

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left, E down, rotate 270 CCW)
fr85g001.fits	1P/Halley	06:06:47.49	+19:11:21.4	V	08/21/85	+11:43:05		most times in header are wrong
fr85g002.fits	1P/Halley	06:06:47.49	+19:11:21.4	V	08/21/85	+11:45:42		
fr85g003.fits	1P/Halley	06:06:47.49	+19:11:21.4	V	08/21/85	+11:49:40		
fr85g004.fits	1P/Halley	06:06:48.11	+19:11:22.5	R	08/21/85	+11:52:13		
fr85g005.fits	1P/Halley	06:06:48.11	+19:11:22.5	I	08/21/85	+11:55:01		
fr85g006.fits	1P/Halley	06:06:48.11	+19:11:22.5	V	08/21/85	+11:58:34		
fr85g007.fits	FLAT FIELD			V	08/21/85	+12:06:04	xName	In signed file as a standard, but in log as flat field? Not a flat field, confirmed as SA 68-216 (00:18:17.04, +15:49:19.2) - BG
fr85g008.fits	FLAT FIELD			V	08/21/85	+12:10:16	xName	In signed file as a standard, but in log as flat field? Not a flat field, confirmed as SA 68-216 (00:18:17.04, +15:49:19.2) - BG
fr85g009.fits	FLAT FIELD			V	08/21/85	+12:13:14	xName	In signed file as a standard, but in log as flat field? Not a flat field, confirmed as SA 68-216 (00:18:17.04, +15:49:19.2) - BG
fr85g010.fits	FLAT FIELD			V	08/21/85	+12:15:37	xName	In signed file as a standard, but in log as flat field? Not a flat field, confirmed as SA 68-216 (00:18:17.04, +15:49:19.2) - BG
fr85g011.fits	"FLAT FIELD"			V	08/21/85			
fr85g012.fits	"FLAT FIELD"			V	08/21/85			
fr85g013.fits	"FLAT FIELD"			V	08/21/85			
fr85g014.fits	"FLAT FIELD"			R	08/21/85			
fr85g015.fits	"FLAT FIELD"			R	08/21/85			
fr85g016.fits	DARK			R	08/21/85			
fr85g017.fits	DARK			R	08/21/85			
fr85g018.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	V	8/22/85	+16:59:26	xtime, xdate	
fr85g019.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	V	8/22/85	+17:03:19	xtime, xdate	
fr85g020.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	R	8/22/85	+17:11:46	xtime, xdate	
fr85g021.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	R	8/22/85	+17:15:06	xtime, xdate	
fr85g022.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	I	8/22/85	+17:23:23	xtime, xdate	
fr85g023.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	I	8/22/85	+17:26:29	xtime, xdate	
fr85g024.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	I	8/22/85	+17:34:38	xtime, xdate	
fr85g025.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	B	8/22/85	+17:42:21	xtime, xdate	
fr85g026.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	B	8/22/85	+17:48:12	xtime, xdate	
fr85g027.fits	"NGC 6814"	19:42:40.64	-10:19:24.6	B	8/22/85	+17:58:05	xtime, xdate	
fr85g028.fits	DARK			B	8/22/85		xdate	
fr85g029.fits	DARK			B	8/22/85		xdate	
fr85g030.fits	SA 68-216	00:18:17.04	+15:49:19.2	B	8/22/85	+18:35:29	xtime, xdate	
fr85g031.fits	SA 68-216	00:18:17.04	+15:49:19.2	B	8/22/85	+18:31:41	xtime, xdate	
fr85g032.fits	SA 68-216	00:18:17.04	+15:49:19.2	V	8/22/85	+18:46:47	xtime, xdate	
fr85g033.fits	SA 68-216	00:18:17.04	+15:49:19.2	V	8/22/85	+18:49:38	xtime, xdate	
fr85g034.fits	SA 68-216	00:18:17.04	+15:49:19.2	R	8/22/85	+18:51:33	xtime, xdate	
fr85g035.fits	SA 68-216	00:18:17.04	+15:49:19.2	R	8/22/85	+18:59:46	xtime, xdate	
fr85g036.fits	SA 68-216	00:18:17.04	+15:49:19.2	I	8/22/85	+19:02:12	xtime, xdate	
fr85g037.fits	SA 68-216	00:18:17.04	+15:49:19.2	I	8/22/85	+19:04:13	xtime, xdate	
fr85g038.fits	SA 68-216	00:18:17.04	+15:49:19.2	V	8/22/85	+19:37:45	xtime, xdate	
fr85g039.fits	SA 68-216	00:18:17.04	+15:49:19.2	V	8/22/85	+19:42:44	xtime, xdate	

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fr85g040.fits	SA 68-216	00:18:17.04	+15:49:19.2	R	8/22/85	+19:44:39	xtime, xdate	
fr85g041.fits	SA 68-216	00:18:17.04	+15:49:19.2	I	8/22/85	+19:46:08	xtime, xdate	
fr85g042.fits	SA 68-216	00:18:17.04	+15:49:19.2	B	8/22/85	+19:47:51	xtime, xdate	
fr85g043.fits	21P/ Giacobini-Zinner	04:12:41.24	+49:08:41.7	V	8/22/85	9:04:04	xtime, xdate	corrected time
fr85g044.fits	21P/ Giacobini-Zinner	04:12:41.24	+49:08:41.7	V	8/22/85	9:08:20	xtime, xdate	corrected time
fr85g045.fits	21P/ Giacobini-Zinner	04:12:41.24	+49:08:41.7	R	8/22/85	9:11:12	xtime, xdate	corrected time
fr85g046.fits	21P/ Giacobini-Zinner	04:12:41.24	+49:08:41.7	R	8/22/85	9:15:56	xtime, xdate	corrected time
fr85g047.fits	21P/ Giacobini-Zinner	04:12:41.24	+49:08:41.7	I	8/22/85	9:17:55	xtime, xdate	corrected time
fr85g048.fits	21P/ Giacobini-Zinner	04:12:49.84	+49:07:27.0	I	8/22/85	9:20:22	xtime, xdate	corrected time
fr85g049.fits	21P/ Giacobini-Zinner	04:12:49.84	+49:07:27.0	B	8/22/85	9:23:05	xtime, xdate	corrected time
fr85g050.fits	21P/ Giacobini-Zinner	04:12:49.84	+49:07:27.0	B	8/22/85	9:25:27	xtime, xdate	corrected time
fr85g051.fits	21P/ Giacobini-Zinner	04:12:49.84	+49:07:27.0	R	8/22/85	9:28:31	xtime, xdate	corrected time
fr85g052.fits	21P/ Giacobini-Zinner	04:12:49.84	+49:07:27.0	V	8/22/85	9:34:02	xtime, xdate	corrected time
fr85g053.fits	1P/Halley	06:07:15.49	+19:12:08.1	V	8/22/85	10:11:42	xtime, xdate	corrected time
fr85g054.fits	1P/Halley	06:07:15.49	+19:12:08.1	V	8/22/85	10:17:11	xtime, xdate	corrected time
fr85g055.fits	1P/Halley	06:07:15.49	+19:12:08.1	V	8/22/85	10:24:11	xtime, xdate	corrected time
fr85g056.fits	1P/Halley	06:07:16.10	+19:12:09.3	V	8/22/85	10:35:35	xtime, xdate	corrected time
fr85g057.fits	"DARK FRAME"				8/22/85		xdate	
fr85g058.fits	"DARK FRAME"				8/22/85		xdate	
fr85g059.fits	1P/Halley	06:07:16.71	+19:12:10.4	V	8/22/85	10:50:26	xtime, xdate	corrected time
fr85g060.fits	1P/Halley	06:07:16.71	+19:12:10.4	R	8/22/85	10:55:43	xtime, xdate	corrected time
fr85g061.fits	1P/Halley	06:07:16.71	+19:12:10.4	R	8/22/85	10:59:45	xtime, xdate	corrected time
fr85g062.fits	1P/Halley	06:07:16.71	+19:12:10.4	R	8/22/85	11:04:01	xtime, xdate	corrected time
fr85g063.fits	1P/Halley	06:07:16.71	+19:12:10.4	I	8/22/85	11:06:58	xtime, xdate	corrected time
fr85g064.fits	1P/Halley	06:07:16.71	+19:12:10.4	I	8/22/85	11:10:46	xtime, xdate	corrected time
fr85g065.fits	1P/Halley	06:07:16.71	+19:12:10.4	V	8/22/85	11:15:45	xtime, xdate	corrected time
fr85g066.fits	1P/Halley	06:07:17.31	+19:12:11.6	B	8/22/85	11:27:21	xtime, xdate	corrected time
fr85g067.fits	1P/Halley	06:07:17.31	+19:12:11.6	B	8/22/85	11:30:15	xtime, xdate	corrected time
fr85g068.fits	1P/Halley	06:07:17.31	+19:12:11.6	V	8/22/85	11:33:57	xtime, xdate	corrected time
fr85g069.fits	1P/Halley	06:07:17.31	+19:12:11.6	V	8/22/85	11:36:56	xtime, xdate	corrected time
fr85g070.fits	1P/Halley	06:07:17.31	+19:12:11.6	V	8/22/85	11:43:11	xtime, xdate	corrected time
fr85g071.fits	"DARK FRAME"			V	8/22/85		xdate	

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fr85g072.fits	"FLAT FIELD"			V	8/22/85		xdate	
fr85g073.fits	"FLAT FIELD"			V	8/22/85		xdate	
fr85g074.fits	"FLAT FIELD"			V	8/22/85		xdate	
fr85g075.fits	"FLAT FIELD"			R	8/22/85		xdate	
fr85g076.fits	"FLAT FIELD"			R	8/22/85		xdate	
fr85g077.fits	"FLAT FIELD"			I	8/22/85		xdate	
fr85g078.fits	"FLAT FIELD"			I	8/22/85		xdate	
fr85g079.fits	"FLAT FIELD"			B	8/22/85		xdate	
fr85g080.fits	"FLAT FIELD"			B	8/22/85		xdate	
fr85g081.fits	"DARK FRAME"				8/22/85		xdate	
fr85g082.fits	HELIUM				8/23/85	+02:23:30	xdate	
fr85g083.fits	HELIUM				8/23/85	+02:29:23	xdate	
fr85g084.fits	ARGON				8/23/85	+02:32:23	xdate	
fr85g085.fits	ARGON				8/23/85	+02:38:53	xdate	
fr85g086.fits	XENON				8/23/85	+02:42:13	xdate	
fr85g087.fits	XENON				8/23/85	+02:43:47	xdate	
fr85g088.fits	NEON				8/23/85	+02:50:07	xdate	
fr85g089.fits	NEON				8/23/85	+02:51:26	xdate	
fr85g090.fits	MERCURY				8/23/85	+02:57:36	xtime, xdate	cannot get ra/dec bc time is not in log and assuming header time is wrong, Log says Mercury arc, so it should be a standard rather than object. Possibly mercury lamp? - BG
fr85g091.fits	"CONT LAMP"				8/23/85	+03:04:00	xdate	
fr85g092.fits	"10 LAC"	22:39:15.68	+39:03:01.0		8/23/85	+05:57:33	xtime, xdate	Assuming correct field
fr85g093.fits	"10 LAC"	22:39:15.68	+39:03:01.0		8/23/85	+05:59:21	xtime, xdate	
fr85g094.fits	"10 LAC"	22:39:15.68	+39:03:01.0		8/23/85	+06:01:47	xtime, xdate	
fr85g095.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:02:51	xtime, xdate	Assuming correct field
fr85g096.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:06:10	xtime, xdate	
fr85g097.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:15:43	xtime, xdate	
fr85g098.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:24:39	xtime, xdate	
fr85g099.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:40:43	xtime, xdate	
fr85g100.fits	"BS 937"	03:09:04.02	+49:36:47.8		8/23/85	+07:41:53	xtime, xdate	
fr85g101.fits	21P/ Giacobini-Zinner	04:19:40.69	+48:05:25.1		8/23/85	9:22:05	xtime, xdate	corrected time
fr85g102.fits	21P/ Giacobini-Zinner	04:19:40.69	+48:05:25.1		8/23/85	9:35:31	xtime, xdate	corrected time
fr85g103.fits	21P/ Giacobini-Zinner	04:19:49.02	+48:04:07.3		8/23/85	10:02:48	xtime, xdate	corrected time
fr85g104.fits	"BS 2047"	05:54:22.98	+20:16:34.2		8/23/85	+09:26:35	xtime, xdate	Assuming correct field
fr85g105.fits	"BS 2047"	05:54:22.98	+20:16:34.2		8/23/85	+09:27:57	xtime, xdate	
fr85g106.fits	"BS 2047"	05:54:22.98	+20:16:34.2		8/23/85	+09:29:13	xtime, xdate	
fr85g107.fits	1P/Halley	06:07:46.00	+19:13:00.6		8/23/85	11:14:05	xtime, xdate	corrected time
fr85g108.fits	1P/Halley	06:07:46.60	+19:13:01.8		8/23/85	11:26:15	xtime, xdate	corrected time
fr85g109.fits	1P/Halley	06:07:46.60	+19:13:01.8		8/23/85	11:34:36	xtime, xdate	corrected time
fr85g110.fits	1P/Halley	06:07:46.60	+19:13:01.8		8/23/85	11:46:19	xtime, xdate	corrected time

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fr85g111.fits	"FLAT FIELD"				8/23/85		xdate	
fr85g112.fits	"FLAT FIELD"				8/23/85		xdate	
fr85g113.fits	"FLAT FIELD"				8/23/85		xdate	
fr85g114.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/24/85	+10:08:10		Assuming correct field
fr85g115.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/24/85	+10:11:46		
fr85g116.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/24/85	+10:13:37		
fr85g117.fits	1P/Halley	06:08:14.15	+19:13:49.8		08/24/85	+10:30:26		
fr85g118.fits	1P/Halley	06:08:14.15	+19:13:49.8		08/24/85	+10:46:32		
fr85g119.fits	1P/Halley	06:08:14.74	+19:13:51.0		08/24/85	+11:04:02		
fr85g120.fits	1P/Halley	06:08:15.32	+19:13:52.1		08/24/85	+11:21:24		
fr85g121.fits	1P/Halley	06:08:15.32	+19:13:52.1		08/24/85	+11:41:43		
fr85g122.fits	1P/Halley	06:08:15.09	+19:13:53.3		08/24/85	+11:55:08		
fr85g123.fits	"FLAT FIELD"				08/24/85	+12:36:52		
fr85g124.fits	"FLAT FIELD"				08/24/85	+12:38:13		
fr85g125.fits	"FLAT FIELD"				08/24/85	+12:40:12	xName	Dark
fr85g126.fits	"FLAT FIELD"				08/24/85	+12:41:21	xName	Dark
fr85g127-238								Frames missing in log and files
fr85g239.fits	"FLAT FIELD"				08/28/85	+07:43:53		
fr85g240.fits	"FLAT FIELD"				08/28/85	+07:45:02		
fr85g241.fits	"FLAT FIELD"				08/28/85	+07:45:57		
fr85g242.fits	DARK				08/28/85	+07:49:08		
fr85g243.fits	DARK				08/28/85	+07:50:13		
fr85g244.fits	"FLAT FIELD"				08/28/85	+07:52:06		
fr85g245.fits	"FLAT FIELD"				08/28/85	+07:53:48		
fr85g246.fits	"FLAT FIELD"				08/28/85	+07:54:54		
fr85g247.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/28/85	+10:40:39		Assuming correct field
fr85g248.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/28/85	+10:43:13		
fr85g249.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/28/85	+10:44:58		
fr85g250.fits	1P/Halley	06:10:03.7	19:17:14.9		08/28/85	+11:12:09		
fr85g251.fits	"SAO 47529"	18:29:03.93	+43:56:21.4		08/29/85	+05:33:15		
fr85g252.fits	"SAO 47529"	18:29:03.93	+43:56:21.4		08/29/85	+05:37:16		
fr85g253.fits	"SAO 47529"	18:29:03.93	+43:56:21.4		08/29/85	+05:39:04		
fr85g254.fits	1828+487				08/29/85	+05:57:35	xName	Dark
fr85g255.fits	1828+487	18:29:10.03	+48:41:50		08/29/85	+06:03:59		
fr85g256.fits	1828+487	18:29:12.5	+48:41:55		08/29/85	+06:17:55		
fr85g257.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+06:50:13		Assuming correct field
fr85g258.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+06:51:38		
fr85g259.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+06:52:42		
fr85g260.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+06:55:03		
fr85g261.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+07:25:41		
fr85g262.fits	"BS 8622"	22:39:15.68	+39:03:01.0		08/29/85	+07:26:55		
fr85g263.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+07:52:25		Assuming correct field
fr85g264.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+07:54:47		
fr85g265.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+08:07:47		
fr85g266.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+08:10:03		

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fr85g267.fits	"DARK FRAME"				08/29/85	+08:12:47		
fr85g268.fits	"DARK FRAME"				08/29/85	+08:13:52		
fr85g269.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+08:35:14		Assuming correct field
fr85g270.fits	"BS 937"	03:09:04.02	+49:36:47.8		08/29/85	+08:36:55		
fr85g271.fits	21P/ Giacobini-Zinner	04:56:32.25	+41:08:30.4		08/29/85	+08:54:55		
fr85g272.fits	21P/ Giacobini-Zinner	04:56:32.25	+41:08:30.4		08/29/85	+09:19:35		
fr85g273.fits	21P/ Giacobini-Zinner	04:56:39.18	+41:06:57.3		08/29/85	+09:44:09		
fr85g274.fits	DARK				08/29/85			
fr85g275.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/29/85	+10:36:53		Assuming correct field
fr85g276.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/29/85	+10:38:53		
fr85g277.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/29/85	+10:51:44		
fr85g278.fits	"BS 2047"	05:54:22.98	+20:16:34.2		08/29/85	+10:52:44		
fr85g279.fits	1P/Halley	06:10:03.7	+19:17:14.9		08/29/85	+11:08:08		
fr85g280.fits	1P/Halley	06:10:04.23	+19:17:16.0		08/29/85	+11:31:38		
fr85g281.fits	DARK				08/29/85			
fr85g282.fits	DARK				08/29/85			
fr85g283.fits	"FLAT FIELD"				08/29/85			
fr85g284.fits	"FLAT FIELD"				08/29/85			
fr85g285.fits	"FLAT FIELD"				08/29/85			
fr85g286.fits	"FLAT FIELD"				08/29/85			
fr85g287.fits	"FLAT FIELD"				08/29/85			
fr85g288.fits	"FLAT FIELD"				08/29/85			
fr85g289.fits	"FLAT FIELD"				08/29/85			