

Telescope: 61"

Iris: 302

Frame prefix #: SP946 Day of Week: THUR

Focus: 344 Humdty: 55 Sheet #: 1

Observers: HICKS, GRUNDY, FINK Date MST/UT: DEC 1/2

Tailpiece:
Balance: Temp O/I: 32/40

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)	
2	001	M ₂ 94R	600	0.5	5K	3:50	4:36:41	+32:19	-3:25	(AM=1.37) OPPS, forgot to write AM
3	002	"	1200	0.5	10K	4:03	4:36:39	+32:18.52	-3:13	(AM=1.31) 1.29 at 4:10, 1.24 end
4	003	"	"	"	10K	4:25	4:36:34	+32:17.29	-2:50	1.23
5	004	"	"	"	10K	4:46	4:36:29	32:14.32	-2:29	1.17 - 1.12
6	005	"	600	"	5.3K	5:11	4:36:24	32:15.24	-2:04	SHORT EXP TO AVOID 1.11 - 1.10 BRIGHT STAR
	X	WE SAVED	FIRST	ON TWICE,	ONE ON	543	AND	IMA		65U COMP +.62 B-V NUMBERS OFF
	007	BS 1262	1.0	0.5	18K	5:27	4:05:19	+22:00.27	-1:16	1.06 65U COMP +0.62 B-V
	008	"	"	"	18K	5:28				1.06
	009	"	"	"		5:29				1.06
	010, 11, 12, 13, 14	"	"	"						1.06, 1.06, 1.06, 1.06, 1.06
	015	BS 2067	7.0	0.5	16K					1.38
	016	"	2.0	0.5	17L	5:42	5:56:06	+13:55.13	-2:52	1.38
	017, 18, 19, 20, 21, 22, 23									1.37, 1.36, 1.36, 1.36, 1.36
	24	BS 718	0.5	1.0		5:58	2:28:04	8:27:20	+0:51	1.12
	25	"	0.5	"						1.12
	26	"	0.4	"						1.12
	27	"	0.4	"						1.12

94C

Telescope: 61"

Iris: 302

Frame prefix #894G

Date of Week: FRI

Focus: 3503³ ³ _{no unrain} Humdty: 64 ✓ Sheet #: 3

Observers: HICKS, GRAND Date MST/UT: DEC 2/3

Tailpiece: Balance: Temp O/I: 38/34 ✓
Guidepoint: (394.4, 406)

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	hour-angle exp-start	SecZ	Comments: VME crashes, seeing, Moon, clouds, etc.
46	P1Remuth2	1200	0.5	2166 1283	2:24	1:27:03	20:13:21	-1:38	1.10	
47	"	"	"	2155 1348	2:47	1:27:03	+70:13:02	-1:15	1.07	
48	"	"	"	2007 1316	3:07	1:27:02	+70:13:16	-00:55	1.05	jump in ent last 3 min exp.
49	"	"	"	1833 1325	3:28	1:26:58	+70:13:14	-0:34	1.03	
50	"	"	"	2148 1305	3:50	1:26:58	+70:13:05	-0:12	1.02	
51	P1BROOKS2	1200	0.5	1692 1313	4:38	2:57:49	7:33:49	-0:54	1.13	VME CRASH MID-3 min EXPOSURE JUMP IVE.
52	"	"	"	1757 1306	5:00			-0:32	1.11	
53	"	"	"	1727 1294	5:21			-0:11	1.10	
54	"	"	"	1702 1304	5:42	2:57:45	+7:35:45	+0:09	1.10	
55	"	"	"	1685 1305	6:03	2:57:45	+7:35:46	+0:31	1.11	
56	"	"	"	-	6:25			+0:53	1.13	
57	BS1262	1.0	0.5	204	6:41	4:05:19	122:00:40		1.02	
58, 59, 60, 61, 62, 63			"	204					1.02	1.02, 1.02, 1.02, 1.02, 1.02
64	BS582	1.0	0.5	174	7:01	2:00:07	05:05:38	+2:25	1.41	
65, 66, 67, 68, 69, 70, 71			"						1.42	1.42, 1.42, 1.42, 1.42, 1.43, 1.44

446

Telescope: 61"

Iris:

Frame prefix #: SP94G

Day of Week:

Focus: 3500

Humdty: 70% Sheet #: 5

Observers: HICKS
GRUNDY FINK

Date MST/UT: SAT DEC 4.

Tailpiece:

Balance:

Temp O/I: 29/34

Guidepoint:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	hour-angle exp-start	SecZ	Comments: VME crashes, seeing, Moon, clouds, etc.
82	Mz 94r	1200	0.5	15528 1707	8:00	4:25:57	+29:56:36	+1:03	1.05	0.04 DISPLAY NOW TO D
83	"	"	"	13631 1747	8:31	4:25:51	+29:55:03	1:34	1.07	WE PAUSE FOR STAR PASSING THROUGH.
84	"	"	"	12615 1749	8:52	4:25:47	29:54:03	1:55	1.10	SLIGHT HAZE PHOT DOWN 10%
85	"	"	"	11627 1892	9:14	4:25:43	+29:52:59	2:18	1.15	PHOT CONTINUES TO DROP
86	Bs 2141	1.0	0.5	15K	9:39	6:05:44	35:2	1:02	1.03	
87	"								1.03	
88	"									
89	"								1.03	
90	"			14						
91	"	2.0							1.03	
92	Bs 3510	6.0		304	9:49	8:56:49	15:22:33	-1:31	1.12	
93	"	"		274					1.12	
94	"	11		32					1.12	
95	"	"		35					1.11	
96	"	"							1.11	

97, 98

1.11

Frame prefix: FR94G

Telescope: 61"

Sheet #: 1

Observers: GRUNDY, HICKS,
FINK + PTYS.

Date: UT 12/2/1994
(MST Thurs 12/1)

Focus:
Iris:
Tailpiece:
Balance:

Humidity: 52%

Temp:

Guidepoint: (394.4, 406)

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
/	P/Harrington			100k phot	~3:00	2:05:25	-3:13:21	1.38	UT time 20 sec off now
1	"	60	OPEN	100k phot 4.5k peak	~2:57	"	"	1.37	-1:45 Found it.
/	P/Brooks 2	60	OPEN	5k peak 130k phot		2:58:02	7:36:01		Found it.
2	"	"	"						
3	P/Reinuth 2	"	"	256k phot 11k peak	3:12	1:26:45	20:17:25	1.05	-1:56 Found it.
4	Tempel 2	"	"	4k peak 68k phot	3:17	3:56:46	4:38:10	1.70	-3:18 Found it (442,382)
/	Clock set to UT ± 0.5 sec., Dewars topped off								
5	Macholz ^{94R}	60	B/dichr	160k phot 4k peak	3:42	4:36:44	32:19:40	1.39	-3:30 humidity = 55%
/	$\alpha = -.053, \delta = -.045$								
6	"	30	"	~83k phot	4:20	4:36:35	32:17:44	1.25	-2:55 -260 = RA drive scale
7	"	"	"	86k phot		4:36:22	32:15:02	1.10	-1:56
8	"	"	"		6:09	4:36:06	32:12:47	1.03	-1:05
9	"	"	"		6:25	4:36:03	32:12:07	1.02	-1:50 - Jumped ~6:30 UT
10	"	"	"	86k	6:4	4:35:55	32:11:18	1.01	4:35... -1:45
11	"	"	"		7:05	4:35:51	32:10:24	1.00	-1:10
12	"	"	"		7:14	4:35:49	32:09:55	1.00	+1:00 (Transit)
13	Brosselky	"	"	~39k peak 128k phot	7:33	8:59:10	37:41:57	1.54	-4:05 $\alpha = .0237, \delta = .0347$
14	"	"	"	133k phot	7:43	8:59:12	37:42:26	1.49	-3:55

Telescope: 61"

Frame prefix #: FR94G Day of Week: UT 12/2/94.

RA offset:

Focus: 3554 dec Humdty:

Sheet #: 2

Observers: FINK, HICKS, GRADY Date MST/UT: Thurs/Fri

Dec offset:

Tailpiece:

Balance:

Temp O/I:

Wind ~ 2 mph SW

256²

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	NICE Comments (P.A., seeing, Moon, clouds, etc.)
15	Brorrelly	30	B/dichr	~130k ^{phot}	7:52	8:59:13	37:42:47	-3:46	1.43 $\alpha = +.0237$ $\delta = +.0347$
16	"	"	"	~130 ^{phot}	8:02	8:59:14	37:43:05	-3:36	1.39
17	"	"	"		8:12	8:59:15	37:43:24	-3:26	1.34
18	"	"	"		8:21	8:59:16	37:43:43	-3:17	1.31
19	"	"	"		8:32	8:59:17	37:44:04	-3:06	1.27
20	"	"	"		8:40	8:59:17	37:44:21	-2:58	1.24
21	"	"	"		8:51	8:59:18	37:44:45	-2:46	1.21
22	"	"	"		9:00	8:59:19	37:45:03	-2:37	1.18
23	"	"	"		9:10	8:59:20	37:45:23	-2:28	1.16
24	"	"	"		9:20	8:59:21	37:45:46	-2:17	1.14
25	"	"	"		9:30	8:59:22	37:46:06	-2:08	1.12
26	"	"	"		9:41	8:59:23	37:46:32	-1:57	1.10
27	"	"	"		9:50	8:59:23	37:46:58	-1:48	1.08 ← serious guiding trouble (we give up)
28	"	40	DARK						set file is "junk2"
29	"	1	BIAS						

Telescope: 61"

Frame prefix #: FR94G Day of Week: UT 12/3/1994

Observers: GRUNDY, HICKS, Date MST/UT: Dec. (Fri/Sat)
FINK

Iris:

Focus:
Tailpiece:
Balance:

Humdty: 63% Sheet #: 4
Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
45	Reinmuth 2	100	B/dichr	19k phot 550 peak	2:23:20 <small>(header w/ 13 sec off)</small>	1:27:03	20:13:22	-1:39	$\alpha = +0.002, \delta = -0.0029$
46	"	"	"		2:37:30	1:27:03	20:13:17	-1:25	1.08 ← shutter failed to open
47	"	"	"	19.5k ph	3:01:25	1:27:03	20:13:17	-1:01	1.05
					3:18	1:27:03	20:13:18	-1:44	1.04 Jump in East!
48	Reinmuth 2	100	B/dichr		3:24	1:26:58	20:13:15	-1:38	1.03
49	"	"	"		3:40	1:26:58	20:13:15	-1:22	1.03
50	"	"	"		4:00:40	1:26:58	20:13:02	-1:01	1.02
	Brooks 2	200	B/dichr	750 peak 19k Phot				-1:14	1.15
51	"	100	"		4:27	2:57:50	7:35:49	-1:06	1.14 $\alpha = -0.0028, \delta = 0.0$
					4:45	2:57:46	7:35:48	-1:46	1.12 Jump in east!
52	Brooks 2	100	B/dichr.	9k phot 300 PK	4:51:30	2:57:46	7:35:48	-1:42	1.12
53	"	"	"		4:51:12	2:57:46	7:35:46	-1:21	1.10
54	"	"	"	300 peak 10k Phot	5:38	2:57:46	7:35:46	+1:05	1.10
55	"	"	"		6:11	2:57:45	7:35:49	+1:38	1.11
56	"	"	"		6:43	2:57:44	7:35:58	+1:10	1.15

FAGIX

Telescope: 61"

Frame prefix #: FR94G Day of Week: Dec 3, 1994 UT

Observers: FINK, HICKS,
GRUNDY Date MST/UT: Fri/Sat

Iris:

Focus: 3500 (good)

Humdty:

Sheet #: 5

Tailpiece:

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
57	1994 R MACHHOLZ	30	B/dichr	pk = 1300 Phot = 92 k	7:22	4:31:04	31:04:29	+1:15	1.00 ← shutter failed to open
58	"	"	"		7:40	4:30:60	31:03:38	+1:34	1.01 $\dot{\alpha} = -.050$ $\dot{\delta} = -.0454$
59	"	"	"		EXACTLY 8:00:00 UT	4:30:55.5	31:02:44	+1:54	1.02 (clock in VME is ~11 seconds slow)
60	"	"	"		8:19	4:30:52	31:01:51	+1:13	1.04
61	Brorrelly	"	"	4 k pk 135 k phot	8:31	9:01:41	38:33:45	-3:05	1.27 $\dot{\alpha} = +.0232$
62	"	"	"	140 k phot	8:50	9:01:42	38:34:24	-2:46	1.21 $\dot{\delta} = +.0347$
63	"	"	"		9:09	9:01:44	38:35:04		1.16
64	"	"	"		9:35	9:01:46	38:36:02	-2:01	1.11
65	"	40	R	Phot = Pk = sat.	EXACT 9:44:00	9:01:50	38:38:14	-1:52	1.09 Focus → 3450
66	"	25	R	Phot = 566 k Ph = 33 k	9:47:00			-1:49	1.09
67	"	"	"		9:49	9:01:50.8	38:38:25		1.08
68	"	"	"	pk = 30 k Ph = 569 k	9:51				1.08
69	"	"	"		9:53			-1:43	1.08
70	"	"	"		9:55				1.08
71	"	"	"		9:57	9:01:52	38:38:41	-1:39	1.07

Telescope: 61" Day of Week: Dec. 3, 1994

Frame prefix #: FR94G

Observers: GRUNDY, HICKS,
FINK

Date MST/UT: FRI/SAT

Iris:

Focus:

Humdty:

Sheet #: 6

Tailpiece:

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
72	LAN 76; 280, 281	15	R	$P_h = 33k$ $P_h = 207k$	10:05	8:21:14	14:45:08	-0:50	1.07
73	"	"	"		10:07			-0:49	"
74	"	"	"						
75	DARK	25	/		10:08:40				
76	BIAS	1	/		10:10				
77	SKY FLAT	300	R		10:17	8:21:15	+2000.0 16:06:25		1.05
78	"	"	"			8:21:15	16:07:12		1.05
79	"	"	"			8:21:15	16:08:39		1.05
80	"	"	"		10:37	8:21:15	16:11:47		1.04
81	"	"	"		10:44	8:21:25.6	+16:11:48		1.04
82	"	"	"		10:51	8:21:25.2	+16:11:14		1.04
83	"	"	"		10:57	8:21:31	+16:11:55		1.04
84	"	"	"		11:04	8:21:47	+16:10:55		1.04
X	P/MACHO 2		NOT FOUND			P/HARTLEY	60 open	4k peak 78k phot	convolved with star upper limit
X	P/KOHANTEK		NOT FOUND						

