

E Telescope: 61"

Iris: 302

Frame prefix #: SP92

Day of Week: Sun/Mon

Focus: 3670_{ax} Humdty: 50% Sheet #: 1

Observers: Hoffman, Lemmon

Date MST/UT: 13/14 12/13

Balance: Temp O/I:

Grundy

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
1	FIXED? NOISE	1.0	DARK			(on zenith)			Both computers in same power outlet
2	BS 7994	2.0	DICK						1.40
3									1.40
4									1.40
5							-11:36:57		1.40
6						20 52 40	20 52 40	-0:16	1.40
7	BS 283	1.0							1.51
8						21:41:8	-14:5:30	-0:57:0	1.51
9								-0:57:10	1.51
10									1.51
11									1.51
12	SAO 141378	10.0							1.53
13						21:21:25	-16:17:01	-0:31:5	1.53
14									1.53
15									1.53

Telescope: 61" Day of Week: Sun/Mon

Iris:

Humdty: Sheet #: 2

Focus: Tailpiece:
Balance: Temp 0/I:

Observers: Hoffman, Lemma, Date MST/UT: 3/14
Grandy

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.)
16	Titan	10.0	DICHR			21:18:45	-16 43:25	-0:19:33	1.54
17									1.54
18					8:57:20			-0:18:39	1.53
19					8:58:00				1.53
20	SAD 164338	10.0			9:00:20	21:21:25	-16 19:0	-0:18:1	1.52
21		10.0			9:01:22				1.52
22					9:02:03				1.52
23									1.52
24	Titan	10.0			9:6:18				1.53
25					9 7 12				1.53
26					9 8 0			-0:17:30 7:30	1.53
27					9 9 0				1.53
28					9:9:54				1.53
29	SAD 164338	10.0			9:11:0				1.52
30	"	"							1.52

only 37

19

23

27

Telescope: 61"

Iris:

Frame prefix #: SP92D Day of Week: Sun/Mon

Humidity: Sheet #: 3

Observers: Hoffman, Lemmo-Date MST/UT: 12/14

Balance: Temp O/I:

Grundy

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.)
30	SAO 164338	10s	DICHR						1.52
31					9:15:0			-0:3:17	1.52
32					9:16:05				1.52
33								-0:1:13	1.52
34	Titan	10s			9:21:04			+0:5:37	1.53
35					9:21:58				1.53
36									1.53
37					9:23:40				1.53
38	SAO 164338	10s			9:27:50				1.52
39									1.52
40					9:30:00				1.52
41					9:30:40				1.52
42	SAO 164338 8544	1s				22:26:10	-16:47:30		1.57
43									1.57
44									1.57

Telescope: 61"

Iris:

Frame prefix #: SP92E Day of Week: MON/TUES Focus: 3840 Humdty: 58 Sheet #: 5

Tailpiece:

Balance: Temp O/I: 55/60
57/59

Observers: Lemmon et al, Date MST/UT: 14/15 13/14

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.)
56	Shoe-Leg	60	1.0	0 4077 3 500					1.58? ↗
57	"	300	"	14906 2008	3:40	11:18:33	+54:33:16	+4:30	1.50 STRANGE NOISE
58	"	300	"	15236 2584	3:45			4:35	1.62 ↘
59	"	300	0.5	1582 1079					1.66
60	"	300	"	10516 1562	3:58			4:46	1.60
61	"	600	"	14480 2056				4:51	1.72
62	"	600	"	21868 2080	4:15			5:02	1.70 E 294
63	"	600	"	21313 2688	4:26			5:13	1.87
64	"	600	"	26416 2188	4:37			5:24	1.95
65	"	600	"	19261 2242	4:47			5:34	2.04 2.10 END
66	BS4486	2.0	1.0	18K		11:38:31	45:08:38	5:35	2.20 Double star comp. to south west
67	"	"	"	18.7					2.26
68	"	3.0	"	28K					2.27
69	"	"	"	29K					2.28
70	"	"	"						2.29

Telescope: 61"

Iris: 3676 octal

6

Frame prefix #: SP92E

Day of Week: MON NYC

Humdty: 58 Sheet #:

Observers: GRANDY PLUS

Date MST/UT: 14/15

13/14

Temp O/I: 54/50

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.)
71	BS 4486	3.0	1.0	27K					2.31
72	"	"	"	24K					2.52
73	BS 5968	1.0	1.0	26K	5:19	16:00:43	33:18:33	1:25	1.05
74	"	1.0	"	28K					1.05
75	"	"	"	26K					1.05
76	"	"	"	27K					1.05
77	"	"	"	31K					1.05
78	"	"	"	34K					1.06
79	BS 6629	0.1	1.0	10K		17:47:24	2:41:21	-0:11	1.15
80	"	0.2	"	16K				-0:10	1.15
81	"	0.3	"	22K					1.15
82	"	"	"						1.15

Telescope: 61"

Iris:

Focus: 3700^{actual} 35/

Humidity: 61 Sheet #: 7

Filterpiece:

Balance: Temp 0/I: 54/56

Frame prefix #: SP92E Day of Week: M/T

Observers: Date MST/UT:

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.)
83	B57906	.1	DICHP						1.05
84		.2						-0:17:50	1.05
85					8:15:00				1.05
86									1.05
87								-0:15:05	1.05
88	SX0164338	10			8:23:44			-0:20:30	1.56
89					8:25:10				1.56
90		8							1.56
91									1.56
92					8:28:15				1.56
93	Titan	10							1.56
94					8:34:10				1.56
95					8:35:05				1.55
96					8:36:10				1.55
97									1.55

Telescope: 61"

Iris:

Frame prefix #: SP9ZE

Day of Week: M/T

Focus: Tailpiece:

Humidity:

Sheet #: 8

Observers:

Date MST/UT:

Balance:

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.)
98	SAO 164338	55	DICHR		8:39:40				1.54
99									1.54
100					8:41:35				1.54
101					8:42:30				1.53
102					8:43:10				1.53
103	Titan	105							1.54
104					8:46:40				1.54
105					8:47:30				1.54
106					8:48:30				1.54
107					8:49:20				1.54
108	SAO 164338	6			8:52:00			-0:22:15	1.53
109									1.52
110					8:53:45				1.52
111									1.52
112									1.52

450 371

Telescope: 61"

Iris:

Frame prefix #: D192E Day of Week: Mon / Tue

Humidity: Sheet #: |

Focus: Tailpiece:

Observers: Hofmann + Date MST/UT: 13/14

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.)
001	SAC 186012	5.0	1J		Focus test	3700-4000 by 10			Focus 3740 ST MST GP 122 398
002	ELSA	10.0	1J			17:59:54	-22:57:43		
003	"	"	"					1:20	1.42 CROWDED STAR FIELD
004	"	10.0	"						1.93
005	"	"	"						1.94
006	"	"	"					1.26	1.95 375 525 151 300 699 400
007	"	"	"						1.95
008	"	"	"						1.96
009	"	"	"						1.96
010	"	"	"					1:30	1.97
011	"	"	"	P = 2900					1.98
012	"	"	"	Phot = 65000					1.98
013	"	"	"						1.99
014	"	"	"						1.99
015	"	"	"						2.00

Telescope: 61"

Iris: 302

Frame prefix #: FR92E

Day of Week: Sun/Mon

Humidity: 50% Sheet #: 1

Observers: Hahnemann, Grundy
Lemmon

Date MST/UT: 13/14 July 1992

Balance: 24.6
(spectrograph on)

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	SEC Z Comments (P.A., seeing, Moon, clouds, etc.)
1	OLYMPIA 10s		VTR	wide field					nearly full
2	"	"		wide field					dark slide keeps
3	"	"		wide field	3:53	19:59:11	7:54	-4:4	sliding in. we taped it out.
4	SAO 125341	.2		wide field	3:57	20:0:2	7:14:2	-3:58	shutter stuck open?
5	"	.4		wide field	4:01	"	"	3:56	
6	Gudy	20		sky=13k	4:30	20:0:08	0:45:18	-3:28	1.89 wind gusts to 25 MPH
7	"	"			4:33				1.87
8	"	"			4:34			-3:24	1.86
9	COMP 11	0.2		29k peak	4:38	20:3:29	0:51:38	-3:23	1.85
10	SAO 125397				4:39				1.84
11	OLYMPIA 10s				4:40				1.61(?)
12	"	"			4:43	19:59:11.7	7:7:53	-3:13	1.60
13	"	"			4:44			-3:12	1.60
14	COMP 1	0.4			4:46	20:0:22	7:14:2	-3:12	1.59
15	"	"			4:47			-3:11	1.58

512
292
" "
" "

Telescope: 61"

Frame prefix #: FR92E Day of Week: Sun/Mon

Observers: Hoffman, Gandy, Lemmon Date MST/UT: 13/14

Iris:

Focus: Humdty: 63% Sheet #: 2

Tailpiece:

Balance: 442(?) Temp O/I: 45/47 °F

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Sec Σ Comments (P.A., seeing, Moon, clouds, etc.)
16	GUDY	20s	V+R		4:49	20:0:8.2	0:45:17	-3:09	1.72 \uparrow
17	"	"			4:52			-3:06	1.70 no clouds
18	"	"			4:53			-3:05	1.69
19	COMP 11	0.2s			4:54.5	20:3:29	0:51:37	-3:07	1.70
20	"	"			4:55				1.70
21	1264 LETABA	10s			5:08	22:11:5	25:50:13	-5:00	2.34
22	"	"			5:09			-4:59	2.32
23	"	"			5:10				2.30(?)
24	COMP 4	.25		15k peak 83k phot	5:16	22:13:49	25:40:1	-4:55	2.25 (COMP 3 is double?)
25	SAO 90342	"			5:17			-4:54	2.23
26	OLYMPIA	10s		16000 phot	5:20	19:59:12	7:7:53	-2:37	1.40 \swarrow Jumped in East
27	"	"			5:25			-2:32	1.38 \swarrow (guided) VME crashed
28	"	"			5:26			-2:30	1.37
29	COMP 1	0.4			5:28	20:02.1	7:14:2	-2:30	1.37
30	"	"			5:29			-2:29	1.36

Telescope: 61"

Iris: 307 (?)

Frame prefix #: FR92E

Day of Week: Sun/Mon

Humdty: Sheet #: 3

Observers: Hoffman +

Date MST/UT: 13/14 July 92

Balance:
 (Spectrograph on)

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	Hour-angle exp-start	Sec Z	Comments
31	GUDY	20s	VTR		5:32	20:10:8	0:45:17	-2:26	1.46	
32	"	"			5:34			-2:24	1.45	
33	"	"			5:35			-2:23	1.44	
34	COMP 11	0.2s			5:36	20:3:29	0:51:37	-2:25	1.45	
35	"	"			5:37			-2:24	1.45	
36	LETABA	10s		15k peak 114k phot	5:40	22:11:5	25:50:12	-4:29	1.89	(near goober)
37	"	"			5:45	22:11:6.8	25:50:10	-4:24	1.84	← guided ← VME crashed again
38	"	"			5:46			-4:23	1.83	
39	COMP 4	0.2s			5:47			-4:24	1.85	
40	"	"			5:49	22:13:49	25:10:06		1.83	← shutter failed to open
41	SA-61-225	1.0s			5:58	17:2:0	29:45:28	+1:59	1.03	
42	"	"			5:59			+1:00	1.03	
43	OLYMPIA	10s			6:02	19:59:6	7:7:22	-1:54	1.25	
44	"	"			6:04			-1:53	1.24	← Jumped in East
45	"	"	✓		6:05			-1:51	1.24	

Telescope: 61"
 Frame prefix #: FR92E Day of Week: Sun/Mon
 Observers: Hoffmann + Date MST/UT: 13/14

Iris:
 Focus:
 Tailpiece:
 Balance:
 Humdty: 67% Sheet #: 4
 Temp O/I: 45/47 °F

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	Hour-angle exp-start	sec z	Comments
46	COMP 1	0.4	V+R		6:06			-1:51	1.24	
47	3A0 125341	"			6:07	20:01:2.1	7:14:2	-1:50	1.24	← jumped in east
48	GUDY	20s		36k peak 125k phot	6:14	19:59:59.3	0:45:21	-1:43	1.30	← need to guide
49	"	"			6:16			-1:42	1.30	
50	"	"			6:17			-1:40	1.30	
51	COMP 11	0.2			6:18			-1:43	1.30	
52	"	"			6:19	20:3:29.3	0:51:37	-1:42	1.30	← jumped in East
53	LETABA	10s			6:23	22:11:6.9	25:50:19	-3:46	1.53	
54	"	"			6:24			-3:44	1.52	
55	"	"			6:26			-3:42	1.51	
56	COMP 4	0.25			6:27			-3:44	1.52	
57	"	"			6:28	22:13:49.5	25:40:1	-3:43	1.51	
58	OLY	10s			6:32	19:59:6	7:7:21	-1:25	1.18	
59	"	"			6:34			-1:23	1.18	
60	"	"	↘		6:35			-1:22	1.17	

Telescope: 6"

Frame prefix #: FR92E

Day of Week: Sun/Mon

Observers: Hoffmann +

Date MST/UT: 13/14

Humidity: 69%

Sheet #: 5

Temp: 46/44 °F

Temp: 1/0

is FITS iris
in second
tailpiece:
Balance:
needs to

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Sec z	Comments
61	COMP 1	0.4	V+R		6:36	20:01:2	7:14:2	-1:21	1.17	
62	"	"			6:37			-1:21	1.17	
63	GUDY	20s			6:39	19:59:59.3	0:45:21	-1:19	1.25	
64	"	"			6:40.5			-1:17	1.24	
65	"	"			6:42			-1:16	1.24	
66	COMP 11	0.2			6:43	20:3:29.3	0:51:37	-1:18	1.24	
67	"	"			6:44			-1:17	1.24	Jumped in East
68	LETABA	10s			6:47	22:11:7	25:50:10	-3:22	1.39	
69	"	"			6:48			-3:20	1.39	
70	"	"			6:49			-3:19	1.38	
71	COMP 4	0.25			6:50			-3:21	1.38	
72	"	"		26k peak	6:51	22:13:49.4	25:40:1	-3:20	1.39/1.38	← computer keeps changing its mind
73	OLY	10s		32k peak 172k phot	6:54	19:59:16	7:7:22	-1:02	1.15	← needs guiding
74	"	"			6:57	19:59:2.6	7:6:22	-1:59	1.14	
75	"	"			6:58			-1:58	1.14	

Telescope: 61" Day of Week: SUN/MON

Iris: 6

Frame prefix #: FR92E Humidity: Sheet #: Focus: Tailpiece: Balance: Temp O/I: Comments (P.A., seeing, Moon, clouds, etc.)

Observers: Hoffman + Date MST/UT: 13/14

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST/UT	RA set	Dec set	Hour-angle exp-start	Comments
76	COMP 1	0.4	VTR		6:59	20:0:21	7:14:2	-1:58	1.14
77	"	"			7:00			-1:57	1.14
78	GU DY	20s			7:02	19:59:58.3	0:45:20.8	-1:55	1.21
79	"	"			7:04			-1:53.5	1.21
80	"	"			7:05				1.21
81	COMP 11	0.2			7:06	20:3:29.3	0:51:37	-1:54.5	1.21
82	"	"			7:07			-1:53	1.21
83	LETABA	10s			7:09	22:11:06.9	+25:50:10	-2:59	1.29
84	"	"			7:10			-2:57	1.29
85	"	"			7:11			-2:56	1.28
86	COMP 4	0.25			7:12			-2:58	1.29
87	"	"			7:14	22:13:49	25:40:11	-2:57	1.29
88	OLY	10s			7:16	19:59:2.6	7:6:21.5	-1:40	1.12
89	"	"			7:17			-1:39	1.12
90	"	"			7:18			-1:38	1.12

Telescope: 61"

Frame prefix #: FR92E

Day of Week: Sun/Mon

Observers: Hoffman +

Date MST/UT: 13/14 July '92

Iris:

Focus:

Tailpiece:

Balance:

Humdty: Sheet #:

Temp O/I:

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Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start	RA set	Dec set	Hour-angle exp-start	secZ (P.A., seeing, Moon)	Comments (streaked, distanded)
91	COMP 1	0.4s	VTR		7:20.5	20:0:2.1	+7:14:2	-1:37	1.12	←
92	"	"			7:21			-1:36	1.12	
93	GUDY	20s		35k peak 135k phot	7:23	19:59:59.3	0:45:21	-1:34	1.19	
94	"	"			7:26	19:59:54.4	0:45:56	-1:31	1.19	← guided
95	"	"			7:27			-1:30	1.18	
96	COMP 11	0.2s			7:29	20:3:29.3	0:51:38	-1:32	1.18	← (streaked discarded)
97	"	"			7:30			-1:31	1.18	
98	LETABA	10s		26k peak 129k phot	7:32	22:11:16.9	25:50:10	-2:36	1.21	
99	"	"			7:35	22:11:7.6	25:50:36	-2:34	1.21	← guided
100	"	"			7:36			-2:33	1.20	
101	COMP 4	0.25s			7:37	22:13:49.4	25:40:1	-2:34	1.21	
102	"	"			7:38			-2:33	1.21	
103	OLY	10s			7:41	19:59:2.7	7:6:22	-1:5	1.11	
104	"	"			7:42			-1:4	1.11	
105	"	"	↓		7:43			-1:3	1.11	

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Telescope: 61"

Frame prefix #: FR92E

Day of Week: Sun/Mon

Observers: Hoffmann +

Date MST/UT: 13/14 July '92

Iris:

Humdty:

Sheet #:

Focus:

Temp O/I:

Tailpiece:

Balance:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	Hour-angle exp-start	Sec Z	Comments
106	COMP 1	0.4	V+R		7:44	20:0:2.1	7:14:2.1	-113	1.11	
107	"	"			7:45			-112	1.11	
108	GUDY	20s			7:47	19:59:54.5	0:45:56	-110	1.18	
109	"	"			7:48			-109	1.18	
110	"	"			7:49.5			-107	1.18	
111	COMP 11	0.2s			7:51	20:13:29.3	0:51:38	-110	1.17	
112	"	"			7:52			-109	1.17	
113	LETABA	10s			7:54	22:11:7.7	25:50:35	-2:14	1.15	
114	"	"			7:57			-2:11	1.15	image streaked (discarded)
115	"	"			7:58			-2:10	1.14	(was jumping in East)
116	COMP 4	0.25			7:59.5	22:13:49.5	25:40:11	-2:11.5	1.15	
117	"	"			8:00			-2:11	1.15	
118	FLAT	0.2		24k						Variac = 59
119	"	"		24k						"
120	"	"	X	24k						"

650

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Telescope: 61"

Frame prefix #: FR92E Day of Week: SUN/MON

Observers: Hoffmann + Date MST/UT: 13/14 July '92

Iris:

Focus: Tailpiece:
Balance:

Humdty: Sheet #:

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
121	FLAT	0.3	VTR	35k	8:11				Variae = 59
122	"	"			8:11.5				" ← dark slide slid in ← 901
123	OLY	10s			9:59	19:59:13	7:16:22	+2:03	1.27 ← upper left corner
124	"	"			10:02	19:58:53	7:15:14	+2:06	1.28 ← guided
125	"	"			10:04			+2:08	1.29 ← collected
126	COMP 1	0.4		22k peak 181k phot	10:07	19:59:57	7:12:42	+2:10	1.29 ← guided
127	"	"			10:07.5			+2:11	1.29
128	GUDY	20s			10:13	19:59:44	0:46:11	+2:17	1.42 ← guided
129	"	"			10:15			+2:18.5	1.42
130	"	"			10:16			+2:20	1.43
131	COMP 11	0.2			10:20	20:13:23	0:15:32	+2:20	1.43 ← guided
132	"	"			10:20.5			+2:20.5	1.43
133	LETABA	10s		17k peak 124k phot	10:23	22:11:08	25:50:36	0:15	1.01 ← Guided
134	"	"			10:26	22:10:59	25:50:58	0:18	1.01
135	"	"			10:27			0:19	1.01

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Telescope: 61"

Frame prefix #: FR92E

Day of Week: SUN/MON

Focus: 3670 octed Humdty: 61% Sheet #:

Observers: HOFFMANN et al.

Date MST/UT: 13/14 JULY '92

Tailpiece:

Balance: Temp ~~42~~ 46/44 °F
1/0

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Sec Z	Comments
136	COMP 4	0.25	VTR		10:29	22:13:49.5	25:40:1	+1:19	1.01	
137	"	"			10:30.5			+1:20	1.01	
138	OLY	10s			10:32.5	19:58:53.3	7:5:5	+2:37	1.40	
139	"	"			10:34			+2:39	1.41	
140	"	"			10:35			+2:40	1.41	
141	COMP 1	0.4			10:36	19:59:56.6	7:12:42	+2:40	1.41	
142	"	"			10:37			+2:40.5	1.41	
143	GUDY	20s			10:39.5	19:59:44.6	0:46:11	+2:43	1.55	
144	"	"			10:41			2:44.5	1.55	
145	"	"			10:42			2:46	1.56	
146	COMP 11	0.2s			10:43	20:3:23.5	0:50:32	2:43	1.55	
147	"	"		20k peak	10:44			2:44.5	1.55	
148	LETABA	10s			10:46.5	22:10:58.9	25:50:57	+1:39	1.02	(twilight is visible in east)
149	"	"			10:48			+1:40.5	1.02	
150	"	"			10:49			+1:41.5	1.02	

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Telescope: 61"

Iris:

Sheet #: 11

Frame prefix #: FR9ZE

Day of Week: SUN/MON

Humdty:
Tailpiece:
Balance:

Date MST/UT: 13/14 JULY '92

Observers: HOFFMANN
et al.

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	sec Z	Comments (P.A., seeing, Moon, clouds, etc.)
151	COMP 4	0.25	V+R		10:50	22:13:49.4	25:40:01	+1:40	1.02	
152	"	"			10:51			+1:40.5	1.02	
153	OLY	10s			10:53	19:58:53.3	7:5:4	+2:57	1.50	
154	"	"			10:54			+2:59	1.51	
155	"	"			10:55.5			+3:00	1.52	
156	COMP 1	0.4s			10:56.5	19:59:56.6	7:12:42	+3:00	1.52	
157	"	"			10:57			+3:01	1.52	
158	GUDY	20s			10:59	19:59:44.6	0:46:11	+3:02	1.67	
159	"	"			11:00			3:04	1.68	
160	"	"			11:01			3:05	1.69	
161	COMP 11	0.2s			11:02.5	20:3:23.5	0:50:32	3:02.5	1.67	
162	"	"			11:03			3:03	1.68	← Plus space junk trail
163	LETABA	10s			11:05	22:10:58.9	25:50:58	+1:57	1.03	
164	"	"			11:06			:59	1.03	
165	"	"			11:07			+1:59.5	1.03	

Telescope: 61"

Iris:

Sheet #: 12

Frame prefix #: FR92E

Humidity: Focus: Tailpiece: Balance:

Day of Week: SUN/MON

Observers: Hoffmann et al. Date MST/UT: 13/14 JULY 1992

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST/UT	RA set	Dec set	Hour-angle exp-start (P.A., seeing, Moon clouds, etc.)	Sec Z	Comments
166	COMP 4	0.25	V+R		11:08	22:13:49.4	25:40:10	1:58	1.03	DAWNING
167	"	")		11:09			1:59	1.03	
168	OLYM 10s				11:11	19:58:53.3	7:5:4	3:15.5	1.62	
169	"	"			11:12			3:17	1.63	
170	"	"			11:13			3:18	1.64	
171	COMP 1	0.4			11:15	19:59:56.6	7:12:42	3:18.5	1.64	
172	"	"			11:16			3:19.5	1.65	
173	GUDY	20s			11:17	19:59:44.5	0:46:11	3:21	1.83	sky level ~ 10k
174	"	"			11:19			3:23	1.84	
175	"	"			11:20			3:24	1.86	
176	COMP 11	0.2s			11:22	20:3:23.5	0:50:32	3:22.5	1.84	
177	"	"			11:23.5			3:23.5	1.85	
178	LETABA	10s			11:26	22:10:58.9	25:50:58	1:18	1.05	
179	"	"			11:27			1:19	1.05	
180	"	"			11:28			1:20	1.06	

Telescope: 6"

Iris:

14

Frame prefix #: FR92E Day of Week: AMON/TUES

Focus: 3676 Oct Humdty: Sheet #:

Observers: Hicks, Hoffmann Date MST/UT: 13/14 JULY 92

Tailpiece:

Balance: Temp O/I:

Gandy, Lemmon

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	Hour-angle exp-start	Sec Z (P.A., seeing, Moon, clouds, etc.)	Comments
183	182 ELSA	30	6/dich	SKY=10k	5:35	17:59:57	-22:57:35	-0:16	1.77	
184	2014 VAS	20	V+R	SKY=5k	9:02				?	
185	"	"			9:08				?	
186	"	"			9:09	23:52:27	24:38:28	-2:36	1.22	
187	COMP 7	0.25		48k peak 320k phot	9:12	23:49:7	23:22:41	-2:30	1.21	
188	SAD 91521	"		39k peak	9:13				1.20	
189	2078 Nanjing	10s		8k peak 55k phot	9:19			-0:42	1.13	close to goober ← guided
190	"	20s			9:22	22:8:29	6:59:33	-0:37.5	1.12	
191	"	"			9:24			-0:37	1.12	
192	COMP 9 SAO 127308	0.1			9:26			-1:34	1.13	
193	"	0.2			9:27.5	22:7:6	5:55:22	-1:32	1.13	
194	VAS	20s			9:30			-2:15	1.16	← guided star to
195	"	"			9:33.5	23:52:30	24:37:58	-2:12	1.15	← jumped in endpoint
196	"	"			9:34.5			-2:11	1.15	← jumped in east
197	COMP 7	0.15			9:36	23:49:7.1	23:22:40	-2:06	1.15	
198	"	"		28k peak	9:36.5			-2:05.5	1.14	

Telescope: 61"

Frame prefix #: FR92E Day of Week: MON/TUES

Observers: Hoffman + Date MST/UT: 13/14 JULY '92

Iris: DCTAL Focus: 3700 Humidity: 64% Sheet #: 15

Tailpiece: Temp O/I: 52/55 OF
Balance: Spectrograph on, weights in middle

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Sec Z (P.A., seeing, Moon clips, etc.)	Comments
199	NANKING	20s	V+R		9:39.5	22:8:30	6:59:33	-0:22	1,11	
200	"	"			9:41			-0:20	1,11	
201	"	"			9:42.5			-0:19	1,11	
202	COMP 9	0.2s			9:44	22:7:6.1	5:55:22	-0:15.5	1,12	
203	"	"		17k peak	9:45			-0:15	1,12	
204	SA-61-225	1.0s		23k peak	9:51	17:2:4.6	29:45:29	+4:56	2,13	← Guided
205	"	"			9:52			+4:57	2,15	
206	"	"			9:53			+4:58	2,16	
207	VASIL	20s			9:56.5	23:52:30.4	24:37:58	-1:49	1,10	
208	"	"			9:58			-1:47.5	1,10	← Jumped in East
209	"	"			9:59			-1:46	1,10	
210	COMP 7	0.15			10:00	23:49:7.1	23:22:41	-1:42	1,10	
211	"	"			10:01			-1:41	1,09	
212	NANKING	20s		16k Peak	10:03.5	22:8:29.9	6:59:33	+1:02	1,11	
213	"	"	↓		10:05			+1:03.5	1,11	

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Telescope: 61"

Iris:

Frame prefix #: FR92E Day of Week: MON/TUES

Humdty: Tailpiece: Balance:

Sheet #: 17
Temp O/I:

Observers: Hoffmann + Date MST/UT: 13/14

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	SECZ	Comments (P.A., seeing, Moon, Clouds, etc.)
227	VAS...	20s	V+R		10:26	23:52:30	24:37:58	-1:19	1.06	
228	"	30s			10:28			-1:17	1.06	
229	"	"			10:30			-1:15.5	1.05	
230	COMP 7	0.15			10:31	23:49:7.1	23:22:40	-1:11	1.05	
231	"	"		26k peak	10:32			-1:10	1.05	
232	NAN...	20			10:35	22:8:29.9	6:59:33	+1:33	1.12	
233	"	"			10:36			:35	1.12	
234	"	"			10:37			:36	1.12	
235	COMP 9	0.2			10:38.5	22:7:6.1	5:55:22	:39	1.13	
236	"	"		20k peak	10:39			:39.5	1.13	
237	VAS...	30s			10:42	23:52:30.4	24:37:58	-1:03	1.04	
238	"	"			10:43.5			-1:02	1.04	
239	"	"			10:45			-1:00	1.04	
240	COMP 7	0.15			10:46	23:49:7.7	23:22:41	-1:55.5	1.04	
241	"	"	^		10:47			-1:55	1.04	

Telescope: 6"

Iris:

Frame prefix #: FR92E Day of Week: ENW

Humdty:

Tailpiece:

Observers: Hoffman + Date MST/UT: 13/14

Temp O/I:

Sheet #: 18

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start	RA set	Dec set	Hour-angle exp-start	Sec ζ (P.A., seeing, Moon, stars , etc.)	Comments
242	NAN...	20	V+R	15k peak 101k phot	10:49.5	22:8:30	6:59:33	+1:48	1.13	← guide
243	"	"			10:52	22:8:27.5	7:0:47	+1:50.5	1.13	
244	"	"			10:53			+1:52	1.13	
245	COMP9	0.2			10:55	22:7:6.1	5:55:22	+1:55	1.15	
246	"	"			10:57			1:58	1.15	← VME CRASHED
247	VAS...	30			10:59.5	23:52:30.4	24:37:58	-1:46	1.03	
248	"	"			11:01			-1:44	1.02	
249	"	"			11:02.5			-1:43	1.02	
250	COMP 7	0.15			11:04	23:49:7.1	23:22:41	-1:38	1.02	
251	"	"			11:05			-1:37	1.02	
252	NAN...	20s			11:07	22:8:27.5	7:0:47	+1:06	1.15	
253	"	"			11:08.5			+1:07.5	1.15	
254	"	"			11:09.5			+1:08.5	1.15	1.15 → 1.16
255	COMP9	0.2			11:11	22:7:6.1	5:55:22	+1:11	1.17	
256	"	"		17k Peak	11:12			+1:12	1.17	

Telescope: 6"

Iris:

Frame prefix #: FR92E Day of Week: Tue / Wed Focus: 3870 Humdty: Sheet #: 20

Observers: Date MST/UT: 14/15 Tailpiece: Balance: 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.)
262	Shoe-levy	10	V	17k peak 296k phot	4:28	11:24:06	52:00:00		1.92
263	"	10	"	18k peak 330k phot	4:31			+5:19	1.94
264	"	10	"	21k peak 320k phot	4:32				1.95
265	"	10	R	16k peak 393 phot	4:35			5:23	1.97
266	"	10	"		4:36			5:24	1.98
267	"	10	"		4:37				1.99
268	"	20	IJ	17k 570 phot	4:39			5:27	2.01
269	"	20	"	17k 580 phot	4:40			5:28	2.02
270	"	20	IJ	17k 500 phot	4:41			5:29	2.03
271	FLAT	0.1	IJ	30k		FLAT	FIELD		2.37
272	"	0.1	IJ						2.37
273	"	0.4	R	29k					2.37
274	"	0.4	R						2.37
275	"	1.0	V	34k					2.37
276	"	1.0	V						2.37