

Cornus box X 110-759
Y 50-699

Telescope: 61"

± RIS = 305

Frame prefix #: FR88J

Day of Week: Monday

RA offset: bias! -0,003

Focus: 3700 Humdty: 65 Sheet #: 1

Observers: Dolegrove

Date MST/UT: DEC 5/6

Dec offset:

Tailpiece: 36

Temp O/I: 32/38

DiSanti, Schulz

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.)
001	Arp 146	900	V		4:00:15	00:06:11.4	-06:41:45	1:32	tapped down 6.20 Sec 3 = 1.41
002		900	B		4:20:00	00:06:11.5	-06:41:43.5	1:52 Sec 2 = 1.48	
003			R		4:37:30	00:06:11.6	-06:41:41.7	2:09 Sec = 1.55	
004			I		4:55:40	00:06:11.8	-06:41:39.5	2:27 Sec 2 = 1.65	Focus = 3656 (~416,382)
005	DwJz	1.0	N/A						
006		1.0	N/A						
007	LAN 92-332/333	3.0	I		5:39:25	1:54:31.9	+0:42:54	1:23W 1:26	
008	"	"	"		4:1:35			1:25W 1:26	
009		"	R		44:24			1:28W 1:27	focus = 3696
010	"	"	R		46:23			1:30 1:27	
011	"	"	V		48:25			1:32 1:28	
012	"	"	V		52:04			1:36W 1:29	
013	"	60	B		54:39			1:38 1:29	
014	"	"	"		56:19			1:40W 1:30	
015	ARP 47	300	V		6:14:0	3:10:48.0	+1:16:40	0:41W Sec 1.19	

Telescope:

Frame prefix #: 88 J

Day of Week: Mon/Tues

RA offset:

Focus: 3696 Humdty: 82 Sheet #: 2

Observers: Schultz, Colony, W. Smith

Date MST/UT: Dec. 05/06

Dec offset:

Tailpiece: 36
Balance: 100/100 Temp O/I: 30/36

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.)
016	ARP 147	600	B	9800/3100	6:24:00	3:10:48	+1:16:40	0:51.5 1.20	
017	"	300	R	19000/4000	37:55			1:05W 1.22	
018	"	300	I	20000/5000	54:27			1:22W 1.25	focus → 3656
019	Hubble	5	V	12000/2100	8:43:36	6:38:38.1	+8:46:10	-0:16 1.09	Topped dewar 1:15
020	"	15	V		45:30			-0:14.5	
021	"	45	V		48:12			-0:12	
022	"	15	B	11000	51:08			-0:09 1.09	
023	"	45	B		53:30			-0:06.5	
024	"	135	B		55:30			-0:04.5 1.09	
025	"	5	R	11600	59:44			-0:00 1.09	
026	"	15	R		9:01:29			+0:01.5	
027	"	45	R		04:47			+0:05	
028	"	120	R		06:52			+0:07	
029	"	5	I	12700	11:11			+0:11 1.09	focus → 3656 (for I)
030	"	15	I		13:23			+0:13	

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus: 3656

Humdty:

Sheet #: 3

Observers:

Date MST/UT:

Dec offset:

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.)
031	Hubble	45	I		9:14:58	6:38:38.1	+8:46:09.6	0:15 W 1.09	
032	"	120	I		17:01			0:17	
033	"	15	I Hx cont	Hx cont	59:28			1:00 (1.13)	focus -> 3696 (Bullshit software)
034	"	30	Hx	10000+	10:02:15			1:02 (1.13)	
035	"	120	"		10:04:26			1:05	
036	"	300	"		09:36			1:08 (1.14)	
037	"	5	Hx cont	13000+	13:54			1:14 (1.15)	
038	Granny search	600	JTI I	sky 13000+	10:27:10	7:30:02.2	+25:00:01	0:36 (1.02-302)	focus -> 3656
039		300	V+R	~5600	10:40:02			0:49 (1.03)	focus -> 3696
040		600	"	~10700	47:00			0:58 (1.03)	
041	6' North	"	"		11:00:38		+25:06:01	1:10 (1.04)	
042		"	JTI		12:15			1:21 (1.06)	focus -> 3656
043	LAN 76280	10	I		35:10	8:20:30.3	+14:46:17	0:54 W (1.07)	
044	"	5	"		37:18			0:56 (1.08)	
045	"	5	R		39:53			0:59 "	

US

Telescope:

Frame prefix #: 885

Day of Week: Mon/Tues RA offset:

Focus:
Tailpiece:
Balance:

Humdty:
Temp O/I:

Sheet #: 4

Observers:

Date MST/UT:

Dec offset:

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.)
046	LAN 7289	5	R		11:43:43	8:20:30	+14:46:18	1:00W	(1.08)
047	"	"	V		50:04			1:09W	(1.09)
048	"	11	V		52:23			1:11W	"
049	"	10	B		55:02			1:13W	(1.10)
050	"	15	B		57:21			1:16W	"
051	"	3	V+R		12:14:58			1:33W	1.13
052	"	2	"		17:01			1:36W	
053	"	10	JAI		18:43			1:38	
054	BD+82015	0.5	Hx CONT		28:48	8:15:06	+739:19	1:53W	1.24
055	"	"	"		32:00			1:56	1.25
056	"	30	Hx		36:00			2:00	1.26
057	"	"	"		38:14			2:02	1.26
058	DARK	1.0							
059	DARK	1.0							
060	ARP 148	600	V		12:57:48	11:03:23.7	+40:54:31	0:26E	1.02

u.s. ↓

u.s. ↓

Telescope:

Frame prefix #: ~~FR55~~ J Day of Week: Tuesday

RA offset:

Focus:

Humdty:

Sheet #: 6

Observers:

Date MST/UT: Dec 6/17

Dec offset:

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.)
062	DWZ	1.0	V	3000					
063	DWZ	1.0							Vac 55%
064	FF	2.0	V	17000					
065	FF								
66		12.0	B						
67		12.0							
68		1.0	R						
69		0.3	R						
70		0.3	I						
71		0.3	I						
72		0.6	H6777						
73		0.6							
74		20.0	H6563						
75		20.0	H6563						
76	DWZ	1.0							

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 7

Observers:

Date MST/UT:

Dec offset:

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.)
77	DanR	1.0							
78	EF	0.6	v-R						
79	FF	0.6	v-R						
80	EF	0.2	S-I						Topped dew
81	FF	0.2	S-I						8:00 P.M.
82	Dark	1.0	N/A						
83	Dark	1.0	N/A						

US ↑

Using new O.S.

Telescope: 61"

RA Bias 0.003

(8)

Frame prefix #: FR98J Day of Week: wed

RA offset:

Focus:

Humdty: 73% Sheet #:

Observers: Fink, Schuit^z, Colegrove Date MST/UT: Dec 7/8

Dec offset:

Tailpiece:

Temp O/I: 32/36

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.)
84	NGC 436	20s	B		2:01:55	1:15:30	+58:46:34	Seq 1.15 -1:17	Filled Dewar 4:30
85	"	10s	V		2:14:04	"	"	-1:16	focus @ 3646
86	"	10s	R		2:16:55	"	"	-1:13	Seq 1.14
87	"	10s	I		2:19:36	"	"	-1:11	focus @ 3604 = I
88	OArK	1	N/A	12936	2:25:12				
89	OArK	1	N/A						
90	AN 44/281	10	V		2:40:24	0:28:31	+50:19:52		topped off dewar 7:50 LMT
90	FL Field	0.75	V				-32:38:00		varial @ 70%
91	"	0.75	V						
92	"	5.0	B						
93	"	5.0	B						
94	"	0.4	R	30,000					
95	"	0.4	R	30,000					
96	"	0.15	I	29,000					
97	"	0.15	I	29,000					

Telescope: 61"

Frame prefix #: FR88J Day of Week: Thursday

RA offset:

Focus:

Humidity: 89 Sheet #: 10

Observers: Fink, Schultz Date MST/UT: DEC 8/9

Dec offset:

Tailpiece: 37

Balance: 98

Temp O/I: 22/26

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.)
106									Filled dewar 6:15 Topped off dewar 11:20
	Friday			Dec 9/10					TEMP 24/28 HUM 94
106	SAT-1	5m	V+R	wt/100					Filled dewar 7:00 Temp 28/32
									Hum 89
106	SAT-1	5m	V+R			9:15:25	+14:10:00	-1:17	AM 1.18 cut off
107	-2	60s	"	14m/1360	9:26:10	"	+14:16:55	-1:54	6' N 1.17 3670 fm
108	SAT-2	60s	"	19m	9:30:29	"	"	-1:10	1.17 -0.005 -0.010 #10
109	SAT-2	"	II	22m	9:52	13:13	:48	-1:28	1.12 T: 20/26 H = 91% 3621 fm
110	SAT-3	"	"	"	10:05	11:48	22:45	-1:15	1.10 6' N "
111	VR3	"	V+R	20m	10:21	12:25	22:41	-0:18/1:02	" 3645 fm
112	" VR4	"	"	20m	10:32	"	22:39	-0:46/1:07	6' N 6' N "
113	" II4	"	II	25m	10:46	12:41	22:36	0:39/1:06	" 3630
114	Can 7-200	5m	"	~24m	"			1:07	"
115	"	"	"	"	11:14			0:20/1:07	"
116	"	20	VR	24m	11:17	12:02:28	14:24:10	0:51/1:07	" 13:30 3670 fm

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 11

Observers:

Date MST/UT:

Dec offset:

Balace:

Temp O/I:

552

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.)
117	Can 76-280	25	V2		11:19			0252 1.07	
118	"	45	V2	23000	11:27				} filter outtime
119	"	45	V?	"	11:26			1201 1.07	
120	"	45	R	19000	11:28			1202 1.07	
121	"	"	"		11:32			1207 1.09	
122	"	"	V	23000	11:35			1208 1.09	
123	"	"	"		11:36			1211 1.09	
124	"	45	I	23000	11:38			1212 1.10	for 2630
125	"	"	"		11:39			1213 1.10	"
126	BS 427P	0.01	II	29000		10:59:0	+86:09		for 2670 . ³⁰⁰⁰ did not get good data
127				3000	11:52			-1210 1.09	↓
128	"		V	27000					V2 out.
129	"	0.01	"	30000	11:59			-1205 1.09	
130	"	"	V	10000	12:07				for 2600 } at 4
131	"	"	V	"	12:08			-02:08 1.07	" } for

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #:

12

Observers:

Date MST/UT:

Dec offset:

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.)
132	R 5427P	0.01	R	1800	12:09			-0.25 1.02	} little quantitative
133	"	"	"	"	12:10			"	
134	"	"	I	1800				-0.48 1.02	370 at 4 pm.
135	"	"	"	"	12:15				"
136	"	0.01	R	1800	12:17			"	for 360 at 4 pm
137	"	"	"	"	12:18			"	
138	"	"	II	2100	12:25			1.01	3700 f
139	"	"	"		12:26			1.01	"
140	dark	1.0	"	13200	12:29				
141	"	"	"	"					
142	FR	0.02	II	2200					for 3670 f-65°
143	"	"	"	"					Vance 1.0
144	"	0.05	"	2500					Vance 85
145	"	"	"	"					"
146	"		Y+R	20000					for 3630

Telescope:

Frame prefix #: FR288J

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 13

Observers:

Date MST/UT:

Dec offset:

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.)
147	FF	0.10	VR					-32 -65	dark 13:20
148	shot	0.10	VR	21600					shot f = -80
149	"	"	"	"					make up by 25°
150	"	"	"	2140					f = -70
151	"	"	"	"					"
152	dark	10s	"	1970					"
153	"	"	"	2120	13				
154	"	"	"	2340	13:35				
155	dark	10s							

154