

Telescope: 61"
Day of Week: APRIL 11/12 UT

Frame prefix #: FR94C

Observers: Hicks, Grundy

Date MST/UT: Mon/Tues 1994

Iris:

Focus:

Tailpiece:

Balance:

Guidepoint: $(391.3, 413)$

Humidity: 65% Sheet #:

Temp O/I:

Guidepoint: $(391.3, 413)$

1

[illegible]

Telescope: 61"

Focus: 3484 decimal
3661 octal

Sheet #: 2

Frame prefix: FR94C

Date: April 12/13 UT
Tues/Wed. 1994

Focus: 3661 acts
Iris: 306
Tailpiece: } the
Balance: } usual

Humidity: 54%

Temp: 37 out 42
 of 34 in

Guidepoint: $(391.2, 406)$

Observers: GRUNDY, HICKS

[illegible]

Telescope: 61"

Frame prefix #: FR94C

Day of Week: Weds/Thurs

Iris:

Focus:

Tailpiece:

Balance:

Guidepoint: (392.2, 406)

Humdty:

Sheet #: 3

Observers: Hicks, Grundy

Date MST/UT: April 13/14 UT 1994

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start UT	RA set	Dec set	hour-angle exp-start	Sec Z	Comments: VME crashes, seeing, Moon, clouds, etc.
2562 6	McNaught-Russell	30	B/dichr	2100 pk 90 k phot	3:26	5:34:58.5	47:49:30	3:56	1.46	(Topped off dewars ~ 3:20 UT)
	Kushida	50	B/dichr	~4500 phot		(faint spud)				
7	"	100	"	~9300 phot	4:32	10:02:59	4:55:37	0:35	1.14	(thin cirrus around)
2562 8	Jupiter field 61	1 sec	CO/dichr		6:25	14:38:58	-14:02:08	-2:08	1.77	(Europa in field) phot 220 k
9	" 62	"	"		6:31	14:38:59	-14:02:08	-2:02	1.73	hopping +0.69 RA
10	" 63	"	"		6:37	14:38:60	-14:02:08	-1:56	1.70	
11	" 64	"	"		6:43	14:39:00	-14:02:07	-1:50	1.67	
12	" 65	"	"		6:48.5	14:39:01	-14:02:07	-1:44	1.65	
13	" 66	0.5 sec	"		6:54.5	14:39:01	-14:02:07	-1:38.5	1.62	← dec stuck 6:59 1/2
14	" 67	"	"		7:02	14:39:02	-14:02:07	-1:31	1.59	
15	" 68	0.15 sec	"		7:08	14:39:03	-14:02:06	-1:25	1.57	(Jupiter now fully in field) nice belts & zones
16	" 69	"	"		7:14	14:39:03	-14:02:06	-1:19	1.56	
17	" 70	"	"		~7:19 1/2				1.54	← Europa new hop = +1.39 RA
18	" 71	"	"		7:24 1/2	14:39:05	-14:02:05	-1:08 1/2	1.53	

Frame prefix: FR94C

Telescope: 61"

Sheet #: 4

Date: w/Th April 13/14 UT

Focus: 3667.etal

Iris: 306

Humidity:

Tailpiece:

Balance: 1140

Temp:

Guidepoint: (~392.2, 396)

Observers: Hicks, Grundy

1994

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	Jupiter field # 72	0.15	%Dichr		7:29	14:39:06	-14:02:05	1.52	-1:04 LHA
20	" 74	"	"		7:42	14:39:08	-14:02:01	1.49	
21	" 75	"	"		7:43	14:39:09	-14:02:00	1.49	(a satellite in slit)
22	" 76	"	"		7:50	14:39:10.5	-14:02:00	1.48	-:43 LHA (note Calisto & Io in field)
23	" 77	"	"		7:56	14:39:11	-14:01:59.5	1.47	-:37
24	" 78	"	"		8:02	14:39:12	-14:01:59	1.46	-:31 ← Ganymede enters
25	" 79	"	"		8:08	14:39:12.5	-14:01:58	1.46	-:25 ? NaD visible (col=
26	" 80	"	"		8:13½	14:39:13	-14:01:58	1.45	-:19 "
27	" 81	"	"		8:19½	14:39:14	-14:01:57	1.45	-:13½ Jupiter o
28	" 82	1.0sec	"		8:25½	14:39:14	-14:01:57	1.45	-:07½
				Guide history:	PL94C, GH				← topped dewar off
Pluto				60 %Dichr phot ~110k	9:18	15:53:52	-5:33:51	1.28	-:28 : ← e
29	"	30	"		9:50	15:54:03	-5:35:05	1.27	Transit
30	"	60	"		11:09	15:54:02	-5:35:02	1.36	thin clouds, intermittent
									<u>Not</u> photometric.
									(see PL94C.GH)

← other side of Jupiter

(a satellite in slit)

(note Calisto & Io in field)

I
 II
 III
 IV
 V
 VI
 VII
 VIII
 IX
 X
 XI
 XII

← Ganymede enters field

? NaD visible (col=169)?

Jupiter out of view now

← topped dewar off

↓ N
 E

94C

Telescope: 61"

Iris: 305

Frame prefix #: SP94C Day of Week: MON/TUE

Focus: 3561 Humdty: 64% Sheet #: 1

Observers: HICKS
GRUNDY Date MST/UT: APRIL 11/12Tailpiece:
Balance: Temp 0/I:33/38
Guidepoint: 391.3 413

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	McNIGHT RUSSELL	300	0.5	2.5K	3:05	5:25:19	43:18:57	+3:37	1.38	CLOCK IN VME OFF!
002	"	1200	0.5	9K	3:15	5:25:22	43:19:55	3:47	1.42	PRICE EMISSIONS CLOCK FIXED.
003	"	"	"	9K	3:37	5:25:28	43:22:50	(END) 4:30	1.57 1.66	end
X	WE FIND TEMPEL 1 INVOLVED W/ X WE DO COMPS									
004	BS 3750	0.5	0.5	15K	4:22	9:27:29	-06:02:37	+0:52	1.31	
005	"	0.5	0.5	18K	4:23				1.31	
006	"	0.5	0.5	17K	4:24				1.31	
007	"	0.5	0.5	17K	4:24				1.31	
008	(COMP) BS 2141	1.0	0.5	4K	4:29	6:05:47	+35:25:28	4:21	1.67	
009	"	2.0	0.5	4K	4:31			4:23	1.69	GUIDER CRASH
010	"	2.0	0.5	22K	4:34				1.71	
011	"	2.0	"	27K	4:35				1.72	
012	"	2.0	"	7, K	4:36				1.73	15 OBJECT DRIFTING
013	"	2.0	"	12K					1.74	
014	BS 4027	2.0	"	30K	4:46	10:16:10	-28:42:57	+0:12	1.01	

Telescope: 61"

Iris:

Frame prefix #: SP94C

Day of Week: MON/TUE

Focus:

Humdty:

Sheet #: 2

Observers: GRUNDY
HICKS

Date MST/UT: APRIL 11/12

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.)
015	COMD BS 4427	2.0	0.5	36K				0:27	1.01
016	"	2.0	0.5	27K					1.01
017	"	2.0	0.5						1.01
018	STD 4534	0.05	1.0	28K	4:56	11:48:51	14:36:24	-0:54	1.00
019	"	"	"	21K	4:57			-0:54	1.07
020	"	"	"	29K	4:58			-0:53	1.07
021	"	"	"	35K	4:59			-0:52	1.07
022	TEMPEL 1	1200	0.5	8K	5:07	13:18:64	+12:47:09	-2:13	1.24
023	"	"	"	12K	5:28	13:08:05	+12:47:09	-1:52	1.18 BETTER guiding
024	"	"	"	40K	5:51	13:18:04	+12:47:09	-1:29	1.14
025	"	"	"	8.5K	6:14	13:18:03	+12:47:09	-1:06	1.10 JUMP IN EAST WHILE GUIDING
026	"	"	"	10K	6:36	13:17:57	+12:47:09	-0:43	1.08
027	"	"	"	10K	7:00	13:17:56	+12:47:08	-0:19	1.06
X	WE SET THE GP FOR CO FILTER				GP =	393.2	413		

Telescope: 61

Focus: 3484

Sheet #: 3

Frame prefix: SP94C

Date: April 12/13

Iris: 306

Humidity: 54 6/6

Observers: GRUNDY, HICKS

Tailpiece:

Temp: 37/42

Guidepoint: 391,2406

Balance:

[illegible]

Telescope: 61"

Frame prefix #: SP94C Day of Week: April 13/14 RA offset:

Focus: 3824 Humdty: 50% Sheet #: 4

Observers: Hicks
GRUNDT

Date MST/UT: Wed/Thu Dec offset:

Tailpiece:
Balance: Temp O/I: 48/44
6P 392.2 406

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.)
041	McN-R	1200	0.5	7K	3:27	5:34:58	47:49:34	+3:57	1.46 n2me n10K in HEADER
041	"	"	"	5.5K	3:48	5:35:02	47:51:28	4:19	1.57 TO MISS STAR DARK SLIDE IN 4:03.5
X NOT ON AUTO SAVE DID NOT SAVE FIRST EXP									
042	Kushidz	1200	0.5	400	4:17	10:02:58	4:55:36	0:21	1.13
043	"	"	0.5	400	4:30			0:41	1.14
044	"	1200	0.5	460	5:01			1:03	1.17 HAZE BUT NO CLOUDS
045	"	"	"	300	5:22			1:24	1.20-1.2
046	B5 5168	1.0	0.5	4.5K	5:45	16:00:51	+33:14:25	-4:10	1.62
047	"	3.0	0.5	65K	5:47			-4:08	1.60
048	"	1.0	0.5	24K	5:48			-4:07	1.60
049	"	1.0	0.5	24K					
050	"	1.0	0.5	25K					1.58
051	"	1.0	0.5						1.57
052	"	1.0	0.5		5:54				1.56
053	"	1.0	0.5	26K					

Telescope: 61"

Frame prefix #: SP94C

Day of Week: April 13/11

RA offset:

Focus:

Humdty:

Sheet #: 5

Observers: GRUNDY
HICK

Date MST/UT: Wed/Thu

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.)
054	"	1.0	0.5	25K					1.53
055	"	1.0		26K					
056	"	1.0	0.5						1.52
057	4277	0.5	0.5	17K		10:59:11	+40:29:41		1.04
058	"	0.75	0.5	31K					1.04
059	"	0.75	0.5	30K	6:06				1.04
060	"	0.75	0.5						1.65
061	10 TORUS	300.0	0.25	5.3K	6:22	14:38:58	-14:02:08	-2:10	1.78 ^{6R} (HOPS + 0.69 RA)
062	"	300	0.25	6.1K	6:28	14:38:58	-14:02:08	-2:04	1.75
063	"	300	0.25	6.3K	6:34	14:38:59.5	-14:02:08	-1:58	1.71
064	"	"	"	6.9K	6:40	14:39:00.1	-14:02:08	-1:53	1.68
065	"	300	0.25	7.4K	6:46	14:39:00.8	-14:02:08	-1:46	1.66
066	"	300	0.25	8.3K	6:52	14:39:01.6	-14:02:07	-1:41	1.63
067	"	300	0.25	10.0K	6:59	14:39:02.2	-14:02:06	-1:33	1.60 DEC JAMS
068	"	300	0.25	13.4K	7:05	14:39:02.9	-14:02:07	-1:27	1.58

Telescope: 61"

Frame prefix #: 6P94C

Day of Week: April 13/14

RA offset:

Focus:

Humdty:

Sheet #: 6

Observers: HICKS
GRUNDY

Date MST/UT: Wed/Thu

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.)
069	10-TORUS	300	0.25	42 K	7:11	14:39:03.1	-14:02:05.1	-1:21	1.56
070	"	5	0.25	26 K		14:39:03.8	-14:02:05	-1:11	1.53 WE CENTER ON EUROPA
071	"	150	"	30 K	7:23	14:39:05.0	-14:02:05	-1:09	1.53
072	"	30	"	15 K	7:29	14:39:06.2	-14:02:05	-1:04	1.52
073	SKY	300	"		7:34	14:43:16	-14:02:06	-1:03	1.51
074	10-TORUS	30	"	13 K	7:43	14:39:08.1	-14:02:01	-0:51	1.49
075	"	5	"	3 K	7:45	14:39:09.2	-14:02:01	-0:48	1.49 WE CENTER ON SATURN
076	"	300	"	30 K	7:48	14:39:10.6	-14:02:00	-0:45	1.48
077	"	300	"	18 K	7:54	14:39:11.2	-14:02:00	-0:39	1.47
078	"	300	"	11 K	7:59	14:39:11.9	-14:01:59	-0:33	1.47
079	"	300	"	6.4 K	8:05	14:39:12.4	-14:01:59	-0:28	1.46
080	"	300	"	4.7 K	8:11	14:39:13.1	-14:01:58	-0:21	1.45 SODIUM 8169?
081	"	300	"	3.8 K	8:17	14:39:13.7	-14:01:58	-0:16	1.45
082	"	300	"	3.4 K	8:23	14:39:14.9	-14:01:57	-0:10	1.45
083	BS 5911	1	0.5	8 K	8:49	15:53:00	13:13:11	-1:57	1.09

Frame prefix:

SP94C

Telescope: 61

Date: APRIL 14/15

Focus:

Sheet #: 7

Iris:

Tailpiece:

Humidity:

Balance:

Temp:

Guidepoint: (392.2, 396)

Observers: GRUNDY, HICKS

WED / TH

Exp #	Object	Exp time	Filter (slit)	Counts: Peak/Phot	Start UT time	RA	Dec	SecZ	Comments: seeing, moon, VME crash, clouds, etc.
84	BS 5911	2	0.5	26 k	8:51			1.09	-1.56
85	"	"	"	21 k				1.08	-1.55
86	"	"	"	27 k	8:53			1.08	-1.54 ← Jumped E.
87	"	"	"	27 k	8:57	15:52:56	13:13:08	1.08	-1.49
88	BS 6060	1.0	"	25 k	9:03	16:15:22	-8:21:11	1.38	-1.06
89	"	"	"	25 k	9:04			1.38	
90	"	"	"	23 k	9:04			1.38	
91	"	"	"	20 k	9:05			1.37	
92	"	"	"	21 k	9:06			1.37	
93	"	"	"	18 k	9:07			1.37	
94	"	"	"	22 k	9:07			1.37	
95	BS 5968	1.0	"	25 k	9:11	16:00:51	33:19:29	1.01	-0.42
96	"	"	"	24 k	9:12			1.01	
97	"	"	"	24 k	9:13			1.01	
98	"	"	"	27 k	9:14			1.01	
99	"	"	"	26 k	9:14			1.01	
100	"	"	"	25 k	9:15			1.01	
101	"	"	"	24 k	9:16			1.01	

Frame prefix: SP94C

Telescope: 61"

Sheet #: 8

Date: APRIL 14/15

Focus:

Iris:

Tailpiece:

Humidity:

Observers: HICKS, GRUNDY WED 1TH

Balance: 1140

Temp:

Guidepoint: 392.2 396

Exp #	Object	Exp time	Filter (slit)	Counts: Peak/Phot	Start UT time	RA	Dec	SecZ	Comments: seeing, moon, VME crash, clouds, etc.
102	PLUTO	600	.5	6.6K	9:24	15:54:03	-5:35:11	1.27	4395
103	"	"	"	7.3K	9:35			1.27	
104	"	"	"	6.5K	9:45			1.27	
105	"	"	"	7.5	9:56			1.27	THIN, LOW LAYER OF CLOUDS OVER HEAD
106	"	"	"	7.2	10:07			1.27	
107	"	600	.5	7.5	10:17			1.28	CLOUD LAYER PRESENT BUT NOT AS THICK
108	"	"	"	7.2	10:28			1.29	
109	"	"	"	6.6	10:38			1.30	
110	"	"	"	5.8	10:49			1.32	
111	"	"	"	6.4	11:00			1.34	
112	BS 5968	1.0	0.5	20K	11:13	16:00:51	+33:19:30	1.04	
113	"	"	"	20K	11:14			1.04	
114	"	"	"	20K	11:15			1.05	
115	"	"	"	20K	11:16			1.05	
116	"	"	"	20K	11:17			1.05	
117	"	"	"	23K	11:17			1.05	
118	"	"	"	22K	11:18			1.05	
119	"	"	"		11:19			1.05	

Frame prefix: SP94C

Telescope:

Date: April 13/14

Focus: 3506

Iris:

Tailpiece:

Balance: 1140

Humidity:

Temp:

Sheet #:

Observers: GRUNDY, HICKS

WED / THUR

Balance: 1140

Temp:

Guidepoint

$$\text{nt}(392.2, 396)$$
[illegible]