

Frame prefix: FR96F

Telescope: 61"

Date: Oct. 06/07

Focus: 5724  
Iris: 3.00  
Tailpiece: -  
Balance: low

Sheet #: 1

Humidity:

Observers: Fink, Tegler, Ramonishin, Ferris, Collins

Temp:

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
001	Wirtana	3.00	V+R	25no/11no	3:02	20:57:22.7	-33:22:50	2.42	-w.02 (6w) <sup>2</sup> buffed 22w-30w
002	"	"	"		3:15			2.42	+w.02 270 <sup>2</sup>
003	"	"	"		3:24.46	21.15	22:22.8	2.43	(6w) <sup>2</sup> couldn't find Wirtana
004	"	"	"		4:03.44				(6w) <sup>2</sup> huge blink.
005	"	"	"		3:47:44				(600) <sup>2</sup>
006	"	"	"		3:58:10	21.61	22:29.6	2.51	+00:46 (600 <sup>2</sup> ) still searching with blink
007	"	"	"		4:12:52	22.64	22:29.5	2.57	(600 <sup>2</sup> ) fits header wrong
008	"	"	"		4:23:36	22.64	22:29.4	2.64	to fill (600 <sup>2</sup> )
009	Lundt 113-493	1.0	"		4:52:00	21:42:29	+0032:09.8	1.20	epoch 2000 coordinates 256x256
010	"	1.0	"		4:53:00	"	"	1.21	"
011	"	"	"		4:54:00	"	"	"	"
012	"	"	"		4:55:00	"	"	"	"
013	1994 TB	600	V+R		5:11	23:29:10.17	+05:11:00.1	1.14	(p row = 400 Ex row = 400 Cen col = 450 Ext col = 400
014	"	"	"		5:26	23:29:11.15	+05:11:00.1	1.13	~15E
015	"	"	"		5:39	23:29:12.25	+05:11:00.2	1.12	~15E
016	"	"	"		5:51	23:29:13.33	+05:11:00.2	1.12	~15E
017	"	"	"		6:04	23:29:13.31	+05:11:16.6	1.13	~15N
018	"	"	"		6:19	23:29:12.00	+05:11:14.6	1.13	~20W

Frame prefix: *FR96F*

Telescope: *61-11*

Sheet #: *2*

Date: *Oct 06/07*

Focus: *3720*

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Observers: *Romanishin & Taylor*

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
019	<i>1994TB</i>	<i>600</i>	<i>VIR</i>		<i>6:31</i>	<i>23:29:11.99</i>	<i>+05:11:32.4</i>	<i>1.14</i>	<i>~15N</i>
020	"	"	"		<i>6:43</i>	<i>23:29:11.97</i>	<i>+05:11:00.9</i>	<i>1.16</i>	<i>~30AS</i>
021	"	"	"		<i>6:56</i>	<i>23:29:11.96</i>	<i>+05:10:44.</i>	<i>1.18</i>	<i>~15S</i>
022	"	"	"		<i>7:06</i>	<i>23:29:11.95</i>	<i>+05:10:30.0</i>	<i>1.19</i>	<i>~15S</i>
<del>023</del> <del>024</del>	"	"	"		<i>7:17</i>	<i>23:29:12.37</i>	<i>+05:10:30.0</i>	<i>1.22</i>	<i>~20E</i>
24	"	"	"		<i>7:34</i>	<i>23:29:12.35</i>	<i>+05 10 30</i>	<i>1.25</i> <i>1.28</i>	<i>~15W</i>
25	"	"	"		<i>7:46</i>	<i>23:29:13.55</i>	<i>+05 10 30</i>	<i>1.28</i>	
26	"	"	"		<i>8:01</i>	<i>23:29:13.55</i>	<i>+05 10 50</i>	<i>1.34</i> <i>1.37</i>	
27	"	"	"		<i>8:12</i>	<i>↓</i>	<i>+05 10 40</i>	<i>1.38</i> <i>1.43</i>	
28	"	"	"		<i>8:24</i>	<i>23:29:14</i>	<i>+05 10 40</i>	<i>1.43</i>	
29	"	"	"		<i>8:48</i>	<i>23:29:14.01</i>	<i>+05 10 20.8</i>	<i>1.57</i>	
30	"	"	"		<i>9:03</i>	<i>23:29:14.00</i>	<i>+05 11 00</i>	<i>1.70</i>	
31	<i>1994VK8</i>	"	"			<i>4:12:52.71</i>	<i>20:56:18</i>	<i>1.04</i>	
32	"	"	"		<i>9:45</i>	<i>4:12:52.74</i>	<i>20:56:04.3</i>	<i>1.04</i>	
33	"	"	"		<i>9:57</i>	<i>4:12:52.74</i>	<i>20:56:32.1</i>	<i>1.03</i>	
34	"	"	"		<i>10:08</i>	<i>4:12:53.78</i>	<i>+20:56:32.1</i>	<i>1.02</i>	
35	"	"	"		<i>10:08</i>	<i>4:12:53.77</i>	<i>+20:56:17.4</i>	<i>1.02</i>	
36	"	"	"		<i>10:39</i>	<i>4:12:53.75</i>	<i>+20:56:00.7</i>	<i>1.02</i>	

Frame prefix: FR 96F

Telescope: 61-15

Sheet #: 3

Date: Oct 06/07

Focus: 3700

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Observers: Taylor and Romanishin

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: # Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
37	1994VK8	600	VIR		10:57	4:12:51.79	120° 2' 14.0"	1.02	
38	"	"	"		11:08	4:12:51.80	20:56:03	1.03	
39	"	"	"		11:21	4:12:51.78	20:56:32.2	1.04	
40	"	"	"		11:41	4:12:52.74	20:55:46.7	1.06	
41	Land 111-713	0.1	VIR		2:33	19 <sup>h</sup> 37 <sup>m</sup> 15.82	00° 10' 05.1	1.20	← Start of night 2 —
42	"	0.1	VIR		2:34	"	"	"	2000 Epoch
43	Wirtene7	300	"	1	2:41	20:54:14.13	-33:18:46.8	2.44	
44	"	"	"	2	2:48	"	" 31.7	2.43	N15 <sup>m</sup>
45	"	"	"	3	2:55	"	-33:19:02	2.42	S30 <sup>m</sup>
46	"	"	"	4	3:01	" " 16.05	"	2.42	E 2 <sup>s</sup> <small>move more than 15" E coma</small>
47	"	"	"	5	3:07	"	-33:18:40	2.42	N20 <sup>m</sup> (transit)
48	"	"	"	6	3:13	"	-33:18:20	2.42	N20 <sup>m</sup>
49	"	"	"	7	3:19	20:54:12.7	"	2.42	W 3.5 <sup>s</sup>
50	"	"	"	8	3:26	"	-33:18:40.5	2.43	S20
51	"	"	"	9	3:32	"	-33:19:00	2.44	S20
52	"	"	"	10	3:38	"	-33:19:15	2.45	S15 <sup>m</sup>
53	"	"	"	11	3:44	20:54:15.0	"	2.47	E 2.3 <sup>s</sup>
54	"	"	"	12	3:50	"	-33:18:57		N20

Frame prefix:

Telescope: 61 inch

Focus: 3724

Sheet #: 4

Date: UT 8 OCT 96

Iris:

Humidity:

Observers: Teyler, Romanishin

(note 2)

Tailpiece:

Temp:

Balance:

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: # Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
55	"	"	"	13	3:56	"	-33:10:36	2.51	N20
56	1993 SC	600	"	1	4:10	00:14:14.9	02:32:42	1.39- 1.35	- - HA~2:17
57	"	"	"	2	4:21	" " "	" " :27	1.35 $\rightarrow$ 1.31	- 15 <sup>T</sup> S $\checkmark$
58	"	"	"	3	4:32	" " "	" " :57	1.31 $\rightarrow$ 1.28	- 30 <sup>T</sup> NV $\checkmark$
59	"	"	"	4	4:43	" " "	02:33:12	1.28 $\rightarrow$ 1.25	- 15 <sup>T</sup> NV $\checkmark$
60	"	"	"	5	4:55	00:14:13.9	" "	1.25 $\rightarrow$ 1.23	15 <sup>W</sup> - $\checkmark$
61	"	"	"	6	5:06	" " "	02:32:57	1.23 $\rightarrow$ 1.21	- -15 $\checkmark$
62	"	"	"	7	5:17	" " "	02:32:42	1.20 1.19	- -15 $\checkmark$
63	"	"	"	8	5:28	" " "	02:32:27	1.19 $\rightarrow$ 1.18	- -15 $\checkmark$
64	"	"	"	9	5:39	" " 15.9	" " "	1.18 $\rightarrow$ 1.17	2 <sup>SE</sup> - $\checkmark$
65	"	"	"	10	5:51	" " "	" " :42	1.17	- +15 $\checkmark$
66	"	"	"	11	6:02	" " "	" " 57	1.15	- +15 $\checkmark$
67	"	"	"	12	6:13	" " "	02:33:12	1.15	- +15 $\checkmark$
68	"	"	"	13	6:24	00:14:16.9	" " "	1.15	1E - $\checkmark$
69	"	"	"	14	6:35	" " "	02:32:57	1.15	- -15 $\checkmark$
70	"	"	"	15	6:46	" " "	02:32:42	1.15	- -15 $\checkmark$
71	"	"	"	16	6:58	" " "	02:32:27	1.16	- -15 $\checkmark$
72	"	"	"	17	7:09	00:14:14.9	02:32:42	1.17	- - back to begin.

Frame prefix: FR96F

Telescope: 61-m

Sheet #: 5

Date: Oct 07/02

Focus: 3720

Iris:

Humidity: 60%

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Romanishin & Taylor

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
73	"	"	"	18 <sup>2</sup>	7:20	00:14:14.9	02:32:27		- -15 <sup>✓</sup>
74	"	"	"	19 <sup>3</sup>	7:31	" " "	57	1.20	- +30 <sup>✓</sup>
75	"	"	"	20 <sup>4</sup>	7:42	" " "	02:33:12	1.21	- +15 <sup>✓</sup>
76	"	"	"	21 <sup>(5)</sup>	7:53	00:14:13.9	" " "	1.23	-1 <sup>2</sup> - <sup>✓</sup>
77	"	"	"	22 <sup>(6)</sup>	8:04	" " "	02:33:57	1.26	- -15 <sup>✓</sup>
78	"	"	"	23 <sup>(7)</sup>	8:15	" " "	02:33:42	1.29	- -15 <sup>✓</sup>
79	"	"	"	24 <sup>(8)</sup>	8:26	" " "	02:33:27	1.32	- -15 <sup>✓</sup>
80	"	"	"	25 <sup>(9)</sup>	8:37	00:14:15.9	" " "	1.36	+2 <sup>5</sup> - <sup>✓</sup>
81	"	"	"	26 <sup>(10)</sup>	8:48	" " "	02:33:42	1.40	- +15 <sup>✓</sup>
82	"	"	"	27	8:59	" " "	02:33:57	1.45	- +15 <sup>✓</sup>
83	1994VK0	600	VNR	1	9:33	04:12:49.77	+20:56:12.2	1.04	
84	"	"	"	2	9:46	04:12:49.78	+20:55:57.7	1.03	-15
85	"	"	"	3	9:59	04:12:49.76	+20:56:26.8	1.03	+15
86	"	"	"	4	10:11	04:12:49.75	+20:56:42.1	1.02	+30
87	"	"	"	5	10:23	04:12:50.71	+20:56:11.9	1.02	+1 <sup>3</sup>
88	"	"	"	6	10:35	" " "	+20:55:56	1.02	-15
89	"	"	"	7	10:47	04:12:50.69	+20:56:27.3	1.02	+15
90	"	"	"	8	10:59	04:12:50.68	+20:56:42.3	1.03	+30

Frame prefix: FR96F

Telescope: 61-10

Sheet #: 6

Date: Oct 07/08

Focus: 3719

Iris:

Humidity: 60%

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Romanishman & Taylor

DRA DDEC

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
91	1994 VK8	600	V+R	9	11:11	04:12:51.79	+20:56:42.3	1.04	
92	"	"	"	10	11:23	04:12:51.76	+20:56:22.1	1.05	
93	"	"	"	11	11:34	04:12:51.77	+20:56:12.2	1.06	
94				12	11:46	04:12:51.75	+20:55:56.2	1.07	
95	0.055 dark	0.05	"		12:22				may have residual streak from star
96	Wirtanen	300	V+R	1	2:12	20:54:08.53	-33:14:43.5	2.51	← Night 3 — Epoch 2000
<del>97</del>				<del>1</del>	2:21	" "	-33:14:58	2.49	- <del>15</del> VME crash lost pic
<del>97</del>	"			2	2:32	" "	-33:14:58	2.45	- <del>15</del> 15 <sup>n</sup>
98	"			3	2:39	" "	-33:14:28	2.43	- +30 <sup>n</sup>
99				4	2:45	" "	-33:14:08	2.42	- <del>15</del> +20 <sup>n</sup> LHA = -0:19
100				5	2:51	20:54:09.1	" "	2.41	-1.4 -
101				6	2:57	" " "	-33:14:28	2.41	- -20 <sup>n</sup>
102				7	3:03	" " "	-33:14:48	2.41	-20 <sup>n</sup>
103				8	3:09	" " "	-33:15:08	2.41	-20
104				9	3:15	20:54:09.9	" " "		+2.8 -
105				10	3:22	" "	-33:14:48	2.42	+20
106				11	3:28	" "	-33:14:28	2.43	+20
<del>107</del>	<del>1995 QY9</del>	<del>600</del>	<del>V+R</del>	<del>12</del>	<del>3:34</del>	<del>" "</del>	<del>-33:14:08</del>	<del>2.44</del>	<del>+20</del> Crashed on Wirtanen

Dome Encoder Down ↓

crash

Frame prefix: FR96F

Telescope: 61-17

Date: Oct 08/09 (night 3)

Focus: 3725

Iris:

Tailpiece:

Balance:

Humidity: 55%

Temp: 50°

Sheet #: 7

Observers: Taylor & Romanishin

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
<del>108</del>						<del>22:54:48.3</del>			<del>1.33</del>
107	1995449	600	UHC	1	3:57	22:52:33.56	-07:05:41.8	1.35	
108	"	"	"	2	4:10	22:52:33.56	-07:05:57.2	1.33	-15" south
109	"	"	"	3	4:21	" " "	-07:05:27	1.32	30" N
110	"	"	"	4	4:34	22:52:33.51	-07:05:10.9	1.30	
111	"	"	"	5	4:46	22:52:32.49	-07:05:10.9	1.30	1" W
112	"	"	"	6	4:57	22:52:32.48	-07:05:27.3	1.29	
113	"	"	"	7	5:09	22:52:32.47	-07:05:41.3	1.30	
114	"	"	"	D	5:24	22:52:32.47	-07:05:57.3	1.30	Dome check
115	"	"	"	9	5:39	22:52:34.57 <sup>55</sup>	-07:05:57.3	1.31	
116	"	"	"	10	5:54	22:52:34.52	-07:05:41.3	1.33	
117	"	"	"	11	6:08	22:52:34.52	-07:05:27.3	1.35	
118	"	"	"	12	6:23	22:52:34.52	-07:05:10.7	1.38	
119	"	"	"	13	6:38	22:52:35.55	-07:05:10.7	1.47	
120	"	"	"	14	6:54	22:52:35.54	-07:05:27.4	1.48	
121	199476	"	"	1	7:19	23:28:59.35	+05:09:48.1	1.23	
122	"	"	"	2	7:34	23:28:59.35	+05:09:33.1	1.29	
123	"	"	"	3	7:47	23:28:59.34	+05:10:01.7	1.32	





Frame prefix: FR96F

Telescope: 61-1A

Sheet #: 9

Date: Oct 09/10 (night)

Focus: 3801

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Tegler and Romanshyn

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
132	Lendell 113-773	1	VHR			19:37:15.79	00:10:59.1	1.02	Large focus change from last night - much warmer tonight
133	Virtanen	300	"	1	2:58	20:54:05.23	-33:10:17.9	2.40	T
134	"	"	"	2	3:05	"	-33:10:02.9	2.40	Epoch 2000 Coordinates
135	"	"	"	3	3:11	"	-33:09:45	2.41	↓
136	"	"	"	4	3:18	20:54:04.23	"	2.41	
137	"	"	"	5	3:25	<del>20:54:04.23</del>	-33:10:02.9	2.43	
138	"	"	"	6	3:32	"	-33:10:17.9	2.44	
139	"	"	"	7	3:37	"	-33:10:33.6	2.46	
140	"	"	"	8	3:44	20:54:05.3	"	2.48	
141	"	"	"	9	3:49	20:54:06.3	"	2.50	
142	"	"	"	10		"	-33:10:17.9		
143	1995Q49	600	"	1	4:33	22:52:28.8	-07:06:05.9	1.30	
<del>144</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>"</del>		<del>22:52:28.8</del>	<del>-07:05:50</del>		???
144	1993SC	660	VHR	1	5:08	00:14:04.13	+02:31:36.1	1.21	
145	"	"	"	2	5:22	00:14:04.13	+02:31:51	1.19	
146	"	"	"	3	5:35	00:14:04.09	+02:32:06	1.17	
147	"	"	"	4	5:49	00:14:03.09	"	1.16	
148	"	"	"	5	6:01	" " "	02:31:51		-15"



Frame prefix: FR96F

Telescope: 61-17

Focus: 3737

Sheet #: 11

Date: Oct 10/11 (Mjhts)

Iris:

Humidity:

Observers: Romanishin & Taylor

Tailpiece:

Balance:

Temp:

Guidepoint:

Grid No.

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
158	Wirtanen	300	VHR	1	2:16	20:54:04.81	-33:06:02.4	2.46	
159	"	"	"	2	2:23	20:54:04.8	-33:05:45.2	2.44	Filter Confusion! Changed to B during exposure
160	"	"	B	2	2:30	20:54:04.78	-33:05:45.0	2.42	
161	"	"	B	3	2:35	"	-33:05:30.0	2.41	
162	"	"	V	4	2:42	20:54:03.78	"	2.40	
163	"	"	V	5	2:48	<del>20:54:03.78</del>	-33:05:45.0	2.40	
164	"	"	R	6	2:55	"	-33:06:02.2	2.41	
165	"	"	R	7	3:01	"	-33:06:17.2	2.40	
166	"	"	B	8	3:08	20:54:04.78	"	2.40	
167	"	"	B	9	3:14	20:54:05.78	"	2.41	
168	"	"	B	10	3:21	"	-33:06:02.2	2.42	
169	"	"	V	11	3:27	"	-33:05:45	2.43	
170	"	"	V	12	3:33	"	-33:05:30	2.45	
171	"	"	V	13	3:39	20:54:06.78	"	2.47	
172	"	"	R	14	3:46	"	-33:05:45	2.49	
173	"	"	R	15	3:52	"	-33:06:02	2.52	
174	"	"	R	16	3:58	"	-33:06:17	2.55	
175	"	"	V+R	17	4:05	"	"	2.60	

Frame prefix: PR90F

Telescope: 61-14

Sheet #: 12

Date: Oct 10/11 (Nights)

Focus: 3735

Iris:  
Tailpiece:  
Balance:

Humidity:

Temp:

Guidepoint:

Observers: Taylor and Romanishin

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
176	Urtanen	300	V+R		4:10	20:25:06.74 <sup>54</sup>	-33:06:01.9	2.64	
177	1996RQ20	600	V+R		4:36	00:41:04.68	+04:14:42.2	1.32	
178	"	"	"		4:50	00:41:04.67	+04:14:57.2	1.28	
179	1993SC	"	"	1	5:13	00:13:59.39	+02:31:06.0	1.19	← Great Focus — At this position
180	"	"	"	2	5:25	00:13:58.39	+02:31:21	1.18	
181	"	"	"	3	5:36	"	+02:31:36	1.17	
182	"	"	"	4	5:48	00:13:58.39 <del>00:14:00</del>	"	1.16	
183	"	"	"	5	6:00	"	+02:31:21	1.15	
184	"	"	"	6	6:12	"	+02:31:06	1.15	
185	"	"	"	7	6:37 <del>6:26</del>	"	+02:30:50	1.16 <del>1.15</del>	← Focus check — Computer Still Great — Crash!
186	"	"	"	8	6:49	00:13:59.39	"	1.16	
187	"	"	"	9	7:00	0:14:00.39	"	1.17	
188	"	"	"	10	7:13	"	+02:31:06	1.19	
189	"	"	"	11	7:24	"	+02:31:21	1.20	
190	"	"	"	12	7:40	"	+02:31: <del>15</del> <sup>36</sup>	1.23	
191	1996RQ20	600	V+R	1	7:58	00:41:04.76	+04:14:42.0	1.20	
192	"	"	"	2	8:10	"	+04:14:57.8	1.22	
193	1993SC	600	V+R	1	8:26	00:13:59.35	+02:31:06.0	1.36	

D. de Vries

Telescope: 61-11

Sheet #: 13

Frame prefix:

Date:

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Tegler and Romanishin

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
194	19935C	600	DR	13	8:37	00:14:01.35	+02:31:36	1.41	
195	"	"	"	14	8:49	"	+02:31:21	1.46	
196	"	"	"	15	9:03	"	02:31:06	1.54 - 1.60	check focus
197	<del>19935C</del> # 5C	"	"	16	9:14		02:30:50		⇒ check focus
198	1998 RQ20	"	"	2	9:47	00:41:04.8	04:14:42	1.61 - 1.68	
199	"	"	"	2	9:58	"	04:14:27	1.697 - 1.78	-15"
200	M67	1	VHR		10:24	08:51:17.85	+11:46:45.7	2.30	Good air mass match to Wirtanen
201	"	1	V		10:27	"	"	2.26	
202	"	1	R		10:29	"	"	2.24	
203	"	1	B		10:31	V	"	2.19	
204	1994VKB	600	VHR	1	10:45	04:12:40.84	+20:55:48.0	1.03	
205	"	"	"	2	10:56	04:12:40.83	+20:56:03.8	1.03	
206	"	"	"	3	11:07	"	+20:56:18	1.04	
207	"	"	"	4	11:19	04:12:39.83	"	1.05	
208	"	"	"	5	11:30	"	+20:56:04	1.07	
209	"	"	"	6	11:44	"	"	1.09	forgot to move
210	M67	1	VHR		12:00			1.40	close to saturation
211	"	0.5	R		12:04			1.38	

212

213

214

"

"

"

VHR

V

R

1.37

1.36

1.35

#215 B 1:35

#216 Park

Frame prefix: FR96F

Telescope: 61-19

Sheet #: 14

Date:

Focus:

Humidity:

Observers: Taylor & Romushkin

Iris:

Tailpiece:

Temp:

Balance:

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
212	M67		V+R					1.37	
213	M67		V					1.30	
214	M67		R					1.35	
215	M67		B					1.35	
216	Dark								
nite 6 217	Wirtanen		U+R		2:39	20:54:06.6	-33:01:25.6	2.40	3770
218	"		U+R		2:44	"	-33:01:40	2.39	-15
219	"		R		2:53	"	"	2.39	↑ seeing poor - not too far
220	"		R		2:58	20:54:08.1	"	2.39	<del>1.5</del> 1.5 E
221	"		V		3:06	"	"	2.40	<del>1.5</del>
222	"		V		3:12	20:54:06.6	"		1.5 W
223	"		B		3:19	"	"		
224	"		B		3:25	20:54:06.6 <del>20:54:06.6</del>	-33:01:10	2.47	<del>30" N</del> 30" N
225	"		<del>V</del> R		3:33	"	"	2.45	(forgot to sleep)
226	"		R		3:39	20:54:08.5	-33:01:41	2.48	30 <sup>s</sup> , <del>1.5</del> 2 <sup>E</sup>
227			V		3:46	20:54:06.6	-33:01:11	2.51	2 W, 30 <sup>N</sup> really V -
228			B		3:53	"	"	2.54	really B <del>1.5</del>
229			B		3:59	20:54:08.6	"	2.57	2 E

for to do 2nd

Frame prefix: FR96F

Telescope: 61-in

Sheet #: 15

Date: Oct 11/12

Focus:

Iris:

Tailpiece:

Balance:

Humidity:

Temp:

Guidepoint:

Observers: Romanskina & Teyler

Grid #

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA $\alpha$	Dec $\delta$	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
230	Wirtanen	300	V4R			20:54:08.6	-37:01:11	2.62	
231	1993 SC	600	V4R	①	4:30	00:13:53.94	+02:30:36.2	1.27	
232	"	"	"	②	4:43	00:13:53.94	+02:30:51	1.24	
233	"	"	"	③	4:54	00:13:53.94	+02:31:05	1.22	
234	"	"	"	④	5:09	00:13:52.94	"	1.20	
235	"	"	"	⑤	5:20	00:13:52.89	+02:30:51	1.18	
236	"	"	"	⑥	5:34	00:13:52.89	+02:30:36	1.17	
237	"	"	"	⑦	5:50	"	+02:30:21	1.16	30391 @ 3789 Focus Check 60-sec exposure
238	"	"	"	⑧	6:15	00:13:52.89	"	1.15	OK
239	"	"	"	⑨	6:28	00:13:54.94	"	1.15	Focus looks ok
240	"	"	"	⑩	6:40	"	02:30:36	1.16	Focus 2.18, 2.18 focusing
241	"	"	"	⑪	6:52	"	02:30:51	1.17	
242	1996 RK20	"	"	⑫	7:04	?	02:31:06 ?	1.17	Deleted Files, Rebooted S, & Jov File 242 lost
243	1996 RK20	"	"	⑬	7:49	00:40:59.36	+04:14:33.7	1.19	
244	1996 RK20	"	"	⑭	8:02	00:40:59.35	+04:14:44.5	1.21	
245	1993 SC	"	"	⑮	8:27	00:13:53.93	+02:30:35.9	1.38	Filled Dewcap
246	"	300	"	1		00:13:59.36	+02:31:06.0	1.47	Geometric Distortion Test
247		300		2	9:55	00:14:06.1	+02:31:06	1.51	" move 1/3 field E

