

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c001.fits	TEST			A0	"Fri Apr 14 1989"	04:10:51		No handwritten log
fr89c002.fits	TEST			A0	"Fri Apr 14 1989"	04:12:18		No handwritten log
fr89c003.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:16:11		No handwritten log; assuming correct star
fr89c004.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:17:17		No handwritten log; assuming correct star
fr89c005.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:20:09		No handwritten log; assuming correct star
fr89c006.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:21:26		No handwritten log; assuming correct star
fr89c007.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:29:30		No handwritten log; assuming correct star
fr89c008.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:30:08		No handwritten log; assuming correct star
fr89c009.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:31:54		No handwritten log; assuming correct star
fr89c010.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:33:00		No handwritten log; assuming correct star
fr89c011.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:33:57		No handwritten log; assuming correct star
fr89c012.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	04:40:23		No handwritten log; assuming correct star
fr89c013.fits	pluto	15:07:09.44	-00:34:14.0	A0	"Fri Apr 14 1989"	05:09:30		No handwritten log; assuming correct star
fr89c014.fits	pluto			A0	"Fri Apr 14 1989"	05:12:34		No handwritten log; Object not in frame, useless
fr89c015.fits	pluto	15:07:09.40	-00:34:13.7	A0	"Fri Apr 14 1989"	05:15:19		No handwritten log; assuming correct star
fr89c016.fits	pluto	15:07:09.40	-00:34:13.7	A0	"Fri Apr 14 1989"	05:17:43		only 1 star in the image, so assuming it is pluto
fr89c017.fits	pluto	15:07:09.40	-00:34:13.7	A0	"Fri Apr 14 1989"	05:20:56		only 1 star in the image, so assuming it is pluto
fr89c018.fits	pluto	15:07:09.40	-00:34:13.7	A0	"Fri Apr 14 1989"	05:22:39		only 1 star in the image, so assuming it is pluto
fr89c019.fits	pluto	15:07:09.40	-00:34:13.7	A0	"Fri Apr 14 1989"	05:24:15		only 1 star in the image, so assuming it is pluto

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c020.fits	pluto	15:07:09.36	-00:34:13.5	A0	"Fri Apr 14 1989"	05:26:52		only 1 star in the image, so assuming it is pluto
fr89c021.fits	pluto	15:07:09.36	-00:34:13.5	A0	"Fri Apr 14 1989"	05:29:45		only 1 star in the image, so assuming it is pluto
fr89c022.fits	pluto	15:07:09.36	-00:34:13.5	A0	"Fri Apr 14 1989"	05:32:18		only 1 star in the image, so assuming it is pluto
fr89c023.fits	pluto	15:07:09.36	-00:34:13.5	A0	"Fri Apr 14 1989"	05:34:54		only 1 star in the image, so assuming it is pluto
fr89c024.fits	pluto	15:07:09.32	-00:34:13.3	A0	"Fri Apr 14 1989"	05:36:49		only 1 star in the image, so assuming it is pluto
fr89c025.fits	pluto	15:07:09.32	-00:34:13.3	A0	"Fri Apr 14 1989"	05:38:32		only 1 star in the image, so assuming it is pluto
fr89c026.fits	pluto	15:07:09.32	-00:34:13.3	A0	"Fri Apr 14 1989"	05:40:17		only 1 star in the image, so assuming it is pluto
fr89c027.fits	pluto	15:07:09.32	-00:34:13.3	A0	"Fri Apr 14 1989"	05:42:22		only 1 star in the image, so assuming it is pluto
fr89c028.fits	pluto	15:07:09.32	-00:34:13.3	A0	"Fri Apr 14 1989"	05:44:09		only 1 star in the image, so assuming it is pluto
fr89c029.fits	pluto	15:07:09.28	-00:34:13.0	A0	"Fri Apr 14 1989"	05:46:04		only 1 star in the image, so assuming it is pluto
fr89c030.fits	pluto	15:07:09.28	-00:34:13.0	A0	"Fri Apr 14 1989"	05:47:53		only 1 star in the image, so assuming it is pluto
fr89c031.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	05:52:31		only 1 star in the image, so assuming it is SAO 120107
fr89c032.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	05:54:03		only 1 star in the image, so assuming it is SAO 120108
fr89c033.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	05:56:38		only 1 star in the image, so assuming it is SAO 120109
fr89c034.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	05:58:17		only 1 star in the image, so assuming it is SAO 120110
fr89c035.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	05:59:44	xName	only 1 star in the image, so assuming it is SAO 120111
fr89c036.fits	pluto	15:07:09.24	-00:34:12.8	A0	"Fri Apr 14 1989"	06:02:23		only 1 star in the image, so assuming it is pluto
fr89c037.fits	pluto	15:07:09.20	-00:34:12.5	A0	"Fri Apr 14 1989"	06:06:01		only 1 star in the image, so assuming it is pluto
fr89c038.fits	pluto	15:07:09.20	-00:34:12.5	A0	"Fri Apr 14 1989"	06:08:15		only 1 star in the image, so assuming it is pluto
fr89c039.fits	pluto	15:07:09.20	-00:34:12.5	A0	"Fri Apr 14 1989"	06:09:53		only 1 star in the image, so assuming it is pluto

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c040.fits	pluto	15:07:09.20	-00:34:12.5	A0	"Fri Apr 14 1989"	06:12:23		only 1 star in the image, so assuming it is pluto
fr89c041.fits	pluto	15:07:09.20	-00:34:12.5	A0	"Fri Apr 14 1989"	06:14:43		only 1 star in the image, so assuming it is pluto
fr89c042.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:16:29		only 1 star in the image, so assuming it is pluto
fr89c043.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:18:14		only 1 star in the image, so assuming it is pluto
fr89c044.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:19:28		only 1 star in the image, so assuming it is pluto
fr89c045.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:21:03		only 1 star in the image, so assuming it is pluto
fr89c046.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:22:14		only 1 star in the image, so assuming it is pluto
fr89c047.fits	pluto	15:07:09.17	-00:34:12.3	A0	"Fri Apr 14 1989"	06:23:54		only 1 star in the image, so assuming it is pluto
fr89c048.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:25:05		only 1 star in the image, so assuming it is pluto
fr89c049.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:27:15		only 1 star in the image, so assuming it is pluto
fr89c050.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:28:36		only 1 star in the image, so assuming it is pluto
fr89c051.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:30:10		only 1 star in the image, so assuming it is pluto
fr89c052.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:31:42		only 1 star in the image, so assuming it is pluto
fr89c053.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:33:15		only 1 star in the image, so assuming it is pluto
fr89c054.fits	pluto	15:07:09.13	-00:34:12.1	A0	"Fri Apr 14 1989"	06:34:45		only 1 star in the image, so assuming it is pluto
fr89c055.fits	pluto	15:07:09.09	-00:34:11.8	A0	"Fri Apr 14 1989"	06:36:18		only 1 star in the image, so assuming it is pluto
fr89c056.fits	pluto	15:07:09.09	-00:34:11.8	A0	"Fri Apr 14 1989"	06:37:29		only 1 star in the image, so assuming it is pluto
fr89c057.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	06:43:02		only 1 star in the image, so assuming it is SAO 120107
fr89c058.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	06:45:02		only 1 star in the image, so assuming it is SAO 120107
fr89c059.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	06:46:25		only 1 star in the image, so assuming it is SAO 120107

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c060.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	06:47:47		only 1 star in the image, so assuming it is SAO 120107
fr89c061.fits	pluto	15:07:09.05	-00:34:11.6	A0	"Fri Apr 14 1989"	06:49:28		only 1 star in the image, so assuming it is pluto
fr89c062.fits	pluto	15:07:09.05	-00:34:11.6	A0	"Fri Apr 14 1989"	06:52:46		only 1 star in the image, so assuming it is pluto
fr89c063.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	06:55:05		only 1 star in the image, so assuming it is pluto
fr89c064.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	06:56:52		only 1 star in the image, so assuming it is pluto
fr89c065.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	06:58:05		only 1 star in the image, so assuming it is pluto
fr89c066.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	06:59:39		only 1 star in the image, so assuming it is pluto
fr89c067.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	07:01:42		only 1 star in the image, so assuming it is pluto
fr89c068.fits	pluto	15:07:09.01	-00:34:11.4	A0	"Fri Apr 14 1989"	07:03:43		only 1 star in the image, so assuming it is pluto
fr89c069.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:05:22		only 1 star in the image, so assuming it is pluto
fr89c070.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:07:12		only 1 star in the image, so assuming it is pluto
fr89c071.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:08:23		only 1 star in the image, so assuming it is pluto
fr89c072.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:09:57		only 1 star in the image, so assuming it is pluto
fr89c073.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:11:08		only 1 star in the image, so assuming it is pluto
fr89c074.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:12:35		only 1 star in the image, so assuming it is pluto
fr89c075.fits	pluto	15:07:08.97	-00:34:11.1	A0	"Fri Apr 14 1989"	07:14:28		only 1 star in the image, so assuming it is pluto
fr89c076.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:15:56		only 1 star in the image, so assuming it is pluto
fr89c077.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:18:21		only 1 star in the image, so assuming it is pluto
fr89c078.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:19:58		only 1 star in the image, so assuming it is pluto
fr89c079.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:21:10		only 1 star in the image, so assuming it is pluto

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c080.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:22:46		only 1 star in the image, so assuming it is pluto
fr89c081.fits	pluto	15:07:08.93	-00:34:10.9	A0	"Fri Apr 14 1989"	07:23:58		only 1 star in the image, so assuming it is pluto
fr89c082.fits	pluto	15:07:08.89	-00:34:10.6	A0	"Fri Apr 14 1989"	07:26:00		only 1 star in the image, so assuming it is pluto
fr89c083.fits	pluto	15:07:08.89	-00:34:10.6	A0	"Fri Apr 14 1989"	07:27:17		only 1 star in the image, so assuming it is pluto
fr89c084.fits	pluto	15:07:08.89	-00:34:10.6	A0	"Fri Apr 14 1989"	07:30:36		only 1 star in the image, so assuming it is pluto
fr89c085.fits	pluto	15:07:08.89	-00:34:10.6	A0	"Fri Apr 14 1989"	07:32:25		only 1 star in the image, so assuming it is pluto
fr89c086.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:37:21		only 1 star in the image, so assuming it is SAO 120107
fr89c087.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:39:21		only 1 star in the image, so assuming it is SAO 120108
fr89c088.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:40:36		only 1 star in the image, so assuming it is SAO 120109
fr89c089.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:41:23		only 1 star in the image, so assuming it is SAO 120110
fr89c090.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:42:07		only 1 star in the image, so assuming it is SAO 120111
fr89c091.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	07:43:43		only 1 star in the image, so assuming it is SAO 120112
fr89c092.fits	Dark			A0	"Fri Apr 14 1989"	07:50:12	xName	No stars or objects in the image
fr89c093.fits	pluto	15:07:08.81	-00:34:10.2	A0	"Fri Apr 14 1989"	07:54:30		only 1 star in the image, so assuming it is pluto
fr89c094.fits	pluto	15:07:08.77	-00:34:09.9	A0	"Fri Apr 14 1989"	07:57:27		only 1 star in the image, so assuming it is pluto
fr89c095.fits	pluto	15:07:08.77	-00:34:09.9	A0	"Fri Apr 14 1989"	07:58:44		only 1 star in the image, so assuming it is pluto
fr89c096.fits	pluto	15:07:08.77	-00:34:09.9	A0	"Fri Apr 14 1989"	08:00:44		only 1 star in the image, so assuming it is pluto
fr89c097.fits	pluto	15:07:08.77	-00:34:09.9	A0	"Fri Apr 14 1989"	08:01:57		only 1 star in the image, so assuming it is pluto
fr89c098.fits	pluto	15:07:08.77	-00:34:09.9	A0	"Fri Apr 14 1989"	08:04:10		only 1 star in the image, so assuming it is pluto
fr89c099.fits	pluto	15:07:08.73	-00:34:09.7	A0	"Fri Apr 14 1989"	08:05:57		only 1 star in the image, so assuming it is pluto

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c100.fits	pluto	15:07:08.73	-00:34:09.7	A0	"Fri Apr 14 1989"	08:07:12		only 1 star in the image, so assuming it is pluto
fr89c101.fits	pluto	15:07:08.73	-00:34:09.7	A0	"Fri Apr 14 1989"	08:09:39		only 1 star in the image, so assuming it is pluto
fr89c102.fits	pluto	15:07:08.73	-00:34:09.7	A0	"Fri Apr 14 1989"	08:12:28		only 1 star in the image, so assuming it is pluto
fr89c103.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:15:15		only 1 star in the image, so assuming it is pluto
fr89c104.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:16:53		only 1 star in the image, so assuming it is pluto
fr89c105.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:18:05		only 1 star in the image, so assuming it is pluto
fr89c106.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:20:04		only 1 star in the image, so assuming it is pluto
fr89c107.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:21:21		only 1 star in the image, so assuming it is pluto
fr89c108.fits	pluto	15:07:08.69	-00:34:09.5	A0	"Fri Apr 14 1989"	08:23:22		only 1 star in the image, so assuming it is pluto
fr89c109.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:26:04		only 1 star in the image, so assuming it is pluto
fr89c110.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:27:36		only 1 star in the image, so assuming it is pluto
fr89c111.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:28:54		only 1 star in the image, so assuming it is pluto
fr89c112.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:30:29		only 1 star in the image, so assuming it is pluto
fr89c113.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:32:03		only 1 star in the image, so assuming it is pluto
fr89c114.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:33:17		only 1 star in the image, so assuming it is pluto
fr89c115.fits	pluto	15:07:08.65	-00:34:09.2	A0	"Fri Apr 14 1989"	08:34:55		only 1 star in the image, so assuming it is pluto
fr89c116.fits	pluto	15:07:08.61	-00:34:09.2	A0	"Fri Apr 14 1989"	08:36:28		only 1 star in the image, so assuming it is pluto
fr89c117.fits	pluto	15:07:08.61	-00:34:09.2	A0	"Fri Apr 14 1989"	08:37:40		only 1 star in the image, so assuming it is pluto
fr89c118.fits	pluto	15:07:08.61	-00:34:09.2	A0	"Fri Apr 14 1989"	08:39:48		only 1 star in the image, so assuming it is pluto
fr89c119.fits	pluto	15:07:08.61	-00:34:09.2	A0	"Fri Apr 14 1989"	08:44:58		only 1 star in the image, so assuming it is pluto

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c120.fits	pluto	15:07:08.58	-00:34:08.7	A0	"Fri Apr 14 1989"	08:52:54		only 1 star in the image, so assuming it is pluto
fr89c121.fits	pluto	15:07:08.58	-00:34:08.7	A0	"Fri Apr 14 1989"	08:54:50		No handwritten log; assuming correct star
fr89c122.fits	pluto	15:07:08.54	-00:34:08.5	A0	"Fri Apr 14 1989"	08:56:22		No handwritten log; assuming correct star
fr89c123.fits	pluto	15:07:08.54	-00:34:08.5	A0	"Fri Apr 14 1989"	08:58:25		No handwritten log; assuming correct star
fr89c124.fits	pluto	15:07:08.54	-00:34:08.5	A0	"Fri Apr 14 1989"	08:59:55		No handwritten log; assuming correct star
fr89c125.fits	pluto	15:07:08.54	-00:34:08.5	A0	"Fri Apr 14 1989"	09:02:27		No handwritten log; assuming correct star
fr89c126.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:11:12		No handwritten log; assuming correct star
fr89c127.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:12:24		No handwritten log; assuming correct star
fr89c128.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:13:26		No handwritten log; assuming correct star
fr89c129.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:14:34		No handwritten log; assuming correct star
fr89c130.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:15:35		No handwritten log; assuming correct star
fr89c131.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:16:24		No handwritten log; assuming correct star
fr89c132.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:17:05		No handwritten log; assuming correct star
fr89c133.fits	SAO 120107	13:46:57.91	+06:01:37.7	A0	"Fri Apr 14 1989"	09:18:05		No handwritten log; assuming correct star
fr89c134.fits	pluto	15:07:08.42	-00:34:07.8	A0	"Fri Apr 14 1989"	09:28:28		No handwritten log; assuming correct star
fr89c135.fits	pluto	15:07:08.42	-00:34:07.8	A0	"Fri Apr 14 1989"	09:30:32		No handwritten log; assuming correct star
fr89c136.fits	pluto	15:07:08.42	-00:34:07.8	A0	"Fri Apr 14 1989"	09:32:23		No handwritten log; assuming correct star
fr89c137.fits	pluto	15:07:08.42	-00:34:07.8	A0	"Fri Apr 14 1989"	09:34:09		No handwritten log; assuming correct star
fr89c138.fits	pluto	15:07:08.38	-00:34:07.5	A0	"Fri Apr 14 1989"	09:35:49		No handwritten log; assuming correct star
fr89c139.fits	pluto	15:07:08.38	-00:34:07.5	A0	"Fri Apr 14 1989"	09:37:26		No handwritten log; assuming correct star

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
fr89c140.fits	pluto	15:07:08.38	-00:34:07.5	A0	"Fri Apr 14 1989"	09:39:13		No handwritten log; assuming correct star
fr89c141.fits	VB8	16:55:35.29	-08:23:40.1	A0	"Fri Apr 14 1989"	10:47:09		No handwritten log; assuming correct star
fr89c142.fits	VB8	16:55:35.29	-08:23:40.1	A0	"Fri Apr 14 1989"	10:50:57		No handwritten log; assuming correct star
fr89c143.fits	flat			A0	"Fri Apr 14 1989"	12:17:44		
fr89c144.fits	flat			A0	"Fri Apr 14 1989"	12:18:44		
fr89c145.fits	flat			A0	"Fri Apr 14 1989"	12:19:53		
fr89c146.fits	flat			A0	"Fri Apr 14 1989"	12:20:39		
fr89c147.fits	flat			A0	"Fri Apr 14 1989"	12:21:29		
fr89c148.fits	flat			A0	"Fri Apr 14 1989"	12:22:12		
fr89c149.fits	Dark			A0	"Fri Apr 14 1989"	12:24:39	xName	
fr89c150.fits	Dark			A0	"Fri Apr 14 1989"	12:25:29	xName	
sp89c001.fits	BS 3750	09:27:46.78	-06:04:16.3		"Fri Apr 14 1989"	03:45:53		
sp89c002.fits	BS 3750	09:27:46.78	-06:04:16.3		"Fri Apr 14 1989"	03:48:06		
sp89c003.fits	BS 3750	09:27:46.78	-06:04:16.3		"Fri Apr 14 1989"	03:50:43		
sp89c004.fits	BS 3750	09:27:46.78	-06:04:16.3		"Fri Apr 14 1989"	03:51:41		
sp89c005.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	04:10:50		
sp89c006.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	04:12:03		
sp89c007.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	04:16:08		
sp89c008.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	04:20:12		
sp89c009.fits	Pluto	15:07:09.40	-00:34:13.7		"Fri Apr 14 1989"	05:16:22		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
sp89c010.fits	Pluto	15:07:09.36	-00:34:13.5		"Fri Apr 14 1989"	05:27:59		
sp89c011.fits	Pluto	15:07:09.32	-00:34:13.3		"Fri Apr 14 1989"	05:38:55		
sp89c012.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	05:53:52	xName	In header as Pluto
sp89c013.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	05:55:30		
sp89c014.fits	SAO 120107				"Fri Apr 14 1989"	05:56:44	xName	Does not match SAO 120107 field; Log indicates image is junk
sp89c015.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	05:57:58		
sp89c016.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	05:59:02		
sp89c017.fits	Pluto	15:07:09.20	-00:34:12.5		"Fri Apr 14 1989"	06:07:38		
sp89c018.fits	Pluto	15:07:09.17	-00:34:12.3		"Fri Apr 14 1989"	06:18:27		
sp89c019.fits	Pluto	15:07:09.13	-00:34:12.1		"Fri Apr 14 1989"	06:29:25		
sp89c020.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	06:44:05		
sp89c021.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	06:45:07		
sp89c022.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	06:46:16		
sp89c023.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	06:47:34		
sp89c024.fits	Pluto	15:07:09.05	-00:34:11.6		"Fri Apr 14 1989"	06:52:09		
sp89c025.fits	Pluto	15:07:09.01	-00:34:11.4		"Fri Apr 14 1989"	07:02:56		
sp89c026.fits	Pluto	15:07:08.97	-00:34:11.1		"Fri Apr 14 1989"	07:13:30		
sp89c027.fits	Pluto	15:07:08.93	-00:34:10.9		"Fri Apr 14 1989"	07:24:20		
sp89c028.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	07:39:16		
sp89c029.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	07:40:27		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
sp89c030.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	07:41:35		
sp89c031.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	07:43:40		
sp89c032.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	07:44:36		
sp89c033.fits	Pluto	15:07:08.77	-00:34:09.9		"Fri Apr 14 1989"	07:56:14		
sp89c034.fits	Pluto	15:07:08.73	-00:34:09.7		"Fri Apr 14 1989"	08:07:06		Moved during exposure
sp89c035.fits	Pluto	15:07:08.69	-00:34:09.5		"Fri Apr 14 1989"	08:23:12		Moved during exposure
sp89c036.fits	Pluto	15:07:08.65	-00:34:09.2		"Fri Apr 14 1989"	08:34:07		Moved during exposure
sp89c037.fits	Pluto	15:07:08.58	-00:34:08.7		"Fri Apr 14 1989"	08:45:05		
sp89c038.fits	Pluto	15:07:08.54	-00:34:08.5		"Fri Apr 14 1989"	08:56:18		Moved during exposure
sp89c039.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	09:11:07		
sp89c040.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	09:12:33		
sp89c041.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	09:14:42		
sp89c042.fits	SAO 120107	13:46:57.91	+06:01:37.7		"Fri Apr 14 1989"	09:18:02		
sp89c043.fits	Pluto	15:07:08.42	-00:34:07.8		"Fri Apr 14 1989"	09:29:57		
sp89c044.fits	VB8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	10:11:16		No entry in logbook
sp89c045.fits	VB8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	10:16:10		
sp89c046.fits	VB8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	10:27:53		
sp89c047.fits	VB8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	10:41:14		
sp89c048.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:10:48		
sp89c049.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:11:33		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (Only single object in all images, so don't know the rotation)
sp89c050.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:12:28		
sp89c051.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:13:15		
sp89c052.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:14:22		
sp89c053.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:15:11		
sp89c054.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:15:59		
sp89c055.fits	BS 6060	16:15:37.27	-08:22:10.0		"Fri Apr 14 1989"	11:16:45		
sp89c056.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:31:04		
sp89c057.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:32:11		
Above output obtained by running: <code>hselect fr*.fits \$l,object,ra,dec,filter,date,ut-strt yes > 89c_hselect</code> The Log Differences and Comments columns are the observations noted after comparing the FITS header with log sheets.								
sp89c058.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:33:22		
sp89c059.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:34:32		
sp89c060.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:35:21		
sp89c061.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:36:13		
sp89c062.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:39:19		
sp89c063.fits	BS 6629	17:47:53.56	+02:42:26.2		"Fri Apr 14 1989"	11:40:33		
sp89c064.fits	vb8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	11:47:49		
sp89c065.fits	vb8	16:55:35.29	-08:23:40.1		"Fri Apr 14 1989"	11:58:50		