

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b001.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/23/86	+12:29:05		SA 84-334
fr86b002.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/23/86	+12:31:42		
fr86b003.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/23/86	+12:33:27		
fr86b004.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	R	02/23/86	+12:39:40		IC 4665 27
fr86b005.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/23/86	+12:47:00		
fr86b006.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/23/86	+12:48:57		
fr86b007.fits	1P/Halley	20:38:43.51	-14:19:00.5	R	02/23/86	+13:00:26		No field stars, assuming 1P/Halley is correct 7-18
fr86b008.fits	1P/Halley	20:38:43.51	-14:19:00.5	R	02/23/86	+13:01:58		
fr86b009.fits	1P/Halley	20:38:43.51	-14:19:00.5	R	02/23/86	+13:03:36		
fr86b010.fits	1P/Halley	20:38:43.51	-14:19:00.5	R	02/23/86	+13:04:57		
fr86b011.fits	1P/Halley	20:38:42.79	-14:19:08.5	V	02/23/86	+13:08:26		
fr86b012.fits	1P/Halley	20:38:42.79	-14:19:08.5	V	02/23/86	+13:09:36		
fr86b013.fits	1P/Halley	20:38:42.79	-14:19:08.5	6300	02/23/86	+13:12:57		
fr86b014.fits	1P/Halley	20:38:42.79	-14:19:08.5	"6300 TLT"	02/23/86	+13:14:57		
fr86b015.fits	1P/Halley	20:38:42.07	-14:19:16.5	"6300 TLT"	02/23/86	+13:16:44		
fr86b016.fits	1P/Halley	20:38:42.07	-14:19:16.5	6300	02/23/86	+13:18:27		
fr86b017.fits	1P/Halley	20:38:42.07	-14:19:16.5	6300	02/23/86	+13:20:21		
fr86b018.fits	1P/Halley	20:38:42.07	-14:19:16.5	"6300 TLT"	02/23/86	+13:22:02		
fr86b019.fits	"FLAT FIELD"			"6300 TLT"	02/23/86	+13:24:17		
fr86b020.fits	"FLAT FIELD"			"6300 TLT"	02/23/86	+13:26:07		
fr86b021.fits	"FLAT FIELD"			6300	02/23/86	+13:27:49		
fr86b022.fits	"FLAT FIELD"			6300	02/23/86	+13:29:06		
fr86b023.fits	DARK				02/23/86	+13:53:34		
fr86b024.fits	DARK				02/23/86	+13:54:44		
fr86b025.fits	"FLAT FIELD"			R	02/24/86	+10:05:32		
fr86b026.fits	"FLAT FIELD"			R	02/24/86	+10:07:12		
fr86b027.fits	"FLAT FIELD"			V	02/24/86	+10:09:54		
fr86b028.fits	"FLAT FIELD"			V	02/24/86	+10:11:01		
fr86b029.fits	"FLAT FIELD"			6250	02/24/86	+10:13:51		
fr86b030.fits	"FLAT FIELD"			6250	02/24/86	+10:15:11		
fr86b031.fits	"FLAT FIELD"			6185	02/24/86	+10:17:43		
fr86b032.fits	"FLAT FIELD"			6185	02/24/86	+10:19:15		
fr86b033.fits	DARK				02/24/86	+10:21:33		
fr86b034.fits	DARK				02/24/86	+10:22:48		
fr86b035.fits	"FLAT FIELD"			6300	02/24/86	+10:25:27		
fr86b036.fits	"FLAT FIELD"			6300	02/24/86	+10:27:34		
fr86b037.fits	"FLAT FIELD"			"6300 TLT"	02/24/86	+10:29:59		
fr86b038.fits	"FLAT FIELD"			"6300 TLT"	02/24/86	+10:32:12		
fr86b039.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/24/86	+11:19:59		SA 84-334
fr86b040.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/24/86	+11:24:18		
fr86b041.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/24/86	+11:31:44		
fr86b042.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/24/86	+11:33:32		
fr86b043.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/24/86	+11:39:50		
fr86b044.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/24/86	+11:42:16		
fr86b045.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/24/86	+11:44:38		
fr86b046.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/24/86	+11:49:17		
fr86b047.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/24/86	+11:53:22		
fr86b048.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/24/86	+11:56:48		
fr86b049.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/24/86	+12:00:25		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b050.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/24/86	+12:03:52		
fr86b051.fits	1P/Halley	20:37:01.64	-14:38:04.3	R	02/24/86	+12:54:42	xName	
fr86b052.fits	1P/Halley	20:37:00.92	-14:38:12.4	R	02/24/86	+12:56:21	xName	
fr86b053.fits	1P/Halley	20:37:00.92	-14:38:12.4	R	02/24/86	+13:00:26	xName	
fr86b054.fits	1P/Halley	20:37:00.92	-14:38:12.4	R	02/24/86	+13:01:30	xName	
fr86b055.fits	1P/Halley	20:37:00.92	-14:38:12.4	V	02/24/86	+13:02:40	xName	
fr86b056.fits	1P/Halley	20:37:00.92	-14:38:12.4	V	02/24/86	+13:03:45	xName	
fr86b057.fits	1P/Halley	20:37:00.20	-14:38:20.5	V	02/24/86	+13:05:13	xName	
fr86b058.fits	1P/Halley	20:37:00.20	-14:38:20.5	6185	02/24/86	+13:06:31	xName	
fr86b059.fits	1P/Halley	20:37:00.20	-14:38:20.5	6185	02/24/86	+13:07:56	xName	
fr86b060.fits	1P/Halley	20:37:00.20	-14:38:20.5	6250	02/24/86	+13:09:43	xName	
fr86b061.fits	1P/Halley	20:37:00.20	-14:38:20.5	6250	02/24/86	+13:12:04	xName	
fr86b062.fits	1P/Halley	20:37:00.20	-14:38:20.5	R	02/24/86	+13:13:49	xName	
fr86b063.fits	1P/Halley	20:37:00.20	-14:38:20.5	R	02/24/86	+13:14:41	xName	
fr86b064.fits	1P/Halley	20:36:59.49	-14:38:28.7	6300	02/24/86	+13:16:03	xName	
fr86b065.fits	1P/Halley	20:36:59.49	-14:38:28.7	"6300 TLT"	02/24/86	+13:17:30	xName	
fr86b066.fits	1P/Halley	20:36:59.49	-14:38:28.7	"6300 TLT"	02/24/86	+13:18:56	xName	
fr86b067.fits	1P/Halley	20:36:59.49	-14:38:28.7	6300	02/24/86	+13:20:17	xName	
fr86b068.fits	DARK				02/24/86	+13:53:00		
fr86b069.fits	DARK				02/24/86	+13:54:25		
fr86b070.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/25/86	+11:06:31		SA 84-334
fr86b071.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/25/86	+11:07:42		
fr86b072.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/25/86	+11:12:57		
fr86b073.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/25/86	+11:14:02		
fr86b074.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/25/86	+11:27:16		
fr86b075.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/25/86	+11:28:28		
fr86b076.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/25/86	+11:32:07		
fr86b077.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/25/86	+11:33:30		
fr86b078.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/25/86	+11:38:15		
fr86b079.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/25/86	+11:41:04		
fr86b080.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/25/86	+11:44:07		
fr86b081.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/25/86	+11:46:59		
fr86b082.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	02/25/86	+11:57:11		
fr86b083.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	02/25/86	+11:58:33		
fr86b084.fits	DARK				02/25/86	+12:00:50		
fr86b085.fits	DARK				02/25/86	+12:01:53		
fr86b086.fits	1P/Halley	20:35:19.19	-14:57:38.9	R	02/25/86	+12:50:41		No field stars, assuming 1P/Halley is correct 86-106
fr86b087.fits	1P/Halley	20:35:19.19	-14:57:38.9	R	02/25/86	+12:51:35		
fr86b088.fits	1P/Halley	20:35:19.19	-14:57:38.9	R	02/25/86	+12:52:51		
fr86b089.fits	1P/Halley	20:35:19.19	-14:57:38.9	V	02/25/86	+12:53:52		
fr86b090.fits	1P/Halley	20:35:19.19	-14:57:38.9	V	02/25/86	+12:54:49		
fr86b091.fits	1P/Halley	20:35:18.47	-14:57:47.2	V	02/25/86	+12:55:41		
fr86b092.fits	1P/Halley	20:35:18.47	-14:57:47.2	V	02/25/86	+12:56:49		
fr86b093.fits	1P/Halley	20:35:18.47	-14:57:47.2	6185	02/25/86	+12:58:00		
fr86b094.fits	1P/Halley	20:35:18.47	-14:57:47.2	6185	02/25/86	+12:59:14		
fr86b095.fits	1P/Halley	20:35:18.47	-14:57:47.2	6185	02/25/86	+13:00:35		
fr86b096.fits	1P/Halley	20:35:18.47	-14:57:47.2	6250	02/25/86	+13:01:51		
fr86b097.fits	1P/Halley	20:35:18.47	-14:57:47.2	6250	02/25/86	+13:03:16		
fr86b098.fits	1P/Halley	20:35:17.75	-14:57:55.5	R	02/25/86	+13:05:24		
fr86b099.fits	1P/Halley	20:35:17.75	-14:57:55.5	R	02/25/86	+13:06:31		

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fr86b100.fits	1P/Halley	20:35:17.75	-14:57:55.5	R	02/25/86	+13:07:36		
fr86b101.fits	1P/Halley	20:35:17.75	-14:57:55.5	V	02/25/86	+13:08:36		
fr86b102.fits	1P/Halley	20:35:17.75	-14:57:55.5	6300	02/25/86	+13:10:23		
fr86b103.fits	1P/Halley	20:35:17.75	-14:57:55.5	"6300 TLT"	02/25/86	+13:12:01		
fr86b104.fits	1P/Halley	20:35:17.75	-14:57:55.5	"6300 TLT"	02/25/86	+13:13:32		
fr86b105.fits	1P/Halley	20:35:17.75	-14:57:55.5	6300	02/25/86	+13:14:33		
fr86b106.fits	1P/Halley	20:35:17.04	-14:57:03.8	4565	02/25/86	+13:16:05		
fr86b107.fits	"M 42"	05:35:16.48	-05:23:22.8	R	02/26/86	+03:24:26		rotate 270 CCW, invert y, N left E down, wide field
fr86b108.fits	"M 42"	05:35:16.48	-05:23:22.8	R	02/26/86	+03:27:07		rotate 270 CCW, invert y, N left E down, wide field
fr86b109.fits	"M 42"	05:35:16.48	-05:23:22.8	R	02/26/86	+03:29:31		rotate 270 CCW, invert y, N left E down, wide field
fr86b110.fits	"M 42"	05:35:16.48	-05:23:22.8	6185	02/26/86	+03:39:31		rotate 270 CCW, invert y, N left E down, wide field
fr86b111.fits	"M 42"	05:35:16.48	-05:23:22.8	6185	02/26/86	+03:42:25		rotate 270 CCW, invert y, N left E down, wide field
fr86b112.fits	Horsehead Nebula	05:40:58.99	-02:27:29.9	R	02/26/86	+04:04:37		rotate 270 CCW, invert y, N left E down, wide field
fr86b113.fits	Rosette Nebula	06:31:59.49	+04:52:08.8	R	02/26/86	+04:27:05		rotate 270 CCW, invert y, N left E down, wide field, RA/DEC from astrometry
fr86b114.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/26/86	+11:09:46		wide field of 5.14 arcsec/pixel, rotated 270 CCW invert y (astrometry)
fr86b115.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/26/86	+11:13:32		
fr86b116.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/26/86	+11:18:43		
fr86b117.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/26/86	+11:23:24		
fr86b118.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/26/86	+11:26:40		
fr86b119.fits	"BS 6629"	17:47:53.56	+02:42:26.2	V	02/26/86	+11:44:34		One star assuming correct
fr86b120.fits	"BS 6629"	17:47:53.56	+02:42:26.2	V	02/26/86	+11:45:57		One star assuming correct
fr86b121.fits	"BS 6629"	17:47:53.56	+02:42:26.2	6185	02/26/86	+11:51:21		One star assuming correct
fr86b122.fits	"BS 6629"	17:47:53.56	+02:42:26.2	6185	02/26/86	+11:53:01		One star assuming correct
fr86b123.fits	"BS 6629"	17:47:53.56	+02:42:26.2	6250	02/26/86	+11:55:06		One star assuming correct
fr86b124.fits	"BS 6629"	17:47:53.56	+02:42:26.2	6250	02/26/86	+11:56:29		One star assuming correct
fr86b125.fits	DARK				02/26/86	+12:41:20		
fr86b126.fits	DARK				02/26/86	+12:42:23		
fr86b127.fits	1P/Halley	20:33:37.42	-15:17:29.6	R	02/26/86	+12:43:35		5.17 arsec/pixel, invert y
fr86b128.fits	1P/Halley	20:33:36.71	-15:17:38.1	R	02/26/86	+12:49:17		5.17 arsec/pixel, invert y
fr86b129.fits								fully saturated
fr86b130.fits	1P/Halley	20:33:35.99	-15:17:46.5	R	02/26/86	+13:01:21		5.17 arsec/pixel, invert y
fr86b131.fits	"FLAT FIELD"			R	02/26/86	+13:18:08		
fr86b132.fits	"FLAT FIELD"			R	02/26/86	+13:19:37		
fr86b133.fits	"FLAT FIELD"			R	02/26/86	+13:21:32		
fr86b134.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/27/86	+10:28:33		SA 84-334, no inversion
fr86b135.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/27/86	+10:54:43		
fr86b136.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/27/86	+10:57:49		
fr86b137.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/27/86	+11:00:29		
fr86b138.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/27/86	+11:02:15		
fr86b139.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/27/86	+11:12:40		
fr86b140.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/27/86	+11:15:33		
fr86b141.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/27/86	+11:17:13		
fr86b142.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/27/86	+11:19:36		
fr86b143.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/27/86	+11:21:32		
fr86b144.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/27/86	+11:33:46		
fr86b145.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/27/86	+11:37:35		
fr86b146.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	02/27/86	+11:41:52		
fr86b147.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	02/27/86	+11:45:34		
fr86b148.fits	DARK				02/27/86	+12:32:03		

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fr86b149.fits	DARK				02/27/86	+12:33:58		
fr86b150.fits	1P/Halley	20:31:54.72	-15:37:54.9	R	02/27/86	+12:44:43		Think this is wide field 150-164
fr86b151.fits	1P/Halley	20:31:54.00	-15:38:03.6	V	02/27/86	+12:46:56		
fr86b152.fits	1P/Halley	20:31:54.00	-15:38:03.6	V	02/27/86	+12:49:29		
fr86b153.fits	1P/Halley	20:31:54.00	-15:38:03.6	R	02/27/86	+12:51:08		
fr86b154.fits	1P/Halley	20:31:54.00	-15:38:03.6	6185	02/27/86	+12:53:30		
fr86b155.fits	1P/Halley	20:31:53.28	-15:38:12.3	6185	02/27/86	+12:55:57		
fr86b156.fits	1P/Halley	20:31:53.28	-15:38:12.3	6185	02/27/86	+12:57:28		
fr86b157.fits	1P/Halley	20:31:53.28	-15:38:12.3	6250	02/27/86	+12:59:57		
fr86b158.fits	1P/Halley	20:31:53.28	-15:38:12.3	6250	02/27/86	+13:01:39		
fr86b159.fits	1P/Halley	20:31:52.56	-15:38:20.9	6300	02/27/86	+13:06:55		
fr86b160.fits	1P/Halley	20:31:52.56	-15:38:20.9	6300	02/27/86	+13:08:34		
fr86b161.fits	1P/Halley	20:31:52.56	-15:38:20.9	6300TLT	02/27/86	+13:10:55		
fr86b162.fits	1P/Halley	20:31:52.56	-15:38:20.9	6300TLT	02/27/86	+13:13:19		
fr86b163.fits	1P/Halley	20:31:51.84	-15:38:29.6	6300TLT	02/27/86	+13:15:36		
fr86b164.fits	1P/Halley	20:31:51.84	-15:38:29.6	6300	02/27/86	+13:17:04		
fr86b165.fits	"FLAT FIELD"			6300	02/27/86	+13:38:23		
fr86b166.fits	"FLAT FIELD"			6300	02/27/86	+13:40:55		
fr86b167.fits	"FLAT FIELD"			6300TLT	02/27/86	+13:43:30		
fr86b168.fits	"FLAT FIELD"			6300TLT	02/27/86	+13:48:43		
fr86b169.fits	"FLAT FIELD"			6250	02/27/86	+13:55:18		
fr86b170.fits	"FLAT FIELD"			6250	02/27/86	+13:56:47		
fr86b171.fits	"FLAT FIELD"			6185	02/27/86	+13:58:17		
fr86b172.fits	"FLAT FIELD"			6185	02/27/86	+13:59:45		
fr86b173.fits	"FLAT FIELD"			V	02/27/86	+14:04:48		
fr86b174.fits	"FLAT FIELD"			V	02/27/86	+14:05:49		
fr86b175.fits	"FLAT FIELD"			R	02/27/86	+14:10:22		
fr86b176.fits	"FLAT FIELD"			R	02/27/86	+14:11:30		
fr86b177.fits	"Hubble's Nebula"	06:39:10.08	+08:45:00.0	6185	02/28/86	+03:52:55		
fr86b178.fits	"Hubble's Nebula"	06:39:10.08	+08:45:00.0	6185	02/28/86	+03:57:00		
fr86b179.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	6185	02/28/86	+04:00:01		
fr86b180.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	6250	02/28/86	+04:06:49		
fr86b181.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	6250	02/28/86	+04:12:14		
fr86b182.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	8600	02/28/86	+04:52:28	xTime	04:43:01
fr86b183.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	8600	02/28/86	+04:55:27		
fr86b184.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	9160	02/28/86	+05:06:03		
fr86b185.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	9160	02/28/86	+05:08:46		
fr86b186.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	4565	02/28/86	+05:19:13		
fr86b187.fits	"Hubble's Nebula"	06:39:10.08	+08:45:0000	4565	02/28/86	+05:24:26		
fr86b188.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	4565	02/28/86	+05:57:06		
fr86b189.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	4565	02/28/86	+05:58:36		
fr86b190.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	6185	02/28/86	+06:06:47		
fr86b191.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	6185	02/28/86	+06:08:19		
fr86b192.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	6250	02/28/86	+06:10:28		
fr86b193.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	6250	02/28/86	+06:12:03		
fr86b194.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	8600	02/28/86	+06:19:43		
fr86b195.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	8600	02/28/86	+06:21:20		
fr86b196.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	9160	02/28/86	+06:25:53		
fr86b197.fits	"BD +8 2015"	08:15:41.54	+07:37:05.2	9160	02/28/86	+06:27:17		
fr86b198.fits	DARK				02/28/86	+07:23:16		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b199.fits	DARK				02/28/86	+07:24:55		
fr86b200.fits	"FLAT FIELD"			9160	02/28/86	+08:37:10		
fr86b201.fits	"FLAT FIELD"			9160	02/28/86	+08:39:28		
fr86b202.fits	"FLAT FIELD"			8600	02/28/86	+08:41:12		
fr86b203.fits	"FLAT FIELD"			8600	02/28/86	+08:42:41		
fr86b204.fits	"FLAT FIELD"			4565	02/28/86	+08:51:49		
fr86b205.fits	"FLAT FIELD"			4565	02/28/86	+08:53:49		
fr86b206.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/28/86	+09:16:12		SA 84-334
fr86b207.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/28/86	+09:18:43		
fr86b208.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/28/86	+09:21:05		
fr86b209.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/28/86	+09:24:15		
fr86b210.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/28/86	+11:37:41		
fr86b211.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	02/28/86	+11:39:09		
fr86b212.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/28/86	+11:40:36		
fr86b213.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	02/28/86	+11:43:32		
fr86b214.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/28/86	+11:49:31		
fr86b215.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	02/28/86	+11:51:47		
fr86b216.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/28/86	+11:53:39		
fr86b217.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	02/28/86	+11:55:17		
fr86b218.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/28/86	+11:58:37		
fr86b219.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	02/28/86	+12:01:49		
fr86b220.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/28/86	+12:05:15		
fr86b221.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	"6300 TLT"	02/28/86	+12:08:24		
fr86b222.fits	1P/Halley	20:30:11.58	-15:58:48.7	R	02/28/86	+12:35:39		No field stars, assuming 1P/Halley is correct 222-243
fr86b223.fits	1P/Halley	20:30:11.58	-15:58:48.7	R	02/28/86	+12:39:11		
fr86b224.fits	1P/Halley	20:30:11.58	-15:58:48.7	R	02/28/86	+12:41:40		
fr86b225.fits	1P/Halley	20:30:11.58	-15:58:48.7	R	02/28/86	+12:43:42		
fr86b226.fits	1P/Halley	20:30:11.58	-15:58:48.7	V	02/28/86	+12:44:43		
fr86b227.fits	1P/Halley	20:30:10.85	-15:58:57.5	V	02/28/86	+12:45:40		
fr86b228.fits	1P/Halley	20:30:10.85	-15:58:57.5	V	02/28/86	+12:46:35		
fr86b229.fits	1P/Halley	20:30:10.85	-15:58:57.5	6185	02/28/86	+12:47:33		
fr86b230.fits	1P/Halley	20:30:10.85	-15:58:57.5	6185	02/28/86	+12:48:47		
fr86b231.fits	1P/Halley	20:30:10.85	-15:58:57.5	6185	02/28/86	+12:49:48		
fr86b232.fits	1P/Halley	20:30:10.85	-15:58:57.5	6250	02/28/86	+12:51:26		
fr86b233.fits	1P/Halley	20:30:10.85	-15:58:57.5	6250	02/28/86	+12:52:21		
fr86b234.fits	1P/Halley	20:30:10.85	-15:58:57.5	6250	02/28/86	+12:53:38		
fr86b235.fits	1P/Halley	20:30:10.13	-15:59:06.4	R	02/28/86	+12:55:59		
fr86b236.fits	1P/Halley	20:30:10.13	-15:59:06.4	R	02/28/86	+12:57:02		
fr86b237.fits	1P/Halley	20:30:10.13	-15:59:06.4	R	02/28/86	+12:57:58		
fr86b238.fits	1P/Halley	20:30:10.13	-15:59:06.4	6300	02/28/86	+12:59:45		
fr86b239.fits	1P/Halley	20:30:10.13	-15:59:06.4	"6300 TLT"	02/28/86	+13:01:07		
fr86b240.fits	1P/Halley	20:30:10.13	-15:59:06.4	"6300 TLT"	02/28/86	+13:02:35		
fr86b241.fits	1P/Halley	20:30:09.40	-15:59:15.3	6300	02/28/86	+13:05:58		
fr86b242.fits	1P/Halley	20:30:09.40	-15:59:15.3	8600	02/28/86	+13:14:04		was overwritten then taken again after 243
fr86b243.fits	1P/Halley	20:30:09.40	-15:59:15.3	9180	02/28/86	+13:11:08		
fr86b244.fits	"DARK FRAME"				02/28/86	+13:56:34		
fr86b245.fits	"DARK FRAME"				02/28/86	+13:57:30		
fr86b246.fits	XENON				03/01/86	+05:01:58		
fr86b247.fits	XENON				03/01/86	+05:04:01		
fr86b248.fits	HELIUM				03/01/86	+05:10:40		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b249.fits	HELIUM				03/01/86	+05:12:24		
fr86b250.fits	BS 5511	14:46:14.93	+01:53:34.4		03/01/86	+10:57:08		BS 5511
fr86b251.fits	BS 5511	14:46:14.93	+01:53:34.4		03/01/86	+11:00:36		
fr86b252.fits	BS 5511	14:46:14.93	+01:53:34.4		03/01/86	+11:01:45		
fr86b253.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:21:58		
fr86b254.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:23:51		
fr86b255.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:26:45		
fr86b256.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:28:46		
fr86b257.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:31:11		
fr86b258.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:36:09		
fr86b259.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:40:15		
fr86b260.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:42:36		
fr86b261.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:45:57		
fr86b262.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:51:29		
fr86b263.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:52:43		
fr86b264.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/01/86	+11:59:10		
fr86b265-274								Logs written
fr86b275.fits	1P/Halley	20:28:25.56	-16:20:40.4		03/01/86	+13:06:51		
fr86b276.fits	1P/Halley	20:28:25.56	-16:20:40.4		03/01/86	+13:08:51		
fr86b277.fits	1P/Halley	20:28:25.56	-16:20:40.4		03/01/86	+13:10:25		
fr86b278.fits	1P/Halley	20:28:25.56	-16:20:40.4		03/01/86	+13:11:49		
fr86b279.fits	1P/Halley	20:28:25.56	-16:20:40.4		03/01/86	+13:13:16		
fr86b280.fits	1P/Halley	20:28:24.83	-16:20:49.5		03/01/86	+13:15:18		
fr86b281.fits	1P/Halley	20:26:43.72	-16:42:01.4		03/02/86	+12:29:31		
fr86b282.fits	1P/Halley	20:26:43.72	-16:42:01.4		03/02/86	+12:31:05		
fr86b283.fits	1P/Halley	20:26:43.72	-16:42:01.4		03/02/86	+12:33:21		
fr86b284.fits	1P/Halley	20:26:42.98	-16:42:10.7		03/02/86	+12:37:16		
fr86b285.fits	1P/Halley	20:26:42.98	-16:42:10.7		03/02/86	+12:41:07		
fr86b286.fits	1P/Halley	20:26:42.24	-16:42:20.1		03/02/86	+12:48:48		
fr86b287.fits	1P/Halley	20:26:41.50	-16:42:29.5		03/02/86	+12:57:23		
fr86b288.fits	1P/Halley	20:26:41.50	-16:42:29.5		03/02/86	+13:00:54		
fr86b289.fits	1P/Halley	20:26:41.50	-16:42:29.5		03/02/86	+13:04:19		
fr86b290.fits	1P/Halley	20:26:40.76	-16:42:38.8		03/02/86	+13:07:15		
fr86b291.fits	1P/Halley	20:26:40.76	-16:42:38.8		03/02/86	+13:08:35		
fr86b292.fits	"FLAT FIELD"				03/02/86	+13:48:31		
fr86b293.fits	"FLAT FIELD"				03/02/86	+13:49:56		
fr86b294.fits	"FLAT FIELD"				03/02/86	+13:51:09		
fr86b295.fits	"FLAT FIELD"				03/02/86	+13:52:20		
fr86b296.fits	"FLAT FIELD"				03/02/86	+13:59:27		
fr86b297.fits	"FLAT FIELD"				03/02/86	+13:58:14		
fr86b298.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/03/86	+12:15:31		
fr86b299.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/03/86	+12:19:14		
fr86b300.fits	1P/Halley	20:24:57.71	-17:04:34.8		03/03/86	+12:29:54		
fr86b301.fits	1P/Halley	20:24:57.71	-17:04:34.8		03/03/86	+12:34:40		
fr86b302.fits	1P/Halley	20:24:56.96	-17:04:44.4		03/03/86	+12:36:42		
fr86b303.fits	1P/Halley	20:24:56.96	-17:04:44.4		03/03/86	+12:40:39		
fr86b304.fits	1P/Halley	20:24:56.21	-17:04:54.0		03/03/86	+12:50:05		
fr86b305.fits	1P/Halley	20:24:56.21	-17:04:54.0		03/03/86	+12:53:31		
fr86b306.fits	"FLAT FIELD"				03/03/86	+13:16:09		
fr86b307.fits	"FLAT FIELD"				03/03/86	+13:17:44		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b308.fits	"FLAT FIELD"				03/03/86	+13:19:14		
fr86b309.fits	"FLAT FIELD"				03/03/86	+13:20:16		
fr86b310.fits	DARK				03/03/86	+13:22:08		
fr86b311.fits	DARK				03/03/86	+13:23:09		
fr86b312.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/04/86	+11:22:28		
fr86b313.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/04/86	+11:25:15		
fr86b314.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/04/86	+11:26:18		
fr86b315.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/04/86	+11:28:26		
fr86b316.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/04/86	+11:33:03		
fr86b317.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/04/86	+11:44:28		
fr86b318.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/04/86	+11:45:44		
fr86b319.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/04/86	+11:48:31		
fr86b320.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/04/86	+11:49:50		
fr86b321.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:01:39		
fr86b322.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:02:47		
fr86b323.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:05:40		
fr86b324.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:06:42		
fr86b325.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:07:49		
fr86b326.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:10:37		
fr86b327.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/04/86	+12:11:51		
fr86b328.fits	SKY				03/04/86	+12:13:25		
fr86b329.fits	1P/Halley	20:23:09.36	-17:27:57.1		03/04/86	+12:36:13		
fr86b330.fits	1P/Halley	20:23:09.36	-17:27:57.1		03/04/86	+12:42:44		
fr86b331.fits	1P/Halley	20:23:08.60	-17:28:07.0		03/04/86	+12:48:57		
fr86b332.fits	1P/Halley	20:23:07.84	-17:28:16.9		03/04/86	+13:02:47		
fr86b333.fits	1P/Halley	20:23:07.08	-17:28:26.8		03/04/86	+13:06:16		
fr86b334.fits	1P/Halley	20:23:07.08	-17:28:26.8		03/04/86	+13:07:25		
fr86b335.fits	SKY				03/04/86	+13:27:37		
fr86b336.fits	SKY				03/04/86	+13:26:03		
fr86b337.fits	"FLAT FIELD"				03/04/86	+13:33:00		
fr86b338.fits	"FLAT FIELD"				03/04/86	+13:34:34		
fr86b339.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+02:52:47		In index as MRK 376
fr86b340.fits								Didn't write file, log written
fr86b341.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+03:11:59		
fr86b342.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+03:25:25		
fr86b343.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+03:43:07		
fr86b344.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+04:01:59		
fr86b345.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+04:18:53		
fr86b346.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+04:36:16		
fr86b347.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+05:01:53		
fr86b348.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+05:06:15		
fr86b349.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+05:04:40		
fr86b350.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+05:07:33		
fr86b351.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+05:08:47		
fr86b352.fits	"MKN 376"	07:14:15.07	+45:41:55.8		03/05/86	+05:30:41		
fr86b353.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+06:48:01		
fr86b354.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+06:49:20		
fr86b355.fits	"SAO 41579"	07:08:06.31	+44:02:23.9		03/05/86	+06:50:26		
fr86b356.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+08:17:46		
fr86b357.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+08:19:31		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b358.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+08:24:54		
fr86b359.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+08:25:53		
fr86b360.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+08:53:10		
fr86b361.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:01:32		
fr86b362.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:08:03		
fr86b363.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:15:16		
fr86b364.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:23:34		
fr86b365.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:38:07		
fr86b366.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:44:32		
fr86b367.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:51:00		
fr86b368.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+09:57:41		
fr86b369.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+10:03:40		
fr86b370.fits	"NGC 5548"	14:17:59.53	+25:08:12.4		03/05/86	+10:09:54		
fr86b371.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+10:20:43		
fr86b372.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+10:23:16		
fr86b373.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+10:24:15		
fr86b374.fits	"SAO 120251"	14:02:31.85	+09:41:09.9		03/05/86	+10:26:11		
fr86b375.fits	"BS 5511"	14:46:14.93	+01:53:34.4		03/05/86	+10:40:48		
fr86b376.fits	"BS 5511"	14:46:14.93	+01:53:34.4		03/05/86	+10:42:18		
fr86b377.fits	"BS 5511"	14:46:14.93	+01:53:34.4		03/05/86	+10:44:41		
fr86b378.fits	"BS 5511"	14:46:14.93	+01:53:34.4		03/05/86	+10:45:38		
fr86b379.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/05/86	+11:04:48		
fr86b380.fits	"BS 6629"	17:47:53.56	+02:42:26.2		03/05/86	+11:07:17		
fr86b381.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/05/86	+11:20:19		
fr86b382.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/05/86	+11:21:46		
fr86b383.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/05/86	+11:24:21		
fr86b384.fits	"SKY ADJ TO CMP"				03/05/86	+11:26:48		adj to BS 6998
fr86b385.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/05/86	+11:40:49		
fr86b386.fits	"BS 6998"	18:38:53.40	-21:03:06.7		03/05/86	+11:41:53		
fr86b387.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/05/86	+11:52:05		
fr86b388.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/05/86	+11:55:11		
fr86b389.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/05/86	+11:58:06		
fr86b390.fits	"BS 7637"	19:59:47.34	-09:57:29.7		03/05/86	+11:59:15		
fr86b391.fits	"ADJ SKY"				03/05/86	+12:00:44		
fr86b392.fits	1P/Halley	20:21:21.39	-17:51:31.8		03/05/86	+12:17:13		
fr86b393.fits	1P/Halley	20:21:20.61	-17:51:42.0		03/05/86	+12:29:19		
fr86b394.fits	1P/Halley	20:21:19.83	-17:51:52.2		03/05/86	+12:41:31		
fr86b395.fits	1P/Halley	20:21:19.06	-17:52:02.4		03/05/86	+12:48:32		
fr86b396.fits	1P/Halley	20:21:19.06	-17:52:02.4		03/05/86	+12:53:20		
fr86b397.fits	1P/Halley	20:21:18.28	-17:52:12.6		03/05/86	+12:57:06		
fr86b398.fits	1P/Halley	20:21:18.28	-17:52:12.6		03/05/86	+12:58:40		
fr86b399.fits	1P/Halley	20:21:18.28	-17:52:12.6		03/05/86	+13:00:11		
fr86b400.fits	1P/Halley	20:21:18.28	-17:52:12.6		03/05/86	+13:01:40		
fr86b401.fits	"FLAT FIELD"				03/05/86	+13:16:41		
fr86b402.fits	"FLAT FIELD"				03/05/86	+13:17:42		
fr86b403.fits	"FLAT FIELD"				03/05/86	+13:25:15		
fr86b404.fits	"FLAT FIELD"				03/05/86	+13:26:21		
fr86b405.fits	"FLAT FIELD"				03/05/86	+13:27:26		
fr86b406.fits	"FLAT FIELD"				03/05/86	+13:28:32		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b407.fits	M 42	05:35:16.48	-05:23:22.8	R	03/06/86	+03:06:44		rotate 90 CCW, invert x, N left E down, wide field, trapezium
fr86b408.fits	M 42	05:35:16.48	-05:23:22.8	6185	03/06/86	+03:12:37		rotate 90 CCW, invert x, N left E down, wide field, trapezium
fr86b409.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:00.0	B	03/06/86	+03:47:26		
fr86b410.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:00.0	B	03/06/86	+03:49:56		
fr86b411.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	B	03/06/86	+03:52:08		
fr86b412.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	V	03/06/86	+04:07:59		
fr86b413.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	V	03/06/86	+04:09:46		
fr86b414.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	V	03/06/86	+04:11:09		
fr86b415.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	R	03/06/86	+04:13:44		
fr86b416.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	R	03/06/86	+04:16:16		
fr86b417.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	R	03/06/86	+04:17:35		
fr86b418.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	R	03/06/86	+04:19:22		
fr86b419.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	I	03/06/86	+04:26:14		
fr86b420.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	I	03/06/86	+04:30:35		
fr86b421.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	I	03/06/86	+04:32:11		
fr86b422.fits	"Hubble's NebulaULA"	06:39:10.08	+08:45:0000	I	03/06/86	+04:35:09		
fr86b423.fits	DARK				03/06/86	+04:39:43		
fr86b424.fits	DARK				03/06/86	+04:40:57		
fr86b425.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	I	03/06/86	+05:22:05		
fr86b426.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	I	03/06/86	+05:23:31		
fr86b427.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	B	03/06/86	+05:28:46		
fr86b428.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	B	03/06/86	+05:32:37		
fr86b429.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	V	03/06/86	+05:37:11		
fr86b430.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	V	03/06/86	+05:38:27		
fr86b431.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	R	03/06/86	+05:40:09		
fr86b432.fits	"SA 76-281"	08:21:06.00	+14:44:13.2	R	03/06/86	+05:41:24		
fr86b433.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/06/86	+11:10:08		
fr86b434.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/06/86	+11:12:19		
fr86b435.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/06/86	+11:13:39		
fr86b436.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/06/86	+11:30:34		
fr86b437.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/06/86	+11:32:21		
fr86b438.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/06/86	+11:34:05		
fr86b439.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/06/86	+11:35:01		
fr86b440.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/06/86	+11:40:55		
fr86b441.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/06/86	+11:44:02		
fr86b442.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/06/86	+11:45:20		
fr86b443.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/06/86	+11:46:57		
fr86b444.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/06/86	+11:48:33		
fr86b445.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/06/86	+11:51:58		
fr86b446.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/06/86	+11:54:32		
fr86b447.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/06/86	+11:57:21		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b448.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/06/86	+11:59:59		
fr86b449.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	03/06/86	+12:03:42		
fr86b450.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	03/06/86	+12:05:11		
fr86b451.fits	1P/Halley	20:19:29.56	-18:16:12.3	V	03/06/86	+12:19:52		
fr86b452.fits	1P/Halley	20:19:29.56	-18:16:12.3	V	03/06/86	+12:21:41		
fr86b453.fits	1P/Halley	20:19:29.56	-18:16:12.3	R	03/06/86	+12:24:57		
fr86b454.fits	1P/Halley	20:19:28.77	-18:16:22.9	R	03/06/86	+12:26:25		
fr86b455.fits	1P/Halley	20:19:28.77	-18:16:22.9	R	03/06/86	+12:28:01		
fr86b456.fits	1P/Halley	20:19:28.77	-18:16:22.9	6185	03/06/86	+12:29:38		
fr86b457.fits	1P/Halley	20:19:28.77	-18:16:22.9	6185	03/06/86	+12:31:22		
fr86b458.fits	1P/Halley	20:19:28.77	-18:16:22.9	6185	03/06/86	+12:33:09		
fr86b459.fits	1P/Halley	20:19:27.97	-18:16:33.4	6250	03/06/86	+12:35:26		
fr86b460.fits	1P/Halley	20:19:27.97	-18:16:33.4	6250	03/06/86	+12:37:27		
fr86b461.fits	1P/Halley	20:19:27.97	-18:16:33.4	4565	03/06/86	+12:42:40		
fr86b462.fits	1P/Halley	20:19:27.97	-18:16:33.4	4565	03/06/86	+12:44:45		
fr86b463.fits	1P/Halley	20:19:27.18	-18:16:43.9	6300	03/06/86	+12:48:44		
fr86b464.fits	1P/Halley	20:19:27.18	-18:16:43.9	6300	03/06/86	+12:51:12		
fr86b465.fits	1P/Halley	20:19:27.18	-18:16:43.9	6300TLT	03/06/86	+12:54:55		
fr86b466.fits	1P/Halley	20:19:26.48	-18:16:54.5	6300TLT	03/06/86	+12:58:15		
fr86b467.fits	DARK				03/06/86	+13:05:24		
fr86b468.fits	DARK				03/06/86	+13:06:39		
fr86b469.fits	"FLAT FIELD"			6300TLT	03/06/86	+13:44:01		
fr86b470.fits	"FLAT FIELD"			6300TLT	03/06/86	+13:46:16		
fr86b471.fits	"FLAT FIELD"			6300	03/06/86	+13:48:19		
fr86b472.fits	"FLAT FIELD"			6300	03/06/86	+13:50:20		
fr86b473.fits	"FLAT FIELD"			4565	03/06/86	+13:53:11		
fr86b474.fits	"FLAT FIELD"			4565	03/06/86	+13:55:30		
fr86b475.fits	"FLAT FIELD"			6250	03/06/86	+14:01:24		
fr86b476.fits	"FLAT FIELD"			6250	03/06/86	+14:02:32		
fr86b477.fits	"FLAT FIELD"			6185	03/06/86	+14:05:05		
fr86b478.fits	"FLAT FIELD"			6185	03/06/86	+14:06:10		
fr86b479.fits	"FLAT FIELD"			V	03/06/86	+14:08:39		
fr86b480.fits	"FLAT FIELD"			V	03/06/86	+14:09:32		
fr86b481.fits	"FLAT FIELD"			R	03/06/86	+14:13:23		
fr86b482.fits	"FLAT FIELD"			R	03/06/86	+14:14:16		
fr86b483.fits	"FLAT FIELD"			B	03/06/86	+14:31:24		
fr86b484.fits	"FLAT FIELD"			B	03/06/86	+14:32:27		
fr86b485.fits	"FLAT FIELD"			I	03/06/86	+14:34:42		
fr86b486.fits	"FLAT FIELD"			I	03/06/86	+14:35:40		
fr86b487.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/07/86	+09:45:26		
fr86b488.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/07/86	+09:59:47		
fr86b489.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/07/86	+10:03:28		
fr86b490.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/07/86	+10:06:15		
fr86b491.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/07/86	+10:12:00		
fr86b492.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/07/86	+10:14:30		
fr86b493.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/07/86	+10:20:08		
fr86b494.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/07/86	+11:20:34		
fr86b495.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/07/86	+11:23:25		
fr86b496.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/07/86	+11:25:58		
fr86b497.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/07/86	+11:27:24		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b498.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/07/86	+11:29:08		
fr86b499.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/07/86	+11:34:07		
fr86b500.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/07/86	+11:37:51		
fr86b501.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/07/86	+11:41:42		
fr86b502.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/07/86	+11:45:24		
fr86b503.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	03/07/86	+11:52:07		
fr86b504.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	4565	03/07/86	+11:53:55		
fr86b505.fits	1P/Halley	20:17:34.98	-18:41:42.9	R	03/07/86	+12:20:13		
fr86b506.fits	1P/Halley	20:17:34.98	-18:41:42.9	R	03/07/86	+12:21:26		
fr86b507.fits	1P/Halley	20:17:34.98	-18:41:42.9	R	03/07/86	+12:23:40		
fr86b508.fits	1P/Halley	20:17:34.16	-18:41:53.7	V	03/07/86	+12:25:09		
fr86b509.fits	1P/Halley	20:17:34.16	-18:41:53.7	V	03/07/86	+12:26:24		
fr86b510.fits	1P/Halley	20:17:34.16	-18:41:53.7	V	03/07/86	+12:27:45		
fr86b511.fits	1P/Halley	20:17:34.16	-18:41:53.7	6185	03/07/86	+12:29:45		
fr86b512.fits	1P/Halley	20:17:34.16	-18:41:53.7	6185	03/07/86	+12:31:10		
fr86b513.fits	1P/Halley	20:17:34.16	-18:41:53.7	6185	03/07/86	+12:32:43		
fr86b514.fits	1P/Halley	20:17:34.16	-18:41:53.7	6185	03/07/86	+12:34:42		
fr86b515.fits	1P/Halley	20:17:33.35	-18:42:04.6	6250	03/07/86	+12:37:39		
fr86b516.fits	1P/Halley	20:17:33.35	-18:42:04.6	6250	03/07/86	+12:39:40		
fr86b517.fits	1P/Halley	20:17:32.53	-18:42:15.5	4565	03/07/86	+12:46:44		
fr86b518.fits	1P/Halley	20:17:32.53	-18:42:15.5	4565	03/07/86	+12:48:26		
fr86b519.fits	1P/Halley	20:17:32.53	-18:42:15.5	4565	03/07/86	+12:49:46		
fr86b520.fits	1P/Halley	20:17:32.53	-18:42:15.5	6300	03/07/86	+12:53:08		
fr86b521.fits	1P/Halley	20:17:31.71	-18:42:26.4	6300	03/07/86	+12:55:04		
fr86b522.fits	1P/Halley	20:17:31.71	-18:42:26.4	6300TLT	03/07/86	+12:58:37		
fr86b523.fits	1P/Halley	20:17:31.71	-18:42:26.4	6300TLT	03/07/86	+13:02:21		
fr86b524.fits	1P/Halley	20:17:30.89	-18:42:37.3	6300TLT	03/07/86	+13:09:44		
fr86b525.fits	1P/Halley	20:17:30.89	-18:42:37.3	6300TLT	03/07/86	+13:11:18		
fr86b526.fits	1P/Halley	20:17:30.89	-18:42:37.3	6300	03/07/86	+13:12:48		
fr86b527.fits	DARK				03/07/86	+13:30:52		
fr86b528.fits	DARK				03/07/86	+13:32:36		
fr86b529.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/08/86	+11:03:14		
fr86b530.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/08/86	+11:05:14		
fr86b531.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	R	03/08/86	+11:06:32		
fr86b532.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/08/86	+11:09:10		
fr86b533.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/08/86	+11:11:03		
fr86b534.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/08/86	+11:12:27		
fr86b535.fits	"SA 84-334"	16:16:51.66	+14:41:47.4	V	03/08/86	+11:13:51		
fr86b536.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/08/86	+11:23:41		
fr86b537.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6185	03/08/86	+11:24:58		
fr86b538.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/08/86	+11:26:54		
fr86b539.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6250	03/08/86	+11:28:22		
fr86b540.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/08/86	+11:38:04		
fr86b541.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/08/86	+11:48:46		
fr86b542.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300	03/08/86	+11:52:33		
fr86b543.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/08/86	+11:56:18		
fr86b544.fits	"Kopff 27"	17:43:55.84	+05:24:48.2	6300TLT	03/08/86	+11:59:36		
fr86b545.fits	1P/Halley	20:15:36.32	-19:08:19.0	R	03/08/86	+12:27:01		
fr86b546.fits	1P/Halley	20:15:36.32	-19:08:19.0	R	03/08/86	+12:28:36		
fr86b547.fits	1P/Halley	20:15:36.32	-19:08:19.0	R	03/08/86	+12:33:43		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW)
fr86b548.fits	1P/Halley	20:15:36.32	-19:08:19.0	V	03/08/86	+12:34:43		
fr86b549.fits	1P/Halley	20:15:35.48	-19:08:30.3	V	03/08/86	+12:35:41		
fr86b550.fits	1P/Halley	20:15:35.48	-19:08:30.3	V	03/08/86	+12:37:37		
fr86b551.fits	1P/Halley	20:15:35.48	-19:08:30.3	6185	03/08/86	+12:39:14		
fr86b552.fits	1P/Halley	20:15:35.48	-19:08:30.3	6185	03/08/86	+12:40:55		
fr86b553.fits	1P/Halley	20:15:35.48	-19:08:30.3	6250	03/08/86	+12:43:50		
fr86b554.fits	1P/Halley	20:15:34.64	-19:08:41.6	6250	03/08/86	+12:46:02		
fr86b555.fits	1P/Halley	20:15:34.64	-19:08:41.6	R	03/08/86	+12:49:42		
fr86b556.fits	1P/Halley	20:15:34.64	-19:08:41.6	R	03/08/86	+12:50:42		
fr86b557.fits	1P/Halley	20:15:34.64	-19:08:41.6	6300	03/08/86	+12:53:52		
fr86b558.fits	1P/Halley	20:15:33.79	-19:08:52.9	6300TLT	03/08/86	+12:56:12		
fr86b559.fits	1P/Halley	20:15:33.79	-19:08:52.9	6300TLT	03/08/86	+12:58:28		
fr86b560.fits	1P/Halley	20:15:33.79	-19:08:52.9	6300	03/08/86	+13:02:20		
fr86b561.fits	1P/Halley	20:15:32.95	-19:09:04.2	6300	03/08/86	+13:06:17		
fr86b562.fits	1P/Halley	20:15:32.95	-19:09:04.2	6300TLT	03/08/86	+13:10:11		
fr86b563.fits	DARK			N/A	03/08/86	+13:37:33		
fr86b564.fits	DARK			N/A	03/08/86	+13:39:23		
fr86b565.fits	1P/Halley	20:11:28.77	-20:04:12.0	R	03/10/86	+12:27:24		Not photometric, cant focus, heavy cloud cover
fr86b566.fits	1P/Halley	20:11:28.77	-20:04:12.0	R	03/10/86	+12:28:19		Not photometric, cant focus, heavy cloud cover
fr86b567.fits	1P/Halley	20:11:28.77	-20:04:12.0	R	03/10/86	+12:29:21		Not photometric, cant focus, heavy cloud cover
fr86b568.fits	1P/Halley	20:11:26.97	-20:04:36.3	R	03/10/86	+12:45:25		Not photometric, cant focus, heavy cloud cover
fr86b569.fits	"FLAT FIELD"			R	03/11/86	+03:14:20		
fr86b570.fits	"FLAT FIELD"			R	03/11/86	+03:15:51		
fr86b571.fits	"FLAT FIELD"			V	03/11/86	+03:18:33		
fr86b572.fits	"FLAT FIELD"			V	03/11/86	+03:19:34		
fr86b573.fits	"FLAT FIELD"			6185	03/11/86	+03:21:02		
fr86b574.fits	"FLAT FIELD"			6185	03/11/86	+03:22:09		
fr86b575.fits	"FLAT FIELD"			6250	03/11/86	+03:26:16		
fr86b576.fits	"FLAT FIELD"			6250	03/11/86	+03:27:27		
fr86b577.fits	DARK			N/A	03/11/86	+03:29:08		
fr86b578.fits	DARK			N/A	03/11/86	+03:30:12		
fr86b579.fits	"FLAT FIELD"			8600	03/11/86	+03:42:11		
fr86b580.fits	"FLAT FIELD"			8600	03/11/86	+03:43:33		
fr86b581.fits	"FLAT FIELD"			9180	03/11/86	+03:51:56		
fr86b582.fits	"FLAT FIELD"			9180	03/11/86	+03:53:00		
fr86b583.fits	"FLAT FIELD"			4060	03/11/86	+04:01:17		
fr86b584.fits	"FLAT FIELD"			4060	03/11/86	+04:08:02		
fr86b585.fits	"FLAT FIELD"			4565	03/11/86	+04:17:16		
fr86b586.fits	"FLAT FIELD"			4565	03/11/86	+04:19:11		
fr86b587.fits	"FLAT FIELD"			5139	03/11/86	+04:25:08		
fr86b588.fits	"FLAT FIELD"			5139	03/11/86	+04:26:21		
fr86b589.fits	"FLAT FIELD"			5980	03/11/86	+04:29:33		
fr86b590.fits	"FLAT FIELD"			5980	03/11/86	+04:30:43		
fr86b591.fits	1P/Halley	20:04:39.21	-21:36:47.7	R	03/13/86	+12:17:36		Shutter didn't open
fr86b592.fits	1P/Halley	20:04:39.21	-21:36:47.7	R	03/13/86	+12:15:37		
fr86b593.fits	1P/Halley	20:04:39.21	-21:36:47.7	R	03/13/86	+12:20:40		
fr86b594.fits	1P/Halley	20:04:39.21	-21:36:47.7	R	03/13/86	+12:24:52		
fr86b595.fits	1P/Halley	20:04:38.17	-21:37:01.6	R	03/13/86	+12:28:17		
fr86b596.fits	1P/Halley	20:04:38.17	-21:37:01.6	R	03/13/86	+12:32:42		
fr86b597.fits	1P/Halley	20:04:38.17	-21:37:01.6	R	03/13/86	+12:34:17		

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fr86b598.fits	1P/Halley	20:04:37.14	-21:37:15.4	R	03/13/86	+12:42:04		
fr86b599.fits	1P/Halley	20:04:37.14	-21:37:15.4	R	03/13/86	+12:43:42		
fr86b600.fits	1P/Halley	20:04:36.11	-21:37:29.3	R	03/13/86	+12:45:24		
fr86b601.fits	1P/Halley	20:04:36.11	-21:37:29.3	R	03/13/86	+12:46:35		
fr86b602.fits	1P/Halley	20:04:36.11	-21:37:29.3	R	03/13/86	+12:52:43		
fr86b603.fits	DARK				03/13/86	+13:09:42		
fr86b604.fits	DARK				03/13/86	+13:10:54		