

Frame prefix: SP96C

Telescope: 61"

Sheet #: 1

Date: 96 April 10/11
Wed 17th

Focus:
Iris: 3.0
Tailpiece:
Balance: 350

Humidity: 49%

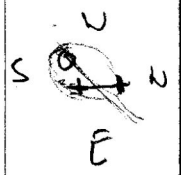
3923, 395

Observers: Fink, Hicks, Collins

Temp: 58/42

Guidepoint:

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.
001	BS 1262	1.0	1.0	12 000	2:55	04:05:07	+21 49 53	2.19	+41:43"
002	"	2.0	"	19 000	2:55				
003	"	"	"	"	2:56			2:25	
004	"	"	"	21 000	2:57:30				VME 6/20 57:42
005	"	"	"	22 000	58:27				
007	"	"	"	20 620				2:31	+41:50
008	Hyakutake	30	0.50	56 500	2:58	05:01:09	39 28:29	3.01	+06:03
009	"	1.0	1.0	38 000	5:10			3.07	
010	"	"	"	39 000	5:12			3.12	- 6:17
011	"	60	0.25	45 000	3:12:2			3.25	+0:11
012	"	40	"	24 500	3:12:20	2:01:09	39 38 12.4	3.32	0:13
013	"	"	"	25 800	3:11:4			3.38	6:15
014	"	"	"	33 000	3:12:3			3.43	6:17
015	"	120	"	37 000	5:25	2 01 13.1	39 39 13.1	3.50	6:19 off hat +4.0 +70N
016	"	300	"		5:35	01 15.1	39 38 41.5	3.07	6:24 off hat +2.0 -20" in FRONT
017	BS 1262	2.0	1.0	16 000	3:42	4:05:07	22:00 10	3.41	5:32
018	"	40	"	25 000	5:43	"	"	3.46	
019	"	"	"	39 000	5:44	"	"	3.50	
020	"	"	"	35 000	2:41	"	"	3.54	
021	"	"	"	40 600	5:42	"	"	3.58	



Frame prefix: SP96C

Telescope: 61"
 Date: APRIL 10/11
 WED

Focus:
 Iris:
 Tailpiece:
 Balance:

Humidity:
 Temp:

Sheet #: 2

Observers: Hicks, Fink

Guidepoint: 392.3 395

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.
022 023	RS 1262	4w	1w	37mw 39mw	5:47 5:48			5.64 5.69	
024 025	"	"	"	37mw 29mw	5:50 5:51			5.74 5.74	
026	RSC 3314 HD	0.40	1w	21700	3:28	08:25 28	-03:53 43	1.34	+01:28
027 028	"	"	"	27mw ?	4:00			1.35 1.35	+01:31
029	"	"	"	229w	4:01			1.35	01:32
030	SECRET Pamihi	6w	0.50	2w cut w/ut	4:15	09:21:44	-10:17 45	1.39	01:50
031	"	12w	"	4w cut w/ut	4:28			1.42	01:02
032	"	12w	"	~ 500 net 250/170	4:49			1.47	01:25
033	"	12w	"	~ 4w net 22w/18w	5:10			1.53	01:44
034	2065 Bicus	6w	0.50	115w	5:46	12:49:09	22 11 16	1.55	-01:06
035	"	12w	"	227w	5:57	07	22 10 06	1.04	-01:15
036	"	"	"	23577	6:18			1.02	-01:34
037	"	"	"	23266	6:40			1.02	-00:12
038	"	"	"	23177	7:01			1.02	+00:00
039	"	"	"	21439	7:25			1.02	00:32
040	"	"	"	22700	7:46	12:48:40	21:58:42	1.04	
041	COMP BS 5534	2.0	1.0	30 K	8:16	14:50:06	23:55:37	1.02	
050	"	"	"		8:23			1.02	

Frame prefix: SP96C

Telescope: 61"

Sheet #: 3

Date: APR 10/11

Focus:

Humidity:

Iris:

392.3, 395

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: HICKS, FINX

WED

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.
051	SUPER COMP BS 5968	1.0	1.0	25K	8:36	16:00:59	+33:18:57	1.06	
052	"	1.25	"	32K				1.05	
056	"	"	"		8:42			1.05	
057	BS 6441	5.0	1.0	27K	8:55	17:20:26	-19:20:18	2.19	
058	"	"	"		8:56			2.17	
059	"	"	"					2.16	
060	"	"	"					2.15	
061	"	"	"					2.14	
062	P/Kyrt	600	0.50	~4000 out net	9:31	17:54:04	-16:44:45	2.01	-02:26 half the slit was not exposed!
063	"	300	"		9:50	no good, really weird.		1.86	-02:09 test! my slit is broken!
064	"			~600 out net. 2075/1150	9:52	leak OK but both half slit is still missing.			
065	"	1200	"	~2200 out net 4400/2100/1100	10:04	17:54:06	-16:44:45	1.78	-01:52 Move up: mag stars passing through
066	"	"	"	3900/2100/1100	10:25			1.69	-01:51 Jump in East
067	"	"		4400/2170/1120	10:46	usually slit runs again good again		1.62	-01:40 1.57 out head with star
068	Hub-Bupp	600	0.50		11:16	19:44:24	-18:52:33	2.17	-02:30 bad problem with finally break to higher sources.
069	"	600	"		11:49	19:44:28.9	-18:52:32.5	1.91	

Frame prefix: SP96C

Telescope: 61"

Sheet #: 4

Date: April 11/12
Thurs

Focus: 3490

Iris: 3.0

Tailpiece: 210

Balance: 600,600

Humidity: 68%

Temp: 52/36

292.5, 295

Guidepoint: 293.0, 295

Observers: Rick Heick

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.
070	Hyalukta	30	0.50	37800	02:45	3:00:13	+28 55 27	2.64	405.44 4P 392
071	"	"	"	40400	02:48	"	"	2.61	4P 392
072	"	"	"	47800				2.73	4P 393
073	"	40	0.25	25100	2:56			2.86	"
074	"	50	"	31700	2:58			2.92	405.57
075	"	"	"	40700	3:00:36			2.98	405.59
076	"	"	"	41317	3:02:39	3:00:12.4	38 55 01.5	3.03	00:02
077	"	300	"	5600	3:05:12	00 18.3	38 55 46.6	3.10	21460 δ + 50" offset
078	"	"	"	3800	3:12	00 24.1	38 56 :24	3.30	another offset in time
079	"	"	"	3300	3:18	23.9	56:14	3.49	00:12 same
080	"	"	"	5050	3:25	3:00 17.6	38 55 14	3.75	more bad for part # 077
081	SS	"	"	120/1000	3:39	3:08 :53	38 55 10	3.77	5.97 of end go 8" (20) East. 2l. done
082	"	"	"		3:43	5:18 :35	38 55 00	3.75	4.01 5.97-8.01 go back 8" again, tracking off
083	BS 1662	1.0	1.0	9300	3:59	05 07 26.8	09 28 37	3.01	
084	"	30	"	23000	4:01	"	"	3.05	
085	"	40	"	35400	4:02	"	"	3.09	
086	"	"	"	32600	4:05	"	"	3.12	
087	"	"	"	35800	4:02	"	"	3.15	
088	"	"	"	38000	4:05	"	"	3.18	
089	"	"	"	28800	4:06	"	"	3.22	
090	"	"	"	24300	4:07	"	"	3.24	
091	"	"	"		4:08	"	"	3.30	45:00

Frame prefix: SP16C

Telescope: 61"

Sheet #: 5

Date: April 12/12

Focus:

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: FJK, Htk

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.
092	BS 1662	4.0	L-20	28 000	4:15	"	"	3.60	
093	"	"	"	28 000	4:16	"	"	3.60	
094	"	"	"	26 900	4:17			3.70	
095	BS 453452	0.95	"	15110	4:28	11:48:53	14:55:39	1.11	-01:23
096	"	0.10	"	31380	4:29	"	"	1.11	-01:19
097	"	"	"	37600				"	
098	"	"	"	35 000	4:31	"	"	1.12	-01:18
099	BS 2067	5.0	L-20	26 350	4:43	05:55:50.9	13 55 57.3	2.67	09:47
100	"	"	"	25 900				2.65	
101	"	"	"	18 200	4:46			2.67	
102	"	7.0	"	35 000	4:47			2.70	
103	"	"	"	27 600		"	"	2.73	
104	"	"	"	33 700	4:50		"	2.77	09:59
105	"	"	"	30 000				2.81	
106	"	"	"	38 200	4:53			2.86	
107	"	"	"	52 400				2.91	
108	"	"	"	33 500	4:58			2.95	
109	"	"	"	33 000				3.00	
110	"	"	"	34 700	4:59	"	"	3.05	
111	2063 Bands	12.0	0.10	16000/1000	5:13	12:44:27	19 48:52	1.09	-01:50
112	"	"	"	17000/1000	5:34	22.8	46.49	1.06	-01:59
113	"	"	"	20700	5:55			1.04	
114	"	"	"	18.8 K	6:16	12:44:14	19 42:47	1.03	-00:27
115	"	"	"	21.1 K	6:37			1.02	
116	"	"	"	22.1 K	6:58			1.03	100:14

Frame prefix: SP96C

Telescope: 61"

Sheet #: 6

Date: APR 11/12

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Observers: HICKS, FINK

THUR

Guidepoint: 393.0, 395

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LIA, VME crashes, clouds, etc.
117	2063 BACHHUS	1200	0.5	22.1K	7:18	12:44:00	19:36:57	1.03	I SEE SOME WINDGETTING
118	"	"	"	23.4K	7:39			1.05	+00:55 WORSE!
119	"	"	"	22.5K	8:00			1.07	+1:16 EVEN WORSE
120	COMP 5534	2.0	1.0	32K	8:30	14:50:66	23:55:39	1.01	
128	"	"	"		8:37			1.01	
129	SUPER COMP BS 5960	1.25	1.0	31K	8:42	16:60:55	33:18:58	1.04	
137	"	"	"		8:52			1.03	
138	BS04a1	500	"	37 000	9:18	17:20:00	-19:19:12	2.11	-02:21
139	"	"	"	45 000	9:20	"	"	2.09	
140	"	200	"	3230/900	9:21	"	"	2.08	
141	"	"	"	3294/1142	9:22	"	"	2.08	
142	"	"	"	3298/1016	9:23	"	"	2.06	
143	P/Komp	500	0.50	1800/1200/1000	9:				
144	"	1200	"	~2600 net 2420/1700/1000	9:30	17:55:49	-16:43:16	2.01	-2:26
145	"	"	4	~2800 net. 4600/1700/1000	9:51			1.85	
146	"	"	"	~3000 net 4800/1800/1000	10:12			~1.70	Non-3 star's time
147	"	"	"	4700/1900/1000	10:34			1.65	
148	Hahn Bopp	"	"	18200/5000/1150	11:00	19:44:31	-18:47:49	2.31	
149	"	"	"	1840/2800/1000	11:20	"	:44	2.09	-02:22
150	"	600	"	10300/1900/1000	11:41				
151	"	600	"	10500/2100/1000	11:52	"	" 57	1.86	-01:50 1.81 at end

remik →

Frame prefix: SP10C

Telescope: 61"

Sheet #: 7

Date: April 12/13

Focus: 3940

Iris: 3.00

Humidity:

Tailpiece:

Balance:

Temp: 37/41

Guidepoint:

Observers: FAY, HICKS

re-merge →

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LIA, VME crashes, clouds, etc.
152	Hyalite	30	0.50	84 800	2:41	02:59 13.1	+38:14:14	2.69	05:25
153	"	20	"	40 200	2:41:14			2.73	05:42
154	"	"	"	37 900	2:41:24			2.77	05:41
155	"	"	"	38 400	2:41:40			2.79	
156	"	30	0.25	35 180	2:52			2.94	05:56
157	"	"	"	38 220	2:54			2.98	
158	"	"	"	31 000	2:55			3.02	
159	"	"	"	28 600	2:57			3.06	
160	"	300	"	~6400	2:58	2:59 18.5	+38 14:37	3.10	what + +65 8+50"
161	"	"	"	23600	3:05			3.30-3.45	ANOTHER OFFSET
162	SK	200	"		3:16	3:55 506	+38 14:30	3.20	→ 3.36
163	BS 2067	7.0	1.0	37 000	4:35	5:55 51	13 56 07	2.52	
164	"	"	"	37 000	4:25			2.54	
165	"	"	"	43 800	4:38			2.58	
166	"	"	"	41 900	4:43:12			2.69	
167	"	"	"	36 900	4:44			2.72	
168	"	"	"	37 100	4:46			2.75	+04:54
169	"	"	"	46 900	4:47			2.79	
170	"	"	"	36 700	4:48			2.82	
171	"	"	"	42 600	4:49			2.86	
172	"	"	"	37 500	4:51			2.90	+04:59
173	"	"	"	39 200	4:52			2.94	
174	"	"	"	33 800	4:54			2.99	
175	"	"	"	45 500	4:56			3.02	

Sat. 1. X has given to Tom Flannery

Frame prefix: SPIK

Telescope: 61"

Sheet #: 9

Date: April 15/16
Mon/Tues.

Focus: 5780
Iris: 300
Tailpiece: 210
Balance: 510

Humidity: 47

Temp: 44/50

Observers: Fink, Hicks, Collins

Guidepoint: 3949, 297

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.
189	Hyalohale	10	0.50	40 000	02:31:10	21:55:50	36:19:03	2.92	-05:51 mult beam
190	"	"	"	45 000	21:34			2.98	
191	"	20	"	30 800	21:35			3.03	mult beam
192	"	15	0.25	30 000	21:40			3.14	
193	"	"	"	40 700	21:41			3.18	
194	"	"	"	28 200	21:42			3.22	
195	"	30	"	15 000	21:44	255:56	36:19:36	3.26	-06:03 $\alpha = +6.8 + 50''$
196	"	30			21:50	256:20	36:20:20	3.46	-5.64 mult effect
									very Na H out, 10' at
197	G49-49	120	t2mm	12 000	3:27	5:59:44	02:43:17	2.00	
198	"	30	0.50	E 383 nully	3:42	5:59:44.4	02:43:18		mult GP + pink E GP 401.4, 395.
199									mult GP 7 pairs W GP 387.4 395
clouded over quite badly - while doing at 2 am									
194	RS 7037	102	1.00	13 000	10:42	19:59:38	-09:57:43	2.02	
200	"	20	"	10 000	10:45	"	"	1.99	-02:57
201	"	40	"	36 000	10:48			1.96	-02:59
202	"	"	"	37 000				1.95	
203	"	"	"	37 000	10:50			1.94	
204	"	"	"		10:51			1.93	
205	"	"	"	35 000	11:10			1.85	fill down

no back:

Frame prefix: SP96C

Telescope: 61"

Date: Apr 16/17

Inc/Wind

Focus: 3750

Iris: 300

Tailpiece: 209

Balance: SW

Sheet #: 10

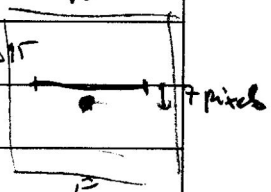
Humidity: 47%

Temp: 44/49

Guidepoint: 394.3, 295

Observers: Hicks Ark, Ullin

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.
206	BS7637	40	1.0	3900	11:10	19:59:39	-09:57:47	1.78	Down still for warm
207	"	"	4	3900	11:11	"	"	1.77	
208	"	"	4	4000	11:13	"	"	1.75	Core star compressed.
209	Hole-bags	1200	0.10	22400/1200	11:19	13:44:47	-18:29:15	1.96	-02:08 reasonably clean near Hole-bags
210	"	"	"	21500/1200	11:21	"	"	1.92	but not photometric 1.73 good exposure
at down a fair amount of haze about; but reasonably clean near Hole-bags									
211	Hydrate	10	0.20	5600/800/1200	2:20:39	2:54:36.2	36:41:57.72	2.96	05:51:18 still faint light
212	"	10	4	5200/500/1200	2:29	"	"	3.04	out
213	"	"	"	2500/560/1200	2:32	"	"	3.11	some haze
214	"	10	0.25	1460/180/1200	2:36	2:57	35:41:33	3.23	Hydrate? reasonably clean
215	"	30	"	4400/240/1200	2:37	"	"	3.28	
216	"	4	"	3500/220/1200	2:39	"	"	3.34	
217	"	"	"	5200/200/1200	2:41	2:54:32.5	35:41:26	3.39	
218	"	300	"	1460/1300	2:43:20	2:54:41.5	35:42:12.6	3.47	offset 2+6" δ +50"
219	"	"	"	7135/11200	2:50	2:54:44.2	35:42:53.5	3.71	-95" offset again
220	G99-49	60	0.50	12800/1200	3:41:28	5:59:50.0	02:43:10.0	2.23	N
221	Crater	300	"	2400	3:47	5:59:46.6	02:43:15.1	2.36	offset GP 401.3, 515
222	"	1200	1	4500	3:55	5:59:49.74	2:43:17.2	2.50	E
223	"	1	"		4:24	5:59:50.47	2:43:23.4	3.30	E N



offset GP to appropriate side

Frame prefix: SP16C

Telescope: 61"

Sheet #: 11

Date: April 16/17

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Ank, Keks, Collins

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.
224	RS 2007	5.0	1.0	50 800	4:10	05:55:49	13:56:24	3.45	
225	"	"	"	30600				3.48	
226	"	"	"	29 000				3.53	
227	"	"	"		4:53			3.79	
228	"	"	"	29700	4:57			3.61	
229	"	"	"	26300				3.65	
230	"	"	"	33800	4:56			3.70	
231	"	"	"	28900	4:57	"	"	3.75	
232	RS 2141	2.0	1.0	20 000	5:26	6:205:52	35:28:58.5	2.70	
233	"	3.0	"	29900	5:27			2.73	
234	"	"	"	29700	5:28	"	"	2.76	
235	"	"	"	30 000	5:29			2.78	
236	"	"	"	25 800	5:28	"	"	3.00	
237	"	4.0	"	41 900	5:39	"	"	3.03	weak in filter
238	"	"	"	37 600	5:40	"	"	3.06	
239	"	"	"	38 800	5:41	"	4	3.08	
240	"	"	"	40700	5:			3.15	
241	"	"	"	34 000	5:46			3.25	
242	"	"	"	27 100	5:48			3.28	
243	"	"	"	32 400	5:49			3.31	
244	(STD) BS 4662	0.15	1.0	30 K	6:00	12:45:35	-17:30:39	1.55	
245	"	"	"	384				1.55	
246	"	0.15	"	31 K				1.55	
247	"	"	"		6:03			1.55	
248	"	"	"					1.55	weak for 2"
249	BS 0732	2.0	1.0	18500	9:45	19:59:39	-09:57:40	2.95	
250	"	4.0	"	44000/1150	9:46	"	"	2.88	

Frame prefix: SP11C

Telescope: 61"

Sheet #: 12

Date:

Focus:

Humidity: 51%

Iris:

Tailpiece:

Balance:

Temp: 33/37 cel

Guidepoint:

Observers:

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.
251	7637	40	1.0	43 640	9:57	19:59:38	-09:57:45	2.78	
252	BS 6757	40	1.0	21 200	9:52	"	"	2.75	
253	"	40	1.0	45 000	10:10	"	"	2.58	
254	"	300	1.0	59 000	10:12	"	"	2.36	
255	"	"	"	41 000	10:13	"	"	2.34	
256	"	"	"	42 600	10:14	"	"	2.32	
257	HALE-Bopp	1200	0.10	32 000?	10:22	19:44:54	-18:24:55	2.55	* to south of comet + 2 minutes
258	"	"	"		10:44	star in the way.		2.20	JUMP IN EAST, two times ALSO SMEARED IN DEC - 15 MIN
259	"	"	"		11:06			2.03	star is still in
									star was may also slit in sec without star; did not want to miss it if slit

Frame prefix: FR96C

Telescope: 61"
Date: April 10/11

Focus: 3735
Iris:
Tailpiece:
Balance:

Humidity: 49%

Sheet #: 1

Observers:

WED.

Temp: 38/42

Guidepoint: 392.3 395

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LIA, VME crashes, clouds, etc.
1	H VARY M662	3.0	B/P.	OK PKV	3:04	3:01:09	39:38:20	2.93	
2	"	"	"		3:11			3.08	
3	"	"	"		3:14			3.17	
4	"	"	"		3:19			3.32	
5	"	"	"					3.45	
X	WE OFFSET +4.7SEC TIME +70 DEC TO MOVE SET								
X	WE TAKE 320 SEC EXP AND I TAKE GUIDING FRAM+								
X	IN THE MIDDLE								
6	"	3.0	"		3:27	3:01:13	39:39:10	3.56	
X	LOOKS LIKE WE NEED TO MOVE IT A LITTLE MORE								
7	"	3.0			3:32	3:01:15	39:38:46	3.75	
X	OKAY, 7, GOES W/ SP96B016								
8	"	"	"		3:34			3.86	
X	WE HUNT FOR 96B1 SZECSZETANSKE								
9	96B1	30	B/D	4K phot	5:14	9:21:42	-10:17:01	1.56	
X	WE FIND 2063 BACKHUS 200 SEC SOUTH OF EPHEM								
X	2063	20		6K phot					
10	2063	20	"		11:43	12:49:09	22:11:15	1.05	-1:06

9h

" " " "

7:55

1.02
1.05

96c

Frame prefix: FR96C

Telescope: 61"

Sheet #: 3

Date: April 11/12

Focus: 3495

Humidity: 88%

Observers: HICKS FINK

Thur

Iris:
Tailpiece:
Balance:

Temp: 32/36

Guidepoint: 393.0 395

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.
101	96BZ HVAK	2.0	B/Di	31 Peak 99K WHOT	2:46	3:00:12	38:55:29	2.64	
102	"	"	"		2:50	3:00:12	38:55	2.74	
103	"	"	"		3:01			2.98	
104	"	"	"		3:03			3.04	
X	WE OFFSET DOWN TAIL + 6 sec time + 50" DEC								
X 105	"	2.0	"		3:07	3:00:18	38:55:43	3.16	FOR SP96C077
105	OPRS DID NOT SAVE FOR 1ST OFF SET!								
105	"	"	"		3:16	3:00:24	38:56:18	3.42	FOR SP96C078
106	"	"	"		3:20	3:00:23	38:56:04	3.58	SP96C079
167	"	"	"		3:25	3:00:17	38:55:14	3.75	SP96C080
108	"	"	"		3:26			3.79	
X	WE GO TO BACHUS AFTER COMPS, STD DIMMER THAN YEST 50								
109	2063	3.0	B/Di	77 K ^{whot}	5:15	12:44:27	19:48:38	1.09	-1:29
↓									
215	"	"	"		8:19	12:43:47	19:31:05	1.10	+ 1.36
X	Kopfg	36	B/Di	20 K	9:18			2.10	Busy * field
216	MYSTERY								
217	HALE BOFF	10	B/Di	51 K	11:04	19:44:31	-18:47:49	2.25	

Frame prefix: FR96C

Telescope: 61"

Focus: 3470

Sheet #: 7 96c

Date: APRIL 12/13 FRI

Iris:
Tailpiece:
Balance:

Humidity:
Temp:

Observers: HICKS FUNK

Guidepoint:

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.
218	96B2 HYAK4	1.5	B	74K	2:36	2:59:13	38:14:27	2.58	VERY WINDY
219	"	"	"		2:47			2.81	
220	"	"	"		2:53			2.94	
221	"	"	"		2:57			3.05	
X	WE OFFSET			+6 SEC	+50"	to move DOWN TAIL			
222	"	"	"		3:00	2:59:18	38:14:32	3.11	FOR SP96C161
X	WE OFFSET			AGAIN		, WITH PADDLE NOW DOWN TAIL			
223	"	"	"		3:08			3.40	FOR SP96C161
224	"	300	NAD		3:11			3.50	5892/4.3 7°C
225	"	300	H α +	SAT?	3:10	2:59:23	38:14:41	3.82	FILTER WRONG IN HEADER -4.05 6202/18
226	"	150	6250 COAT		3:27			4.17	-?
227	SKY	300	NAD		3:35	3:20:34	+38:14:33	3.58	-3.81
228	"	300	H α +		3:42			3.82	-4.06
229	"	150	6250 COAT		3:50			4.17	-4.32
230	BS 1662	25	NAD	30K	4:13			3.69	
231	"	"	"					3.75	
232	"	"	"					3.81	
233	"	18	H α +		4:19	5:07:28	+9:29:09	3.97	
234	"	5	"					4.01	
235	"	5	"					4.07	

Frame prefix: FR96L

Telescope: 61"

Sheet #: 5

Date: APRIL

Focus: 3440

Humidity:

Observers: Hicks, Fink

12/13 FK1

Iris:

Tailpiece:

Temp: 37/41

Balance:

Guidepoint: 393, 395

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.
236	⁸⁵ 1662	2.0	6250 CONT	84	4:24			4.29	
237	"	2.0	"	414	4:25			4.36	
238	"	6.0	"		4:26			4.46	
X	PRETTY WINDY, GUSTS UP TO 25 MPH								
X	AFTER SPEC CONT AND STD, WE TAKE DOME FLATS								
239	DOME FLAT	30	NAD	25K		E1=24.6	AZ=57.3	TO	MATCH COMET
[↓] 242	"	"	"						
243	DOME FLAT	5	H2O ⁺	23K					
246	"	"	"						
247	DOME FLAT	5	6250 CONT	23K					
[↓] 250	"	"	"						
251	DOME FLAT	1.0	Blue Di						} SAVED ON SYS. UNDER FRAMES
[↓] 254	"	"							

252

Frame prefix: FR96C

Telescope: 61"

Sheet #: 6

Date: April 15/16 Mon

Focus: 3791

Humidity: 47

Observers: Hicks, Fink Collins

Iris:

Tailpiece:

Balance:

Temp: 44/56

Guidepoint: 394.4, 395

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.
255	96 B2 HYAK	0.5	B/Di	80K	2:32	2:55:50	36:14:03	2.92?	
256	"	"	"		2:35			3.00	HAZY, CIRRS
257	"	0.5	"		2:34			3.11	
X	DR FINK CHANGES TO 0.25 MM								
258	"	"	"		2:43			3.22	
X	WE OFFSET α 6 sec δ +50" To go down slit								
259	"	"	"		2:45			3.30	SP96C195
X	WE OFFSET AGAIN α = 6 sec δ = +50"								
260	"	"	"		2:52	2:56:02	+36:20.7	3.51	SP96C196
X	DR FINK CRANKS IN SILVER MIRROR AND NAD								
261	"	120	NAD	42K	2:58	2:56:02	+36:20:06	3.76	-3.86
262	"	120	H α		3:01			3.91	-3.99
263	"	120	CO α		3:04			4:05	-4:14
ERASE DISK FULL	"	60	6150 CONT		3:08			4:26	-4:31
X	BOTH DISK FULL, DELETE 100-199 FROM IM α								
264	"	60	6250 CONT		3:15			4.61	-4.68 EL 12.3
X	399.4, 395 GP FOR TOM 44 LHS 243 LBROWN DWARF								
X	NO LUCK, WE TRY 401.4, 395 w/ 0.5mm								

401.4, 395

Frame prefix: FR96C

Telescope: 61"

Sheet #: 7

Date: 17/18

Focus:

Humidity:

Observers: Hicks, Frank Collins

TUES

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint: 394.3, 395

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.	
X	WE START			FOCUS, GP					SEQUENCE WHILE STILL LIGHT, CIRRLUS	
X	ALL OVER,			HEAVY					CLOUDS WHERE HYAKU IS,	
265	HYAKU	10	B/D	83K	2:40	2:54:35	35:41:27	3.36		
X	MOVED			$\alpha = +6$ SEC					$\delta = +50''$ TO GO DOWN TAIL	
266	HYAKU	10	"		2:45			3.51	SP96C218	
X	OFFSET			AGAIN BY					HAND 5 219	
267	"	"			2:53	2:54:47	35:42:49	3.83	SP96C219	
X	IMAGING									
268	HYAKU	120	NAD	39K BK	2:57	2:54:47	35:42:41	4.05	-4:15	
269	"	"	H ₂ O ⁺		3:00			4.20	-4:30	
270	"	"	CO+		3:03			4.36	-4:48	
271	"	60	G250 CONT		3:07			4.58	-4.64	EL=12° AT END
272	SKY	60	G250 CONT					4.57	-4.60	
273	"	120	CO+		3:14			4.37	-4.49	
274	"	120	H ₂ O ⁺		3:23			4:20	-4:30	FAIR AMOUNT
275	"	120	NAD		3:26			4:05	-4:05	OF HAZE
X	WE CHANGE			GP	401.3	395				FOR TOM'S OBJECT, NOTHING!!
X	WE TRY			OTHER						SIDE OF STAR GP = 387.3, 395

Frame prefix: F796C

Telescope: 61"

Sheet #: 8

Date: APR 12 16/17

Focus:

Humidity:

Observers: Hicks, Fink, Collins

TUES

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint: 394.3, 305

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.
276	SS 2667	2.0	NAD		5:02			3.98	
277	"	10.0	"		5:3			4.06	
278	"	"	"					4.14	
279	"	10.0	H ₂ O ⁺		5:06			4.23	
280	"	"	"					4.31	
281	"	"	"					4.36	
282	"	5.0	CO ⁺					4.44	
283	"	10	"					4.51	
284	"	"	"		5:11	5:55:50	13	4.58	
285	"	5.0	⁶²⁵⁰ CO ⁺		5:13			4.76	
286	"	5.0	"					4.84	
287	"	"	"					4.89	
288	DOME FLAT	20	CO ⁺						
289	"	"	"						
290	"	"	"						
291	"	"	"						
292	HALE BOPP	5	V+R	^{12K} 387K phot	11:28	19:44:49	-18:24	1.87	
293	"	30	"					1.86	

