

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d001.fit	HELIUM				1986-04-12	+06:24:39	xName	
fr86d002.fit	HELIUM				1986-04-12	+06:31:30	xName	
fr86d003.fit	HELIUM				1986-04-12	+06:34:41	xName	
fr86d004.fit	XENON				1986-04-12	+06:38:05		
fr86d005.fit	XENON				1986-04-12	+06:43:33		
fr86d006.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+04:48:12		
fr86d007.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+04:50:23		
fr86d008.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+04:51:50		
fr86d009.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+04:54:49		
fr86d010.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+04:56:26		
fr86d011.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:00:50		
fr86d012.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:02:51		
fr86d013.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:06:41		
fr86d014.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:09:04		
fr86d015.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:11:58		
fr86d016.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:17:43		
fr86d017.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:18:53		
fr86d018.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:24:23		
fr86d019.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:25:38		
fr86d020.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:28:07		
fr86d021.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:32:39		
fr86d022.fit	"BS 4154"	10:34:12.71	-43:39:52.5		1986-04-14	+05:33:47		
fr86d023.fit	1P/Halley	13:38:50.67	-43:33:06.9		1986-04-14	+06:21:10		
fr86d024.fit	1P/Halley	13:38:41.55	-43:33:27.4		1986-04-14	+06:25:26		
fr86d025.fit	1P/Halley	13:38:41.55	-43:33:27.4		1986-04-14	+06:28:30		
fr86d026.fit	1P/Halley	13:38:41.55	-43:33:27.4		1986-04-14	+06:34:30		
fr86d027.fit	1P/Halley	13:38:32.44	-43:31:47.9		1986-04-14	+06:37:24		
fr86d028.fit	1P/Halley	13:38:32.44	-43:31:47.9		1986-04-14	+06:40:50		
fr86d029.fit	1P/Halley	13:38:23.33	-43:31:08.3		1986-04-14	+06:47:37		
fr86d030.fit	1P/Halley	13:38:23.33	-43:31:08.3		1986-04-14	+06:54:27		
fr86d031.fit	1P/Halley	13:38:14.22	-43:30:28.7		1986-04-14	+07:01:11		
fr86d032.fit	1P/Halley	13:38:05.12	-43:29:49.0		1986-04-14	+07:13:30		
fr86d033.fit	1P/Halley	13:37:46.94	-43:28:29.4		1986-04-14	+07:25:46		
fr86d034.fit	1P/Halley	13:37:37.86	-43:27:49.5		1986-04-14	+07:39:50		
fr86d035.fit	1P/Halley	13:37:29.78	-43:27:09.6		1986-04-14	+07:51:48		
fr86d036.fit	1P/Halley	13:37:10.65	-43:25:49.5		1986-04-14	+08:06:06		
fr86d037.fit	1P/Halley	13:37:10.65	-43:25:49.5		1986-04-14	+08:09:21		
fr86d038.fit	1P/Halley	13:37:10.65	-43:25:49.5		1986-04-14	+08:12:26		
fr86d039.fit	1P/Halley	13:37:01.60	-43:25:09.4		1986-04-14	+08:17:09		
fr86d040.fit	1P/Halley	13:37:01.60	-43:25:09.4		1986-04-14	+08:20:43		
fr86d041.fit	1P/Halley	13:37:01.60	-43:25:09.4		1986-04-14	+08:24:54		
fr86d042.fit	1P/Halley	13:36:52.55	-43:24:29.3		1986-04-14	+08:28:37		
fr86d043.fit	1P/Halley	13:36:43.50	-43:23:49.0		1986-04-14	+08:38:14		
fr86d044.fit	1P/Halley	13:36:43.50	-43:23:49.0		1986-04-14	+08:40:13		
fr86d045.fit	SKY				1986-04-14	+08:58:05		
fr86d046.fit	SKY				1986-04-14	+09:06:35		
fr86d047.fit	SKY				1986-04-14	+09:18:25		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d048.fit	DARK				1986-04-14	+09:25:15		
fr86d049.fit	DARK				1986-04-14	+09:26:15		
fr86d050.fit	SKY				1986-04-14	+09:34:46		
fr86d051.fit	SKY				1986-04-14	+09:44:09		
fr86d052.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+10:35:40		
fr86d053.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+10:37:23		
fr86d054.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+10:38:40		
fr86d055.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+10:42:35		
fr86d056.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+10:57:02		In index as MRK 486
fr86d057.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:03:35		
fr86d058.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:10:30		
fr86d059.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:21:59		
fr86d060.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:28:21		
fr86d061.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:34:59		
fr86d062.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:41:54		
fr86d063.fit	"MKN 486"	15:36:38.36	+54:33:33.2		1986-04-14	+11:48:22		
fr86d064.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+11:58:14		
fr86d065.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+12:00:00		
fr86d066.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+12:01:06		
fr86d067.fit	"SAO 29632"	15:43:30.45	+59:06:49.7		1986-04-14	+12:02:48		
fr86d068.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-14	+12:12:02		
fr86d069.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-14	+12:13:27		
fr86d070.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-14	+12:14:45		
fr86d071.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-14	+12:16:08		
fr86d072.fit	"FLAT FIELD"				1986-04-14	+12:28:42		
fr86d073.fit	"FLAT FIELD"				1986-04-14	+12:30:26		
fr86d074.fit	"FLAT FIELD"				1986-04-14	+12:31:43		
fr86d075.fit	"FLAT FIELD"				1986-04-14	+12:32:52		
fr86d076.fit	"FLAT FIELD"				1986-04-14	+12:34:09		
fr86d077.fit	"FLAT FIELD"				1986-04-14	+12:35:35		
fr86d078.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+05:58:28		
fr86d079.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+06:01:37		
fr86d080.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+06:11:48		
fr86d081.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+06:13:09		
fr86d082.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+06:17:02		
fr86d083.fit	"BS 4154"	10:34:12.71	-60:59:15.5		1986-04-15	+06:18:17		
fr86d084.fit	1P/Halley	13:17:51.65	-41:51:09.4		1986-04-15	+06:38:11		
fr86d085.fit	1P/Halley	13:17:51.65	-41:51:09.4		1986-04-15	+06:42:05		
fr86d086.fit	1P/Halley	13:17:43.40	-41:50:25.6		1986-04-15	+06:46:53		
fr86d087.fit	1P/Halley	13:17:43.40	-41:50:25.6		1986-04-15	+06:49:17		
fr86d088.fit	1P/Halley	13:17:43.40	-41:50:25.6		1986-04-15	+06:52:35		
fr86d089.fit	1P/Halley	13:17:35.16	-41:49:41.7		1986-04-15	+06:59:21		
fr86d090.fit	1P/Halley	13:17:26.93	-41:48:57.7		1986-04-15	+07:07:09		
fr86d091.fit	1P/Halley	13:17:26.93	-41:48:57.7		1986-04-15	+07:09:28		
fr86d092.fit	1P/Halley	13:17:26.93	-41:48:57.7		1986-04-15	+07:12:19		Computer died on this frame
fr86d093.fit	1P/Halley	13:17:02.26	-41:46:45.6		1986-04-15	+07:36:50		
fr86d094.fit	1P/Halley	13:17:02.26	-41:46:45.6		1986-04-15	+07:39:48		
fr86d095.fit	1P/Halley	13:17:02.26	-41:46:45.6		1986-04-15	+07:42:45		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d096.fit	1P/Halley	13:16:45.85	-41:45:17.3		1986-04-15	+08:01:43		
fr86d097.fit	1P/Halley	13:16:45.85	-41:45:17.3		1986-04-15	+08:04:01		
fr86d098.fit	1P/Halley	13:16:37.65	-41:44:33.1		1986-04-15	+08:06:16		
fr86d099.fit	1P/Halley	13:16:21.28	-41:43:04.6		1986-04-15	+08:25:35		
fr86d100.fit	1P/Halley	13:16:21.28	-41:43:04.6		1986-04-15	+08:27:52		
fr86d101.fit	1P/Halley	13:16:21.28	-41:43:04.6		1986-04-15	+08:30:12		
fr86d102.fit	1P/Halley	13:16:13.11	-41:42:20.2		1986-04-15	+08:38:34		
fr86d103.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:09:34		BS 5607??
fr86d104.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:11:07		
fr86d105.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:15:08		
fr86d106.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:41:41		
fr86d107.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:42:43		
fr86d108.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:43:44		
fr86d109.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:45:00		
fr86d110.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:56:57		
fr86d111.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+09:57:56		
fr86d112.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+10:04:07		
fr86d113.fit	BS 5607	15:05:19.17	-41:04:02.1		1986-04-15	+10:05:12		
fr86d114.fit	SKY				1986-04-15	+10:24:32		
fr86d115.fit	SKY				1986-04-15	+10:43:17		
fr86d116.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-15	+11:10:23	xTime	Time is +10m from log
fr86d117.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-15	+11:12:02	xTime	Time is +10m from log
fr86d118.fit	"BS 6629"	17:47:53.56	+02:42:26.2		1986-04-15	+11:13:40	xTime	Time is +10m from log
fr86d119.fit	"FLAT FIELD"				1986-04-15	+11:21:07		
fr86d120.fit	"FLAT FIELD"				1986-04-15	+11:22:40		
fr86d121.fit	"FLAT FIELD"				1986-04-15	+11:23:56		
fr86d122.fit	"FLAT FIELD"				1986-04-15	+11:25:01		
fr86d123.fit	"FLAT FIELD"			R	1986-04-17	+04:40:04		Looks funny
fr86d124.fit	1P/Halley	12:43:25.81	-38:15:15.7	R	1986-04-17	+05:29:12		
fr86d125.fit	1P/Halley	12:43:25.81	-38:15:15.7	R	1986-04-17	+05:32:37		
fr86d126.fit	1P/Halley	12:43:25.81	-38:15:15.7	R	1986-04-17	+05:34:39		
fr86d127.fit	1P/Halley	12:43:19.21	-38:14:28.5	R	1986-04-17	+05:36:15		
fr86d128.fit	1P/Halley	12:43:19.21	-38:14:28.5	R	1986-04-17	+05:37:25		
fr86d129.fit	1P/Halley	12:43:19.21	-38:14:28.5	V	1986-04-17	+05:39:00		
fr86d130.fit	1P/Halley	12:43:19.21	-38:14:28.5	V	1986-04-17	+05:40:46		
fr86d131.fit	1P/Halley	12:43:19.21	-38:14:28.5	V	1986-04-17	+05:41:54		
fr86d132.fit	1P/Halley	12:43:19.21	-38:14:28.5	6185	1986-04-17	+05:43:39		
fr86d133.fit	1P/Halley	12:43:12.61	-38:13:41.2	6185	1986-04-17	+05:45:37		
fr86d134.fit	1P/Halley	12:43:12.61	-38:13:41.2	6250	1986-04-17	+05:49:39		
fr86d135.fit	1P/Halley	12:43:12.61	-38:13:41.2	6250	1986-04-17	+05:54:37		
fr86d136.fit	1P/Halley	12:43:06.01	-38:12:53.9	6250	1986-04-17	+05:57:09		
fr86d137.fit	1P/Halley	12:43:06.01	-38:12:53.9	6185	1986-04-17	+05:59:33		
fr86d138.fit	1P/Halley	12:43:06.01	-38:12:53.9	R	1986-04-17	+06:02:15		
fr86d139.fit	1P/Halley	12:42:59.43	-38:12:06.5	6300	1986-04-17	+06:05:46		
fr86d140.fit	1P/Halley	12:42:59.43	-38:12:06.5	6300	1986-04-17	+06:09:12		
fr86d141.fit	1P/Halley	12:42:52.84	-38:11:19.2	6300TLT	1986-04-17	+06:15:36		
fr86d142.fit	1P/Halley	12:42:52.84	-38:11:19.2	6300TLT	1986-04-17	+06:22:07		
fr86d143.fit	1P/Halley	12:42:39.69	-38:09:44.4	6300	1986-04-17	+06:36:04		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d144.fit	1P/Halley	12:42:26.56	-38:08:09.6	4565	1986-04-17	+06:59:16		
fr86d145.fit	1P/Halley	12:42:26.56	-38:08:09.6	4565	1986-04-17	+07:03:44		
fr86d146.fit	1P/Halley	12:42:20.00	-38:07:22.1	4565	1986-04-17	+07:07:03		
fr86d147.fit	1P/Halley	12:42:20.00	-38:07:22.1	5139	1986-04-17	+07:14:15		
fr86d148.fit	1P/Halley	12:42:13.45	-38:06:34.6	5139	1986-04-17	+07:16:08		
fr86d149.fit	1P/Halley	12:42:06.91	-38:05:47.1	B	1986-04-17	+07:25:42		
fr86d150.fit	1P/Halley	12:42:06.91	-38:05:47.1	B	1986-04-17	+07:27:05		
fr86d151.fit	1P/Halley	12:42:06.91	-38:05:47.1	I	1986-04-17	+07:30:17		
fr86d152.fit	1P/Halley	12:42:06.91	-38:05:47.1	I	1986-04-17	+07:31:46		
fr86d153.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	I	1986-04-17	+07:59:09		SA 84-334
fr86d154.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	I	1986-04-17	+08:00:39		
fr86d155.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	B	1986-04-17	+08:02:55		
fr86d156.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	B	1986-04-17	+08:04:27		
fr86d157.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	R	1986-04-17	+08:20:36		
fr86d158.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	R	1986-04-17	+08:23:22		
fr86d159.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	V	1986-04-17	+08:25:42		
fr86d160.fit	"SA 84-334"	16:16:51.66	+14:41:47.4	V	1986-04-17	+08:27:18		
fr86d161.fit	DARK				1986-04-17	+08:45:41		
fr86d162.fit	DARK				1986-04-17	+08:46:43		
fr86d163.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	1986-04-17	+09:02:30		IC 4665 27
fr86d164.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	1986-04-17	+09:04:01		
fr86d165.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	1986-04-17	+09:06:16		
fr86d166.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	1986-04-17	+09:08:15		
fr86d167.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	1986-04-17	+09:13:03		
fr86d168.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	1986-04-17	+09:16:54		
fr86d169.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	1986-04-17	+09:21:25		
fr86d170.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	1986-04-17	+09:26:00		
fr86d171.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	1986-04-17	+09:38:29		
fr86d172.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	1986-04-17	+09:40:11		
fr86d173.fit	"Kopff 27"	17:43:55.84	+05:24:48.2	5139	1986-04-17	+09:43:29		
fr86d174.fit	"FLAT FIELD"			R	1986-04-17	+10:33:00		
fr86d175.fit	"FLAT FIELD"			R	1986-04-17	+10:34:13		
fr86d176.fit	"FLAT FIELD"			V	1986-04-17	+10:29:14		
fr86d177.fit	"FLAT FIELD"			V	1986-04-17	+10:31:14		
fr86d178.fit	"FLAT FIELD"			6185	1986-04-17	+10:36:20		
fr86d179.fit	"FLAT FIELD"			6185	1986-04-17	+10:37:33		
fr86d180.fit	"FLAT FIELD"			6250	1986-04-17	+10:40:54		
fr86d181.fit	"FLAT FIELD"			6250	1986-04-17	+10:42:14		
fr86d182.fit	"FLAT FIELD"			6300	1986-04-17	+10:45:25		
fr86d183.fit	"FLAT FIELD"			6300	1986-04-17	+10:47:51		
fr86d184.fit	"FLAT FIELD"			6300TLT	1986-04-17	+10:50:22		
fr86d185.fit	"FLAT FIELD"			6300TLT	1986-04-17	+10:52:44		
fr86d186.fit	"FLAT FIELD"			5139	1986-04-17	+11:03:23		
fr86d187.fit	"FLAT FIELD"			5139	1986-04-17	+11:06:54		
fr86d188.fit	"FLAT FIELD"			4565	1986-04-17	+11:12:22		
fr86d189.fit	"FLAT FIELD"			4565	1986-04-17	+11:14:08		
fr86d190.fit	"FLAT FIELD"			I	1986-04-17	+11:23:27		
fr86d191.fit	"FLAT FIELD"			I	1986-04-17	+11:24:31		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d192.fit	"FLAT FIELD"			B	1986-04-17	+11:27:38		
fr86d193.fit	"FLAT FIELD"			B	1986-04-17	+11:29:01		
fr86d194.fit	DARK				1986-04-17	+11:31:42		
fr86d195.fit	DARK				1986-04-17	+11:38:32		
fr86d196.fit	"FLAT FIELD"			5980	1986-04-18	+03:15:02		
fr86d197.fit	"FLAT FIELD"			5980	1986-04-18	+03:16:07		
fr86d198.fit	"FLAT FIELD"			4060	1986-04-18	+03:20:55		
fr86d199.fit	"FLAT FIELD"			4060	1986-04-18	+03:24:49		
fr86d200.fit	"FLAT FIELD"			9180	1986-04-18	+03:30:52		
fr86d201.fit	"FLAT FIELD"			9180	1986-04-18	+03:31:54		
fr86d202.fit	"FLAT FIELD"			8600	1986-04-18	+03:34:39		
fr86d203.fit	"FLAT FIELD"			8600	1986-04-18	+03:35:39		
fr86d204.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	8600	1986-04-18	+03:46:25		
fr86d205.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	8600	1986-04-18	+03:48:17		
fr86d206.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	9180	1986-04-18	+03:50:24		
fr86d207.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	9180	1986-04-18	+03:52:04		
fr86d208.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	4060	1986-04-18	+03:55:29		
fr86d209.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	4060	1986-04-18	+03:57:32		
fr86d210.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	5980	1986-04-18	+04:00:05		
fr86d211.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	5980	1986-04-18	+04:01:17		
fr86d212.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	5139	1986-04-18	+04:03:42		
fr86d213.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	6250	1986-04-18	+04:07:56		
fr86d214.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	6250	1986-04-18	+04:13:38		
fr86d215.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	6185	1986-04-18	+04:15:51		
fr86d216.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	6185	1986-04-18	+04:17:56		
fr86d217.fit	"BD +8 2015"	08:15:41.54	+07:37:05.2	R	1986-04-18	+04:37:55		
fr86d218.fit	1P/Halley	12:28:55.02	-36:23:54.9	R	1986-04-18	+05:04:29		
fr86d219.fit	1P/Halley	12:28:49.16	-36:23:07.8	R	1986-04-18	+05:12:16		
fr86d220.fit	1P/Halley	12:28:49.16	-36:23:07.8	V	1986-04-18	+05:13:37		
fr86d221.fit	1P/Halley	12:28:49.16	-36:23:07.8	V	1986-04-18	+05:14:48		
fr86d222.fit	1P/Halley	12:28:43.29	-36:22:20.7	6185	1986-04-18	+05:17:13		
fr86d223.fit	1P/Halley	12:28:43.29	-36:22:20.7	6185	1986-04-18	+05:19:15		
fr86d224.fit	1P/Halley	12:28:43.29	-36:22:20.7	6250	1986-04-18	+05:23:42		
fr86d225.fit	1P/Halley	12:28:37.44	-36:21:33.5	6300	1986-04-18	+05:29:18		
fr86d226.fit	1P/Halley	12:28:31.58	-36:20:46.3	6300TLT	1986-04-18	+05:35:36		
fr86d227.fit	1P/Halley	12:28:25.74	-36:19:59.2	9180	1986-04-18	+05:47:09		
fr86d228.fit	1P/Halley	12:28:25.74	-36:19:59.2	8600	1986-04-18	+05:50:43		
fr86d229.fit	1P/Halley	12:28:25.74	-36:19:59.2	8600	1986-04-18	+05:54:13		
fr86d230.fit	1P/Halley	12:28:19.89	-36:19:12.0	9180	1986-04-18	+05:55:55		
fr86d231.fit	1P/Halley	12:28:19.89	-36:19:12.0	5980	1986-04-18	+06:00:18		
fr86d232.fit	1P/Halley	12:28:19.89	-36:19:12.0	5980	1986-04-18	+06:02:20		
fr86d233.fit	1P/Halley	12:28:14.05	-36:18:24.8	5139	1986-04-18	+06:05:37		
fr86d234.fit	1P/Halley	12:28:14.05	-36:18:24.8	5139	1986-04-18	+06:07:25		
fr86d235.fit	1P/Halley	12:28:14.05	-36:18:24.8	4060	1986-04-18	+06:09:23		
fr86d236.fit	DARK				1986-04-18	+06:13:37		
fr86d237.fit	DARK				1986-04-18	+06:14:27		
fr86d238.fit	1P/Halley	12:27:56.57	-36:16:03.1	R	1986-04-18	+06:37:06		
fr86d239.fit	1P/Halley	12:27:56.57	-36:16:03.1	R	1986-04-18	+06:41:49		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E down, rotate 270 CCW)
fr86d240.fit	1P/Halley	12:27:50.75	-36:15:15.8	R	1986-04-18	+06:52:13		
fr86d241.fit	1P/Halley	12:27:44.94	-36:14:28.5	R	1986-04-18	+06:55:44		
fr86d242.fit	1P/Halley	12:27:44.94	-36:14:28.5	R	1986-04-18	+07:00:30		
fr86d243.fit	1P/Halley	12:27:39.13	-36:13:41.2	6185	1986-04-18	+07:06:20		
fr86d244.fit	1P/Halley	12:27:39.13	-36:13:41.2	6185	1986-04-18	+07:13:04		
fr86d245.fit	1P/Halley	12:27:27.53	-36:12:06.6	R	1986-04-18	+07:25:21		
fr86d246.fit	1P/Halley	12:27:27.53	-36:12:06.6	V	1986-04-18	+07:29:10		
fr86d247.fit	1P/Halley	12:27:27.53	-36:12:06.6	V	1986-04-18	+07:31:06		
fr86d248.fit	1P/Halley	12:27:27.53	-36:12:06.6	V	1986-04-18	+07:34:57		
fr86d249.fit	1P/Halley	12:27:21.74	-36:11:19.3	9180	1986-04-18	+07:42:22		
fr86d250.fit	1P/Halley	12:27:15.96	-36:10:32.0	8600	1986-04-18	+07:48:50		
fr86d251.fit	DARK				1986-04-18	+09:24:10		
fr86d252.fit	DARK				1986-04-18	+09:22:26		
fr86d253.fit	"NGC 5033"	13:13:27.47	+36:35:38.2	R	1986-04-18	+10:06:11		rotate 270 CCW invert y
fr86d254.fit	"BS 6629"	17:47:53.56	+02:42:26.2	6185	1986-04-18	+10:33:57		One star assuming correct
fr86d255.fit	"BS 6629"	17:47:53.56	+02:42:26.2	6185	1986-04-18	+10:35:17		
fr86d256.fit	"BS 6629"	17:47:53.56	+02:42:26.2	V	1986-04-18	+10:38:00		
fr86d257.fit	"BS 6629"	17:47:53.56	+02:42:26.2	V	1986-04-18	+10:39:33		
fr86d258.fit	"BS 6629"	17:47:53.56	+02:42:26.2	R	1986-04-18	+10:40:55		
fr86d259.fit	"BS 6629"	17:47:53.56	+02:42:26.2	R	1986-04-18	+10:42:03		
fr86d260.fit	"BS 6629"	17:47:53.56	+02:42:26.2	9180	1986-04-18	+10:53:12		
fr86d261.fit	"BS 6629"	17:47:53.56	+02:42:26.2	9180	1986-04-18	+10:55:32		
fr86d262.fit	"BS 6629"	17:47:53.56	+02:42:26.2	8600	1986-04-18	+10:57:46		
fr86d263.fit	"BS 6629"	17:47:53.56	+02:42:26.2	8600	1986-04-18	+10:59:52		
fr86d264.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	R	1986-04-18	+11:39:39		RA/DEC taken from astrometry, cannot match field with object, frames 264-269
fr86d265.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	R	1986-04-18	+11:45:09		
fr86d266.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	V	1986-04-18	+11:48:59		
fr86d267.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	V	1986-04-18	+11:52:33		
fr86d268.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	R	1986-04-18	+11:56:04		
fr86d269.fit	"SA 84-334"	16:16:49.11	+14:43:50.86	R	1986-04-18	+12:00:13		
fr86d270.fit	"FLAT FIELD"			R	1986-04-18	+12:15:17		
fr86d271.fit	"FLAT FIELD"			R	1986-04-18	+12:16:47		
fr86d272.fit	"FLAT FIELD"			V	1986-04-18	+12:18:11		
fr86d273.fit	"FLAT FIELD"			V	1986-04-18	+12:19:15		
fr86d274.fit	"FLAT FIELD"			V	1986-04-18	+12:20:17		
fr86d275.fit	"FLAT FIELD"			R	1986-04-18	+12:21:27		
fr86d276.fit	"FLAT FIELD"			6185	1986-04-18	+12:22:41		
fr86d277.fit	"FLAT FIELD"			6185	1986-04-18	+12:24:03		
fr86d278.fit	"FLAT FIELD"			6185	1986-04-18	+12:25:26		
fr86d279.fit	"FLAT FIELD"			9180	1986-04-18	+12:31:45		
fr86d280.fit	"FLAT FIELD"			8600	1986-04-18	+12:34:04		
fr86d281.fit	DARK				1986-04-18	+12:36:00		
fr86d282.fit	DARK				1986-04-18	+12:37:16		