

Telescope: 61"

Frame prefix #: SP8910

Day of Week: Friday

RA offset:

Focus:

Humdty:

Sheet #: 1

Observers: Grundy

Date MST/UT: 23/24

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.)
001	BS101	600	Dichroic						Dichroic ^{2x}
2	"	"	1mm		1:40				1.14 "
3	"	"	"		1:51				1.15 "
4	BS7406	3sec	"		2:45	20:16:23	16:43:3.0		1.06 (Std 2 stars clear)
5	"	"	"						" (Fog)
6	"	"	"						" (Wide spread in of stars)
7	"	"	"						"
8	"	"	"		2:49				"
9	"	"	"			20:16:30.2	16:43:2.1		1.06
10	BS8634	0.2	"		3:42	22:40:59.4	10:45:57.2		1.09 v spec star
11	"	"	"	8500	3:45				"
12	"	"	"						"
13	"	"	"		3:47				"
14	"	"	"						"
15	"	"	"		3:49	22:40:59.36	10:45:56.2		1.09

Telescope: 014

Frame prefix #: SP89D

Day of Week: Saturday

RA offset: -.065

Focus:

Humdty:

Sheet #: 2

Observers: Grady, Fink, R. S. S.

Date MST/UT: June 24/25

Dec offset: -.003

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.)
16	BS 5183	1s	1m	8500		13:46:27	+623 13	11:26 1.19	comp star
17	"	1s	1m	9400	4:23	"	"	1:27 1.19	
18	"	1s	1m	9100		"	"	1:32 1.20	
19	"	1s	0.5	8700		"	"	1:32 1.20	
20	"	"	"	8800		"	"	1:33 1.20	
21	"	"	"	8600	4:30:08	"	"	1:34 1.21	
22	Penn-windstar	300	4		5:08	12 17 10.4	22 08 22	3:42 1.55/m	judg. Det
23	"	600	"	120/1000	5:16	"	"	3:49 1.61	Row 60s gap Acn 600m E=381 60s R. obliq 30m
24	"	"	"	1/1				4:01 1.70	entire Roshia intalenna
25	"	"	Tom	2200 net 130/1500	5:41	16.5	07 49.3	4:14 1.82	m & off
26	"	"	"		5:52	16.0	32	4:27 1.96	
27	BS-5183	1sec	"					1.67	Comp
28	"	1.5						1.68	
29	"	"						1.70	
30	"	"						1.71	

48. 396-386

50 361-271

391-401

SPECTRA

Telescope: 61"

Frame prefix #: SP89D Day of Week: SATURDAY RA offset:

Focus: 3931 Humdty: 40 Sheet #: 3

Observers: Arnold, Rishi Date MST/UT: 24/25 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.)
31	BS "	1.5	1mm	9300					
32	"	"	"						1.75
33	"	"	"	"	"	"	"	"	1.89 not saved
33	"	"	"						1.91
34	"	"	"						1.92
35	"	"	"						1.93
36	VB-10	600	"		7:22	19:16:31	+5:7:10	1:08E	1.17(?)
37	VB-10	600	"		7:36			0:49E	1.15
38	"	"	0.25		8:07			0:18E	1.13
39	"	"	"		8:19			0: E	1.13
40	"	"	"		8:22			0:07W	1.13
41	"	"	"		8:43			0:18W	1.13
42	BS7569		"			19:51:37	11:34:55		1.07 - 1.08 <i>interesting mouse!</i>
43	"		"						
44			"						

Camp

SHOCTRA

Telescope: 61"
 Day of Week: SUNDAY
 Date MST/UT: 25/26

RA offset:
 Dec offset:

Focus:
 Tailpiece:
 Balance:

Humdty: Sheet #: 95
 Temp O/I:

Frame prefix #:

Observers:

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.)
57	Pms IV	600s	Richu		24:10	12 18 45	+21 31 06	3:25	1.46 - late 10s became dark disk was in.
58	"	1200s	"		5:02	47	38 49	3:38	1.53
59	"	"	"	1000/1200	5:24	49	38 29	4:10	1.69
60	"	600s	"	1000/1200	5:47	52	38 00	4:22	1.42 2 nd attempt to remove bright cast
61	"	"	"		5:59			4:35	2.07
62	BS 5534	1.0	0.5mm	5200	8:12	19:49:54	23:56:33		1.82 COM STAR dG2
63	"	"	"		8:18	19:49:51	23:56:34	4:23	1.87
64	"	"	"	8700	8:22			4:27	1.91
65	"	"	"	7000	8:30	19:49:55	23:56:40	4:35	2.01
66	"	"	"		8:31			4:36	2.02
67	BS 7637	"	"	9700	8:44	19:59:17	-9:59:50	-0:20	1.36 COM* GOV
68	"	"	"	8500	8:45	"	"	-0:19	1.36
69	"	"	"	8300	8:46	"	"	-0:18	1.36
70	BS 7235	.05	1mm	4700	8:58	19:04:58	13:49:56	+0:48	1.0 7 STANDARD*
71	"	.1	"	10600	9:00	19:58.4	13:55.7	0:50	1.08

SPECTRA

Telescope: 6"

Frame prefix #: 5P89D

Day of Week: SUNDAY

RA offset:

Focus: 3934 Humdty: 39 Sheet #: 6

Observers:

Date MST/UT: 25/26

Dec offset:

Tailpiece:
Balance: Temp O/I: 57/55

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.)
72	BS 7235	.1	1mm	10400	9:00			0:50 1.08	Standard *
73	"	"	"	8500	9:01	19:04:58	13:49:56	0:51 1.08	
74	"	"	"	8900	9:03	"	13:49:55	0:53 1.08	
75	ZHS 2424	600	1mm		4:50	14:28:18	33:13:25	+1:10 1.02	
76	"	"	"	1900/1900	4:42	"	"	+1:12 1.09	
77	"	1800	"	4000/1800	4:52	"	"	1:24 1.05	very nice!
78	"	"	"	4000/1800	5:26	18.3	25.2	1:16 1.10	very nice!
79	"	"	"	"	5:58	18.2	21.5	2:28 1.17	very nice!
80	BS 7235	0.1	"	10000	~6:00	19:05:02	+13:10:39	-1:24 1.12	Ors ^{glad to do} by the ^{hand} parking
81	"	"	"	12000	6:45	"	"	-1:20 1.11	
82	"	0.08	"	9600	6:47	"	"	-1:18 1.11	
83	"	"	"	7700	6:10	"	"	-1:16 1.11	
84	"	"	"	9900	6:52	"	"	-1:14 1.11	

CRP
111
111
11.1
11.1
111

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.)
85	Tutu	300	0.25	2500/-	7:18	18:48:11	-22:12:30	-0:19	1.73 no in slit. hot not on eye hole
86	"	"	"	2400		"	"	-0:12	1.72 made into eye hole
87	"	"	"	2200	7:50	"	"	+0:01	" find by cap. eye of hole
88	"	600	"	5000	7:16	"	"	+0:07	"
89	"	"	"	4000	8:08	"	"	+0:19	1.73
90	"	"	"	3400	8:20	"	"	0:31	1.74
91	"	"	"	4600	8:33	"	"	0:44	1.77 some clouds about
92	"	"	"	4200	8:44	"	"	0:55	1.79
93	BS 7994	1.0	"	5600	9:04	20:52:33	-11:37:22	-0:50	1.43
94	"	2.0	"	10800	9:05	"	"	-0:48	"
95	"	2.0	"	10200	9:07	"	"	-0:47	"
96	"	2.0	"	8600	9:08	"	"	-0:46	1.42
97	"	1.75	"	10800	9:13	"	"	-0:40	" North = "up" in (lower row) display
98	BS 7291	2.0	"	9100	9:25	19:14:57	-24:12:33	+1:09	1.94
99	"	"	"	9700	9:26	"	"	+1:10	"

set file
 Samp
BS 7998

Telescope: 61"

Blue Opt Red Opt

Frame prefix #: FR89D

Day of Week: Thursday

RA offset:

Focus: 3940

Humidity: 33 Sheet #: 1

Observers: Grandy, Fink

Date MST/UT: Jun 22/23

Dec offset:

Tailpiece: 39.3

Balance: 200

Temp O/I:

ST due
60/02

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	Gunn	1 min 345	open		5:26	14 35 33	-12 39 47	tl: 20/1.52	Bis. d -0.005 -0.002
002	Gunn	1 min	open	10000	5:57				1.73
003	DND	60s			6:20				
004	"	60s							
X 005	VXP	20s	R		7:22	19:16:30.4	5:09:11.3	-1:13	1.18 $\frac{3}{4}$ Moon up
X 006	"	120s	B		7:25	"	"	-1:08	1.17
X 007	"	120s	R		7:33	"	"	-0:57	1.16
									Good paper was not on latest version of Argo

X = written to tape

Telescope: 61"

Ins 307

Frame prefix #: FR89D Day of Week: FRIDAY

RA offset:

Focus: 3930 Humdty: 33 Sheet #: 2

Observers: F, D, G

Date MST/UT: 23/24

Dec offset:

Tailpiece: 50
Balance: 220 Temp O/I: 56/60

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.)
X 8	CLARK	60	None	/12000	3:41			~ 43:40	1.73
X 9	"	60	"						
X 10	"	60	green	/	4:06				
X 11	"	60	Blue						
X 12	"	120	"		4:44				
13	Pons W.		open						Bad radio interference
14	?								
15	Problems								
16									
17	Brasen M	60	Open		10:43	23:22:12.72	0:4:30.6		1.33 (FA is 512x512)
18	"	160	Open		10:53	23:22:12.15	0:4:28.8		1.31
19	BS 0534	10	open		11:22	23:22:12.40	0:4:36.2		1.24
20	"	20	"		11:27	12.33	35.1		1.24

DAWN IN EAST

IMAGES

Telescope: 61"

Frame prefix #: FR89D

Day of Week: SUNDAY

RA offset:

Focus: 3940

Humdty: 40 Sheet #: 4

Observers:

Date MST/UT: 25/26

Dec offset:

Tailpiece:

Balance: 200

Temp O/I: 57/59 °F

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
X 25	PONS W.	60	(not blue) Open		4:30				9.00 57.00
X 26	"	"	R						2.170 11.470 12.24
X 27	"	111	Blue/ + Dichroic						3000
X 28	"	"	"						
X 29	"	"	"		6:00				300
X 30	LHS 2924	120	Blue		6:33				1.28
X 31	"	"	IJ		6:40	14:28:19.5	33:14:03.3	3:07	1.29
X 32	"	300	Blue	nothing	7:01				1.4
33	BRORSSEN METCALF	60	Open		10:13			-2:15	1.41
34	"	180	R	/8900	10:20	23:25:15	0:45:36	-2:09	1.39 * 26th 10UT
35	"	180	R	/7600	10:31	23:23:43.8	0:25:04		1.35 *
36	"	240	R	/9800	10:38	23:25:15	0:45:22	-1:5(?)	1.33 * 25th 10UT
37	"	240	R	/9400	10:45	23:23:43.6	0:24:56		1.31 bad tracking *
38	"	180	R	/7700	10:54	23:26:35.8	1:3:36	-1:37	1.28 * "
39	"	240	R	/	11:03.5	23:26:35.7	1:3:34.2	-1:27	1.26 * 27th 7:00 UT

field star passing near comet

Size: ~0.65 0.03

IMAGES

Telescope: 61"

Frame prefix #: FR89D

Day of Week: MONDAY

RA offset:

Focus:

Humdty: 38 Sheet #: 5

Observers:

Date MST/UT: 26/27

Dec offset:

Tailpiece:

Balance:

Temp O/I: 59/62

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST/UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)	
X 40	WEST H.	60	open	/7450	3:42	13:55:48	-13:5:41			
X 41	"	"	"	/7000	4:01			1:05	1.50	
- 42	LHS 2924	120	Blue Dichroik	/1210	6:13					
- X 43	Neptune	60s	Blue Dich	/1220	7:05				Interference	
- X 44	"	10s	"	/1060	7:16					
- X 45	Neptune	10s	4	/1070	7:58					
46	BRARS.	60s	open	/9400	9:41	23:26:41.5	1:05:44.9	-2:40	1.53 10UT POS Mon	(0)
47	"	"	"	/8600	10:00	"	1:05:36.9	-2:26?	1.44	" "
48	"	"	"	/8000	10:20	"	1:05:31.0	-2:04	1.36	" "
49	"	"	"	/7800	10:31	23:28:16	1:26:56.7	-1:56	1.33 Tues	(1)
✓ 50	2"	"	"	/7600	10:36	23:25:14	0:45:26	-1:32	Sat	(2)
51	"	90s	"	/11600	10:40	23:23:42.5	0:24:57	-1:43	1.31 Sat	(3)
52	"	"	"	/11500	10:46	23:22:12.4	0:4:59	-1:36	1.30 Fri	(4)
53	"	"	"	/12000	10:51	23:25:13.8	0:45:25.7	-1:31	1:28 Sun	(2)
54	"	80		/10800	10:59	23:20:43.3	0:14:32.6	-1:22	1.27 Thurs	(5)

Not saved

IMAGES

Telescope: 61"

Frame prefix #: FR89D Day of Week: MON.

RA offset:

Focus: 3936 Humdty: 40 Sheet #: 6

Observers:

Date MST/UT: 26/27

Dec offset:

Tailpiece:
Balance: (307) (1275) Temp O/I: 55/58

RENAME
FR89D56
WYONG
NAME

Exp #	Object	Exp time	Filter	Counts Object/Sky	Exp start MST/UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
55	Brosen Metcalf	80	none	11500	11:02	23:25:56	0:54:24	-1:23	1.25 ^{sec z} (6) Sun + 1/2 not saved
56	"	70	"	10700	11:04	23:27:28	1:14:48.9	-1:22	1.25 (7) Mont + 1/2 (seven)
57	"	"	"	12000	11:08	23:27:28	1:14:48		(7)
58	"	"	"	14000	11:11	23:28:16	1:26:55		(1)
59	"	"	"	16000	11:14	23:25:14	0:45:26		(2)
60	"	"	"	19000	11:17	23:23:43	0:24:57		(3)
61	"	(50)	"	17000	11:19	23 22 12	00 05 00		(4)
62	"	"	"	19000	11:21	23 20 44	-00 14 32		(5)
63	"	30	"	14000	11:22	23 25 56	00 54 24		(6)
64	"	"	"	17000	11:24	23 27 28	01 14 48		(7)
65	FLAT	.02	"						Variat = 80
66	"	"	"						"
67	"	"	"						"
68									
69									

CO-ADDED FLAT FIELD: FF89DOP1.IM