16386	27.0	13	-N			50		G	
CULG	01	2153	2200	2207	N08	W80	.983	16386	26.9	14	-N	C	2200	50			
BIGB	01	2156	2159	2204	N09	W78	.976	16386	27.1	8	-N	C	2159	50		G	
291 CULG	01	2242	2250	2306	N15	E65	.904	16406	6.8	24	-F	C	2250	30	.7	ZX	
292 CULG	01	2302	2306	2314	S15	E39	.685	16401	4.9	12	-F	C	2306	40	.6	L ZX	
293 CULG	01	2353	2402	0011	N15	E64	.897	16406	6.8	18	-F	C	2402	40	.9	ZX	
294 CULG	01	2353	2404	0025	N17	E09	.265	16398	2.7	32	-N	* C	2404	120	1.2	ZX	
295 VORO	02	0222E		0236	N17	E04	.230	16398	2.4	140	-N	C	0224	63	.7	E ZX	
296 CULG	02	0254	0258	0317	S24	E75	.979	16410	7.7	13	-F	C	0258	20		ZX	
297 CULG	02	0313	0318	0329	S18	W33	.635	16388	30.7	16	-F	C	0318	40	.5	G ZX	
298 RAMY	02	1254	1255	1300	S29	W06	.556	16404	2.1	6	-F	3 C		43		ZX	
299 HTPR	02	1348	1351	1355	N12	E20	.362	16402	4.1	7	-F	C	1351	40	.4	ZX	
300 HTPR	02	1509	1510	1511	N16	W10	.263	16398	1.9	2	-F	C	1510	30	.3	ZX	
301 RAMY	02	1639	1642	1709	S14	E20	.454	16401	4.2	30	-N	3 C		121		F ZX	
302 RAMY	02	1655	1655	1700	N12	E22	.392	16402	4.4	5	-N	3 C		23		ZX	
303 BIGB	02	1757	1759U	18060	S14	E19	.443	16401	4.2	90	-F	1		50	.5	ZX	
304 BIGB	02	1802	1804	1805	N18	W09	.280	16398	2.1	3	-F	1		25	.3	ZX	
GRP79305	02	1812+2	1815+1	1826	S20	W85	.998	16384	27.4	14	-F						
BIGB	02	1812	1815	1828	S19	W85	.998	16384	27.4	16	-F	1					
RAMY	02	1814	1816	1823	S22	W85	.999	16384	27.4	9	-F	3 C					
GRP79306	02	1823+6	1830+2	1901	N12	E21	.377	16402	4.3	38	-F			70	.8	F	
BIGB	02	1823	1830	18520	N07	E25	.423	16402	4.6	290	-F	1		37	.5		
HOLL	02	1825	1857	1924	N12	E24	.422	16402	4.6	59	-F	2 C		87		F	
RAMY	02	1829	1832	1843	N12	E21	.377	16402	4.3	14	-F	3 C		32		F	
BIGB	02	1855	1857	1901	N11	E16	.296	16402	4.0	6	-N	1		50	.5		
307 BIGB	02	1906	1907	1910	N17	W11	.287	16398	2.0	4	-F	1		25	.3	ZX	
308 BIGB	02	1934	1935	1941	N17	W11	.287	16398	2.0	7	-F	1		25	.3	ZX	
309 CULG	02	2011	2016	2022	N18	W11	.299	16398	2.0	11	-F	C	2016	40	.4	ZX	
310 CULG	02	2047	2050	2059	N14	W03	.176	16398	2.6	12	-F	C	2050	50	.5	ZX	
GRP79311	02	2114	2116	2353	N20	W01	.271	16398	2.8	159	-N					K	
BIGB	02	2114	2116	2201	N20	W02	.273	16398	2.7	47	-N	1		25	.3		
BIGB	02	2126	2339	2353	N20	E01	.271	16398	3.0	147	-N	1		50	.5	K	
BIGB	02	2129	2133	2258	N19	W01	.254	16398	2.8	89	-N	1		30	.3		
GRP79312	02	2134	2141	22030	N18	W11	.299	16398	2.1	29	-F						
BIGB	02	2134	2145	22030	N19	W11	.312	16398	2.1	290	-F	1		12	.1		
BIGB	02	2144	2145	2146	N17	W12	.298	16398	2.0	2	-F	1		16	.2		
GRP79313	03	0016+5	0021+1	0027	N19	W04	.264	16398	2.7	11	-F					F	
PALE	03	0016	0021	0028	N19	W05	.269	16398	2.6	12	-F	3 C		31		F	
PURP	03	0021	0022	0025	N19	W04	.264	16398	2.7	4	-F	C					
GRP79314	03	0121+4	0127+3	0147	S16	E14	.415	16401	4.1	26	-F						
CULG	03	0121	0130	0146	S16	E13	.406	16401	4.0	25	-F	C	0130	80	.9		
PURP	03	0125	0127	0147	S16	E15	.424	16401	4.2	22	-N	C					
GRP79315	03	0201+8	0209+1	0220	N19	W04	.264	16398	2.8	19	-F						
CULG	03	0201	0209	0210	N19	W04	.264	16398	2.8	17	-F	C	0209	50	.6	T	
PURP	03	0209	0210	0221	N19	W04	.264	16398	2.8	12	-N	C					
316 PURP	03	0338	0346	0355	N19	W04	.264	16398	2.9	17	-F	P				ZX	

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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
GRP79317	03	0451+7	0456+4	0508	N20	W05	.285	16398	2.8	17	-F		120	1.3	H		
CULG	03	0451	0456	0508	N20	W05	.285	16398	2.8	17	-F	C	0456	160	1.6	TH	
YUNN	03	0458	0500	0507	N20	W06	.290	16398	2.8	9	-N	C		79	.8		
318 PUPP	03	0800	0806	0812	N18	W08	.273	16398	2.7	12	-N	P				ZX	
	03	0900	0910	NO FLARE DETECTED													
319 KHAR	03	1155E	1158	1205D	S16	E15	.424	16401	4.6	100	-F	P	1203	45	.5	D	ZX
GRP79320	03	1439+4	1440+4	1455	S13	E22	.467	16401	5.3	16	-B			120	1.3	H	
WEND	03	1439	1443	1447	S14	E17	.420	16401	4.9	8	-N	V	1443	120	1.3		
LOCA	03	1440E	1440	1454	S15	E22	.486	16401	5.3	140	1N	V	1440	204	2.4	H	
RAMY	03	1442	1444	1452	S12	E21	.445	16401	5.2	10	-R	3	C	118		FDE	
HTPR	03	1442	1444	1511	S13	E22	.467	16401	5.3	29	-B	C	1444	120	1.2	E	
HOLL	03	1443	1443	1458	S13	E22	.467	16401	5.3	15	-B	3	C	58		F	
GRP79321	03	1513+4	1513	1543	N15	W50	.771	16389	30.9	30	-N					F	
			1523														
RAMY	03	1513	1513	1548	N16	W51	.782	16389	30.8	35	-N	3	C	34		F	
HOLL	03	1517	1523	1537	N15	W50	.770	16389	30.9	20	1N	3	C	237		F	
HOLL	03	1517	1519	1537	N15	W49	.761	16389	31.0	20	-F	3	C	57		F	
GPP79322	03	1517+0	1520+0	1552	S16	E08	.379	16401	4.2	35	-N					F	
HCLL	03	1517	1520	1553	S17	E07	.379	16401	4.2	36	1N	3	C	225		F	
HTPR	03	1517	1520	1550	S15	E10	.368	16401	4.4	37	-N	C	1520	60	.6	E	
323 HOLL	03	1622	1625	1630	S15	E07	.349	16401	4.2	8	-F	3	C	78		ZX	
324 HOLL	03	1647	1647	1652	N18	W13	.322	16398	2.7	5	-F	3	C	21		ZX	
GRP79325	03	1656+3	1701+0	1734	N13	W17	.325	16398	2.6	38	-N			50	.5	FH	
RAMY	03	1655	1701	1733	N14	W16	.319	16398	2.5	37	-N	3	C	69		F	
HOLL	03	1659	1701	1734	N13	W18	.339	16398	2.4	35	-N	3	C	44		F	
GRP79326	03	1737+0	1738	1830	N18	W13	.322	16398	2.8	57	-N			70	.7	FU	
			1811+9														
PALE	03	1721E	1738	1755	N18	W12	.311	16398	2.8	350	-F	2	C	35		F	
HOLL	03	1737	1820	1838	N17	W13	.310	16398	2.8	61	-B	3	C	60		F	
RAMY	03	1737	1811	1830	N18	W14	.333	16398	2.7	53	-N	3	C	83		F U	
GRP79327	03	1754+3	1803+4	1837	S15	E06	.344	16401	4.2	43	1B			270	2.9	FU	
RAMY	03	1754	1803	1837	S15	E06	.344	16401	4.2	43	1B	3	C	271		F	
HOLL	03	1757	1804	1838	S17	E07	.379	16401	4.3	41	1B	3	C	288		F	
PALE	03	1805E	1807U	1823	S15	E05	.339	16401	4.1	180	-N	2	C	124		U F	
GRP79328	03	1948+3	1952+2	2013	N18	W14	.333	16398	2.8	25	-F					FH	
HOLL	03	1948	1954	2018	N18	W15	.344	16398	2.7	30	-N	3	C	100		F	
PALE	03	1951	1952	2017	N18	W13	.322	16398	2.9	16	-F	2	C	38		H F	
329 CULG	03	2032	2034	2038	N19	E03	.244	16402	4.1	6	-N	C	2034	120	1.3	ZX	
GPP79330	03	2111+6	2117+0	2126	S16	E03	.349	16401	4.1	15	-F			50	.5		
CULG	03	2111	2117	2126D	S15	E02	.347	16401	4.0	150	-F	C	2117	70	.7		
HOLL	03	2117	2117	2126	S16	E05	.355	16401	4.3	9	-F	3	C	25			
GRP79331	03	2123+9	2213+1	2237	N18	W17	.368	16398	2.6	69	-N			140	1.5	F	
CULG	03	2123	2213	2236	N19	W17	.378	16398	2.6	73	-N	C	2213	180	1.9		
HOLL	03	2152	2214	2216D	N17	W16	.346	16398	2.7	240	-B	3	C	140		F	
PALE	03	2204	2206	2206	N18	W20	.406	16398	2.4	?	-F	2	C	54		FDE	
MANI	03	2215E	2215U	2227D	N18	W17	.368	16398	2.7	120	-N	3	C	100		F	
322 CULG	03	2240	2256	2313	N25	E53	.818	16409	7.9	24	?N	C	2256	200	3.4	F	ZX
		IMP. 1	NO :	HOLL													
333 CULG	03	2320	2335	2347	S25	W54	.866	16388	30.9	27	-F	C	2335	40	.8	ZX	
334 HOLL	03	2344	2345	2348D	N13	E04	.168	16402	4.3	40	-N	2	C	30		ZX	
GRP79335	04	0018	0019	0023	N19	W18	.392	16398	2.7	5	-F						
PURP	04	0018	0019	0020	N19	W19	.404	16398	2.6	2	-F	P					
YUNN	04	0020E	0020	0025	N19	W17	.380	16398	2.7	50	-F	P		63	.7		
336 CULG	04	0051	0053	0056	S14	W04	.318	16401	3.7	5	-F	C	0053	20	.2	ZX	



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	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
PURP	05	0354	0408	0412	S16	E64	.916	16413	10.0	18	-N	C					
359 CULG	05	0341	0348	0400	N24	W36	.643	16398	2.5	19	?N	C	0348	240	3.1	L	ZX
		IMP.1 NO : PURP															
GRP79360	05	0507>9	0535+4	05530	S14	E57	.860	16413	9.5	46	1N						HL
CULG	05	0507	0539	0716U	S12	E52	.810	16413	9.1	1290	2N	C	0539	500	8.5	TLH	
PURP	05	0529	0535	0553	S16	E63	.909	16413	10.0	24	1N	C					
GRP79361	05	0525+3	0533+3	0553	N20	W42	.694	16398	2.1	27	1N						
CULG	05	0526	0533	0552	N20	W41	.682	16398	2.2	26	1N	C	0533	240	3.2		
PURP	05	0529	0536	0553	N20	W43	.705	16398	2.0	24	1N	C					
362 CULG	05	0552	0557	0605	S16	W03	.345	16401	5.0	13	-F	C	0557	80	.8	T	ZX
363 PURP	05	0722	0830	0834	S16	E62	.902	16413	10.0	72	-F	C					ZX
364 CULG	05	0728	0729	0735	S13	W03	.297	16401	5.1	7	-N	C	0729	70	.7		ZX
365 CULG	05	0749	0754	0757D	N18	W81	.985	16389	30.3	80	-N	C	0754	40		T	ZX
	05	0844	0910	NO FLARE PATROL													
366 MONT	05	0919	0921	0925	S14	E55	.843	16413	9.5	6	-N	C	0921	80		DH	ZX
	05	0920	1007	NO FLARE PATROL													
367 ABST	05	1010E	1041	1053D	S14	E57	.860	16413	9.7	43D	2F	P	1041	262	5.5	BFJ	ZX
368 ABST	05	1013	1015	1027D	N18	E20	.408	16406	6.9	14D	-F	P	1015	175	2.0	E	ZX
	05	1027	1032	NO FLARE PATROL													
369 ABST	05	1032	1051	1053D	N18	W80	.983	16389	30.4	21D	1F	P	1051	87		DJ	ZX
370 ABST	05	1038	1042	1047	S22	E20	.538	16412	6.9	9	-F	C	1042	157	1.9	E	ZX
371 ABST	05	1041	1043	1053	N13	W14	.284	16402	4.4	12	-N	C	1043	175	1.9	E	ZX
	05	1055	1103	NO FLARE PATROL													
372 LVOV	05	1213	1214	1226	S43	E23	.781		7.2	13	-N	C	1214	100	1.7	E	ZX
373 LVOV	05	1218	1222	1224	N03	E22	.374	16408	7.2	6	-F	C	1222	100	1.1		ZX
374 BIGB	05	1541	1542	1556	S15	W54	.836	16396	1.6	15	-F	C	1542	60	1.1		ZX
GRP79375	05	1736+4	1741+1	1752	S14	E49	.786	16413	9.4	16	1N						FH
HOLL	05	1400E	1741	1753	S14	E52	.815	16413	9.5	2330	19	* C		188			F 1
PALE	05	1736	1741	1750	S16	E49	.792	16413	9.4	14	1N	* C		117			F H
BIGB	05	1740	1742	1752	S13	E48	.773	16413	9.3	12	-N	* C	1742	40	.6		
GRP79376	05	1758+2	1806	1845	S14	E50	.796	16413	9.5	47	-N			60	1.0	H	
			1840+2														
HOLL	05	1758	1842	1856	S15	E56	.854	16413	9.9	58	-B	* C		63			F H
PALE	05	1800	1806	1822	S15	E53	.827	16413	9.7	22	-F	* C		39			
HUAN	05	1834E		1842D	S13	E46	.752	16413	9.2	80	-N	* P	1837	70	1.1	E	
BIGB	05	1836	1840	1847	S13	E47	.762	16413	9.3	11	-B	* C	1840	40	.6		
GRP79377	05	1802>9	1818+1	1915	N18	W45	.722	16398	2.4	73	-N			80	1.2	Z	
BIGB	05	1802	1818	1915	N22	W45	.733	16398	2.4	73	-N	C	1818	80	1.2		
HOLL	05	1805	1818	1919	N18	W44	.710	16398	2.5	74	1B	2 C		282			Z F
PALE	05	1814	1819	1855	N18	W45	.722	16398	2.4	41	-F	3 C		73			FDE
378 PALE	05	1820	1820	1824	N16	W82	.988	16389	30.6	4	-F	3 C					ZX
379 HOLL	05	1918	1919	1932	S12	E48	.770	16413	9.4	14	-B	* C		49			F H ZX
GRP79380	05	1935>9	1949+1	2020	S14	E50	.796	16413	9.6	45	-B			70	1.1	FH	
			2009														
PALE	05	1829	2009	2145	S14	E50	.796	16413	9.5	196	-B	* C		134			
HOLL	05	1935	1949	2020	S13	E50	.793	16413	9.6	45	-B	* C		90			F 1
BIGB	05	1948	1950	1958	S15	E51	.809	16413	9.7	10	-N	* C	1950	50	.8		
381 HOLL	05	1952	1954	2011	N20	E17	.391	16406	7.1	9	-N	2 C		31		F	ZX

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP79382	05	2029+0	2029 2036+4	2138	N18	E17	.371	16406	7.1	40	-B			170	1.8	H		
HOLL	05	2028	2036	2108	N20	E17	.391	16406	7.1	40	-B	3	C	184		DE		
PALE	05	2028	2029	2038	N16	E07	.239	16406	6.4	10	-F	3	C	36				
PALE	05	2036	2038	2046	N19	E18	.393	16406	7.2	10	-N	3	C	107				
CULG	05	2039E	2040U	2115	N18	E18	.383	16406	7.2	360	1B		C	2040	230	2.5	H	
GRP79383	05	2044+4	2048+1	2058	S22	E12	.477	16412	6.8	14	-N			160	1.8	L		
CULG	05	2044	2048	2058	S22	E12	.477	16412	6.8	14	-B		C	2048	160	1.8	L	
HOLL	05	2047	2049	2100	S20	E12	.450	16412	6.8	13	-B	3	C	165		DE		
PALE	05	2048	2049	2053	S23	E17	.525	16412	7.1	5	-F	3	C	51				
GRP79384	05	2045+2	2049+1	2107	N18	W44	.710	16398	2.6	22	-B			100	1.4			
CULG	05	2045	2050	2107	N18	W43	.699	16398	2.6	22	-B		C	2050	100	1.4		
HOLL	05	2046	2049	2145	N17	W44	.708	16398	2.6	59	-B	3	C	122				
PALE	05	2047	2049	2107	N18	W47	.744	16398	2.3	20	-N	3	C	71				
385 CULG	05	2052	2057	2102	S13	E69	.943	16415	11.0	10	-F		C	2057	20	.5	ZX	
386 CULG	05	2056	2059	2109	S32	E75	.983	16416	11.5	13	-N		C	2059	30		ZX	
387 HOLL	05	2059	2059	2104	S12	E49	.780	16413	9.5	5	-B	*	C	28		DE	ZX	
388 PALE	05	2112	2115	2127	N18	W47	.744	16398	2.4	15	-F	3	C	61			ZX	
GRP79389	05	2113+9	2148+3	2236	S14	E49	.786	16413	9.6	143	2B						EHLV	
CULG	05	2113	2116	2119	S14	E57	.860	16413	10.2	6	-F	*	C	2116	70	1.3	T	
HOLL	05	2117	2148	2339	S12	E48	.770	16413	9.5	142	2B	*	C	531			DE H	
PALE	05	2136	2149	2326	S14	E49	.786	16413	9.6	110	2B	*	C	462			F H	
CULG	05	2145	2151	2252	S14	E44	.734	16413	9.2	67	2B	*	C	2151	700	10.5	VHTL	
PALE	05	2149	2149	2153D	S14	E49	.786	16413	9.6	40	2B	*	C	535			FDE	
CULG	05	223E	2257	2334U	S16	E51	.812	16413	9.8	590	2N	*	C	2257	350	6.0	TL	
BIGB	05	2243	2250	2323	S15	E51	.809	16413	9.8	40	-B	*	C	2250	100	1.6		
VORO	05	2244E		2310D	S14	E46	.755	16413	9.4	26D	1N	*	P	2300	206	3.2	EH	
PALE	05	2327	2333	2337	S14	E48	.776	16413	9.6	10	-F	*	C	19			DE	
390 CULG	05	2130	2147	2158	S15	E89	1.000	16418	12.6	28	-F		C	2147	30		ZX	
391 PALE	05	2213	2213	2220	S22	E11	.471	16412	6.8	7	-F	3	C	30		DE	ZX	
392 CULG	05	2224	2232	2249	S17	E63	.911	16417	10.7	25	-F		C	2232	80	1.9	ZX	
393 BIGB	05	2244	2245	2251	S16	E90	1.000	16418	12.7	7	-N		C	2245	30		ZX	
GRP79394	05	2342+5	2347+1	2357	S14	E43	.723	16413	9.2	15	1B						HLV	
HOLL	05	2342	2348	2358	S14	E45	.745	16413	9.4	16	1B	3	C	235			DE H	
BIGB	05	2346	2347	2353	S14	E43	.723	16413	9.2	7	-B		C	40	.6			
CULG	05	2346	2347	2359	S14	E43	.723	16413	9.2	13	1B		C	2347	310	4.3	VLT	
PALE	05	2347	2347	2356	S15	E43	.727	16413	9.2	9	1B	3	C	235			F	
VORO	05	2348E		2356	S15	E44	.738	16413	9.3	80	1B		P	2349	143	2.1	DH	
395 PURP	05	2358E	2358	0016	S16	W12	.395	16401	5.1	8D	2N		P				ZX	
		IMP.1 NO :	PALE	CULG	BIGB	VORO												
396 VORO	06	0008	0008	0011	S13	E45	.740	16413	9.4	3	-N		C	0008	54	.8	D	ZX
GRP79397	06	0104+1	0108	0158	S15	E47	.769	16413	9.6	54	-N							EJ
PURP	06	0104	0130	0158	S16	E49	.792	16413	9.7	54	1N		C					
VORO	06	0105	0108	0124D	S15	E45	.748	16413	9.4	19D	-N		C	0108	90	1.4	EJ	
398 CULG	06	0154	0200	0214	N14	E74	.959		11.6	20	-F		C	0200	50		ZX	
399 PURP	06	0232E	0232	0235	S13	E45	.740	16413	9.5	3D	2N		C					ZX
		IMP.1 NO :	CULG	MITK														
GRP79400	06	0306+7	0317+6	0328D	S15	E47	.769	16413	9.7	22	2N							E
MITK	06	0306	0317	0328	S15	E46	.758	16413	9.6	22	1N		C	0317	150	2.3	ET	
PURP	06	0313	0323	0403	S15	E48	.779	16413	9.7	50	3B		C	944	15.0			
GRP79401	06	0407+6	0418+1	0436	S13	E42	.707	16413	9.3	29	1N							HL
CULG	06	0407	0419	0503U	S13	E43	.718	16413	9.4	56D	2N		C	0419	500	7.0	LHT	
MITK	06	0409	0418	0431	S12	E42	.703	16413	9.3	22	1N		C	0418	310	4.5	HT	
PURP	06	0413	0419	0431	S13	E42	.707	16413	9.3	18	1B		C					
PURP	06	0436	0440	0440D	S14	E53	.824	16413	10.2	4D	1N		P					

50  
Nov 79

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	MIN.	COND.	TYPE	TIME UT		MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.
					LAT.	MER. DIST.												
402	PURP	06 0511	0512	0521	N19	E11	.318	16406	7.8	10	1N	C				ZX		
403	PURP	06 0527 IMP.1 NO : MITK	0530	0541	S14	E39	.677	16413	9.2	14	?N	C				ZX		
404	ABST	06 0607 IMP.1 NO : PURP	0617	0640	S17	E90	1.000	16418	13.0	33	?F	C	0617	79		AD ZX		
405	ABST	06 0618 IMP.1 NO : PURP	0620	0623	S33	E70	.968	16416	11.5	5	?N	C	0620	87		D ZX		
406	ABST	06 0627	0629	0633	N13	W54	.816	16398	2.2	6	-F	C	0629	79	1.3	D ZX		
407	ABST	06 0627 IMP.1 NO : PURP	0631	0636	N34	E90	.999	16419	13.0	9	?F	* C	0631	79		ADJ ZX		
408	ABST	06 0633 IMP.1 NO : PURP	0636	0641	S17	E59	.862	16417	10.7	8	?F	C	0636	96	2.1	D ZX		
409	ABST	06 0649 IMP.1 NO : PURP	0653	0659	N33	E90	.999	16419	13.0	100	?F	P	0653	87		ADJ ZX		
410	ABST	06 0706E	0708	0730	S24	E07	.480	16412	6.8	240	-F	P	0708	87	1.0	DJ ZX		
GRP79411	CATA	06 0715	0715	0750	S14	E37	.654	16413	9.1	10	-B							
	PURP	06 0715	0715	0750	S14	E37	.654	16413	9.1	100	-B	* P	0715	140	1.9			
	PURP	06 0715E	0716	0716	S14	E38	.665	16413	9.2	1N	* P							
GRP79412	ABST	06 0739	0740+2	0811	S22	E06	.447	16412	6.8	32	-F					D		
	PURP	06 0739	0750	0823	S23	E05	.459	16412	6.7	44	-F	C	0750	87	1.0	D		
	PURP	06 0748E	0748	0758	S22	E08	.455	16412	6.9	100	1F	C						
GRP79413	ABST	06 0758+4	0815+7	0901	S15	E44	.737	16413	9.6	63	1N			750	5.1	IJKL		
	PURP	06 0678	0819	0909	S17	E41	.714	16413	9.4	1310	1N	* P	0819	306	4.4	FJKL		
	CATA	06 0758	0822	0841	S15	E48	.779	16413	9.9	43	1N	* C						
	KANZ	06 0803E	0815	0820	S15	E43	.726	16413	9.6	200	1N	* P	0815	281	4.2	T		
	HTRP	06 0802	0816	0816	S15	E44	.737	16413	9.6	140	1N	*						
	MONT	06 0828E	0825	0825	S13	E46	.751	16413	9.8	370	2N	* C	0840	450	5.3	EI		
	MONT	06 0845E	0845	0856	S14	E44	.733	16413	9.7	110	1N	* C	0845	250		B		
414	ABST	06 0818 IMP.1 NO : PURP	0831	0855	N24	E64	.904	16414	11.1	38	?N	C	0831	175	3.8	FJ ZX		
415	ABST	06 0843	0901	0909	S23	E05	.459	16412	6.7	260	-N	P	0901	87	1.0	D ZX		
GRP79416	ABST	06 0850+5	0855+1	0930	N34	E90	.999	16419	13.1	10	1N			70		ADJ		
	CATA	06 0855	0855	0900	N34	E90	.999	16419	13.1	5	1N	2 C	0855	56		ADJ		
GRP79417	ABST	06 0851+5	0855+4	0916	N18	W56	.834	16398	2.2	26	1N			230	4.3			
	MONT	06 0850	0856	0919	N18	W56	.834	16398	2.2	19	1B	* P	0856	279	4.9	F		
	HTRP	06 0851	0859	0916	N18	W66	.913	16398	1.4	25	1B	* C	0859	220				
	CATA	06 0854	0859	0915	N18	W71	.786	16398	2.5	22	-B	* C	0859	130	2.0	E		
	CATA	06 0855	0855	0915	N18	W56	.834	16398	2.2	20	1B	* C	0855	252	4.7			
GRP79418	CATA	06 1010+4	1010	1022	N32	E90	.999	16419	13.2	12	-N					E		
	CATA	06 1010	1010	1015	N33	E90	.999	16419	13.2	50	1N	1 P	1010	84				
	CATA	06 1010	1010	1015	N30	E90	.999	16419	13.2	50	-N	1 P	1010	28				
	MONT	06 1014	1017	1022	N33	E90	.999	16419	13.2	8	-N	C	1017	70		E		
419	MONT	06 1126	1128	1134	S15	E40	.693	16413	9.5	8	-N	C	1128	220		ZX		
GRP79420	MONT	06 1138	1141	1156	S17	E33	.594	16413	9.0	18	-N			80	1.0	E		
	HUAN	06 1138	1141	1156	S12	E33	.594	16413	9.0	18	-N	C	1141	110				
	HUAN	06 1144E	1144	1144	S13	E33	.600	16413	9.0	100	-N	2 P	1144	50	.6	E		
421	HUAN	06 1314	1316	1326	S15	E35	.636	16413	9.2	12	-N	1 C	1316	50	.7	ZX		
422	HTRP	06 1337	1339	1351	N18	E06	.264	16406	7.0	13	-F	C	1339	20	.2	E ZX		
GRP79423	HUAN	06 1349+1	1351+2	1403	S14	E39	.677	16413	9.5	14	-F			40	.5	E		
	HUAN	06 1349	1351	1400	S15	E35	.636	16413	9.2	11	-N	1 C	1351	40	.5	E		
	HTRP	06 1350	1353	1405	S13	E44	.725	16413	9.9	15	-F	C	1353	40	.6	E		

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST											
GRP79424	06	1359+6	1408	1439	S13	E48	.772	16413	10.2	40	-F			25	.4		
HTPR	06	1359	1408	1450	S14	E52	.815	16413	10.5	51	-F	C	1408	30	.4	E	
HUAN	06	1407		1426	S12	E45	.737	15413	10.0	23	-F	1 C	1407	20	.3	D	
GRP79425	06	1359+1	1400	1418	N17	W54	.814	16398	2.5	9	-F						
HTPR	06	1359	1400	1410	N18	W53	.806	16398	2.6	11	-F	* C	1400	20	.3	E	
HUAN	06	1400		1435	N17	W55	.824	16398	2.5	5	-F	* C				E	
GRP79426	06	1414+0	1417+2	1452	N18	W51	.786	16798	2.8	38	-N						
HUAN	06	1414	1417	1443	N18	W55	.825	16398	2.5	29	-N	2 C	1417	80	1.3	EI	
HTPR	06	1414	1419	1500	N19	W48	.757	16798	3.0	46	1N	C	1419	250	4.3	EI	
GRP79427	06	1445+2	1451+1	1524	S14	E38	.665	16413	9.5	39	-B			110	1.5	E	
HUAN	06	1445	1451	1521	S15	E34	.624	16413	9.2	36	-N	2 C	1451	70	.9	E	
HTPR	06	1447	1452	1526	S13	E43	.718	16413	9.8	39	1B	C	1452	150	2.1	E	
428 HUAN	06	1530		1537	N22	E08	.337	16406	7.2	7	-N	1 C				ZX	
GRP79429	06	1540+2	1542+3	1549	S14	E36	.642	16413	9.4	9	-N			40	.5		
BIGB	06	1540	1542	1549	S13	E36	.637	16413	9.4	9	-F	1		50	.6		
HUAN	06	1541	1543	1551	S15	E36	.647	16413	9.4	10	-N	2 C	1543	30	.4		
HTPR	06	1542	1545	1548	S14	E47	.765	16413	10.2	6	-N	C	1545	30	.5		
430 HUAN	06	1610	1614	1618	N28	E55	.844	16414	10.8	8	-F	1 C	1614	30	.6	ZX	
431 HUAN	06	1631		1647	S15	E80	.989	16418	12.7	12	-F	* C				ZX	
GRP79432	06	1631+3	1633+5	1715	S11	E32	.576	16413	9.1	44	-N			30	.4		
BIGB	06	1631	1633	1647	S12	E35	.619	16413	9.3	16	-F	1		25	.3		
HUAN	06	1634	1635	1641	S14	E36	.642	16413	9.4	7	-N	1 C	1635	40	.5		
BIGB	06	1638	1639	1715	S11	E30	.550	16413	8.9	37	-F	1		25	.3		
HUAN	06	1643		1717	S11	E30	.550	16413	8.9	34	-N	1 P	1651	30	.4		
433 HUAN	06	1645	1647	1649	N33	E90	.999	16419	13.4	4	-F	1 C	1647	20		D ZX	
434 HUAN	06	1736	1739	1744	S21	E61	.421	16412	6.8	8	-N	1 C	1739	40	.4	ZX	
GRP79435	06	1803+3	1826	1912	S15	E40	.693	16413	9.8	69	-N			80	1.1	E	
HUAN	06	1803		1922	S15	E40	.693	16413	9.8	79	-N	2 P	1855	65	.9	E	
BIGB	06	1823	1826	1848	S15	E40	.693	16413	9.8	25	-F	C	1826	40	.5		
BIGB	06	1852	1855	1912	S16	E40	.698	16413	9.8	20	-N	P	1855	100	1.3		
BIGB	06	1901	1922	1911	S15	E35	.626	16413	9.4	10	-B	C	1902	20	.7		
GRP79436	06	1957+7	2003+3	2020	S14	E38	.665	16413	9.7	32	?N						
CULG	06	1957	2003	2016	S13	E38	.660	16413	9.7	19	?N	P	2003	400	5.6	T	
BIGB	06	2004	2006	2042	S15	E39	.682	16413	9.8	38	-N	C	2006	50	.7		
437 BIGB	06	2007	2008	2028	S16	E78	.984	16418	12.7	21	-B	C	2008	20		ZX	
438 CULG	06	2047	2052	2117	S16	E79	.986	16418	12.8	30	-F	C	2052	60		ZX	
439 CULG	06	2055	2057	2106	S13	E33	.600	16413	9.3	11	-N	C	2057	80	1.0	FT ZX	
GRP79440	06	2117+L	2122+0	2152	S12	E28	.531	16413	9.0	40	-N					F	
CULG	06	2112	2122	2153	S12	E28	.531	16413	9.0	41	-N	C	2122	110	1.3	FT	
BIGB	06	2115	2122	2150	S12	E28	.531	16413	9.0	34	-N	C	2122	20	.2		
GRP79441	06	2138+3	2143+0	2214	S11	E37	.639	16413	9.7	36	-B					L	
CULG	06	2138	2143	2219	S11	E37	.639	16413	9.7	41	1B	C	2143	260	3.4	LT	
BIGB	06	2141	2143	2208	S11	E38	.651	16413	9.8	27	-N	C	2143	40	.5		
442 CULG	06	2211	2217	2224	S14	E29	.557	16413	9.1	13	-F	C	2217	40	.5	T ZX	
443 CULG	06	2231	2237	2313	S15	E30	.577	16413	9.2	42	-N	* C	2237	120	1.5	FK ZX	
444 CULG	06	2236	2244	2254	N21	E53	.811	15414	10.9	18	-F	C	2244	60	1.1	H ZX	
445 CULG	06	2309	2321	2358	S21	W03	.423	16412	6.7	49	?F	C	2321	240	2.6	ZX	
GRP79446	06	2310+9	2323+2	2340	S13	E28	.538	16413	9.1	30	-N						
MANI	06	2310	2325	2343	S12	E28	.531	16413	9.1	33	-N	* C		100			
CULG	06	2316	2324	2337	S13	E28	.538	16413	9.1	21	19	* C	2324	280	3.4	T	
BIGB	06	2320	2323	2331	S14	E29	.557	16413	9.1	11	-N	* P	2323	60	.7		



# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
447 CULG	06	2316	2335	2349	S35	E59	.924	16416	11.4	33	1N	C	2335	120	2.7	ZX	
448 CULG	07	0003	0019	0027	N28	E35	.844	16414	11.1	44	?N	C	0019	210	3.8	F ZX	
		IMP.1 NO :	PURP	VORO	MITK												
449 VORO	07	0022	0024	0027	S14	E31	.581	16413	9.3	5	-N	C	0024	27	.3	DJ ZX	
450 PURP	07	0028		0031	S13	E27	.524	16413	9.0	3	-N	P				ZX	
GRP79451	07	0044+1	0045+1	0051	S13	E27	.524	16413	9.1	7	-F					E4J	
	07	0044	0047	0053	S14	E27	.532	16413	9.1	9	-N	C	0047	99	1.2	HJ	
	07	0045	0045	0049	S13	E27	.524	16413	9.1	4	-F	C	0045			E	
GRP79452	07	0052+3	0103+1	0113	S16	E31	.595	16417	9.4	21	-N					E4J	
	07	0052	0103	0112	S17	E32	.613	16413	9.4	20	1N	C				E4J	
	07	0102	0104	0114	S16	E31	.595	16413	9.4	12	-N	C	0104	90	1.1	E4J	
453 CULG	07	0111	0115	0130	N23	E55	.833	16414	11.2	19	?F	C	0115	110	2.0	ZX	
		IMP.1 NO :	PURP	VORO	MITK												
454 HANI	07	0124E	0125	0127D	S13	E31	.574	16413	9.4	30	-N	3 C		40		E ZX	
GRP7945E	07	0153+5	0200+5	0226	S21	W02	.420	16412	6.9	33	-N			120	1.3	J	
	07	0153	0205	0229	S21	W01	.419	16412	7.0	76	-N	* C	0205	150	1.6		
	07	0156	0200	0214D	S20	W03	.406	16412	6.9	80	-F	* P	0200			E	
	07	0158	0202	0215	S21	E00	.419	16412	7.1	17	-N	* C	0202	99	1.1	DJ	
	07	0204E	0204	022F	S22	W03	.437	16412	6.9	22D	1N	* C					
456 CULG	07	0155	0206	0224	N24	E46	.751	16414	10.5	29	-F	C	0206	80	1.2	ZX	
457 CULG	07	0254J	0306	0337U	S14	E25	.508	16413	9.0	43D	?F	C	0306	600	7.8	LT ZX	
		IMP.2 NO :	PURP														
GRP79458	07	030E	0311	0319	S33	E56	.902	16416	11.3	13	-F						
	07	0306	0311	0323	S34	E56	.905	16416	11.3	17	-F	C	0311	60	1.4	T	
	07	0312E	0312	031F	S32	E56	.899	16416	11.3	30	-N	P					
459 CULG	07	0331	0338	0340D	N21	E53	.812	16414	11.1	90	-F	P	0338	60	1.0	ZX	
460 PURP	07	0347	0349	0410	S15	E35	.635	16413	9.8	32	?D	C		717	8.2	ZX	
		IMP.2 NO :	MITK														
461 PURP	07	0458E	0458	0458D	S15	E29	.564	16413	9.4		1N	P				ZX	
GRP79462	07	0512E		0540	S15	E33	.611	16413	9.7	28	1N						
	07	0512E	0521U	0521D	S15	E32	.600	16413	9.6	90	2N	P	0521	800	11.0	T	
	07	0524E	0524	0540	S15	E34	.623	16413	9.8	160	1N	P					
463 PURP	07	0610	0611	0624	S15	E30	.576	16413	9.5	14	1N	C				ZX	
GRP79464	07	0638	0641+1	0652	N13	W03	.251	16406	7.1	14	-N					DJ	
	07	0638	0641	0645	N18	W03	.251	16406	7.1	7	-N	C					
	07	0641E	0642	0658D	N19	W04	.271	16406	7.0	17D	-N	P	0642	131	1.4	DJ	
465 ABST	07	0641E	0645	0658D	S14	E30	.569	16413	9.5	17D	?N	P	0645	393	4.9	EJ ZX	
		IMP.1 NO :	PURP														
GRP79466	07	0641E	0645	0658D	S21	W00	.419	16412	7.3	17	-F					EJ	
	07	0641E	0645	0658D	S21	E02	.420	16412	7.4	17D	-F	P	0645	175	2.0	EJ	
	07	0641E	0645	0658D	S21	W02	.420	16412	7.1	17D	-F	P	0645	175	2.0	EJ	
467 ABST	07	0644E	0651	0658D	S15	E65	.921	16418	12.2	140	-F	P	0651	87		DJ ZX	
GRP79468	07	0710+4	0710+6	0723	N17	W70	.938	16398	2.0	13	-N						
	07	0710	0710	072F	N15	W68	.926	16398	2.2	15	-B	2 C	0710	56			
	07	0714	0716	0720	N19	W72	.950	16398	1.9	6	1F	C					
469 HTPR	07	0738E		0800	N18	W68	.927	16398	2.2	22D	-F	C	0747	20	.5	ZX	
GRP79470	07	0902+3	0905+1	0928	S21	W07	.434	16412	6.9	26	1N			240	2.6	E	
			0912														
	07	0902	0906	0927	S21	W06	.430	16412	6.9	25	-N	C	0906	220			
	07	0905	0905	0930D	S21	W07	.434	16412	6.9	25D	1B	1 P	0905	309	7.5		
	07	0905E		0920	S21	W07	.653	16412	6.9	15D	1N	C	0905	180	2.3	E	
	07	0910E	0912	0937D	S23	W13	.494	16412	6.4	27D	1B	1 C	0912	196	2.3		
	07	0913E		0928	S20	W07	.419	16412	6.9	15D	-N	1				B	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mil. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP79471	07	0917+7	0924+4	0936	S15	E24	.504	16413	9.2	19	-N			50	.6	E		
KANZ	07	0917	0928	0940	S15	E25	.516	16413	9.3	23	-N	1						
MONT	07	0923	0924	0927	S15	E26	.528	16413	9.3	4	-F		C	0924	50		E	
HTPR	07	0924	0931D	0931D	S14	E20	.448	16413	8.9	7D	-N		C	0925	40	.4		
ATHN	07	0925E	0927	0945D	S17	E23	.512	16413	9.1	20D	-B	1		0927	131	1.5		
472	ATHN	07	0943E	0944	1004D	S20	E6F	.928	16418	12.3	21D	-B	1	0944	33	1.2	ZX	
473	CATA	07	1005	1010	105F	S14	E17	.415	16413	8.7	50	-N	1	C	1010	112	1.3	ZX
474	KANZ	07	1051	1058	1106	N20	E49	.770	16414	11.1	15	-F	2				ZX	
475	KANZ	07	1055	1058	1106	S27	W11	.468	16412	6.6	11	-F	2				ZX	
476	ATHN	07	1150E	1152	1222D	N18	E68	.927		12.6	32D	-B	1	1152	33	1.2	ZX	
477	RAMY	07	1200	1201	120F	N17	W63	.892	16398	2.8	9	-F	3	C		36		ZX
GRP79478	07	1204+9	1249+1	1302	S21	W17	.448	16412	6.8	58	1N			190	2.1			
RAMY	07	1204	1249	1302	S21	W09	.443	16412	6.5	58	-B	3	C		167			
CATA	07	1245	1250	1250D	S21	W11	.454	16412	6.7	5D	1N	2	P	1250	224	2.6	T	
GRP79479	07	1205+0	1210+5	1228	S14	E23	.484	16413	9.2	23	-B			70	.8	E		
RAMY	07	1205	1214	1228	S14	E25	.508	16413	9.4	23	-B	3	C		64			
HTPR	07	1205	1215	1225	S14	E18	.426	16413	8.9	20	-B		C	1215	70	.7	E	
ATHN	07	1209E	1210	1240D	S14	E23	.484	16413	9.2	31D	-B	1		1210	66	.8		
480	RAMY	07	1208	1209	1240	N24	E44	.731	16414	10.8	32	-F	3	C		35		ZX
481	HTPR	07	1243	1250	1310	S20	W28	.593	16401	5.4	27	-N		C	1250	150	1.7	ZX
482	HTPR	07	1318	1320	1322	S14	E17	.415	16413	8.8	4	-F		C	1320	20	.2	ZX
GRP79483	07	1329	1339+1	1357	S15	E15	.406	16413	8.7	28	1N			190	2.1			
HTPR	07	1329	1339	1353	S14	E13	.374	16413	8.5	24	-F		C	1339	150	1.5		
ATHN	07	1339E	1340	1400D	S17	E17	.449	16413	8.8	21D	1B	1		1340	229	2.6		
484	RAMY	07	1455	1459	1507	S14	E63	.906	16418	12.3	11	-N	3	C		17		ZX
GRP79485	07	1508+2	1510+6	1527	S14	E19	.437	16413	9.1	10	-F			25	.3	E		
RAMY	07	1508	1510	1525	S14	E24	.496	16413	9.4	17	-N	3	C		22			
HTPR	07	1513	1516	1528	S14	E15	.394	16413	8.8	18	-F		C	1516	30	.3	E	
486	RAMY	07	1527	1528	1537	N17	W07	.257	16406	7.1	10	-N	3	C		27		ZX
	07	1642	1915	NO FLARE PATROL														
GRP79487	07	1937+2	1941+1	1957	S13	E23	.475	16413	9.5	20	-B			35	.4			
HOLL	07	1937	1941	1948D	S13	E24	.487	16413	9.6	11D	-B	*	C		19			
HOLL	07	1937	1941	1977	S13	E20	.438	16413	9.3	20	-B	*	C		19		DE	
RAMY	07	1939	1942	1944D	S14	E25	.508	16413	9.7	5D	-B	*	C		31		F	
488	RAMY	07	1938	1941	1949	N20	W09	.316	16406	7.1	11	-N	3	C		29		ZX
GRP79489	07	1945+0	1945+1	2026	N24	E41	.699	16414	10.9	41	-N			25	.4			
RAMY	07	1945	1945	2027	N24	E40	.689	16414	10.8	42	-N	3	C		24			
HOLL	07	1945	1946	2025	N25	E43	.725	16414	11.0	40	-N	3	C		27			
GRP79490	07	2000	2002	2036D	S13	E22	.462	16413	9.5	96	1B			260	2.9			
				2034+2														
RAMY	07	1939	2036U	2136D	S13	E20	.438	16413	9.3	117D	-B	*	C		213		FDE	
HOLL	07	2000	2034	2038C	S12	E20	.429	16413	9.3	38D	1B	*	C		196		DE	
HOLL	07	2000	2002	2004D	S13	E24	.487	16413	9.6	4D	-B	*	C		84		DE	
CULG	07	2034E	2034U	2047D	S14	E23	.484	16413	9.6	13D	1N	*	P	2034	380	4.2		
491	HOLL	07	2010	2011	2033	N31	E67	.930	16419	12.9	23	-N	3	C		15		ZX
492	RAMY	07	2016	2016	2036D	S15	E60	.885	16418	12.3	20D	-B	3	C		22		F ZX
	07	2038	2137	NO FLARE PATROL														
	07	2147	2230	NO FLARE PATROL														
493	MANI	07	2235E	2235U	2250D	N17	W75	.964	16398	2.3	15D	-F	2	C		20		ZX
GRP79494	08	0030	0032	0056	S14	E21	.459	16413	9.6	25	1B						F	
PURP	08	0030	0032	0046	S15	E22	.480	16413	9.7	16	1B		C					
MANI	08	0045E	0045U	0135D	S14	E21	.459	16413	9.6	20D	-F	3	V		100	1.1	F	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP79495	08	0114+3	0116+6	0152	N31	E71	.950	16419	13.4	38	1N						H
MANI	08	0114	0116	0155	N30	E69	.940	16419	13.2	31	1N	3	V		120	2.6	H
PURP	06	0117	0122	0159	N32	E73	.960	16419	13.5	42	1R		C				H
GRP79496	08	0149	0206+5	0220	S14	E16	.403	16413	9.3	31	-N						E
PURP	08	0149	0206	0226	S16	E16	.426	16413	9.3	37	1N		C				E
YUNN	08	0207E	0207	0220	S15	E18	.435	16413	9.4	130	1N		C		251	2.8	E
MANI	08	0207E	0208	0220	S13	E16	.391	16413	9.3	130	-N	7	V		50	.6	E
MITK	08	0208E	0211	0220	S13	E16	.391	16413	9.3	120	-N		C	0211			ET
497 PURP	08	0152	0206	0226	S17	E62	.903	16418	12.7	34	1N		C				ZX
496 YUNN	08	0234E	0234	0234D	S15	E15	.404	16413	9.2		-R		C		47	.5	ZX
GRP79499	08	0309	0315	0326	S19	E56	.862	16418	12.3	17	-N				40	.8	F
YUNN	08	0309	0315	0322	S21	E54	.851	16418	12.2	13	-N		C		47	.9	F
MANI	08	0317E	0317U	0330	S18	E58	.875	16418	12.5	130	-F	3	V		30	.5	F
GRP79500	08	0333+7	0337+7	0356	S14	E17	.413	16413	9.4	23	-N						EH
YUNN	08	0333	0340	0357	S15	E16	.426	16413	9.3	24	1B		C		361	4.0	TE
PURP	08	0334	0340	0355	S15	E18	.435	16413	9.5	21	1N		C				TE
MITK	08	0335	0337	0340	S13	E16	.391	16413	9.4	4	-N		C	0337			EHT
MANI	08	0340E	0340U	0357D	S14	E22	.471	16413	9.8	170	-F	7	V		15	.2	EHT
GRP79501	08	0339+7	0340+4	0354	N21	E40	.676	16414	11.2	15	-N						
PURP	08	0339	0344	0357	N21	E39	.665	16414	11.1	18	-N		C				
MANI	08	0340E	0340U	0354	N22	E41	.692	16414	11.2	140	-F	3	V		20	.2	
YUNN	08	0342	0344	0350	N21	E40	.676	16414	11.2	8	-N		C		63	.8	
GRP79502	08	0419+9	0431+5	0440	S15	E15	.404	16413	9.3	21	-N						D
PURP	08	0419	0436	0436D	S15	E18	.435	16413	9.5	170	-N		P				D
MITK	08	0430E	0431	0437	S13	E15	.360	16413	9.3	70	-N		C	0431			D
YUNN	08	0430	0434	0442	S15	E14	.395	16413	9.2	17	1R		C		314	3.4	D
GRP79503	08	0450	0459+1	0507	S18	E23	.520	16413	9.9	17	-F						
YUNN	08	0450	0500	0513	S19	E22	.520	16413	9.9	23	-F		C		31	.4	
PURP	08	0459E	0459	0500	S18	E25	.542	16413	10.1	10	-N		P				
504 YUNN	08	0507	0510	0518	S17	E51	.813	16418	12.0	10	-F		C		31	.5	ZX
505 YUNN	08	0534	0536	0542	N21	E40	.676	16414	11.2	8	-N		C		47	.6	ZX
506 YUNN	08	0544	0552	0607	S18	E57	.868	16418	12.5	23	-N		C		63	1.3	E ZX
507 YUNN	08	0615	0616	0619	S15	E15	.404	16413	9.4	4	-N		C		47	.5	ZX
GRP79508	08	0642+0	0642	0652	S15	E15	.404	16413	9.4	10	-N						
PURP	08	0642	0649	0652	S15	E16	.414	16413	9.5	10	-N		C				
YUNN	08	0642E	0642	0652	S15	E14	.395	16413	9.3	100	-R		C		173	1.9	
GRP79509	08	0735+1	0740+6	0800	S15	E10	.360	16413	9.1	25	-F				90	1.0	E
BUCA	08	0735	0746	0805	S15	E10	.360	16413	9.1	30	-N		C	0735	107	1.2	E
HTRP	08	0735	0746	0750	S15	E08	.346	16413	8.9	15	-F		C	0746	30	.3	E
YUNN	08	0736	0740	0756	S15	E18	.435	16413	9.7	26	-F		C		79	.9	E
HTRP	08	0740	0750	0800	S14	E05	.315	16413	8.7	20	-F		C	0750	10	.1	E
510 HTRP	08	0802	0803	0809	N22	E18	.428	16406	7.0	7	-N		C	0803	20	.2	ZX
GRP79511	08	0805+9	0813+1	0821	S14	E12	.363	16413	9.2	16	-R						
HTRP	08	0805	0814	0817	S14	E05	.315	16413	8.7	12	-R	*	C	0814	150	1.5	EI
KANZ	08	0809	0813	0817	S15	E13	.385	16413	9.3	8	-R	*					EI
ATHN	08	0811E	0822	1137	S15	E12	.377	16413	9.2	2040	1B	*		0822	229	2.5	
BUCA	08	0814	0824		S14	E14	.382	16413	9.4	10	1N	*	C	0815	322	3.6	
GRP79512	08	0826	0913+7	1139	S14	E14	.382	16413	9.4	193	2B				540	5.8	FIKZ
HTRP	08	0826	0920	1115	S14	E13	.372	16413	9.3	169	1B	*	C	0920	323	3.3	EFI
CATA	08	0830E	0913	1155	S13	E15	.380	16413	9.5	205D	2B	*	P	0913	518	6.9	Z
YUNN	08	0833E	0915	1055D	S14	E14	.382	16413	9.4	920	2B	*	C	0915	566	6.2	EFK
KANZ	08	0837		1139	S17	E12	.404	16413	9.3	182	2B	*					F
BUCA	08	0842		1014D	S14	E18	.424	16413	9.7	820	2N	*	C	0914	644	7.4	
513 HTRP	08	0920	0922	0950	N27	E38	.684	16414	11.2	30	-F		C	0922	20	.3	ZX



# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
541 YUNN	09	0105	0119	0150	S14	E07	.323	16413	9.6	45	-N	C		110	1.2	ET	7X	
GRP79542	09	0220	0225 0238	0252	S16	00	.335	16413	9.1	32	1N							
YUNN	09	0220	0225	0250	S16	W02	.336	16413	8.9	30	1B	C		204	2.3			
PURP	09	0237	0238	0254	S16	E01	.335	16413	9.2	17	1N	C						
GRP79543	09	0304+0	0306+0	0310	S15	00	.318	16413	9.1	14	1N							
YUNN	09	0304E	0306	0318	S15	W01	.319	16413	9.1	14	1N	C		290	3.1	Z		
PURP	09	0304	0306	0326	S16	E00	.335	16413	9.1	22	2N	C		642	6.8	Z		
PURP	09	0321	0326	0358	S14	E09	.337	16413	9.8	37	-N	C						
GRP79544	09	0504+7	0513+4	0528	S22	E41	.738	16418	12.3	24	-N							
YU IN	09	0504	0513	0523	S17	E41	.712	16418	12.3	19	-N	C		110	1.6			
PURP	09	0511	0517	0533	S27	E42	.774	16418	12.4	27	1N	C						
545 PURP	09	0513E	0513	0527	S14	W02	.303	16413	9.1	14	-N	C					ZX	
GRP79546	09	0546+2	0549+1	0558	S14	W02	.303	16413	9.1	12	1N							
YUNN	09	0546	0550	0555	S15	W03	.322	16413	9.0	9	1N	C		225	2.4			
PURP	09	0548	0549	0600	S14	W02	.303	16413	9.1	12	1N	C						
GRP79547	09	0600+1	0602+6	0629	S15	W03	.322	16413	9.0	29	1B			340	3.6	EJ		
ATHN	09	0600E	0602	0609	S15	W03	.322	16413	9.0	90	-B	1	0602	147	1.6			
YUNN	09	0600	0605	0621	S15	W03	.322	16413	9.0	21	1B	C		337	3.6			
PURP	09	0601	0608	0629	S14	W02	.303	16413	9.1	28	1B	C						
ABST	09	0601E	0606	0619	S14	W03	.306	16413	9.0	18	1N	P	0606	349	3.8	EJ		
TACH	09	0613E	0613	0630	S15	W03	.322	16413	9.0	17	-F	C	0513	124	1.4	E		
548 ABST	09	0604	0606	0610	N15	W71	.944	16402	3.9	150	-F	P	0606	87		D	ZX	
GRP79549	09	0804+3	0813+4	0853	S16	E39	.665	16418	12.3	49	-N			130	1.8	E		
ISTA	09	0804	0837	0837	S16	E40	.696	16418	12.3	33	1N	P				D		
HTFR	09	0805	0830	0900	S15	E38	.669	16418	12.2	55	-F	C	0830	50	.6	E		
BUCA	09	0805	0805	0900	S18	E40	.706	16418	12.3	55	-F	C	0822	107	1.6	E		
YUNN	09	0807	0813	0840	S17	E40	.701	16418	12.3	37	-N	C		129	1.8	E		
ABST	09	0808E	0813	0827	S17	E40	.701	16418	12.3	14	1N	P	0813	175	2.5	E		
ATHN	09	0814	0817	0956	S16	E36	.651	16418	12.6	102	-N	1	0817	99	1.3			
550 ABST	09	0808E	0814	0827	S21	W34	.661	16412	6.8	140	-F	P	0814	87	1.2	DJ	ZX	
551 ABST	09	0811E	0814	0827	N30	E55	.850	16419	13.5	110	-F	P	0814	79	1.4	DJ	ZX	
552 HTFP	09	0840	0847	0900	N30	E55	.850	16419	13.5	20	-F	C	0847	20	.3	E	ZX	
GRP79553	09	0924+1	0925+1	0934	S18	E07	.385	16413	9.9	14	-N							
HTPR	09	0924	0925	0940	S18	E07	.385	16413	9.9	16	-N	C	0925	50	.5	E		
YUNN	09	0925	0926	0935	S19	E07	.385	16413	9.9	10	1N	C		188	2.2			
554 YUNN	09	0935	0937	0946	N28	E52	.821	16419	13.3	11	-N	C		31	.6		ZX	
555 HTPR	09	0947	0950	0956	N16	W54	.814	16406	5.4	9	-N	C	0950	60	1.0	E	ZX	
GRP79556	09	1010+3	1014	1114	S15	E36	.645	16418	12.1	64	-F						EI	
HTPR	09	1010	1022	1110	S15	E37	.657	16418	12.2	60	-F	C	1022	50	.6	EI		
ATHN	09	1013	1014	1110	S16	E35	.639	16418	12.1	65	-N	1	1014	99	1.3			
GRP79557	09	1215	1234	1250	N24	W25	.524	16409	7.6	35	-F			100	1.2	E		
HTPR	09	1215	1234	1250	N24	W25	.524	16409	7.6	35	-F	C	1234	70	.8	E		
GATA	09	1240E	1240	1245	N24	W25	.524	16409	7.7	50	-N	1	P	1240	140	1.7		
GRP79558	09	1325E	1335	1340	N31	E51	.821	16419	13.4	15	-N						E	
HTPR	09	1325E	1335	1340	N30	E55	.850	16419	13.7	150	-N	C	1328	50	.9	E		
HTPR	09	1332	1335	1339	N32	E47	.792	16419	13.1	7	-F	C	1335	10	.2			
GRP79559	09	1400+2	1405	1428	N27	E16	.469	16414	10.8	28	-N							
HTPR	09	1400E	1405	1425	N27	E17	.478	16414	10.9	250	-N	C	1400	30	.3	B		
HOLL	09	1402	1405	1431	N28	E15	.474	16414	10.7	29	-N	3	C	81				
GRP79560	09	1417+1	1418+1	1432	N21	W31	.571	16406	7.3	15	-N			35	.4	E		
HTPR	09	1417	1419	1430	N23	W30	.573	16406	7.3	13	-N	C	1419	20	.2	E		
HOLL	09	1418	1418	1426	N21	W31	.571	16406	7.3	8	-N	3	C	53				
HOLL	09	1428	1429	1434	N19	W34	.597	16406	7.1	6	-N	3	C	26				

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
561 HOLL	09	1438	1456	1456	N32	E47	.792	16419	13.1	18	-B	3	C		63			ZX
GRP79562	09	1440	1448	1457	S17	E05	.361	16413	10.0	17	-B				45			
HOLL	09	1440	1448	1457	S17	E05	.361	16413	10.0	17	-B	3	C		58			
HTPR	09	1444E		1445D	S18	E05	.376	16413	10.0	10	-N		C	1445	30	.3		
	09	1502	1546	NO FLARE PATROL														
563 BIGB	09	1525	1628	1650D	N20	W39	.661	16406	6.7	89D	-F	1			25	.3		ZX
564 BIGB	09	1752E	1752E	1757	S11	W07	.278	16413	9.2	5D	-F	1						ZX
565 BIGB	09	1903	1906	1914	N12	W80	.983	16402	3.8	11	-N		C	1906	60			ZX
566 BIGB	09	1912	1913	1916	S16	E36	.651	16418	12.5	6	-N		C	1913	50	.6		ZX
GRP79567	09	1923+2	1931+1	2000	N33	E52	.836	16419	13.7	37	1B				200	3.7		FU
BIGB	09	1923	1932	2027	N33	E55	.859	16419	13.9	64	1B		C	1932	250	4.4		
BIGB	09	1923E		1951	N29	E51	.815	16419	13.6	28D	-N	1						
HOLL	09	1925	1931	1932D	N33	E53	.843	16419	13.8	7D	-B	3	C		152			U =
HOLL	09	1925	1931	2010	N33	E52	.835	16419	13.7	35	-B	3	C		152			U F
GPP79568	09	1926+0	1926+1	1931	S16	E03	.338	16413	10.0	=	-N							H
HOLL	09	1926	1926	1931	S15	E03	.322	16413	10.0	5	-N	3	C		95			H
BIGB	09	1926	1927	1930	S18	E03	.371	16413	10.0	4	-R		C	1927	40	.4		
GPP79569	09	1954+1	1956+2	2031	S19	W48	.791	16412	6.2	37	-N				90	1.5		
BIGB	09	1954	1958	2038	S19	W49	.801	16412	5.2	44	-B		C	1958	100	1.6		
HOLL	09	1955	1956	2023	S19	W48	.791	16412	6.2	28	-N	3	C		88			
570 BIGB	09	2019	2023	2058	N12	W80	.983	16402	3.8	39	-B		C	2023	50			ZX
GRP79571	09	2023	2045+8	2325	S20	W58	.880	16401	5.5	175	-N							F
			2154															
BIGB	09	2029	2053	2325	S21	W59	.887	16401	5.4	176	1B	*	C	2053	140	2.8		
HOLL	09	2035E	2045	2046D	S21	W57	.872	16401	5.6	110	-F	*	C		52			F
HOLL	09	2142E	2154	2213D	S22	W56	.869	16401	5.7	21D	-F	*	C		50			F
GRP79572	09	2029+3	2035+2	2115	N31	E44	.762	16419	13.2	46	-B				69	.9		F
BIGB	09	2029	2035	2115	N30	E45	.767	16419	13.2	45	-B		C	2035	50	.7		
HOLL	09	2032	2037	2046D	N33	E43	.763	16419	13.1	14D	-B	3	C		74			F
573 BIGB	09	2125	2130	2154	N22	W29	.554	16409	7.7	29	-B		C	2130	30	.4		ZX
574 BIGB	09	2132	2133	2142	N15	E31	.539		12.2	10	-B		C	2133	30	.4		E ZX
GRP79575	09	2134+8	2149+2	2254	N17	E58	.852	16421	14.2	80	1B							F
BIGB	09	2134	2149	2254	N16	E60	.858	16421	14.4	80	1B		C	2149	140	2.8		
HOLL	09	2142	2151	2153D	N18	E57	.844	16421	14.2	110	2N	3	C		454			F
GRP79576	09	2142+1	2143+0	2213	S15	W10	.359	16413	9.2	21	-B				80	.9		E
			2154+1															
BIGB	09	2142	2143	2145	S15	W10	.359	16413	9.2	3	-N		C	2143	30	.3		
HOLL	09	2143	2143	2151	S14	W03	.306	16413	9.7	8	-F	3	C		30			
HOLL	09	2143	2154	2213D	S15	W10	.359	16413	9.2	26D	-B	3	C		90			DE
BIGB	09	2154E	2155	2219	S15	W10	.373	16413	9.2	25D	-B		P	2155	80	.8		
577 BIGB	09	2229	2236	2248	N35	E46	.797	16419	13.4	19	-F		C	2236	70	1.0		ZX
578 BIGB	09	2259	2300	2310	S18	E00	.367	16413	10.0	11	-N		C	2300	10	.1		ZX
579 HOLL	09	2310	2313	2322	N32	E40	.732	16419	13.0	12	-F	2	C		25			ZX
580 BIGB	09	2312	2314	2316D	S14	E10	.345	16417	10.7	4D	-F				25	.3		ZX
581 HOLL	09	2323	2323	2342D	S22	W42	.747	16412	5.8	190	-F	2	C		27			ZX
582 YUNN	10	0105	0112	0125	S15	E06	.332	16417	10.5	20	-N		C		47	.5		ZX
583 YUNN	10	0300	0303	0314	S14	W10	.343	16413	9.4	14	-N		C		63	.7		ZX
GRP79584	10	0348+9	0402	0425	N25	E17	.455	16414	11.4	37	-N							
			0410															
CULG	10	0348	0402U	0406D	N26	E18	.476	16414	11.5	18D	-F	*	P	0402	90	1.0		
YUNN	10	0405	0410	0425	N24	E16	.434	16414	11.4	20	1N	*	C		204	2.3		
585 CULG	10	0353	0354	0358U	S15	E27	.537	16418	12.2	5D	-F		P	0354	90	1.1		ZX

58  
Nov 79

## H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
586 YUNN	10	0455	0457	0500	N24	W37	.658	16406	7.4	5	-B	C		142	1.9	ZX	
587 YUNN	10	0501	0512	0533	S15	W59	.877	16412	5.8	32	1N	C		177	3.7	ZX	
588 YUNN	10	0515	0517	0525	N10	E59	.856	16421	14.6	10	-N	C		31	.6	ZX	
589 CULG	10	0531E	0541	0614U	N22	W38	.659	16406	7.4	330	-F	P	0541	70	.9	ZX	
590 ABST	10	0603E	0606	0615D	S18	E30	.595	16418	12.5	120	-F	P	0606	157	2.0	EJ ZX	
591 ABST	10	0603E	0606	0615D	S16	W62	.901	16412	5.6	120	-F	P	0606	61		DJ ZX	
GRP79592	10	0616	0620 0631	0632	S18	W04	.371	16413	10.0	15	-N					FJ	
YUNN	10	0616	0620	0628	S18	W05	.375	16413	9.9	12	-N	C		63	.7		
ABST	10	0628E	0631	0635D	S18	W04	.371	16413	10.0	70	-F	P	0631	166	1.8	FJ	
GRP79593	10	0631+7	0641+4	0659	S15	W15	.402	16413	9.1	28	2B					FHIJKU	
CULG	10	0611	0641U	0747D	S16	W16	.424	16413	9.1	960	2B	* P	0641	800	8.8	FKIU	
ABST	10	0631E	0642	0716	S17	W17	.445	16413	9.0	450	2B	* P	0642	511	6.9	FJ	
YUNN	10	0633	0643	0655	S15	W16	.412	16413	9.1	22	2B	* C		404	2.8	H	
TACH	10	0638	0644	0654	S15	W15	.402	16413	9.2	16	1B	* C	0644	221	2.5	HUVZ	
MANI	10	0642E	0645	0650	S15	W13	.383	16413	9.3	80	1B	* V		200			
ABST	10	0642	0643	0647	S16	W06	.347	16413	9.8	7	-F	* C	0643	87	1.0	D	
594 ABST	10	0632E	0654	0714	S17	W63	.909	16412	5.5	420	2F	P	0654	175		FJK ZX	
		IMP.1	NO	YUNN	TACH	CULG											
GRP79595	10	0650+5	0657+3	0711	N22	E15	.400	16414	11.4	21	-N			70	.8	DJ	
CULG	10	0650	0700	0711	N23	E15	.412	16414	11.4	21	-F	C	0700	50	.5		
ABST	10	0654	0657	0729	N22	E15	.400	16414	11.4	35	-N	C	0657	96	1.1	DJ	
YUNN	10	0655	0657	0705	N22	E15	.400	16414	11.4	10	-B	C		94	1.0		
MANI	10	0657E	0657U	0702D	N23	E14	.403	16414	11.3	50	-F	2 C		40			
596 ABST	10	0659	0703	0714	N08	E57	.837	16421	14.6	15	2F	C	0703	175	3.3	EJ ZX	
		IMP.1	NO	YUNN	TACH	CULG											
GRP79597	10	0702+5	0712+0	0751	S15	W10	.357	16413	9.5	49	-N			180	1.9	EJ	
ABST	10	0702	0710	0851	S15	W13	.383	16413	9.3	109	-N	* C	0710	87	1.0	DJ	
ABST	10	0703	0712	0821	S15	W08	.343	16413	9.7	78	-N	* C	0712	183	2.0	FJ	
BUCA	10	0705		0855	S15	W12	.374	16413	9.4	60	1F	* C	0718	214	2.4	E	
YUNN	10	0707	0712	0736	S14	W10	.343	16413	9.5	29	1B	* C		188	2.0		
ISTA	10	0710E		0735	S16	W15	.343	16413	9.9	250	-N	* P				BE	
ISTA	10	0710E		0733	S15	W15	.402	16413	9.2	230	-N	* P				BE	
598 ABST	10	0713	0720	0729	N23	W39	.675	16406	7.4	15	-F	C	0720	96	1.3	DJ ZX	
599 ABST	10	0744E	0752	0803	N09	W80	.984	16402	4.3	190	2F	P	0752	87		DG ZX	
		IMP.1	NO	YUNN													
600 ABST	10	0807	0814	0831	N27	W36	.665	16406	7.6	24	-F	C	0814	87	1.2	EJ ZX	
601 YUNN	10	0820	0824	0830	S18	E28	.573	16418	12.4	10	-N	C		47	.6	ZX	
602 ABST	10	0824	0829	0852	S17	E02	.351	16417	10.5	28	-F	C	0829	87	1.0	DJ ZX	
GRP79603	10	0906+3	0911	0920	N32	E40	.733	16419	13.4	14	-F					D	
ISTA	10	0905		0923	N33	E41	.747	16419	13.5	17	-F	P				D	
YUNN	10	0909	0911	0916	N32	E39	.724	16419	13.3	7	-F	C		31	.4		
GRP79604	10	0913+3	0920	0924	N22	W39	.671	16406	7.5	11	-F					E	
ISTA	10	0913		0923	N22	W40	.682	16406	7.4	10	-F	P				E	
YUNN	10	0916	0920	0925	N23	W39	.675	16406	7.5	9	-N	C		63	.8		
605 ATHN	10	1201	1205	1241	S16	E25	.522	16418	12.4	40	-B	1	1205	114	1.4	ZX	
606 ATHN	10	1217	1220	1237	S15	W17	.422	16413	9.2	20	-B	1	1220	131	1.4	ZX	
GRP79607	10	1307>9	1307 1321	1404	N16	E49	.763	16421	14.2	57	1B						
RAMY	10	1307E	1307U	1424	N18	E49	.767	16421	14.2	770	1B	3 C		394		FDE	
ATHN	10	1317	1321	1355	N16	E50	.774	16421	14.3	38	1B	1	1321	212	3.3		
HUAN	10	1352E		1434D	N15	E47	.740	16421	14.1	140	1N	1 P	1358	210	3.3	E	
	10	1404	1520		NO FLARE PATROL												

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND TYPE	MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.										
GRP79608	10	1514+9	1528+2	1555	S16	W20	.465	16413	9.1	41	-B					
RAMY	10	1514	1528	1501	S17	W19	.466	16413	9.2	47	-B	* C	185		FDE	
BIGB	10	1524	1530	1549	S16	W21	.476	16413	9.1	25	-B	* C	1530	80	.9	
609 RAMY	10	1515	1548	1556	N13	E51	.780	16421	14.5	41	-N	3 C		22		ZX
610 BIGB	10	1526	1527	1540	S25	E12	.511	16416	11.5	14	-B	C	1527	50	.5	ZX
611 RAMY	10	1549	1549	1609	N31	E34	.672	16419	13.2	20	-N	3 C		23		ZX
GRP79612	10	1550+6	1555	1738D	S19	W68	.943	16412	5.6	78	1B					
BIGB	10	1550	1555	1708	S19	W70	.953	16412	5.4	78	-B	C	1555	80		
RAMY	10	1550	1606	1600D	S21	W67	.939	16412	5.6	190	1B	3 C		125		
HOLL	10	1556	1626	1803	S19	W68	.943	16412	5.6	127	1B	3 C		263		
613 HOLL	10	1601	1607	1620	N18	W47	.746	16406	7.1	19	-F	3 C		32		ZX
614 HOLL	10	1624	1624	1643	N18	W48	.757	16406	7.1	19	-F	3 C		21		ZX
615 RAMY	10	1630	1655	1700	S14	W14	.379	16413	9.6	30	-F	3 C		34		ZX
616 HUAN	10	1659	1700	1701	S18	E13	.422	16418	11.7	2	-F	1 C	1700	20	.2	D ZX
617 HUAN	10	1702		1720	S24	W40	.739	16410	7.7	200	-F	1 P	1708	20	.3	D ZX
618 HOLL	10	1716	1716	1726	S24	W51	.836	16412	6.9	11	-F	3 C		15		ZX
619 BIGB	10	1722	1724	1734	S19	W70	.953	16412	5.5	12	-N	C	1724	90		ZX
GRP79620	10	1751+2	1753	1816	S20	W57	.872	16412	6.5	25	-N			60	1.2	
RAMY	10	1751	1753	1817	S19	W68	.943	16412	5.6	26	-N	3 C		41		
BIGB	10	1753	1805	1822	S18	W60	.890	16412	6.2	29	1N	C	1805	160	3.2	
HUAN	10	1803	1805	1811	S23	W52	.840	16412	6.9	8	-N	1 C	1805	60	1.1	
HOLL	10	1803	1805	1814	S22	W55	.861	16412	6.6	11	-N	3 C		61		
GRP79621	10	1815+0	1816+2	1837	N10	E49	.755	16421	14.4	22	-N			45	.7	
HOLL	10	1815	1818	1829	N11	E47	.733	16421	14.3	14	-N	3 C		33		
BIGB	10	1815	1816	1845	N10	E51	.777	16421	14.6	30	-N	C	1816	60	1.0	
GRP79622	10	1827+4	1834+0	1932	S17	E22	.497	16418	12.4	35	-F			80	.9	E
HOLL	10	1827	1834	1901	S14	E18	.422	16418	12.1	34	-N	* C		76		
HUAN	10	1830		1845D	S17	E22	.497	16418	12.4	15D	-F	* P	1834	110	1.3	
BIGB	10	1831	1834	1903	S17	E25	.531	16418	12.6	32	-F	* C	1834	30	.3	
GRP79623	10	1828+2	1832+1	1853	S17	W20	.476	16413	9.3	25	-B					E
HUAN	10	1828	1832	1845C	S17	W23	.508	16413	9.0	17D	-N	2 P	1832	150	1.8	
RAMY	10	1830	1832	1873	S18	W20	.467	16413	9.3	23	-B	3 C		173		
HOLL	10	1830	1832	1846	S17	W25	.531	16413	8.9	16	1B	3 C		243		
BIGB	10	1830	1833	1858	S16	W22	.488	16413	9.1	28	-B	C	1833	50	.6	
RAMY	10	1830	1832	1834D	S14	W15	.389	16413	9.6	40	-R	3 C		173		
BIGB	10	1842	1843	1846	S18	W11	.407	16413	10.0	6	-F	C	1843	30	.3	
GRP79624	10	1828+3	1841	1925	S20	W59	.887	16412	6.3	57	-N					
HUAN	10	1828		1845D	S23	W58	.886	16412	6.4	17D	-F	* P				
BIGB	10	1831	1841	1925	S18	W60	.890	16412	6.3	54	1B	* C	1841	140	2.8	
625 BIGB	10	1912	1923	1934	N11	E51	.778	16421	14.6	22	-N	C	1923	30	.5	ZX
626 BIGB	10	1940	1942	1953	N23	E41	.697	16421	13.9	13	-N	C	1942	30	.4	ZX
627 HUAN	10	1941		1945	N22	W42	.704	16409	7.7	4	-F	1 C				ZX
GRP79628	10	2007+3	2011	2019	N22	E01	.319	16414	10.9	12	-F					
BIGB	10	2007	2011	2023	N19	E02	.254	16414	11.0	16	-F	C	2011	40	.4	E
HUAN	10	2010		2014	N27	E01	.400	16414	10.9	4	-F	1 C				
629 BIGB	10	2022	2024	2040	S19	W57	.867	16412	6.6	18	-B	C	2024	40	.8	ZX
GRP79630	10	2023+6	2026+6	2103	N22	E01	.319	16414	10.9	40	-F			50	.5	
BIGB	10	2023	2026	2107D	N27	E01	.400	16414	10.9	44D	-F	1		50	.5	
BIGB	10	2029	2032	2058	N18	E02	.254	16414	11.0	29	-N	* C	2032	60	.6	



60  
Nov 79

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST.											
GRP79631	10	2041+1	2056+5 2131+4	2222	S16	E16	.424	16418	12.1	101	-N		140	1.5	K		
BIGB	10	2041	2042	2057	S18	E11	.407	16418	11.7	16	-N	1	25	.3			
HOLL	10	2042	2131	2232	S14	E16	.400	16418	12.1	110	-R	3	182		DE		
BIGB	10	2048	2135	2217	S14	E20	.445	16418	12.4	79	-N	1	158	1.6	FK		
BIGB	10	2052	2056	2126	S15	E18	.433	16418	12.2	34	-N	C	2056	60	.7		
BIGB	10	2058	2101	2110	S18	E11	.407	16418	11.7	30	-N	1	37	.4			
CULG	10	2115E	2141	2240U	S17	E20	.476	16418	12.4	850	1N	P	2141	+20	4.6		
BIGB	10	2129	2132	2227	S15	E18	.433	16418	12.2	58	-R	C	2132	100	1.1		
CULG	10	215E	2152	2156	S18	E10	.400	16418	11.7	6	-N	C	2152	90	1.0		
632	BIGB	10	2058	2101	2109	S18	W12	.414	16413	10.0	11	-N	1	12	.1	ZX	
633	BIGB	10	2100	2105	2118	S24	W60	.902	16412	6.4	18	-B	C	2105	60	1.2	ZX
634	BIGB	10	2113	2115	21350	S18	W12	.414	16413	10.0	220	-N	1	33	.3	ZX	
GRP7963F	10	2145+1	2146+1	2151	S14	W21	.457	16413	9.3	6	-N		30	.3			
BIGB	10	2145	2147	2150	S14	W21	.457	16413	9.3	5	-N	C	2147	29	.2		
HOLL	10	2146	2146	2151	S14	W23	.480	16413	9.2	5	-N	3	34				
BIGB	10	2146	2147	22150	S16	W13	.396	16413	9.9	290	-N	1	25	.3			
GRP79636	10	2146+2	2148+1	2205	N18	W55	.826	16406	6.8	19	-F						
CULG	10	2146	2148	2207	N19	W55	.828	16406	6.8	21	1F	C	2148	160	2.9		
BIGB	10	2148	2149	2215	N18	W55	.826	16406	6.8	17	-N	C	2149	70	.8		
HOLL	10	2148	2148	2159	N17	W58	.852	16406	6.6	11	-F	3	17				
GRP79637	10	2147+4	2152+0	2202	N09	E49	.755	16421	14.6	15	-N						
CULG	10	2147	2152	2202	N09	E49	.755	16421	14.6	15	1N	* C	2152	150	2.3		
BIGB	10	2151	2152	2201	N09	E49	.755	16421	14.6	10	-N	* C	2152	60	.9		
638	CULG	10	2148	2153U	2216U	N17	E34	.680	16419	13.5	280	-F	C	2153	60	.8	ZX
639	BIGB	10	2156	2157	2204	S24	W60	.902	16412	6.4	8	-B	C	2157	20	.4	ZX
640	BIGB	10	2158	2158	2202	S11	W23	.455	16413	9.2	4	-F	*	15	.2	ZX	
GRP79641	10	2205+3	2207+4	2220	S18	W70	.952	16412	5.7	15	1N			110			
CULG	10	2205	2208	2220	S16	W70	.950	16412	5.7	15	1N	C	2208	140			
HOLL	10	2205	2207	2216	S20	W76	.978	16412	5.2	11	-N	3					
BIGB	10	2208	2211	2223	S18	W70	.952	16412	5.7	15	-B	C	2211	90			
642	CULG	10	2250	2252	2302U	N25	E09	.395	16414	11.6	120	-F	C	2252	30	.3	ZX
643	CULG	10	2259	2302U	2307U	S15	W26	.525	16413	9.0	80	-F	P	2302	40	.5	ZX
644	BIGB	10	2300	2302	2311	S18	E05	.394	16418	11.6	11	-F	1	25	.3	ZX	
645	BIGB	10	2304	2306	2323	N31	E31	.645	16419	13.3	19	-N	C	2306	20	.2	ZX
646	HOLL	10	2321	2323	2336	S15	E16	.402	16418	12.1	15	-N	3	60		ZX	
GRP79647	10	2323+5	2325+5	2339	S13	W24	.484	16413	9.2	16	-N						
BIGB	10	2323	2325	2339	S13	W23	.472	16413	9.2	16	-N	C	2325	30	.3	FK	
CULG	10	2327	2328	2355	S13	W24	.484	16413	9.2	28	-F	C	2328	180	2.0	FK	
HOLL	10	2328	2330	2338	S14	W24	.493	16413	9.2	10	-B	3	84				
648	CULG	10	2337	2343	2355U	S18	E09	.394	16418	11.7	180	-F	C	2343	50	.6	ZX
GRP79649	10	2340+1	2341+3	2356	S15	W22	.478	16413	9.3	16	-N			35	.4		
BIGB	10	2340	2341	2356	S16	W25	.522	16413	9.1	16	-B	* C	2341	40	.5		
HOLL	10	2341	2344	23440	S15	W20	.455	16413	9.5	30	-N	* C		29			
650	YUNN	11	0059	0100	0105E	S18	E06	.377	16418	11.5	6	-F	C	31	.3	ZX	
651	YUNN	11	0105	0106	0113	N31	E32	.655	16419	13.4	8	-F	C	31	.4	ZX	
652	YUNN	11	0126	0131	0200	S16	W66	.927	16412	6.1	34	-N	C	64		ZX	
GRP79653	11	0213+2	0218+6	0243	S15	E15	.400	16418	12.2	30	-N			120	1.3	E	
VORO	11	0213	0218	02380	S16	E17	.432	16418	12.4	250	-B	C	0218	134	1.5	E	
YUNN	11	0215	0224	0243	S15	E13	.381	16418	12.1	28	-N	C		113	1.2		
654	YUNN	11	0250	0253	0300	S22	W43	.755	16410	7.9	10	-N	C	63	.9	ZX	
655	YUNN	11	0403	0404	0433	S23	W45	.779	16410	7.8	30	-F	C	94	1.4	ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
656 YUNN	11	0404	0406	0420	S16	W70	.950	16412	5.9	16	-F	C		31			ZX
657 YUNN	11	0415E	0416	0420	S17	E10	.384	16418	11.9	40	-N	C		173	1.9		ZX
658 YUNN	11	0423	0426	0429	N22	W53	.815	16406	7.2	6	-N	C		47	.8		ZX
659 YUNN	11	0423	0426	0429	N31	E29	.628	16419	13.4	6	-N	C		47	.6		ZX
660 YUNN	11	0442	0448	0458	S15	E12	.372	16418	12.1	16	-F	C		79	.8		ZX
661 YUNN	11	0534	0536	0540	N24	W51	.802	16406	7.4	6	-N	C		63	1.0		ZX
GRP79662	11	0603+2	0608+9	0652	S17	W68	.940	16412	6.2	49	1N			150			F
YUNN	11	0603	0613	0654	S16	W67	.933	16412	6.2	51	1B			110			
ABST	11	0603	0609	0716	S17	W70	.951	16412	6.0	73	2N	C		314			F
MITK	11	0605	0608	0633D	S17	W67	.934	16412	6.2	280	1N	C	0609	130			F
ATHN	11	0608E	0609	0632	S17	W72	.974	16412	5.9	240	1B	C	0608	171	5.4		
CULG	11	0609E	0617	0711D	S17	W59	.946	16412	6.1	620	2N	P	0609	200			
ISTA	11	0615E		0648	S17	W66	.929	16412	6.3	330	-N	P	0617				BD
663 ABST	11	0612	0618	0653	N34	E39	.737	16419	14.2	41	-F	C	0616	87	1.3		DJ ZX
GRP79664	11	0620+2	0627	0707	S16	E13	.394	16418	12.2	47	-F						J
ABST	11	0620	0627	0732	S17	E14	.416	16418	12.3	72	1F	C	0627	271	3.0		FJ
YUNN	11	0622	0635	0707	S16	E11	.378	16418	12.1	45	-N	C		142	1.5		
ISTA	11	0635		0702	S16	E13	.394	16418	12.2	??	-F	P					E
GRP79665	11	0639+9	0650	0709	N28	W03	.420	16414	11.1	30	-F			110	1.2		
CULG	11	0639	0657U	0711D	N28	W03	.420	16414	11.1	320	-F	P	0657	110	1.2		
ABST	11	0640	0650	0743	N27	W02	.403	16414	11.1	63	1N	C	0650	210	2.4		F
YUNN	11	0648	0656	0707	N29	W03	.436	16414	11.1	19	-N	C		110	1.2		
ISTA	11	0655		0705	N29	W03	.420	16414	11.1	10	-F	P					D
666 ABST	11	0655	0700	0715	N09	W90	1.000	16402	4.5	20	?F	C	0700	87			AD ZX
IMP.1 NO : YUNN				CULG													
GRP79667	11	0727	0735	0744	S16	W28	.556	16413	9.2	17	-F						EJ
ISTA	11	0727		0740	S16	W27	.544	16413	9.3	13	-F	P					E
ABST	11	0730E	0735	0748	S16	W29	.568	16413	9.1	180	-N	P	0735	140	1.7		EJ
GRP79668	11	0745+1	0748+1	0802	S16	E09	.363	16418	12.0	17	-N			170	1.8		EJ
ABST	11	0745	0748	0850	S15	E10	.356	16418	12.1	65	1N	C	0746	253	2.8		EJ
ISTA	11	0745	0748	0756	S16	E10	.370	16418	12.1	11	-N	P					E
YUNN	11	0746	0749	0801	S17	E08	.372	16418	11.9	15	-B	C		173	1.8		
ATHN	11	0748E	0749	0812	S18	E08	.387	16418	11.9	140	-B	1	0749	49	.5		
669 ABST	11	0750	0755	0803	S23	W71	.961	16412	6.0	13	?F	C	0755	79			D ZX
IMP.1 NO : YUNN																	
670 ABST	11	0841	0844	0847	S21	W75	.975	16412	5.7	6	?F	C	0844	87			D ZX
IMP.1 NO : YUNN				CATA													
GRP79671	11	0856+3	0859+1	0913	N22	W55	.833	16406	7.2	17	1N			210	3.9		FJ
ABST	11	0856	0859	0913D	N22	W55	.833	16406	7.2	170	-N	P	0859	87	1.6		FJ
YUNN	11	0858	0900	0903	N24	W51	.802	16406	7.5	5	1N	C		209	3.6		
BUCA	11	0859		0926D	N22	W56	.842	16406	7.2	270	1N	C	0902	214	4.1		
672 ATHN	11	0901E	0902	0915D	N15	E45	.717	16421	14.8	140	-? 1		0902	147	2.1		ZX
GRP79673	11	0918+1	0920	0930	N27	W04	.406	16414	11.1	12	-F			130	1.4		
YUNN	11	0918	0920	0930	N28	W05	.425	16414	11.0	12	-N	C		157	1.7		
EUCA	11	0919		0926D	N27	W04	.406	16414	11.1	70	-F	C	0922	197	1.2		
674 YUNN	11	0944	0945	0959	N30	E27	.601	16419	13.4	15	-N	C		79	1.0		ZX
675 YUNN	11	0959E	0959	1000D	S22	W68	.946	16412	6.3	10	-N	P		47			ZX
676 FELV	11	1246	1248	1306	S12	W23	.462	16413	9.8	20	-B 3			98	1.1		UW ZX
677 RANY	11	1250E	1255	1307	N12	E37	.611	16421	14.3	170	-B 3	C					FDE ZX

62  
Nov 79

## H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.												
GRP79678	11	1300+2	1301+6	1337	S17	E04	.354	16418	11.8	37	-B						E	
ATHN	11	1301E	1301	1308D	S16	E02	.333	16418	11.7	80	-B	1	1301	21	.2			
TELV	11	1302	1307	1337D	S18	E12	.413	16418	12.4	350	1B	3		214	2.2			
HUAN	11	1306E		1322D	S16	E07	.351	16418	12.1	160	-N	2	P	1306	60	.6	E	
HUAN	11	1330E		1337	S19	E01	.360	16418	11.6	70	-N	2	P	1330	20	.2	D	
679 HUAN	11	1339		1345D	S25	W52	.846	16410	7.7	60	-N	1	P	1340	20	.4	D	ZX
	11	1400	1406	NO FLARE PATROL														
680 HOLL	11	1443	1443	1447	S15	E06	.330	16418	12.1	4	-F	3	C		21			ZX
681 HOLL	11	1458	1458	1512	S26	W55	.872	16412	7.6	14	-F	3	C		26			ZX
682 HOLL	11	1505	1506	1511	N17	E30	.537	16421	13.9	6	-B	3	C		104			ZX
683 HOLL	11	1510	1517	1521	S19	W24	.537	16413	9.8	11	-N	3	C		76			ZX
GRP79684	11	1517	1604	1629	S24	W52	.843	16410	7.7	72	-N							
HOLL	11	1517	1604	1635	S25	W51	.839	16410	7.8	78	-N	3	C		70			
HUAN	11	1533E		1622	S24	W54	.859	16410	7.6	490	-N	1	P	1612	40	.8		
GRP79685	11	1538+5	1541	1549	S15	E07	.335	16418	12.2	11	-F							
HOLL	11	1538	1541	1552	S16	E07	.351	16418	12.2	14	-N	3	C		62			
HUAN	11	1543		1546	S15	E07	.335	16418	12.2	3	-F	1	C					
GRP79686	11	1607+3	1613+3	1649	N17	W63	.893	16406	6.9	42	-R				50	1.1		E
HOLL	11	1607	1613	1649	N15	W64	.899	16406	6.9	42	-B	3	C		125			DE
BIGB	11	1609E	1616	1655D	N18	W60	.870	16406	7.2	460	-B		P	1616	50	1.0		
HUAN	11	1610		1647	N17	W63	.893	16406	6.9	37	-N	1	C	1615	50	1.1		E
687 HUAN	11	1615	1616	1627	S17	W16	.434	16417	10.5	5	-F	1	C	1616	25	.3		7X
688 HUAN	11	1634	1635	1636	S17	E05	.357	16418	12.1	2	-F	1	C	1635	40	.4		ZX
GRP79689	11	1648+3	1650+3	1723	S16	E05	.341	16418	12.1	35	-B							E
HUAN	11	1648	1652	1721	S16	E05	.341	16418	12.1	33	-N	2	C	1652	160	1.8		E
HOLL	11	1648	1650	1723	S17	E04	.354	16418	12.0	35	1B	3	C		262			DE
BIGB	11	1651	1653	1730	S16	E05	.341	16418	12.1	39	-B		C	1653	70	.7		
GRP79690	11	1728+3	1731+2	1742	S15	E09	.348	16418	12.4	14	-N				80	.9		EW
HOLL	11	1728	1731	1744	S15	E08	.342	16418	12.3	16	-B	*	C		119			
BIGB	11	1730E	1731U	1741	S15	E10	.356	16418	12.5	110	-F	1			75	.7		W
RAMY	11	1730E	1731	1742	S15	E08	.342	16418	12.3	120	-N	*	C		80			
HUAN	11	1731	1733	1736	S15	E11	.364	16418	12.6	5	-N	*	C	1733	40	.4		E
691 HOLL	11	1805	1807	1813	S24	W68	.948	16412	6.7	8	-N	3	C		25			ZX
GRP79692	11	1903	1904	1919	S10	W36	.619	16413	9.1	16	-N							W
BIGB	11	1903	1904	1919	S08	W36	.611	16413	9.1	16	-N	1			60	.7		W
HUAN	11	1908E		1909D	S12	W36	.628	16413	9.1	10	-F	1	P					
GRP79693	11	1930+1	1931+3	1947	S15	E05	.325	16418	12.2	17	-N				60	.6		
BIGB	11	1930	1931	1950	S15	E05	.325	16418	12.2	20	-N	1			60	.6		
HOLL	11	1931	1934	1943	S16	E05	.341	16418	12.2	12	-N	3	C		70			
694 BIGB	11	2115	2117	2134	S15	E05	.325	16418	12.3	19	-B		C	2117	50	.5		ZX
695 BIGB	11	2140	2142	2157	N31	E22	.568	16419	13.6	17	-N		C	2142	20	.2		ZX
696 BIGB	11	2141	2144	2150	S17	W89	1.000	16412	5.2	9	-R		C	2144	30			ZX
GRP79697	11	2157+4	2201+1	2220	S18	W28	.572	16413	9.8	23	-B				100	1.2		
CULG	11	2157	2201	2220	S16	W28	.555	16413	9.8	31	-N		C	2201	110	1.3		
BIGB	11	2201	2202	2220	S18	W27	.561	16413	9.9	19	-R		C	2202	40	.5		
HOLL	11	2201	2202	2213	S19	W28	.580	16413	9.8	12	-R	3	C		95			DE
698 CULG	11	2201	2211	2236	N23	E53	.818	16425	15.9	35	-F		C	2211	60	1.1		ZX
GRP79699	11	2223+9	2230+3	2312	N13	E37	.613	16421	14.7	46	-N							FW
			2250+2															
CULG	11	2223	2233	2323D	N14	E37	.616	16421	14.7	600	1N		P	2233	320	4.0		F
BIGB	11	2225	2230	2240	N17	E38	.639	16421	14.8	15	-N	1			100	1.3		FW
BIGB	11	2233	2252	2316D	N12	E39	.637	16421	14.9	430	-B		P	2252	40	.5		
HOLL	11	2237	2250	2317	N12	E30	.514	16421	14.2	30	-N	3	C		34			

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR AREA			
					LAT.	MER. DIST.												MILL of Disk	Sec. Deg.
GRP79700	11	2244+2	2259 2307	00300	N31	E20	.552	16419	13.4	76	-N								
GULG	11	2244U	2315	2323D	N31	E20	.552	16419	13.4	390	1N	P	2315	180	2.1				
SIGB	11	2246	2259	2300D	N29	E20	.529	16419	13.4	740	-N	1		100	1.0				
BIGB	11	2256	2307	2316D	N31	E20	.552	16419	13.4	200	-B		P	2307	40	.4			
GRP79701	11	2247+1	2249+0	2305	S14	E02	.300	16418	12.1	18	-N			45	.5				
BIGB	11	2247	2249	2304	S15	E02	.316	16418	12.1	17	-N		C	2249	40	.4			
HOLL	11	2248	2249	2305	S14	E02	.300	16418	12.1	17	-N	3	C		49				
GRP79702	11	2250+0	2250+5	2258	S23	W22	.965	16412	6.6	8	-F			45					
HOLL	11	2250	2255	2258	S24	W20	.958	16412	6.7	8	-F	3	C		25				
CULG	11	2250	2250U	2255D	S22	W25	.976	16412	6.3	5D	-F		P	2250	60				
703 CULG	11	2309E	2316U	2323D	S15	E03	.318	16418	12.2	140	?N		P	2316	300	3.3		ZX	
IMP.1 NO :			HOLL	BIGB															
704 VORO	12	0015	0019	0028	N29	E15	.492	16419	13.1	13	1F		C	0019	340	4.0	J	ZX	
GRP79705	12	0059	0109	0145	S14	E02	.298	16418	12.2	46	1N			390	4.1				
VORO	12	0059	0109	0143	S14	E03	.300	16418	12.2	44	1N		C	0109	439	4.7	E		
HITK	12	0105E		0147	S15	E02	.314	16418	12.2	42D	1N		C	0110	340	3.7	F		
GRP79706	12	0114	0116+5	0139	N31	E17	.531	16419	13.3	25	-N						J		
VORO	12	0114	0120	0139	N30	E16	.512	16419	13.3	25	-B		C	0120	161	2.0	EJ		
MANI	12	0115E	0115U	0132D	N32	E18	.550	16419	13.4	17D	1N	3	V		350		F		
GRP79707	12	0118+7	0128+1	0144	S17	W28	.563	16413	10.0	26	-N						H		
MANI	12	0118	0128	0132D	S16	W28	.555	16413	10.0	14D	-B	3	V		100	1.2			
VORO	12	0124	0129	0143	S17	W28	.563	16413	10.0	19	1N		C	0129	332	4.1	DH		
HITK	12	0125	0128	0144	S17	W29	.574	16413	9.9	19	-N		C	0128			EH		
708 VORO	12	0156E		0159	S18	W20	.952	16412	6.8	3D	-N		C	0156	54		D	7X	
709 CULG	12	0244E	0247U	0347	N20	E50	.783	16425	15.9	63D	?F		P	0247	220	3.5	F	ZX	
IMP.1 NO :			PURP	VORO															
710 CULG	12	0302J	0338	0424	N03	E33	.544	16421	14.6	82D	?F		C	0338	180	2.2	L	7X	
IMP.1 NO :			PURP																
711 YUNN	12	0510	0513	0530	N09	E34	.563	16421	14.8	20	-N		C		79	.9		ZX	
712 YUNN	12	0516	0519	0532	S15	E02	.314	16418	12.4	16	-N		C		31	.3		ZX	
713 YUNN	12	0532E	0532	0540	N25	W13	.425	16414	11.3	8D	-N		C		177	1.9		ZX	
714 YUNN	12	0623	0626	0640	N29	E15	.492	16419	13.4	17	-N		C		79	.9		ZX	
715 ISTA	12	0800		0805	S16	W14	.402	16418	11.3	5	-F		P				D	ZX	
GRP79716	12	0805+5	0816+2	0838	S15	W02	.314	16418	12.2	33	-N								
HPPP	12	0805	0816	0845	S15	W02	.314	16418	12.2	40	-N		C	0816	60	.6	EI		
TELV	12	0806	0817	0910	S16	W03	.333	16418	12.1	64	-B	3			147	1.5	EI		
YUNN	12	0807	0817	0835D	S16	W04	.336	16418	12.0	28D	1N		C		236	2.5	E		
KANZ	12	0810	0818	0835	S17	W02	.314	16418	12.2	25	-N	1							
ISTA	12	0810	0817	0828	S15	E01	.313	16418	12.4	18	1N		P				F		
GRP79717	12	0824+0	0828	0835	S12	W38	.652	16413	9.5	11	-N								
YUNN	12	0824	0828	0835	S11	W39	.660	16413	9.4	11	-N		C		47	.6	F		
ISTA	12	0824		0830D	S13	W38	.657	16413	9.5	6D	-N		P				F		
GRP79718	12	0845	0852+9	0910	N19	E13	.346	16421	13.3	25	-N								
HPPP	12	0845	0852	0910	N20	E13	.359	16421	13.3	25	-N		C	0852	40	.4	EGL		
ABST	12	0853E	0856	0901D	N19	E11	.327	16421	13.2	8D	-N		P	0856	131	1.4	E		
ABST	12	0853E	0856	0901D	N18	E14	.345	16421	13.4	8D	1F		P	0856	288	3.2	F		
KANZ	12	0900E		0917	N19	E12	.336	16421	13.3	17D	-N	2					GL		
YUNN	12	0900E	0901	0910	N18	E13	.334	16421	13.4	10D	-N		C		177	1.9	G		
GRP79719	12	0905+4	0910+0	0936	N25	W59	.937	16406	7.2	30	?N								
KANZ	12	0905	0910	0936	N25	W69	.938	16406	7.2	30	?N	1					A		
IMP.1 NO :			I4P.2															A	
CATA	12	0910	0910	0930D	N24	W70	.942	16406	7.1	20D	2N	1	P	0910	252				
GRP79720	12	0928+6	0937+3	0957	N29	E06	.445	16419	12.8	27	-N								
KANZ	12	0928	0937	0907	N29	E06	.445	16419	12.8	39	-N	2						E	
YUNN	12	0930	0940	0950	N28	E04	.424	16419	12.7	20	-N		C		129	1.4	E		
HPPP	12	0934	0938	0955	N31	E06	.475	16419	12.8	21	-N		C	0938	50	.6	E		

64  
Nov 79

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.			
					LAT.	NER. DIST.													
GRP79721	12	0947+3	0951+4	1011	S15	W06	.328	16418	12.0	24	-N								
HTPR	12	0947	0951	1016	S14	W07	.318	16418	11.9	23	-F	C	0951	45	.5				
KANZ	12	0949	0953	1011	S15	W06	.328	16418	12.0	22	-F	2							
CATA	12	0950	0955	10100	S15	W06	.328	16418	12.0	200	-B	2	P	0955	56	.6			
722	HTPR	12	1015	1015	1022	S21	W07	.425	16418	11.9	7	-F	C	1015	10	.1		ZX	
723	KANZ	12	1030	1058	1109	N27	W14	.459	16414	11.4	39	-N	2					F ZX	
GRP79724	12	1105+0	1112+2	1142	S16	W03	.333	16418	12.2	37	-N							E	
			1124																
KANZ	12	1105	1114	1138	S16	W02	.331	16418	12.3	33	-N	2						E	
MONT	12	1105	1112	1114	S15	W05	.339	16418	12.1	9	-N	C	1112	60				E	
MONT	12	1118	1124	11450	S16	W05	.339	16418	12.1	270	-N	C	1124	100				E	
GRP79725	12	1141+2	1143+1	1149	N11	E31	.525	16421	14.8	8	-F				35	.4		D	
HTPR	12	1141	1143	1148	N12	E28	.205	16421	14.6	7	-F	C	1143	20	.2				
MONT	12	1141	1144	11450	N11	E32	.540	16421	14.9	40	-F	C	1144	50				D	
KANZ	12	1143	1143	1150	N10	E31	.523	16421	14.8	7	-N	2							
GRP79726	12	1300+3	1310	1337	S21	W67	1.000	16412	6.0	37	-F							D	
KANZ	12	1300	1310	1347	S20	W85	.998	16412	6.2	47	-N	2						D	
HUAN	12	1303		1327	S22	W90	1.000	16412	5.8	24	-F	1	C	1310	25			D	
GRP79727	12	1312+3	1318+1	1322	N20	W69	.935	16406	7.4	10	-N				30				
HTPR	12	1312		13220	N20	W70	.940	16406	7.3	100	-F	C	1319	30	.7				
HUAN	12	1314	1319	1327	N20	W68	.929	16406	7.5	6	-N	1	C	1319	30				
KANZ	12	1315	1318	1329	N23	W69	.936	16406	7.4	14	-N	2							
728	HUAN	12	1335	1335	1338	S16	W34	.626	16413	10.0	3	-N	1	C	1335	20	.3	D	ZX
729	HUAN	12	1402	1404	1405	S20	W90	1.000	16412	5.8	3	-F	1	C	1404	15		D	ZX
730	KANZ	12	1402	1407	1421	N32	E12	.514	16419	13.5	19	-F	1					ZX	
731	HOLL	12	1543	1544	1551	S28	W74	.976	16412	7.1	8	-N	3	C				ZX	
GRP79732	12	1657+3	1658+3	1724	S17	W03	.349	16418	12.5	27	-F				40	.4		E	
BIGB	12	1657	1658	1739	S18	W02	.363	16418	12.6	42	-F	1			25	.3			
BIGB	12	1658	1659	1727	S18	W05	.371	16418	12.3	29	-F	1			20	.2			
HUAN	12	1659		1724	S17	W01	.346	16418	12.6	25	-F	1	C	1700	30	.3		E	
HOLL	12	1700	1701	1721	S17	W03	.349	16418	12.5	21	-N	3	C		37				
733	BIGB	12	1728	1729	1737	N29	E08	.452	16419	13.3	9	-N	1			33	.3		ZX
734	BIGB	12	1731	1732	1733	S14	W15	.387	16418	11.6	2	-F	1			30	.3		ZX
GRP79735	12	1734+1	1735	1737	S14	W04	.304	16418	12.4	3	-F								
BIGB	12	1734	1735	1737	S14	W05	.308	16418	12.4	3	-F	*			60	.6			
HUAN	12	1735		1736	S15	W04	.320	16418	12.4	1	-F	* C	1735						
GRP79736	12	1735+2	1737+1	17410	N09	E23	.401	16421	14.5	6	-N				70	.8		U	
BIGB	12	1735	1737	18150	N09	E23	.400	16421	14.5	400	-B	1			100	1.1		U	
HUAN	12	1737	1738	1741	N09	E24	.415	16421	14.5	4	-N	1	C	1738	45	.5			
737	BIGB	12	1827	1828	1848	S16	W43	.727	16413	9.5	21	-N	1			75	1.0		ZX
738	BIGB	12	1829	1830	1900E	S26	W67	.945	16410	7.7	310	-N	1			15	.4		ZX
739	BIGB	12	1900	1902	1956	N33	E55	.860	16426	16.9	56	-F	1			38	.7		ZX
740	HUAN	12	1910	1910	1912	N31	E06	.475	16419	13.2	2	-N	1	C	1910	40	.5		ZX
GRP79741	12	1936+5	1942+7	2105	N12	E24	.428	16421	14.6	89	28								FIUW
			2008																
BIGB	12	1936	1942	20560	N13	E27	.476	16421	14.8	800	19	1			200	2.3		WUF	
HUAN	12	1938		20420	N14	E25	.453	16421	14.7	640	2N	2	P	1949	450	5.2		E	
PALE	12	1940E	1949U	2100	N11	E22	.393	16421	14.5	800	29	3	C		497			U F	
BIGB	12	1940	1947	20560	N10	E20	.358	16421	14.3	760	-N	1			100	1.1		F	
HOLL	12	1941	1949	2105	N13	E24	.433	16421	14.6	84	28	3	C		510			U F	
CULG	12	2004E	2008	21060	N13	E27	.476	16421	14.9	620	28	28	P	2008	710	7.8		FI	
742	HOLL	12	1941	1942	1950	S15	W41	.701	16413	9.7	9	-F	3	C		23			F ZX
GRP79743	12	1943	1944	21060	N01	E32	.531	16424	15.2	83	-N								F
			2010																
BIGB	12	1943	1944	20560	S00	E32	.532	16424	15.2	730	-N	1			75	.9			F
CULG	12	2004E	2010U	21060	N02	E33	.544	16424	15.3	620	-N		P	2010	120	1.4			

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP79744	12	2015	2018 2038	2058	S15	W16	.409	16418	11.6	42	-N						
CULG	12	2016	2018	2058	S14	W14	.377	16418	11.8	42	-N	C	2018	120	1.3		
CULG	12	2037	2038	2041	S16	W18	.441	16418	11.5	4	-N	* C	2038	30	.3		
745 CULG	12	2018	2022	2036	N21	E74	.961		18.4	18	-F	C	2022	20			ZX
GRP79746	12	2214+9 2312	2230+6 2312	2337	N24	E37	.660	16425	15.7	83	1N			210	2.8	F	
HOLL	12	2214	2231	2334	N25	E37	.665	16425	15.7	80	1N	3 C		317			F
PALE	12	2227	2239	2236D	N23	E37	.655	16425	15.7	9D	1N	3 C		150			F
BIGB	12	2234E	2236U	2337	N24	E37	.660	16425	15.7	63D	1B	P	2236	210	2.7		
CULG	12	2258E	2312U	2353	N24	E37	.660	16425	15.7	55D	-F	P	2312	140	1.8		F
747 HOLL	12	2225	2227	2236	N33	E08	.511	16419	13.5	13	-F	3 C		46			F ZX
748 CULG	12	2343	2348	2351	S16	W19	.452	16418	11.6	8	-N	C	2348	40	.4	H	ZX
749 CULG	12	2345	2347	2356	N33	E52	.838	16426	16.9	11	-F	C	2347	30	.6		ZX
750 CULG	13	0000	0002	0008	S29	W18	.486	16418	11.7	8	-F	C	0002	40	.5		ZX
751 CULG	13	0025	0029	0042	S22	W65	.929	16410	8.1	17	?N	C	0029	80	2.0		ZX
		IMP.1	NO : PALE	PURP													
GRP79752	13	0043	0047	0052	S17	W19	.462	16418	11.6	9	-N						H
CULG	13	0043	0047	0054	S18	W20	.483	16418	11.5	11	-N	C	0047	100	1.2		H
PURP	13	0049E	0049	0050	S17	W19	.462	16418	11.6	10	1N	C					
GRP79753	13	0106+5	0120+0	0143	N23	W85	.995	16406	6.7	37	-N						
CULG	13	0106	0120	0154	N24	W88	.999	16406	6.4	48	1N	C	0120	80			
PALE	13	0111	0120	0131	N23	W83	.991	16406	6.8	20	-F	2 C					
754 CULG	13	0146	0201	0350	N23	E47	.762	16426	16.6	124	?N	C	0201	140	2.0		ZX
		IMP.1	NO : PALE	PURP													
755 CULG	13	0155	0201	0209	S18	W20	.483	16418	11.6	14	-N	C	0201	60	.7	H	ZX
756 CULG	13	0208	0213	0245	S25	W71	.962	16410	7.8	37	?N	C	0213	120			ZX
		IMP.1	NO : PALE	PURP													
757 CULG	13	0258	0305	0316	S10	W56	.841	16413	8.9	18	?N	C	0305	140	2.7		ZX
		IMP.1	NO : PALE	PURP	MITK												
758 CULG	13	0309	0324	0333	S11	E70	.946	16430	18.4	24	-F	C	0324	40			ZX
GRP79759	13	0317	0325+0	0330	S17	W21	.483	16418	11.6	13	-N						H
CULG	13	0317	0325	0334	S18	W21	.493	16418	11.6	17	-N	C	0325	80	.9		H
PURP	13	0325E	0325	0326	S17	W21	.483	16418	11.6	10	1N	P					
760 CULG	13	0400	0414	0455	S26	W08	.502	16418	12.6	55	?F	C	0414	250	2.8		ZX
		IMP.1	NO : PURP	MITK													
761 CULG	13	0411	0413	0419	S15	W44	.733	16413	9.9	8	-F	C	0413	20	.3		ZX
GRP79762	13	0418+2	0423+2	0430	N30	E04	.457	16419	13.5	12	-N						
CULG	13	0418	0425	0436	N30	E05	.459	16419	13.6	18	-N	C	0425	160	1.8		
PURP	13	0420	0423	0424	N31	E04	.472	16419	13.5	4	1N	C					
763 CULG	13	0553	0612	0652	S28	W80	.992	16412	7.2	59	?N	C	0612	260			ZX
		IMP.2	NO : PURP	MITK	ABST												
GRP79764	13	0610+4	0620+4	0722	N13	E41	.665	16425	16.3	72	-F			90	1.2		DJ
CULG	13	0610	0624	0722	N13	E41	.665	16425	16.3	72	-N	C	0624	90	1.3		
ABST	13	0614	0620	0643D	N14	E42	.680	16425	16.4	29D	-F	P	0620	87	1.2		DJ
GRP79765	13	0623+2	0627+2	0635	S18	W22	.504	16418	11.6	12	-F			80	.9		DMJ
CULG	13	0623	0629	0637	S18	W22	.504	16418	11.6	14	-N	C	0629	80	.9		H
ABST	13	0625	0627	0633	S18	W23	.515	16418	11.5	8	-F	P	0627	87	1.0		DJ
766 ABST	13	0746	0748	0752	S18	W23	.515	16418	11.6	6	-F	P	0748	87	1.0	D	ZX
GRP79767	13	0844	0906+5	1011D	S16	W16	.419	16418	12.2	87	-F			100	1.1		EJ
MONT	13	0844	0911	1011D	S15	W17	.418	16418	12.1	87D	-N	C	0911	80			E
ABST	13	0859E	0904	0911D	S15	W19	.440	16418	11.9	12D	-F	P	0904	87	1.0		DJ
ABST	13	0859E	0906	0911D	S18	W12	.410	16418	12.5	12D	-F	P	0906	131	1.5		EJ

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CNR. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	WER. DIST											
768 ABST	13	1607E	1007	1010	S17	W49	.792	16413	9.7	30	-N	P	1007	87	1.4	D	ZX
769 RAMY	13	1130E	1135U	1158	N21	W78	.977	16406	7.6	280	-N	3 C					ZX
GRP79770	13	1518E	1522 1540	1547	N19	W87	.998	16406	7.1	29	1B						Y
HOLL	13	1518E	1522U	1541	N19	W90	1.000	16406	6.9	230	1B	3 C					
RAMY	13	1535E	1540U	15520	N19	W85	.995	16406	7.3	170	-B	3 C					Y
771 BIGB	13	1827	1829	1841	S25	W60	.991	16410	7.8	14	-N	C	1829	60		A	ZX
772 BIGB	13	1944	1946	1948	N37	E34	.720	16426	16.4	4	-N	C	1946	20	.2		ZX
GRP79773	13	2127+1	2129+1	2135	S18	W31	.604	16418	11.6	8	-F			25	.3		H
CULG	13	2127	2130	2136	S18	W32	.615	16418	11.5	9	-F	C	2130	30	.4		H
BIGB	13	2128	2129	2133	S19	W30	.600	16418	11.6	5	-N	C	2129	20	.2		
774 CULG	13	2200	2203	2215	S13	W55	.838	16413	9.8	15	-F	C	2203	30	.5	K	ZX
775 BIGB	13	2203	2204	2232	S18	E16	.444	16423	15.1	29	-N	C	2204	30	.3		ZX
776 CULG	13	2215	2218	2230	N22	E07	.343	16421	14.5	15	-N	C	2218	100	1.0		ZX
777 CULG	13	2248	2253	2312	S18	W33	.626	16418	11.5	14	-N	C	2253	60	.8	H	ZX
778 CULG	13	2322	2332	2345	S12	W61	.887	16413	9.4	23	-F	C	2332	70	1.5	F	ZX
779 CULG	13	2329	2333	2339	S18	W33	.626	16418	11.5	10	-F	C	2333	40	.5	H	ZX
GRP79780	14	0030+1	0034+0	0037	S19	W32	.621	16418	11.6	7	-N						H
CULG	14	0030	0034	0036	S18	W33	.625	16418	11.5	6	-N	C	0034	40	.5		H
PURP	14	0031	0034	0037	S20	W32	.628	16418	11.6	6	-N	C					
GRP79781	14	0033+4	0039+2	0112	S18	E10	.394	16423	14.8	39	-N						FS
CULG	14	0033	0041	0125	S18	E10	.394	16423	14.8	57	-N	C	0041	140	1.5		SF
PURP	14	0037	0039	0058	S18	E10	.394	16423	14.8	21	-N	C					
782 CULG	14	0104	0110	0120	S12	W22	.446	16418	12.4	16	-N	C	0110	80	.9		7X
783 CULG	14	0108	0117	0140	N12	E04	.171	16421	14.3	32	-N	C	0117	80	.8		ZX
GRP79784	14	0109+9	0114 0127+0	0144	N34	W01	.515	16419	14.0	35	1N						FH
CULG	14	0109	0114	0128	N30	W06	.463	16419	13.6	19	-N	C	0114	140	1.6	H	
CULG	14	0110	0127	0157	N36	E01	.545	16419	14.1	47	1N	C	0127	280	3.2	F	
PURP	14	0125	0127	0130	N35	E01	.530	16419	14.1	5	1N	C					
785 CULG	14	0134	0149	0201	S16	W31	.589	16418	11.7	27	-N	C	0149	90	1.1		ZX
GRP79786	14	0230+5	0235+1	0246	S19	W33	.632	16418	11.6	16	-N						HU
CULG	14	0230	0235	0247	S18	W34	.637	16418	11.6	17	-B	C	0235	80	1.0		H
PURP	14	0233	0236	0245	S19	W32	.621	16418	11.7	12	1N	C					
PALE	14	0235	0236	02370	S19	W33	.632	16418	11.6	20	-F	3 C		30			U H
787 YUNN	14	0439	0440	04410	S15	W31	.582	16418	11.9	20	-N	C		110	1.3		ZX
788 CULG	14	0505	0510	0515	S16	W34	.624	16418	11.7	10	2N	C	0510	200	2.5	HFT	ZX
		IMP.1 NO	MITK	PURP	YUNN												
789 CULG	14	0543	0545	0551	N31	E31	.649	16426	16.6	8	-N	C	0545	40	.5	H	ZX
GRP79790	14	0544	0551	0600	S18	E11	.401	16423	15.1	16	-N			50	.5		
CULG	14	0544	0551	0610	S18	E11	.401	16423	15.1	26	-F	C	0551	60	.7		
YUNN	14	0552E	0552	0600	S19	E09	.402	16423	14.9	80	-N	C		47	.5		
PURP	14	0552E	0552	0600	S18	E12	.403	16423	15.1	80	-N	C					
791 PURP	14	0715	0726	0728	S12	W82	.992		3.2	13	1N	C					ZX
792 HUAN	14	1343E		13440	N33	W12	.531	16419	13.7	10	-N	1 P	1344	35	.4	E	ZX
793 HOLL	14	1520E	1524	15400	N17	W90	1.000	16408	7.9	200	-N	3 C					ZX
794 HUAN	14	1526	1529	1534	S21	W31	.625	16418	12.3	8	-F	1 C	1529	15	.2	D	ZX
GRP79795	14	1545+1	1557	1626	N20	E21	.448	16425	16.2	41	-F						E
BIGB	14	1545	1557	16180	N20	E23	.472	16425	16.4	330	-N	P	1557	70	.8		
HUAN	14	1546		1626	N20	E20	.437	16425	16.2	40	-F	1 C					E

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP79796	14	1617+6	1625	1638	N35	W05	.535	16419	14.3	21	-F			35	.4	E	
HUAN	14	1617		1636	N35	W06	.537	16419	14.2	19	-F	1	C	1626	40	.5	E
BIGB	14	1623	1625	1639	N35	W05	.535	16419	14.3	16	-N		C	1625	30	.3	
GRP79797	14	1929+7	1931+5	1945	N14	E17	.343	16425	16.1	16	-F						
BIGB	14	1929	1931	1945	N14	E18	.357	16425	16.2	16	-N	*	C	1931	120	1.3	
HOLL	14	1936	1936	1945	N14	E16	.330	16425	16.0	9	-F	*	C		24		
798 BIGB	14	1930	1931	1935	S34	E25	.693	16433	16.7	5	-N		C	1931	30	.3	ZX
GRP79799	14	2014+0	2015+1	2028	N14	E00	.191	16421	14.8	14	-F				50	.5	
BIGB	14	2014	2016	2030	N14	E00	.191	16421	14.8	16	-N		C	2016	50	.5	
HOLL	14	2014	2015	2025	N14	W01	.192	16421	14.8	11	-F	3	C		60		
GRP79800	14	2023+1	2025+3	2110	N33	W15	.547	16419	13.7	47	1B				350	4.2	
BIGB	14	2023	2028	2110	N34	W15	.559	16419	13.7	47	1B		C	2028	260	2.8	
HOLL	14	2024	2027	2109	N33	W16	.553	16419	13.7	45	1B	3	C		356		DE
PALE	14	2024	2025	2046	N32	W13	.522	16419	13.9	22	1B	3	C		205		DE
PALE	14	2024	2025	2030	N31	W18	.541	16419	13.5	60	1B	3	C		205		DE
CULG	14	2034E	2034U	2113	N33	W14	.541	16419	13.8	390	2N		P	2034	470	5.6	FB
GRP79801	14	2033+3	2036+2	2041	N25	W50	.797	16414	11.1	8	-F				25	.4	
BIGB	14	2033	2036	2041	N25	W50	.800	16414	11.1	8	-F		C	2036	30	.5	
HOLL	14	2036	2038	2040	N25	W51	.806	16414	11.0	4	-F	3	C		20		
802 BIGB	14	2046	2050	2105	N23	E89	.999	16437	21.5	19	-N		C	2050	20		ZX
803 CULG	14	2107E	2107U	2112	S33	E24	.676	16433	16.7	50	-N		C	2107	40	.6	ZX
GRP79804	14	2116+0	2118+2	2134	N35	W09	.546	16419	14.2	18	-N				110	1.3	
BIGB	14	2116	2118	2142	N35	W10	.549	16419	14.1	26	-B		C	2118	180	1.0	
CULG	14	2116	2120	2126	N36	W09	.560	16419	14.2	10	-N		C	2120	120	1.4	
805 CULG	14	2118	2121	2126	S13	W43	.714	16418	11.7	8	-F		C	2121	100	1.4	ZX
806 CULG	14	2237	2243	2254	S36	E25	.713	16433	16.8	170	-F		P	2243	30	.4	K ZX
GRP79807	14	2246+0	2248+4	2306	S15	W41	.700	16418	11.9	20	-N				110	1.5	
BIGB	14	2246	2249	2341	S15	W40	.688	16418	11.9	55	-N		C	2249	110	1.5	
CULG	14	2246	2252	2254	S14	W43	.718	16418	11.7	80	2N		P	2252	420	5.9	F
HOLL	14	2246	2248	2306	S16	W42	.715	16418	11.8	20	-N	3	C		123		F
PALE	14	2248E	2250U	2300	S16	W39	.682	16418	12.0	170	-F	2	C		80		DE
	14	2354	2357		NO FLARE PATROL												
	15	0023	0030		NO FLARE PATROL												
808 YUNN	15	0030	0046	0100	S16	W37	.658	16418	12.2	30	1B		C		225	3.0	E ZX
809 YUNN	15	0304	0309	0332	S11	W36	.621	16418	12.4	28	-N		C		63	.8	ZX
GRP79810	15	0454+1	0455+5	0505	S13	W46	.747	16418	11.8	11	-N						E
CULG	15	0454E	0455	0507	S13	W47	.758	16418	11.7	130	1N		P	0455	260	3.9	
YUNN	15	0455	0500	0503	S14	W46	.750	16418	11.8	8	-F		C		96	1.4	E
811 CULG	15	0456	0506	0507	N33	E20	.580	16426	16.7	110	-F		C	0506	30	.4	ZX
GRP79812	15	0537	0538	0539	S14	W77	.979	16413	9.6	2	-N						
YUNN	15	0537	0538	0539	S13	W74	.966	16413	9.7	2	-N		C		47		
PURP	15	0538E	0538	0538	S16	W80	.988	16413	9.2		1N		P				
GRP79813	15	0741+8	0745	0808	S14	W48	.771	16418	11.7	27	1N						EHU
			0754														
YUNN	15	0741	0745	0811	S13	W47	.758	16418	11.8	30	1B		C		274	4.2	H
TACH	15	0749	0754	0815	S15	W50	.795	16418	11.6	16	1N		C	0754	221	3.6	EU
814 HTPR	15	1357	1405	1440	N34	W23	.613	16419	13.9	43	-N		C	1405	50	.6	E ZX
815 BIGB	15	1617	1628	1705	N24	E76	.971	16437	21.4	48	-N		C	1628	30		ZX
	15	1642	1646		NO FLARE PATROL												
GRP79816	15	1642+9	1654+2	1717	N33	W26	.626	16419	13.7	35	-B				120	1.5	U
BIGB	15	1642	1656	1758	N32	W27	.624	16419	13.7	76	-B		C	1656	110	1.3	
HOLL	15	1651	1654	1717	N34	W25	.628	16419	13.8	26	-B	2	C		125		UDE
817 BIGB	15	1712	1724	1741	N24	E76	.971	16437	21.4	29	-N		C	1724	30		ZX



# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CHP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
818 BIG8	15	1929	1932	1951	N32	E22	.584	16426	17.5	22	-F	C	1932	40	.4	ZX		
GRP79819	15	2021+1	2023+5	2142	N10	W14	.269	16421	14.8	81	1B					I		
PALE	15	2021	2023	2025D	N09	W16	.293	16421	14.6	4D	1B	3	C		356		DE	
BIG8	15	2022	2025	2142	N08	W12	.225	16421	14.9	80	1B		C	2025	330	3.5		
CULG	15	2023E	2028	2116D	N12	W14	.286	16421	14.8	53D	3B		P	2028	1300	13.5	CFI	
BIG8	15	2115	2116	2137	N12	W17	.328	16421	14.6	22	-N		C	2116	30	.3		
GRP79820	15	2122+9	2140+9	2340	N29	W35	.673	16419	13.3	138	2B						FHIK	
CULG	15	2107U	2159	2256+4	N28	W38	.696	16419	13.0	219D	2B		C	2159	740	9.6	FKI	
BIG8	15	2122	2149	2353D	N29	W38	.702	16419	13.0	151D	2B		P	2149	430	5.6		
PALE	15	2131	2140U	2140D	N28	W36	.675	16419	13.2	90	1B	3	C		168		F	
PALE	15	2131	2140U	2236	N31	W31	.650	16419	13.6	65	1B	3	C		168		F	
BIG8	15	2250	2256	2326	N36	W27	.662	16419	13.9	36	-B		C	2256	60	.7		
PALE	15	2255	2300	2308	N31	W31	.650	16419	13.6	13	-N	3	C		76		F H	
821 PALE	16	0114	0116	0119	S15	W53	.823	16418	12.1	5	-F	3	C		32		F ZX	
822 PALE	16	0124	0124	0131	S15	W53	.823	16418	12.1	7	-F	3	C		24		F ZX	
823 CULG	16	0150	0152	0159	N12	W28	.488	16421	14.0	9	-N		C	0152	130	1.5	H ZX	
824 CULG	16	0220	0224	0244	N18	W05	.276	16425	15.7	24	-F		C	0224	70	.7	F ZX	
	16	0335	0341	NO FLARE PATROL														
825 CULG	16	0702	0710	0721	S22	E28	.600		18.4	19	-F		C	0710	80	1.0	ZX	
826 CULG	16	0751	0758	0812	S19	W56	.841	16418	12.1	21	-F		C	0758	60	1.2	ZX	
827 HTPR	16	0919	0923	0930	N32	E05	.494	16426	16.8	11	-F		C	0923	40	.5	ZX	
828 HTPR	16	0935	1005	1045	N18	W05	.276	16425	16.0	70	2N		C	1005	550	5.5	EI ZX	
829 ATHN	16	1013E		1015D	N27	E07	.425	16426	17.0	2D	-N	1			114	1.3	ZX	
830 HTPR	16	1047	1050	1056	N20	E01	.297	16425	16.5	9	-F		C	1050	20	.2	E ZX	
831 KANZ	16	1147	1150	1157	N22	E64	.906	16427	21.3	1D	-F	1					ZX	
832 KANZ	16	1200	1204	1209	N30	E02	.459	16426	16.7	9	-F	1					ZX	
833 HTPR	16	1249	1300	1395	N21	E02	.315	16426	16.7	16	-F		C	1300	50	.5	E ZX	
834 KANZ	16	1316		1323	S21	E82	.994	16439	22.7	7	-N	1					ZX	
835 HTPR	16	1450	1458	1506	S33	E01	.584	16433	16.7	16	-N		C	1458	70	.8	E ZX	
836 BIG8	16	1556	1558	1606	S19	W67	.935	16418	11.6	10	-N		C	1558	30		ZX	
837 BIG8	16	1751	1756	1805	S29	E90	1.000	16439	23.5	14	-N		C	1756	30		ZX	
GRP79838	16	1840+4	1842+3	1850	N29	W02	.443	16426	16.6	10	-N				40	.4	E	
BIG8	16	1840	1842	1850	N29	W01	.443	16426	16.7	10	-B		C	1842	20	.2		
HOLL	16	1841	1842	1849	N29	W02	.443	16426	16.6	8	-N	3	C		52			
HUAN	16	1844	1845	1852	N28	W02	.428	16426	16.6	8	-N	2	C	1845	50	.6	E	
GRP79839	16	1857+3	1858+3	1914	N34	00	.519	16426	16.8	17	-B				40	.5		
BIG8	16	1857	1858	1901D	N34	E01	.519	16426	16.9	4D	-B		P	1858	30	.3		
HOLL	16	1858	1858	1914	N34	W01	.519	16426	16.7	16	-B	3	C		51			
PALE	16	1859	1859	1914	N35	W01	.534	16426	16.7	15	-B	3	C		50		F	
HUAN	16	1900	1901	1921	N33	E00	.504	16426	16.8	21	-N	2	C	1901	25	.3	D	
840 HUAN	16	1919	1920	1924	S71	W08	.568	16433	16.2	5	-F	1	C	1920	25	.3	D ZX	
841 HUAN	16	1943E		1947	S08	W36	.609	16422	14.1	4D	-F	1	P				ZX	
GRP79842	16	2014+9	2036	2102	N33	W02	.505	16426	16.7	48	-F						HK	
CULG	16	2014	2036	2112	N33	W03	.506	16426	16.6	58	-N		C	2036	120	1.4	FKTH	
HUAN	16	2047	2047	2052	N33	W02	.505	16426	16.7	5	-F	1	C	2047	25	.3	D	
843 CULG	16	2023	2030	2043	S05	W38	.626	16422	14.0	20	-F	*	C	2030	60	.8	ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.		
					LAT.	NER. DIST.												
GRP79844	16	2024+5	2032+4	2058	S33	00	.584	16433	16.8	34	-N							
CULG	16	2024	2036	2059	S32	W02	.571	16433	16.7	35	1N	C	2036	230	2.8		FT	
HUAN	16	2029	2032	2056	S35	E01	.612	16433	16.9	27	-N	1 C	2032	60	.8		E	
GRP79845	16	2030>9	2139+0	2217	S10	W47	.749	16418	13.3	107	1N							HIKLU
CULG	16	2030	2150	0026	S08	W47	.744	16418	13.3	236	2N	* C	2150	750	10.5		LFINK	
HUAN	16	2055		2138	S15	W48	.774	16418	13.3	13	-F	* C	2057	25	.4		D	
PALE	16	2132	2139	2221	S12	W48	.765	16418	13.3	49	-F	* C		79			UDE	
BIGB	16	2139E	2139U	2212D	S09	W45	.724	16418	13.5	33D	1B	* P	2139	170	2.5			
846 HUAN	16	2040	2050	2102	N21	W12	.369	16425	16.0	22	-N	2 C	2050	25	.3		D ZX	
847 CULG	16	2116	2120	2127	N31	W04	.477	16426	16.6	11	-N	C	2120	80	.9		T ZX	
848 CULG	16	2120	2123	2142	S32	W68	.582	16433	16.3	22	-F	C	2123	80	1.0		T ZX	
849 CULG	16	2135	2144	2217	N24	W13	.418	16425	15.9	42	?N	C	2144	380	4.2		FL ZX	
		IMP.1 NO :	HOLL	PALE	BIGB													
GRP79850	16	2152+4	2200+5	2211	N23	E60	.878	16437	21.4	19	-F							F
CULG	16	2152	2205	2215	N23	E61	.886	16437	21.5	23	-N	C	2205	60	1.2			
PALE	16	2155	2200	2206	N24	E60	.880	16437	21.4	10	-F	3 C		22			F	
GRP79851	16	2156+5	2158	2208	S20	E83	.995	16439	23.1	12	-F							AF
PALE	16	2156	2158	2204	S20	E81	.991	16439	23.0	8	-F	3 C		7			F	
BIGB	16	2201	2212U	2212D	S20	E85	.998	16439	23.3	11D	-N	P	2212	50			A	
852 CULG	16	2200	2202	2210	N33	W05	.509	16426	16.5	10	-N	C	2202	120	1.3		HT ZX	
853 CULG	16	2212	2215	2223	S20	W70	.952	16418	11.7	11	-F	C	2215	30			ZX	
854 CULG	16	2224	2233	2256	N30	W05	.464	16426	16.6	32	-N	C	2233	100	1.1		FKT ZX	
855 CULG	16	2332	2336	0006	S13	W74	.966	16418	11.4	34	?N	C	2336	200			ZX	
		IMP.1 NO :	PALE	VORO														
856 CULG	16	2333	2341	2353	S31	W07	.565	16433	16.5	20	-F	C	2341	60	.8		T ZX	
857 CULG	16	2349	2353	2359	S18	W58	.873	16418	12.6	10	-N	* C	2353	70	1.4		ZX	
858 PALE	16	2356	2357	2359	S20	E81	.991	16439	23.1	3	-F	3 C					DE ZX	
GRP79859	17	0020+2	0022+2	0029	N33	W02	.506	16426	16.9	9	-N							D
CULG	17	0020	0024	0036	N36	W02	.551	16426	16.9	16	-N	C	0024	140	1.7			
PALE	17	0022	0022	0026	N30	W04	.464	16426	16.7	4	-F	3 C		21			DE	
VORO	17	0022	0024	0029	N33	W02	.506	16426	16.9	7	-N	C	0024	63	.8		D	
GRP79860	17	0115+5	0120+5	0129	N23	E57	.855	16437	21.3	14	-F							DH
VORO	17	0115	0120	0126	N23	E58	.863	16437	21.4	11	-F	C	0120	50	1.0		DH	
PALE	17	0119	0121	0134	N23	E57	.855	16437	21.3	15	-N	3 C		43	.9		DH	
HANI	17	0120	0125	0129D	N25	E56	.851	16437	21.3	9D	-F	3 C		50			DE	
GRP79861	17	0118+2	0122+1	0131	S01	W28	.473	16424	15.0	13	-F							D
CULG	17	0118	0123	0135	S01	W28	.473	16424	15.0	17	-N	C	0123	180	1.2			
VORO	17	0120	0122	0126	S02	W28	.475	16424	15.0	6	-F	C	0122	63	.7		D	
862 CULG	17	0130	0154	0215	N30	W06	.469	16426	16.6	45	-F	C	0154	80	.9		H ZX	
863 CULG	17	0133	0135	0144	S18	W59	.880	16418	12.6	11	-F	C	0135	50	1.1		ZX	
GRP79864	17	0220+5	0232>9	0327	N30	W46	.781	16419	13.6	67	1N							S
CULG	17	0220	0254	0324	N32	W50	.822	16419	13.3	134	2N	C	0254	430	6.9		FS	
VORO	17	0222	0236	0300	N31	W47	.794	16419	13.6	38	1F	C	0236	152	2.6		E	
YUNN	17	0224	0248	0343	N27	W45	.760	16419	13.7	79	1N	C		129	2.2			
PALE	17	0225	0241	0310	N29	W46	.777	16419	13.7	45	1N	2 C		238			FDE	
HANI	17	0229E	0245	0250D	N31	W45	.777	16419	13.7	21D	1N	2 V		180	2.8			
HANI	17	0229E	0232U	0250D	N31	W45	.777	16419	13.7	21D	-N	2 C		100			F	
GRP79865	17	0538	0542	0636	S31	W10	.573	16433	16.5	60	1F							E
TACH	17	0536	0542	0638	S32	W09	.583	16433	16.6	62	1F	C	0542	274	3.5		E	
CULG	17	0600U	0614	0633	S31	W12	.581	16433	16.4	33D	1F	C	0614	240	3.0		T	
866 HTPR	17	0735	0741	0750	S33	W09	.597	16433	16.6	15	-F	C	0741	30	.3		ET ZX	

70  
Nov 79

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
867 HTPR	17	0755	0757	0812	S03	W39	.635	16422	14.4	7	-F	C	0757	10	.1	ZX	
868 HTPR	17	0804	0809	0815	N24	E45	.748	16436	20.7	11	-F	C	0809	20	.3	ZX	
869 HTPR	17	0823	0849	1000	S32	W15	.608	16433	16.2	97	-N	C	0849	80	.9	E ZX	
870 HTPR	17	0836	0836	0841	N28	W09	.451	16476	16.7	5	-F	C	0836	20	.2	ZX	
871 HTPR	17	1033	1040	1058	S32	W16	.613	16433	16.2	25	-F	C	1040	20	.2	E ZX	
872 HTPR	17	1055	1109	1200	N26	W38	.686		14.6	65	-F	C	1109	20	.3	ZX	
873 HTPR	17	1130	1136	1200	S32	W17	.619	16433	16.2	30	-N	C	1136	150	1.7	E ZX	
874 HTPR	17	1145	1200	1230	N14	W17	.346	16425	16.2	45	-B	C	1200	130	1.3	E ZX	
875 HTPR	17	1216	1225	1230	S07	W50	.775	16422	13.8	14	-N	C	1225	50	.7	ZX	
GRP79876	17	1415+2	1422+4	1510	S32	W14	.603	16433	16.5	55	1N					E	
WEND	17	1415	1422	1458	S31	W14	.590	16433	16.5	43	1N	C	1422	228	2.8	E	
HTPR	17	1417	1426	1510	S32	W18	.624	16433	16.2	53	-N	C	1426	100	1.1	E	
HUAN	17	1429E		1523	S32	W13	.599	16433	16.6	540	1N	1 P	1431	160	2.0	CE	
877 HUAN	17	1529		1536	S04	W34	.568	16424	15.1	7	-F	1 C	1533	25	.3	D ZX	
878 HUAN	17	1603	1512	1620	S19	W32	.618	16423	15.3	17	-F	1 C	1612	25	.3	D ZX	
879 HUAN	17	1615		17020	S09	W47	.746	16422	14.2	470	-F	1 P	1641	40	.6	ZX	
880 HUAN	17	1635		17020	S33	W13	.612	16433	16.7	270	-N	2 P	1637	120	1.6	E ZX	
	17	1702	1731		NO FLARE PATROL												
GRP79881	17	1837+0	1838+2	1905	S09	W49	.768	16422	14.1	28	-F			45	.-	FU	
HOLL	17	1837	1838	1910	S10	W49	.771	16422	14.1	33	-N	3 C		44		U =	
PALE	17	1837	1840	1910	S09	W49	.768	16422	14.1	23	-F	3 C		46			
882 PALE	17	1842	1849	1853	S33	W15	.621	16433	16.7	11	-F	3 C		93		F ZX	
883 HOLL	17	1906	1906	1927	S03	W39	.635	16424	14.9	21	-F	3 C		25		ZX	
GRP79884	17	1912+1	1913+0	1923	S07	W50	.775	16422	14.0	11	-F			20	.3	F	
HOLL	17	1912	1913	1929	S07	W51	.786	16422	14.0	17	-F	3 C		24			
PALE	17	1913	1913	1916	S07	W50	.775	16422	14.1	3	-F	3 C		19		F	
885 PALE	17	1929	1949	1955	N10	W42	.674	16421	14.7	26	-F	3 C		34		F ZX	
886 PALE	17	1930	1945	1956	S07	W50	.775	16422	14.1	26	-F	3 C		38		F ZX	
887 PALE	17	2000	2009	2013	S07	W50	.775	16422	14.1	13	-F	3 C		33		F ZX	
888 PALE	17	2030	2036	2040	N10	W42	.674	16421	14.7	10	-N	3 C		39		F ZX	
889 PALE	17	2100	2100	2117	N23	E46	.754	16437	21.3	17	-F	3 C		17		F ZX	
890 CULG	17	2126	2133	2152	S31	W18	.612	16433	16.5	26	?B	C	2133	350	4.6	T ZX	
		IMP. 1 NO :	HOLL														
891 CULG	17	2132	2142	2156	S21	E70	.953	16439	23.1	24	-F	C	2142	40		ZX	
892 CULG	17	2210	2223U	2244	S03	W53	.802	16422	13.9	34	-F	C	2223	120	1.9	T ZX	
893 PALE	17	2215	2220	2239	N24	E45	.748	16437	21.3	24	-F	3 C		29		F ZX	
894 CULG	17	2218	2242	2342	N38	W32	.718	16419	15.0	84	?F	C	2242	160	2.2	FS ZX	
		IMP. 1 NO :	PALE														
895 CULG	17	2310	2320	2339	S20	E73	.966	16439	23.4	29	1N	C	2320	180		ZX	
GRP79896	18	0248+4	0248	0306	S01	W41	.658	16424	15.0	18	-F					F	
			0255														
PALE	18	0248	0248U	0259D	S01	W42	.671	16424	15.0	110	-F	2 C		46		F	
PURP	18	0252	0255	0306	S01	W40	.645	16424	15.1	14	-N	C					
897 CULG	18	0406	0416	0426	S20	E68	.942	16439	23.3	20	-F	C	0416	30		ZX	
898 PURP	18	0521	0535	0539	N12	W27	.475	16425	16.2	18	1N	C				ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR AREA		
					LAT.	MER. DIST.												
899 ABST	18	0637E	0640	0648	N12	W49	.760	16421	14.6	110	?F	P	0640	192	3.0	EJ	ZX	
		IMP.1 NO :	PURP															
900 ABST	18	0637E	0640	0650	N32	W07	.503	16426	17.8	130	-F	P	0640	131	1.6	EJ	ZX	
GRP79901	18	0656	0704+4 0720	0740	S06	W55	.825	16422	14.2	44	1N			120	2.1	EJ		
		PURP	0708	0742	S06	W56	.835	16422	14.1	46	1N	C						
	18	0700E	0700	0700D	S06	W54	.808	16422	14.2	1N	2	P	0700	168	3.0			
	18	0704E	0704U	0707D	S07	W56	.836	16422	14.1	30	-F	2	C	80				
	18	0713E	0720	0737	S05	W53	.804	16422	14.3	240	1N	P	0720	157	2.9	EJ		
GRP79902	18	0715E	0715 0733	0743	N09	W52	.789	16421	14.4	28	1B						EJK	
	18	0715E	0715	0740	N06	W54	.808	16421	14.3	250	1B	2	P	0715	140	2.5		
	18	0719E	0733	0745D	N13	W51	.783	16421	14.5	260	-N	P	0733	87	1.5	EJK		
903 ABST	18	0721	0737	0740	N31	W11	.505	16426	17.5	19	-F	C	0737	105	1.3	D	ZX	
904 ABST	18	0827	0832	0841	S06	W60	.870	16422	13.9	14	?F	C	0832	131	2.6	E	ZX	
		IMP.1 NO :	CATA															
905 CATA	18	1015	1020	1025D	N01	W46	.719	16424	15.0	100	-B	1	P	1020	84	1.2		ZX
906 CATA	18	1055	1110	1120D	S27	W29	.652	16433	15.3	250	1B	1	P	1110	337	4.6		ZX
907 HUAN	18	1540	1541	1550	S08	W62	.889	16422	14.0	10	-N	1	C	1541	25	.5	D	ZX
GRP79908	18	1625+5	1627	1648	S08	W62	.889	16422	14.0	23	-N							
	18	1625	1627	1640	S08	W63	.895	16422	14.0	15	-N	C	1627	60	1.4			
	18	1630	1652	1655	S10	W62	.891	16422	14.0	25	-N	3	C					
909 BIGB	18	1626	1628	1650	N32	W67	.935	16419	13.7	24	-N	C	1628	80			ZX	
910 HOLL	18	1629E	1629U	1659	S33	W26	.584	16433	16.7	300	-B	2	C		144		F	ZX
911 HUAN	18	1704E		1725	S08	W64	.904	16422	13.9	210	-F	1	P					ZX
912 BIGB	18	1841	1842	1851	S06	W63	.895	16422	14.1	10	-N	C	1842	60	1.4		ZX	
913 PALE	18	1854	1854	1858	N31	W17	.540	16426	17.5	4	-F	3	C		26		DE	ZX
GRP79914	18	1854+8	1902+1	1909D	S34	W28	.708	16433	15.7	15	-F			30	.4			
	18	1854	1903	1940	S34	W28	.708	16433	15.7	46	-N	*	C	1903	40	.5		
	18	1902	1902	1909	S35	W28	.717	16433	15.7	7	-F	*	C	19			DE	
915 BIGB	18	1938	1941	1956	S02	W53	.801	16424	14.8	18	-B	C	1941	110	1.9		ZX	
916 CULG	18	1959	2002	2013	S28	W36	.721	16433	16.1	14	-F	C	2002	70	1.0		ZX	
917 CULG	18	2037	2046	2102	N25	W42	.722	16425	15.7	25	-F	C	2046	80	1.1		ZX	
918 BIGB	18	2131	2132	2136	S01	W55	.820	16424	14.8	5	-B	C	2132	30	.5		ZX	
919 HUAN	18	2136		2139D	N31	W20	.562	16426	17.4	30	-F	1	P					ZX
GRP79920	18	2313	2356+3 2420	0050	S07	W65	.910	16422	14.1	97	1N			230			FU	
		PURP	0020	0024	S07	W67	.924	16422	14.0	9	1N	C						
	18	2313	2356	0050	S07	W65	.910	16422	14.1	97	2N	C	2356	220	5.1	F		
	18	2343E	2359U	0115	S07	W62	.888	16422	14.3	92D	1B	2	C	242			U =	
921 CULG	18	2352	2406	0039	N12	W61	.876	16421	14.4	47	-F	C	2406	50	1.0	F	ZX	
922 CULG	19	0032	0035	0042	S18	E52	.820	16439	22.9	10	-N	C	0035	70	1.3	H	ZX	
923 CULG	19	0115	0123	0135	N37	W64	.927	16419	14.3	20	-F	C	0123	40			ZX	
924 CULG	19	0144	0147	0157	S17	W58	.869	16423	14.7	13	-F	C	0147	50	1.0		ZX	
925 CULG	19	0150	0211	0221	N12	W63	.892	16421	14.4	31	-F	C	0211	40	.9		ZX	
926 ABST	19	0554E	0558	0603D	S29	W41	.769	16433	16.2	90	-F	P	0558	96	1.6	E	ZX	
GRP79927	19	0612+3	0616+1	0648	S02	W59	.859	16424	14.8	36	1N			190	3.7	EGHJKV		
	19	0612	0617	0647	S22	W59	.859	16424	14.8	35	1R	C	0617	220	4.2	HG		
	19	0615	0616	0648	S03	W60	.868	16424	14.8	33	1N	C	0616	157	3.3	EJKV		

## H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk			CORR AREA Sq. Deg.	
					LAT.	MER. DIST.													
928 ABST	19	0619	0621	0637	N33	W20	.586	16426	17.8	18	?N	C	0621	175	2.3	EJ	ZX		
		IMP.1 NO	: PURP	CULG															
929 ABST	19	0737	0738	0739D	N14	W45	.718	16425	15.9	20	-F	P	0738	87	1.3	DV	ZX		
930 CULG	19	0744	0746	0754	S33	W39	.778	16433	16.4	10	-F	C	0746	30	.5	T	ZX		
931 ABST	19	0757	0809	0817	N32	W23	.597	16426	17.6	20	-N	C	0809	87	1.1	EJ	ZX		
GRP79932	19	0816+2	0819+2	0845	S06	W68	.930	16422	14.2	29	1N			110			EJU		
ABST	19	0815	0819	0834D	S06	W69	.936	16422	14.2	18D	1N	C	0819	131			EJ		
TELV	19	0818	0821	0845	S07	W67	.924	16422	14.3	27	1B	3		98			U		
933 ABST	19	0829	0830	0833	N25	E28	.576	16437	21.5	4	-F	C	0830	87	1.1	J	ZX		
GRP79934	19	0844+1	0847+0	0911	S01	W59	.858	16424	14.9	27	-N						D		
ABST	19	0844	0847	0903	S01	W60	.867	16424	14.9	19	1F	C	0847	114	2.5		D		
TELV	19	0845	0847	0919	S02	W58	.849	16424	15.0	34	-B	3		41	.8				
935 TELV	19	1057	1059	1111D	S32	W30	.703	16433	17.2	140	-B	2		82	1.0	TH	ZX		
936 ATHN	19	1155E	1156	1206D	N32	W85	.995	16419	13.1	410	-B	1	1156	23	2.3		ZX		
937 HUAN	19	1334		1405D	S15	E54	.831	16441	23.6	310	-F	1	P				ZX		
938 HUAN	19	1337		1405D	S32	W45	.617	16433	16.2	280	-F	1	P	1356	30	.5		ZX	
	19	1405	1408																
	19	1418	1421																
	19	1457	1511																
	19	1526	1533																
GRP79939	19	1533E	1536	1610D	N30	W28	.620	16426	17.5	37	-N							U	
HO IL	19	1533E	1536	1610D	N31	W29	.637	16426	17.5	37D	-N	3	C		45			U F	
HUAN	19	1543E		1547D	N29	W27	.601	16426	17.6	40	-F	1	P	1543	20	.3		D	
GRP79940	19	1915+4	1918+6	1939	N11	W65	.906	16421	14.9	24	-N			40	1.0				
HOLL	19	1915	1924	1945	N09	W65	.906	16421	14.9	30	1N	3	C	118				F	
BIGB	19	1916	1918	1942	N13	W68	.927	16421	14.7	26	-B	C	1918	40					
PALE	19	1917	1923	1935	N12	W56	.914	16421	14.9	18	-F	3	C	38				DE	
HUAN	19	1919		1935	N11	W65	.906	16421	14.9	16	-F	1	C					F	
GRP79941	19	1953+8	2003	2018	S33	W42	.800	16433	16.7	15	-N			25	.4				
HUAN	19	1953		2035	S34	W42	.806	16433	16.7	12	-F	1	C	2001	30	.5			
BIGB	19	2001	2003	2011	S32	W43	.802	16433	16.6	10	-B	C	2003	20	.3				
GRP79942	19	2022+3	2025	2052	S32	W46	.824	16433	16.4	30	-N			45	.8			E	
BIGB	19	2022	2025	2052	S32	W47	.831	16433	16.3	30	-B	C	2025	40	.5				
HUAN	19	2025		2042D	S33	W45	.822	16433	16.5	17D	-N	1	P	2030	45	.8		E	
GRP79943	19	2258+0	2259+2	2338	S32	W47	.831	16433	16.4	10	-N			30	.5				
BIGB	19	2258	2259	2310	S32	W47	.831	16433	16.4	12	-B	C	2259	30	.5				
PALE	19	2258	2301U	2336	S32	W48	.839	16433	16.4	8	-N	3	C	32				DE	
GRP79944	19	2339	2340	0008	N31	W31	.655	16426	17.7	29	-F								
PALE	19	2339	2340	0011D	N31	W33	.673	16426	17.5	32D	-F	3	C	48				F	
VORO	19	2350E		0004	N31	W29	.637	16426	17.8	140	-F	P	2352	134	1.8			E	
GRP79945	20	0142+8	0144	020E	N23	E17	.445	16437	21.3	24	-N								
			0152																
VORO	20	0142	0144	0212	N23	E16	.437	16437	21.3	30	-N	C	0144	125	1.4			E	
YUNN	20	0150	0152	0159	N24	E18	.467	16437	21.4	9	-N	C		94	1.1				
946 YUNN	20	0150	0151	0159	S30	W50	.844	16433	16.3	9	-N	C		47	.8			ZX	
GRP79947	20	0349+5	0359+1	0411	N33	W32	.681	16426	17.8	22	-N								
YU IN	20	0349	0359	0405	N32	W31	.664	16426	17.8	16	1N	C		161	2.1				
PURP	20	0354	0400	0416	N34	W34	.705	16426	17.6	22	-N	C							
948 YUNN	20	0415	0419	0428	S29	W49	.832	16433	16.5	13	-N	C		80	1.4			ZX	
949 YUNN	20	0418	0419	0420	N32	W36	.708	16426	17.5	2	-N	C		79	1.1			ZX	
950 YUNN	20	0509	0524	0525	S30	W50	.844	16433	16.5	16	-F	C		94	1.7			ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP79951	20	0603+6	0610+6	0626	N32	W33	.682	16426	17.8	23	-N					EZ	
ABST	20	0603E	0610	0622	N31	W33	.674	16426	17.8	190	1N	P	0610	130	1.8	EZ	
PURP	20	0608	0616	0632	N34	W35	.713	16426	17.6	24	1N	C		244	3.4		
MITK	20	0609	0611	0620	N32	W33	.682	16426	17.8	11	1B	C	0611	150	2.1	E	
MANI	20	0612E	0615U	0627D	N29	W33	.659	16426	17.8	150	-N	C		100		F	
YUNN	20	0615E	0615	0630	N33	W32	.681	16426	17.9	150	-N	C		110	1.5		
ISTA	20	0615E		0624	N33	W32	.681	16426	17.9	90	-F	P				E	
GRP79952	20	0729+1	0731+0	0744	S31	W52	.862	16433	16.4	15	-N			90	1.8	DV	
CULG	20	0729	0731	0744	S31	W52	.862	16433	16.4	15	-N	C	0731	80	1.5	T	
ABST	20	0730	0731	0744	S32	W52	.866	16433	16.4	14	1F	C	0731	105	2.2	DV	
GRP79953	20	0732+1	0737+2	0748	S05	W89	1.000	16422	13.6	16	-N			60		AD	
CULG	20	0732	0737	0750	S05	W88	1.000	16422	13.7	18	-N	C	0737	40			
ABST	20	0733	0739	0745	S05	W90	1.000	16422	13.6	12	1F	C	0739	87		AD	
954	HTRP	20	1036	1036	1039	S15	E58	.865	16443	24.8	3	-F	C	1036	10	.2	ZX
955	HTRP	20	1040	1057	1150	N27	E42	.734	16446	23.6	70	-N	C	1057	70	.9	ZX
GRP79956	20	1045+0	1055+5	1155	N28	E15	.492	16437	21.6	70	-N			90	1.0	E	
MONT	20	1045	1100	1100D	N28	E16	.499	16437	21.6	150	-N	C	1100	100		E	
CATA	20	1045	1055	1155	N28	E15	.492	16437	21.6	70	-N	2	C	1055	84	1.0	
957	HTRP	20	1240	1245	1300	N30	W35	.685	16426	17.9	20	-F	C	1245	70	.9	E ZX
		20	1402	1519	NO FLARE PATROL												
GRP79958	20	1705E		1715D	S34	W54	.885	16433	16.7	9	-F						F
HOLL	20	1706E	1707U	1717D	S35	W54	.889	16433	16.7	10	-N	2	C	45			F
HUAN	20	1707E		1715D	S34	W54	.885	16433	16.7	80	-F	1	P				
GRP79959	20	1736+3		1745D	S32	W56	.892	16433	16.5	9	-N						D
HUAN	20	1736		1745	S34	W54	.885	16433	16.7	9	-F	1	C				D
BIGB	20	1739	1747	1853	S30	W59	.905	16433	16.3	74	-9	C	1747	70	1.4		
960	BIGB	20	1858	1859	1915	S32	W47	.831	16433	17.3	17	-9	C	1859	40	.6	ZX
961	CULG	20	1950E	1954	2002	S31	W59	.907	16433	16.4	120	-N	C	1954	60	1.8	T ZX
962	CULG	20	2020	2027	2046	S38	W53	.893	16433	16.9	26	?F	* C	2027	140	3.1	ZX
			IMP.1 NO :	BIGB													
963	CULG	20	2030	2044	2233	N19	E28	.525	16438	23.0	123	-F	C	2044	100	1.2	ZX
964	CULG	20	2031	2043	2051	N33	W41	.755	16426	17.8	20	-F	C	2043	40	.6	ZX
GRP79965	20	2123+1	2126+3	2155	S33	W55	.883	16433	16.8	32	-N			40	.9		
CULG	20	2043	2049	2232	S32	W58	.904	16433	16.5	109	-N	* C	2049	80	1.8	T	
HOLL	20	2123	2129	2142	S36	W56	.903	16433	16.7	19	-N	* C		49		F	
PALE	20	2124	2128	2138	S34	W55	.892	16433	16.8	14	-N	* C		29		DE	
BIGB	20	2124	2126	2237	S33	W47	.835	16433	17.4	43	-9	* C	2126	50	.8		
966	BIGB	20	2126	2129	2131	N14	W67	.921	16425	15.9	5	-N	C	2129	30		ZX
967	BIGB	20	2126	2131	2137	N13	W68	.999	16421	14.3	11	-N	* C	2131	20		ZX
GRP79968	20	2234+2	2236+1	2246	S33	W57	.901	16433	16.7	12	-N						
BIGB	20	2234	2237	2251	S33	W56	.906	16433	16.6	17	-9	C	2237	90	1.1		
HOLL	20	2236	2236	2241	S34	W57	.903	16433	16.7	5	-F	3	C	26			
969	PALE	20	2303	2305	2306	S33	W56	.895	16433	16.8	3	-F	3	C	22		F ZX
970	CULG	20	2354	2401	0200	N18	E27	.512	16438	23.0	125	?F	C	2401	340	9.6	SFI ZX
			IMP.2 NO :	PALE													
971	CULG	21	0008	0016	0026	S21	E22	.524	16439	22.7	18	-N	C	0016	30	.4	ZX
972	CULG	21	0044	0046	0053	N32	W47	.802	16426	17.5	9	-F	C	0046	60	1.0	ZX
973	CULG	21	0051	0053	0059	S15	E51	.804	16443	24.9	8	-N	C	0053	80	1.4	ZX
974	PALE	21	0117	0121	0125	N31	W46	.789	16426	17.6	8	-F	3	C	21		F ZX
975	CULG	21	0154	0156	0206	S16	E51	.804	16443	24.9	12	-N	C	0156	70	1.2	ZX
976	CULG	21	0357	0407	0440	S15	E50	.795	16443	24.9	43	-N	C	0407	80	1.4	H ZX

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR-TANCE	OBS. COND TYPE	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
577 CULG	21	0412	0418	0430	S31	W61	.918	16433	16.6	18	1N	C	0418	120	2.8	T	ZX	
	21	0451	0457	NO FLARE PATROL														
	21	0458	0500	NO FLARE PATROL														
978 CATA	21	0720E	0720	072F	S38	W58	.919	16433	17.0	50	-N	2 P	0720	28			ZX	
979 ABST	21	0739E	0742	0753	N20	W69	.937	16425	16.1	140	?F	P	0742	157			EG ZX	
	IMP.1 NO : CATA																	
GRP79980	21	0740	0748	0759	S18	E20	.472	16439	22.8	19	-F						EJ	
	3754																	
ABST	21	0740	0748	0753	S17	E20	.462	16439	22.8	13	-F	C	0748	166	1.9		EJ	
ABST	21	0751	0754	0759	S20	E20	.494	16439	22.8	8	-F	C	0754	157	1.8		E	
961 ABST	21	0823	0824	0828	S18	E18	.451	16439	22.7	5	-F	C	0824	96	1.1		OV ZX	
982 MONT	21	0835	0838	0844	S33	W59	.912	16433	16.9	9	-F	C	0838	60			E ZX	
GRP79983	21	0851+4	0858+6	0910	N27	E04	.425	16437	21.7	19	-F						EK	
HTPR	21	0851	0958	0910	N26	E04	.409	16437	21.7	19	-F	C	0858	40	.4		E	
ABST	21	0852	0904	0912C	N27	E04	.425	16437	21.7	20D	-F	P	0904	157	1.8		EK	
MONT	21	0854	0858	0907	N28	E04	.440	16437	21.7	13	-F	C	0858	60			E	
CATA	21	0855	0900	0905D	N27	W04	.425	16437	21.1	10D	-N	2 P	0900	112	1.3			
984 HTPR	21	0912	0916	0925	S17	E20	.462	16439	22.9	13	-F	C	0921	30	.3		E ZX	
GRP79985	21	1007+3	1010+1	1020	S17	E17	.430	16439	22.7	13	-N						E	
HTPR	21	1007	1011	1020	S18	E17	.441	16439	22.7	13	-N	C	1011	30	.3		E	
CATA	21	1010	1010	1020	S17	E17	.430	16439	22.7	10	-N	2 C	1010	84	1.0			
986 HTPR	21	1217	1218	1240	N23	W02	.357	15437	21.4	23	-F	C	1218	40	.4		E ZX	
987 HOLL	21	1545	1626	1646	S24	E24	.574	16442	23.5	60	-F	3 C		73			ZX	
GRP79988	21	1604+0	1606+0	1638	S34	W68	.957	16433	16.6	34	-N						F	
HOLL	21	1604	1606	1639	S35	W67	.954	16433	16.6	35	1N	3 C					F	
BIGB	21	1604	1606	163F	S33	W70	.964	16433	16.4	32	-B	C	1606	40				
HUAN	21	1614E		1615D	S34	W68	.957	15433	16.6	10	-F	1 P						
989 HOLL	21	1805	1807	1826	N08	W72	.950	16425	16.4	21	-F	3 C					ZX	
990 HOLL	21	1826	1827	1830	S16	E13	.378	16439	22.7	4	-F	3 C		25			ZX	
991 CULG	21	2003	2011	2022	S18	E11	.389	15439	22.7	19	?N	C	2011	240	2.6		FT ZX	
	IMP.1 NO : BIGB HOLL PALE																	
992 CULG	21	2022	2028	2039	N38	W71	.960	16426	16.5	17	-F	C	2028	30			G ZX	
993 CULG	21	2024	2026	2036	S32	W69	.959	15433	16.7	12	-F	C	2026	60			ZX	
994 CULG	21	2101	2104	210F	N23	E20	.477	16446	23.4	19	-F	C	2104	100	1.2		ZX	
995 CULG	21	2119	2120J	2128D	N26	W05	.412	16437	21.5	90	-N	P	2120	160	1.8		ZX	
996 BIGB	21	2149	2158	2207	S34	W70	.965	16433	16.7	18	-B	C	2158	30			ZX	
GRP79997	21	2223+2	2226+4	2250	S17	E11	.375	16439	22.8	27	-N						FH	
BIGB	21	2223	2226	2251	S16	E09	.346	16439	22.6	28	-B	C	2226	50	.5		FH	
PALE	21	222F	2230	2249	S18	E14	.413	16439	23.0	24	-N	3 C		151			FH	
	22 0323 1443 NO FLARE PATROL																	
	22 0504 0511 NO FLARE PATROL																	
998 CULG	22	0604	0612	0627	S32	W78	.988	16433	16.4	23	?F	C	0612	80			ZX	
	IMP.1 NO : TACH ABST																	
GRP79999	22	0657+8	0703	0726	S15	W61	.889		17.7	29	-F						EGH	
	0710+1																	
CULG	22	0657	0703	0729	S15	W61	.889		17.7	32	1N	C	0703	110	2.3		GH	
ABST	22	0705	0711	0723	S17	W61	.892		17.7	18	-F	C	0711	67			E	
MANI	22	0709E	0710	0717D	S13	W57	.853		18.0	80	-F	3 C		15				
0 MANI	22	0703E	0703U	0717D	S28	E25	.622	16442	24.2	140	-F	3 C		30			ZX	
1 CULG	22	0711	0712	0717	S31	W87	1.000	16433	15.8	6	-F	* C	0712	20			ZX	

H $\alpha$  SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR AREA Sq. Deg.			
					LAT.	MER. DIST.													
GRP80002	22	0727+3	0730+3	0740	S32	W82	.995	16433	16.2	13	1N								
CULG	22	0727	0733	0750	S33	W85	.999	16433	15.9	23	1N	* C	0733	120				ADJ	
ABST	22	0729E	0731	0739	S32	W80	.992	16433	16.3	10D	1N	* P	0731	150				DJ	
ISTA	22	0729		0740	S32	W85	.998	16433	15.9	11	-N	* P		87				A	
CATA	22	0730	0730	0740	S32	W80	.992	16433	16.3	10	1B	* C	0730	112					
GRP80003	22	0738+3	0744	0800	S17	E07	.346	16439	22.8	22	-F							J	
ARST	22	0738	0744	0800	S17	E07	.346	16439	22.8	22	-N		0744	140	1.5			FJ	
ISTA	22	0741		0800	S17	E07	.346	16439	22.8	19	-F		P					E	
4 ISTA	22	0805		0816	S27	E24	.603	16442	24.1	11	-F		P					D ZX	
5 ABST	22	0855	0857	0907	S27	E24	.603	16442	24.2	12	-F		C	0857	87	1.1		E ZX	
6 MONT	22	1128	1141	12130	S25	E22	.565	16442	24.1	45D	-N		C	1141	100			E ZX	
7 HTPR	22	1244	1246	1258	N22	W14	.409	16437	21.5	11	-F		C	1246	20	.2		ZX	
	22	1310	1312	NO FLARE PATROL															
8 HTPR	22	1338	1354	1400	S17	E03	.330	16439	22.8	22	-F		C	1354	30	.3		E ZX	
9 HOLL	22	144E	1448	1521	N10	W67	.921	16429	17.6	36	-F	2 C		33				ZX	
10 BIGB	22	1532	1534	1547	N32	W68	.942	16426	17.6	15	-B		C	1534	120			ZX	
GRP80011	22	1535+1	1538+0	1547	N11	W68	.927	16429	17.5	12	-N								
HOLL	22	153E	1538	1548	N09	W67	.920	16429	17.6	13	-F	2 C		35					
BIGB	22	1536	1538	1545	N13	W70	.940	16429	17.4	9	-B		C	1538	39				
GRP80012	22	1643+0	1644+1	1657	N31	W65	.925	16426	17.8	14	-N								
BIGB	22	1643	1644	1654	N33	W65	.928	16426	17.8	11	-B		C	1644	20				
HOLL	22	1643	1645	1659	N30	W65	.924	16426	17.6	16	-F	3 C		32					
GRP80013	22	1820+1	1821+0	1827	N33	W67	.938	16426	17.7	7	-N								
BIGB	22	1820	1821	1827	N34	W68	.944	16426	17.7	7	-B		C	1821	30				
HOLL	22	1821	1821	1826	N32	W67	.937	16426	17.7	5	-F	3 C		26					
14 HOLL	22	1832	1848	1930	S19	E00	.359	16439	22.8	28	-F	3 C		36				F ZX	
15 PALE	22	1938	1939	1942	N13	W70	.940	16429	17.6	4	-F	3 C		13				F ZX	
16 CULG	22	2016	2030	2048	S17	W03	.330	16439	22.6	32	-F		C	2030	120	1.3		H ZX	
GRP80017	22	2036+0	2036+2	2042	N32	W67	.937	16426	17.8	6	-F								
CULG	22	2036U	2036	2043	N33	W68	.943	16426	17.8	7D	-N		C	2036	40				
HOLL	22	2036	2038	2041	N31	W66	.930	16426	17.9	5	-F	3 C		17					
18 HOLL	22	2251	2251	2311	S16	W02	.311	16439	22.8	20	-F	3 C		31				ZX	
	22	2352	0008	NO FLARE PATROL															
	23	0013	0019	NO FLARE PATROL															
19 CULG	23	0131	0142	0216	S17	W04	.331	16439	22.8	37	1F		C	0142	200	2.1		L ZX	
	23	0313	0320	NO FLARE PATROL															
20 PURP	23	0343	0343	034E	S14	E33	.593	16443	25.6	7	-N		C					ZX	
21 CULG	23	0447	0449	0458	S15	E32	.586	16443	25.6	11	-F		C	0449	60	.7		ZX	
GRP80022	23	0501+5	0506	0522	S17	W07	.344	16439	22.7	21	-F								
			0518																L
CULG	23	0501	0518	0531	S17	W09	.357	16439	22.5	30	-N		C	0518	100	1.1		L	
PURP	23	0506	0506	0512	S17	W06	.339	16439	22.8	5	-F		C						
23 CULG	23	0511	0514	0527	S25	E13	.496	16442	24.2	16	-N		C	0514	80	.9		ZX	
24 CULG	23	0527	0530	0537	S15	E33	.599	16443	25.7	10	-F		C	0530	40	.5		ZX	
25 PURP	23	0619E	0619	06190	S17	W04	.331	16439	23.0		-F		P					ZX	
GRP80026	23	0731E		0737	S17	W08	.350	16439	22.7	6	-F								
HTPR	23	0731E		0735D	S17	W10	.364	16439	22.6	4D	-N		C	0731	40	.4			
PURP	23	0732E	0732	0737	S18	W07	.360	16439	22.8	5D	-F		C						



76  
Nov 79

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA		CORR. AREA	
					LAT.	MER. DIST.											
					Mill of Disk	Sec. Deg.											
GRP80027	23	0759+1	0802+1	0842	N24	W27	.562	16437	21.3	43	-F			45	.4	D	
HTPR	23	0759	0802	0835	N24	W27	.562	16437	21.3	36	-N	C	0802	40	.4		
MONT	23	0800	0803	0827	N25	W26	.560	16437	21.4	27	-F	C	0803	50		D	
WEND	23	0815E		0849	N24	W27	.562	16437	21.3	340	-F	P	0815	100	1.3		
ABST	23	0843E	0844	0916	N24	W27	.562	16437	21.3	230	-F	P	0844	87	1.1	D	
GRP80028	23	0830	0835	0859	N17	W06	.279	16438	22.9	29	-F					G	
HTPR	23	0830	0835	0910	N17	W06	.279	16438	22.9	30	-F	C	0835	20	.2	E	
ABST	23	0843E	0844	0858	N17	W07	.285	16438	22.8	150	-F	P	0844	70	.8	OG	
GRP80029	23	0904+2	0908+0	0914	N33	W68	.943	16426	18.3	10	-F						
WEND	23	0904	0908	0914	N33	W67	.938	16426	18.4	10	-N	C	0908	70			
HTPR	23	0905	0908	0913	N33	W69	.948	16426	18.2	7	-F	C	0908	20	.5		
GRP80030	23	0941+2	0943+1	0950	S17	W10	.364	16439	22.7	9	-N			40	.4	D	
HTPR	23	0941	0943	0950	S17	W10	.364	16439	22.7	9	-N	C	0943	40	.4		
MONT	23	0942	0943	0946	S17	W11	.371	16439	22.6	4	-F	C	0943	50		D	
WEND	23	0943	0944	0953	S17	W10	.364	16439	22.7	10	-N	C	0944	25	.3		
31 HTPR	23	1029	1033	1040	S17	W12	.380	16439	22.5	11	-F	C	1033	20	.2	E ZX	
GRP80032	23	1209+j	1211+5	1227	N34	W68	.944	16426	18.4	18	1N			120		E	
WEND	23	1209	1216	1233	N34	W67	.940	16426	18.5	24	1N	C	1216	160			
HTPR	23	1209	1211	1220	N34	W70	.953	16426	18.3	11	-B	C	1211	80		E	
GRP80033	23	1303	1310+4	1348	S16	W11	.358	16439	22.7	45	-N					E	
HTPR	23	1303	1314	1345	S17	W13	.388	16439	22.6	42	-N	C	1314	70	.7	E	
LOCA	23	1310E	1310	1350	S16	W10	.349	16439	22.8	400	1N	V	1310	387	4.2	B	
34 HTPR	23	1327	1334	1350	S17	E27	.540	16443	25.6	23	-F	C	1334	40	.4	E ZX	
GRP80035	23	1340	1350	1440	S20	E06	.386	16442	24.0	60	-F					E	
HTPR	23	1340	1350	1413	S21	E09	.415	16442	24.2	23	-F	C	1350	10	.1		
HTPR	23	1359	1410	1440	S20	E04	.379	16442	23.9	41	-F	C	1410	30	.3	E	
36 HTPR	23	1401	1405	1420	S16	W13	.375	16439	22.6	19	-F	C	1405	20	.2	ZX	
	23	1513	1555		NO FLARE PATROL												
37 BIGB	23	1647	1649	1716	S25	E02	.454	16442	23.8	29	-F	C	1649	60	.6	ZX	
GRP80038	23	1750+5	1757	1836	S24	E02	.438	16442	23.9	46	-F					F	
BIGB	23	1750	1757	1838	S25	E03	.455	16442	24.0	48	-N	C	1757	40	.4		
PALE	23	1756	1818	1834	S24	E02	.438	16442	23.9	38	-F	3 C		29		F	
39 PALE	23	1939	1941	1959	S25	E01	.453	16442	23.9	20	-F	3 C		29		F ZX	
GRP80040	23	2142+0	2143+3	2156	N14	W32	.557	16449	21.5	14	-N			80	1.0	F	
CULG	23	2142	2145	2156	N14	W34	.584	16449	21.4	14	1N	C	2145	210	2.5		
BIGB	23	2142	2143	2217	N15	W32	.562	16449	21.5	25	-N	C	2143	70	.9		
PALE	23	2142	2146	2152	N13	W31	.539	16449	21.6	10	-F	3 C		82		F	
GRP80041	23	2156+7	2157	2220	S24	W02	.438	16442	23.8	24	-F						
PALE	23	2156	2157	2210	S25	E00	.453	16442	23.9	14	-F	3 C		27		DE	
BIGB	23	2203	2205	2229	S24	W04	.442	16442	23.6	26	-N	C	2205	70	.7		
42 BIGB	23	2212	2214	2245	S15	E23	.475	16443	25.7	33	-F	C	2214	40	.4	ZX	
43 BIGB	23	2212	2214	2218	N32	W88	.999	16426	17.3	6	-B	C	2214	40		A ZX	
44 BIGB	23	2218	2220	2230	S16	W16	.405	16439	22.7	12	-N	C	2220	60	.6	ZX	
45 CULG	23	2237	2243	2254	N25	W79	.985	16426	18.0	17	-F	C	2243	30		ZX	
GRP80046	23	2305+9	2327+3	2344	N14	W33	.570	16449	21.5	39	-N						
CULG	23	2305	2327	2343	N14	W33	.570	16449	21.5	38	-N	C	2327	160	1.9		
BIGB	23	2322	2330	2344	N15	W33	.575	16449	21.5	220	-N	P	2330	70	.9		
47 CULG	24	0005	0009	0017	S16	E12	.365	16443	24.9	12	-F	C	0009	30	.3	ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	NER. DIST.											
GRP80048	24	0042	0050+5	0100	N35	W80	.987	16426	18.0	18	1N						
CULG	24	0042	0050	0102	N36	W80	.987	16426	18.0	20	1N						
PALE	24	0051E	0052	0054	N31	W78	.981	16426	18.2	30	-F	3	C	0050	90		
PURP	24	0052	0055	0100	N35	W80	.987	16426	18.0	8	1N		C		28	DE	
49 CULG	24	0257	0301	0316	N36	W81	.989	16426	18.0	19	?N		C	0301	100		ZX
IMP.1 NO : PURP																	
50 CULG	24	0310	0315	0331	S16	W21	.459	16439	22.6	21	-F		C	0315	40	.5	T ZX
51 CULG	24	0401	0401	0423	S28	W07	.508	16442	23.6	22	-F		C	0401	40	.5	ZX
52 CULG	24	0410	0415	0420	N15	W36	.614	16449	21.5	10	-N		C	0415	80	1.0	ZX
53 CULG	24	0556	0604	0621	N15	W38	.639	16449	21.4	25	-F		C	0504	60	.8	ZX
GRP80054	24	0740	0748	0808	N13	W38	.633	16449	21.5	28	-F						E
HTPR	24	0740	0748	0805	N13	W38	.633	16449	21.5	25	-F		C	0748	20	.3	E
ISTA	24	0800E		08100	N14	W38	.636	16449	21.5	100	-N		P				E
GRP80055	24	0919+3	0924+0	0930	S23	W08	.438	16442	23.8	11	-F				35	.4	E
HTPR	24	0919	0924	0931	S24	W08	.453	16442	23.8	12	-F		C	0924	20	.2	E
MONT	24	0922	0924	0928	S23	W08	.438	16442	23.8	6	-F		C	0924	50		E
GRP80056	24	1004+1	1008	1026	N34	W85	.996	16426	18.0	22	-N						
1018																	
HTPR	24	1004	1008	1025	N34	W85	.996	16426	18.0	21	-N		C	1008	40		
MONT	24	1005	1018	1025	N35	W86	.997	16426	18.0	21	-N		C	1018	70		
57 HTPR	24	1015	1017	1026	N23	W15	.434	16446	23.3	11	-F		C	1017	20	.2	E ZX
GRP80058	24	1100+5	1106+1	1125	N14	W39	.648	16449	21.5	25	-F						
HTPR	24	1100	1106	1125	N13	W38	.633	16449	21.5	25	-F		C	1106	30	.4	
MONT	24	1105	1107	11200	N15	W41	.676	16449	21.4	150	-N		C	1107	180		
59 HTPR	24	1224	1225	1230	N17	E07	.287	16453	25.0	6	-F		C	1225	40	.4	E ZX
60 KANZ	24	1310		13370	N16	W41	.679	16449	21.5	270	-F	1					ZX
24 1337 1344 NO FLARE PATROL																	
24 1357 1409 NO FLARE PATROL																	
61 HTPR	24	1418	1420	1427	N17	E66	.281	16453	25.0		-F		C	1420	30	.3	E ZX
GRP80062	24	1552+1	1556+4	1624	S14	W25	.491	16439	22.8	32	-F				60	.7	
HOLL	24	1552	1600	1631	S14	W25	.491	16439	22.8	39	-F	3	C		71		F
BIGB	24	1553	1556	1617	S15	W24	.486	16439	22.9	24	-N		C	1556	60	.7	
HUAN	24	1558E		16080	S14	W25	.491	16439	22.8	100	-F	1	P	1556	60	.7	E
63 BIGB	24	1612	1618	1639	N14	W44	.709	16449	21.4	27	-N		C	1618	40	.6	ZX
64 HOLL	24	1714	1717	1733	N17	E05	.275	16453	25.1	19	-F	3	C		27		ZX
65 BIGB	24	1730	1732	1748	N25	W19	.494	16446	23.3	18	-N		C	1732	30	.3	G ZX
GRP80066	24	1755+0	1758+5	1825	N11	E46	.726	16450	28.2	31	-N				50	.7	
BIGB	24	1755	1758	1834	N11	E46	.726	16450	28.2	39	-N		C	1758	50	.7	
HOLL	24	1755E	1802	18350	N11	E46	.726	16450	28.2	100	-B	3	C		87		
PALE	24	1802E	1804	1813	N11	E44	.702	16450	28.1	110	-N	4	C		31		DE
HOLL	24	1802	1802	1825	N11	E46	.726	16450	28.2	24	-B	3	C		87		
67 BIGB	24	1841	1846	1855	N17	E02	.264	16453	24.9	14	-F		C	1846	70	.7	ZX
68 BIGB	24	1932	1939	1957	N13	E46	.730	16450	28.3	25	-N		C	1939	20	.3	ZX
GRP80069	24	2139+1	2145+2	2203	N18	E02	.261	16453	25.1	24	-F				40	.4	
BIGB	24	2139	2145	2159	N19	E02	.298	16453	25.1	20	-N		C	2145	40	.4	
CULG	24	2140	2147	2217	N18	E02	.281	16453	25.1	27	-F		C	2147	40	.4	
70 CULG	24	2154	2207	2246	S25	W17	.522	16442	23.6	52	-F		C	2207	80	.9	ZX
GRP80071	24	2244+0	2245+0	2258	N31	W90	1.000	16426	18.2	14	-N						
PALE	24	2244	2245	23140	N31	W90	1.000	16426	18.2	200	-F	3	C				
HOLL	24	2244	2245	2252	N31	W89	1.000	16426	18.3	8	-B	3	C				
MANI	24	2245E	2245U	22520	N32	W90	1.000	16426	18.2	70	-F	2	C				

## H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION				CMP. DAY	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP80072	24	2252+4	2257+3	2318	N12	E43	.692	16450	28.2	26	-F							
CULG	24	2252	2300	2319	N13	E43	.695	16450	28.2	27	-N	C	2300	60	.8	F		
HANI	24	2252E	2257	2318D	N12	E43	.692	16450	28.2	26D	-F	2 C		90	1.3			
HOLL	24	2252	2258	2315D	N11	E43	.690	16450	28.2	23D	-N	3 C		40				
PALE	24	2256	2257	2317	N12	E42	.680	16450	28.1	21	-F	3 C		63				
														40		F		
73 PURP	25	0412	0418	0441	S27	W14	.525	16442	24.1	29	-N	P					ZX	
GRP80074	25	0639	0640+1	0702	N31	W90	1.000	16426	18.5	23	1N			120			ADJ	
ABST	25	0639	0641	0708	N30	W90	1.000	16426	18.5	29	1N	C	0641	96			ADJ	
CATA	25	0643E	0640	0655	N32	W90	1.000	16426	18.5	15D	2N	1 P	0640	140			A	
75 ABST	25	0647	0648	0706	N16	W06	.267	16453	24.8	19	-F	C	0648	87	.9	DV	ZX	
76 ABST	25	0803	0803	0812	S24	W23	.560	16442	23.6	9	-N	C	0803	70	1.0	DJV	ZX	
GRP80077	25	1003+2	1009+1	1033	N11	E37	.614	16450	28.2	30	-B			110	1.4			
			1016															
KANZ	25	1003	1009	1033	N10	E37	.612	16450	28.2	30	-B	1						
CATA	25	1007	1010	1030	N12	E37	.617	16450	28.2	25	1B	1 C	1010	168	2.2			
WEND	25	1011E		1033	N12	E37	.617	16450	28.2	22D	-N	C	1011	112	1.5			
ATHN	25	1015E	1016	1028D	N11	E43	.691	16450	28.7	13D	-B	1	1016	66	.9			
78 CATA	25	1115	1120	1155	S15	W02	.283	16443	25.3	40	-N	1 C	1120	84	.9		ZX	
	25	1400	1432	NO FLARE PATROL														
	25	1540	1542	NO FLARE PATROL														
GPP80079	25	2019+1	2022	2034	S27	W20	.567	16442	24.3	15	-F			40	.5		E	
HUAN	25	2019E		2024D	S28	W19	.571	16442	24.4	5D	-F	1 P	2022	45	.6		E	
BIGB	25	2020	2022	2034	S26	W22	.572	16442	24.2	14	-N	C	2022	30	.3			
80 CULG	25	2126	2137	2150	S18	E72	.959	16455	1.3	24	-F	C	2137	60			ZX	
GRP80081	25	2154+0	2155+1	2211	N14	W61	.879	16449	21.3	17	-N			50	1.1			
BIGB	25	2154	2155	2213	N13	W62	.886	16449	21.3	19	-B	C	2155	30	.7			
CULG	25	2154	2156	2219	N15	W60	.872	16449	21.4	15	-N	C	2156	70	1.5			
82 BIGB	25	2201	2202	2228	S15	W45	.738	16439	22.5	27	-N	C	2202	30	.4		ZX	
83 CULG	25	2356	2358	0005	N15	W68	.929	16449	20.9	9	-F	C	2358	50	1.3		ZX	
GRP80084	26	0019+4	0026+6	0130	S20	W40	.704	16439	23.0	71	-N						FLU	
CULG	26	0019	0032	0140	S20	W40	.704	16439	23.0	31	1N	C	0032	250	3.5		LF	
PALE	26	0023	0026	0120	S20	W40	.704	16439	23.0	57	-N	3 C		58			UF	
85 CULG	26	0346	0357	0421	N14	W63	.895	16449	21.4	35	-F	C	0357	60	1.4		ZX	
86 ABST	26	0558	0608	0715D	N17	W17	.387	16453	25.0	77D	?N	P	0608	244	2.7	F	ZX	
		IMP.1 NO :	CULG	TACH														
87 ABST	26	0702E	0702	0707	S23	W37	.689	16442	23.5	5D	-F	P	0703	87	1.2	D	ZX	
88 ABST	26	0718E	0720	0726	S28	W29	.651	16442	24.1	8D	-F	P	0720	87	1.3	D	ZX	
89 ABST	26	0724	0730	0757	N17	W19	.411	16453	24.9	33	-F	C	0730	87	1.0	D	ZX	
90 CULG	26	0756	0804	0815D	N15	W67	.923	16449	21.3	19D	?N	P	0804	80	2.0		ZX	
		IMP.1 NO :	CATA	KANZ														
GRP80091	26	0758+2	0805	0834	N19	W16	.398	16453	25.1	36	-F							
			0822															
KANZ	26	0758	0822	0834	N19	W16	.398	16453	25.1	36	-F	1						
CATA	26	0800	0805	0810D	N20	W16	.410	16453	25.1	13D	-N	2 P	0805	28	.3			
	26	0910	0936	NO FLARE PATROL														
	26	1014	1210	NO FLARE PATROL														
	26	1215	1226	NO FLARE PATROL														
	26	1231	1245	NO FLARE PATROL														
	26	1250	1313	NO FLARE PATROL														
	26	1325	1428	NO FLARE PATROL														
	26	1453	1504	NO FLARE PATROL														
	26	1511	1516	NO FLARE PATROL														
92 BIGB	26	1602	1604	1627	S15	W55	.837	16439	22.5	25	-B	C	1604	30	.5		ZX	

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP80093	26	1850+2	1853+0	1908	S28	W33	.685	16442	24.3	18	-F			50	.8	E	
BIGB	26	1850	1853	1913D	S27	W35	.697	16442	24.2	23D	-N	P	1853	90	1.1		
HUAN	26	1851E		1908D	S28	W33	.686	16442	24.3	17D	-F	1 P	1853	40	.6	E	
HOLL	26	1852	1853	1901	S28	W33	.686	16442	24.3	9	-F	3 C		40			
GRP80094	26	2003+7	2011+0	2016	S13	W24	.468	16443	25.0	13	-F			30	.3	D	
CULG	26	2003	2011	2023	S13	W24	.468	16443	25.0	20	-F	C	2011	89	.9		
HOLL	26	2010	2011	2016	S13	W24	.468	16443	25.0	6	-F	3 C		32			
HUAN	26	2011E		2014	S14	W24	.476	16443	25.0	30	-F	1 P	2012	25	.3	D	
95 CULG	26	224F	2247	2255	S12	E63	.899	16455	1.7	10	-F	C	2247	30	.7	ZX	
96 CULG	27	0132	0145	0211	S14	W57	.855	16439	22.8	39	1F	C	0145	180	3.4	ZX	
97 CULG	27	0138	0149U	0213	N18	W72	.953	16449	21.7	35	?F	C	0149	100		ZX	
		IMP.1	NO :	PALE													
98 CULG	27	0522	0526	0544	N16	W34	.595	16453	24.7	22	-N	C	0526	120	1.5	ZX	
99 CULG	27	0606	0614	0624	N16	W34	.595	16453	24.7	16	-F	C	0614	80	1.0	ZX	
GRP80100	27	0647>9	0718	0814	N16	E65	.266	16448	27.7	77	1N					FILS	
			0742														
CULG	27	0647	0718	0730D	N18	E05	.297	16448	27.7	48D	1N	P	0718	330	3.5	SFIL	
PURP	27	0722	0742	0814	N14	E05	.234	16448	27.7	42	1N	P					
101 CATA	27	0845	0850	0900D	N19	E39	.639	16452	30.3	150	-N	1 P	0850	84	1.1	ZX	
	27	0920	0930	NO FLARE PATROL													
	27	1410	1416	NO FLARE PATROL													
GRP80102	27	1552+0	1553	1612	S25	W54	.853	16442	23.6	20	-F			30	.6		
HOLL	27	1552	1553	1616	S24	W54	.850	16442	23.6	24	-N	3 C		34			
HUAN	27	1552		1608	S26	W55	.863	16442	23.5	16	-F	1 C	1553	30	.6		
103 HUAN	27	1810		1845D	N12	E36	.605	16452	30.5	35D	-F	1 P				ZX	
104 BIGB	27	1838	1846	1855	S13	W39	.660	16443	24.9	17	-F	C	1846	40	.5	ZX	
GRP80105	27	2135+2	2138+5	2200	S29	W50	.835	16442	24.1	25	-N			35	.6		
CULG	27	2135	2138	2155	S28	W50	.831	16442	24.1	20	-N	C	2138	40	.7		
BIGB	27	2137	2143	2205	S30	W50	.839	16442	24.2	28	-B	C	2143	30	.5		
106 PALE	28	0040	0041	0044	S25	W60	.896	16442	23.5	4	-F	3 C		17		F ZX	
107 CULG	28	0559	0603	0610	S16	W35	.625	16443	25.6	11	-F	C	0603	70	.9	ZX	
GRP80108	28	1034+2	1039	1117	S14	W48	.765	16443	24.8	33	-F					E	
			1052														
MONT	28	1034	1139	1058	S14	W49	.776	16443	24.8	24	-F	C	1039	50		E	
KANZ	28	1036	1052	1116	S14	W47	.755	16443	24.9	40	-F	1					
109 HUAN	28	1319		1324	S15	W47	.758	16443	25.0	5	-F	1 C				ZX	
110 HUAN	28	1353		1419D	S16	W48	.771	16443	25.0	26D	-F	1 P				ZX	
111 BIGB	28	1718	1722	1803	S17	W50	.794	16443	25.0	45	-N	C	1722	80	1.3	ZX	
GRP80112	28	1828>9	1923	1928	S16	W50	.791	16443	25.0	60	-F						
HUAN	28	1828E		1928D	S18	W50	.797	16443	25.0	59D	-F	1 P	1857	20	.4		
HOLL	28	1917	1923	1927	S15	W51	.799	16443	25.0	10	-N	3 C		20			
113 HOLL	28	1950	1951	2000	S15	W51	.799	16443	25.0	10	-N	3 C		22		ZX	
114 CULG	28	2022	2025	2032	S15	W53	.818	16443	24.9	10	-N	C	2025	60	1.0	T ZX	
115 CULG	28	2255	2258	2339	S16	W54	.829	16443	24.9	14	-N	C	2258	60	1.0	T ZX	
116 BIGB	28	2333	2339	2348D	S15	W54	.827	16443	24.9	15D	?N	P	2339	120	2.1	ZX	
		IMP.1	NO :	CULG													
117 CULG	28	2349	2354	0010	S15	W73	.961	16441	23.5	21	1F	C	2354	60		ZX	
	29	0014	1016	NO FLARE PATROL													

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
GRP80118	29	0025+7	0025	0039	S15	H53	.820	16443	25.0	14	-N						
PALE	29	0025E	0025U	0034	S16	H54	.829	16443	25.0	9D	-F	3	C		21		DE
PURP	29	0032	0042	0043	S16	H53	.820	16443	25.0	11	1N		C				
119 CULG	29	0623	0624	0627	S15	H59	.871	16443	24.8	4	-F		C	0624	80	1.6	T ZX
120 CULG	29	0641	0644	0651	S24	E60	.894	16459	3.8	10	-F		C	0644	60	1.4	ZX
GRP80121	29	0727E	0758	0830D	S15	H58	.862	16443	25.0	63	1F						FK
CULG	29	0727U	0758	0815D	S15	H59	.871	16443	24.9	48D	1F	P	C	0758	110	2.2	KTF
WEND	29	0746E		0830D	S15	H57	.854	16443	25.0	44D	1N	V		190	3.7		
KANZ	29	0819E		0827D	S14	H58	.861	16443	25.0	8D	-F	1					
122 HTPR	29	0855	0903	0920	N12	E09	.243	16452	30.0	25	-F		C	0903	20	.2	E ZX
123 KANZ	29	1015	1020	1030	S24	H80	.969	16442	23.4	15	-N	1					ZX
124 KANZ	29	1020	1020	1027	S14	H61	.885	16443	24.9	7	-F	1					ZX
GRP80125	29	1055+5	1101+6	1116	S15	H60	.879	16443	25.0	21	-N				70	1.5	
KANZ	29	1055	1105	1117	S14	H60	.877	16443	25.0	22	-N	1					
HTPR	29	1058	1103	1106	S15	H64	.908	16443	24.7	8	-F		C	1103	40	.9	
WEND	29	1059	1101	1113	S15	H59	.871	16443	25.0	14	-N		C	1101	68	1.4	
CATA	29	1100	1105	1120	S16	H60	.880	16443	25.0	20	2B	1	C	1105	281	6.1	
ATHN	29	1105E	1107	1118D	S14	H59	.869	16443	25.0	13D	-B	1		1107	66	1.2	
126 WEND	29	1154	1220	1234	S18	E66	.925	16459	4.4	40	-F		C	1220	62		ZX
GRP80127	29	1311+1	1315+2	1330	S19	E51	.809	16458	2.4	19	-F				30	.5	E
HTPR	29	1311	1317	1334	S19	E50	.799	16458	3.3	23	-F		C	1317	20	.3	E
KANZ	29	1311	1315	1329	S19	E51	.809	16458	3.4	18	-F	1					E
HUAN	29	1312		1330	S17	E53	.822	16458	3.5	18	-F	1	C	1323	40	.7	E
128 HUAN	29	1347E		1353D	S16	H63	.902	16443	24.8	60	-F	1	P				E ZX
129 HTPR	29	1353	1354	1356	S19	E50	.799	16458	3.3	3	-F		C	1354	20	.3	E ZX
130 HUAN	29	1625E		1636D	S22	E76	.976	16465	5.4	11D	-F	1	P	1627	20		D ZX
GRP80131	29	1638	1644	1659	S15	H66	.922	16443	24.7	21	-N				30		D
BIGB	29	1638	1644	1659	S15	H66	.922	16443	24.7	21	-B		C	1644	30		
HUAN	29	1643E		1651D	S16	H66	.923	16443	24.7	8D	-F	1	P	1649	25		D
GRP80132	29	2004+7	2008+4	2020	S20	H81	.990	16442	23.8	16	-F				50		A
BIGB	29	2004	2008	2023	S18	H83	.994	16442	23.6	19	-N		C	2008	60		A
HOLL	29	2008E	2009	2016	S19	H80	.988	16442	23.8	8D	-N	3	C				
CULG	29	2010	2012	2017	S21	H75	.972	16442	24.2	7	-F		C	2012	40		
RANY	29	2011	2025	2032D	S21	H83	.994	16442	23.6	21D	-F	3	C				
133 CULG	29	2010	2016	2050U	S14	H68	.934	16443	24.7	48D	?F		C	2016	80		KT ZX
IMP.1 NO :			HOLL	BIGB	PANY												
GRP80134	29	2050+9	2052	2129	S22	E71	.956	16465	4.2	39	-N						FW
			2120														
CULG	29	2050	2052	2131D	S20	E70	.949	16465	5.1	41D	1N		P	2052	250	4.0	FW
BIGB	29	2119	2126	2126	S25	E73	.967	16465	5.4	7	-N		C	2120	30		
GRP80135	29	2051+0	2052+0	2144	S19	E45	.750	16458	2.2	53	-B				130	1.9	
HOLL	29	2051	2052	2132	S16	E47	.760	16458	3.4	41	-B	3	C		111		
BIGB	29	2051	2052	2155	S19	E45	.750	16458	3.2	64	1B		C	2052	150	2.2	
CULG	29	2119	2122U	2122D	S24	E45	.770	16458	3.3	3D	1F		P	2122	80		
136 HOLL	29	2103	2103	2115	S14	E34	.601	16456	2.4	12	-F	3	C		33		ZX
137 CULG	29	2240	2249	2320	S14	H70	.945	16443	24.7	40	?F		C	2249	90		ZX
IMP.1 NO :			HOLL	BIGB													
138 PURP	30	0319	0319	0319D	S19	E42	.717	16458	3.3		-N		C				ZX
139 CULG	30	0621	0621	0623	S16	H72	.956	16443	24.9	2	?F		C	0621	60		V ZX
IMP.1 NO :			PURP														
GPP80140	30	0659+2	0703	0717	S19	E40	.696	16458	2.3	18	-F						
			0711														
CULG	30	0659	0703	0716	S19	E40	.696	16458	3.3	17	-F		C	0703	60	.8	
PURP	30	0701	0711	0718	S19	E40	.696	16458	3.3	17	-F		C				

# H $\alpha$ SOLAR FLARES

NOVEMBER 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	HALE PLAGE REGION	CMP. DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.										
141 KANZ	30	1031	1034	1038	S11	E25	.464	16456	2.3	7	-F	2				ZX
142 BIGB	30	1615	1617	1644	S11	E23	.436	16456	2.4	29	-N	C	1617	30	.3	ZX
143 BIGB	30	1703	1707	1725	S11	E23	.436	16456	2.4	22	-N	C	1707	30	.3	ZX
144 BIGB	30	1807	1808	1816	N20	E62	.894	16456	5.4	9	-N	3 C	1808	20	.4	ZX
145 BIGB	30	1923	1925	1938	N28	E22	.562	16471	2.5	15	-N	3 C	1925	20	.2	ZX
146 BIGB	30	1934	1935	1944	N12	H08	.234	16452	30.2	10	-N	C	1935	20	.2	ZX
147 PALE	30	2009	2012	2021	S16	E72	.956	16467	6.2	12	-F	3 C		20		F ZX
GRP80148	30	2023+2	2025+2	2035	S11	E21	.408	16456	1.4	12	-N			40	.4	
BIGB	30	2023	2025	2039	S11	E21	.408	16456	2.4	16	-N	C	2025	30	.3	
PALE	30	2025	2027	2031	S14	E22	.445	16456	2.5	5	-F	3 C		37		DE
CULG	30	2028	2028U	2031D	S11	E21	.408	16456	2.4	30	-N	P	2028	120	1.3	
149 PALE	30	2026	2027	2030	S15	E73	.961	16467	6.3	4	-F	3 C		11		F ZX
150 BIGB	30	2102	2108	2121	S74	E90	1.000	16476	7.6	19	-B	C	2108	30		ZX
151 PALE	30	2116	2121	2122	N19	E57	.854	16466	5.2	6	-F	3 C		19		ZX
152 BIGB	30	2126	2130	2152	S11	E09	.259	16455	1.6	26	-N	C	2130	30	.3	ZX
GRP80153	30	2149	2150	2153D	S24	E90	1.000	16476	6.7	4	-B					
	00	0000	0000	0000	00	00	.078	16476	31.0				0000			
BIGB	30	2149	2150	2153D	S24	E90	1.000	16476	7.7	40	-B	P	2150	20		
	30	2343	2350													NO FLARE PATROL

"REMARKS":

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

## DAILY FLARE INDICES

Includes all Flares

NOVEMBER 1979			NOVEMBER 1979			NOVEMBER 1979		
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
791101.	111.06	24.0	791111.	206.60	23.9	791121.	70.72	23.9
791102.	77.74	24.0	791112.	766.15	24.0	791122.	61.94	22.3
791103.	135.32	23.8	791113.	70.26	24.0	791123.	129.88	23.1
791104.	111.52	23.1	791114.	160.84	24.0	791124.	76.07	23.7
791105.	461.81	22.6	791115.	374.09	23.8	791125.	37.28	23.4
791106.	355.68	24.0	791116.	423.49	23.9	791126.	24.11	19.5
791107.	250.41	19.8	791117.	127.21	23.5	791127.	45.45	23.7
791108.	360.75	24.0	791118.	120.02	24.0	791128.	22.80	24.0
791109.	278.32	23.3	791119.	57.71	23.5	791129.	36.36	24.0
791110.	781.65	22.7	791120.	54.78	22.7	791130.	37.58	23.9

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