

Telescope: 61"

Frame prefix #: SP9081

Day of Week: Tue

RA offset:

Focus: 3530

Humdty: 76% Sheet #: 1

Observers: Rnk, Gung

Date MST/UT: Feb. 24/28

Dec offset:

Tailpiece: 34.3

Balance:

Temp O/I: 32/36

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.)
001	W12 (11900)	600s	0.50mm	2460/1000	5:01:00	9:06:22	+22:16:21	-0:16	no cloud 1.04 W12 90 B28.4H 2000 4300 1/200
002	"	1200	0.50mm	3600/1000	5:13:10	11:31.5	19	-0:43	1.03 R360 no cloud
003	"	"	"	4100/1000	5:35:16	30.3	17.6	-0:22	1.02 no cloud
004	#27 BS 3626	140	"	9800		9:08:17	+26:40:04	+0:03	1.01
005	"	"	"	9200	7:03	-			
006	"	"	"	9890					
007	"	"	"	10700					1.01
008	W12 (11000)	1200	"	4400/1000	6:13:48	9:06:28.4	22:16:04	+0:16	1.02 quadrup appears very dark
009	"	"	"	3800/1000	6:38:09	27.2	16:03	+0:40	1.03 quadrup "
010	BS 3626	1.00	"	10080					
011	"	"	"	10700	7:05	9:08:16	+26:40:01	+1:05	1.04
012	"	"	"	10400					
013	"	"	"	10050	7:09			12:09	1.04
014	BS 4534	0.04	1.0	9900	7:24	11:48:38	+14:37:11	-1:15	1.10
015	"	"	"	10200					"

filed down

24" &amp; to offset M.A. 64.

Telescope: 614

Frame prefix #: SP00B

Day of Week: Tue

RA offset:

Focus:

Humdty:

Sheet #: 2

Observers: Fink, Grady

Date MST/UT: Feb. 24/28

Dec offset:

Tailpiece:

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.)
016	BC4534 <sup>HPR</sup>	0.04	1.0m	10400					
017	"	"	"	9600		11:48:32	14:37:07	-1:04	1.09
018	SW3	2.0	2.50				far field		HRA (1989v) open, Al mirror → swapped Net 150ms at mid.
18	SW3	6.0	0.50	140 <sup>300</sup> /1100	9:29	15:20:16.0	2:04:49	-2:41	1.57 group 200ms Net open/min 10.00
19	"	12.0	"	1730 <sup>600</sup> /1100	9:40:58	17.0	42	-2:30	1.45 jumped over tone
20	"	"	"	"		16.8	09:31	-2:08	1.36
21	"	"	"	200 <sup>800</sup> /1200	10:24:05	19.5	4:22	-1:46	1.24 fudgery.
22	BS5853 <sup>F</sup>	0.7	"	9000		15:43:35	-2:32:32	-1:41	1.27 Cap
23	"	"	"	8000					
24	"	"	"	7200		"	"	-1:56	1.26
25	"	"	"	9200					
26	BS6209	"	"	7300		16:52:16	-2:23:24	-2:34	2.36 Cap
27	"	"	"	6400				-2:55	2.35
28	"	0.8	"	8800				-2:33	2.29

Telescope: 61"

Frame prefix #: S099B

Day of Week: Wed

RA offset:

Focus:

Humidity: 91% Sheet #: 3

Observers: FX, Lynn

Date MST/UT: Feb 28 / Mar 01

Dec offset:

Tailpiece:

Balance:

Temp O/I: 28/33

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.)	
029	BS 6269	0.8	"	9200				-2:22 2:20		
030	<del>BS 6269</del>								In middle of milky way; couldn't find it	
030	FF	0-10sec	all the way up	5500					Vain in RT all layers	
031	"	"	+ dichroic	"					Some scattered light from dawn window	
032	"	"	"	5490						
033	"			5470					Was done each layer	
034	"			5704					clean up ~ 11 pm MST	
035	"			5410					did FF.	
036	"	"	"	5410						
037	"			5440						
038	"	"	"	5480						
039	"	"	"	5520						
040	Wick	1200	0.70	3900/1100	7:03	9:05:45	22 16 31.8	+1:09	1.05	Seeing a little scattered light from fog; see note!
041	"	"	"	5760/1100				1:52	1.08	Found on detector

042

PIS 1100 - 1800 see note

Telescope:

Frame prefix #: SP90B

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 9

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.)
042	Wied	1200	0.50	3900	7:47	9:05:48.2	22:16:29	1:54	1.12
043	RS3626	1.0	"	10666					1.15
044	"	"	"	10100		9:08:15	20:40:13	4:2:19	1.16
045	"	"	"	10200					
046	"	"	"	6750		"	"	2:22	1.17 new edge
047	Wied	1200	"	3800	8:22	9:05:43.0	22:16:49	2:29	1.21
048	"	"	"	3650	8:43	424	"	2:30	1.24 most clear during exp.
049	"	"	"	3520	9:04	421	51	3:12	1.38
050	RS3626	1.0	"	9300	9:30			3:34	1.45
051	"	"	"	10140					
052	"	"	"	10560				3:36	1.46
053	"	"	"	9200				"	"
054	SW2	1200	"	20240	9:50	15:28:38.1	12:59:03	-2:19	1.41 2nd most things by clear
055	"	"	"	2050/110				-1:58	1.33
056	"	"	"	2000/1100		23:40	12:58:37	-1:35	1.27

4234



Telescope: 61"

Frame prefix #: SPQR

Day of Week: WU

RA offset:

Focus:

Humdty: 87 Sheet #: 5

Observers: Fink, Jung

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 29/33

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.)
057	SW3	1200	0-10	2100	10:18	1523429	9 827	-1:19	1.22
058	"	"	"	"	11:18	455	126	-0:52	1.19
059	"	"	"	2000	11:41	.		-0:30	1.17
060	<sup>#20</sup> RST551	0.25	1.00m	8660	12:09	144546	1 5534	+0:36	1.17 Std.
061	"	"	"	8820					
062	"	"	"	7350				0:39	1.18
063	"	"	"	8800	12:13			0:40	1.18
064	FF	0.20	3m	4200			-32°	0:44	2.27 (inlet -65°)
065	"	"	"	"					
066	"	"	"	"					
067	"	"	"	"					
068	"								
069	"								
070	"	"	"	"					
071	"	"	"						



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FR

Telescope: 61"

Default Bias: -.0065 -.003

2

Frame prefix #: 90B

Day of Week: TUES/WED

RA offset:

Focus: 3540

Humdty: 71% Sheet #:

Observers: Grundy, Fink

Date MST/UT: 27/28

Dec offset:

Tailpiece:

Balance:

Temp O/I: 34/37

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.)
512 <sup>2</sup>	<sup>GE698B28.GH</sup> GEORGE	60	Open	/9000	2:39				
"	"	"	"	/	2:43				at bottom
256 <sup>2</sup>	Standard Star	<sup>GEAM</sup> SPLITTER	1/2 sec			7:11:54.0	+24:13:51	BEAM	SPLITTER (IS BAD)
/				Set Guidepoints w/ Dichroic: (374, 409)					(to avoid high spot for spectra)
/				Use rates: (-.0145, -.003)					H% = 77%
/				Use Guidehistory WLD90B28.GH					T% = 35/32
256 <sup>2</sup>	WILD	60	B/Dich	<sup>Ph 45000</sup> <sup>Pk 5000</sup> SK/100	4:59	(see spectroscopy sheets)			
"	"	"	"		5:14				Partly cloudy
"	"	"	"		5:32				
"	"	"	"		5:47				
"	"	"	"		5:53				
/	Comp star			BS	6	(1 second exposures)			
256 <sup>m</sup>	WILD	60	B/DICH		6:12				
"	"	"	"	<sup>Ph 3500</sup> <sup>Ph 45000</sup>	6:30				
"	"	"	"	<sup>SK ~1180</sup>	6:45				

Telescope: 61"

Frame prefix #: FR90B

Day of Week: TUES/WED

RA offset:

Focus:

Humdty:

Sheet #: 3

Observers: Fink, Grundy

Date MST/UT: 27/28

Dec offset:

Tailpiece:

Temp O/I:

Balance:

256<sup>2</sup>

512<sup>2</sup>

"

256<sup>2</sup>

512<sup>2</sup>

886<sup>2</sup>

256<sup>2</sup>

"

"

"

"

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.)
23	WILD	60	B/D;	45000	6:57				
	COMP *								H% = 74%, T% = 31/35
24	HRA	60	open	<sup>Phot</sup> ~23000	7:50.5				using HRA 90B 28
25	"	"	"	Phot =	8:02				sec z = 1.22 Bias = (-.0153, -.019)
26	"	"	"	15000	8:15	13:15:53	62:28:02	-1:48	faint comet
	USING SW3			Rates: (+.028, -.007)					SW 390B 28.GH
27	SW-3	60	Open	Pk=13000	9:15				nice tail
28	"	"	B/Dichr	Pk=450/ Ph=10000	9:26				+ Asteroid? (near top of frame) (no, cosmic ray)
29	"	"	"		9:46				
30	"	"	"		10:01				
31	"	"	"		10:14				
32	"	"	"		10:29				
33	"	"	"		10:43				



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Telescope: 61"

(374,409)

Frame prefix #: FR90B

Day of Week: Wed/Thurs

RA offset:

Focus:

Humdty: 90% Sheet #: 5

Observers: Fink, Grundy

Date MST/UT: 28/01

Dec offset:

Tailpiece:

Balance:

Temp O/I: 29/33

256<sup>2</sup>

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.)
36	WILD	60	B/Dichr	42000 ph 2700 pk	7:00			$\delta = +22.5$	WLD90B01.GH
"	"	"	"		<del>7:27</del>	?			H% = 91%
"	"	"	"		7:29				
"	"	"	"		8:20				
"	"	"	"		8:46				
"	"	"	"		9:03				
"	"	"	"		9:23				
	→ SW-3			rates:	(.028, -.007)				SW390B01.GH $\delta = +15$
"	SW-3	60	B/Dichr		9:53				
"	"	"	"	11000 ph 1600 pk	10:12				
"	"	"	"		10:29				
"	"	"	"		10:46				
"	"	"	"		11:09				
"	"	"	"		11:32				
"	"	"	"		12:00				