

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-START	Log Differences	Comments (N right E down, rotate 270 CC)
								Time off by +/- 4 minutes
fr87f001.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+03:27:13		SA 101-281
fr87f002.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+03:30:39		
fr87f003.fits	1P/Halley	10:09:03.82	-10:42:24.9	R	03/27/87	+03:47:10		
fr87f004.fits	1P/Halley	10:09:03.14	-10:42:18.7	R	03/27/87	+04:09:17		
fr87f005.fits	1P/Halley	10:09:02.45	-10:42:12.5	R	03/27/87	+04:30:44		
fr87f006.fits	1P/Halley	10:09:01.77	-10:42:06.3	R	03/27/87	+04:45:49		
fr87f007.fits	1P/Halley	10:09:01.43	-10:42:03.3	R	03/27/87	+04:58:36		
fr87f008.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+05:13:10		SA 101-281
fr87f009.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+05:19:08		
fr87f010.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+05:41:17		taken after 11
fr87f011.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+05:36:55		
fr87f012.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+05:46:03		
fr87f013.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+05:51:51		
fr87f014.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/27/87	+06:09:46		SA 101057
fr87f015.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/27/87	+06:12:01		SA 101057
fr87f016.fits	1P/Halley	10:08:58.70	-10:41:38.5	R	03/27/87	+06:20:46		
fr87f017.fits	1P/Halley	10:08:58.02	-10:41:32.3	R	03/27/87	+06:37:06		
fr87f018.fits	1P/Halley	10:08:57.67	-10:41:29.2	R	03/27/87	+06:51:29		
fr87f019.fits	1P/Halley	10:08:56.99	-10:41:23.0	R	03/27/87	+07:07:07		
fr87f020.fits	1P/Halley	10:08:56.65	-10:41:19.9	R	03/27/87	+07:22:31		
fr87f021.fits	1P/Halley	10:08:55.97	-10:41:13.7	R	03/27/87	+07:37:10		
fr87f022.fits	1P/Halley	10:08:55.63	-10:41:10.6	R	03/27/87	+07:50:42		
fr87f023.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+08:08:29		
fr87f024.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/27/87	+08:10:53		
fr87f025.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+08:17:14		SA 101-281
fr87f026.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/27/87	+08:19:33		SA 101-281
fr87f027.fits	FF			R	03/27/87	+08:32:55		
fr87f028.fits	FF			R	03/27/87	+08:34:02		
fr87f029.fits	FF			R	03/27/87	+08:35:02		
fr87f030.fits	BS 5968	16:01:02.66	+33:18:12.6	9180	03/27/87	+09:34:10		
fr87f031.fits	BS 5968	16:01:02.66	+33:18:12.6	9180	03/27/87	+09:35:33		
fr87f032.fits	BS 5968	16:01:02.66	+33:18:12.6	8600	03/27/87	+09:39:17		
fr87f033.fits	BS 5968	16:01:02.66	+33:18:12.6	8600	03/27/87	+09:42:16		
fr87f034.fits	BS 5968	16:01:02.66	+33:18:12.6	6250	03/27/87	+09:44:16		
fr87f035.fits	BS 5968	16:01:02.66	+33:18:12.6	6250	03/27/87	+09:45:21		
fr87f036.fits	BS 5968	16:01:02.66	+33:18:12.6	6185	03/27/87	+09:50:38		
fr87f037.fits	BS 5968	16:01:02.66	+33:18:12.6	6185	03/27/87	+09:54:18		
fr87f038.fits	BS 5968	16:01:02.66	+33:18:12.6	6300IN	03/27/87	+09:58:19		
fr87f039.fits	BS 5968	16:01:02.66	+33:18:12.6	6300IN	03/27/87	+09:59:28		
fr87f040.fits	BS 5968	16:01:02.66	+33:18:12.6	6300O UT	03/27/87	+10:00:43		
fr87f041.fits	BS 5968	16:01:02.66	+33:18:12.6	6300O UT	03/27/87	+10:01:46		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N right E down, rotate 270 CC)
fr87f042.fits	BS 5968	16:01:02.66	+33:18:12.6	5980	03/27/87	+10:04:49		
fr87f043.fits	BS 5968	16:01:02.66	+33:18:12.6	5980	03/27/87	+10:05:51		
fr87f044.fits	BS 5968	16:01:02.66	+33:18:12.6	5139	03/27/87	+10:09:21		
fr87f045.fits	BS 5968	16:01:02.66	+33:18:12.6	5139	03/27/87	+10:10:28		
fr87f046.fits	BS 5968	16:01:02.66	+33:18:12.6	4565	03/27/87	+10:12:25		
fr87f047.fits	BS 5968	16:01:02.66	+33:18:12.6	4060	03/27/87	+10:15:37		
fr87f048.fits	FF			R	03/27/87	+10:22:59		
fr87f049.fits	FF			R	03/27/87	+10:24:32		
fr87f050.fits	FF			R	03/27/87	+10:25:27		
fr87f051.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/28/87	+02:34:16		SA 101-281
fr87f052.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/28/87	+02:50:59		SA 101-281
fr87f053.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/28/87	+02:53:45		SA 101-281
fr87f054.fits	1P/Halley	10:08:17.40	-10:35:15.5	R	03/28/87	+03:01:52		
fr87f055.fits	1P/Halley	10:08:16.73	-10:35:09.3	R	03/28/87	+03:17:03		
fr87f056.fits	BD +8-2015	08:15:41.54	+07:37:05.2	R	03/28/87	+03:44:18		
fr87f057.fits	BD +8-2015	08:15:41.54	+07:37:05.2	R	03/28/87	+03:47:49		
fr87f058.fits	BD +8-2015	08:15:41.54	+07:37:05.2	9180	03/28/87	+03:54:38		
fr87f059.fits	BD +8-2015	08:15:41.54	+07:37:05.2	9180	03/28/87	+03:56:50		
fr87f060.fits	BD +8-2015	08:15:41.54	+07:37:05.2	8600	03/28/87	+03:59:30		
fr87f061.fits	BD +8-2015	08:15:41.54	+07:37:05.2	8600	03/28/87	+04:03:40		
fr87f062.fits	BD +8-2015	08:15:41.54	+07:37:05.2	6250	03/28/87	+04:05:49		
fr87f063.fits	BD +8-2015	08:15:41.54	+07:37:05.2	6250	03/28/87	+04:07:25		
fr87f064.fits	BD +8-2015	08:15:41.54	+07:37:05.2	6185	03/28/87	+04:09:21		
fr87f065.fits	BD +8-2015	08:15:41.54	+07:37:05.2	6185	03/28/87	+04:10:46		
fr87f066.fits	BD +8-2015	08:15:41.54	+07:37:05.2	5980	03/28/87	+04:13:43		
fr87f067.fits	BD +8-2015	08:15:41.54	+07:37:05.2	5980	03/28/87	+04:15:05		
fr87f068.fits	1P/Halley	10:08:14.72	-10:34:50.8	R	03/28/87	+04:22:28		
fr87f069.fits	1P/Halley	10:08:14.05	-10:34:44.7	R	03/28/87	+04:35:07		
fr87f070.fits	1P/Halley	10:08:11.03	-10:34:16.9	R	03/28/87	+06:11:58		
fr87f071.fits	1P/Halley	10:08:09.69	-10:34:04.6	R	03/28/87	+06:49:19		
fr87f072.fits	FF			R	03/28/87	+07:11:51	xName	
fr87f073.fits	FF			R	03/28/87	+07:13:33	xName	
fr87f074.fits	FF			R	03/28/87	+07:14:38		
fr87f075.fits	FF			R	03/28/87	+07:15:47		
fr87f076.fits	DARK				03/28/87	+07:16:59		
fr87f077.fits	DARK				03/28/87	+07:17:51		
fr87f078.fits	"BS 5968"	16:01:02.66	+33:18:12.6	9180	03/28/87	+09:12:47		
fr87f079.fits	"BS 5968"	16:01:02.66	+33:18:12.6	9180	03/28/87	+09:14:41		
fr87f080.fits	"BS 5968"	16:01:02.66	+33:18:12.6	8600	03/28/87	+09:16:40		
fr87f081.fits	"BS 5968"	16:01:02.66	+33:18:12.6	8600	03/28/87	+09:17:54		
fr87f082.fits	"BS 5968"	16:01:02.66	+33:18:12.6	6250	03/28/87	+09:19:31		
fr87f083.fits	"BS 5968"	16:01:02.66	+33:18:12.6	6250	03/28/87	+09:20:31		
fr87f084.fits	"BS 5968"	16:01:02.66	+33:18:12.6	6185	03/28/87	+09:25:19		
fr87f085.fits	"BS 5968"	16:01:02.66	+33:18:12.6	6185	03/28/87	+09:28:27		

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fr87f086.fits	"BS 5968"	16:01:02.66	+33:18:12.6	5980	03/28/87	+09:31:01		
fr87f087.fits	"BS 5968"	16:01:02.66	+33:18:12.6	5980	03/28/87	+09:32:00		
fr87f088.fits	"BS 5968"	16:01:02.66	+33:18:12.6	5139	03/28/87	+09:33:36		
fr87f089.fits	"BS 5968"	16:01:02.66	+33:18:12.6	5139	03/28/87	+09:34:33		
fr87f090.fits	"BS 5968"	16:01:02.66	+33:18:12.6	4565	03/28/87	+09:36:10		
fr87f091.fits	"BS 5968"	16:01:02.66	+33:18:12.6	4565	03/28/87	+09:37:10		
fr87f092.fits	"BS 5968"	16:01:02.66	+33:18:12.6	4060	03/28/87	+09:38:32		
fr87f093.fits	"BS 5968"	16:01:02.66	+33:18:12.6	4060	03/28/87	+09:39:33		
fr87f094.fits	"BS 6458"	17:20:39.57	+32:28:03.7	5980	03/28/87	+09:51:17		
fr87f095.fits	"BS 6458"	17:20:39.57	+32:28:03.7	5980	03/28/87	+09:52:26		
fr87f096.fits	"BS 6458"	17:20:39.57	+32:28:03.7	5139	03/28/87	+09:54:02		
fr87f097.fits	"BS 6458"	17:20:39.57	+32:28:03.7	5139	03/28/87	+09:55:39		
fr87f098.fits	"BS 6458"	17:20:39.57	+32:28:03.7	4565	03/28/87	+09:57:11		
fr87f099.fits	"BS 6458"	17:20:39.57	+32:28:03.7	4060	03/28/87	+09:58:24		
fr87f100.fits	"BS 6458"	17:20:39.57	+32:28:03.7	9180	03/28/87	+10:01:38		
fr87f101.fits	"BS 6458"	17:20:39.57	+32:28:03.7	9180	03/28/87	+10:02:45		
fr87f102.fits	"BS 6458"	17:20:39.57	+32:28:03.7	8600	03/28/87	+10:05:22		
fr87f103.fits	"BS 6458"	17:20:39.57	+32:28:03.7	8600	03/28/87	+10:10:42		
fr87f104.fits	"BS 6458"	17:20:39.57	+32:28:03.7	6250	03/28/87	+10:12:49		
fr87f105.fits	"BS 6458"	17:20:39.57	+32:28:03.7	6250	03/28/87	+10:13:43		
fr87f106.fits	"BS 6458"	17:20:39.57	+32:28:03.7	6185	03/28/87	+10:15:18		
fr87f107.fits	"BS 6458"	17:20:39.57	+32:28:03.7	6185	03/28/87	+10:16:14		
fr87f108.fits	DARK			6185	03/28/87	+10:17:50		
fr87f109.fits	DARK			6185	03/28/87	+10:18:49		
fr87f110.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+02:21:35		SA 101-281
fr87f111.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+02:24:03		SA 101-281
fr87f112.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+02:27:27		
fr87f113.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+02:29:31		
fr87f114.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+02:31:20		
fr87f115.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+02:41:59		
fr87f116.fits	1P/Halley	10:07:30.52	-10:27:55.1	R	03/29/87	+02:48:31		
fr87f117.fits	1P/Halley	10:07:29.86	-10:27:49.0	R	03/29/87	+03:06:01		
fr87f118.fits	1P/Halley	10:07:29.53	-10:27:45.9	R	03/29/87	+03:19:29		
fr87f119.fits	1P/Halley	10:07:29.21	-10:27:42.9	R	03/29/87	+03:31:35		
fr87f120.fits	1P/Halley	10:07:28.88	-10:27:39.8	R	03/29/87	+03:44:37		
fr87f121.fits	1P/Halley	10:07:28.22	-10:27:33.7	R	03/29/87	+03:56:49		
fr87f122.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+04:11:22		
fr87f123.fits	G 162-66	10:33:42.76	-11:41:38.3	R	03/29/87	+04:13:21		
fr87f124.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+04:17:15		SA 101-281
fr87f125.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+04:19:07		SA 101-281
fr87f126.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/29/87	+04:25:26		SA 101057
fr87f127.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/29/87	+04:27:19		SA 101057
fr87f128.fits	1P/Halley	10:07:27.23	-10:27:24.5	R	03/29/87	+04:30:53		
fr87f129.fits	1P/Halley	10:07:26.57	-10:27:18.3	R	03/29/87	+04:45:02		

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fr87f130.fits	1P/Halley	10:07:26.24	-10:27:15.2	R	03/29/87	+04:58:20		
fr87f131.fits	1P/Halley	10:07:25.92	-10:27:12.2	R	03/29/87	+05:10:49		
fr87f132.fits	1P/Halley	10:07:25.59	-10:27:09.1	R	03/29/87	+05:23:32		
fr87f133.fits	1P/Halley	10:07:24.93	-10:27:02.9	R	03/29/87	+05:36:23		
fr87f134.fits	G 162-60	10:28:55.55	+00:50:27.6	R	03/29/87	+05:56:19		
fr87f135.fits	G 162-60	10:28:55.55	+00:50:27.6	R	03/29/87	+05:58:18		
fr87f136.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+06:02:05		SA 101-281
fr87f137.fits	SA 101-281	09:57:05.01	-00:31:42.9	R	03/29/87	+06:04:52		SA 101-281
fr87f138.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/29/87	+06:07:27		SA 101057
fr87f139.fits	SA 101-057	09:58:04.54	-01:01:25.3	R	03/29/87	+06:09:33		SA 101057
fr87f140.fits	1P/Halley	10:07:23.94	-10:26:53.7	R	03/29/87	+06:14:07		
fr87f141.fits	1P/Halley	10:07:23.29	-10:26:47.6	R	03/29/87	+06:27:49		
fr87f142.fits	1P/Halley	10:07:21.65	-10:26:32.2	R	03/29/87	+07:23:58		
fr87f143.fits	1P/Halley	10:07:20.99	-10:26:26.0	R	03/29/87	+07:41:19		
fr87f144.fits	1P/Halley	10:07:20.34	-10:26:19.9	R	03/29/87	+07:56:17		
fr87f145.fits	BS 6458	17:20:39.57	+32:28:03.7	9180	03/29/87	+08:19:05		
fr87f146.fits	BS 6458	17:20:39.57	+32:28:03.7	9180	03/29/87	+08:20:36		
fr87f147.fits	BS 6458	17:20:39.57	+32:28:03.7	8600	03/29/87	+08:22:01		
fr87f148.fits	BS 6458	17:20:39.57	+32:28:03.7	8600	03/29/87	+08:23:04		
fr87f149.fits	BS 6458	17:20:39.57	+32:28:03.7	6250	03/29/87	+08:24:50		
fr87f150.fits	BS 6458	17:20:39.57	+32:28:03.7	6250	03/29/87	+08:26:11		
fr87f151.fits	BS 6458	17:20:39.57	+32:28:03.7	6185	03/29/87	+08:27:26		
fr87f152.fits	BS 6458	17:20:39.57	+32:28:03.7	6185	03/29/87	+08:28:24		
fr87f153.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+08:31:17		
fr87f154.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+08:32:11		
fr87f155.fits	BS 6458	17:20:39.57	+32:28:03.7	5139	03/29/87	+08:33:47		
fr87f156.fits	BS 6458	17:20:39.57	+32:28:03.7	5139	03/29/87	+08:34:50		
fr87f157.fits	BS 6458	17:20:39.57	+32:28:03.7	4565	03/29/87	+08:36:19		
fr87f158.fits	BS 6458	17:20:39.57	+32:28:03.7	4565	03/29/87	+08:37:17		
fr87f159.fits	BS 6458	17:20:39.57	+32:28:03.7	4060	03/29/87	+08:38:39		
fr87f160.fits	BS 6458	17:20:39.57	+32:28:03.7	4060	03/29/87	+08:39:35		
fr87f161.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:23:55		
fr87f162.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:26:50		
fr87f163.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:28:02		
fr87f164.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:29:21		
fr87f165.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:30:21		
fr87f166.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:30:57		
fr87f167.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:35:26		
fr87f168.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:36:03		
fr87f169.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:36:46		
fr87f170.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:37:53		
fr87f171.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:38:48		
fr87f172.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:39:21		
fr87f173.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:54:07		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N right E down, rotate 270 CC)
fr87f174.fits	BS 6458	17:20:39.57	+32:28:03.7	5980	03/29/87	+10:57:40		
fr87f175.fits	BS 6458	17:20:39.57	+32:28:03.7	5139	03/29/87	+10:58:59		
fr87f176.fits	BS 6458	17:20:39.57	+32:28:03.7	5139	03/29/87	+10:59:55		
fr87f177.fits	BS 6458	17:20:39.57	+32:28:03.7	4565	03/29/87	+11:01:41		
fr87f178.fits	BS 6458	17:20:39.57	+32:28:03.7	4565	03/29/87	+11:02:33		
fr87f179.fits	BS 6458	17:20:39.57	+32:28:03.7	4060	03/29/87	+11:03:30		
fr87f180.fits	BS 6458	17:20:39.57	+32:28:03.7	4060	03/29/87	+11:04:27		
fr87f181.fits	BS 6458	17:20:39.57	+32:28:03.7	9180	03/29/87	+11:07:03		
fr87f182.fits	BS 6458	17:20:39.57	+32:28:03.7	9180	03/29/87	+11:07:58		
fr87f183.fits	BS 6458	17:20:39.57	+32:28:03.7	8600	03/29/87	+11:09:48		
fr87f184.fits	BS 6458	17:20:39.57	+32:28:03.7	8600	03/29/87	+11:10:51		
fr87f185.fits	Above output obtained by running: <code>hselect fr*.fits \$f,exptime,object,ra,dec,filter,date,ut-strt yes > 87f_hselect</code> The Log Differences and Comments columns are the observations noted after comparing the FITS header with log sheets.							
fr87f186.fits	BS 6458	17:20:39.57	+32:28:03.7	6250	03/29/87	+11:13:03		
fr87f187.fits	BS 6458	17:20:39.57	+32:28:03.7	6185	03/29/87	+11:13:50		
fr87f188.fits	BS 6458	17:20:39.57	+32:28:03.7	6185	03/29/87	+11:14:43		
fr87f189.fits	DARK			6185	03/29/87	+11:17:08		
fr87f190.fits	DARK			6185	03/29/87	+11:18:18		