

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 270 CCW, invert y)
fr85a001.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+04:52:17	xdate	
fr85a002.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+04:53:38	xdate	
fr85a003.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+05:16:40	xdate	
fr85a004.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+05:18:29	xdate	
fr85a005.fits	2060 Chiron (1977 UB)	04:10:50.00	+16:34:27.7	V	1/15/1985	+05:29:55	xdate	Correct field; <b>mirrored</b>
fr85a006.fits	2060 Chiron (1977 UB)	04:10:49.95	+16:34:27.7	V	1/15/1985	+05:37:30	xdate	Correct field
fr85a007.fits	2060 Chiron (1977 UB)	04:10:49.95	+16:34:27.7	V	1/15/1985	+05:43:26	xdate	Correct field
fr85a008.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+05:57:59	xdate	
fr85a009.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+05:58:51	xdate	
fr85a010.fits	2060 Chiron (1977 UB)	04:10:49.85	+16:34:27.5	V	1/15/1985	+06:04:25	xdate	Correct field
fr85a011.fits	2060 Chiron (1977 UB)	04:10:49.80	+16:34:27.5	V	1/15/1985	+06:10:48	xdate	Correct field
fr85a012.fits	2060 Chiron (1977 UB)	04:10:49.74	+16:34:27.4	V	1/15/1985	+06:16:45	xdate	Correct field
fr85a013.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+06:26:51	xdate	
fr85a014.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+06:27:42	xdate	
fr85a015.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+06:32:15	xdate	
fr85a016.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+06:34:00	xdate	
fr85a017.fits	2060 Chiron (1977 UB)	04:10:49.64	+16:34:27.3	V	1/15/1985	+06:38:40	xdate	Correct field
fr85a018.fits	2060 Chiron (1977 UB)	04:10:49.64	+16:34:27.3	V	1/15/1985	+06:44:42	xdate	Correct field
fr85a019.fits	2060 Chiron (1977 UB)	04:10:49.59	+16:34:27.2	V	1/15/1985	+06:50:53	xdate	Correct field
fr85a020.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+07:01:16	xdate	
fr85a021.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+07:02:08	xdate	
fr85a022.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+07:07:44	xdate	
fr85a023.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+07:08:42	xdate	
fr85a024.fits	2060 Chiron (1977 UB)	04:10:49.49	+16:34:27.0	V	1/15/1985	+07:14:00	xdate	Correct field
fr85a025.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+07:27:51	xdate	
fr85a026.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	1/15/1985	+07:29:01	xdate	
fr85a027.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+07:35:51	xdate	
fr85a028.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+07:36:44	xdate	
fr85a029.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	1/15/1985	+07:39:05	xdate	
fr85a030.fits	"HUBBLE'S NEBULA"	06:39:10.08	+08:45:00.0	V	01/15/85	+08:45:30	xfilter	
fr85a031.fits	"HUBBLE'S NEBULA"	06:39:10.08	+08:45:00.0	V	01/15/85	+08:57:17	xfilter	
fr85a032.fits								Log is written
fr85a033.fits	"SAO 093817"			V	01/17/85	+03:10:23	xName	EXT, not sure
fr85a034.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/17/85	+03:19:06	xName	COMP

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fr85a035.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+03:27:27		
fr85a036.fits	2060 Chiron (1977 UB)	04:10:36.50	+16:34:10.6	V	01/17/85	+03:36:53		Correct field
fr85a037.fits								Log is written
fr85a038.fits	2060 Chiron (1977 UB)	04:10:36.50	+16:34:10.6	V	01/17/85	+03:53:33		Correct field
fr85a039.fits	2060 Chiron (1977 UB)	04:10:36.40	+16:34:10.5	V	01/17/85	+04:10:41		Correct field
fr85a040.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+04:29:20	xName	COMP
fr85a041.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+04:30:35		
fr85a042.fits	2060 Chiron (1977 UB)	04:10:36.25	+16:34:10.3	V	01/17/85	+04:36:44		Correct field
fr85a043.fits	2060 Chiron (1977 UB)	04:10:36.25	+16:34:10.3	V	01/17/85	+04:42:41		Correct field
fr85a044.fits								Log is written
fr85a045.fits	2060 Chiron (1977 UB)	04:10:36.16	+16:34:10.2	V	01/17/85	+04:58:33		Correct field
fr85a046.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+05:19:07	xName	typo in object name "SAO0938127"
fr85a047.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	R	01/17/85	+05:22:09		
fr85a048.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	R	01/17/85	+05:32:40		
fr85a049.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+05:37:44		
fr85a050.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/17/85	+05:43:19		
fr85a051.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/17/85	+05:44:34		
fr85a052.fits								Log is written
fr85a053.fits	2060 Chiron (1977 UB)	04:10:35.87	+16:34:09.8	R	01/17/85	+05:56:00		Correct field
fr85a054.fits	2060 Chiron (1977 UB)	04:10:35.87	+16:34:09.8	R	01/17/85	+06:04:31		Correct field
fr85a055.fits	2060 Chiron (1977 UB)	04:10:35.72	+16:34:09.6	V	01/17/85	+06:25:37		Correct field
fr85a056.fits								Log is written
fr85a057.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	R	01/17/85	+06:35:29		
fr85a058.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	R	01/17/85	+06:43:02		
fr85a059.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/17/85	+06:46:12		
fr85a060.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/17/85	+06:58:35		
fr85a061.fits	1P/Halley	05:30:26.65	+12:20:26.3	V	01/17/85	+07:17:41		Correct field
fr85a062.fits	1P/Halley	05:30:26.21	+12:20:26.8	V	01/17/85	+07:33:48		Correct field
fr85a063.fits	1P/Halley	05:30:24.91	+12:20:28.4	V	01/17/85	+08:00:32		Correct field
fr85a064.fits	1P/Halley	05:30:24.47	+12:20:28.9	V	01/17/85	+08:14:16		Correct field
fr85a065.fits	49P/Arend-Rigaux	09:06:34.72	+17:38:06.4	V	01/17/85	+08:32:38		Comet 49P/Arend-Rigaux
fr85a066.fits	49P/Arend-Rigaux	09:06:34.56	+17:40:09.4	V	01/17/85	+10:03:18		

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fr85a067.fits	49P/Arend-Rigaux	09:06:34.54	+17:40:23.1	V	01/17/85	+10:13:23		
fr85a068.fits	49P/Arend-Rigaux	09:06:34.52	+17:40:36.7	I	01/17/85	+10:23:48		
fr85a070.fits	49P/Arend-Rigaux	09:06:34.49	+17:41:03.9	I	01/17/85	+10:43:17		
fr85a073.fits	"SAO 117341"	09:00:55.14	+09:03:04.3	R	01/17/85	+11:17:43		
fr85a074.fits	"SAO 117341"	09:00:55.14	+09:03:04.3	V	01/17/85	+11:25:11		
fr85a075.fits	49P/Arend-Rigaux	09:06:34.43	+17:42:11.8	V	01/17/85	+11:31:57		
fr85a076.fits	49P/Arend-Rigaux	09:06:34.42	+17:42:25.4	R	01/17/85	+11:38:26	xfilter	
fr85a077.fits	49P/Arend-Rigaux	09:06:34.41	+17:42:39.0	I	01/17/85	+11:45:59		
fr85a078.fits	"FLAT FIELD"			V	01/17/85	+12:45:50		
fr85a079.fits	"FLAT FIELD"			V	01/17/85	+12:47:36		
fr85a080.fits	"FLAT FIELD"			V	01/17/85	+12:55:11		
fr85a081.fits	"FLAT FIELD"			V	01/17/85	+12:56:14		
fr85a082.fits	"FLAT FIELD"			R	01/17/85	+13:21:14		
fr85a083-86								Log is written
fr85a087.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/18/85	+05:23:51		
fr85a088.fits								Log is written
fr85a089.fits	2060 Chiron (1977 UB)	04:10:29.31	+16:34:02.3	V	01/18/85	+05:47:55		Correct field
fr85a090.fits	2060 Chiron (1977 UB)	04:10:29.26	+16:34:02.3	V	01/18/85	+06:01:15		BAD!!
fr85a091.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/18/85	+06:20:23		
fr85a092.fits	"SAO 093817"	04:13:02.44	+15:32:33.5	V	01/18/85	+06:23:00		
fr85a093.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/18/85	+06:31:28		
fr85a094.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/18/85	+06:33:30		
fr85a095.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/18/85	+06:41:13		
fr85a096.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+02:03:33		
fr85a097.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+02:38:43		
fr85a098.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+02:40:35		
fr85a099.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+02:50:32		
fr85a100.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+02:52:34		
fr85a101.fits	2060 Chiron (1977 UB)	04:10:23.72	+16:33:56.4	V	01/19/85	+02:58:11		BAD!!
fr85a102.fits	2060 Chiron (1977 UB)	04:10:23.68	+16:33:56.4	V	01/19/85	+03:08:00		Correct field
fr85a103.fits	2060 Chiron (1977 UB)	04:10:23.63	+16:33:56.3	V	01/19/85	+03:15:15		Correct field
fr85a104.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+03:25:13		
fr85a105.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+03:26:08		
fr85a106.fits	2060 Chiron (1977 UB)	04:10:23.59	+16:33:56.3	V	01/19/85	+03:30:05		Correct field
fr85a107.fits	2060 Chiron (1977 UB)	04:10:23.54	+16:33:56.2	V	01/19/85	+03:36:09		Correct field

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fr85a108.fits	2060 Chiron (1977 UB)	04:10:23.54	+16:33:56.2	V	01/19/85	+03:42:28		Correct field
fr85a109.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+03:51:14		
fr85a110.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+03:52:03		missed
fr85a111.fits	2060 Chiron (1977 UB)	04:10:23.45	+16:33:56.1	V	01/19/85	+03:55:23		Correct field
fr85a112.fits	2060 Chiron (1977 UB)	04:10:23.45	+16:33:56.1	V	01/19/85	+04:01:48		Correct field
fr85a113.fits	2060 Chiron (1977 UB)	04:10:23.41	+16:33:56.1	V	01/19/85	+04:07:57		Correct field
fr85a114.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+04:17:54		
fr85a115.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+04:18:54		
fr85a116.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+04:22:52		
fr85a117.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+04:24:03		
fr85a118.fits	SAO 093817	04:13:02.44	+15:32:33.5	R	01/19/85	+04:31:56		
fr85a119.fits	SAO 093817	04:13:02.44	+15:32:33.5	R	01/19/85	+04:33:12		
fr85a120.fits	2060 Chiron (1977 UB)	04:10:23.27	+16:33:56.0	R	01/19/85	+04:37:24		Correct field
fr85a121.fits	2060 Chiron (1977 UB)	04:10:23.23	+16:33:55.9	V	01/19/85	+04:47:33		Correct field
fr85a122.fits	2060 Chiron (1977 UB)	04:10:23.19	+16:33:55.9	V	01/19/85	+05:04:04		Correct field
fr85a123.fits	2060 Chiron (1977 UB)	04:10:23.14	+16:33:55.8	R	01/19/85	+05:12:43		Correct field
fr85a124.fits	SAO 093817	04:13:02.44	+15:32:33.5	R	01/19/85	+05:22:42		
fr85a125.fits	SAO 093817	04:13:02.44	+15:32:33.5	R	01/19/85	+05:23:33		
fr85a126.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+05:26:04		
fr85a127.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+05:26:52		
fr85a128.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+05:32:38		
fr85a129.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+05:33:27		
fr85a130.fits	2060 Chiron (1977 UB)	04:10:23.01	+16:33:55.7	V	01/19/85	+05:37:47		Correct field
fr85a131.fits	2060 Chiron (1977 UB)	04:10:23.01	+16:33:55.7	V	01/19/85	+05:43:37		Correct field
fr85a132.fits								Log is written
fr85a133.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+05:59:15		
fr85a134.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+06:00:03		
fr85a135.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+06:17:01		
fr85a136.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+06:17:48		
fr85a137.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+06:20:48		
fr85a138.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+06:24:54		Correct name and field
fr85a139.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+06:25:43		missed
fr85a140.fits	SAO 093817	04:13:02.44	+15:32:33.5	I	01/19/85	+06:29:16		Correct name and field
fr85a141.fits	SAO 093817	04:13:02.44	+15:32:33.5	I	01/19/85	+06:30:58		Correct name and field
fr85a142.fits	2060 Chiron (1977 UB)	04:10:22.74	+16:33:55.4	I	01/19/85	+06:35:16		Correct field
fr85a143.fits	2060 Chiron (1977 UB)	04:10:22.65	+16:33:55.4	I	01/19/85	+06:45:01		Correct field

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fr85a144.fits	2060 Chiron (1977 UB)	04:10:22.65	+16:33:55.4	I	01/19/85	+06:51:39		Correct field
fr85a145.fits	SAO 093817	04:13:02.44	+15:32:33.5	I	01/19/85	+06:59:36		
fr85a146.fits	SAO 093817	04:13:02.44	+15:32:33.5	I	01/19/85	+07:00:24		
fr85a147.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+07:05:21		
fr85a148.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+07:08:07		missed
fr85a149.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+07:09:44		
fr85a150.fits	SAO 110967	03:06:22.32	+05:16:42.7	V	01/19/85	+07:11:34		
fr85a151.fits	1P/Halley	05:28:23.17	+12:23:06.8	V	01/19/85	+07:28:55	xRA/DECset	Correct field, Log has wrong RA/DEC
fr85a152.fits	1P/Halley			V	01/19/85	+07:59:46		Possibly bad 0 exp time
fr85a153.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+08:04:09		
fr85a154.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+07:58:09		
fr85a155.fits	2060 Chiron (1977 UB)	04:10:22.34	+16:33:55.0	V	01/19/85	+08:12:35		Correct field
fr85a156.fits	2060 Chiron (1977 UB)	04:10:22.30	+16:33:54.9	V	01/19/85	+08:19:43		Correct field
fr85a157.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+08:28:46		
fr85a158.fits	SAO 093817	04:13:02.44	+15:32:33.5	V	01/19/85	+08:29:35		
fr85a159.fits	1P/Halley	05:28:20.61	+12:23:10.1	V	01/19/85	+08:34:01	xRA/DECset	Correct field according to ephemeris, No DEC tracking
fr85a160.fits	1P/Halley	05:28:19.76	+12:23:11.2	V	01/19/85	+08:45:41	xRA/DECset	Correct field according to ephemeris
fr85a161.fits	HUBBLES NEBULA	06:39:10.08	+08:45:00.0	R	01/19/85	+09:05:30		
fr85a162.fits	HUBBLES NEBULA	06:39:10.08	+08:45:00.0	R	01/19/85	+09:14:33		
fr85a163.fits	HUBBLES NEBULA	06:39:10.08	+08:45:00.0	I	01/19/85	+09:23:14		
fr85a164.fits	HUBBLES NEBULA	06:39:10.08	+08:45:00.0	I	01/19/85	+09:27:50		
fr85a165.fits	49P/Arend-Rigaux	09:06:37.13	+18:46:45.5	I9280	01/19/85	+10:47:58		Filter I9280
fr85a166.fits	49P/Arend-Rigaux	09:06:37.13	+18:46:45.5	I9280	01/19/85	+10:58:08	xRA/DECset	Filter I9280, Corrected RAset/DECset
fr85a167.fits	49P/Arend-Rigaux	09:06:37.03	+18:47:25.9	I7850	01/19/85	+11:23:44	xRA/DECset	Filter I7850, Corrected RAset/DECset
fr85a168.fits	49P/Arend-Rigaux	09:05:36.92	+18:48:19.7	I6300 [OI]	01/19/85	+12:01:33	xRA/DECset	Filter I6300 [OI], Narrow Band, Corrected RAset/DECset
fr85a169.fits	49P/Arend-Rigaux	09:06:36.84	+18:48:59.9	I6300 [OI]	01/19/85	+12:27:03	xRA/DECset	Filter I6300 [OI], Narrow Band, Corrected RAset/DECset
fr85a170.fits	49P/Arend-Rigaux	09:06:36.80	+18:49:26.8	B	01/19/85	+12:54:15	xRA/DECset	Corrected RAset/DECset
fr85a171.fits	"FLAT FIELD"			I	01/19/85	+13:37:53		
fr85a172.fits	"FLAT FIELD"			I	01/19/85	+13:39:57		
fr85a173.fits	"FLAT FIELD"			R	01/19/85	+13:45:55		
fr85a174.fits	"FLAT FIELD"			R	01/19/85	+13:49:07		
fr85a175.fits	"FLAT FIELD"			V	01/19/85	+13:59:08		
fr85a176.fits	"FLAT FIELD"			V	01/19/85	+14:01:49		
fr85a177.fits	"FLAT FIELD"			V	01/19/85	+14:03:17		