

Telescope: 61"

Iris: 304

Frame prefix #: SP95A Day of Week: MONDAY

Focus: 3750 Humdty: 55 Sheet #: 1

Observers: HICKS,
GRUNDY Date MST/UT: FEB 21Tailpiece:
Balance: 240 Temp O/I: 47/43

Guidepoint: (399.3, 413)

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	hour-angle exp-start	SecZ	Comments: VME crashes, seeing, Moon, clouds, etc.
001	1995 CR	300	0.5	100c	5:45				1.00	weird read out noise
002	"	"	"	160c	5:52	8:22:26	+37:05:20	+0:10	1.00	Times in header are ~56 seconds off
003	"	"	"		5:54	8:22:04	+37:06:47	+0:17	1.01	noise 26
004	"	600	"		6:04	8:21:45	+37:08:07	0:22	1.01	Bad N/s guiding
005	"	"	"		6:15	8:21:11	+37:10:20	+0:33	1.01	no good ^{several} noise 24 stars to south
006	"	600	"	600	6:26	8:20:24	+37:13:02	+0:46	1.02	<u>SUCCESS</u> !
007	"	"	"	600	6:36	8:19:50	+37:15:33	0:58	1.03	<u>SUCCESS</u> !
008	"	"	"	500	6:48	8:19:21	+37:17:22	+1:08	1.03	<u>SUCCESS</u> !
009	"	"	"	400	7:01	8:18:36	+37:20:19	1:22	1.05	"
10	BS3309	1.5	1mm	18k	7:19			1:31	1.08	Guiding by eye on
11	"	"	"	19k	7:19	8:27:09	+45:41:47	1:32	"	comp stars...
12	"	"	"	20k	7:20				"	(VME to MT micro not working)
13	"	"	"	17k	7:21:03 correct				"	
14	BS3625	1.0s	"	16k	7:25	9:08:29	33:54:07	0:56	1.02	
15	"	"	"	15k						

Frame prefix: SP95A

Telescope: 61"

334,453-1

Sheet #: 3

Date: FEB 24

Focus:

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Guidepoint: 399

Observers: FINK HICKS, GRUNDY

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
018	MARS	0.5	2.0	28K	4:25				HAZY BUT OUR
019	"	"	"	35K	4:33	9:28:46	19:30:59	1.16	ONLY CHANCE
020	"	0.4	"	28K	4:36			1.16	REASONABLY CLEAR
021	BS 3626	30	2.0	7K	4:47	9:08:33	26:37:38	1.07	
022	"	30	2.0	7.6 1.1	5:16	9:08:33	26:38:57	1.04	WE FILL DEWAR
023	"	30	2.0	8.0 1.1	5:13			1.04	
024	"	60	"	15K 1.3	5:14	9:08:33	26:36:56	1.03	
025	MARS	0.2	2.0	28K	5:29			1.06	
X	DR FINK REMOVES MASK					0.02 SEC = 40K			Used for 40 reducing mask!
X	WE PAUSE TO LOOK AT AVAILABLE COMETS AND GO BACK TO MARS (MASK IN)								
026	MARS	0.05	2.0	34K	8:38	9:28:23	+19:32:01	1.15	seeing deteriorated
027	"	"	"	34K	8:34			1.16	
028	"	"	"	34K				1.16	[UNABLE TO OPEN VME]
COMP 029	BS 3626	20	2.0	25K	8:44	9:08:27	+26:39:05	1.18	Solar lamp.
030, 31, 32, 33,		30	"	35K				1.19,	1.19, 1.20, 1.20
STD 034	BS 3314	2.5	"	12K	8:54	8:25:23	-03:53:28	1.98	Std #1
035, 36, 37		5.0	"	18K, 23, 21K				1.99	2.00, 2.01
STD 038	BS 4534	1.0	2.0	26K	9:01	11:48:47	14:35:53	1.05	NAME WRONG IN HEADER STD #2

039, 40

30K, 30K

1.05, 1.05

Frame prefix: SP95A

Telescope: 61"

Sheet #: 6

Date: FRIDAY

Focus: 3510

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: FINK, HICKS, GRUNDY 02/25/95

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
071	3626	20	2.0	38K	5:23	9:09:30	+26:29:05	1.02	LHA = -0:50
072	73, 74, 75	20	2.0	40K	5:24			1.02	1.02, 1.02, 1.07
076	BS 4534	0.5	2.0	20K	5:32	11:48:48	+14:35:47	1.52	
077	"	0.8	2.0	32K	5:33			1.51	
078	"	0.8	2.0	30K	5:34			1.51	
079	BS 3314	4.0	2.0	26K	5:38	8:25:29	-03:53:38	1.24	
080	"	"	"		5:39			1.24	
081	"	"	"		5:41			1.24	
082	MARS	0.05	2.0	39K	6:19			1.03	LHA = -0:12
083	"	"	"	38K	6:20			1.03	
084	"	"	"		6:20			1.03	
085	MARS	0.1	0.25	16K	6:22			1.03	CENTRAL MERIDIAN
086	"	0.2	0.25		6:23			1.03	
087	"	"	"	31K	6:23			1.03	
088	3626	20	2.0	36K	6:28			1.01	
089	090, 091, 092							1.01	1.01, 1.01, 1.01
093	3314	4.0	2.0	31K	6:36	08:25:26	-03:53:35	1.30	
094	"	"	"		6:37			1.30	
095	"	"	"		6:38			1.30	

95A

Telescope: 61"

Iris:

Frame prefix #: SP95A Day of Week: FRI

Focus: 3510

Humdty:

Sheet #: 7

Observers: FINK
GRUNDY, HICKS

Date MST/UT: FEB 25

Tailpiece:

Balance:

Temp O/I:

Guidepoint:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	hour-angle exp-start	SecZ	Comments: VME crashes, seeing, Moon, clouds, etc.
096	4534	0.8	2.0	37K	6:42	11:48:49	14:35:47	-2:12	1.22	
097	"	"	"		6:43				1.21	
098	"	"	"	35K	6:44				1.21	
099	MARS	0.05	2.0	37	6:46	9:27:06	14:36:42	0:15	1.03	
100	"	"	"		6:47				1.03	
101	"	"	"		6:48				1.03	
102	"	0.2	0.25		6:50				1.03	CENTRAL MERIDIAN
103	"	0.2	0.25	31					1.03	
104	"	0.2	0.25	20					1.03	
X	WE DO	FF'S	REMOVE	MASKS	AND DO A FEW EXPOSURES					
105	3626	1.0	2.0	17K	8:16				1.13	WILL SAYS
106	(SAME	AS 105?)								NOT PHOTOMETRIC
107	"	1.0	2.0						1.13	
108	"	1.0	"						1.13	
109	"	"	"	35K	8:19				1.13	

Telescope: 61"

Iris:

015A

Frame prefix #: SD 95A

Day of Week: FRI

Focus:

Humdty:

Sheet #: 8

Observers: GRUNDY
HICK

Date MST/UT: FEB 25

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.)
110	BS 4277	1.0	2mm	34k	9:05	10:59:07	40:78:51	-1:02	
111	"	"	"	384	9:06			1:03	1.04
112	"	"	"	427	9:07				1.04
113	5183	2.0	2mm	24k	9:13	13:46:48	+6:22:48	-1:37	1.21
114	"	2.5	"	33k	9:14				1.21
115	"	"	"	28k	9:15				1.21
116	^{STP} 4662	0.15	2mm	42k	9:23	12:15:33	-17:31:22	00:03	1.54
117	"	0.10	2mm	30k	9:24				1.55
118	"	0.10	2mm		9:25				1.55
119	4534	0.075	2mm	40k	9:33	11:48:42	14:35:41	0:40	1.06
120	"	"	"	40k	9:34			0:41	1.06
121	"	"	"	37k	9:35				1.06
122	^{SAD} 520312	30	2mm	26k	9:43	14:09:04	4:40:21	-1:29	1.22
123	"	"	"	26k	9:44				1.21
124	"	"	"						1.21

Frame prefix: SP95A

Telescope: 61"

Sheet #: 10

Observers: GRUNDY
HICKS

Date: SAT
FEB 26

Focus: 3562
Iris:
Tailpiece:
Balance:

Humidity: 90%

Temp: 31/36

Guidepoint: 399.3 413

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
131	SAO 96173	40	2.0	22K	4:05	6:49:55	+15:33:38	1.05	WEATHER
132	"	40	2.0	22K	4:07			1.05	SEEMS GOOD
133	"	40	2.0	20K	4:09			1.05	
134	BS 1855	1.0	2.0	25K	4:17	5:31:41	-07:18:18	1:46	
135	"	"	"		4:18			1:46	
136	"	"	"		4:19			1:47	
137	BS 1262	2.0	2.0	32K	4:26	4:04:59	+21:39:15	1:42	
138	"	"	"	31K	4:27			1:43	
139	"	"	"	30K	4:29			1:44	
140	BS 1662	2.0	2.0	27K		5:07:21	+9:27:32	1:32	
141	"	"	"	23K	4:37			1:33	
142	"	"	"					1:34	
143	BS 2067	2.0	2.0	34	4:45	5:48:20	-4:05:43	1:43	
144	"	"	"					1:44	
145	"	"	"		4:47			1:44	
146	BS 3311	0.5	2.0	26K	4:52	8:25:25	-3:55:16	1:25	
147	BS 3314	"	"					1:25	
148	"				4:54			1:25	

Frame prefix: FR9SA

Telescope: 61"

Sheet #: 2

Date: MST Weds / UT Thurs

Focus:
Iris:
Tailpiece:
Balance:

Humidity: 99%

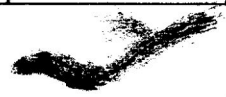
Observers: Hicks Grundy

UT: 02/23/1995

Temp:

Guidepoint: 399, 413

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME craters, clouds, etc.
/	Mars	.01	.53 μ m	51k peak	7:50	9:29:50	19:26:16	107	Too bright, haze everywhere lousy seeing
/									
/									



Frame prefix: FR95A

Telescope: 61"

Sheet #: 3

Date: Thurs/Fri Feb. 23/24

Focus:

Iris:

Tailpiece:

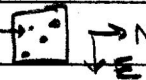
Balance:

Humidity: ~85% → 100% → 90%

Temp:

Guidepoint: ~399,413

Observers: GRUNDY, HICKS, FINK UT 2/24/1995

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.	
1	Mars	4 sec	.55	20k peak 1.5m phot	5:48	9:28:57	19:31:27	1.04	Mask, silver mirror	
1	Mars	.1	.55	24k peak 1.5m phot	6:23	9:28:33.7	19:31:16	1.03	Mask, Ag mirror	
/	Langmore	60	open	550 peak 19k phot	7:00	10:49:06	36:39:26	1.02	found it. (no mask)	
/	Macholz 2	60	"	/	7:20	10:20:10	-13:41:46	1.44	not found	
2	Hartley 3	60	"	600 peak 15k phot	7:30	11:14:00	-11:18:28	1.43	found it — 	
/	Spitaler	60	"	/	7:45	11:43:12	+5:39:43	1.17	not found	
/	Kohoutek	60	"	/	8:00	12:08:33	-10:35:56	1.46	not found	
			↑							
			"OPEN" FILTER ACTUALLY V							(wrong in FITS header)

(Jump East)

Frame prefix: FR95A

Telescope: 61"

Sheet #: 4

Date: UT AM 2/25/1995

Focus: 3510

Iris: MASK on Mars

Humidity: 80%

Tailpiece:

Balance:

Temp:

Guidepoint: (399.3, 413)

Observers: Grundy, Hicks, Fink Fri/Sat

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
3	MACCHOLZ 1994 R	60s	✓	3k peak 90k phot	2:54	3:03:55	-7:45:43	1.79	LHA=2:45 sky=3k
✓	Harrington	60s	✓	Not found	3:00	3:34:12	13:24:33	1.25	LHA= sky= ~2k
✓	Brooks 2	100s	✓	Not found	3:13	4:01:27	14:39:34	1.19	LHA= +2 hours sky ~2.5 k
4	Mars	0.1	5500	Phot = Peak = 24k	4:16	9:27:24	19:36:14	1.19	
5	"	"	"	Peak = 24k Phot = 1.5 m	4:17			1.19	LHA = -2:15 (east)
6	"	0.05	6500	Peak = 27 k Phot =	4:25			1.17	
7	"	"	"	Peak = 27 k Phot =	4:26			1.16	
8	"	0.08	7500	Peak = 29 k	4:29				
9	"	"	"	Phot = 1.8 m Peak = 30k	4:31	9:27:23	19:36:20	1.15	LHA = -2:00
10	"	0.15	8500	Peak = 27 k	4:36			1.14	
11	"	"	"	Peak = 26 k Phot = 1.5 m	4:37			1.14	LHA = -1:55
12	"	0.9	9500	Peak = 30 k Phot 1.7 m	4:42			1.13	
13	"	"	"	Peak = Phot =					
14	⁸⁵ 3626	60s	"	pk = 34k Phot = 141k	4:49	9:08:34	26:39:07	1.06	
15	"	"	"						
16	"	"	8500	pk = 24 k Phot = 820k	4:53			1.05	
17	"	"	"	26 k 890k	4:55			1.05	LHA = -1:17
18	"	20	7500	pk = 22 k Ph = 644k	4:58			1.05	

MASK 100%

Frame prefix: FR95A

Telescope: 61"

Sheet #: 5

Date: UT Sat. 2/25/95

Focus:
Iris: MASK
Tailpiece:
Balance:

Humidity:

Observers: GRUNDY, HICKS, FINK

(Fri/Sat)

Temp:

Guidepoint: 399, 413

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
19	3626	30	7500	Pk = 32k Ph = 947k	5:03	9:08:34	26:39:07	1.04	LHA = -1:10
20	"	20	6500	Pk = 43k Ph = 1.1m	5:06			1.04	
21	"	15	"	pk 30k	5:09			1.04	
22	"	10	5500	Pk = 34k Ph = 508k	5:13	9:08:33	26:39:06	1.03	LHA = -1:00 ← Jump in East
23	"	"	"	"	5:17			1.03	
24	3314 STD	1.0	"	22k 336k	5:43			1.24	
25	"	1.5	"	23k 479k		8:25:26	-3:53:36	1.24	LHA = 0:14
26	"	2.0	6500	22k 479k	5:47			1.24	
27	"	"	"	21k 483k				1.24	
28	"	5	7500	20k 492k	5:50			1.24	0:20 west
29	"	8	"	33k 812k	5:51			1.24	
30	"	20	8500	25k 800k	5:54			1.25	
31	"	"	"	23k 867k	5:55			1.25	0:25 west
32	"	60	9500	11k 401k	5:57			1.25	
33	"	"	"		5:59	8:25:26	-3:53:36	1.25	
34	MARS	0.9	"	34k 1.9m				1.03	
35	"	"	"	31k 1.75m	6:04	9:27:09	19:36:37	"	
36	"	0.15	8500	27k 1.61m	6:06			"	LHA = -:25

Frame prefix: FR9SA

Telescope: 61"

Sheet #: 6

Date: UT Sat 2/25/95

Focus:
Iris: MASK
Tailpiece:
Balance:

Humidity: 80%

Observers: GRUNDY, HICKS, FINK (Fri/Sat)

Temp:

Guidepoint: 400, 413

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
37	MARS	0.15	8500	27k 1.58m				1.03	
38	"	0.08	7500	30k 1.83m	6:08	9:27:10	19:36:39	1.03	
39	"	"	"	32k 1.89m	6:09			1.03	
40	"	0.05	6500	28k 1.75m	6:10			1.03	LHA = 0:21 -0:21 (East)
41	"	"	"	29k 1.82m	6:11:30			1.03	
42	"	0.1	5500	25k 1.67m	6:14			1.03	
43	"	"	"	25k 1.64m	6:15:30	9:27:10	19:36:42	1.03	LHA = -:16
44	FLAT (Dome)	20	"	22k	7:00				Humidity = 82%
45	"	"	"						Variac = 100
46	"	"	"	22k	7:03				dec = -65° from Zenith
47	"	10	6500	25k	7:10				
48	"	"	"	"					
49	"	"	"	24k	7:12:30				
50	"	"	7500	28k	7:17				
51	"	"	"	"					
52	"	"	"	28k	7:19				
53	"	15	8500	29k	7:23				
54	"	"	"	"					

MASI

Y

