

specimens

frames 1 → 50 have been written to tape

Telescope: 61"

Frame prefix #: SP12A

Day of Week: Thru

RA offset:

Focus: 100

Humidity: 65%

Sheet #: 7

Observers: F. H. H.

Date MST/UT: Jan 24/31

Dec offset:

Tailpiece:

Temp O/I: 28/32

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST/UT	RA set	Dec set	Hour-angle exp-start	Comments
001									
002									
003									
004									
005									
006	Zenith	60 sec	0.25		2:05	23:40:32.7	-13:35:25	3:40/2:12	bad fixed pattern noise in dashes
007	"	30	"		2:21	27:15	36:13	3:57/2:48	
008	"	30	"	260/120	2:28	31:5	36:30	4:03/3:14	Note ~ 16-17a
009	"	"	"	240/110	2:33	41:4	36:44	4:20/3:49	
010	BS88	1.0	"	880				3:45/2:41	- pattern not independent for this exposure
011	"	50	"	11000	2:53	0:22 22:6	-12 14 42	3:46/2:44	- then came back straight could not get rid of it
012	"	50	"	2240	2:56			3:49/2:02	
013	"	"	"	10300	3:05	22 307	-12 13:54	3:58/3:29	- After camera stopped under at change in long cable fixed that
014	"	"	"	17000	3:10			4:03/3:41	
015	"	"	"	10200	3:11	2:52	13:41	4:09/3:20	- Next day long cable worked again

After fixed pattern noise came & not next day

Tape 1

SPECTRA

Telescope: 61"

JANUARY/FEBRUARY

Frame prefix #: SP92A

Day of Week: Fri/Sat.

RA offset:

Focus:

Humdty: 60% Sheet #: 2

Observers: Fink et al.

Date MST/UT: 31/1

Dec offset:

Tailpiece:

Temp O/I: 31/35 OF

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.)
16	ZAN-BREW	60	Dichro 0.5mm	800/3000	1:53	23:45:29	-15:41:54		sec z = 2.72 sky still
17	"	300	"	6000/10000	1:55	23:45:30.20	-15:51:4.5	+ 3:28	sec z = 2.78 twilight
18	"	"	"	/	2:00			+ 3:34	sec z = 2.89 (minor guiding problems)
19	"	"	"		2:06				sec z = 3.04
20	"	"	"		2:11			+ 3:45	sec z = 3.20
21	"	"	"		2:17			+ 3:51	sec z = 3.37
22	"	"	"		2:23			+ 3:56	sec z = 3.57 h → 3.
23	BS 88	55	"	22000	2:35				2.63
24	"	"	"	30000	2:36:30				2.64
25	"	"	"		2:44				2.80
26	"	"	"	29100	2:45				2.82
27	"	"	"	19000	2:52				3.00
28	"	"	"	12000	2:53				3.03
29	"	"	"	25000	2:59				3.20
30	"	"	"	21000	3:00				3.23

Telescope: 61"

Frame prefix #: SP92A

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty: 65% Sheet #: 3

Observers: Fink et al.

Date MST/UT: 3/1

Dec offset:

Tailpiece:

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 2	Comments
31	BS 88	5s	.5mm		3:05			+4:01	3.41	
32	"	"	"	18000	3:06			+4:02	3.44	
33	"	"	"	10000	3:10				3.60	
34	"	"	"	6300	3:11				3.63	
35	BS 718	.5	1.0mm	8000	3:16				1.27	
36	"	1.0	"	17000					"	
37	"	"	"	17000	3:18	2:27:43	+8:25:52	+2:10	1.28	
38	"	"	"	12000	3:19			+2:11	"	—clouds are
39	1992 AD	300	.5	~50 counts	3:51	8:14:16	20:53:44	-2:53	1.31	approaching
40	"	600	.5	~150 counts	3:57			-2:48	1.29	—clouds are here
41	"	600	.5	"	4:08			-2:37	1.25	—clouds are ugly
42	comp 27	600	.5	17000	4:22				1.41	(mostly cirrus)
43	"	"	"	29000	4:23			-3:26	1.40	
44	"	"	"	50000	4:25				1.40	(saturated)
45	1992 AD	600	"	300 counts	4:31	8:14:15	20:53:8	-2:14	1.18	—a gap in the clouds

Telescope: 61"

SPECTRA

Frame prefix #: SP92A

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 4

Observers: Fink et al.

Date MST/UT: 31/1

Dec offset:

Tailpiece:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start	RA	Dec	Hour-angle exp-start	Sec Z	Comments
46	1992AD	600	.5	Machine crashed!	4:42	8:04:15	20:53:07	-2:03	1.15	clouds are receding machine crashed on readout
47	"	600	"	200 counts	5:00			-1:44	1.11	Bias level is higher, following crash (cable failure)
47	"	600	"	300 counts	5:10	8:4:14	20:53:06	-1:34	1.09	(clouds receding even more)
Bailed out	"	1200	"		5:21			-1:23	1.08	Jumped, star moved into slit, 1992 AD lost
48	"	600	"	100 counts	5:35	8:4:10	20:53:14	-1:09	1.06	General anarchy, and even more clouds.
49	"	"	"	300 counts	5:46			-0:58	1.05	observed interior of dome a bit
50	Comp 27	2	.5	27000	6:04			-1:44	1.09	bias level normal again
51	"	"	"	24000	6:05			-1:44	1.09	
52	"	"	"	23000	6:06				1.09	
53	"	"	"	21000	6:09				1.08	
54	1992 AD	600	.5	good 400 counts	6:15			-0:29	1.03	"The sky is striped"
55	"	"	"	ok 300 counts	6:26	8:4:17	20:52:54	-0:18	1.02	like a tiger." (clouds)
56	"	"	"	200 counts	6:39	8:4:17	20:52:56	-0:05	1.02	Heavy clouds at end of exp.
57	"	"	"	higher sky level 150 counts	6:50			+0:06	1.02	variable cloudiness
58	"	"	"	200 counts	7:00	8:4:16	20:52:58		1.02	2 stars in slit also, north of 1992 AD

Type 1

JANUARY 1

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Wednesday

RA offset:

Focus: 3860

Humidity: 60% Sheet #:

Fink, Hoffmann,

Sears

Tailpiece: 34.3

Balance: 364

Temp 011: 31/35 at 7:00 MST

Observers: Grundy, Hicks, 29/30

Dec offset:

Iris: 300

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start	RA set	Dec set	Hour-angle exp-start	Comments
	FK4*1106				4:14				Guide point: (340, 390)
	Long camera		has	bad behavior.	4:15				Bias ~ 10000.  humidity = 54% (T = 31/35)
	It turns out the filter				4:16				mechanism ruins the camera w/ its LEDs scattered light
	This keeps us occupied				4:18				for several hours. We set up on FK4-1106
	FK4*1214		(closer to		4:19				asteroid 1803 Zwicky) came up near bottom of screen
	1803 Zwicky	30s	V4R	Peak: 11000	4:20				[saving 512x512] ZW192A30.GH
1	"	20s	V4R		4:21				
2	"	"	"		4:22				
3	"	"	"		4:23				
4	"	"	"		4:24				
5	SAD 42217 #5 Comp*	.2	"	PK 44K Phot 290K	4:25				
6	"	"	"		4:26				
7	Zwicky	20s	"		4:27				
8	"	"	"		4:28				
9	"	"	"		4:29				
10	"	"	"		4:30				

512²256²512²

Telescope: 61"

2

Frame prefix #: FR92A

Day of Week: Wed,

RA offset:

Focus:
Tailpiece:

Humdty:

Sheet #:

Observers: Fink, Hoffman,
Grundy, Hicks, Sears

Date MST/UT: 29/30

Dec offset:

Temp O/I:

(340, 340)

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments
11	Comp 5	.2	V+R		4:45				Oh no!
12	"	"	"		4:46				(Guiding doesn't work!)
12	Zwicky	20.	V+R						then we run argosaug.10
13	"	"	"		5:04				
14	"	"	"		5:08				
15	"	"	"		5:10				(fail light on serial)
16	"	"	"		5:11				seemed to fix guiding
17	"	"	"		5:14				
18	"	"	"		5:17				
19	Comp 5	.2	V+R		5:23	8:11:24.5	43:19:33		
20	"	"	"		5:24				
21	Zwicky	20.	V+R		5:28				
22	"	20s	"		5:33				
23	"	"	"		5:35				
24	"	"	"		5:40				

256²

Telescope: 61"

Frame prefix #: FR92A Day of Week: Wed.

RA offset:

Focus:
Tailpiece:

Humdty: 63% Sheet #: 3

Observers: Fink etc.

Date MST/UT: 29/30

Dec offset:

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
	1992ad	30s	V+R	PK: 7144 Phot: 4444					→ New 92A30.6H
25	1992ad	"	"			8:4:48.2	20:49:19		
26	"	"	"						
27	"	"	"						
28	"	"	"						
29	1992ad COMPAD	0.2s	"	PK 28,84 Po 2204		8:5:28	20:50:13		
30	"	0.3	"						
31	1992ad	30s	"	PK 64 Phot: 1404					
32	"	"	"						
33	"	"	"						
34	"	"	"						
35	COMPAD	0.3	"						
36	"	0.3	"						
37	ZWICKY	20s	PK PK	PK = Phot =					
38	"	"	"	PK 44 PK 514					

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Telescope: C1"

Frame prefix #: FR92A

Day of Week: Wed

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 4

Observers: P.K. et al

Date MST/UT: 29/30

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.)
39	Zwicky	20	U+R						
40	"	"	"						
41	COMPS	0.2	"						
42	"	0.2	"	PK = Phot = 384					
43	1992 AD	30s	"	PK = 64 Phot = 384					
44	"	30	"	"	7:17				
45	"	"	"						
46	"	"	"						
47	COMPAD	0.3	"						
48	"	0.3	"						
49	Zwicky	20s	"						
50	"	"	"						
51	"	"	"						
52	"	"	"						
53	COMDS	0.2							

Telescope: 61"

Frame prefix #: FR91A

Day of Week: Wed

RA offset:

Focus:
Tailpiece:

Humidity: 74% Sheet #: 5

Observers: Fink et al

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.)
54	COMPS	0.2	V+R	"					
55	1992AD	30	V+R	Phot 366					
56	"	"	"						
57	"	"	"						
58	"	"	"						
59	COMP AD	6.3	"						
60	"	"							
61	ZWICKY	20s	"	Phot=63K					
62	"	"	"		8:07				
63	"	"	"						
64	"	"	"						
65	COMPS	0.2	"						
66	"	"	"						
67	1992AD	30	V+R		8:18				
68	"	"	"						

Telescope:

Frame prefix #: **FR92A** Day of Week:

RA offset:

Humdty: **77** Sheet #: **C**Focus:
Tailpiece:

Dec offset:

Temp O/I:

Date MST/UT:

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.)
69	1992AD	30"	V+R						
70	"	"	"			070			mining; was not saved
71	COMPAD	0.3	"		8:26				
72	"	0.3	"			072			mining
73	Zwicky	20s	"		8:30				
74	"	"	"						
75	"	"	"						
76	"	"	"						
77	COMP5	0.2	"						
78	"	0.2	"						
79	1992AD	30s	"		8:41				
80	"	"	"						
81	"	"	"						
82	"	"	"						
83	COMPAD	0.3							May be garbage (object comps)

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Telescope: 61"

Frame prefix #: PR92A Day of Week: Wed

RA offset:

Humdty: 80 Sheet #: 7

Observers: Fink et al Date MST/UT:

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.)
84	COMP AD	0.3	V+R						
85	COMP AD	0.3	"						
86	ZWICKY	20s	"		8:54				
87	"	"	"						
88	"	"	"						
89	"	"							
90	COMP 5	0.2	"						
91	"	0.2							
92	1992AD	30s			9:05			092	mirag
93	"	"							
94	"	"							
95	"	"							
96	COMP AD	0.3							
97	"	0.3							
98	ZWICKY	20s			9:16				

Telescope: 61"

Frame prefix #: FR92A Day of Week: wed Humdty: 80 Sheet #: 8
Observers: Fink et al Date MST/UT: 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.)
99	Zwicky	20s	V-R						
100	"	"	"						
101	"	"	"						
102	COMP 5	0.2	"						
103	"	"	"						
104	1992AD	30s	"	34K	9:26				
105	"	"	"						
106	"	"	"						
107	"	"	"						
108	COMPAD	0.2	"		9:33				
109	"	"	"						
110	ZWICKY	20	"		9:37				
111			"						
112			"					2:41 / 1,20	
113			"						

Tr 9

Telescope: 6"

Frame prefix #: FR92A Day of Week: Wed
 Observers: Fink et al Date MST/UT:

RA offset:
 Dec offset:

Focus: Humdty: 80 Sheet #: 9
 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	Comments (P.A., seeing, Moon, clouds, etc.)
114	Comp 5	0.2	V-R						
115	"	"	"						
116	1992AD	30			9:47			2:54 / 1.31	
117	"	"							
118	"	"			9:49				
119	"	"			9:51			3:00 / 1.34	
120	CompAD	0.3			9:53			3:01 / 1.34	
121	"	"							
122	ZWICKY	20			9:56	12:20	41:59	2:56 / 1.24	
123	"	"							
124	"	"							
125	"	"			10:01			3:02 / 1.25	
126	Comp 5	0.2			10:03			3:05 / 1.26	
127	"	"							
128	1992AD	30			10:07			3:16 / 1.41	

Telescope: 61"

Frame prefix #: FR 92A Day of Week: Wed

Humdty: 79 Sheet #: 10

Observers: Fink et al

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.)
129	1992AD	30	V-R						File on Sys dis
130	Comp AD	0.3			10:17	8:05	20:49	3:24/1.46	back to INA
131	"	"			10:19				
132	"	"							
133	"	"							
134	1992AD	30			10:24			3:32/1.50	Switch to sys disk
135	"	"			"				
136	ZWICKY	20			10:29			3:30/1.35	
137	"	"							
138	comp S	0.2			10:31			3:38/1.37	
139	"	"							
140	1992AD	30			10:38			3:46/1.60	
141	"	"							
142	Comp AD	0.3			10:43			3:50/1.63	
143	"	0.3							

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SYS

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Telescope: 61"

Frame prefix #: FR92A Day of Week: Wed

RA offset:

Focus:
Tailpiece:

Humidity: 80% Sheet #: 11

Observers: Fink et al. Date MST/UT: 29/30

Dec offset:

Temp 0/I: 25/30

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.)
144	ZWICKY	20	V-R		10:47			3:48/1.43	
145	"	"							
146	comp 5	0.2						3:55/1.46	
147	"	"							
148	1992 AD	30			10:56			4:05/1.75	
149	"	"			10:59			4:07/1.78	
150	Comp AD	0.3			11:01			4:08/1.79	
151	"	"							
152	ZWICKY	20			11:04			4:04/1.51	
153	"	"			11:06			4:06/1.52	
154	comp 5	0.2			11:06	8:11	43:18	4:08/1.53	
155	"	"							
156	1992 AD	30			11:10	8:04	20:49	4:18/1.90	
157									
158	comp AD	0.3			11:14			4:21/1.92	

T.H.F.

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Wed

RA offset:

Focus:

Humdty:

Sheet #: 12

Observers: Link et al

Date MST/UT:

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.)
159	comp AD	0.7	V-R						
160	ZWICKY	2.0		11:16				4:17/1.58	
161	"								
162	comp S	0.2		11:19				4:21/1.60	
163	"								
164	1992AD	3.0		11:23				4:31/2.05	
165				11:26				4:34/2.09	
166	comp AD	0.7		11:29				4:36/2.12	
167								2.14	
168	ZWICKY	2.0		11:31				4:32/1.69	
169				11:33				4:33/1.70	
170	comp 5	0.2		11:38				4:34/1.7	
171	"								
172	LOA 104306	.5		12:00				+136 1.21	
173	"	.3		12:04					Sys disk full!
174	"	.3							

12:05 ← saved as FR92A001 after writing to tape
then again removed to 174

Frame prefix #: F292A
Observers: K et al

Humdty: 78% Sheet #: 13

Focus:
Tailpiece:
Balance:

RA offset:
Dec offset:

Day of Week: wed
Date MST/UT:

Frame prefix #: F292A
Observers: K et al

[illegible]

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Thursday

RA offset:

Focus:

Humidity: 62% Sheet #: 14

Observers: Fink et al.

Date MST/UT: 30/31

Dec offset:

Tailpiece:

Temp O/I: 28/33

180

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.)
	Fk4*	set	spectroscopy	guide	point = (377, 405)				(to avoid warm spot on chip)
180	P/Comet Zan-Brewi	30	B/Dichr	Ph 5600 Phot 180K	2:03	23:40:32	-13:35:19		ZAN92A31.GH ← Guide history file
181	"	"	"	"	2:16(?)			3:34 =	sec Z
182	"	"	"	"	2:28				sec Z = 3.65
183	"	"	"	"	2:38	23:40:44	-13:37:00		sec Z = 4.14 (Vignetted about 1/4)
	asteroid 1992 AD	"	V+R	← wrong in Fitzheader					AD92A31.GH ← Guide History file
184	"	"	"	Ph: 4000 Phot: 32K	3:33				Set file = XAD, SF
185	"	"	"	"	4:03	8:44:37	20:51:7		sec Z = 1.28
186	"	"	"	"	4:05				
187	"	"	"	"	4:07				
188	"	"	"	"	4:08			-2:40	sec Z = 1.26
189	Comp AD .3	.3	"	Ph: 31K Phot: 323K	4:16				
190	"	"	"	"	4:17				sec Z = 1.23
191	Comp AD .3	.3	"		4:40?				sec Z = 1.17
192	"	"	"		4:42			-2:07	sec Z = 1.16

512²

"

256²

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512²400²

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"

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256²

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Telescope: 61"

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Frame prefix #: FR92A

Day of Week: Thursday

RA offset:

Focus: 0

Humidity: 62%

Sheet #: 15

Observers: Fink et al.

Date MST/UT: 30/31

Dec offset:

Tailpiece: Balance:

Temp O/I: 30/33

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.)
193	1992 AD	30	V+R	"					~1.15(?)
194	"	"	"	PK = 7K PHOT = 34K	4:47			-2:02	1.15
195	"	"	"		4:49				1.14
196	"	"	"		4:51				1.14
197	COMP AD	.3	"	PK = 45K PHOT = 339K	4:53				1.14
198	"	"	"		4:54				
199	DURER	20	V+R	PK 15K PHOT = 103K	5:10	7:50:51	-2:43:8		1.32
200	"	20	"						1.31
201	"	20	"	PK = 16K PHOT = 97K					1.29 jump in east
202	"	"	"						
203	COMP 10	0.3	V+R	PK = 38K PHOT = 245K	5:38				1.27
204	"	0.3	"	"					
205	1992 AD	30	V+R	PK = 7K PHOT = 30K	5:49				1.05
206	"	30	V+R	"					1.05
207	"	"							1.05

400²

Telescope: 61"

Frame prefix #: FR92A

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 16

Observers: Fink et al.

Date MST/UT:

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.)
208	1992AD	30	"						1.64
209	COMPAD	0.3	V+R		57				1.04
210	"	0.3	"		6:00				1.04
211	DURER	205	V+R	Phot 90%					1.24
212	"	205	"						1.24
213	"	"	"						
214	"	"	V+R		6:09				1.23
215	COMP 10	0.3	"						1.24
216	"	"	"						1.24
217	1992AD	30	"		6:15				1.03
218	"	"	"						1.63
219	"	"	"						
220	"	"	"						
221	COMPAD	0.3							1.63
222	"	0.3							1.03

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Thur

RA offset:

Focus:

Humdty: Sheet #: 17

Tailpiece:

Observers: Fink et al.

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.)
223	DUBER	20s	V+R	Phot 93K					1.22 Computer Hang
224	"	"	"						
225	"	"	"						1.22
226	"	20s	V+R						
227	COMP10	0.3	V+R	Phot 236					1.23
228	"	0.3	"						
229	1992AD	30	"		6:47				1.02
230	"	"	"						
231	"	"	"	Phot=38K					1.02
232	"	"	"		6:54				
233	COMPAD	0.3	"	Phot=343					1.02
234	"	"	"						
235	SA76-280	5.0	"						1.05
236	"	"	"						1.05
237	"	"	"						"

Telescope: 61"

Frame prefix #: FR924 Day of Week: Thur

Humdty: 62% Sheet #: 13

Focus:
Tailpiece:
Balance:RA offset:
Dec offset:

Temp 0/I:

Observers: Fink et al 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.)
238	DURER	20s	VR	PH=106	7:11				1.24
239	"	"	"						1.24
240	"	"	"						1.25
241	"	20s	"						
242	COMP10	0.3	"						1.26
243	"	"	"		7:22				1.26
244	1992AD	30s	"	PH=424	7:27				1.43
245	"	"	"						1.43
246	"	"	"						
247	"	"	"						1.44
248	COMP AB	0.3	"		7:35				1.44
249	"	0.3	"						
250	DURER	20s	"	PH=99K					1.28
251	"	"	"		7:42				1.28
252	"	"	"						

Telescope: 61"

Frame prefix #: FR92A Day of Week: Thur

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 19

Observers: Finkert, z1 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.)
253	Durer	20s	U+R						1.28
254	COMP 10	0.3	"	PA 237K					1.30
255	"	"	"						1.30
256	1992 AD	30s	"	PK 6K TH 38K	7:53				1.45
257	"	"	"	"					1.46
258	"	"	"						
259	"	"	"						1.46
260	COMP AD	0.3s	"		7:59				1.46
261	"	"	"						
262	Durer	20s	"	PK = 10K TH = 402K					1.33
263	"	"	"						1.34
264	"	"	"		8:11				1.34
265	"	"	"						1.35
266	COMP 10	0.3	"						1.37
267	"	"	"		8:15				

1306 1600

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Thu

RA offset:

Humdty: Sheet #: 20

Focus:
Tailpiece:

Observers: Fink et al, 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.)
268	1992AD	30s	V+R	PK = 6K Phot = 36K	8:18				1.09
269	"	"	"						1.09
270	"	"	"						1.10
271	"	"	"						
272	COMPAD	0.3	"	PK = 36K Phot = 341K	8:28				1.10
273	"	"	"						1.10
274	ERMINIA	5.0	"	⋈	PK = 27K Phot = 30K				1.02
275	"	"	"						"
276	"	"	"						
277	"	"	"						
278	COMP26	0.2	"	PK = 36K Phot = 357K					1.02
279	"	"	"						
280	1992AD	30s	"		PK = 6K Phot = 24K				
281	"	"	"						1.19
282	"	"	"						

Telescope: 61"

Frame prefix #: FR92A Day of Week: Thur

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 21

Date MST/UT:

Dec offset:

Temp O/I:

Observers: Fink et al.

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.)
283	1992AD	30s	V4R						
284	COMP AD	0.3	"		9:11				1.20
285	"	"	"						1.21
286	DURER	20	"	PK BK PH BK					
287	"	"	"						1.64
288	"	"	"						1.65
289	"	"	"						1.66
290	COMP10	0.3	"		9:26				1.72
291	"	"	"						1.72
292	ERMINIA	5.0	"		9:32				1.03 <u>54s</u> DISK New
293	"	"	"						
294	"	"	"						1.04
295	"	"	"						
296	COMP20	0.2	"	PK PH	9:39				1.03
297	"	"	"						1.03

IMA BACK ON LINE

194-φ

Telescope: 61"

Frame prefix #: FR92A

Day of Week: Thur

RA offset: 6

Focus: 6

Humdty: 6

Sheet #: 22

Observers: Fmkct21

Date MST/UT:

Dec offset: X

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.)
298	1992A	30	V+R	PK 4K Pht 30K					1.35
299	"	"	"		9:57				1.38
300	"	"	"						1.39 Clouds moving in object still clear
301	"	"	"						1.39
-302 GONE									
303	COMP AD	0.3	"	PK 34K Pht 320K					1.40
304	"	0.3	"						1.41
305	DURER	20	"						2.172
306	"	"	"						2.18
307	"	"	"						2.16
308	"	"		68K/2.4K					2.21
309	COMP 10	0.3	"						2.30,
310	"	"	"						2.32
311	ER MINIA	5.0	"	249K/920	10:28				1.09
312	"	"							
313	"								

Telescope: 61"

Frame prefix #: FR9911 Day of Week: Thu

Humidity: Sheet #: 28

Observers: Finkler Date MST/UT: 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.)
314	ERMIDIA	5.0	V4R		10:30				1.09
315	COMP 26	5.0	"			790 sky			1.08
316	"	"	"						1.08
317	1992 AD	30 s	V4R	ob 33K sky 2403					1.64
318	"	"	"						1.65
319	"	"	"		10:42				1.66
320	"	"	"						1.68
321	COMP AD	0.3	"						1.69
322	"	"	"						1.71
323	Durer	20	"	ob 68K sky 2300					3.05
324	"	"	"		10:56				3.10
325	"	"	"						3.13
326	"	"	"						3.18
327	COMP 10	0.3	"						3.35
328	"	"	"						3.45

Telescope: 61"

Frame prefix #: FR92A Day of Week: Thur

RA offset:

Focus: Tailpiece:
Humdty: Balance:

Sheet #: 24

Observers: Fink et al 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.)
329	ERANINA	5.03	U+R	ob: sky 905	11:07				1.16
330	"	"	"						1.16
331	"	"	"						1.16
332	"	"	"						1.16
333	COMP 26	0.2	"						1.16
334	"	"	"						1.16
335	1992 AD	303	"	ob: 25k sky: 2200					2.02
336	"	"	"						2.08
337	"	"	"						2.10
338	"	"	"						2.12
339	COMP 27	0.3	"						2.13
340	"	"	"						2.17
341	"	"	"						2.18
342	ERANINA	20	"	ob: 900k sky: 900					1.21
343									IN FILE

SAVED AS
DYPER

IN FILE

images
342-343-344

Telescope: 61"

Frame prefix #: FR97A

Day of Week: Thu

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 25

Observers: Fink et al

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.)
344	ERMINIA	10	V+R	ob: 355K sky: 1056					1.25
345	COMP 26	0.3	"	ob: 500K sky: 784					1.23 SAVED AS
346	"	0.3	"						1.24 COMP 10 IN FITS
347		0.3							
348	1992 AD	30	V+R		11:54				2.67
349	"	30	"	ob 16K sky: 2480					2.75
350	"	"	"						2.80
351	"	30	"						2.85-8
352	COMPAD	0.3	"	ob sky 800					2.89
353	"	0.3	"						2.96
354	"	"	"						2.98
355	ERMINIA	5	"	ob 235K sky 932					1.33
356	"	5	"						1.36 ←
357	"	5	"						1.36
358	"	5	"						1.36

Telescope: 61"

Frame prefix #: PR221

Day of Week: Thu

RA offset:

Focus:
Tailpiece:

Humdty: Sheet #: 20

Observers: Finkelt

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.)
359	COMP26	0.2	V+R			10:07	43:64		1.34
360	"	"	"						1.35
361	"	"	"						
362	ERM11A	5	"						1.39
363	"	5	"						1.40
364	"	"	"	ob 2584 SK 932					1.40
365	COMP26	0.2	"	ob 3024 SK 777					1.42
366	"	"	"						
367	"	"	"						
368	ERM11A	5		ob 2504 SK 432	12:49				1.51
369	"	5							
370	"	5			12:52				1.52
371	"	5							1.53
372	FF	0.4			PK 364				Varisc 60
373	FF	0.4			PK 364				Varisc 60

Telescope:

Frame prefix #: FR92A

Day of Week:

RA offset:

Focus:
Tailpiece:
Balance:

Humdty:

Sheet #: 23

Observers: $F_{1n} Kct 21$

Date MST/UT:

Dec offset:

Temp O/I:

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NO SHS £

Telescope: 61"

IMAGES

Frame prefix #: FR92A

Day of Week: Fri/Sat.

RA offset:

Focus:
Tailpiece:

Humdty:

Sheet #: 28

Observers: Fink et al vs. Date MST/UT: 31/1

Temp O/I:

377

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.)
377	FK4 *		sed	spectroscopic		guide	point	(377, 405)	
378	20n Brew	30	B/DI	PK = Phot =	5005				20n 92A 01.6H Guide History
379	"	"							3.115
380	1992AD	30	V+R			8:04:09	20:53:19		1.37
381	"	"	B+R						
382	"	"	"						
383	1992AD	"	B/DI						
384	1992AD	30	B/DI						
385	1992AD	45	B/DI	202000	1:08	8:4:13	20:54		may be injected
386	"	45	B/DI	657	5:42	8:04	20:53	1.05	had to increase time to reliably pull out of clouds
387	comp 27	1	B/DI	2922	5:54			1.04	
388	1992AD	45	B/DI					1.03	accidentally over wrote
389	comp 26	75	B/DI	2300	6:43			1.02	
390	comp 26	75	B/DI						FAST 10"/sec

STATION
E → W

18

Frame prefix #: FR92A

Day of Week: **FRI/SAT** RA offset:

FR1/SAT

Focus:
Tailpiece:
Balance:

Humdty:

Sheet #:

29

Observers:

Date MST/UT: 21 / Dec offset:

Temp 0/I:

[illegible]