

A. Antalová
Astronomical Institute, Slovak Academy of Sciences,
059 60 Tatranská Lomnica, Czechoslovakia

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ABSTRACT. The continuation (July 1986 - June 1988) of the list of geoeffective LDE solar flares is contained in Table 1. Table 2 gives new data on further flares observed in the analyzed period of solar cycles 20 and 21 (January 1969 - June 1986). The data in Table 2 refer to a) newly identified weak LDE flares of the SXR class C, b) new flares with SXR duration of 2 hours, c) supplemental data on some of the mightier LDE flares, published earlier.

ДОПОЛНЕНИЕ К КАТАЛОГУ ВСПЫШЕК С МЕДЛЕННЫМ СПАДОМ МЯГКОГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ (ИЮЛЬ 1986 - ИЮНЬ 1988) - ЧАСТЬ 2. Продолжение списка геоэффективных ЛДЭ вспышек (июль 1986 - июнь 1988) находится в таблице 1. Таблица 2 содержит дополнительные данные о ЛДЭ вспышках за всего анализированного периода 20 - ого и 21 - ого солнечных циклов (январь 1969 - июнь 1986). Данные таблицы 2 касаются следующих случаев ЛДЭ вспышек а) ново-отождествленных слабых ЛДЭ вспышек рентгеновского класса C, б) новых ЛДЭ вспышек, которые имеют длительность 2 часа в мягком рентгене, в) укомплектовывание данных для некоторых, ранее опубликованных мощных ЛДЭ вспышек.

DOPLNOK KU KATALÓGU LDE ERUPCIÍ (2. ČASŤ). Pokračovanie zoznamu geoeфективných LDE erupcií (júl 1986 - január 1988) je uvedené v Tabulke 1. Tabulka 2 obsahuje nové údaje o ďalších LDE erupciách z celého analyzovaného obdobia 20. a 21. slnečného cyklu (január 1969 - jún 1986). Údaje Tabulky 2 sa týkajú nasledovných prípadov LDE erupcií: а) novoidentifikovaných sla-

Table 1

Long decay Soft X-ray flares in the 22nd cycle
(July 1986 - June 1988)

NO	DATE (month-day)	EVENT	START UT	DUR hr	GROUP No	POSITION	IMP	SID	No SGD
1 9 8 6									
001	10 19	Ha	00:15	1.5	4750	N23 E62	2N	3/1	508/I
		SXR	00:15	2.0	BP-EKI	210	M4.7		512/II
1 9 8 7									
002	03 13	Ha	21:25	0.4	4779	S35 E90	1B	1-/1	517/II
		SXR	21:25	4.0	x	060	C5.5		513/I
003	04 15	Ha	11:34	1.7	4787	S32 W35	SN	1/3	518/II
		SXR	11:34	2.0	BP	135	C3.5		514/I
004	04 16	Ha	15:45	1.0	4787	S31 W51	1B	2/5	518/II
		Ha	15:44	2.3	4790	S32 W44	1B		514/I
		SXR	15:44	2.5	BP	135	M1		
005	04 21	SXR	18:24	2.5	4797	N05 300	C1.4/AP	---	518/II
006	05 24	Ha	12:09	0.2D	N26 W37	4811	SF		519/II
		Ha	12:29	0.8D	4811	N24 W41	SN	1+/3	515/I
		SXR	12:10	3.0	D-EKC	330	C2		
007	05 26	Ha	19:41	0.5	N811	N28 W70	1N	---	519/II
		SXR	19:41	2.0	D-EKI	330	C8.1		515/I
008	05 26	Ha	23:56	0.1	4811	N28 W71	1N	---	519/II
	27	Ha	01:32	0.2	4811	N22 W71	SF		515/I
	26	SXR	23:56	3.0	D-EKI	330	C2.9		
009	05 28	SXR	09:49	2.0	4811	330	C1.9	---	519/II
010	05 29	SXR	01:38	3.0	4811	330	C1.7	1-/1	519/II
011	05 29	SXR	22:00	4.0	4811	330	C1	---	519/II
012	06 11	SXR	01:40	2.0	---	N47 E90	C3.9	1-/1	520/II
013	07 22	Ha	15:18	0.6	4826	S29 W14	SF	2/1	517/I
		Ha	16:20	0.7	4826	S29 W12	SN	1/3	521/II
		SXR	15:18	2.0	BF	250	C2		517/I
014	07 22	Ha	19:15	0.8	4826	S28 W16	SF	---	517/I

014	07 22	Ha	20:49	0.9D	4826	S28 W16	SF	1-/3	521/II	
		SXR	20:00	2.0	BF	250	G1		517/I	
015	07 24	Ha	00:22	1.0	4826	S28 W31	1N	1-/1	517/I	
		SXR	00:22	2.0	BF	250	C3.7		521/II	
016	07 24	Ha	09:55	1.0	4826	S28 W36	1B	3/5	517/I	
		SXR	09:55	2.0	BF	250	M3.0		521/II	
017	07 25	Ha	22:00	1.0	4829	S19 W29	SF	1-/1	517/I	
		Ha	21:07	1.1	4826	S28 W59	1N		1-/3	521/II
		SXR	21:07	2.0	B	230,250	C5.5			
018	08 03	SXR	00:02	2.0	4835?	S23 E40 040	C3	1-/3	518/I	
019	08 10	Ha	03:00	0.1	4839	S21 E65	SF	2+/3	522/II	
		SXR	02:53	2.0	B-CAO	285	C8.3		518/I	
020	08 13	Ha	13:17	0.6	4842	S23 E68	SN	1-/3	518/I	
		SXR	13:38	2.0	B-DSO	240	M1.2		522/II	
021	08 19	Ha	10:00	1.2	4839	S26 W47	1N	1/3	518/I	
		SXR	10:00	3.0	BF-CSO	285	C9.4		522/II	
022	08 23	Ha	22:35	1.2	4845	N14 E52	1B	---	518/I	
		SXR	22:35	2.0	B-DR0	130	M1.3		522/II	
023	08 29	SXR	02:19	2.0	4847?	S21 E54 040	C3.6	---	522/II	
024	09 01	Ha	15:28	1.7	4848	S26 E59	1F	1-/5	519/I	
		SXR	15:27	2.0	BX0	010	C6.6		523/II	
025	10 17	Ha	22:07	1.7	4870	S24 W40	1N	1-/3	524/II	
		Ha	22:54	1.2	4869	S26 W80	1N		520/I	
		SXR	22:07	2.5	AF-EAO B-DSO	240 210	C7.7			
026	10 28	Ha	01:25	1.6	4878	S25 E59	1N	1-/1	524/II	
		SXR	01:25	2.0	B-DSO	340	C2.3		520/I	
027	10 30	Ha	20:03	0.6	4881	S22 W51	SF	---	524/II	
		Ha	21:27	0.8	4875	N30 W04	SF		520/I	
		Ha	23:01	0.1	4875	N34 E04	SF			
		SXR	21:02	3.0	B-ESO	360	C3.3			
028	11 06	Ha	19:49	2.3	4886	S27 E60	2N	2/1	525/II	
		SXR	19:49	2.0	B-A	200	C4.3		521/I	
029	11 07	Ha	20:28	0.3	4875	N31 W90	1N	---	525/II	
		SXR	19:00	5.0	B-EAO	360	M1.2		521/I	
030	11 19	Ha	07:38	1.0	4891	S22 E44	1N	3/3	525/II	
		Ha	09:03	0.2	4890	S25 W18	SN/C2.9		521/I	
		Ha	09:11	0.5	4891	S22 E44	SF			
		SXR	07:41	2.0	B-DAO	050	M1.1			
031	11 20	Ha	04:10	1.1	4891	S22 E35	1N	3/3	525/II	

031	11 20	Ha	06:05	0.6	4891	S22 E33	SF		521/I
		SXR	04:12	2.0	B-DSO	050	M1.3		
032	11 20	Ha	23:14	0.1	4891	S21 E25	SF		525/II
		Ha	23:31	1.8	4891	S22 E25	1N	2+/1	521/I
		SXR	23:31	2.0	B-DSO	050	M1.3		
033	11 21	Ha	17:55	1.1	4891	S22 E16	2B	2/3	525/II
		SXR	17:55	2.0	B-DKI	050	M3.5		521/I
034	11 24	Ha	19:14	1.0	4895	N28 E41	1F	---	525/II
		SXR	19:14	4.0	AP	350	C1.2		521/I
035	11 26	Ha	01:38	0.3	4895	N29 E20	SN	---	525/II
		Ha	02:36	0.1D	4895	N29 E20	1N	---	521/I
		Ha	03:08	0.3	4895	N31 E23	SN	1/3	
		Ha	03:10	0.7	4891	S21 W47	1N		
		SXR	03:10	2.0	B-CSO A-AX	050 350	C3.3		
036	12 11	SXR	23:00	2.0	4901?	B-CSO S21	C2 240	1-/1	526/II
					4907?	B-BX0 S23	110		
037	12 12	SXR	00:57	3.0	4906	S29 E90	C3	1-/1	526/II
					A-HA	050			
038	12 12	SXR	16:33	3.0	4906	S29 E90	C5.3	2/3	526/II
039	12 25	SXR	01:56	2.0	4912?	S33 E72	C1.4	1-/1	526/II
					AP-HA	260			523/I
040	12 25	Ha	17:34	0.2	4912	S32 E69	SF	---	526/II
		Ha	19:03	0.7	4912	S32 E71	SF		521/I
		SXR	17:34	3.0	B-CSO	260	C2.5		523/I
041	12 26	Ha	19:40	2.0	4912	S34 E64	1N	2/5	526/II
		SXR	19:40	4.0	B-CSO	260	M1.1		522/I
042	12 29	Ha	16:30	0.5	4912	S34 E31	SF	---	526/II
		Ha	19:50	0.2	4912	S36 E35	SF	---	522/I
		SXR	16:30	4.5	BG-EKO	260	C1		
1 9 8 8									
043	01 01	Ha	09:10E	0.4D	4912	S37 E07	SF	1-/1	527/II
		Ha	09:40	D	4912		SF/C2		523/I
		SXR	09:40	3.0	BP-EHI	260	C1-C2		
044	01 02	Ha	21:11	3.4	4912	S35 W18	3N	2+/5	527/II
		SXR	21:11	10.0	BP-EHO	260	X1.4		523/I
045	01 09	Ha	02:21	0.4	4921	S24 E33	1N	1-/1	527/II
		SXR	02:21	2.0	B-DSO	110	C6.5		523/I
046	01 09	Ha	23:18	1.7	4919	N32 E14	1N	1-/1	527/II
		SXR	23:18	2.0	BP-CSO	130	C3.7		523/I

047	01 11	Ha	22:27	0.9	4919	N31 W13	SF	1-/1	527/II
		SXR	22:27	3.0	BP-EAO	130	C4.0		523/I
048	02 05	Ha	11:48E	1.6D	4943	N28 E13	1N	---	528/II
		SXR	11:25	2.0	B-CSO	130	C2.3		524/I
049	02 06	SXR	14:25	4.0	4946A?	N30-130	C1.2	---	528/II
050	02 20	Ha	04:05	1.2	4951	S08 W71	1B	2+/3	528/II
		SXR	04:05	2.0	B-DSO	030	M1.1		524/I
051	03 12	Ha	00:23	0.3	4964	S21 E87	SF	---	529/II
		Ha	01:38	0.1	4964	S24 E84	SF	2/3	525/I
		Ha	01:55E	2.6D	4964	S22 E87	SN		
		SXR	00:23	2.0	BF-ESO	310	C7.3		
052	03 12	Ha	04:23	0.1	4964	S21 E84	SF	2/3	529/II
		SXR	04:23	2.0	BF-ESO	310	C6.5		525/I
053	03 14	Ha	07:17	0.2	4964	S26 E62	SF	---	529/II
		Ha	07:37	1.8	4964	S27 E62	SF	---	525/I
		Ha	08:05	0.5	4967	S22 E48	1N	1/5	
		SXR	08:05	2.0	B-CSO	310	C8.7		
054	03 14	Ha	22:18	0.1	4964	S27 E53	SF/C1.0	---	525/I
		Ha	22:34	0.2	4964	S24 E47	SF/C2.2	1-/1	529/II
		Ha	23:01	0.7	4964	S27 E55	1N/C6.6	2/3	
		Ha	23:12	1.5	4964	S23 E49	SF		
		SXR	22:34	2.5	BG-EKI	310	C6.6		
055	03 15	Ha	16:07	1.2	4964	S25 E39	SN	1/5	525/I
		SXR	16:07	2.0	BGD-EKI	310	M6.5		529/II
056	03 16	Ha	04:30E	0.5D	4964	S25 E31	SN/M1.1	2+/3	525/I
		Ha	05:44	0.6	4964	S23 E29	SN/M2.4	3/3	529/II
		Ha	07:27	0.5	4964	S24 E28	1B/C4.0	1+/1	
		SXR	04:17	4.5	BGD-FKI	310	M2.4		
057	03 16	Ha	18:26	1.5	4964	S23 E22	1B/M8.2	---	525/I
		Ha	19:02	0.5	4968	S16 E12	SF	2/5	529/II
		Ha	19:35	0.2	4964	S26 E23	SN	1/3	
		Ha	19:35	0.3	4969	S26 E13	SF/C3.3		
		SXR	18:26	2.0	BGD-FKI	310	M8.2		
058	03 16	Ha	21:25	0.6	4964	S24 E20	1N/M2.4	2/3	525/I
		Ha	22:35	0.3	4964	S23 E18	SN/C5.0	1-/1	529/II
		Ha	23:38	0.3	4964	S23 E18	SB/C5.7	1-/1	
		SXR	21:25	2.0	BGD-FKI	310	M2.4		
059	03 17	Ha	04:07	0.5	4964	S24 E18	SN/C7.7	2+/3	525/I
		Ha	05:07	0.3	4964	S23 E16	SF	---	529/II
		Ha	05:26	0.2	4964	S22 E20	SF/C7.6	2/3	
		SXR	04:07	2.0	BGD-FKI	310	C7.7		

060	03 17	SXR	12:03	2.0	4964?	S24-310	C9.9	2/5	529/II
061	03 17	Ha	20:46	1.2	4964	S23 E10	1N/M2.2	2+/5	525/I
		Ha	22:21	0.5	4964	S23 E06	SF/C4.8	1-/1	529/II
		SXR	20:46	2.0	BD-FKI	310	M2.2		
062	03 18	Ha	01:48	0.6	4964	S24 E06	1N/C7.1	1-/1	525/I
		Ha	02:33	0.1	4965	N20 E01	SF	---	529/II
		Ha	02:34	0.3	4964	S23 E05	SF/C2	---	
		Ha	03:16	1.0	4964	S24 E06	1N/C2.0	---	
		SXR	01:48	2.0	BGD-FKI	310	C7.1		
063	03 18	Ha	11:23E	0.6D	4964	S26 E02	SN	1-/3	525/I
		SXR	11:00	2.0	BGD-FKI	310	C3.1	529/II	529/II
064	03 20	Ha	21:10	1.8	4972	N22 E54	2B/C5.5	1-/3	525/I
		SXR	21:10	3.0	AP-AX	220	C5.5		529/II
065	03 21	Ha	00:21	0.2	4974	S34 E83	SF	1-/1	525/I
		SXR	00:15	2.0	B-BX0	180	C5.5		529/II
066	03 23	Ha	04:10	0.3D	4964	S25 W47	SF	1-/3	525/I
		SXR	04:10	2.0	D-DHI	310	C1		529/II
067	03 23	Ha	15:36	1.3	4964	S24 W58	SN	1-/3	525/I
		SXR	15:36	2.0	D-DHI	310	C5		529/II
068	03 23	Ha	22:26	1.3	4965	N20 W71	SN	1-/1	525/I
		SXR	21:42	2.0	B-DS0	310	C3.8		529/II
069	03 25	Ha	05:21E	0.1D	4965	S27 W75	1N	3/3	525/I
		Ha	05:29	0.8	4964	S23 W90	1N	3/3	529/II
		SXR	05:15	2.0	A-AX	310	M2.0		
070	03 25	Ha	18:27	0.3	4964	S28 W80	SF	---	525/I
		Ha	19:10	0.2	4964	S24 W88	SF		529/II
		Ha	19:37	0.2	4964	S24 W88	SF	1/1	
		SXR	19:37	2.0	B-DAO	310	C1.0		
071	03 25	Ha	21:27	0.1	4964	S28 W82	SF	2/3	525/I
		Ha	22:04	0.1	4978	S21 E87	SF		529/II
		Ha	22:10	0.2	4964	S26 W83	SF		
		SXR	21:41	1.5	B-DAO	310	C4.5	2/3	
072	03 29	Ha	00:49	1.5	4975	N21 E29	2B	1-/3	525/I
		SXR	00:41	2.0	BG-EAI	150	C3.9		529/II
073	04 04	SXR	10:54	2.0	4975	N21-D/DAO	C3.8	1/3	530/II
074	04 07	Ha	19:06	1.6	4982	N24 E13	SF	---	526/I
		SXR	19:06	2.0	B-DAO	030	C2.4		530/II
075	04 07	Ha	23:11	1.0	4982	N25 E12	SF	1-/1	526/I
		SXR	23:11	2.0	B-DAO	030	C3.9		530/II
076	04 08	Ha	14:36	0.3	4983	S32 E54	SF	---	526/I
		SXR	14:36	2.0	B-DAO	330	C1		530/II

077	04 12	Ha	17:07E	0.5D	4990	N24 E70	SN	1/5	526/I
		SXR	17:07	2.0	B-FAI	270	M1.4		530/II
078	04 13	Ha	22:52	0.1	4990A	N24 E60	1N	1-/1	526/I
		Ha	23:57	0.5	4990	N23 E52	1N		530/II
		SXR	22:52	2.0	B-EAO	270	C3.7		
079	04 15	Ha	20:00	1.2	4989	S17 W08	2B	2/5	526/I
		SXR	20:00	2.0	B-DAO	310	M1.5		530/II
080	04 17	SXR	08:14	2.0	4990?	N23 E03	C6.9	2+/3	526/I
					BGD-FKI	270			
081	04 17	Ha	21:58	1.9	4990	N21 W07	SN	1-/3	526/I
		SXR	21:57	1.0	BGD-FKI	260	C7.9		530/II
082	04 18	Ha	01:07	0.1	4996	S34 W55	2N	2+/3	526/I
		SXR	00:21E	1.5	B-CSO	320	M3.1		530/II
083	04 18	Ha	02:56	0.2	4990	N20 W10	1F/C3.7	---	526/I
		Ha	05:09	0.4	4990	N20 W14	1F/M1.7	3/5	530/II
		SXR	02:55	2.0+2.0	B-FKI	270			
084	04 18	Ha	20:03	1.0	4990A	N22 W04	SN/C2.4	---	526/I
		SXR	20:03	2.0	BF-FKI	260	C2.4		530/II
085	04 18	Ha	20:40	1.0	4996	S32 W62	1F	---	526/I
		SXR	20:40	2.0	B-CSO	320	C2		530/II
086	04 19	Ha	02:26	0.9	4990	N22 W19	1N	1/3	526/I
		SXR	02:25	2.0	BG/FHI	270	C5.5		530/II
087	04 19	Ha	11:53	0.8	4990	N21 W21	SF	1+/3	526/I
		SXR	11:53	2.0	BG-FHI	270	C2		530/II
088	04 19	Ha	18:46	0.2	4989	S17 W65	SF	2+/3	526/I
		SXR	18:58	2.0	A-HS	320	C8.1		530/II
089	04 20	Ha	01:14	1.0	4990	N22 W30	1F	1-/3	526/I
		SXR	01:17	2.0	B-FKI	270	C2.2		530/II
090	04 20	Ha	10:01	1.6	4990	N23 W37	SN	2/3	526/I
		SXR	10:02	3.0	B-FKI	270	M1.0		530/II
091	04 21	Ha	09:14	1.0	4990	N22 W52	2B	2+/5	526/I
		SXR	09:16	2.0	B-FKI	270	M2.3		530/II
092	04 21	Ha	14:16	0.3	4990	N21 W48	SN/1N	1+/5	526/I
		SXR	14:16	2.0	B-FKI	270	C4.2		530/II
093	04 24	Ha	01:13		4990	N22 W74		2+/3	526/I
		SXR	01:08	3.0	B-BSO	270	M1.7		530/II
094	04 25	Ha	01:14		5002?	S21 E75	x	1-/3	526/I
		SXR	01:14	2.0	BF-DSO	100	C2.2		530/II
095	05 03	Ha	15:36	0.6	5005	S20 W40	1F	1/3	527/I
		SXR	15:37	2.0	BG-D	100	C5.0		531/II

096	05 04	Ha	02:05	1.0	5002	S18 W44	1N	1/3	527/I	
		SXR	02:05	2.0	B-BXO	100	C5.1		531/II	
		IV	02:10	1.5						
097	05 17	Ha	05:28	x	5014?	S19 W78	x	1-/3	527/I	
		SXR	05:23	2.0	AF-HF	320	C1.5		531/II	
098	05 17	Ha	10:06	0.2	5018	S18 W38	SF/C3	---	527/I	
		Ha	19:27	x	5018?				2+/5	531/II
		SXR	19:27	5.0	B-DAO	290	M6.0			
	18	Ha	01:39	0.1	5018	S18 W41	SF	---		
	17	IV	20:09	0.5						
099	05 23	Ha	00:56	0.4	5027	S26 E64	SF/B9	---	527/I	
		Ha	01:36	0.9	5027	S26 E63	SF/B9		531/II	
		Ha	02:53	0.5	5027	S23 E60	SN/C8.6		1/3	
		SXR	02:53	3.0	BGD-EKI	100	C8.6			
100	05 23	Ha	05:25	0.7	5027	S24 E62	SN/C7.9	2/3	527/I	
		SXR	05:28	3.0	BGD-EKI	100	1N/C7.9		531/II	
101	05 25	Ha	15:08	1.3	5027	S24 E32	SF/C7.5	2/3	527/I	
		SXR	15:08	2.0	BGD-EKC	100	C7.5		531/II	
102	05 25	Ha	21:08	0.2D	5027	S24 E32	SF/C2.0		527/I	
		Ha	21:53	0.8	5027	S27 E28	SF/C2.0		1-/1	
		Ha	22:50	0.3D	5027	S24 E28	SF/C3.1		1-/1	531/II
		Ha	23:50	0.6	5027	S25 E26	SF/C2.5		1-/3	
	05 26	Ha	00:58	0.9	5027	S27 E30	1N/M1.0	2+/3		
05 25	SXR	21:08	5.0	BGD-EKC	100	C1				
103	05 26	Ha	20:32	1.6	5027	S26 E16	SF	---	527/I	
		Ha	20:25		5027	S24 E15	SN/C5.3		1-/3	531/II
		SXR	20:32	2.0	BGD-EKC	100	1F/M1.1		1+/3	
104	05 28	Ha	23:18	0.3	5027	S24 W12	SF/C3.0	1-/1	527/I	
		Ha	23:49	0.3	5027	S24 W12	SF		531/II	
		SXR	23:18	2.0	BGD-EKC	100	C1			
105	05 30	Ha	19:47	0.6	5027	S24 W38	1N/C8.9	1-/3	527/I	
		SXR	19:47	2.0	BGD-FKC	100	C8.9		531/II	
106	05 31	Ha	00:18	0.6	5027	S25 W40	SF/C5.7	1-/3	527/I	
		SXR	00:18	2.5	BGD-FSC	100	C5.7		531/II	
107	06 01	Ha	06:49	0.7	5031-EHO	N28 E49	SF	---	528/I	
		Ha	07:12	0.2	5032	N16 E46	SB		1-/3	531/II
		SXR	07:11	2.0	B-ESO	350	C2.7		532/II	
108	06 01	Ha	15:40	0.9	5034	S27 E80	1N	1-/3	528/I	
		SXR	16:04E	2.0	B-DAI	330	C3.1		532/II	
109	06 02	Ha	18:25E	0.3D	5027	S23 W70	SF	2/3	528/I	
		SXR	18:04	2.0	BGD-FAI	105	C3.0		532/II	

110	06 04	Ha	06:14	x	<u>5027</u>	S26 W90	x	2/5	528/I
		Ha	07:07E	0.9D	5035	N14 W34	1F		532/II
		SXR	06:14	3.5	B-CSO	040	M3.6		
111	06 04	Ha	19:01	0.5	5032	N17 E03	SF	---	528/I
		SXR	19:01	2.0	BG-EAI	010	C2		532/II
112	06 05	Ha	17:46E	0.5D	<u>5037</u>	N15 W04	1F	2/1	528/I
		Ha	17:51	0.2	5038	S25 W19	SF		532/II
		SXR	17:36	2.0	B-CRO	355	C2.4		
113	06 05	Ha	20:10E	0.5D	5032	N18 W14	1N	1-/3	528/I
		Ha	20:08	1.3	5031	N28 W03	1F		532/II
		SXR	20:14E	2.5	B-CHO	358	C8.6		
114	06 06	Ha	04:48	0.2	5031	N23 W05	SF	1-/5	528/I
		Ha	04:50	0.9	<u>5032</u>	N17 W18	1N/C2.3		532/II
		Ha	05:22	0.1	5032	N25 W05	SF		
		Ha	06:10	0.1	5032	N18 W16	SF		
		SXR	04:50	2.0	B-DSI	005	C2.3		
115	06 09	Ha	16:49	1.3	5032	N18 W61	1F	2/3	528/I
		Ha	16:51	0.1D	5037	N15 W56	1F/C9.3		532/II
		SXR	16:49	2.0	BP-CSO	355	C9.3		
116	06 21	Ha	05:25	0.3	5054	S26 E27	SN	1+/5	528/I
		Ha	06:09E	0.5D	5054	S25 E25	SF		532/II
		Ha	06:09E	1.0D	5047	S17 W02	1N		
		Ha	06:09	1.3D		N24 W16	SN		
		SXR	05:24	2.5	B-BX0	120	C1		
117	06 22	Ha	13:44	0.6	5047	S17 W24	SF/C3.7		528/I
		Ha	15:13E	0.2D	5047	S18 W25	SF		p. 71
		Ha	16:47	0.1	5047	S18 W25	SF/C5.9	1/5	532/II
		Ha	23:44E	0.2D	5047	S18 W30	SN		
		SXR	14:20	3.0	BG-EKI	150	C1		
SID	14:20	0.7					1/5		
118	06 23	Ha	09:07	0.5	5047	S18 W32	1B	2+/5	528/I
		Ha	10:33	0.8	5047	S17 W31	SF		532/II
		Ha	11:35	0.6	5047	S18 W36	SF		
		SXR	08:56	3.0	BGD-EKC	150	X1.6		
119	06 23	Ha	17:50	1.0	5047	S17 W37	1B	3/5	528/I
		Ha	19:38	0.4	5047	S17 W36	SF		532/II
		SXR	17:53	3.0	BGD-EKC	150	M8.1		
120	06 24	Ha	00:13	0.7	5047	S17 W40	SF	1-/5	528/I
		SXR	00:13	2.0	D-EKC	150	C3.6		532/II
121	06 24	Ha	04:16	2.3	5047	S17 W44	2B	3+/5	528/I
		SXR	04:18	3.5	D-EKC	150	X1.3		532/II

122	06 24	Ha	16:03	0.9	5047	S17 W52	2B	2/5	528/I	
		SXR	16:03	2.0	D-EKC	150	X2.4		532/II	
123	06 24	Ha	17:07E	1.4	5047	S17 W52	1B	3/5	528/I	
		SXR	16:44	2.0	D-EKC	150	X2.4		532/II	
124	06 25	Ha	06:45	0.7D	5047	S20 W60	2N	1-/3	528/I	
		SXR	06:18	2.0	BGD-EKC	150	M1.7		532/II	
125	06 25	Ha	16:36	0.3	5060	S20 E87	SN	2+/5	528/I	
		SXR	16:36	2.5	BD-EKC	005	M6.0		532/II	
126	06 26	SDF	15:00E	1.3	5060			---	532/II	
		Ha	15:29E	0.3D	5060	S22 E76	SF		528/I	
		Ha	16:08	0.1	5060	S21 E71	SF			
		SXR	15:00E	9.0	BGD-EKC	005	M1			
127	06 27	Ha	02:49E	1.1D	5060	S20 E66	SN	2+/5	528/I	
		SXR	02:49E	2.0	BGD-FKC	005	M1.1		532/II	
128	06 28	Ha	04:11	0.2	5060	S22 E52	1N	2/5	528/I	
		Ha	04:18	0.9	5060	S21 E51	1N		532/II	
		Ha	05:58	0.2	5060	S16 E50	SF			
		SXR	04:44	2.0	BGD-FKC	005	M1.3			
129	06 28	Ha	10:58	0.4	5062	N15 E49	SF	1/5	528/I	
		Ha	11:09	0.4	5060	S21 E47	SN/M4.5		532/II	
		Ha	12:04	0.3	5060	S16 E48	SF			
		SXR	11:10E	2.0	BGD-FKC	005	M4.5			
130	06 28	Ha	19:55	0.7	5060	S21 E42	SB/M2.1	2/5	528/I	
		Ha	21:34	1.2	5060	S18 E40	1N		532/II	
		SXR	19:55	2.0	BGD-FKC	005	M2.1			
131	06 29	Ha	00:05	0.3	5062	N13 E46	SF	---	528/I	
		Ha	00:17	1.4	5060	S20 E36	1N/M2.6		2+/5	532/II
		Ha	02:08	0.8	5060	S24 E35	1N/C3.7		1-/1	
		SXR	00:28	2.5	BGD-FKC	005	M2.6			
132	06 29	Ha	07:22	1.5	5058A	S19 E24	2B/M6.5	3/5	528/I	
		Ha	07:37	0.1	5060	S18 E34	SN		532/II	
		Ha	09:18	0.2	5060	S17 E32	SN		1/1	
		SXR	07:34	2.0	B-DAI	010	M6.5			
133	06 29	Ha	20:15	1.1	5060	S19 E27	1B/M4.1	2+/5	528/I	
		Ha	20:22	0.5	5062	N13 E34	SN		532/II	
		SXR	20:15	2.0	BGD-FKC	005	M4.1			

Table 2

Supplement of the LDE flares in the 20th and 21st cycles

No	Suppl No	Date (mo-day)	Event	Start UT	Dur hr	Group No	Position	Imp	SID	SGD
1 9 7 0										
01	104 ₄	01 18	Ha	14:21	0.5	10525	S14 W39	SN	1/5	311/II
			SXR	14:21	2.0	BP-C	077	M1.3		
	212	07 28	Ha	00:39	0.3	10851	N06 E18	SN	1-/1	317/II
			SXR	00:32	2.0	BP	024	C5.5		313/I
	214	07 30	Ha	19:27	2.6	10847	S22 W37	1N	1/3	317/II
			Ha	21:22	0.6	10851	N05 W22	SF		313/I
			SXR	21:12	2.0	BP	041	C5.7		
02	214 ₁	07 31	Ha	21:30	0.3	10860	N13 E55	SF	---	317/II
			Ha	23:26	0.1	10860	N13 E54	SF		313/I
			SXR	20:40	3.0	B	295	C2		
03	216 ₄	08 11	Ha	21:31	0.3	10865	N18 W35	SN	1-/3	318/II
			SXR	21:33	2.0	D	239	C4.4		314/I
	218	08 12	Ha	18:58	0.7	10865	N17 W50	SN	1-/3	318/II
			Ha	19:59	0.6	10865	N18 W50	SF		314/I
			Ha	20:21	1.1	10882	N11 E90	1B	3/3	
			SXR	20:05	3.0	D	097	X4.9		
04	218 ₁	08 13	Ha	13:53	0.5	10882	N11 E90	1B	2-/5	318/II
			SXR	14:03E	2.0	D	097	M2.1		314/I
05	218 ₂	08 13	Ha	18:55	0.7	10865	N18 W63	SB	1+/5	318/II
			SXR	18:52	2.0	D	239	C2		314/I
06	218 ₃	08 13	Ha	23:00	0.3	10865	N18 W68	SF	1/5	318/II
		14	Ha	00:26	0.5	10865	N18 W66	SN	1-/3	314/I
			SXR	22:55	2.0	D	239	M6		
07	218 ₄	08 14	Ha	03:59	0.4	10865	N18 W69	SN	2-/5	318/II
			SXR	03:55	2.0	D	239	M5		314/I
08	218 ₅	08 14	Ha	06:55	0.3	10865	N18 W73	1N	2/5	318/II
			SXR	06:27E	2.0	D	239	M4.3		314/I
09	220 ₁	08 15	Ha	10:49	0.9	10868	N21 W46	1F	1/1	318/II
			SXR	10:18	2.0	B - E	200	M1.3		314/I
	221	08 15	Ha	23:21	0.4D	10865	N18 W86	SN	1+/3	318/II
		08 16	Ha	00:54	0.5	10865	N18 W90	1F	1/3	314/I
		08 15	SXR	23:22	2.0	D	239	M9.9		
		08 16	SXR	01:03	2.0			M4.7		

010	226 ₁	08 19	Ha	10:38	0.3	10882	N07 E11	SN	2/5	318/II
			SXR	09:50	2.0	D	089	M2.6		314/I
011	229 ₂	08 21	Ha	04:38	0.4	10887	N20 E15	SN	1/1	318/II
			SXR	04:20	2.0	B - D	073	C2		314/I
012	229 ₃	08 24	Ha	06:56	0.9	10887	N19 W35	SN	---	318/II
			SXR	06:56	2.0	B - D	073	C2		314/I
013	229 ₄	08 27	Ha	03:53	0.1	10913	N22 E90	SN	---	318/II
			SXR	03:20	2.0	BP	276	C1		314/I
	230	08 27	Ha	12:48	3.1	10913	N19 E88	SN	---	318/II
			SXR	13:19	1.0	BP	276	M1.2		314/I
			Ha	14:29	0.6	10916	N11 W54	SF	1+/5	
			SXR	14:06	3.0	AP - J	030	M5.1		
014	230 ₁	08 28	Ha	06:14	0.6	10913	N19 E81	1N	1/5	318/II
			Ha	07:16	0.1	10913	N18 E75	SN		314/I
			SXR	06:11	2.0	BP	269	M1.3		
015	230 ₂	08 28	Ha	22:17E	0.4D	10913	N22 E69	1N	1-/3	318/II
			SXR	22:12	2.0	BP	276	M1.3		314/I
016	230 ₃	08 30	Ha	18:58	0.2	10918	N19 E76	SF	---	318/II
			SXR	18:00	2.0	AP- H	243	C2		314/I
017	230 ₄	08 31	Ha	18:01	0.1	10917	N08 W71	SN	---	318/II
			SXR	18:10	2.0	AP - J	030	C2		314/I
018	231 ₃	09 02	Ha	04:39	0.5	10915	S05 E17	SN	1-/1	319/II
			SXR	04:00	2.0	B - B	265	C6		315/I
	234	09 05	Ha	15:32	0.6	10922	N23 E39	1B	1+/5	315/I
			SXR	15:35	1.0	B - E	199	M3.4		319/II
			Ha	16:20	0.6	10918	N16 W02	SF		
			Ha	16:46	0.9	10918	N14 W01	SF		315/I
			Ha	17:52	0.7	10918	N15 W04	SF		
			Ha	18:18	0.5	10918	N13 W03	SF		
			SXR	16:20	2.5	AP	243	C5.6		319/II
019	234 ₃	09 07	Ha	11:08	0.4	10915	S08 W58	SN	1-/3	319/II
			SXR	11:08	2.0	A - A	265	C5.1		315/I
020	234 ₄	09 09	SXR	19:25	2.0	x	S?	C3.2		319/II
021	235 ₂	09 13	SXR	19:00	3.0	10925	S20 W55	C2	---	315/I
							190			
022	235 ₃	09 16	SXR	06:06	2.0	x	x	C	---	319/I
023	235 ₄	09 22	Ha	21:32	0.1D	10959	N11 E47	SN	---	315/I
			SXR	19:00	3.0	BP+f11	323	C2	I-p.67	319/I
024	235 ₅	09 23	Ha	18:22	0.4	10959	N13 E37	SN	1-/3	315/I
			SXR	18:20	2.0	BP	323	C3		319/I

025	235 ₆	09 24	Ha	16:57	0.2	10959	N24 E32	SN	---	315/I
			Ha	16:38	1.5	10948	N08 W10	1F		319/II
			SXR	17:00	2.0	BP	323	C2		
026	235 ₇	09 26	Ha	04:20	0.4	10959	N22 E04	SF		315/I
			Ha	04:53	0.5	10959	N22 E04	SF		319/II
			Ha	05:00	0.9	10959	N22 E03	SN		
			Ha	06:03	0.7	10959	N22 E03	SN		
			Ha	07:26	1.0	10959	N22 E02	SN	1-/3	
			SXR	05:00	3.0	BP	323	C7		
027	240 ₄	10 07	Ha	21:53	0.2	10971	S09 W13	SF	1-/5	316/I
			SXR	21:53	2.0	BY	182	M1.3		320/II
028	241 ₅	10 23	Ha	16:09	0.2	11002	N18 E86	SN/C6	1/1	316/I
			Ha	16:58	0.9	11002	N18 E84	1N		320/II
			Ha	17:26	0.4	11002	N12 E85	SN		
			SXR	16:09	3.0	D	243	M1.7		
029	244 ₁	10 24	Ha	16:34	1.0	11002	N18 E68	1F	---	316/I
			SXR	16:33	2.0	D	243	C4.4		320/II
030	246 ₁	10 25	Ha	09:09	0.1	11002	N14 E42	SN		316/I
			Ha	09:40	0.8	11002	N17 E61	SN	1-/1	320/II
			SXR	08:43	2.0	D	243	C5		
031	247 ₁	10 25	Ha	15:08	0.9	11002	N16 E57	SN	1/5	316/I
			SXR	15:08	2.5	D	243	C9.4		320/II
032	247 ₂	10 25	Ha	23:37	0.6	11002	N12 E50	SN	1-/1	316/I
			SXR	22:57E	3.0	D	243	M1.3		320/II
033	247 ₃	10 26	Ha	02:40	0.5	11002	N16 E49	SN	1+/3	316/I
			SXR	02:13E	2.0	D	243	M5.6		320/II
034	248 ₂	10 26	Ha	14:23	0.8	11012	S14 E90	1N	---	316/I
			SXR	14:27	2.0	AP - J	198	M1.7		320/II
035	249 ₁	10 27	Ha	11:44	0.5	11002	N18 E35	SN	3/5	316/I
			SXR	12:38E	2.0	D	243	M1.3		320/II
036	249 ₂	10 27	Ha	13:21	0.6	11002	N15 E07	SN	3/5	316/I
			Ha	14:14	0.3	10995	N11 W77	SN		320/II
			SXR	13:24	2.0	B - B	338	M1.3		
037	249 ₃	10 27	Ha	22:00	0.3	11002	N14 E22	SF	1-/3	316/I
			Ha	22:30	0.3	11002	N13 E22	SN		320/II
			Ha	23:18	0.8	11002	N16 E31	1B		
			SXR	22:30	2.0	D	243	C9.7		
038	251 ₄	11 02	Ha	04:52	0.8	11015	N02 W66	1N	1/3	317/I
			SXR	05:08	2.0	BP - C	265	C4.1		321/II
039	251 ₅	11 02	Ha	18:07	0.5	11015	N08 W76	1N	---	317/I
			SXR	18:00	2.0	BP - C	265	C2		321/II

040	251 ₆	11 04	Ha	23:40E	0.7	11012	S10 W42	SF	1+/1	317/I
			SXR	23:40	2.0	AP - J	198	C2		321/II
	252	11 05	Ha	03:08	4.2	11019	S12 E36	3B	3/5	317/I
			Ha	06:00	2.0	11019	S13 E32	SN		321/II
			Ha	03:55	2.6	11019	S15 E35	3N		
			SXR	03:08	5.0	BP - C	124	X2.3		
	252	11 05	Ha	08:03	0.5	11012	S11 W41	SB	2/3	317/I
			SXR	08:03	4.0	AP - J	198	M1		321/II
041	252 ₇	11 14	Ha	08:08	0.5	11029	N15 E01	SN	1-/3	317/I
			Ha	08:35	0.6	11029	N15 W01	1N		321/II
			Ha	09:26	0.4	11029	N16 E03	SN	1+/5	
			SXR	08:17E	2.0	D	034	M1.3		
042	258 ₉	11 14	Ha	12:00	0.5	11029	N17 E02	SN	1+/3	317/I
			Ha	12:32	1.1	11029	N15 W03	1N	1-/3	321/II
			SXR	12:00	2.0	D	034	M1		
043	258 ₁₀	11 14	Ha	13:59	0.5	11029	N17 E02	SB	1/5	317/I
			Ha	15:09	0.2	11029	N17 E02	SF		321/II
			SXR	13:12E	2.0	D	034	M6.9		
044	260 ₇	11 18	Ha	10:28	0.1	11035	N04 E08	SN	---	317/I
			Ha	10:24	0.4	11032	S12 W19	SN		321/II
			SXR	10:24E	2.0	B - D	001	M5		
045	260 ₈	11 18	Ha	14:06	0.3	11035	N04 W02	SN	1-/3	317/I
			SXR	14:06E	2.0	B	342	M1.3		321/II
046	260 ₉	11 18	Ha	16:06	1.1	11035	N07 W02	SN	1-/3	317/I
			SXR	16:06E	2.0	B	342	M1.7		321/II
1 9 7 1										
047	273 ₁₂	01 01	Ha	20:13	0.5	11097	N13 W34	SF	---	319/I
			Ha	20:16	0.3	11096	N11 W67	SF		323/II
			SXR	20:10	2.5	AP - C	163	C2		
048	273 ₆	01 06	SXR	03:00	2.0	11111	S04 E55	C5	---	319/I
						B - E	008			
049	273 ₁₃	01 17	Ha	13:35E	0.1D	11128	N18 E52	SN	---	323/II
			SXR	13:10	3.0	B - E	223	C2		319/I
050	277 ₁₃	02 15	SXR	16:40	2.0	11156	N14 W20	C8.5	1/3	320/I
						B - C	269			
051	277 ₁₉	02 16	Ha	08:28	0.5	11156	N14 W31	SN	1/3	324/II
			SXR	06:00	3.0	B - C	269	C6		320/I
052	277 ₂₀	02 17	Ha	04:58	0.3	11164	N21 E21	SF	2/3	320/I
			SXR	04:08	2.0	B - D	225	M6.0		324/II
053	277 ₂₁	02 17	Ha	15:41	0.3	11156	N14 W48	SN	2+/5	320/I

053	277 ₂₁	02 17	Ha	15:56	0.4	11165	S17 E81	SN		324/II
			Ha	15:57	0.2	11163	S19 E38	SN		320/I
			SXR	16:00	2.0	B - E	141	M7.3		
054	277 ₂₂	02 18	Ha	03:27	0.3	11165	S18 E79	1B	1/3	320/I
			SXR	03:21	2.0	B - E	141	M3.0		324/II
055	277 ₂₃	02 18	Ha	12:54	0.2	11165	S16 E72	SN	2-/5	320/I
			Ha	13:44	0.2	11165	S16 E73	SN		324/II
			Ha	14:00	0.5	11162	N13 W11	SN		
			SXR	12:54	2.0	B - E	141	M1.3		
056	277 ₂₄	02 19	Ha	15:55	1.5	11165	S18 E56	1N	---	320/I
			SXR	16:00	2.0	B - E	141	C5.5		324/II
057	277 ₂₅	02 19	Ha	23:03	0.5	11162	N19 W22	SF	1-/1	320/I
			SXR	22:00	2.0	DB of filament B - D	220	C2		324/II
058	277 ₂₆	02 20	Ha	01:28	0.5	11165	S18 E51	SF	1-/1	320/I
			Ha	01:55	0.7	11165	S18 E52	SN		324/II
			SXR	01:20	2.0	B - E	141	C3		
059	277 ₁₄	02 22	Ha	06:23	0.3	11165	S17 E22	SN	---	324/II
			Ha	08:15	0.6	11165	S18 E20	SF		320/I
			Ha	08:56	0.1	11162	N24 W71	SN		
			Ha	09:21	0.1	11165	S16 E27	SN	2/5	
			Ha	09:33	0.3	11162	N21 W74	SN		
			SXR	07:20	3.5	B - E	141	M1.7		
060	277 ₂₇	02 23	Ha	17:07	2.0	11164	N17 W42	1F	1-/3	324/II
			SXR	17:00	3.0	B - D	220	C3		320/I
061	277 ₁₈	03 03	Ha	08:34	0.7	11182	S15 W16	SF	---	325/II
			Ha	09:10	0.2	11180	S01 E24	SF		321/I
			SXR	09:00	3.0	B - B	018	C4		
062	280 ₁	03 06	Ha	08:35	0.3	11173	N05 W74	SF	1-/1	325/II
			SXR	08:00	2.0	AP - J	073	C2		321/I
063	281 ₁	03 07	Ha	23:10	0.5	11181	S15 E02	SF	---	321/I
			SXR	23:00	2.0	AF	342	C3		325/II
064	282 ₁	03 14	Ha	23:20	1.0	11196	N09 E41	SF	---	321/I
			SXR	23:20	3.0	BP	211	C2		325/II
065	283 ₁	03 15	Ha	21:16	0.7	11196	N10 E30	SN	---	321/I
			Ha	21:12	1.5	11196	N09 E28	SF		325/II
			SXR	21:12	4.0	BP	211	C5		
066	283 ₁	03 16	Ha	23:11	0.7D	11196	N10 E15	SF	1+/1	321/I
			SXR	23:00	2.0	BP	211	C2		325/II
067	283 ₂	03 22	SXR	16:00	2.0	11195 AP - J	S10 W70 215	x02	---	325/II
068	283 ₃	03 23	SXR	23:40	2.5	x	x	C3		325/II

069	289 ₁	04 08	Ha	21:14	1.4	11233	S15 E21	SF	---	322/I
			SXR	21:14	2.0	BP	260	C2		326/II
070	290 ₁	04 11	Ha	15:04	0.5	<u>11234</u>	N20 W25	SF	1/1	322/I
			Ha	20:17	0.5	11253	S05 E37	SN		326/II
			SXR	15:00	6.0	AP - J	270	C2		
071	290 ₂	04 18	Ha	00:44	0.3	11256	N18 W01	SN	---	322/I
			SXR	23:30	4.0	B - C	149	C2		326/II
072	293 ₁	04 20	Ha	08:59	0.6	11256	N20 W21	1N	2/3	322/I
			SXR	08:59	2.0	B - C	149	M1.3		326/II
	301	04 24	Ha	07:39	0.2	11257	NO8 W88	SB	---	322/I
			SXR	08:10	4.0	AP - J	156	C4		326/II
073	301 ₁	04 24	Ha	16:19	1.1	11255	S22 W70	SF	---	322/I
			Ha	16:21	0.1	11268	N12 W57	SN		326/II
			SXR	16:00	2.0	A - A	150	C2		
074	303 ₁	05 05	Ha	22:55	0.5	11294	N13 E11	SN	1/5	327/II
		06	Ha	01:43	0.5	11294	N13 E13	SF		323/I
		05	SXR	22:55	3.0	D	271	C4		
	310	05 20	Ha	06:05	1.1	11313	NO4 W40	2N	1+/5	327/II
			Ha	06:03	3.1	11313	NO5 W41	2N		323/I
			Ha	07:13	0.5	11313	NO6 W40	2F		
			Ha	06:55	1.1	11313	NO5 W43	1B		
			SXR	06:05	5.0	BF - J	135	M2.1		
075	310 ₅	06 02	Ha	13:41	0.5	11338	N11 W50	SF	---	324/I
			SXR	13:40	2.0	B - C	338	C2		328/II
076	310 ₆	06 02	Ha	21:03	0.6	11351	NO4 E46	SN	---	324/I
			SXR	20:30	2.0	A - A	226	C2		328/II
077	310 ₇	06 04	Ha	12:01	0.2	11352	S05 E33	SF	---	324/I
			SXR	12:00	2.0	B - C	221	C2		328/II
078	310 ₈	06 07	Ha	20:51	1.6	11351	NO2 W21	SF	1+/5	324/I
			SXR	20:51	2.0	B - J	221	C2		328/II
079	310 ₉	06 24	Ha	01:30	0.7	11383	N15 E12	SN	---	324/I
			SXR	01:30	3.0	BP- B	343	C2		328/II
080	310 ₁₀	06 25	Ha	01:46	0.4	11382	S20 W08	SN		324/I
			SXR	01:46	3.0	D	348	C2		328/II
081	310 ₁₁	06 25	Ha	09:40	0.1	11393	N12 E45	SF	---	324/I
			Ha	09:55	0.1	11393	N16 E31	SN		328/II
			SXR	09:00	3.0	A - A	303	C2		
	311	06 26	Ha	01:27	0.2	11402	S03 E90	1B	---	324/I
		06 25	SXR	23:20	3.0	BP - D	238	M1.8		328/II
082	311 ₁	06 26	Ha	04:37	0.5D	11383	N13 W19	1F	---	324/I
			SXR	03:20	4.0	BP - B	339	C2		328/II

	313	06 26	Ha	12:29	0.2	11402	S09 E86	SN	1-/3	324/I
			Ha	14:23	0.1	11402	S04 E85	1N		328/II
			SXR	13:19E	2.0	BP - D	238	M1.3		
083	332 ₁	09 04	Ha	01:51	0.5	11496	S04 W07	SF	---	327/I
			SXR	01:51	2.0	B - B	118	C2		331/II
084	333 ₁	09 07	Ha	04:30	1.0	11496	S11 W34	1N	---	327/I
			Ha	05:02	0.4	11496	S07 W42	SF		331/II
			SXR	04:30	2.0	B - A	118	C2		
	335	09 10	Ha	10:05	0.5	11496	S04 W85	SN	---	327/I
			SXR	09:30	2.5	B- A	118	C2		331/II
085	336 ₁	09 14	Ha	04:25	0.2	<u>11516</u>	S13 E71	SF	---	327/I
			Ha	04:51	0.2	11506	S14 W15	SF		331/II
			Ha	06:22	0.2	11516	S13 E72	SN		
			SXR	04:51	3.0	B - B	273	C2		
	342	09 17	Ha	13:58	1.3	11516	S11 E21	1B	2/5	327/I
			Ha	14:01	1.6	11516	S11 E21	1B		331/II
			Ha	14:21	0.3	11515	NO3 E22	SN		
			SXR	14:07	2.0	BY-D	276	M2.7		
086	342 ₁	09 17	Ha	15:02	0.5	11516	S13 E22	1N		327/I
			Ha	15:44	0.5	11516	S17 E22	1B	1/5	331/II
			Ha	15:36	0.2	11515	NO2 E23	SN		
			SXR	15:44	2.5	BY - D	276	M1.8		
087	342 ₂	09 18	Ha	10:53	0.5	11516	S10 E09	SN	---	327/I
			SXR	10:10	3.0	BY-D	276	C2		331/II
088	343 ₁	09 22	Ha	03:05	0.3	11514	N11 W56	SF	1-/1	327/I
			SXR	03:05	3.0	AF-D	297	C4		331/II
	345	09 26	Ha	09:07	0.6	11534	S08 E69	SF	---	327/I
			Ha	09:15	1.3	<u>11533</u>	NO3 E53	SN		331/II
			Ha	09:14	0.7	11533	NO3 E51	SF		
			SXR	09:10	3.5	AP - H	132	C2		
089	345 ₁	10 03	Ha	06:39	0.5	11537	N12 E18	SF	---	328/I
			SXR	06:39	2.5	D	076	C5		332/II
	346	10 03	Ha	13:30	1.5	11537	N13 E14	2N	3/5	328/I
			Ha	13:46E	2.3	11537	N14 E16	2B		332/II
			Ha	15:12	1.5	11537	N12 E14	1F		
			SXR	13:30	4.5	D - C	076	M8		
	348	10 12	Ha	07:07	0.9	11554	S12 E58	SN	---	328/I
			Ha	07:24	0.6	11554	S14 E56	SF		332/II
			Ha	06:55	1.1	11554	S14 E56	SF		
			SXR	07:00	2.0	A - A	285	C2		
090	348 ₁	10 18	Ha	06:32	0.4	11565	NO8 E48	SF	---	328/I
			Ha	07:00	1.1	11565	NO8 E49	SF		332/II

090	348 ₁	10 18	SXR	06:32	2.5	D - E	210	C2		
091	350 ₆	11 02	Ha	07:51	0.4	11579	S13 W33	SN	---	329/I
			Ha	08:10	0.7	11579	S09 W33	SN		333/II
			SXR	07:51	2.0	B - B	090	C2		
092	350 ₇	11 03	Ha	15:11	0.6	11592	N11 E42	SN	2+/3	329/I
			SXR	15:11	2.0	B - B	358	C6		333/II
093	350 ₈	11 05	Ha	19:30	0.5	11592	N11 E14	SF	---	329/I
			SXR	19:20	2.0	B - C	358	C2		333/II
	351	11 09	SXR	23:54	2.5	11591	S09 W53 005	M4	2/5	329/I
094	351 ₁	11 11	Ha	07:50	0.2	11605	N11 E79	SF	---	329/I
			SXR	07:50	2.0	B - B	219	C2		333/II
095	351 ₂	11 12	Ha	07:25	0.1D	<u>11605</u>	N07 E70	SN		329/I
			Ha	07:50	0.7	11593	S20 W70	1F	---	333/II
			SXR	07:25	2.0	B - B	219	C3		
096	351 ₃	11 15	Ha	06:05	0.4	11610	S14 E59	SN	---	329/I
			SXR	06:05	2.0	AP - H	193	C2		333/II
097	352 ₁	11 17	Ha	17:52	0.6	11610	S15 E23	SN	---	329/I
			SXR	17:52	3.0	AP-H	193	C4		333/II
098	353 ₁	11 20	Ha	06:45	0.4	11610	S14 W14	SN	1/5	329/I
			SXR	06:45	2.5	AP-H	193	M1.3		333/II
099	358 ₁	11 28	Ha	03:37E	0.5D	11619	S11 W16	SN	---	329/I
			Ha	04:32	0.7	11619	S10 W10	SN		333/II
			SXR	03:30	4.0	BP - B	083	C2		
100	358 ₂	11 28	Ha	10:52	0.5	11621	N14 W09	SN	1-/3	329/I
			Ha	11:39	0.9	11621	N14 W09	SB	1+/3	333/II
			SXR	11:41	2.0	AP-D	081	M1.3		
	360	12 03	Ha	00:44	1.6	11619	S15 W66	1B	2+/3	330/I
			Ha	01:06	0.9	11619	S15 W67	1B		334/II
			Ha	03:04	0.6	11619	S16 W68	SB		
			SXR	01:05	5.0	BP-B	083	M5.8		
	361	12 03	Ha	06:52	0.3	11621	N11 W72	SF	---	330/I
			Ha	08:19	0.2	11621	N11 W75	SN		334/II
			SXR	07:20	3.0	B - C	081	C2		

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101	365 ₁	01 15	Ha	16:23	0.2	11693	S16 E67	SF	---	331/I
			Ha	17:11	0.2	11693	S12 E65	SN		335/II
			SXR	16:23	2.0	D - D	094	C3		
102	367 ₂	01 16	Ha	22:55	0.3	11693	S15 E49	SF	---	331/I
			SXR	22:55	2.0	D - D	092	C3		335/II

103	368 ₂	01 21	Ha	09:50	0.5	11702	N18 W43	SN	1-/1	331/I
			SXR	09:50	6.0	BP - B	124	C1	new gr.	335/II
104	371 ₁	01 22	Ha	23:26	0.3	11693	S18 W44	SN	1-/3	331/I
			SXR	23:10	2.0	D - D	092	C4		335/II
105	371 ₂	01 23	Ha	01:05	0.3	11693	S20 W32	SB	---	331/I
			Ha	02:58	0.1	11693	S17 W33	SF	1-/1	335/II
			Ha	03:21	0.3	11693	S17 W51	SB	M4	
			SXR	01:30	2.0	D - D	092	C9		
	372	01 26	Ha	00:30	0.2	11709	N16 E57	SF	---	331/I
			Ha	01:26	0.2	11709	N17 E58	SN		335/II
			Ha	03:03	0.4	11709	N15 E54	SN		
		25	SXR	23:52	2.0	- A	314	C4.1		
106	373 ₁	01 29	Ha	00:16	1.3	11708	S10 E26	1B	---	331/I
			SXR	00:16	2.0	AP - D	342	C2		335/II
107	373 ₂	01 29	Ha	02:30	0.5	11700	S14 W71	SN	---	331/I
			SXR	02:30	2.0	BF-B+J	045	C1		335/II
108	373 ₃	01 30	Ha	00:36E	0.5D	11707	S17 W12	SF	1/3	331/I
			SXR	00:25	2.0	B - D	342	C6.2		335/II
109	373 ₄	01 30	Ha	16:04	0.9	11707	S18 W23	SF	---	331/I
			SXR	16:04	2.0	B - D	342	C3		335/II
110	374 ₁	01 31	Ha	07:55	0.5	11707	S18 W27	SN	---	331/I
			SXR	07:55	2.0	B - D	342	C2		335/II
111	374 ₂	01 31	Ha	12:15	0.5	11707	S18 W29	SN	1-/3	331/I
			SXR	12:15	2.0	B - D	342	C2		335/II
112	374 ₃	02 02	Ha	21:05	0.6	11710	N10 W28	SN	---	332/I
			SXR	21:05	2.0	AP - C	312	C2		336/II
113	374 ₄	02 04	SXR	02:00	3.0	11725? B - B	S18-W00 253	C2	---	332/I
114	374 ₅	02 05	SXR	10:40	3.5	11725?	S18-253	C2	---	336/II
115	374 ₆	02 07	Ha	13:37	0.3	11729	S05 E78	SF	---	332/I
			SXR	13:50	5.0	BP-B	140	C2		336/II
116	374 ₇	02 07	Ha	23:52	0.3	11732	N08 E83	SF	---	332/I
			SXR	23:00	2.0	AP - J	127	C2		336/II
117	374 ₈	02 08	SXR	07:16	2.0	11733? AP - J	N18 E78 124	C6.1	---	336/II
	375	02 08	Ha	10:35E	0.2D	11733	N16 E86	SN	---	332/I
			SXR	08:47E	6.0	AP - J	124	M9.3		336/II
	376	02 09	Ha	20:35	0.7	11734	S19 E84	1F	1-/3	332/I
			Ha	21:55	0.2	11734	S19 E84	SF		336/II
			SXR	20:50	2.5	AP - C	100	C4.1		

118	376 ₁	02 10	SXR	04:50	2.0	11734?	S19-100	C3	---	332/I
	377	02 10	Ha	08:20E	0.5D	11734	S16 E86	SF	2/3	332/I
			SXR	08:30	2.5	AP- C	100	C8.5		336/II
119	377 ₁	02 10	Ha	20:19	0.5	11734	S19 E84	SN	1-/3	332/I
			SXR	20:30	2.0	AP- C	100	C3.8		336/II
	379	02 10	Ha	23:21	1.4	11734	S16 E80	1N	2/5	332/I
			SXR	23:28	2.5	AP- C	100	M2.7		336/II
120	379 ₁	02 11	Ha	00:57	0.8	11734	S14 E77	SF	2/3	332/I
			SXR	00:34E	5.0	AP - C	100	M3.6		336/II
121	380 ₁	02 11	SXR	12:00	2.0	11734?	S14-100	C4	---	336/II
122	380 ₂	02 12	Ha	08:12	0.3	11734	S18 E63	SN	---	332/I
			Ha	08:35	0.3	11734	S20 E60	SF	---	336/II
			Ha	08:52	0.2	11734	S18 E54	SN	---	
			SXR	08:12	3.0	AP- C	100	C4		
123	381 ₁	02 13	Ha	09:34	0.6	11734	S19 E49	1N	2-/3	332/I
			Ha	09:44	0.6	11734	S17 E39	SF		336/II
			SXR	09:34	2.0	BP- C	100	C9.5		
124	383 ₁	02 16	Ha	20:42	1.4	11734	S24 E13	SF	---	332/I
			Ha	20:52	0.9	11734	S25 E12	SF		336/II
			SXR	19:46E	2.0	BP- C	100	C6.9		
	384	02 17	Ha	20:54	0.3	11751	S23 E84	SN	2+/5	332/I
			SXR	20:31	3.0	BP-E	343	X1.5		336/II
125	384 ₁	02 20	Ha	19:11	1.1	11751	S23 E62	1N	1+/5	332/I
			SXR	19:14	2.0	BP- E	343	M1.3		336/II
	389	02 29	Ha	11:40	0.8	11748	N13 W90	2N	1+/3	332/I
			SXR	12:07	2.0	AP -B+D	024	M1.8		336/II
	390	02 29	SXR	15:14	2.0	11748	N13 W90	M2.2	2+/5	336/II
126	393 ₂	03 04	Ha	14:19	0.3	11759	N08 W64	SN	1/3	333/I
			SXR	14:22	2.0	BP-C	296	C3.7		337/II
			IV	16:25						
127	393 ₃	03 04	Ha	19:19	0.5	11769	S06 E42	SF	1-/5	333/I
			SXR	19:23	3.0	BP-F	189	C4.2		337/II
128	393 ₄	03 05	Ha	01:47	0.5	11759	N07 W75	SN	1-/3	333/I
			SXR	01:50	2.0	BP- C	296	C4.0		337/II
129	393 ₅	03 05	Ha	05:49	0.4	11769	S07 E44	SB	2/5	333/I
			SXR	05:50	2.0	BP- F	189	M1		337/II
130	393 ₆	03 06	Ha	02:37	0.6	11769	S07 E44	SB	2+/3	333/I
			SXR	02:39	2.0	BP- F	189	M3.6		337/II
131	393 ₇	03 06	Ha	10:45	0.6	11769	S07 E25	SN	1-/3	333/I
			Ha	11:09	0.6	11769	S08 E26	1B	3-/5	337/II

131	393 ₇	03 06	Ha	11:22	0.5	11769	S06 E27	1B		333/I
			SXR	10:45	2.0	BP- F	189	X1.6		337/II
132	393 ₈	03 09	Ha	13:40	0.3	11776	N14 E59	SF	1/3	333/I
			SXR	13:40	2.5	BP- E	107	C5.1		337/II
133	393 ₉	03 09	Ha	22:31	0.3	11776	N15 E53	SN	1-/5	333/I
			SXR	22:31	2.0	BP-E	107	C5.6		337/II
	394	03 11	Ha	00:20	0.1	11769	S11 W32	SF	1-/1	333/I
			Ha	00:53	0.2	11769	S11 W32	SF	1-/1	337/II
			Ha	01:34	0.4	11769	S11 W33	SN	---	
			Ha	02:36	0.4	11769	S11 W35	SN	---	
			Ha	03:42	0.3	11769	S11 W34	SN	---	
			SXR	00:20	6.0	BP- G	107	C7.3		
134	394 ₁	03 13	SXR	19:55	2.0	11783 - B	N16 E73 035	C3	1-/3	337/II
135	394 ₂	03 14	Ha	15:35	0.5	11783	N15 E60	SF	1-/3	333/I
			SXR	15:15	2.0	AP- J	025	C6.3		337/II
136	394 ₃	03 15	Ha	10:19	0.2	11778	S18 E01	SN	---	333/I
			SXR	10:19	2.0	BP- A	093	C2		337/II
137	394 ₄	03 17	Ha	10:09	0.6	11781	S07 W03	SF	1-/1	333/I
			SXR	10:09	2.0	BF- C	052	C1		337/II
138	394 ₅	03 17	Ha	19:17	0.4	11781	S09 E00	SN	---	333/I
			SXR	19:17	2.5	BF - C	052	C1		337/II
139	395 ₁	03 20	Ha	00:19	0.3	11786	S21 E51	1F	---	333/I
			SXR	00:19	2.0	∅ → A	343	C2		337/II
140	395 ₂	03 21	Ha	02:10	0.7	11790	N11 E74	SF	---	333/I
			SXR	01:20	2.5	∅	306	C1		337/II
141	396 ₁	03 24	Ha	03:58	0.9	11787	N06 E02	SN	1-/3	333/I
			SXR	03:58	2.0	BP- D	332	C4.3		337/II
142	396 ₂	03 24	Ha	11:59	0.1	11787	N07 E06	SF	---	333/I
			Ha	13:34	0.1	11787	N07 W05	SF	---	337/II
			SXR	11:59	2.0	BP- D	332	C2		
143	396 ₃	03 24	Ha	17:15	0.6	<u>11787</u>	N07 W04	SN	---	333/I
			Ha	17:29	0.3	11781	S10 W96	SN	---	337/II
			Ha	17:56	0.1	11791	N10 W31	SF	1-/1	
			SXR	17:15	3.0	BP- D	332	C4		
144	396 ₄	03 26	Ha	07:42	0.2	11783	N11 W88	SF	---	333/I
			SXR	07:00	2.0	AP- A	033	C2		337/II
145	396 ₅	03 26	Ha	17:04E	0.3D	11787	N06 W36	SF	---	333/I
			Ha	17:31	0.3	11787	N07 W25	SF		337/II
			SXR	16:30	2.5	BP- C	332	C2		
146	396 ₆	03 26	Ha	20:16E	0.1D	11787	N06 W28	SF	---	333/I
			SXR	20:00	2.0	BP- C	332	C2		337/II

147	396 ₇	03 27	Ha	05:47	0.1D	11803	S12 E90	SN	---	333/I
			SXR	05:20	2.0	BP - C	200	C1		337/II
148	396 ₈	03 27	Ha	15:00E	0.1D	11786	S22 W53	SF	1-/1	333/I
			SXR	15:00	2.0	BP- B	343	C1		337/II
149	396 ₉	03 27	SXR	20:10	2.0	x	x - S?	C4	---	337/II
150	396 ₁₀	03 28	Ha	07:53E	0.3D	11799	S05 E82	SN	---	333/I
			SXR	06:50	2.5	BP- J	206	C4		337/II
151	396 ₁₁	03 28	Ha	14:40	0.2	11799	S05 E75	SN	---	333/I
			SXR	14:40	2.0	BP - J	206	C1		337/II
152	396 ₁₂	03 29	Ha	01:15	0.5	11799	S11 E76	SF	---	333/I
			SXR	01:15	2.0	BP - C	206	C1		337/II
153	396 ₁₃	03 29	Ha	19:00	0.5	11799	S05 E70	SF	---	333/I
			SXR	19:00	2.0	BP- C	206	C2		337/II
154	396 ₁₄	04 06	Ha	12:02	0.5D	11813	S07 E79	SF	---	334/I
			SXR	11:00	2.0	BP- D	084	C2		338/II
155	396 ₁₅	04 08	Ha	23:09	0.3	11813	S14 E42	SN	1-/1	334/I
			SXR	23:09	2.0	BP- D	089	C4		338/II
156	396 ₁₆	04 09	Ha	21:20E	0.1D	11813	S13 E34	SN	---	334/I
			Ha	22:05	0.4	11813	S16 E23	SF	---	338/II
			Ha	22:31	0.5	11813	S07 E33	SN	---	
			SXR	22:00	2.0	BP- D	089	C4		
157	396 ₁₇	04 09	Ha	23:18	0.5	11799	S11 W73	1B	1-/1	334/I
			SXR	23:18	3.5	AP- B	186	M2.2		338/II
158	396 ₁₈	04 10	Ha	17:08	0.6	11807	N14 W20	SF	---	334/I
			SXR	17:08	3.0	AP-∅	121	C2		338/II
159	396 ₁₉	04 11	Ha	01:02	0.3	11813	S06 E19	SN	1-/1	334/I
			SXR	01:02	2.0	BP- C	084	C2		338/II
160	396 ₂₀	04 11	Ha	23:52	0.2	11813	S04 E07	SN	---	334/I
			SXR	23:52	2.0	BP- C	084	C2		338/II
161	397 ₁	04 15	Ha	09:28	0.5	11813	S10 W38	SN	1-/1	334/I
			SXR	09:28	2.5	AP- B	084	C3.2		338/II
162	397 ₂	04 17	Ha	09:49	0.3	11827	S10 E51	SN	1-/1	334/I
			Ha	10:12	0.3	11827	S12 E53	SN		338/II
			Ha	10:38	0.2	11827	S11 E55	SN		
			SXR	09:49	2.5	AP- A	334	C4		
163	397 ₃	04 17	Ha	18:43	2.0	11813	S19 W70	SF	---	334/I
			SXR	18:30	5.0	AF-B	080	C3		338/II
164	397 ₄	04 18	SXR	05:00	4.0	x	x - S?	C1	---	338/II
165	398 ₁	04 26	Ha	21:25	0.3	11843	N09 W69	SF	---	334/I
			SXR	21:00	2.0	AF- B	318	C2		338/II

166	398 ₂	04 27	Ha	00:42	0.4	11838	N10 W52	SF	1-/1	334/I
			SXR	00:42	2.0	B - D	302	C2		338/II
167	398 ₃	05 04	Ha	08:25	0.7	11856	S20 E61	SF	1-/1	335/I
			Ha	08:23	0.7	11856	S19 E63	SF		339/II
			SXR	08:10	2.5	BP - C	093	C4		
168	398 ₄	05 04	Ha	14:58	0.4	11856	S17 E57	SF	1-/5	335/I
			SXR	14:58	2.0	BP- C	093	C4		339/II
169	398 ₅	05 05	Ha	22:00	0.1	11856	S22 E42	SF	1-/1	335/I
			Ha	22:12	0.8	11856	S18 E42	SN		339/II
			SXR	22:00	2.0	BP- C	093	C4		
170	398 ₆	05 06	Ha	00:26	3.5	11856	S20 E30	2F	---	335/I
			SXR	00:26	6.0	BP- D	093	C2		339/II
	399	05 08	Ha	15:31	0.9	11856	S20 E04	SN	1-/5	335/I
			Ha	15:28	1.2	11856	S18 E04	SN		339/II
			Ha	16:07	0.3	11856	S18 E05	SF		
			SXR	15:31	3.5	BP- D	093	C5.2		
171	399 ₁	05 12	Ha	22:53	0.1	11857	N21 W50	SF	---	335/I
			SXR	22:53	2.0	BP- D	093	C3		339/II
172	399 ₂	05 15	Ha	02:21	0.7	11876	S04 E42	1N	2/5	335/I
			SXR	02:21	2.0	AP- E	332	M1.8		339/II
173	399 ₃	05 16	Ha	13:27	0.3	11870	S06 W21	SF	1-/1	335/I
			Ha	13:49	0.2	11870	S06 W22	SN		339/II
			Ha	14:04	0.3	11870	S08 W18	SN		
			Ha	14:29	0.6	11870	S06 W21	SN		
			Ha	15:08	0.3	11870	S06 W22	SF		
			SXR	12:30	2.5	BP- D	010	C1		
	401	05 20	Ha	16:52	1.0	11882	N13 W03	SN	1/5	335/I
			SXR	16:52	2.0	BP-A	318	C6.0		339/II
174	401 ₁	05 22	Ha	06:14E	0.1D	11876	S02 W62	SN	---	335/I
			SXR	06:30	5.0	BP - C	331	C2		339/II
175	401 ₂	05 22	Ha	12:19	0.3	11882	N15 W30	SF	---	335/I
			Ha	12:40	1.0	11882	N14 W30	SN	---	339/II
			SXR	12:00	3.0	BP- C	299	C2		
176	401 ₃	05 22	Ha	21:34	0.3	11882	N13 W32	SN	1/5	335/I
			SXR	21:06	2.0	BP- C	299	C4.9		339/II
	402	05 22	Ha	22:59	0.4	<u>11882</u>	N16 W32	SN	2-/1	335/I
			Ha	23:45	0.4	11882	N15 W32	SF		339/II
		05 23	Ha	00:31	0.2	11883	S08 W38	SF		
			SXR	22:58	4.5	BP- C	299	M2.2		
	403 _a	05 24	Ha	06:37	0.7	11883	S14 W57	SN	3/5	335/I
			Ha	06:34E	0.2D	11876	S13 W63	SF		339/II

	403 _a	05 24	Ha	06:57E	0.2D	11876	S07 W90	SN	335/I	
			Ha	08:36	0.2	11883	S14 W54	SN	---	339/II
			SXR	06:37	2.0	BP- G	297	C9		
	403 _b	05 24	Ha	07:02	0.7	11895	N08 E85	1N	1-/1	335/I
			Ha	07:15	1.3	11895	N07 E89	1N		339/II
			SXR	07:02	4.5	BP-D	164	X5.1		
177	403 ₁	05 25	Ha	11:34	0.2	11895	N07 E68	SF	---	335/I
			Ha	13:02	0.3	11895	N07 E72	SF	1-/1	339/II
			Ha	14:43	1.2	11895	N09 E68	SF		
			SXR	11:34	5.0	BP- D	165	C3		
178	403 ₂	05 25	Ha	19:25	0.7	11895	N07 E66	SF	1/1	335/I
			Ha	18:18	0.2D	11895	N12 E64	SF		339/II
			SXR	18:18	2.0	BP- D	168	C2		
179	403 ₃	05 26	Ha	11:57	1.5	11895*	N08 E55	SN	1+/3	335/I
			SXR	11:40	2.0	D - D	165	C3		339/II
180	403 ₄	05 26	Ha	14:13	0.4	11895	N10 E53	SF	---	335/I
			Ha	14:25	0.7	11895	N08 E54	SF		339/II
			SXR	14:13	2.0	D - D	165	C4.7		
181	403 ₅	05 26	Ha	22:51	0.5	11895	N10 E50	SF	---	335/I
			Ha	23:01	0.5	11895	N10 E48	SN	1-/3	339/II
			SXR	22:00	2.0	D - D	165	C4		
	405	05 27	Ha	01:31	0.7	11895	N10 E47	1B	2-/5	335/I
			Ha	02:47	0.5D	11895	N08 E47	2N		339/II
			SXR	01:32	2.5	D - D	163	M2.7		
182	405 ₁	05 27	Ha	06:49	0.4	11895	N07 E51	SN	---	335/I
			SXR	06:49	2.0	D - D	163	C6.9		339/II
	406	05 28	Ha	02:20	0.2	11895	N08 E37	SN	1-/3	335/I
			Ha	03:02	0.3	11895	N09 E34	SN	---	339/II
			Ha	03:48	0.5	11895	N09 E34	SN	1-/1	
			SXR	02:04	3.0	D - D	164	C8.9		
183	406 ₁	05 28	Ha	07:08	0.3	11901	N18 E68	SN	1+/5	335/I
			Ha	07:10	0.8	11895	N10 E32	1N		339/II
			Ha	07:35	1.3	11895	N12 E30	SF		
			SXR	07:10	2.0	D - D	164	M2.2		
184	406 ₂	05 28	Ha	11:31	0.5	11895	N09 E28	SN	2-/5	335/I
			SXR	11:33	2.0	D - D	164	C8.2		339/II
	407	05 28	Ha	13:10	2.1	11895	N09 E30	2B	3/5	335/I
			Ha	13:06	1.3	11895	N08 E30	SB		339/II
			Ha	14:58	1.5	11895	N11 E28	1N	1-/1	
			SXR	13:04	4.5	D - D	164	X5.1		

185	407 ₁	05 28	Ha	19:06	0.2	11895	N10 E26	SF	---	335/I
			Ha	19:27	0.1	11895	N10 E28	SF	---	339/II
			Ha	20:10	0.2	11895	N07 E24	SF	---	
			SXR	19:06	2.0	D - D	164	C5.8		
186	407 ₂	05 29	Ha	01:03	0.2	11895	N10 E17	SF	---	335/I
			SXR	01:03	2.5	D - D	164	C4.2		339/II
187	407 ₃	05 29	Ha	06:05	0.3	11895	N10 E20	SN	---	335/I
			Ha	06:22	0.3	11895	N10 E18	SN		339/II
			Ha	07:44	0.1	11895	N05 E23	SF		
			SXR	05:30	2.5	D - D	164	C2		
408 _a	05 29	Ha	09:20	2.0	11895	N09 E19	1N	2/3	335/I	
		SXR	09:20	2.0	D - D	164	C8.8		339/II	
408 _b	05 29	Ha	09:50	0.1	11895	N09 E23	SN	---	335/I	
		Ha	10:16	1.0	11895	N08 E17	1B	2/3	339/II	
		SXR	10:15E	3.0	D - D	164	M4.9			
188	408 ₁	05 29	Ha	13:38	0.1	11895	N06 E13	SF	---	335/I
			SXR	13:00	2.0	D - D	164	C4		339/II
189	408 ₂	05 30	Ha	01:49	1.1	11895	N12 E08	1B	1+/3	335/I
			SXR	01:49	2.0	D - D	166	M1.8		339/II
409	05 30	Ha	06:58	0.8	11895	N09 E12	1N	1-/1	335/I	
		Ha	08:05	0.3D	11895	N10 E03	SN		339/II	
		Ha	08:20E	0.7D	11911	S15 E78	SN	1-/1		
		SXR	06:00	2.5	D-D	166	C5.3			
190	409 ₁	05 30	Ha	09:18	0.5	11895	N11 E06	SF	1/1	335/I
			SXR	09:18	2.0	D - D	166	C3.8		339/II
410	05 31	Ha	05:39	2.1	11895	N09 W08	SN	1-/3	335/I	
		Ha	05:41	1.3	11895	N09 W08	1N		339/II	
		Ha	06:35	0.9	11895	N10 W09	1N	---		
		SXR	05:39	2.5	D - D	165	C7.4			
192	411 ₁	06 01	Ha	08:05	0.4	11895	N10 W24	SN	---	336/I
			Ha	08:11	1.0	11895	N10 W23	SN		340/II
			Ha	10:56	0.2	11895	N11 W23	SF	---	
			SXR	08:05	3.0	D - D	165	C2		
193	412 ₁	06 04	Ha	07:24	0.5	11911	S08 E29	SN	---	336/I
			Ha	07:11	0.6	11911	S08 E28	SN	---	340/II
			Ha	08:27	0.4	11911	S08 E18	SN	---	
			Ha	08:57	0.8	11911	S08 E31	SN		
			SXR	07:24	2.0	BP- C	078	C2		
194	412 ₂	06 04	Ha	12:39	0.6	11911	S06 E22	SN	---	336/I
			Ha	12:35	0.9	11911	S05 E22	SB	---	340/II
			SXR	12:39	2.0	BP-C	079	C5.1		
195	412 ₃	06 05	Ha	13:04	0.6	11911	S06 E12	SN	2/5	336/I

195	412 ₃	06 05	Ha	13:15	0.4	11911	S05 E13	SF	---	336/I
			SXR	13:00	2.0	BP- D	078	M2.7		340/II
196	413 ₁	06 05	Ha	23:45	0.3	11911	S07 E06	SF	1-/1	336/I
		06 06	Ha	02:20E	0.2D	11911	S08 E07	1F		340/II
			SXR	23:45	2.5	BP- D	078	C3		
	414	06 06	Ha	09:59	0.3	11911	S05 W02	SF	1+/3	336/I
			Ha	10:15	0.3	11911	S05 W02	SF		340/II
			Ha	11:02E	0.2D	11911	S03 W09	SF		
			SXR	09:59	3.5	BP- D	077	C4.9		
197	415 ₁	06 07	Ha	06:20	1.2	11911	S06 W23	SN	---	336/I
			Ha	06:45	0.8	11911	S05 W25	SF		340/II
			SXR	06:00	2.0	BP- D	077	C2		
198	415 ₂	06 08	Ha	00:55	1.2	11911	S07 W24	SF	1-/3	336/I
			Ha	02:36	1.5	11911	S07 W26	1N	---	340/II
			SXR	00:55	2.0	BP- D	077	C7.9		
199	415 ₃	06 08	Ha	09:27	0.2	11911	S07 W24	SF	---	336/I
			Ha	09:43	0.5	11911	S06 W25	SN	---	340/II
			SXR	09:27	2.0	BP- D	077	C2		
200	415 ₄	06 08	Ha	15:23	0.1	11911	S07 W37	SF	---	336/I
			Ha	15:53	0.3	11911	S19 W44	SN	1-/1	340/II
			SXR	15:23	2.0	BP- D	077	C2		
201	415 ₅	06 09	Ha	03:16	0.3	11911	S08 W39	SN	---	336/I
			Ha	05:56E	0.2D	11911	S07 W42	SN		340/II
			Ha	07:25	0.6	11011	S09 W38	SN		
			SXR	03:16	4.5	BP- D	077	C1		
202	415 ₆	06 09	Ha	12:06	0.4	11911	S07 W42	SN/C6	1/3	336/I
			Ha	13:26	0.6	11911	S07 W43	SN		340/II
			Ha	14:35E	0.1D	11911	S08 W43	SN		
			Ha	15:01	0.2	11911	S08 W44	SN/C3.1		
			SXR	12:06	4.0	BP- D	077	C1		
203	415 ₇	06 10	Ha	05:20	0.2	11911	S05 W55	SN	---	336/I
			SXR	05:20	2.0	BP- D	077	C1		340/II
204	415 ₈	06 10	Ha	13:40	0.3	11911	S10 W60	SN	1-/1	336/I
			SXR	13:40	2.0	BP- D	077	C1		340/II
205	415 ₉	06 11	Ha	14:35	0.6	11911	S07 W72	SN	1-/5	336/I
			SXR	14:37	2.0	BP- H	077	C8.5		340/II
	416	06 12	Ha	13:18	0.8	11926	S11 E52	1B	3/5	336/I
Ha			13:22	0.6	11926	S11 E53	SB		340/II	
SXR			13:23	2.0	AP-C+C	295	X1.9			
206	416 ₁	06 12	Ha	15:09	0.3	11911	S06 W88	1N	---	336/I
			SXR	15:08	2.0	BP- H	077	C4		340/II

207	416 ₂	06 13	Ha	01:25	0.8	11926	S10 E43	1N	1/3	336/I
			SXR	01:25	2.0	AP+BP	295	C3		340/II
208	416 ₃	06 13	Ha	10:36	0.4	11926	S15 E56	SN	2-/3	336/I
			SXR	10:00	2.0	AP+BP	295	C7.1		340/II
209	416 ₄	06 14	Ha	05:34	1.0	11926	S08 E25	SN	---	336/I
			Ha	06:10	1.3	11926	S13 E32	SN	---	340/II
			Ha	08:21	0.7	11926	S13 E23	SN		
			SXR	05:34	4.0	AP+BP	295	C3		
210	416 ₅	06 15	Ha	02:54	0.3	11926	S18 E22	SF	---	336/I
			SXR	02:00	3.0	BY- C	305	C3		340/II
417	06 15	Ha	09:28	0.6	11926	S11 E10	SN	---	336/I	
		Ha	09:51	0.7	11926	S10 E11	1N	2+/3	340/II	
		SXR	09:54	2.5	BY- C	305	M1.3			
418	06 15	Ha	12:49	2.0	11922	S14 W00	1F	---	336/I	
		Ha	13:04	3.5	11922	S11 W03	SN	2/5	340/II	
		SXR	12:53	4.0	BP- C	306	M6.2			
211	418 ₁	06 16	Ha	01:06	0.2	11926	S12 W02	SN	---	336/I
			SXR	00:20	2.0	BY- C	305	C2		340/II
212	418 ₂	06 16	Ha	03:20	0.7	11928	N12 E66	1N	---	336/I
			SXR	03:20	2.0	BP- C	240	C2		340/II
213	419 ₁	06 17	Ha	14:14	0.8	11930	S12 E63	SF	---	336/I
			SXR	14:14	2.0	BP- C	231	C2		340/II
214	419 ₂	06 17	Ha	17:14	0.5	11930	S13 E59	SN	1-/3	336/I
			Ha	17:10	1.3	11930	S09 E59	SF		340/II
			SXR	17:28	2.0	BP- C	231	C7.8		
215	419 ₃	06 19	Ha	01:01E	0.4D	11926	S08 W22	SF	---	336/I
			18 SXR	23:10	2.5	BY-J	305	C3		340/II
216	419 ₄	06 19	Ha	09:17E	0.5D	11930	S12 E29	SF	---	336/I
			Ha	09:39	0.6	11922	S16 W77	1N		340/II
			SXR	09:39	2.5	- B	340	C4		
217	419 ₅	06 20	Ha	03:19	0.3	11930	S06 E23	SN	1-/1	336/I
			SXR	03:22	3.5	BP- D	235	C2		340/II
218	419 ₆	06 22	Ha	00:24	0.3	11933	N09 E58	SF	1-/1	336/I
			SXR	00:24	2.0	D - C	170	C4		340/II
219	419 ₇	06 22	Ha	21:47	0.3	11930	S11 E09	SN	---	336/I
			SXR	19:00	4.0	BP - C	231	C2		340/II
220	419 ₈	06 23	Ha	07:01	0.7	11930	S11 W30	1N	---	336/I
			SXR	06:00	2.0	BP - C	231	C1		340/II
221	420 ₁	06 23	Ha	22:11	0.6	S11 W26	11930	SB	---	336/I
			SXR	22:22	2.0	BP - C	231	C4.0		340/II

222	424 ₁	06 25	Ha	08:02	0.8	11933	N10 E16	SN	1+/3	336/I
			SXR	08:02	2.0	BP - C	169	C4.3		340/II
223	424 ₂	06 27	Ha	08:06	0.5	11930	S10 W58	SF	---	336/I
			SXR	08:06	2.0	BP - H	231	C1		340/II
224	424 ₃	06 29	Ha	00:26E	0.1D	11930	S10 W84	SF	---	336/I
		28	SXR	23:00	3.0	BP - B	215	C3		
		29	Ha	01:30	1.2	11932	S18 W60	1F	---	340/II
225	424 ₄	06 29	Ha	07:24	0.7	11939	N07 E24	SN	---	336/I
			SXR	07:32	2.0	BP- D	105	C4.0		340/II
226	424 ₅	06 29	Ha	14:16	0.1	11939	N07 E25	SN	---	336/I
			SXR	14:06	2.0	BP- D	105	C2		340/II
227	424 ₆	06 29	Ha	18:58E	0.1D	11936	S10 W03	SF	---	336/I
			SXR	19:00	5.0	BP- A	128	C1		340/II
228	424 ₇	07 01	Ha	03:04E	0.5	11939	N06 W01	1F	---	337/I
			SXR	03:04	3.0	BP- D	105	C1		341/II
229	424 ₈	07 02	Ha	06:51	0.2D	11939	N07 W12	SF	1-/1	337/I
			SXR	06:51	3.5	B - D	107	C1		341/II
230	424 ₉	07 02	Ha	13:46	0.9	11939	N06 W18	SN	---	337/I
			SXR	13:46	2.0	B - D	107	C1		341/II
231	424 ₁₀	07 03	Ha	08:55	0.3	11950	S01 W30	SF	---	337/I
			SXR	08:55	2.5	B - B	098	C1		341/II
			Ha	09:23E	0.2	<u>11949</u> BP - D	S09 E88 355	SN	---	341/II
232	424 ₁₁	07 03	Ha	17:29	0.7	11950	S01 W34	SN	1-/1	337/I
			Ha	17:34	1.0	11939	N06 W36	SB	1-/3	341/II
			SXR	17:42	2.0	B - D	105	C5.9		
233	424 ₁₂	07 04	Ha	05:02E	0.4	11949	S09 E76	SN	1-/3	337/I
			Ha	05:26	0.3	11949	S12 E74	SN		341/II
			SXR	05:27	2.0	BP - D	354	C8.1		
234	424 ₁₃	07 04	Ha	11:33	0.5	11949	S12 E71	SN	1-/3	337/I
			Ha	11:54	0.5	11949	S15 E71	SN	2/3	341/II
			SXR	11:51	2.0	BP - D	354	M1.8		
	425	07 04	Ha	17:15	0.5	11949	S12 E68	SF/M1.8	1/5	337/I
			Ha	18:04	0.4	11949	S11 E67	SB	2/5	341/II
			Ha	19:15	0.1	11949	S09 E62	SN	---	
			SXR	17:11	2.0	BP- D	354	M4.4		
235	425 ₁	07 04	Ha	22:13	0.1D	11949	S09 E64	SN	1-/1	337/I
			SXR	22:13	2.0	BP - D	354	C4		341/II
236	427 ₁	07 07	Ha	14:18	1.0	11947	N11 E07	SB	---	337/I
			SXR	14:18	2.0	BY- B	016	C4.5		341/II
237	427 ₂	07 08	Ha	00:26E	0.3	11949	S07 E21	SB	1-/1	337/I

237	427 ₂	07 08	SXR	00:26E	2.0	BP- C	354	C4.0		341/II
238	427 ₃	07 08	Ha	06:42	0.4	11949	S09 E19	SF	---	337/I
			Ha	07:29	0.3	11949	S09 E20	SN	1-/3	341/II
			SXR	07:29	2.5	BP- C	354	C2		
239	427 ₄	07 08	Ha	17:40	0.2	11949	S10 E15	SN	---	337/I
			SXR	17:40	2.5	BP- C	354	C2		341/II
240	427 ₅	07 09	Ha	07:49	0.1	11947	N12 W17	SN	---	337/I
			SXR	07:49	4.5	BY - B	016	C1		341/II
241	427 ₆	07 09	Ha	23:09	2.0	11947	N09 W04	1N	---	337/I
			SXR	23:09	2.5	AP- J	017	C2		341/II
242	427 ₇	07 10	Ha	08:22	1.2	11949	S05 W12	1B	2/5	337/I
			SXR	08:28	2.0	BP- C	354	M1.3		341/II
243	427 ₈	07 11	Ha	12:00E	0.5D	11947	N12 W48	1F	---	337/I
			SXR	11:00	2.5	BY- J	016	C2		341/II
244	428 ₁	07 13	Ha	16:04	0.8	11957	N12 W66	SN	1-/3	337/I
			SXR	16:21	2.0	BF- C	005	C4.8		341/II
245	428 ₂	07 14	Ha	00:06E	0.7	11957	N12 W69	SN	1-/3	337/I
			SXR	00:05E	2.5	BF- J	005	C8		341/II
246	428 ₃	07 14	Ha	07:10	0.9	11957	N12 W71	SN	---	337/I
			Ha	07:25E	2.5	11957	N10 W73	SF	---	341/II
			SXR	07:10	2.0	BF- J	005	C5		
247	428 ₄	07 14	Ha	13:18	0.5	11957	N12 W75	SN	C4.4	341/II
			SXR	13:18	2.0	BP- J	005	C4.4	1/3	337/I
248	429 ₁	07 15	Ha	13:35	0.3	11958	S11 E50	SF	---	337/I
			SXR	13:35	3.5	AP- J	242	C1		341/II
249	429 ₂	07 16	Ha	01:13	0.3	11958	S10 E43	1N	---	337/I
			SXR	00:31	6.0	AP- J	242	C2		341/II
250	429 ₃	07 18	Ha	02:27	0.3	11958	S06 E20	SN	---	337/I
			SXR	02:27	4.0	AP- J	242	C1		341/II
251	429 ₄	07 21	Ha	02:10	0.4	11958	S10 W38	SB	---	337/I
			SXR	02:10	2.0	AP- J	242	C2		341/II
252	429 ₅	07 21	Ha	03:56	0.1	11956	N09 W40	SN	---	337/I
			SXR	03:56	2.0	AP-A	246	C2		341/II
253	429 ₆	07 21	Ha	20:53	0.6	11956	N08 W50	SB	1-/3	337/I
			SXR	20:53	2.0	AP-A	246	C6.4		341/II
254	429 ₇	07 23	Ha	17:14	0.1	11970	S16 E88	SF	1-/5	337/I
			SXR	17:00	2.0	BF- D	089	C3.9		341/II
255	429 ₈	07 27	Ha	19:27	0.3	11970	S16 E36	SF	---	337/I
			SXR	19:00	2.0	BF- D	089	C1		341/II

bých LDE erupcií SXR triedy C, b) nových LDE erupcií s dobou trvania v SXR 2 hodiny, c) dokompletovania údajov pre niektoré mohutnejšie, skôr publikované LDE erupcie.

1. INTRODUCTION

The purpose of this paper is to compile a list of LDE flares for the latter months of solar activity cycle 21 and the early months of solar activity cycle 22. Table 1 contains the LDE flares observed from July 1986 to June 1988 (cycle 22) and ties in timewise with the Catalogue of LDE flares and its Supplement (Antalová 1987, 1988).

Table 2 presents new data on the LDE flares observed from January 1969 to June 1986. The method for selecting the LDE flares has been described in previous papers. The identification of LDE flares with optical H-alpha flares was carried out by comparison with the flare lists published in Solar Geophysical Data.

2. LDE FLARE LIST LAY-OUT

The catalogue numbering of the new LDE flares of July 1986 - June 1988 (the onset of the 22nd cycle) and the lay-out of Table 1 is identical with that of the Catalogue of LDE flares (Antalová 1987).

The lay-out and numbering of Table 2 are identical with those introduced in the Supplement of the Catalogue of LDE flares (Antalová 1988).

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-: 1988, Contr. Astron. Obs. Skalnaté Pleso 17, 301.
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