

Frame prefix:

SP95C

Telescope: 61"

Focus: 3760

Sheet #: 4

Date: SUN MAY 28/22

Iris: 300

Humidity: 52%

Tailpiece:

Balance:

Temp: 48.53

Observers: HICKS GRUNDY (TIM/CARL - STEVE MARG)

Guidepoint: (394, 413)

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	1991 JX	600	0.5	33K amb 112 SKY	4:33	14:52:12	05:08:31	1.18	EVENING STARTED CLOUDY, NOW CLEAR
X	E = 385, WE MOVE GUIDE POINT					394, 430			WT CLOCK ACC TO 150.
002	"	1200	0.5	6.4 PK 1.5 SKY	4:51	14:52:17	05:09:29	1.16	JUMP IN EAST, -1.5 MINUTES
X	E = 375, WE MOVE					IN WRONG DIRECTION, WE DECIDE TO PRESS ON			
003	"	1200	0.5	0.0K 1.4 SKY	5:15	14:52:11	05:11:16	1.13	
X					GP Now 394, 400				
004	BS 5968	1.0	0.5	25K	5:56	16:01:02	33:18:21	1.03	
005	"	"	"	33K	5:58			1.03	
006	"	"	"	33K		16:01:02		1.03	
007	5384	2.0	0.5	23K	6:07	14:23:14	01:14:25	1.19	
008	"	2.0	0.5	20K		14:23:14	01:14:25	1.19	
009	"	2.0	0.5		6:09	14:23:14	01:14:25	1.19	
X	DISPLAY HAS BEEN SET TO T2000, MOVE TO T6D								
010	1991 JX	1200	0.5	12.4K 1.3K	6:24	14:52:22	5:17:09	1.13	VME CRASH GUIDER 2X IN ROW 2394
011	"	"	"	12.3K 1.3K	6:46			1.16	HMM. 56% TEMP 44/48
012	"	"	"	10.1K 1.3K	7:07	14:52:33	05:20:02	1.19	
013	BS 5968	1.0	0.5	30K	7:43	16:00:47	33:19:08	1.01	
014	"	"	"	23K	7:44			1.01	
015	"	"	"	30K				1.01	

Frame prefix: SPASC

Telescope: 61"
Date: SUN MAY 28/29

Sheet #: 2

Observers: HICKS GRUNDY

Focus:
Iris:
Tailpiece:
Balance:
Humidity:
Temp:

Guidepoint: 394,0 460,0

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.
016	56 5384	2	0.5	23K	7:44	14:22:58	1:15:33	1.46	
017	"	"	"	25K	7:50			1.46	
018	"	"	"	29K	7:51			1.47	
019	1991 JX	1200	0.5	2K 1.4K	7:59	14:52:46	5:23:20	1.31	
020	1991 JX	1200	0.5	10.4 1.3K	8:21	14:52:51	5:24:58	1.40	
021	1991 JX	1200	0.5	12.4K 1.4K	8:43	14:52:57	5:26:26	1.50	-1.63
022	BS 5968	1	0.5	34K	9:17	16:00:47	33:18:54	1.14	
023	"	"	"	25K	9:18			1.15	
024	"	"	"	30K	9:19			1.15	
025	BS 5384	2	0.5	20K	9:23	14:22:58	+01:15:42	2.34	
026	"	"	"	18K				2.42	
027-28	"	"	"	8K, 20K				2.42	, 2.44
029	CSTD BS 6629	0.25	1.0	28K	9:34	17:47:34	02:42:17	1.18	
030	"	"	"	23K	9:35			1.18	VERY HIGH READNOISE ~50 COUNTS
031, 32	"	"	"	27, 23	9:35, 9:36			1.18	1.18
033	F/CLARK	600	0.5	2.4K 1.3K	10:01	20:04:51	-30:30:35	2.31	SLIT WRONG IN HEADER
034	"	1200	"	5.0K 1.5K	10:13			2.26	
035	"	1200	"	5.2K 1.5K	10:34			2.21	-2.19 END

Frame prefix: SP95C

Telescope: 61"

Sheet #: 3

Date: 05/30/31

Focus: 3755

Iris: 300

Humidity: 58%

Tailpiece:

Balance:

Temp: 47/50

Guidepoint: 394,400

Observers: HICKS, GRUNDY

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.
036	B55384	2.0	0.5	134	3:54	14:23:01	01:15:47	1.25	SEEING BAD
037	"	"	"	134	3:55			1.25	
038	"	"	"					1.24	
039	1991 JX	1200	0.5	3.1 1.4	4:07	14:59:17	06:49:10	1.23	
040	"	"	0.5	4.64 1.44	4:29	14:59:24	06:50:51	1.18	TINY FAINT STUB ZOOMS PAST. MW AT 4:28
041	"	"	"	4.6 1.44	4:51	14:59:29	06:52:33	1.15	VME CRASH JUMP IN EAST W/ BRIGHTER IN SLIT
042	B55968	1.0	0.5	164	5:43	16:00:54	23:19:23	1.04	SEEING BETTER
043	"	"	"	164	5:44			1.04	
044	"	"	"		5:44			1.03	
045	B55384	2.0	0.5	144	5:50	14:23:03	1:15:38	1.18	
046	"	"	"		5:51			1.18	
047	"	"	"					1.12	
048	1991 JX	1200	0.5	7.24 1.44	6:06	14:59:47	6:58:07	1.11	B
X	BLACK RACK COMPLETELY CRASHED DURING 048. THIS								
X	EXPOSURE MAY BE USELESS, OBJECT NOT IN SLIT WHEN RETURN								
049	1991 JX	1200	0.5	7.6/1.4	6:26	14:59:54	6:59:47	1.12	TRACKING STABLE
050	1991 JX	1200	0.5	8.1/1.4	6:47	14:59:59	7:01:23	1.13	

Frame prefix: SP95C

Telescope: 61"

Sheet #: 4

Date: MAY 30/31

Focus: 3750

Humidity: 55%

Observers: HICKS, GRUNDY

MONDAY

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint: 394, 406

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	BS 5384	2.0	0.5		7:30	14:23:00	1:15:55	1.39	focus looked fine
052	"	"	"	144	7:31			1.40	
053	"	"	"					1.41	
X	YES, FOCUS THROUGH SPEC EYEPiece GREAT, BUT PROFILES WIDE!								
054	BS 5968	1.0	0.5	174	7:37	16:00:49	33:14:32	1.01	
055	"	"	"	164	7:38			1.01	
056	"	"	"		7:39			1.01	
057	1991 JX	1200	0.5	63 1.9	7:48	15:00:17	7:05:56	1.24	
058	"	"	"	0.8 1.9	8:08			1.37	at 8:25
059	"	"	"	8.1 2.0	8:29	15:00:30	7:09:05	1.39	1.59 END?
060	BS 5968	1.0	0.5	184	9:04	16:00:48	33:14:14	1.12	
061	"	1.0	0.5	174	9:05			1.13	
062	"	"	"	184	9:06			1.13	
063	BS 5384	2.0	0.5	154	9:09	14:23:06	1:16:06	2.19	
064	"	"	"	144	9:10			2.20	
065	"	"	"		9:11			2.22	
X	DISCOVER THAT I LEFT SLIT AT 1MM SINCE LAST								
X	FOCUS TEST, FROM 051-065								



1 MM
 1
 SLIT
 1
 1

Frame prefix: SP95C

Telescope: 6"

Sheet #: 6

Date: MAY 30/31

Focus: 3760

Iris:

Humidity: 50

Tailpiece:

Balance:

Temp: 49/52

Guidepoint:

Observers: GRUNDY, HICKS TUESDAY

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.
074	BS 5968	1.0	0.5	35K	4:11	16:00:55	33:19:16	1.20	FOCUS PROBLEM
075	"	"	"	304	4:12			1.19	NOT PRESENT
076	"	"	"		4:13			1.19	
077	"	"	"	324	4:14			1.19	
078	"	"	"		4:15			1.19	
079	"	"	"					1.19	May be thin
080	5511	0.1	1.0	9K	4:21	14:46:04	1:54:54	1.22	clouds about
081	"	0.3	"	224	4:22			1.22	(← don't trust)
082	"	"	"	244	4:23			1.22	
083	"	"	"					1.22	
084	PLUTO	900	0.5	1.3 PK 1.4 sky	4:40	15:59:04	-6:18:04	1.53	LHA-2:07 4395
085	"	"	"		4:57			1.46	-1:52
86	BS 6060	1.0	0.5		5:17	16:15:29	-8:21:09	1.50	
87	"	"	"	29K	5:16			1.50	
88	"	"	"		5:17			1.50	-1:47 (LHA)
89	"	"	"					1.49	
90	"	"	"					1.49	
91	"	"	"					1.49	

Frame prefix: SP95C

Telescope: 61"

Sheet #: 7

Date: MAY 30/31

Focus:

Humidity: 50

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: GRUNDY HICKS TUESDAY

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.
92	PLUTO	900	0.5	11K 1.3K	5:23	15:59:03	-6:18:01	1.38	-1:25 LHA
93	"	"	"	13K 1.3K	5:41			1.34	
94	"	"	"	11K 1.3K	6:00	15:58:59	-6:18:05	1.31	
95	BS 6060	110	"	21K	6:20	16:15:23	-8:21:11	1.35	frame lost?
96	"	"	"		6:21			1.35	
97	"	"	"	30K	6:21			1.34	
98	"	"	"						
99	"	"	"		6:23			1.34	
100	"	"	"	21K				1.34	
101	PE	900	"	10K	6:29	15:58:58	-06:18:00	1.28	-0:19 (LHA) DEC GUIDE PROBLEM
102	PE	900	0.5	11K 1.4K	6:44			1.28	
103	PE	900	0.5	11K 1.4K	7:00			1.28	
104	6060	1.0	0.5	24K	7:17	16:15:22	-8:21:13	1.32	
105	"	"	"	16K	7:18			1.32	
106	"	"	"		7:19			1.32	
107	"	"	"		7:20			1.32	
108	"	"	"					1.32	
109	"	"	"					1.32	
109	"	"	"		7:21			1.32	

Frame prefix: SP95C

Telescope: 61"

Sheet #: 8

Observers: GRUNDY, H

Date: MAY 30/31

Focus:

Humidity:

TUESDAY

Iris:

Temp:

Tailpiece:

Guidepoint:

Balance:

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.
110	BS 5968	1.0	0.5	23k		16:00:49	33:19:29	1.01	
111	"	1.0	0.5		7:20			1.01	
112	"	"	"		7:29			1.01	
113	"	"	"					1.01	
114	"	"	"		7:30			1.01	
115	"	"	"	27k				1.01	+ 0:48 LHA
116	Pluto (E)	900	"	12k	7:36	15:58:57	-6:18:13	1.31	TOPPED OFF CAMS
117	"	"	"	9.8k	7:52			1.33	
118	"	"	"	11.2	8:08			1.37	
119	"	"	"		8:24			1.41	
120	BS 6060	1.0	0.5		8:45	16:15:22	-8:21:08	1.47	
121	"	"	"		8:46			1.47	
122	"	"	"		8:47			1.47	
123	"	"	"		8:47			1.48	
124	"	"	"		8:48			1.48	
125	"	"	"		8:49			1.48	
126	BS 5968	1.0	0.5	23k	8:52	16:00:49	33:19:15	1.11	
127	"	"	"		8:53			1.11	

Frame prefix: SP 95C

Telescope:

Sheet #: 9

Date:

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: GRUNDY, HICKS

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.
128	BS 5968	1.0	0.5		8:54			1.11	
129	"	"	"		8:54			1.11	
130	"	"	"		8:55			1.11	
131	"	"	"	24K	8:56			1.11	
132	BS 6629	0.25	1.0	30K	9:03	17:47:31	+2:42:31	1.16	
133	"	"	"		9:04			1.16	
134	"	"	"		9:05			1.16	
135	"	"	"		9:06			1.16	
136	1991 JX	1200	0.5	92K 1.4K	9:26	15:09:43	9:11:20	1.66	Good Guiding
137	"	"	"	7.1K	9:46	15:09:51	9:13:10	1.85	Not Good
138	"	"	"	6.8K	10:07	15:09:58	9:14:56	2.09	Good Guiding
139	6060	1.0	1.0	17K	10:42	16:15:21	-8:21:04	2.49	
140	"	"	"		10:43			2.45	
141	"	"	"		10:43			2.46	
142	"	"	"		10:44			2.40	
143	"	"	"					2.49	
144, 145	"	"	"					2.50, 2.52	

Frame prefix: FR95C

Telescope: 61"

Focus: 3760 dec.

Sheet #: 1

Date: UT 5/29/95

Iris:

Humidity: 52%

Wind: 10 mph W

Observers: Hicks, Grundy

Sun/Mon

Tailpiece:

Temp: 48/53 °F

Gusty

Guidepoint: (394, 413)

Balance: back heavy

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α J2000	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
1	91 JX	20	Open	281000 Phot 29k peak	4:23	14:52:10	5:07:54	1.20	LHA -1:24 Times in headers good to ± 2 sec
↓	"	30	B/dich	24k phot		14:52:11	5:08:03	1.19	autosave on
↓	"	"	"	Photometry					$\dot{\alpha} = .0635$ $\dot{\delta} = .0663$
↓	"	"	"	increasing					move guidepoint to
↓	"	"	"		4:48	14:52:16	5:09:19	1.16	394, 430 shutter failed to open a few times.
↓	"	"	"		5:03	14:52:17	5:10:32	1.14	Jump in East
41	"	"	"		5:33	14:52:24	5:12:24	1.13	-1:17
↓	"	"	"	40k					VME CRASH
45	"	"	"	42k					
46	P561-D	60	B/dich	pk=12.5k Ph=283k	5:44	14:53:44	4:27:24	1.13	-1:07 Lightcurve std.
47	"	"	"	pk=13k Ph=291k	5:47			1.13	-1:04
48	"	"	"	pk=12.4k Ph=280k	5:49	switch to α, δ of date		1.13	-1:02 (move guidepoint to 394, 400)
49	1991 JX	30	"	Ph=46k	6:19	14:52:21	5:16:54	1.13	+1:29
↓	"	"	"	flux dropping					← 2 VME CRASHES
58	"	"	"		6:40	14:52:15	5:18:15	1.15	+1:50
↓	"	"	"	Ph \approx 33k	7:15	14:52:35	5:20:31	1.20	+1:24
80	"	"	"						
89	"	"	"						

Frame prefix: FR95C

Telescope: 61"

Sheet #: 4

Date: MON/TUES
UT 5/30/95

Focus:

Humidity:

wind 3MPH S

Observers: HICKS, GRUNDY

Iris:

Tailpiece:

Balance: Back heavy

Temp:

Guidepoint: (394, 398)

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.
191	PG1323-086D	20	B/dichr	Pk = 17k Ph = 283k	5:32	13:25:50	-8:49:04	1.40	+1:12
192	"	"	"	Pk = 16k Ph = 278k	5:33:05	← exact UT time ($\pm .5$ sec)		1.41	
193	"	"	"	Pk = 16k Ph = 279k	5:34:30			1.41	
194	1991 JX	30	B/dichr	Pk = Ph =					$\alpha = .0747$ $\delta = .0752$
↓				Ph = 56k	6:02	14:59:47	6:58:05	1.11	+1:10
↓				60k	6:10	} lightcurve max			← VME <u>REALLY</u> CRASHED
↓				59k	6:27				
↓				Ph = 58k	6:31	14:59:55	7:00:10	1.12	+1:38
216				Ph = 54k	6:45	14:59:59	7:01:18	1.13	+1:52
				Ph = 50k	7:00	15:00:03	7:02:20	1.15	+1:06
231				47k	7:07				
232	P561-D	60		Pk = 25k Ph = 325k	7:12	14:53:31	4:26:08	1.21	+1:25
233	↓	"		Ph = 327k	7:14			1.21	
234	↓	"		Ph = 322k	7:16			1.22	
235	PG1323	20		Pk = 19k Ph = 249k	7:20:12	13:25:49	-8:49:03	1.98	3:01
236	↓	"		Ph = 244k	7:22			1.99	
237	↓	"		Ph = 248k	7:23			2.00	

crop or discard #202

Telescope: 61"

Iris: Wind 2mph West

Frame prefix #: FR95C Day of Week: Tues/Weds UT 5/31/95

Focus: Humdty: 50% Sheet #: 6

Observers: Hicks, Grundy Date MST/UT: VME accurate to ± 0.5 sec

Tailpiece: Balance: Temp O/I: 49/53 °F

Guidepoint:

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.
285	Pluto field	30	B/dichr		4:06	15:58:58	-6:18:23	-2:40	1.73	
	Pluto	20	B/dichr	37 k ph	5:00	15:59:04	-6:18:12	-1:43	1.43	
286	BS 6060	.15	"	pk=32k ph=676k	8:42	16:15:22	-8:21:15	+1:37	1.46	} Wind 10 W highly variable photometry → shutter bad? (nice seeing)
287	"		"	ph=						
288	"		"	ph=	8:44				1.47	
289	"		"	pk= ph=	8:45				1.47	
290	P561-D	60s	"	pk=16k ph=268k	9:13	14:53:30	4:26:20	+3:30	1.81	
291	↓	↓	"	pk=16k ph=266	9:15				1.83	
292	↓	↓	"	pk=14k ph=250k	9:18				1.85	
293	1991 JX	30s	"	pk= ph=48k?	9:23	15:09:41	9:10:55	3:24	1.64	
↓	↓	↓		45k	9:35					$\alpha = .0942 \quad \delta = .0863$
↓	↓	↓		flux drops ? 35k	9:43				1.81	$\alpha = .0948 \quad \delta = .0865$
335	P561-D	60s			10:33	14:53:30	4:26:28	4:51	3.43	
336	"	"			10:35				3.52	
337	"	"			10:37				3.59	

