

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N left E up, rotate 90 CCW)
fr89dop1.fits	Flat Field			OPEN	"Tue Jun 27 1989"	11:24:00	xName	
fr89d005.fits	"VB 10"	19:16:57.62	+05:09:02.2	R	"Fri Jun 23 1989"	07:21:54		Images 1-4, 13-24, 33-39, 42, 46-67 have written logs, but no images exist
fr89d006.fits	"VB 10"	19:16:57.62	+05:09:02.2	B	"Fri Jun 23 1989"	07:24:30		
fr89d007.fits	"VB 10"	19:16:57.62	+05:09:02.2	R	"Fri Jun 23 1989"	07:33:13		
fr89d008.fits	Comet 71P/ Clark [1989]	11:10:39.58	+12:44:18.7	NONE	"Sat Jun 24 1989"	03:40:31		
fr89d009.fits	Comet 71P/ Clark [1989]	11:10:40.10	+12:44:13.5	NONE	"Sat Jun 24 1989"	03:50:21		
fr89d010.fits	Comet 71P/ Clark [1989]	11:10:41:13	+12:44:03.2	Open	"Sat Jun 24 1989"	04:06:19	xFilter	
fr89d011.fits	Comet 71P/ Clark [1989]	11:10:41:13	+12:44:03.2	BLUE	"Sat Jun 24 1989"	04:06:19	xFilter	
fr89d012.fits	Comet 71P/ Clark [1989]	11:10:42:69	+12:43:47.7	BLUE	"Sat Jun 24 1989"	04:43:44	xFilter	
fr89d025.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:13.10	+21:36:48.2	Open	"Mon Jun 26 1989"	04:28:57	xFilter	
fr89d026.fits	Comet 7P/ Pons-Winnecke [1989]			R	"Mon Jun 26 1989"	04:39:28		Image is faulty, looks dark; useless
fr89d027.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:17.10	+21:35:33.2	BLUE/ DICHR	"Mon Jun 26 1989"	05:28:18		
fr89d028.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:18.43	+21:35:08.2	BLUE/ DICHR	"Mon Jun 26 1989"	05:45:51		
fr89d029.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:19.10	+21:34:55.6	BLUE/ DICHR	"Mon Jun 26 1989"	05:59:53		
fr89d030.fits	"LHS 2924"	14:28:43.23	+33:10:39.1	BLUE	"Mon Jun 26 1989"	06:32:29		
fr89d031.fits	"LHS 2924"	14:28:43.23	+33:10:39.1	IJ	"Mon Jun 26 1989"	06:39:38		
fr89d032.fits	"LHS 2924"	14:28:43.23	+33:10:39.1	BLUE	"Mon Jun 26 1989"	07:01:06		
fr89d040.fits	Comet 123P/ West-Hartley [1988]	13:56:24.07	-13:08:58.9	OPEN	"Tue Jun 27 1989"	03:42:29		
fr89d041.fits	Comet 123P/ West-Hartley [1988]	13:56:24.26	-13:09:03.3	OPEN	"Tue Jun 27 1989"	04:00:55		
fr89d043.fits	NEPTUNE	18:48:46.56	-22:01:40.3	B/ DICHROIC	"Tue Jun 27 1989"	07:04:39		

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fr89d044.fits	NEPTUNE	18:48:46.46	-22:01:40.4	B/ DICHROIC	"Tue Jun 27 1989"	07:16:10		
fr89d045.fits	NEPTUNE	18:48:46.26	-22:01:40.7	B/ DICHROIC	"Tue Jun 27 1989"	07:57:48		
sp89d001.fits	VB10	19:16:57.62	+05:09:02.2		06/24/89	01:27:13	xDate	
sp89d002.fits	VB10	19:16:57.62	+05:09:02.2		06/24/89	01:40:01	xDate	
sp89d003.fits	VB10	19:16:57.62	+05:09:02.2		06/24/89	01:50:40	xDate	Log RA and DEC are off
sp89d004.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:45:29	xDate	
sp89d005.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:46:47	xDate	
sp89d006.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:47:38	xDate	
sp89d007.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:48:30	xDate	
sp89d008.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:49:16	xDate	
sp89d009.fits	BS 7406	19:28:57.08	+24:46:07.4		06/24/89	02:50:26	xDate	Log RA and DEC are off
sp89d010.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:42:46	xDate,xName	
sp89d011.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:45:01	xDate,xName	
sp89d012.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:45:53	xDate,xName	
sp89d013.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:47:06	xDate,xName	
sp89d014.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:47:48	xDate,xName	
sp89d015.fits	BS 8634	22:41:27.73	+10:49:52.6		06/24/89	03:48:37	xDate,xName	
sp89d016.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	20:54:04	xTime	Times for 1-102 are off, corrected in header
sp89d017.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	20:55:43	xTime	
sp89d018.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	20:56:35	xTime	
sp89d019.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	21:00:55	xTime	
sp89d020.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	21:01:41	xTime	
sp89d021.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	21:02:22	xTime	
sp89d022.fits	Comet 7P/ Pons-Winnecke [1989]	12:17:38.99	+22:05:38.6		06/25/89	21:40:56	xTime	
sp89d023.fits	Comet 7P/ Pons-Winnecke [1989]	12:17:39.32	+22:05:32.4		06/25/89	21:48:14	xTime	
sp89d024.fits	Comet 7P/ Pons-Winnecke [1989]	12:17:40.30	+22:05:13.9		06/25/89	22:00:15	xTime	
sp89d025.fits	Comet 7P/ Pons-Winnecke [1989]	12:17:40.96	+22:05:01.5		06/25/89	22:13:24	xTime	
sp89d026.fits	Comet 7P/ Pons-Winnecke [1989]	12:17:41.95	+22:04:42.8		06/25/89	22:25:40	xTime	
sp89d027.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:48:12	xTime	
sp89d028.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:49:44	xTime	
sp89d029.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:51:40	xTime	
sp89d030.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:52:49	xTime	
sp89d031.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:56:09	xTime	
sp89d032.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	22:57:08	xTime	
sp89d033.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	23:13:56	xTime	
sp89d034.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	23:14:43	xTime	
sp89d035.fits	"BS 5183"	13:46:57.12	+06:21:01.3		06/25/89	23:15:30	xTime	

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sp89d036.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	23:55:08	xTime	
sp89d037.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	00:07:59	xTime	
sp89d038.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	00:39:51	xTime	
sp89d039.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	00:51:08	xTime	
sp89d040.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	01:03:19	xTime	
sp89d041.fits	"VB 10"	19:16:57.62	+05:09:02.2		06/25/89	01:14:38	xTime	
sp89d042.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	01:54:51	xTime	
sp89d043.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	01:59:21	xTime	
sp89d044.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:02:05	xTime	
sp89d045.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:02:53	xTime	
sp89d046.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:03:40	xTime	
sp89d047.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:04:29	xTime	
sp89d048.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:06:15	xTime	
sp89d049.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:12:08	xTime	
sp89d050.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:17:50	xTime	
sp89d051.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:30:40	xTime	
sp89d052.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:44:18	xTime	
sp89d053.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:48:52	xTime	
sp89d054.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:49:47	xTime	
sp89d055.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:53:26	xTime	
sp89d056.fits	"BS 7569"	19:52:03.44	+11:37:42.0		06/25/89	02:54:52	xTime	
sp89d057.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:14.43	+21:36:23.2		06/26/89	21:21:39	xTime, xName	
sp89d058.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:15.10	+21:36:10.7		06/26/89	21:34:56	xTime, xName	
sp89d059.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:16.43	+21:35:45.7		06/26/89	21:56:23	xTime, xName	
sp89d060.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:18.43	+21:35:08.2		06/26/89	22:18:52	xTime, xName	
sp89d061.fits	Comet 7P/ Pons-Winnecke [1989]	12:19:19.10	+21:34:55.6		06/26/89	22:31:20	xTime, xName	
sp89d062.fits	"BS 5534"	14:50:15.86	+23:54:42.7		06/26/89	00:45:14	xTime	
sp89d063.fits	"BS 5534"	14:50:15.86	+23:54:42.7		06/26/89	00:50:24	xTime	
sp89d064.fits	"BS 5534"	14:50:15.86	+23:54:42.7		06/26/89	00:53:55	xTime	
sp89d065.fits	"BS 5534"	14:50:15.86	+23:54:42.7		06/26/89	01:01:56	xTime	
sp89d066.fits	"BS 5534"	14:50:15.86	+23:54:42.7		06/26/89	01:02:58	xTime	
sp89d067.fits	"BS 7637"	19:59:47.34	-09:57:29.7		06/26/89	01:16:12	xTime	
sp89d068.fits	"BS 7637"	19:59:47.34	-09:57:29.7		06/26/89	01:17:29	xTime	
sp89d069.fits	"BS 7637"	19:59:47.34	-09:57:29.7		06/26/89	01:18:33	xTime	
sp89d070.fits	"BS 7235"	19:05:24.61	+13:51:48.5		06/26/89	01:30:19	xTime	
sp89d071.fits	"BS 7235"	19:05:24.61	+13:51:48.5		06/26/89	01:31:45	xTime	
sp89d072.fits	"BS 7235"	19:05:24.61	+13:51:48.5		06/26/89	01:32:35	xTime	
sp89d073.fits	"BS 7235"	19:05:24.61	+13:51:48.5		06/26/89	01:33:23	xTime	
sp89d074.fits	"BS 7235"	19:05:24.61	+13:51:48.5		06/26/89	01:35:09	xTime	

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sp89d075.fits	LHS 2924	14:28:43.23	+33:10:39.1		06/26/89	21:01:41	xTime	
sp89d076.fits	LHS 2924	14:28:43.23	+33:10:39.1		06/26/89	21:14:22	xTime	
sp89d077.fits	LHS 2924	14:28:43.23	+33:10:39.1		06/26/89	21:26:07	xTime	
sp89d078.fits	LHS 2924	14:28:43.23	+33:10:39.1		06/26/89	21:58:07	xTime	
sp89d079.fits	LHS 2924	14:28:43.23	+33:10:39.1		06/26/89	22:30:00	xTime	
sp89d080.fits	BS 7235	19:05:24.61	+13:51:48.5		06/26/89	23:11:05	xTime	
sp89d081.fits	BS 7235	19:05:24.61	+13:51:48.5		06/26/89	23:17:36	xTime	
sp89d082.fits	BS 7235	19:05:24.61	+13:51:48.5		06/26/89	23:19:40	xTime	
sp89d083.fits	BS 7235	19:05:24.61	+13:51:48.5		06/26/89	23:22:00	xTime	
sp89d084.fits	BS 7235	19:05:24.61	+13:51:48.5		06/26/89	23:24:39	xTime	
sp89d085.fits	TRITON	18:48:54.52	-22:01:35.2		06/26/89	00:01:39	xTime	
sp89d086.fits	TRITON	18:48:54.47	-22:01:35.4		06/26/89	00:08:38	xTime	
sp89d087.fits	TRITON	18:48:54.42	-22:01:35.5		06/26/89	00:22:03	xTime	
sp89d088.fits	TRITON	18:48:54.37	-22:01:35.7		06/26/89	00:28:52	xTime	
sp89d089.fits	TRITON	18:48:54.32	-22:01:35.8		06/26/89	00:40:41	xTime	
sp89d090.fits	TRITON	18:48:54.27	-22:01:36.0		06/26/89	00:52:28	xTime	
sp89d091.fits	TRITON	18:48:54.22	-22:01:36.1		06/26/89	01:05:29	xTime	
sp89d092.fits	TRITON	18:48:54.17	-22:01:36.3		06/26/89	01:16:33	xTime	
sp89d093.fits	"BS 7998"	20:53:58.39	-06:53:22.1		06/26/89	01:35:47	xTime	
sp89d094.fits	"BS 7998"	20:53:58.39	-06:53:22.1		06/26/89	01:37:26	xTime	
sp89d095.fits	"BS 7998"	20:53:58.39	-06:53:22.1		06/26/89	01:38:41	xTime	
sp89d096.fits	"BS 7998"	20:53:58.39	-06:53:22.1		06/26/89	01:39:57	xTime	
sp89d097.fits	"BS 7998"	20:53:58.39	-06:53:22.1		06/26/89	01:45:30	xTime	
sp89d098.fits	"BS 7291"	19:15:33.28	-24:10:46.2		06/26/89	01:56:47	xTime	
sp89d099.fits	"BS 7291"	19:15:33.28	-24:10:46.2		06/26/89	01:58:07	xTime	
sp89d100.fits	"BS 7291"	19:15:33.28	-24:10:46.2		06/26/89	01:59:30	xTime	
sp89d101.fits	"BS 7291"	19:15:33.28	-24:10:46.2		06/26/89	02:00:36	xTime	
sp89d102.fits	"BS 7291"	19:15:33.28	-24:10:46.2		06/26/89	02:01:45	xTime	

Above output obtained by running: `hselect fr*.fits $!,object,ra,dec,filter,date,ut-strt yes > 89d_hselect`
The **Log Differences** and **Comments** columns are the observations noted after comparing the FITS header with log sheets.