

Frame prefix: **BR96D**

Telescope: **61"**

Focus: **3780**

(SEEMS BAD)

Sheet #: **1**

Date: **MAY 13/14**

Iris:

Humidity:

Tailpiece:

Balance:

Temp: **46/51**

Guidepoint:

Observers: **HICKS, FINK, 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.
001	HALE-BOPP	5	B1D	65K phot	16:30	19:39:35	-16:16:31	1.55	
X	ALL SORTS OF PROBLEMS!								
	BS 5968	0.1							
X	MAY 14/15 Focus 3786, WE PLUMED ON SPEC CAMERA DURING THE DAV TEMP 57/62 HUM 42% GP 393.6 395								
X	WE HUNT FOR AND FND 1992 L2 13K PHOT IN 20SEC								
X	WE FND KOPFF 30K IN 30SEC VARIABLE PHOT NOT CLEAR								
002	KOPFF	30	B1D	45K	9:06			1.65	
003	"	"	"		9:13			1.63	
004	"	"	"		9:18			1.61	
005	"	"	"		9:26			1.59	
006	"	"	"	50K	9:33			1.57	
007	"	"	"		9:44			1.55	
008	"	"	"		9:51			1.51	

Frame prefix: FR 960

Telescope: 61"

Sheet #: 3

Date: MAY 15/16

Focus: 3770

Iris:

Humidity:

Tailpiece:

Balance:

Temp: 58/60

Guidepoint: 393.6 395

Observers: HICKS, FINN, 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.
X	WE SEARCH FOR 1992 LC					NO PROB	14K		
X	AFTER INTEGRATING ON					LC FOR	1 1/2 HR		WE WANT FOR
X	P/SPACEWATCH, NO DICE,					BACK TO LC			
X	WE NOW TURN OUR ATTENTION					TO P/KOPFF	FULL OF		STARS
014	KoppF	30	B/D	47K	8:59	18:50:09	-15:50:23	1.67	
015	KoppF	30	B/D		9:12			1.63	
016	"	"	"		9:18			1.61	
017	"	"	"		9:26			1.58	
018	"	"	"		9:33			1.57	
019	"	"	"		9:39			1.55	
020	"	"	"		9:44			1.54	
021	"	"	"		9:49			1.73	
022	"	"	"		9:56			1.52	

Frame prefix: FR96D

Telescope: 61"

Focus: 3800

Sheet #: 5

Date: 5/16, 17

Iris:

Humidity: 48%

Tailpiece:

Balance:

Temp: 57.159

Observers: HICKS, COLLINS (KINK OFF TO CA)

Guidepoint: 3.13.6, 3.98

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.
030	SKYFLAT	1.0	NAD	15K	2:11			1.06	
031	"	2.0	"	25K					
032	"	2.5	"	28K					
033	"	3.0	"	30K					
034	"	3.3	"						
035	"	1.0	H ₂ O ⁺	36K					
036	"	1.0	H ₂ O ⁺	30K					
037	"	1.0	6250	19K					
038	"	2.0	"	28K					
039	"	2.5	"	26K					
040	"	3.3	"	25K					
041	"	2.0	Bld.	30K					
042	"	2.2	"	25K					
043	"	3.0	"	25K					
044	"	3.5	"	21K					
045	BS 5911 COMP	0.3	"	975K	3:55			1.71	
046	"	0.25	"		3:55			1.69	
047	"	0.25	"		3:57			1.67	

Frame prefix: FR96D

Telescope: 61"

Sheet #: 6

Date: MAY 16/17

Focus:

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Observers: HICW, COLLINS

THUR

Guidepoint: 393.6, 345

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.
048	BS 5911 COMP	0.25	B/p.		3:58			1.66	
049	"	"	"		4:00			1.65	
050	"	"	"		4:01			1.64	
051	BS 5969 SUPER COMP	0.15	"	900 K	4:08	16:00:59	33:18:47	1.41	
052	"	"	"		4:11			1.40	
053	"	"	"		4:13			1.38	- 3:26
054	"	"	"		4:18			1.36	
055	"	"	"		4:19			1.36	
X	WE NOW DO			1996 J					
056	1996JA1	30	"	40 K?	4:42			1.28	- 2:36
↓									
106	"	"	"	20 K	6:09			1.08	- 1:08
122	"	"	"	27 K	6:35			1.05	
134	"	"	"	31 K	6:54			1.04	
151	"	"	"	33 K	7:21			1.04	+ 0:08
152	BS 5911	0.25	"	875 K	7:52			1.06	MAY BE COMPROMISED
153	"	"	"		7:53			1.06	BY HAZEL

Frame prefix: FR96D

Telescope: 61"

Focus: 3800

Sheet #: 8

Date: MAY 17/18

Iris:

Humidity: 47%

Observers: HICKS COLLINS

FRE

Tailpiece:

Temp: 54/56

Balance:

Guidepoint: 394.0, 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.
162	BS 5967	0.25	B10	686	3:56	15:53:08	-13:12:23	1.65	
163	"	"	"		3:58			1.63	
164	"	"	"		4:00			1.62	
165	"	"	"		4:04			1.59	WE DELETE OFF SPEC COMP
166	"	"	"					1.58	
167	BS 5968	0.25	"	737K	4:11			1.36	
168	"	"	"		4:18			1.35	
169	"	"	"		4:19			1.34	
170	"	"	"		4:20			1.34	
171	"	"	"		4:21			1.32	
172	1996JA1	30	"	89K	4:44			1.21	
173	"	"	"		4:56			1.19	WE CHANGE SLIT TO 14M
174	"	"	"		5:07			1.15	
210	"	"	"		5:30			1.11	-1.27
211	"	"	"	57	5:37			1.10	
212	"	"	"	62K	5:47			1.08	PAST MIN? YES!
213	"	"	"	71K	6:02			1.07	-0:55
214	"	"	"	83K	6:13			1.06	
215	216	"	"	87K	6:24			1.05	-0:32

SPEC

210

211

212

213

214

215

Frame prefix: SP96D

Telescope: 61"

Sheet #: 1

Date: May 13/14
Randy

Focus: 3780

Humidity: 49

Iris: 3w

Tailpiece:

Balance: 350

Temp: 46/51

Guidepoint:

Observers: Hicks Fink 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.
001	Hale-Kopp	300	0.50	12500/1500	10:46			1.55	-vacuum problem with spec
002	"	600	"	24000/14800	10:53	19:39:35	-16:16:25	1.54	-w>39 = ^{down} guide camera stopped working
	<ul style="list-style-type: none"> - Hamell et al did some lighting for ~ 11:30 pm. - The spec telescope focus. - We set up equipment but the had problem with the <u>both</u> cameras not ready yet. - After a while they started working but, the guide camera stopped working again! - New spec camera has bad vacuum and won't hold nitrogen 								
003	^{comp} 05 5968	1.5	1.0	32 K	11:53	16:00:53	33:18:49	1.54	
004	"	1.25	"	30 K				1.55	
005	"	"	"					1.55	
006	"	"	"					1.56	
007	"	"	"					1.56	
008								1.57	
	<ul style="list-style-type: none"> - Drove down in G³⁰-P³⁰ construction opening to get vacuum pump - Pumped down during day; this seemed to solve vacuum problem. 								

Frame prefix: SP960

Telescope: 61"

Sheet #: 2

Date: May 14/15

Tuesday night

Focus: 3776

Iris: 3.0

Humidity: 42

Tailpiece: 210

Balance: 35

Temp: 57/60

Observers: Hicks, Pink, Collins

Guidepoint: S 93.6, 295

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.
009	1992 LC	600	0.50	max full on mt 1207	03:46:42	redn. 10:05:15	46 27 08.5	1.06	+01:26 GUIDING TR finish
009	"	"	"	21000 1300 of 3500/1200	3:41:03	10:05:23	40 24 25	1.08	01:40
010	"	1200	"	App Mt 5500/1420/1260	3:42:20	29	23 26	1.09	01:51
011	6 min for star	"	"	4260/1360/1260		41	21 34	1.13	02:12 DARK SLIT 4:08:09 4:14:20
012	"	"	"	600/1410/1260	4:20:22				
013	"	"	"	5900/1480/1160	4:45				
014	"	"	"	5290/1592/1265	5:06			1.30-1.35	5:16 CLOUDS MOVE IN RIGHT AT END
015	BS 4277 cap	1.0	1.0m	25000	5:33	10 59 15	+40 27 13	1.20	+02:45
016	"	"	"	22000	5:35				
017	"	"	"	27000	5:36			1.21	
018	"	"	"	24000	5:36:47			1.21	
019	"	"	"	22000				1.21	
020	BS 5408 cap	"	"	32000	5:47	16:00 59	+83 19 00	1.11	-02:03
021	"	"	"	32000				1.11	-02:01
022	"	"	"	26000					
023	"	"	"	23000	5:51				
024	"	"	"	29000	5:53			1.10	
025	"	"	"	27000	5:54			"	zone cirrus & haze
026	BS 5511 std	0.20	"	19000	5:59	14 46 03	01 54 25	1.17	-00:36 2nd could be compared
027	"	"	"	15000	6:04:45			"	-00:39
028	"	"	"	"	6:02				
029	"	"	"	15300	6:04			1.17	-00:31
030	"	"	"	15000	6:04				
031	P/kapff	600	0.50	mt 2700 3700/1500/1200	7:46:45	18 48 51	-15 51 20	1.74	-01:51 faintly photometer strong variable
032	"	1200	"	mt 4500 6100/1600/1260	7:58	"	"	1.09	Sample cont later/minute

definite variability; may star in fact

Frame prefix: **SP960**

Telescope: **61"**

Sheet #: **4**

Date: **May 15/16**

Focus: **3770**

Iris:

Humidity: **51%**

Tailpiece:

Balance:

Temp: **58/60**

Observers: **Fink, Hicks, Collins**

Guidepoint: **393.6, 39.5**

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	1992LC	1200	0.5	4091/1665/1278	3:31	10:14:03	+38:17:40	1.06	
052	"	"	"	4740/1431/1278	3:52			1.09	
053	"	"	"	4223/1473/1255	4:13	10:14:25	+38:13:40	1.13	
054	"	"	"	4847/1471/1241	4:33	10:14:36	+38:11:45	1.17	
055	"	"	"	4388/1434/1219	4:54	10:14:47	38:09:53	1.23	final sec z = 1.29
056	Note: looked for p/spacematch but couldn't find it. Returned to 1992LC								
056	1992LC			4589/1464/1255	5:45	10:15:16	+38:05:03	1.42	Note: name wrong - p/spacematch in file
	Notes: faint star will be passing in the South, STAR RIGHT ON TOP A LITTLE WHILE LATER! ↴								
057	1992LC			3400/1500/1250	6:06	10:15:27	+38:03:09	1.54	
058	"	1200	"	29,505	6:27			1.68 - 1.85	
059	^{comp} BS 5968	1	1.0	29,505	7:08	16:00:54	+33:19:13	1.01	comp
068	"	"	"	"	"	"	"	1.01	
069	^{comp} SAO 100038	5	1.0	26486	7:32	12:18:53	+16:34:23	1.54	
078	"	"	"					1.61	
079	^{comp} SAO 87464	4	1.0	21000	7:54	19:37:08	+28:29:52	1.40	
088								1.36	
089	BS 7914	4	1.0	31300	8:18			1.74	
098					8:27			1.71	

Frame prefix: SP960

Telescope: 61"

Focus: 3800

Sheet #: 6

Date: MAY 16

Iris:

Humidity: 48%

Tailpiece:

Balance:

Temp: 57/59

Observers: HICKS, COLLINS

Guidepoint: 3936
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.
120	BS4277 comp	.75	H0	41000	3:23	10:59:16	+40:29:02	1.02	
121	"	.75	H0	33160	3:24	"	"	1.02	
122	"	"	"	29108	3:25	"	"	"	
123	"	"	"	14312	3:27	"	"	"	
124	"	"	"	26373	3:28	"	"	"	
125	"	"	"		3:29	"	"	"	
126	"	"	"	25687	3:30	"	"	"	
127	"	"	"	28623	3:31	"	"	1.05	
128	"	"	"	27689	3:32	"	"	"	
129	BS4534 (STD)	.05	"	20691	3:40	11:48:52	+14:35:50	1.05	
130	"	"	"	27241	3:41	"	"	"	
131	"	"	"	19086	3:42	"	"	"	
132	"	"	"	18807	3:44	"	"	"	
133	"	"	"		3:45	"	"	1.05	
134	COMP BS 5911	2.0	"	29076	3:52	15:53:07	+13:12:23	1.70	
135	"	"	"	26439	3:54	"	"	1.68	
136	"	"	"	24844	3:55	"	"	"	
137	"	"	"	32034	3:56	"	"	1.67	

Frame prefix: SP96D

Telescope: 61"

Sheet #: 7

Date: May 16/17

Focus: 3800

Iris:

Humidity: 48%

Tailpiece:

Balance:

Temp: 57/59

Observers: Hicks, Collins

Guidepoint: 393.6, 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.
138	comp BS 5911	2.0	1.0	28438	3:57	15:53:07	+13:12:22	1.66	
139	"	"	"	22363	3:59			1.65	
140	"	"	"	24274	4:00			1.64	
141	"	"	"	30511	4:01			1.64	
142	COMP BS 5968	0.75	"	18,103	4:08	16:00:59	+33:18:47	1.40	
143	"	0.85	"	18,423	4:10			1.39	
144	"	"	"	18,833	4:11			"	
145	"	"	"	18,221	4:12			1.38	
146	"	"	"	18,945	4:13			"	
147	"	"	"	20,119	4:14			"	
148	"	"	"	23,810	4:17			1.36	Slight delay - guider VME locked up
149	"	"	"	21,869	4:18			"	
150	1996 JA 1	6.00	0.5	6153/1176/1146	4:42			1.28	
151	"	"	"	5504/1187	4:53			1.24	
152	"	"	"	5.5 K	5:03			1.21	
153	"	"	"	5.0 K	5:15			1.18	- 2:02 ∇ to south
154	"	"	"	4.4 K	5:26			1.15	
155	"	"	"	3.1 K	5:37			1.13	JUMP IN EAST HITTING ∇ to NORTH LADDER, PHOT COMP.

DROP IN PHOT REAL

JUMP IN EAST HITTING ∇ to NORTH LADDER, PHOT COMP.

Frame prefix: 5P96D

Telescope:

Sheet #: 8

Date:

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Observers:

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.
156	1996 J AI	600	0.5		5:49	15:35:32	16:43:48	1.11	-1:20 MIN
157	"	"	"	3.7K	6:00			1.09	
158	"	"	"	4.1K	6:11			1.08	
159	"	"	"	4.5K	6:22			1.06	
160	"	"	"	4.7K	6:33			1.05	
161	"	"	"	4.5K	6:43			1.05	
162	"	"	"	4.7	6:54			1.04	-0:22
163	"	"	"	4.1	7:05			1.04	
X	WE PAUSE AND WAIT FOR A TO SAIL THROUGH								
X	WE GO UP TO MOVE TO CAMP AND FIND HAZY GLOW								
X	IN VICINITY OF ASTEREROD AND BS 5911, WE THINK								
X	BS 5968 WILL BE IN THE CLEAR, BUT SOME OF								
X	THE MOST RECENT 1996 JAI EXP MAY BE								
X	COMPROMISED. Also seeing has deteriorated drastically - nominally 3								
	arc sec, blowing up to much worse sometimes								
164	BS 5911	2	1.0	22435	7:50	15:53:01	+13:12:34	1.06	
165	"	"	"	22226	7:52			"	
166	"	"	"	27058	7:53			"	

Frame prefix:

Telescope:

Sheet #: 11

Date:

MAY 17/18

Focus:

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Observers:

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.
196	B55911 (comp)	2	1.0	28K	4:04			1.58	
197	"	"	"		4:05				
198			"	26K	4:06				shutter may not have opened - peak could be wrong
199			"	26K	4:09				
200	B5 5968 (comp)	0.9	"	21K	4:15	16:00:59	+33:18:50	1.36	
201	"	"	"	23K	4:16			1.35	
202	"	"	"	22K	4:17			"	
203	"	"	"	25K	4:17:30			1.34	
204	"	"	"	26K	4:18			"	
205	"	"	"	32K	4:19			"	
206	"	"	"	25K	4:20			"	
207	"	"	"		4:21			1.33	
208	1996JAI	600	0.5	1364	4:40	15:20:37	+16:26:53	1.22	
X	NOTE: GUIDER CRASHED				TRACKING MAY BE OFF				
X	NOTE: OPENED SLIT TO 1.0								
209	1996JAI	600	1.0	43099	04:56	15:20:21	+16:26:36	1.18	
X	Note: redefined P1, P2 cursor pusher.				PROBLEM - SPEC. NEED N ₂ - ALSO LOTS OF				
X	SCATTERED LIGHT - SOURCE NOT APPARENT TAPED UP ZINDICATOR								

LIGHTS ETC. GUIDER COMPUTER CRASHED NEXT.

Frame prefix:

Telescope:

Sheet #: 12

Date: MAY 17/18

Focus:

Iris:

Humidity:

Observers:

Tailpiece:

Temp:

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.
210	1996 JA1	300	1.0	3597/1239/1128	5:24	15:19:35	+16:26:06	1.11	
211	"	600	"	10198/1369/1191	5:36	15:19:26	+16:25:52	1.10	
212	"	"	"	11227/1379/1228	5:47	15:19:13	+16:25:39.7	1.08	
213	"	"	"	13406/1312/1177	6:01	15:18:54	+16:25:21	1.07	
214	"	"	"	13489/1333/1106	6:14	15:18:38	+16:25:03	1.05	
215	"	"	"	13844/1326/1169	6:23	15:18:26	+16:27:01	"	
216	"	"	"	16702/1287/1191	6:35	15:18:11	+16:24:55	1.04	
217	"	"	"	16924/1306/1163	6:46			"	
218	"	"	"	15741/1314/1163	6:57			"	
219	B55911 (Comp)	2	"	35959/1135/1124	7:33	15:53:01	13:12:28	1.06	
220	"	"	"	30K	7:35			"	
221	"	"	"	30K	7:36			"	
222	"	"	"	32K	7:37			"	
223	"	"	"	34K	7:38			"	
224	"	"	"	34K	7:39			"	
225	"	"	"	34K	7:40			"	
226	"	"	"	28K	7:41			"	
227	B5 5968	0.9	"	29K	7:52			1.00	

