

Telescope: 61"

Frame prefix #: SP923 Day of Week: Thur/Fri RA offset:

Humdty: 61 Sheet #: 3

Observers: Fink, Hoffman Date MST/UT: 27/28 Dec offset:

Focus: Tailpiece:

Temp O/I: 30/40

Grundy Sees' and Hicks

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.)
X						GP (383, 395)		⇒ object Nov 398 (to avoid hot spot)	
016	MUELLER	60	0.5		2:55	1:42:56	0:38:11	4:17	2.71
017	"	300	"		2:57				7.80
018	"	300	"		3:07				2.91
019	"	300	"		3:08			4:31	3.08 NOISE 20
020	"	300	"	PK=222 SKY 1000	3:13				3.28
021	B5560	3.0	"		3:22	1:55:31	1:49:41	4:33	3.03
022	"	"	"		3:23				3.05
023	"	"	"		3:24				3.08
024	"	"	"		3:25				3.10
025	"	"	"		3:26				3.13
026	"	"	"		3:27				3.16
027	"	"	"		3:27				3.19
028	"	"	"	PK 21000 4000	3:29				3.24
029	"	"	"		3:30				3.27

SPECTRA

Telescope: 61"

1

Frame prefix #: SP92B Day of Week: SUN/MON RA offset:

Focus: Humdty: Sheet #:

Observers: Fink, Hoffmann, Hicks Date MST/UT: 23/24 Dec offset:

Tailpiece: 34.3 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.)
X	GUIDEPPOINT			(300.5 395)		→ object 2t row 306			(to avoid hot spot)
001	SAO 042405	30	0.5	15K / 1K	5:00	8:14:28	43:32:34		
002	"	60	"	23 k / 1 k					1.03
003	"	60	"	25 k / 1k					1.63
004	II H24	10	"	48K	5:09	8:52:48	37:06:25		1.02 (Noise 292m)
005	"	7.0	"	27k	5:15				1.02
006	"	7.0	"						1.02
007	SAO 6111	7.0	"	27k					1.02
008	II H 24	300	"	600 counts	5:22	8:58:04	37:07:17		1.01 noise 2100 counts
009	"	600	"		5:37				1.01
010	LT6	300	"	2900 counts		9:16:24	34:27:56		1.01
011	"	600	"	2700					1.00 noise down to 25
012	"	600	"						1.00 30
013	"	600	"						1.00
014	DARK	10	"						1.00
015	"	10	"						

WR06 NAME actually SAO 6111

Telescope:

Frame prefix #: *SP7A* Day of Week: *Th / F* RA offset: Humdty: Sheet #: *4*

Observers: *Holdman, Frank* Date MST/UT: *2/28* Focus: Tailpiece: Balance: Temp O/I:

Grundy, Hicks *Seas*

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.)
030	B5560	3.0	0.5	PK=11060	3:30				3.30
031	B5660	1.0	0.5	PK=34K	3:40	2:16:40	34:19:03		1.75
032	"	"	"	PK=29	3:41				1.76
033	"	"	"	PK=25	3:42				1.77
034	"	"	"	PK=30K					1.78
035	"	0.5	"	PK=13K	3:44				1.79
036	"	"	"	13K					1.79
037	"	"	"	10K					1.81
038	B5718	0.2	1.0	PK=6K	3:56	2:27:49	8:25:54	4:31	2.59 STD
039	"	"	"	PK=6K	3:57				2.62
040	"	0.9	"	PK=25K					2.64 ← Something happened!
041	"	"	"	PK=25K					2.68 ←
042	"	"	"	PK=11K	4:01				2.73
043	B51855	6.4	1.0	PK=8K	4:09	5:31:31	7:10:17		1.46 STD
044	"	"	"	PK=7K					1.46

- pins good for ~ 12000

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:
Tailpiece:
Balance:

Humdty:

Sheet #:

Observers:

Date MST/UT:

Dec offset:

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.)
060	Nm	60	0.25					-4:45	1.70
061	"	60	0.25					-4:43	1.68 shut off at
062	"	30	0.25					-4:41	1.67 good
063	"	11	"					-4:39	1.66 good
064	"	10	"	set/1100				-4:38	1.66 good
065	"	11	"	set/1100				-4:37	1.65 good
066	"	11	"	set/1100					1.65 good
067	"	5	"	set/1000				-4:34	1.63 good
068	"	11	"	set/1000					1.63 good
069	"	1	"	set/1000				-4:30	1.62 good
070	"	2.0	"	set/200				-4:29	1.61 bad
071	"	11	"					-4:28	1.60 really bad
072	"	11	"	set/2500				-4:27	1.60 very wide area
073	"	11	"	set/3500				-4:26	1.59
074	"	1.0	1.0	set/2500				-4:25	1.57

075

IMAGES

Telescope: 61"

Frame prefix #: FR92B Day of Week: Sun/Mon

RA offset:

Focus:

Humidity: 70% Sheet #: 1

Observers: Fink, Hoffmann,
Grady, Hicks, Schutte

Date MST/UT: 23/24

Dec offset:

Tailpiece: 34.3

Balancer:

Temp O/I:

lris: 305

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.)
	Fk4 *	.1	1/2 dichroic		4:30	7:29:22	12:11:8	∅	Guidepoint (380, 430)
									(→ row 374 spectra)
			guide						ph no! right on hotspot
									IMAGES COLT SPECTRUM ROW 430 → 374
									401 → 392
									395 → 396
									1.03 = sec Z
	SAO *	1.0	1/2 dichr	130000 ^{phot}	5:00	8:14:03.0	43:32:54	-49m	guide command delay .333
	SAO *	0.2	"	210000 ^{phot}	5:15	8:52:48	37:6:25	-47m	sec Z = 1.01 Guide delay = .25
1	IIHZ4	30	"	150 pk 4700 phot	5:28	8:58:10.5	37:7:58	-38m	sec Z = 1.00 (wind to 35 mph)
2	LT6	30	"	9500 phot	6:02	9:16:24.5	34:28:56	-123m	sec Z = 1.00
3	LT6	180	"		6:39			+13m	sec Z = 1.00
4	RIMITO	10	V+R	700 pk 12000 ph	7:08	7:37:1.6	53:44:22	sec Z 1.19	FR92B24 GH Guide pt: (340, 390)
5	"	10	"		7:19	7:37:11	53:46:02	1.21	
6	"	10	"					1.22	
7	"	10	"		7:22			1.22	Set file: "RIM"

256²

"

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400²

Telescope: 61"

Frame prefix #: FR92B

Day of Week: Sun/Mon

Focus:

Humidity:

Sheet #: 2

Tailpiece:

Temp O/I:

RA offset:

Dec offset:

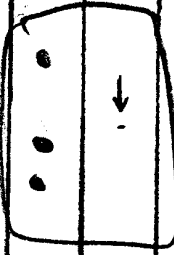
Observers: Hoffmann, etc. Date MST/UT: 23/24

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Sec 2 Comments (P.A., seeing, Moon, clouds, etc.)
8	SAO 26439 COMP 1	0.3	VAR			7:38:26.3	54:36.1	+2:45	1.24 setfile = "COMP1"
9	"	0.3	"		7:34				1.25
10	531 ZERLINAD	10	"		7:47	10:43:38	-24:11:18		1.82 setfile = "ZER"
11	"	20	"		7:50				1.82
12	"	"	"		7:52				1.82
13	"	"	"	Phot 24000	7:54				1.82
14	COMP 12	13	"	- could not find			star		setfile = "COMP12"
15	SAO 1884		"			10:49:17	-23:35:38		not saved, no star
14	1884 SKIP	20	"	Phot 4000	8:18	11:38:39.7	11:45:56		1.08 setfile = "SKIP"
15	"	"	"	(variable)	8:20				1.08
16	"	"	"		8:22				1.07
17	"	"	"		8:25	11:38:39.7	11:45:54		1.07 [Very faint]
18	SAO 97684 COMP 14	13	"	Phot 260000	8:30	11:35:38.4	12:32:30		1.07 setfile = "COMP14"
19	"	"	"	260000	8:30				1.07 → wind died down
20	RIMITO	20	"	Phot 22000	8:35				1.43

256²

"

400²



Telescope: 61"

Frame prefix #: FR92B Day of Week: SUN/MON

Observers: Hoffmann, W.G., Date MST/UT: 23/24
M.H., A.L.S.

RA offset:

Dec offset:

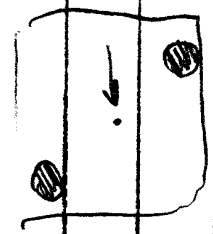
Focus: Tailpiece:

Balance:

Humdty: Sheet #: 3

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
21	RIMITO	20	V+R		8:38	7:37:12	53:45:39	+3:52	1.44
22	"	"	"		8:40				1.44 MOON IS UP
23	"	"	"	260000	8:41				1.45
24	COMP 1	13	"	Phot: 265000	8:46	7:38:29.3	54:35:20	+4 hours	1.46
25	"	"	"		8:47				1.465
26	ZERUNA	20	"	Phot: 30000	8:51				1.91
27	"	"	"		8:55	10:43:35.9	-24:10:59.9	+1 hr	1.92
28	"	"	"		8:56				1.92
29	"	"	"		8:57				1.92
30	COMP 13	13	"	Phot: 90000	9:01	10:45:58.7	-23:57:47		1.91 setfile = "COMP13"
31	"	"	"		9:01				1.92
32	SKIP	20	"	Phot: 5600	9:10				1.07
33	"	"	"		9:06	11:38:39	11:46:3	+1:18	1.07
34	"	"	"		9:08				1.07
35	"	"	"	Phot: 3700	9:09				1.07



Telescope: 61"

Frame prefix #: FR92B Day of Week: SUN/MON RA offset:

Observers: Hoffmann et al, Date MST/UT: 23/24 Dec offset:

Focus:
Tailpiece:
Balance:

Humdty:
Temp O/I:

Sheet #: 4

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
36	COMP 14	3	V+R	Phot: 260000	9:11	11:35:39	12:32:30	+27	1.07
37	"	"	"	Phot: 246000	9:12				1.07
38	STD SA76-280	5sec	"		9:15	8:20:37	14:46:49		1.72
39	"	"	"		9:21				1.75
40	RIMITO	20s	"	Phot: 17400	9:26	7:37:55	53:43:59	+4:40	1.66
41	"	"	"		9:28				1.67
42	"	"	"		9:29				1.67
43	"	"	"	13000	9:30				1.68
44	COMP 1	.3	"	248000	9:33				1.69
45	"	"	"		9:34				1.69
46	ZERLINA	20	"		9:37				2.13
47	"	"	"	24000	9:38	10:43:36.1	-24:10:59	+1.47	2.13
48	"	"	"		9:41				2.15
49	"	"	"		9:42				2.16
50	COMP 13	13	"		9:43	10:45:59	-23:57:46		2.13

Telescope: 61"

Frame prefix #: FR92B Day of Week: SUN/MON RA offset:

Observers: Hoffmann et al, Date MST/UT: 23/24 Dec offset:

Focus: Tailpiece: Balance:

Humdty: Temp O/I:

Sheet #: 5

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.)
51	COMP 13	.3	V+R	Phot: 88000	9:44				2.14
52	SKIP	20	"	3300	9:47				1.10
53	"	"	"	5300	9:49	11:38:39	11:45:48		1.10
54	"	"	"		9:51				1.11
55	"	"	"		9:52				1.11
56	COMP 14	.3	"		9:54				1.11
57	"	"	"	Phot: 257000	9:54	11:35:39	12:32:30		1.11
58	RIMITO	20	"	18000	9:57				1.86
59	"	"	"	16000	10:00	7:57:17.4	53:44:17	+ 5 hrs	1.88
60	"	"	"		10:01				1.89
61	"	"	"	17000	10:03				1.91
62	COMP 1	.3	"		10:04				1.89
63	"	"	"	247000	10:05	7:38:33	54:35:11	+ 5 hrs	1.90
64	ZERLINA	20	"	20600	10:10				2.40
65	"	"	"		10:12	10:43:34	-24:10:19	+ 2:21	2.43

Telescope: 6 1/2"

Humidity: Sheet #: 6

Focus: Tailpiece: Balance:

RA offset: Dec offset:

Frame prefix #: FR92B
 Day of Week: SUN/MAN
 Observers: M.H.N.H.W.G
 Date MST/UT: 23/24

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.)
66	ZERLINA 20		VTR		10:14				2.45
67	"	"	"	Phot: 5000	10:15				2.47
68	COMP 13	3	"		10:17				2.44
69	"	"	"	Phot: 82200	10:18	10:45:59	-23:57:45		2.46
70	SKIP	20	"	Phot: 4000	10:21				1.15
71	"	"	"		10:23	11:38:38	11:46:4.6		1.16
72	"	"	"		10:24				1.16
73	"	"	"	Phot: 1500	10:25				1.16
74	COMP 14	3	"		10:27				1.16
75	"	"	"	Phot: 254000	10:28	11:35:39	12:32:30		1.17
76	RIMITO 20		"	18500	10:31			+5:45	2.15
77	"	"	"		10:33	7:37:19.9	53:44:21		2.17
78	"	"	"		10:34				2.18
79	"	"	"		10:35				2.20
80	COMP 1	3	"		10:37				2.18

Telescope: 6"

Frame prefix #: FR92B Day of Week: SUN/MON RA offset:

Humdty: Sheet #: 7

Observers: M.H., M.H., W.S. Date MST/UT: 23/24 Dec offset:

Focus: 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.)
81	COMP 1	.3	V+R	Phot: 223000	10:39	7:38:38	54:34:58	~6 hrs	2,20
82	SKIP	20	"	Phot: 4000	10:42				1,20
83	"	"	"		10:45				1,21
84	"	"	"		10:46	11:38:38	11:45:50	+2 hrs	1,21
85	"	"	"		10:47				1,21
86	COMP 14	.3	"	Phot: 245000	10:49				1,22
87	"	"	"		10:50	11:35:37.8	12:22:34		1,22
88	RIMITO	20	"	17700	10:53			+6 hrs	2,41
89	"	"	"		10:56	7:37:21.1	53:44:27		2,43
90	"	"	"		10:57				2,46
91	"	"	"		10:59				2,48
92	COMP 1	.3	"	204000	11:00				2,44
93	"	"	"		11:01	7:38:38.2	54:34:59	+6:15	2,46
94	JEFFERS	20	"	21500	11:09				1,26 (Hit RA limit)
95	"	"	"		11:	10:57:1.5	41:55:03	+3 hrs	1,27 "JEFF

Jeffers →

Telescope: 61"

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Frame prefix #: FR92B

Day of Week: SUN/MON

RA offset:

Focus: Tailpiece:

Humdty: Sheet #:

Observers: M.H., M.H., W.G.

Date MST/UT: 23/24

Dec offset:

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.)
96	JEFFERS	20	VTR		11:14				1.28
97	"	"	"		11:15		41:55		1.28
98	^{SAN13575} COMP 16	12	"	353000	11:20	10:55:19.2	41:30:37	+3:15	1.30
99	"	"	"		11:21				1.30
100	SKIP	20	"	1600	11:24				1.33
101	"	"	"		11:26	11:38:38	11:45:52	+2:40	1.35
102	"	"	"		11:29				1.35
103	"	"	"	1300	11:30				1.36
104	COMP 14	13	"		11:31	11:35:28.5	12:32:30		1.37
105	"	"	"	242000	11:32				1.37
106	JEFFERS	20	"	20700	11:35				1.35
107	"	"	"		11:37	10:57:12	41:55:12	+3:30	1.36
108	"	"	"		11:39				1.36
109	"	"	"	11900	11:40			+3:35	1.37
110	COMP 16	12	"		11:42				1.39

Telescope: 61"

Frame prefix #: FR92B Day of Week: SUN/MON

Observers: M.H., M.H., W.G. Date MST/UT: 23/24

Focus: Humdty: Sheet #: Tailpiece: Balance: Temp O/I:

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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.)
111	COMP 16	.2	V+R	350000	11:43	10:55:9.3	41:30:37		1.39
112	SKIP	20	"	4500	11:45				1.43
113	"	"	"		11:48	11:38:38.1	11:46:4	+3 hrs	1.44
114	"	"	"		11:49				1.45
115	"	"	"		11:50				1.46
116	COMP 14	.3	"						1.48?
117	"	"	"	236000	11:53	11:35:39	12:32:30	+3:10	1.48
118	Jeffers	20	"	23000	11:56			+3:50	1.44
119	"	"	"		11:58	10:57:1.1	41:55:16		1.45
120	"	"	"		11:59				1.46
121	"	"	"		12:01				1.46
122	COMP 16	.2	"	331000	12:02				1.48
123	"	"	"	316000	12:04	10:55:11.3	41:30:40		1.49
124	SKIP	20	"	3200	12:07				1.56
125	"	"	"			11:38:38.5	11:46:7	+3:20	1.58

Telescope: 61"

Frame prefix #: FR92B

Day of Week: SUN/MON

RA offset:

Focus:

Humdty:

Sheet #: 10

Observers:

Date MST/UT: 23/24

Dec offset:

Tailpiece:

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.)
126	SKIP	20	V+R		12:11				1.59
127	"	"	"	5000	12:12		+13		1.60
128	COMP 14	.3	"		12:15				1.62
129	"	"	"	201000		11:35:39	12:32:30	+ 3:30	1.63
130	JEFFERS	20	"	16700	12:19			+	1.56
131	"	"	"	10600	12:21	10:56:52.6	42:3:44	+ 4:15	1.58
132	"	"	"		12:24	10:56:49	42:3:38		1.59
133	"	"	"		12:25			+ 4:20	1.60
134	COMP 16	.2	"	324000	12:26				1.6?
135	"	"	"		12:28	10:55:12.7	41:30:42	+ 4:25	1.64
136	SKIP	20	"	3050	12:32				1.76
137	"	"	"		12:34	11:38:39.6	11:46:17	+ 3:48	1.78
138	"	"	"		12:36				1.79
139	"	"	"		12:37				1.81
140	COMP 14	.3	"	219000	12:38				1.84

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Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES

RA offset:

Focus: 3550

Humidity: 66 Sheet #: 12

Observers: Hoffmann, Gandy,
Fick, Hicks, Schultz

Dec offset:

Tailpiece:
Balance:

Temp O/I: 28/32

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
	FK4*	.05				5:19:18	28:2:20		FR92B 25.6H ← Guide history
153	RIMITO	20	V+R		2:26				1.19
154	"	"	"	23500	2:29				1.18
155	"	"	"	13300	2:32	7:37:09	53:41:55	-2:10	1.17
156	"	"	"		2:34				1.17
157	COMP 1	.3	"	307000	2:36				1.17
158	"	"	"		2:38	7:38:26.3	54:36:1	-2:07	1.17
159	Jeffers	20	"	19000	2:46			-5:15	2.07
160	"	"	"		2:49	10:56:10.4	42:11:56		2.05
161	"	"	"		2:50				2.04
162	"	"	"		2:52				2.03
163	COMP 16	.2	"	296000	2:55	10:55:3.7	41:32:39	-5h	1.99
164	"	"	"		2:55				1.98
165	RIMITO	20	"	25000	3:00			-1:42	1.13

Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES

RA offset:

Focus:

Humdty:

Sheet #: 13

Observers:

Date MST/UT: 24/25

Dec offset:

Tailpiece:

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 (P.A., seeing, Moon, clouds, etc.)	Comments
166	RIMITO	20	VTR		3:03	7:37:0.6	53:42:05	-1:40	1.13	
167	"	"	"		3:04				1.13	
168	"	"	"		3:05				1.13	
169	COMP 1	3	"	312000	3:06			-1:38	1.13	wind gusts up to 20 mph
170	"	"	"		3:08	7:38:26.4	54:36:40		1.13	
171	JEFFERS	20	"	20000	3:13				1.82	Bright star in field
172	"	"	"		3:18	10:56:11.1	42:1:7	-4:45	1.77	Blots things out
173	"	"	"		3:19				1.77	
174	"	"	"		3:21				1.76	
175	COMP 16	2	"	311000	3:24				1.73	
176	"	"	"		3:24	10:55:5.5	41:3:59		1.72	
177	RIMITO	20	"		3:27				1.11	
178	"	"	"	26000	3:29				1.10	
179	"	"	"		3:31	7:37:0.3	53:41:55	-1:10	1.10	
180	"	"	"		3:32				1.10	

Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES RA offset:

Observers: Date MST/UT: 24/25 Dec offset:

Focus: Humdty: Sheet #: 14

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.)
181	COMP 1	.3	V+R	311000	3:33			-1:10	1.11
182	"	"	"		3:35	7:38:26.2	54:36:21		1.11
183	JEFFERS	20	"	20000	3:40	10:56:11.7	42:01:02	-4:22	1.62 Bright star to NW.
184	"	"	"		3:42				1.61 "
185	"	"	"		3:43			-4:19	1.60 "
186	"	"	"		3:45				1.59 "
187	COMP 16	.2	"	337000	3:46			-4:15	1.57
188	"	"	"		3:48	10:55:6.6	41:31:49		1.56
189	^{STD} SA76-280	3 sec	"	—	3:54	8:20:38.2	14:47:1	-1:33	1.13
190	"	"	"	—	3:55			-1:31	1.13
191	RIMITO	20	"	25000	3:58			-:45	1.08
192	"	"	"		4:00	7:36:59.8	53:41:52	-:43	1.08
193	"	"	"		4:01				1.08
194	"	"	"		4:03				1.08
195	COMP 1	0.3	"	309000	4:04			-:40	1.09

512
"

Telescope: 61"

Sheet #: 15

Frame prefix #: FR92B Day of Week: MON/TUES RA offset:

Humidity: Focus: Tailpiece: Balance:

Observers: Date MST/UT: 24/25 Dec offset:

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
196	COMP 1	0.3	V+R		4:05	7:38:25.4	54:36:37		1.09	wind 17mph
197	Jeffers	20	"	^{Phot:} 20000	4:09			-3:53	1.45	(Bright star)
198	"	"	"		4:14	10:56:11.3	42:01:19	-3:50	1.49	(computer crashed)
199	"	"	"		4:15				1.42	
200	"	"	"		4:17				1.42	
201	COMP 16	0.2	"	^{Phot} 350000	4:18			-3:43	1.41	
202	"	"	"		4:19	10:55:8.7	41:31:49		1.40	Climate report:
203	RIMITO	20	"	^{Phot:} 22000	4:22				1.08	- very hazy in west
204	"	"	"		4:24	7:36:58.5	53:31:37	-:18	1.08	- clear in east
205	"	"	"		4:25				1.07	- warm and clear in warm room
206	"	"	"		4:27				1.07	- Windy outside
207	COMP 1	0.3	"	308000	4:28				1.08	
208	"	"	"		4:30	7:38:25	54:36:25	-:15	1.08	
209	JEFFERS	20	"	^{Phot} 19000	4:32			-3:30	1.35	6 th mag. star
210	"	"	"		4:35	10:56:11.1	42:1:21		1.34	blots everything out

Telescope: 61"

Humidity: 70% Sheet #: 16

Frame prefix #: FR92B Day of Week: MON/TUE RA offset:

Focus: 3554

Tailpiece:

Temp O/I: 30/33

Observers: Date MST/UT: 24/25 Dec offset:

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.)
211	JEFFERS	20	V+R		4:36			-3:26	1.33
212	"	"	"		4:37				1.33
213	COMP 16	0.2	"	363000	4:39			-3:22	1.32
214	"	"	"		4:40	10:55:9.4	41:31:45		1.32
215	3267 GLO	20	"	22000	4:51			→ 5hrs	2.14 New Object
216	"	"	"		4:54	12:44:33.2	31:28:54		2.10
217	"	"	"		4:55				2.08
218	"	"	"		4:56				2.07
219	COMP 25	.3	"	^{Phot} 200000	5:00	12:43:3.5	30:52:19	-4:50	2.01
220	"	"	"		5:01				2.00
221	RIMITO	20	"	22000	5:04				1.08
222	"	"	"		5:08	7:36:57.2	53:41:31	+1:25	1.08
223	"	"	"		5:09				1.08
224	"	"	"		5:10				1.08
225	COMP 1	0.3	"	303000	5:11				1.08

Telescope: 61"

Frame prefix #: FR92B

Day of Week: MON/TUES

RA offset:

Focus:

Humidity:

Sheet #: 7

Observers:

Date MST/UT: 24/25

Dec offset:

Tailpiece:

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.)
226	COMP 1	0.3	V+R		5:13	7:38:24.3	54:36:7	+1:29	1.08
227	JEFFERS	20	"	21000	5:16			-2:46	1.21
228	"	"	"		5:18	10:56:10.4	42:01:42		1.20
229	"	"	"		5:19				
230	"	"	"		5:20				1.20
231	COMP 16	0.2	"	374000	5:22				1.19
232	"	"	"		5:23	10:55:10.6	41:31:46	-2:38	1.19
233	GLO	20	"	25000	5:27				1.74
234	"	"	"		5:29	12:44:35	31:29:31	-4:21	1.72
235	"	"	"		5:30				1.71
236	"	"	"		5:32				1.70
237	COMP 25	.3	"	219000	5:33			-4:15	1.68
238	"	"	"		5:35	12:43:5.8	30:52:26		1.67
239	RIMITO	20	"	23400	5:40				1.09
240	"	"	"		5:43	7:36:56.6	53:41:59	+1 hour	1.09

Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES RA offset:

Humdty: Sheet #: 18

Observers: Date MST/UT: 24/25 Dec offset:

Focus: 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.)
241	RIMITO	20	V+R		5:44			+1 hr	1.09
242	"	"	"		5:46				1.10
243	COMP 1	0.3	"	305000	5:47			+1 hr	1.10
244	"	"	"		5:49	7:38:24.4	54:35:57		1.10
245	JEFFERS	20	"	22400	5:53				1.12 (Getting closer to the
246	"	"	"		5:55	10:56:8.5	42:01:06	-2:06	1.12 } bright star (6 th mag)
247	"	"	"						1.12 (a K0 star)
248	"	"	"		5:58				1.12 (SAO 43535
249	COMP 16	0.2	"	^{PK-41K} 371000	5:59				1.11 ← Overexposed a bit
250	"	0.15	"	285000	6:00	10:55:10.7	41:31:07	-2 hrs	1.11
251	GLO	20	"	24400	6:04			-3:45	1.47
252	"	"	"		6:06	12:44:35	31:28:50		1.46
253	"	"	"		6:08			-3:42	1.46
254	"	"	"		6:09				1.45
255	COMP 25	0.3	"	237000	6:10			-3:38	1.44

Telescope: 61"

Frame prefix #: FR92B

Day of Week: MON/TUES

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 19

Observers:

Date MST/UT: 24/25

Temp O/I:

Balance:

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.)
256	COMP 25	0.3	V+R		6:12	12:43:7	30:51:28		1.43
257	RIMITO	20	"	25400	6:16			+1:34	1.12
258	"	"	"		6:19	7:36:56.7	53:40:30		1.13
259	"	"	"		6:20				1.13
260	"	"	"		6:21				1.13
261	COMP 1	0.3	"	308000	6:23				1.13
262	"	"	"		6:24	7:38:24.7	54:35:25	+1:41	1.14
263	JEFFERS	20	"	23200	6:27				1.07
264	"	"	"		6:30	10:56:06.3	42:01:07	-1:31	1.07
265	"	"	"		6:32				1.07
266	"	"	"		6:33				1.06
267	COMP 6	0.15	"	277000	6:34			-1:26	1.06
268	"	0.1	"	187000	6:36	10:55:10.4	41:30:56		1.06
269	GLO	20	"	22400	6:40			-3:10	1.30
270	"	"	"		6:43	12:44:34.9	31:29:03		1.29

Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES

RA offset:

Humdty: Focus: Tailpiece: Balance:

Sheet #: 20

Observers: Date MST/UT: 24/25

Dec offset:

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.)
271	GLO	20	V+R		6:44				1.29
272	"	"	"		6:46				1.28
273	COMP 25	0.3	"	249000	6:48				1.28
274	"	"	"		6:48	12:43:07.5	30:51:25	-3 hours	1.27
275	RIMITO	20	"	25300	6:53			+2:11	1.17
276	"	"	"		6:57	7:36:56.7	53:41:19	+2:14	1.18 VME crashed again
277	"	"	"		7:00				1.18
278	"	"	"		7:01				1.19
279	COMP 1	0.2	"	204000	7:03				1.19
280	"	"	"		7:05	7:38:25.4	54:35:45	+2:20	1.20
281	Jeffers	20	"	^{Phot.} 20700	7:09				1.03
282	"	"	"		7:12	10:56:03.3	42:01:27	-1:50	1.03
283	"	"	"		7:13				1.03
284	"	"	"		7:15				1.03
285	COMP 16	0.1	"	194000	7:16				1.03

Telescope: 61"

Humidity: 70%

Sheet #: 21

Frame prefix #: FR92B

Day of Week: MON/TUES

Focus: Tailpiece:

Observers:

Date MST/UT: 24/25

RA offset: Dec offset:

Balance:

Temp O/I: 29/32 °F

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.)
286	COMP 16	0.1	V+R		7:18	10:55:09.5	41:31:02	-:42	1.02 Vwind = 12 mph
287	GLD	20	"	24600	7:21			-2:30	1.17
288	"	"	"		7:23	12:44:34.2	31:29:39		1.17
289	"	"	"		7:26				1.16
290	"	"	"		7:27				1.15
291	COMP 25	.3	"	242000	7:29				1.15
292	"	"	"		7:31	12:43:07.7	30:51:26	-2:18	1.15 <i>1/2 Break!</i>
293	RIMITO	20	"	21700	7:40				1.27
294	"	"	"		7:42	7:36:57.3	53:40:30	+3 hrs	1.27 Put N2 in Dewar
295	"	"	"		7:43				1.27
296	"	"	"		7:44				1.28
297	COMP 1	0.2	"	198000	7:45			+3 hrs	1.28
298	"	"	"		7:47	7:38:26.4	54:35:43		1.29
299	JEFFERS	20	"	20900	7:50			-:12	1.02 Getting close to
300	"	"	"			10:56:0.7	42:01:14		1.01 Bright star

Telescope: 61"

Frame prefix #: FR92B Day of Week: MON/TUES RA offset:

Humdty: Focus: Tailpiece: Balance:

Sheet #: 22

Observers: Date MST/UT: 24/25 Dec offset:

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
301	JEFFERS	20	V+R		7:53	10:56:0.7	42:01:14	-:08	1.01	Very close to bright star
302	"	"	"		7:54				1.01	
303	COMP 16	0.1	"	196000	7:56			-:04	1.01	
304	"	"	"		7:58	10:55:08.5	41:30:37	-:02	1.01	
305	GLO	20	"	27300	8:01			-1:48	1.09	
306	"	"	"		8:04	12:44:33	31:29:52	-1:46	1.08	
307	"	"	"		8:05				1.08	
308	"	"	"		8:06			-1:43	1.08	
309	COMP 25	0.3	"	254000	8:08			-1:40	1.07	
310	"	"	"		8:09	12:43:08.2	30:51:18		1.07	V _{wind} ~ 10 mph
311	ZERLINA	20	"	33700	8:16			+1:28	1.83	more Tucson light to the SW
312	"	"	"		8:21	10:42:50.7	-24:00:57	+1:33	1.83	
313	"	"	"		8:22			+1:34	1.84	
314	"	"	"		8:24				1.84	
315	COMP 13	0.2	"	FR: 10500 PA: 65000	8:25				1.83	

Telescope: 61"

Humdty: Sheet #: 23

Frame prefix #: FR92B Day of Week: MON/TUES RA offset:

Focus: Tailpiece: Balance: Temp O/I:

Observers: Date MST/UT: 24/25 Dec offset:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
316	COMP 13	0.4	V+R		8:27	10:45:58.7	-23:57:36		1.84
317	JEFFERS	20	"	23600	8:30			+1:29	1.02
318	"	"	"		8:32	10:55:57.5	42:01:48	+1:31	1.02
319	"	"	"		8:34				1.02
320	"	"	"		8:35				1.02
321	COMP 16	0.1	"	191000	8:36			+1:36	1.02
322	"	"	"		8:38	10:55:07.7	41:31:17		1.02
323	GLO	20	"	31100	8:41			-1:09	1.03
324	"	"	"		8:44	12:44:31.9	31:29:58		1.03
325	"	"	"		8:45				1.03
326	"	"	"		8:46			-1 hr	1.03
327	COMP 25	0.3	"	261000	8:48			-1:00	1.03
328	"	"	"		8:50	12:43:08.2	30:51:01		1.02
329	ZERLINA	20	"		8:55			-1:53	1.02
330	ZERLINA	20	"	^{Phot} 30400	8:59			+1:12	1.94

SYSTEM CRASHED DURING WRITE ->reboot

MOON IS UP SKY IS BRIGHT

Sky level doubled

Telescope: 61"

Frame prefix #: FR92B

Day of Week: MON/TUES

Focus: Tailpiece: Balance:

Humdty: Sheet #: 24

Observers:

Date MST/UT: 24/25

Dec offset:

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.)
331	ZERLINA	20	V+R		9:03	10:42:49	-24:00:41	+1:15	1.95
332	"	"	"		9:04				1.96
333	COMP 13	0.4	"		9:05				1.96
334	COMP 13	0.4	"	175000	9:07			+1:16	1.96
335	RIMITO	"	"		9:09	10:45:58.8	-23:57:37		1.96
336	RIMITO	20	"	21700	9:12			+4:30	1.61
337	"	"	"		9:15	7:37:01.6	53:40:06		1.62
338	"	"	"		9:17			4:36	1.63
339	"	"	"		9:19			4:38	1.65
340	COMP 1	0.2	"	172000	9:23	7:38:32	54:35:10	+4:40	1.66
341	"	"	"		9:26	7:38:31			1.67
342	GLO	20	"	27500	9:30			-0:19	1.00
343	"	"	"		9:34	12:44:28	31:30:25	-0:15	1.00
344	"	"	"		9:36			-0:13	1.00
345	"	"	"		9:37			-0:12	1.00

Telescope: 61"

Frame prefix #: FR92B

Day of Week: MON/TUES

Focus: Tailpiece:

Humidity:

Sheet #: 25

Observers:

Date MST/UT: 24/25

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.)
346	G40	20	VTR		9:39			-0:07	1.00
347-348	COMP 25	0.3	"	262000	9:41	12:43:06	30:51:46	-0:05	1.00
349-352	IMMA	20	"	26000	9:47	10:42:47	-24:00:23	+2:00	2:23, 2.26, 2.27 349 350 351 not with
353-353	COMP 13	0.4		115000	9:50	10:45:59	-23:57:24	+2:00	2.29 2.31 352 353 IMA
354-356	JEFFERS	20		19700	10:05	10:55:52	+42:01:56	+2:04	1.12 1.12 1.13 354 355 356 SYS
357-358	COMP 16	0.1		187000	10:17	10:55:08	+41:30:38	+2:23	1.14 1.15 357 358 IMMA
359-361	G40	20		25000	10:26	12:44:26	+31:30:54	+0:37	1.01 1.01 1.01 359 360 361 SYS
362-363	COMP 25	0.3		258000	10:35	12:43:05	+30:50:44	+0:47	1.02 1.02 362 363 SYS
364-366	JEFFERS	20		19300	10:41	10:55:51	+42:02:02	+2:40	1.19 1.21 1.21 364 365 366 SYS
369-368	COMP 16	0.1		183000	10:50	10:55:08	+41:30:35	+2:50	1.22 1.22 367 368 SYS
369-372	G40	20		257000	10:54	12:44:25	+31:31:9.5	+1:05	1.03 1.03 1.04 1.04 369 370 371 372 SYS
373-374	COMP 25	0.3		254000	11:08	12:43:05	+30:50:44	+1:20	1.05 1.05 373 374 IMMA & SYS
375-378	JEFFERS	20		19600	11:16	10:55:57	+42:01:48	+3:16	1.30 1.31 1.31 1.32 375 376 377 378 NO GUIDE SYS
378-380	COMP 16			128000	11:24	10:55:09	+41:30:35	+3:25	1.33 1.34 379 380 SYS
381-383	G40			27000	11:31	12:44:23	+31:31:29	+1:42	1.08 1.08 1.08 381 382 383 SYS

Telescope: 61"

Humidity: 66% Sheet #: 26

Focus: Tailpiece: Balance:

RA offset:

Day of Week: MON/TUE

Frame prefix #: FR92B

Temp O/I: 22/30

Dec offset:

Date MST/UT: 24/25

Observers:

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.)
384-385	COMP25	0.3	V+R	256,000	11:37	12:43:05	+30:50:40	+1:50	1.09 1.09 384 385 SYS
386-389	JEFFERS	20		20,200	11:43	10:55:57	+42:01:48	+3:44	1.40 1.41 1.42 1.43 NOG.WID 386 387 388 389 SYS
390-391	COMP16	0.1		173,000	11:51	10:55:10	+41:30:45	+3:53	1.45 1.46 390 391 SYS
392-394	GLO	20		27,300	11:57	12:44:23	+31:31:39	+2:08	1.12 1.13 1.13 392 393 394 SYS
395-396	COMP25	0.3		249,000	12:03	12:43:05	+30:50:36	+2:16	1.14 1.14 395 396 SYS
397-399	JEFFERS	20		21,800	12:11	10:55:51	+42:02:38	+4:10	1.53 1.58 1.58 397 398 399 SYS
400-401	COMP16	0.1		165,000	12:17	10:55:12	+41:30:48	+4:08	1.60 1.61 400 401 SYS
402-404	GLO	20		27,800	12:24	12:44:22	+31:32:07	+2:35	1.19 1.20 1.20 402 403 404 SYS
405-406	COMP25	0.3		224,000	12:30	12:43:05	+30:50:42	+2:43	1.22 1.22 405 406 SYS
407-409	JEFFERS	20		16,500	12:35	10:55:50	+42:02:46	+4:35	1.71 1.73 1.75 407 408 409 SYS
410-411	COMP16	0.1		161,300	12:43	10:55:13	+41:30:51	+4:43	1.78 1.79 410 411 SYS
412-415	GLO	20		22,700	12:47	12:44:22	+31:32:07	+2:59	1.26 1.28 1.28 1.29 200x200 412 413 414 415 SYS
416-417	COMP25	0.3		239,000	12:56	12:43:06	+30:50:34	+3:08	1.30 1.31 416 417 SYS & IMA

Telescope: 61"

Frame prefix #: FR92B

Day of Week: Tue/Wed RA offset:

Focus: 3580 Humdty: 66 Sheet #: 27

Observers: Hoffmen
Hicks

Date MST/UT: 25/26 Dec offset:

Balance: Temp O/I: 30/32

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.)
418									
418	1992AD	30s	V4A	5500	2:59	7:57:46	21:44:20	-2:01	GP (340,390) Wind: 6
419	"	"	"		2:59				1.14
420	"	"	"		3:07				1.13
421	"	"	"		3:05				1.13
422	COMPEN	0.3	"	32960	3:18	8:05:24	20:50:19		1.12
423	"	"	"		3:19				1.12
424	MAYALL	20	"	7344	3:28	7:01:45	21:49:24	-0:35	1.03 ^{Very} Near Bright Star
425	COMP23	0.3	"	26930	3:32				1.03
426	"	"	"		3:32	7:03:26	21:30:52		1.03
427	1992AD	30s	"	4713	3:35				1.07
428	"	"	"		3:39	7:57:48	21:45:21		1.07
429	"	"	"		3:40				1.07
430	"	"	"					-1:18	1.07
431	COMPEN	0.3	"	27500	3:44				1.08

Telescope:

Humidity: Sheet #: 28

Focus: Tailpiece:
Balance:

RA offset:

Frame prefix #: FR97B

Day of Week: Tue/Wed

Temp O/I:

Dec offset:

Date MST/UT: 25/26

Observers: Mike
H. H. H. H.

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.)
432	COMPEN	0.3	"		3:45	8:05:24	20:50:36		1.08
433	NAP	30	"		3:58	7:15:39	17:30:02		1.04
434	"	"	"	3556	3:59				1.04
435	"	"	"		4:02				1.04
436	"	"	"		4:03			-0:13	1.04
437	COMP19	0.3	"	44288	4:06	7:15:36	18:43:11		1.03
438	"	"	"		4:07				1.03
439	1992AD	30	"	4312	4:10				1.04
440	"	"	"		4:12	7:57:47	21:45:08	-0.46	1.03
441	"	"	"		4:14				1.03
442	"	"	"		4:15				1.03
443	COMPEN	0.3	"	17556	4:17	8:05:24	20:50:29	-0.44	1.04
444	"	"	"		4:18				1.04 Few small clouds in sky!
445	MARVELL	20	"	8448	4:25				1.02
446	"	"	"		4:26				1.02

Telescope:

Frame prefix #: FR920 Day of Week: Tue/Wed RA offset: Humdty: Sheet #: 29

Observers: Hoffmann Hicks Focus: Tailpiece: Balance: Temp O/I:

Date MST/UT: 25/26 Dec offset:

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.)
447	MAYALL	20	"		4:27				1.02
448	"	"	"		4:30	7:01:42	21:49:04	+0:26	1.02
449	COMP23	0.3	"	19200	4:31				1.02
450	"	0.3	"		4:32	7:03:25	21:30:55	+0:20	1.02
451	NAP	30	"	3176	4:36	7:15:36	17:24:42	+0:22	1.04
452	"	30	"		4:34				1.04
453	"	"	"		4:41				1.04
454	COMP19	0.3	"	92800	4:43	4:51:14	18:43:11	+0:17	1.03
455	COMP19	"	"		4:41				1.04
456	COMP19	30	"	3981	4:40				2.01
457	"	"	"		4:51	7:57:46	21:44:51	-0:08	2.01
458	"	"	"		4:52				2.01
459	"	"	"		4:53				2.01
460	COMPEN	0.3	"	34816	4:56			-0:11	1.02
461	"	"	"		4:58				2.01

Telescope:

Frame prefix #: **FR92B** Day of Week: **Tue/Wed** RA offset: Humdty: Sheet #: **30**

Observers: **H. Les** Date MST/UT: **25/26** Dec offset: Balance: Temp O/I:

Hoffman

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.)
462	MAYALL	20	"	6624	5:02	7:0:45	21:40:42		1.05 Clouds have grown
463	"	"	"		5:04				1.05 (esp in south)
464	"	"	"		5:05				1.05
465	"	"	"		5:07				1.05
466	COMP23	0.3	"	28064	5:08	7:03:26	21:30:51		1.05
467	"	"	"		5:09				1.05
468	NAP	30	"	3280	5:15				1.06 LARGE CIRRUS
469	"	"	"		5:16	7:15:36	17:24:19		1.06 EVERYWHERE
470	"	"	"		5:17				1.07
471	"	"	"		5:19			1:02	1.07
472	COMP19	0.3	"	49151	5:21				1.06
473	"	"	"		5:22	7:15:34	18:47:56		1.06 BREAKING FOR CLOUDS
474	1942AD	30	"	4304	7:17				1.18 WE'RE BACK
475	"	"	"		7:18	7:57:43	21:45	2:20	1.19
476	"	"	"		7:20				1.19

531

Telescope:

Frame prefix #: FR92B Day of Week: Tuesday RA offset: Humdty: Sheet #: 31

Observers: Hoffmann HICKS Date MST/UT: 25/26 Dec offset: Temp O/I: Focus: Tailpiece: Balance:

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.)
477	1992AD	30	V+R		7:21				1.20
478	COMPEN	0.5	"	29440	7:23	8:05:26	20:56:16		1.79
479	"	"	"		7:25				1.19
480	ZERLINA	20	"	4568	7:35				1.80
481	"	20	"		7:37	10:47:05	23:51:07	-0:05	1.80
482	"	"	"		7:39				1.80
483	"	"	"		7:40				1.80
484	COMP13	0.4	"	10320	7:42	10:45:59	23:52:48		1.81
485	"	"	"		7:43				1.81
486	Kalbaugh	20	"		7:47				1.62
487	"	"	"	7136	7:50				1.62
488	"	"	"		7:53	10:37:48	14:23:57	+0:14	1.62
489	"	"	"		7:54				1.62
490	COMP22	0.2	"	40192	7:58	10:37:22	20:15:09		1.66
491	"	"	"		7:59				1.66

Telescope:

Frame prefix #: FR 928

Day of Week: Tue/Wed

RA offset:

Humdty: 67

Sheet #: 32

Observers: Hicks
Hoffman

Date MST/UT: 25/26

Dec offset:

Balance:

Temp O/I: 28/32

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.)
442	1992AD	30	V4R	40000	8:05	7:57:43	21:44:54	+3:06	1.35
443	"	"	"		8:07				1.37
444	"	"	"		8:09				1.37
445	"	"	"		8:10				1.38
446	COMPEN	0.3	"	32000	8:12	8:05:29	20:50:29		1.36
447	"	"	"		8:13				1.37
448	SA 76-280	3.0	"		8:18	9:20:38	14:46:42		1.39 STANDARD
449	"	"	"		8:19				1.39
500	ZERLINA	20	"	7936	8:23				1.84
501	"	"	"	4610	8:26	10:42:02	-25:5:48	+43	1.85
502	"	"	"		8:28				1.85
503	"	"	"		8:29				1.85
504	COMPIS	0.4	"	9992	8:31	10:45:59	-23:57:47		1.85
505	"	"	"		8:32				1.86
506	Katbough	20	"	5472	8:35				1.68

Telescope:

Humidity: Sheet #: 33

Focus: Tailpiece:

RA offset:

Frame prefix #: FR925

Day of Week: tue/wed

Temp O/I:

Dec offset:

Date MST/UT: 25/26

Observers: Arles Hoffman

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.)
507	Kilbuck	20	U+R		8:38	10:37:45	-14:23:56		1.79
508	"	"	"		8:41			11:00	1.78 System Hmg in Arles
509	"	"	"		8:42				1.70
510	COMP22	0.2	"	35776	8:44				1.74
511	"	"	"		8:46				1.75
512	1992AD	30	"	3974	8:49			3:50	1.61 scattered clouds high in the east
513	"	"	"		8:52	2:57:45	21:45:26		1.64
514	"	"	"		8:53				1.65 (we stop) cloudy
515	"	"	"		8:55				1.66
516	FRATCOM 1030			4760					Veriac 60
517	"	0.1	"						
518	"	0.1	"						
519	"	0.4	"	16336					
520	"	0.4	"						
521	"		"						

Telescope:

Frame prefix #: FR92B

Day of Week: tue/wed

Humdty: Focus: Tailpiece: Balance:

Sheet #: 34

Observers: Hoffman
Hicks

Date MST/UT: 25/26

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.)
522			V+R						
523			"						
524			"						
525			"						
526			"						
527			"						
528			"						
529			"						
530			"						
531			"						
532			"						
533			"						
534			"						
535			"						
536			"						

Telescope:

Frame prefix #: F992B Day of Week: Wed/Thu RA offset: Focus: 3553 Humdty: 68 Sheet #: 34
Observers: Hoffman H.icks Sears Date MST/UT: 26/27 Dec offset: Balance: Temp O/I: 28/30
Tailpiece:

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.)
X							GP 340	390	WINDS 220
521	19192AD	30	V+R	4384	2:32				1.19
522	"	"	"		2:36	7:56:37	21:46:39		1.19
523	"	"	"		2:38				1.18
524	"	"	"		2:39		-2:16		1.18
525	COMP CN	0.3	"	3059	2:41				1.20
526	"	"	"		2:44	6:05:33	20:50:25		1.1A
527	UN KNOWN	20	"		2:55	6:58:18	21:37:09		1.05 } 1.05 }
528	"	"	"						1.05
529	"	"	"	2854	2:57				1.05
530	MAYALL	20	"	6096	3:04				1.04
531	"	20	"		3:07				1.04
532	"	20	"		3:10	7:01:19	21:33:42		1.04
533	"	20	"		3:10				1.04
534	COMP23	0.3	"	13328	3:11	7:03:26	21:30:46		1.04

Telescope:

Frame prefix #: FR92B

Day of Week: Wed/Thu

RA offset:

Focus:

Humdty:

Sheet #: 35

Observers: Hicks, Seis
Mo. Homen

Date MST/UT: 7/27

Dec offset:

Tailpiece:

Temp O/I:

Balance:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start (P.A., seeing, Moon, clouds, etc.)	Comments
535	COMP23	0.3	V42		3:13				1.04
536	1992AD	30	"	3856					1.10
537	"	"	"		3:18	7:57:26	21:47:21	-1:36	1.09
538	"	"	"		3:20				1.09
539	"	"	"		3:21				1.09
540	COMP23	0.3	"	22480	3:23				1.10
541	"	"	"		3:25				1.10
542	"	0.3	"		3:27				1.10
543	MAPU	30	"	3067	3:41				1.04
544	"	"	"		3:43	7:15:17	17:17:57	-1:28	1.04
545	"	"	"		3:45				1.04
546	"	1'	"		3:47				1.04
547	COMP19	0.3	"	44160	3:49	7:15:35	18:43:06		1.03
548	"	"	"		3:50				1.03
549	1992AD	30	"	4112	3:55	7:57:37	21:46:39		1.05

WE LOOKED FOR UFO UN SUCCESSFUL

CAUTION

Telescope:

Frame prefix #: FR92B

Day of Week: w/ thurs

Humidity: 36

Sheet #: 36

Observers: Sears, Hoffman, Michs

Date MST/UT: 26/27

Dec offset:

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.)
550	1992AD	30	U4R		3:57				1.04
551	"		"		3:59				1.04
552	"		"		4:00			-:55	1.04
553	COMPEN	0.3	"	16584	4:01	8:05:28	20:50:28		1.05
554	"	"	"		4:02				1.05
555	MAYAL	20	"	6192	4:04				1.02
556	"	"	"		4:08	7:01:17	21:33:7		1.02
557	"	"	"		4:09				1.02
558	"	"	"		4:11				1.02
559	COMP 23	0.3	"	13312	4:18	7:03:25	21:30:52		1.02
560	"	0.3	"		4:14				1.02
561	NAP	30	"	2696	4:16				1.04
562	"	"	"		4:18	7:15:15	17:18:09		1.00
563	"	"	"		4:19				1.04
564	"	"	"		4:21				1.04

Telescope:

Frame prefix #: FR92B

Day of Week: W/TR

RA offset:

Focus:
Tailpiece:

Humdty:

Sheet #: 37

Observers: Hicks H.K.

Date MST/UT: 26/27

Dec offset:

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.)
565	COMP 19	0.3	V4R	412304	4:22	7:15:35	18:43:12		1.03 GUSTS TO 25 mph
566	"	"	"		4:24				1.03
567	1992AD	30	"	3532	4:26				1.02
568	"	"	"		4:28	7:57:34	21:46:36		1.02
569	"	"	"		4:30			-0:25	1.02
570	"	"	"		4:31				1.02
571	COMP CN	0.3	"	25984	4:33				1.03
572	"	"	"		4:35	8:05:27	20:50:14		1.03
573	MARAFZ	20	"	7584	4:34				1.03
574	"		"		4:43				1.03
575	"		"		4:45	7:01:16.2	21:37:31		1.03
576	"		"		4:46			+ 0:47	1.04
577	COMP 23	0.3	"	22848	4:48				1.04
578	"		"		4:49	7:03:24	21:30:55		1.04
579	NAF	30	"	3376	4:51				1.05

Telescope:

Humdty: Sheet #: 38

Focus: Tailpiece:
Balance:

RA offset:
Dec offset:

Frame prefix #: FR92-B
Day of Week: w/Thu
Observers: Hicks
Date MST/UT: 26/27
Seas

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.)
580	NAR	30	V+R		4:53	7:15:15	17:17:15		1.05
581	"		"		4:55				1.05
582	"		"		4:56			4:43	1.05
583	COMP 14	0.3	"	49151	4:58	7:15:35	18:42:51		1.05
584	"	"	"		4:59				1.05
585	1992AD	30	"	4896	5:01				1.02
586	"	"	"		5:04	7:57:34	21:46:34	4:08:	1.02
587	"	"	"		5:05				1.02
588	"	"	"		5:08				1.02
589	COMPEN	0.3	"	51200	5:09	8:05:28	20:50:29	+0:06	1.02
590	"	"	"		5:11				1.02
591	MAY	30	"	8224	5:15	7:11:17	21:33	+1:16	1.06
592	"		"		5:18				1.07
593	"		"		5:19				1.07
594	"		"		5:20				1.07

Telescope:

Frame prefix #: FR92B Day of Week: W/TW RA offset: Humdty: Sheet #: 39

Observers: Hicks Hoff Date MST/UT: 26/27 Dec offset: Temp O/I: Tailpiece: Balance:

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.)
595	comp 23	0.3	V+R	17600	5:22	7:3:25	21:30:51	4:21	1.07
596	"	"	"		5:23				1.07
597	NAP	30	"	2806	5:25	7:15:11	17:17:15	1:12	1.08 can into stars (near)
598	"	"	"		5:27				1.08 "
599	"	"	"		5:29				1.09 "
600	"	"	"		5:30				1.09 "
601	comp 19	0.3	"	4951	5:23	7:15:35	18:43:10	4:19	1.08
602	"	"	"		5:33				1.08
603	1992AD	30	"	4032	5:35	7:17:33	21:46:34	4:41	1.03
604	"	"	"		5:38				1.03
605	"	"	"		5:39				1.03
606	"	"	"		5:40				1.03
607	comp CN	0.3	"	44928	5:42	8:05:28	20:50:29	4:39	1.03
608	"	"	"		5:43				1.03
609	MAVALS	30	"	7844	5:46	7:11:15	21:32:04	4:47	1.11

Telescope:

Frame prefix #: FR92B Day of Week: VTh

RA offset:

Focus: Tailpiece:

Humdty:

Sheet #: 40

Observers: Hicks Hoffman Date MST/UT: 26/27

Dec offset:

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.)
610	MAYALL 20	30	V+R		5:48				1.12
611	"	"	"		5:49				1.12
612	"	"	"		5:51				1.12
613	Comp 23	0.3		2068	5:52	7:03:26	2:30:51	+1:51	1.12
614	"	"			5:53				1.13
615	NAP	30		3036	5:55	7:15:15	17:17:15	+1:42	1.13
616	"	"			5:57				1.13
617	"	"			5:59				1.14
618	"	"			6:00				1.14
619	Comp 17	0.3		4088	6:02	7:15:13	18:43:10	+1:49	1.13
620	"	0.3			6:03				1.14
621	1992AD	30		4201	6:07	7:57:33	2:146:34	+1:12	1.06
622	"	"			6:09				1.06
623	"	"			6:11				1.06
624	"	"			6:12				1.07

Telescope:

Frame prefix #: FR92B Day of Week: w/Th RA offset: Humdty: Sheet #: 41

Observers: Hicks Hobbes Date MST/UT: 2/6/27 Dec offset: Balance: Tailpiece: 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.)
625	COMPEN	0.3	V+R	49151	6:14	8:57:25	20:50:48	7:11	1.06
626	"	"			6:16				1.06
627	MAYALL	20		7152	6:18	7:11:15	21:32		1.19
628	"	"			6:20			2:21	1.20
629	"	"			6:21				1.20
630	"	"			6:22				1.20
631	COMP23	0.3		20544	6:23	7:3:25	21:30:51	2:23	1.20
632	"	"			6:25				1.20
633	NAP	30		3177	6:26	7:15:14	21:17:15	2:14	1.20 Grating image
634	"	"			6:30			2:17	1.21 "
635	"	"			6:31				1.21 "
636	"	"			6:32				1.22 "
637	COMP19	0.3		42304	6:34	7:15:35	18:43:11	2:21	1.21
638	"	"			6:35				1.22
639	1992AD	30		4112	6:38	7:57:33	21:46:24	7:44	1.11

Telescope:

Frame prefix #: FR92B Day of Week: W/TH Humdty: Sheet #: 42

Observers: H, ds Hob Date MST/UT: 26/27 Dec offset: Focus: Tailpiece: Balance: Temp O/I:

5 ears

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.)
640	1992AD	30	VHR		6:41				1.11
641	"	"			6:42				1.11
642	"	"			6:44				1.12
643	COMP CN	0.3		32768	6:45	8:15:25	20:50:48	+1:43	1.11
644	"	"			6:47			1:44	1.11
645	MAYALL	20		6192	6:50	7:11:15	21:32:04	2:52	1.30
646	"	"			6:52				1.31
647	"	"			6:54				1.31
648	"	"			6:55				1.32
649	COMP 23	0.3		18352	6:56	7:31:25	21:30:51	+2:56	1.31
650	"	"			6:58				1.32
651	NAP	30		from bands 3216	7:02	7:15:14	17:17:15	2:50	1.33
652	"	"			7:03				1.33
653	"	"			7:05				1.34
654	"	"			7:06				1.34

Telescope:

43

Frame prefix #: FR92B

Day of Week: w/Tue

RA offset:

Focus:

Humidity:

Sheet #:

Observers: Hicks Hoffmann Date MST/UT: 26/27
See 3

Dec offset:

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.)
655	comp 19	0.3	V+R	34752	7:08	7:15:33	18:43:10	2:55	1.34
656	"	"	"		7:10				1.34
657	1992AD	30		4752	7:12	7:57:33	21:46:34	2:17	1.18
658	"	"			7:14			2:19	1.19
659	"	"			7:15				1.19
660	"	"			7:17				1.20
661	comp 20	0.3		37888	7:18	8:5:25	20:50:48	2:16	1.18
662	"	"			7:20				1.19
663	ZERLINA	20		3776	7:33	10:41:18	-23:40:26		1.79
664	"	"			7:35				1.79
665	"	"			7:36				1.79
666	"	"			7:38				1.79
667	comp 13	0.4		10542	7:41	10:45:54	-23:57:50		1.81
668	"	"			7:42				1.81
669	KALBOUCH	20		6688	7:44				1.63

Telescope:

Humdty: Sheet #: 44

Focus: Tailpiece: Balance:

RA offset: Dec offset:

Frame prefix #: FR92B Day of Week: W/Thu
 Observers: Mike's Home Date MST/UT: 26/27
 See 3

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.)
670	KAL	20	VR		7:52	10:36:18	-19:29:09		1.63
671	"	"	"		7:53				1.63
672	"	"	"		7:54				1.63
673	COMP2	"	"		7:55				1.63
674	COMP2	0.2	"	32178	7:56	10:37:22	-20:14:27		1.66
675	"	"	"		7:58				1.66
676	1992AD	30	"	4160	8:03				1.57
677	"	"	"		8:06	7:57:32	21:47:00 +31		1.38
678	"	"	"		8:08				1.39
679	"	"	"		8:09				1.39
680	COMP2	0.3	"	30976	8:10	8:05:26	20:50:48		1.57
681	"	"	"		8:12				1.38
682	ZER	20	"	4176	8:15	10:41:18	23:46:25 +0:36		1.82
683	"	"	"		8:17				1.83
684	"	"	"		8:18				1.83

Telescope:

Frame prefix #: FR92B

Day of Week: w/TK

Humdty: Focus: Tailpiece: Balance:

Sheet #: 49

Observers: Hilda's Hobbies 20/27

RA offset: Dec offset:

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.)
685	ZER	20	V+R		8:20				1.85
686	COMP 13	0.4	"	6400	8:21	10:45:59	-23:57:47		1.84
687	"	"	"		8:24				1.85
688	KAL	20	"	4060	8:26	10:36:10	-19:30:11	+ : 55	1.68
689	"	"	"		8:28				1.68
690	"	"	"		8:29				1.69
691	"	"	"		8:31				1.69
692	COMP 22	0.2	"	25664	8:32	10:37:22	-20:15:09		1.72
693	"	"	"		9:33				1.72
694	1992AD	30	"	3955	8:35	7:57:33	21:46:34		1.55
695	"	"	"		8:38				1.56
696	"	"	"		8:39				1.57
697	"	"	"		8:40				1.58
698	COMPEN	0.3	"	23968	8:42	8:05:26	20:50:48		1.55
699	"	"	"		8:43				1.56

Telescope:

Frame prefix #: FR92B Day of Week: W/TKR RA offset: Humdty: Sheet #: 46

Observers: H. Hicks Hoffmann Date MST/UT: 2/6/27 Dec offset: 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.)
700	ZER	20	V+R	3251	8:47	10:41:18	-23:40:35		1.91
701	"	"	"		8:49				1.92
702	"	"	"		8:50				1.92
703	"	"	"		8:51				1.93
704	COMP13	0.4	"	7880	8:53	10:45:59	-23:57:47		1.94
705	"	"	"		8:54				1.93
706	KAL	20	"	4056	8:56	10:36:15	-14:30:11	±1:22	1.77
707	"	"	"		8:58				1.78
708	"	"	"		8:59				1.78
709	"	"	"		9:00				1.79
710	COMP22	0.2	"	24576	9:02	10:37:22	-20:15:09		1.82
711	"	"	"		9:03				1.83
712	1992AD	30	"	3992	9:05	7:57:34	21:46:34	+4:11:23	1.79
713	"	"	"		9:08				1.82
714	"	"	"		9:09				1.83

See 25

Telescope:

Frame prefix #: F1992B Day of Week: w/Th. RA offset: Humdty: Sheet #: 47

Observers: Hicks, Moore Date MST/UT: 26/27 Dec offset: 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.)
715	1992AD	30	V+R		9:11				1.85
716	COMPEN	0.3	"	23952	9:13	8:05:25	20:56:48		1.80
717	"	"	"		9:14				1.82
718	ZER	20	"	3705	9:17	10:41:15	23:29:23	+ 1:37	2.05
719	"	"	"		9:19				2.06
720	"	"	"		9:20				2.07
721	"	"	"		9:22				2.08
722	COMPB	0.4	"	6680	9:23	10:45:54	23:57:47		2.08
723	"	"	"		9:24				2.09 WINDS 225
724	KAL	20	"	5248	9:26	10:36:14	19:29:47	1:52	1.92
725	"	"	"		9:29				1.93
726	"	"	"		9:30				1.94
727	"	"	"		9:31				1.95
728	COMP22	0.2	"	19904	9:33	10:39:22	20:15:09		1.99
729	1992AD	30		4176	9:37	9:57:34	21:47:47		2:19

Telescope:

Frame prefix #: FR92B Day of Week: W/TK Humdty: Sheet #: 48

Observers: Halks, Hobbs, Sears Date MST/UT: 29/27 RA offset: Focus: 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.)
730	1992AD	30	V+R		9:40	7:57:34	121:46:35		2.23
731	"		"		9:41				2.24
732	"		"		9:42				2.27
733	COMP CV	0.3	"	2192	9:44	8:05:26	20:50:48		2.19
734	ZERN	20	"	3944	9:48	10:41:15	23:34:21		2.32
735	ZER	10	"		9:52				2.32
736	"	"	"		9:53				2.33
737	"	"	"		9:54				2.35
738	COMP B	0.4	"	5192	9:56	10:45:58	23:57:47		2.34
739	COMP S	0.4	"						
740	MAE	20	"	5320	9:59	10:36:13	-1912:9:44	+ 2:26	2.17
741	"	0	"		10:01				2.20
742	"	1	"		10:02				2.21
743	"	11	"		10:04				2.22
744	Comp 22	0.2	"	16384	10:05	10:37:22	-2015:18	2171	2.27

Telescope:

Frame prefix #: FR92B

Day of Week: W/Th

RA offset:

Humdty:

Sheet #: 49

Observers: Hicks Hoffmann
Sears

Date MST/UT: 26/27

Dec offset:

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.)
745	comp 22	0.2	VAR		10:06				2.29
746	170 SIVA	30		9992	10:13	12:29:08	1:11:23	+0:48	1.20
747	"	"			10:16				1.20
748	"	"			10:18				1.20
749	"	"			10:19				1.20
750	comp 26	0.3		21600	10:22	12:28:13	1:39:24	+0:57	1.20 SAO 11942-1
751	"	"			10:24				1.20
752	2001 Einstein	20		7104	10:28	13:36:36	14:23:37	-0:03	1.46
753	"	"			10:31				1.46
754	"	"			10:33				1.46
755	"	"			10:34				1.46
756	comp 30	0.3		3200	10:36	13:37:36	14:10:50	+0:02	1.46 SAO 158052
757	"	"			10:38				1.46
758	SIVA	30		8128	10:40	12:29:08	1:11:23	1:14	1.23
759	"	"			10:43				1.24

Telescope:

Frame prefix #: FR928 Day of Week: w/TK

RA offset:

Humdty: Tailpiece: Balance:

Sheet #: 50

Observers: Hicks Hoff Date MST/UT: 2/6/27

Dec offset:

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.)
760	SIVA	30	V+R		10:44				1.24
761	"	"			10:46				1.24
762	comp 26	0.3		24320	10:47	12:28:15	14:0:52	1:22	1.24
763	"	"			10:49				1.25
764	Einstein	20		6616	10:51	13:36:40	-14:23:46	0:17	1.47
765	"	"			10:54				1.47
766	"	"			10:55				1.47
767	"	"			10:56				1.47
768	comp 30	0.3		35968	10:57	13:37:38	-14:10:46	0:23	1.46
769	"	"			10:59				1.47
770	SIVA	30		9600	11:01	12:29:08	11:2:15	1:36	1.28
771	"	"			11:04				1.29
772	"	"			11:05				1.29
773	"	"			11:07				1.29
774	comp 26	0.3		15776	11:08	12:28:15	14:0:57	1:43:52	1.29

Telescope:

Frame prefix #: *EA923*

Day of Week: *w/TK*

RA offset:

Humdty: Tailpiece: Balance:

Sheet #: *51*

Observers: *Hicks, Hoken, Seay*

Date MST/UT: *26/27*

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.)
775	comp 26	0.3	V+R		11:10				1.30
776	Einstein	2.0		8512	11:12	13:36:40	-14:23:46	+0:39	1.49
777	"	"			11:15				1.49
778	"	"			11:16				1.49
779	"	"			11:12				1.49
780	comp 30	0.3		26432	11:19	13:37:38	-14:10:46	0:49	1.49 skipped 791
781	SVA	30		8000	11:23	12:28:05	11:41:32	1:59	1.34
783	SIVA	30			11:26				1.35
784	"	"			11:27				1.35
785	"	"			11:28				1.36
786	comp 26	0.3		27342	11:30	12:28:15	11:40:52	2:05	1.36
787	"	"			11:32			2:07	1.36
788	Einstein	2.0		8792	11:34	13:36:39	-14:24:34	2:01	1.53
789	"	2.0			11:36				1.53
790	"	2.0			11:40				1.54

Telescope:

Frame prefix #: FR9215

Day of Week: w/Th

RA offset:

Humdty:

Sheet #: 52

Observers: Hicks, Holt, *See*

Date MST/UT: 26/27

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
791	Einstein	20	VTR		11:41				1.54
792	comp 30	0.3		30464	11:42	13:37:38	-14:10:46	1:08	1.54
793	"	"			11:44				1.54
794	SIVA	30		9768	11:46	12:12:05	1:11:32	2:21	1.43
795	"	"			11:49				1.44
796	"	"			11:50				1.45
797	"	"			11:52				1.46
798	comp 20	0.3		22592	12:53	12:28:15	1:40:52		1.46
799	"	"			11:58				1.47
800	EINSTEIN	20		7795	11:59	13:36:39	1:48:24:34	1:26	1.60
801	"	"			12:02				1.61
802	"	"			12:03				1.61
803	"	"			12:04				1.62
804	comp 30	0.3		17816	12:05	13:37:38	-14:10:46	1:32	1.61

line skipped

Telescope:

Humdty: Sheet #: 53

Focus: Tailpiece:
Balance:

Temp O/I:

RA offset:

Day of Week: W/Th

Frame prefix #: FR92B

Dec offset:

Date MST/UT: 2/2/77

Observers: Hicks, H. K. ^{see}

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.)
805	comp 30	0.3	V4R		12:07				1.61
806	SIVA	30		10752	12:09	12:129:05	1:11:32	2:145	1.55
807	"	"			12:12				1.56
808	"	"			12:13				1.57
809	"	"			12:15				1.58
810	comp 26	0.3		19264	12:16	12:120:15	1:40:52	2:152	1.58
811	"	"			12:17				1.59
812	Einstein	20		6513	12:20	13:36:39	-14:24:34	2:147	1.68
813	"	"			12:24				1.70
814	"	"			12:26				1.70
815	"	"			12:27				1.71
816	comp 30	0.3		25792	12:28	13:27:38	-14:10:46	1:154	1.70
817	"	"			12:30				1.71
818	SIVA	30		7584	12:32	12:129:05	1:11:32	3:07	1.70
819	"	"			12:35				1.72

Telescope:

Frame prefix #: FR92B
 Day of Week: W/Th
 RA offset:
 Dec offset:
 Observers: Hicks, Hobbs
 Date MST/UT: 26/27
 Humdty:
 Temp O/I:
 Focus: Tailpiece:
 Balance:
 Sheet #: 54

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.)
820	S1VA	30	V+R		12:36				1.73
821	"	"			12:36				1.74
822	COMP26	0.3		20112	12:39	12:20:15	1:40:52	3:15	1.75
823	"	11			12:41				
824	EINSTEIN	20		4352	12:43	13:36:39	-14:24:34	+2:10	1.80
825	"	9			12:45				1.81
826	"	11			12:46				1.82
827	"	11			12:47				1.83
828	COMP30	0.3		15872	12:48	13:37:38	-14:10:46	2:14	1.82
829	"	0.3			12:50				1.83
830	Flat Field	0.1		41/c2	12:58				Varies at 60
831	"	0.1		4570 4441	12:59				
832	"	0.1			13:00				
833	"	0.4		15920 15520	13:02				
834	"	0.4			13:03				

Telescope: 61"

Frame prefix #: FR92B Day of Week: Thurs/Fri.

Humidity: 61% Sheet #: 1

Observers: Fink, Grundy, Hicks, Hofmann, Sears

RA offset: Dec offset:

Temp O/I: 30/34

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.)
	Setting up on FK4 star				~2:30	FR92B28GH			Guidepoint = (383, 395)
	spec. camera is all bundled up to keep it warm								
835	Mueller	30	0/Dichr	pk: 4000 ph: 120000					see spectroscopy notes →
836	SA77-0	5s	V+R			9:15:47.2	14:9:55	-1:36ish	1.14 (Central star)
837	SA77-VR2	300s	V+R	focus 3557	sky=12k	9:15:47.2	14:15:55		1.12-1.11 6' north $\alpha = -.0065$ $\delta = -.0030$
838	SA77-1J2	600s	IJ	focus 3523	sky=29k	9:15:47.1	14:15:52	-1:15	1.11-1.10
839	SA77-1J2	600s	IJ	focus "	sky=26k	9:15:46.8	14:15:48		1.10 - 1.08
840	SA77-1J2	600s	IJ	focus "	sky=25k	9:15:46.8	14:15:46.7	-:50	1.08-1.07
841	SA77-VR2	600s	V+R	focus 3556	sky=22k			-:40	1.07 -
842	Flat field	.2	V+R	24000					Variac +60
843	"	.2	"						"
844	"	.2	"						"
845	"	.1	IJ	focus 3520	31000				"
846	"	.09	"		26000				"
847	"	.09	"		28000				"

502 " " " "

Telescope: 6"

Frame prefix #: FR92B Day of Week: Thurs/Fri

RA offset:

Focus: 3560 Tailpiece:

Humdty: Sheet #: 2

Observers: Hoffmann, Gundy
Hicks, Sears Date MST/UT: 27/28

Dec offset:

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.)
848	STD Area 76-250	5	V+R						1.07
849	"	"	"			8:20:37	14:46:42		1.07
850	Kalbaugh	20	"	68k					1.73
851	"	"	"			10:34:54.5	-19:35:13		
852	"	"	"		6:22			-1:06	1.72
853	"	"	"		6:24			-1:04	1.71
854	Comp 22	.2	"	421k	6:27				1.74
855	"	"	"			10:37:22.6	-20:15:06	-1hr	1.73
856	1170 Siva	30	"	98k	6:36				1.55
857-859	"	"	"			12:28:17.8	1:10:38	-2:40	sec = 1.54, 1.53, 1.52 UT = 6:41, 6:42
860	COMP 26	0.3	"	223k	6:43			-2:38	1.50
861	"	"	"		6:46	12:28:21.7	01:37:54		1.49
862	Kalbaugh	20	"	63k	6:49			-:40	1.66
863-865	"	"	"			10:34:52.0	-19:35:16		1.65, 1.65, 1.65 ← sec 6:51, 6:52, 6:54 ← UT time
866	Comp 22	.2	"	426k	6:55				1.68
867	"	"	"		6:56	10:37:22.5	-20:15:06		1.67

Telescope: 61"

Frame prefix #: FR92B

Day of Week: Th/Fr

Humidity: Focus: Tailpiece:

Sheet #: 3

Observers: H, G, H, S

Date MST/UT: 27/28

RA offset: Dec offset:

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.)
868	1170 Siva	30	V4R	102k	6:59				1.44
869 → 871		"	"			12:28:16.5	+1:10:40	~2:20	1.43, 1.42, 1.42 7:01, 7:02, 7:04 ← sec Z ← UT time
872	Comp 26	0.3	"	234k	7:05			-2:17	1.40
873	"	"	"		7:06	12:28:21.5	+1:39:53		1.39
874	Kalbaugh	20	"	55k	7:10	10:34:50.6	-19:35:22	-1:18	1.63
875 → 877		"	"			10:34:50.6	-19:35:23	-1:14	1.63, 1.63, 1.63 7:12, 7:13, 7:14 ← sec Z ← UT time
878	Comp 22	0.2	"	429k	7:16				1.65
879	"	"	"		7:19	10:37:22.4	-20:15:05	-1:12	1.65 ← VME CRASHED AGAIN
880	SIVA	30	"	97k	7:21			-2:00 ^{hrs}	1.35
881 → 883		"	"			12:28:15.4	+1:10:47	-1:55	1.34, 1.34, 1.33 7:23, 7:25, 7:26 ← sec Z ← UT time
884	Comp 26	0.3	"	231k	7:28			-1:54	1.32
885	"	"	"		7:29	12:28:21.0	+1:40:07	-1:53	1.32
886	Kalbaugh	20	"	40k	7:31			+0:03	1.62
	887 → 889	"	"			10:34:48.9	-19:35:26		1.62, 1.63, 1.63 7:33, 7:34, 7:36 ← sec Z ← UT time
890	Comp 22	0.2	"	418k	7:37				1.65
891	"	"	"		7:39	10:37:22.3	-20:15:06	+1:08	1.65

Telescope: 61"

Day of Week: Th/Fr

Date MST/UT: 27/28

Frame prefix #: FR92B

Observers:

RA offset:

Dec offset:

Focus: Tailpiece:

Balance:

Humdty:

Temp O/I:

Sheet #: 4

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.)
892	SIVA	30	V+R	94k	7:41			-1:40	1.29
893	→ 895 "	"	"			12:28:14.0	+1:10:42		1.28, 1.28 7:44, 7:45, 7:46 ← Sec Z ← UT time
896	Comp 26	0.3	"	230k	7:48			-1:34	1.27
897	"	"	"		7:49	12:28:20.5	+1:40:03	-1:32	1.26
898	2001 Einstein	20	"	35k	7:58	13:36:22.6	-14:40:17	-2:32	1.97
899	→ 901 "	"	"			"	"		1.96, 1.95, 1.94 7:59, 8:00, 8:01 ← Sec Z ← UT time
902	Comp 30	0.3	"	287k	8:04	13:37:43.4	-14:09:56	-2:27	1.91
903	"	"	"		8:04	"	"	-2:26	1.90
904	KALBAUGH	20	"	44k	8:09	10:34:46.2	-19:35:32	+0:41	1.66
905	→ 907 "	"	"			"	"		1.66, 1.66, 1.67 ← Sec Z 8:11, 8:12, 8:13 ← UT time
908	Comp 22	0.2	"	398k	8:14			+1:44	1.69
909	"	"	"		8:16	10:37:22	-20:15:06	+1:45	1.69
910	SIVA	30	"	99k	8:25	12:28:07.3	+1:10:32	-0:57	1.21
911	→ 913 "	"	"			"	"		← could not find Siva right away 1.20, 1.20, 1.20 ← Sec Z 8:26, 8:27, 8:29 ← UT time
914	Comp 26	0.3	"	231k	8:31	12:28:16.3	+1:39:56	-0:50	1.19
915	"	"	"		8:32	"	"		1.19

Telescope: 61"

Frame prefix #: FR92B Day of Week: Th/Fr

Observers: Date MST/UT: 27/28

RA offset:

Dec offset:

Focus: Tailpiece:

Balance:

Humdty: Sheet #: 5

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.)
916	EINSTEIN	20	V+R	Phot: 86k	8:38	13:36:21.9	-14:41:47	-1:52	1.71
917	→ 919	"	"		8:43	"	"		1.70, 1.70, 1.69 8:39, 8:40, 8:41 ← sec Z ← UT time
920	Comp 30	0.3	"	Phot: 308k	8:43	"	"	-1:48	1.67
921	"	"	"	"	8:45	13:37:43.4	-14:10:25		1.66
922	KALBAUGH	20	"	Phot: 60k	8:47	"	"	+1:20	1.76
923	→ 925	"	"		8:54	10:34:43.2	-19:35:38		1.77, 1.77, 1.78 ← sec Z 8:50, 8:51, 8:52 ← UT time
926	Comp 22	0.2	"	Phot: 374k	8:54	"	"		1.80
927	"	"	"	"	8:55	10:37:21.8	-20:15:04	+1:25	1.81
928	SIVA	30	"	Phot: 107k	8:58	"	"	-0:23	1.18
929	→ 931	"	"		9:06	12:28:05.2	01:10:25		1.17, 1.17, 1.17 ← sec Z 9:02, 9:03, 9:04 ← UT time
932	Comp 26	0.3	"	Phot: 240k	9:06	"	"	-0:15	1.17
933	"	"	"	"	9:08	12:28:15.8	01:39:53	-0:14	1.17
934	EINSTEIN	20	"	Phot: 95k	9:14	13:36:17.4	-14:42:49	-1:16	1.57
935	→ 937	"	"		9:19	"	"		(JUMPED IN EAST) 1.57, 1.57, 1.56 ← sec Z 9:15, 9:16, 9:17 ← UT time
938	Comp 30	0.3	"	Phot: 314k	9:19	"	"	-1:12	1.55
939	"	"	"	303k	9:22	13:37:39.1	-14:10:58		1.54

Telescope: 61"

Seeing improving nicely

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Frame prefix #: FR92B Day of Week: Th/Fr

RA offset:

Humdty: Tailpiece:

Sheet #:

Observers: Date MST/UT: 27/28

Dec offset:

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.)
940	KALBAUGH	20	V+R	65k	9:25			+1:57	1.95
941	→ 943	"	"		9:25	10:34:41.0	-19:36:04		1.96, 1.97, 1.98 ← sec Z 9:27, 9:28, 9:30 ← UT time
944	Comp 22	0.2	"	Phot: 398k	9:31			+2:00	2.00
945	"	0.15	"	Phot: 311k	9:35	10:37:22.0	-20:15:16	+2:04	2.03
946	SIVA	30	"	Phot: 105k	9:40	12:28:02.6	+01:09:59	+0:19	1.17
947	→ 949	"	"		9:40	"	"		1.17, 1.17, 1.18 ← sec Z 9:42, 9:43, 9:44 ← UT time
950	COMP 26	0.3	"	Phot: 241k	9:46			+0:24	1.17
951	"	0.2	"	Phot: 159k	9:49	12:28:15.3	+1:39:29		1.17
952	EINSTEIN	20	"	Phot: 81k	9:57			-1: ?	1.49
953	→ 955	"	"		9:57	13:36:15.6	-14:43:32		1.49, 1.48, 1.48 ← sec Z , 10:00, 10:01 ← UT time
956	COMP 30	0.3	"	Phot: 320k	10:03			-0:28	1.47
957	"	0.2	"	Phot: 212k	10:05	13:37:38.8	-14:10:59	-0:26	1.47
958	KALBAUGH	20	"	Phot: 36k	10:10	10:34:39.0	-19:36:05	+2:42	2.35
959	→ 961	"	"		10:10	"	"		2.37, 2.39, 2.40 ← sec Z 10:11, 10:12, 10:13 ← UT time
962	Comp 22	0.15	"	Phot: 284k	10:15			+2:44	2.43
963	"	"	"		10:16	10:37:22.5	-20:15:07		2.45

← VME CRASHED AGAIN

← VME CRASHED AGAIN (#952 shutter stuck open)

Telescope: 61"

Frame prefix #: FR92B

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 7

Observers:

Date MST/UT:

Dec offset:

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.)
964	SIVA	30	V+R	Phot: 102k	10:19			+0:58	1,21
965-967	"	"	"			12:27:59.9	1:09:58.8		1,21, 1,22, 10:22, 10:23, 10:25 ← Sec Z ← UT time
968	Comp 26	0.2	"	Phot: 161k	10:26			+1:05	1,21
969	"	"	"		10:27	12:28:14.6	1:39:31	+1:06	1,21
970	EINSTEIN	20	"	Phot: 55k	10:30			transit	1,47
971 → 973	"	"	"			13:36:14.5	-14:43:59		1,47, 1,47, 10:32, 10:33, 10:34 ← Sec Z ← UT time
974	Comp 30	0.2	"	Phot: 216k	10:36			+0:05	1,46
975	"	"	"		10:37	13:37:38.6	-14:10:59		1,46
976	SIVA	30	"	Phot: 103k	10:40			+1:19	1,24
977 → 979	"	"	"			12:27:59.1	+1:10:00		1,25, 1,25, 10:42, 10:43, 10:45 ← Sec Z ← UT time
980	Comp 26	0.2	"	Phot: 155k	10:46			+1:25	1,25
981	"	"	"		10:47	12:28:14.4	1:39:32	+1:26	1,25 ← more liquid N ₂ in dewars.
982	EINSTEIN	20	"	Phot: 53k	10:53			+0:23	1,48
983 → 985	"	"	"			13:36:14.0	-14:44:21		1,48, 1,48, 10:55, 10:56, 10:58 ← Sec Z ← UT time
986	Comp 30	0.2	"	Phot: 211k	11:00			+0:29	1,47
987	"	"	"		11:02	13:37:38.4	-14:11:02	+0:31	1,47

Telescope: 61"

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Frame prefix #: FR92B Day of Week: Th/Fri

RA offset:

Focus:

Humidity:

Sheet #:

Observers: FX92B Date MST/UT: 27/28

Dec offset:

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.)
988	SIVA	30	V+R	Phot: 100k	11:04			+1:43	1.30
989	→ 991	"	"			12:27:57.3	+01:09:58		1.31, 1.31, 1.31 ← Sec Z 1.31, 1.31, 1.31 ← UT time
992	Comp 26	0.2	"	Phot: 156k	11:12			+1:50	1.31
993	"	0.2	"		11:14	12:28:14.2	+1:39:31	+1:53	1.32
994	EINSTEIN	20	"	Phot: 89k	11:16			+0:47	1.51
995	→ 997	"	"			13:36:13.1	-14:14:41		1.51, 1.52, 1.52 ← Sec Z 11:20, 11:21, 11:22 ← UT time
998	Comp 30	0.2	"	Phot: 210k	11:23			+1:52	1.50
999	"	"	"		11:25	13:37:37.9	-14:11:02	+1:54	1.51
000	SIVA	30	"	Phot: 105k	11:27			+2:06	1.37
001	→ 003	"	"			12:27:56.7	+1:09:57		1.38, 1.38, 1.39 ← Sec Z 11:29, 11:31, 11:32 ← UT
004	Comp 26	0.2	"	Phot: 152k	11:34			+2:13	1.39
005	"	"	"		11:36	12:28:14.2	+1:39:32		1.39
006	EINSTEIN	20	"	Phot: 102k	11:38			+1:09	1.56
007	→ 009	"	"			13:36:12.5	-14:44:49		1.56, 1.57, 1.57 ← Sec Z 11:42, 11:43, 11:44 ← UT
010	Comp 30	0.2	"	Phot: 209k	11:45			+1:14	1.55
011	"	"	"		11:47	13:37:37.7	-14:10:53	+1:16	1.56

FX92B

