PADMASTER® Made in U.S.A.

Telescope: 61"

Frame prefix #: SP90E Day of Week: Monday RA offset: Focus: 3470 Humidity: 40 Sheet #: 1

Tailpiece: 353

Observers: Fitt / Lynn Date MST/OT: Oct. 08/09 Dec offset: Balance: Temp Ø/I: 40 | 44

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.)
				60 30 30 Not	Find	11 01 52	14 57 31		GP. 377.5 Row, 420 Col
001	Feb	30	0-70	160 / 1200 200 /	Set	11 03 53	14 46 13	-5:01	2.90
002	"	60	"		12:19	11:01:59	14 58 14	-4:59	2.73
003	BS 3862	1.0	"	900				-	3.49 dam.
004	"	0-70	"	700	12:39	9:41:50	-23 25 52	-3:13	3.40 gelly dam
005	"	"	"	600	12:40	"	"	-3:12	3.36
006	"	"	"	700	12:42			-3:10	3.32 $\dot{\delta} = -.0065$
007	"	"	"	800	12:45			-3:08	3.24 $\dot{\delta} = -.005$
008	"	"	"	700	12:46			-3:07	3.20

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Telescope:

Frame prefix #: SP90B | Day of Week: | RA offset: | Focus: | Humidity: | Sheet #: 2

Tailpiece:

Observers: | Date MST/OT: Oct. 09/10 | Dec offset: | Balance: | Temp Ø/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.)
032	Rim	2m	0.50	Mg 2nd					shot N-S
033	"	2m	0.25	Mg 2nd					shot N-S
034	Rim	2m	0.25	3000	~10:35			~-0:20	1.02 filter rotated again
035	"	"	"	~3000	10:43			-0:14	1.02
036	"	"	0.10	~5000	10:55			-0:04	1.02 see slit 0.5 mm slit dim
				Just dim	not look	like	good	reducable	data
				Therefore	forgot	shot	Photo	[extend difficult to	find glint of Deimos]
037	BS3710	0.10m	0.50	8000	11:55	92722	-60212	-3:40	2.36
038	"	"	"	8000	11:57	"	"	-3:38	2.33
039	"	"	"	" 2nd not	11:57			-3:37	2.31
040	Enke	60	" 0.25	45m 23m / 50m 16m / 20m	12:09	11:09 41	13:41 53	-5:07	3.20
041	"	"	"	44m 36m / 60m 3m	12:21	11:09 45	13:41:05	-4:58	2.85 ~2.85 at end getting dim
042	BS3862	0.70	"	8500	12:39	9:41:46	-23:50 19	-3:10	3.30
043	"	"	"	7000	12:41			-3:08	3.25 missing diffraction-like slit
044	"	"	"	8500	12:43			-3:06	3.20

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Telescope:

Frame prefix #: SP10E

Day of Week:

RA offset:

Focus:

Humidity:

Sheet #: 3

Tailpiece:

Observers:

Date MST/OT:

Dec offset:

Balance:

Temp Ø/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.)
045	BS 3862	0.70	0.10	82w	12:44			-3:04	3.15
046	"	"	"	8700	12:46			-3:03	3.12
047	"	0.60		1000 82w	12:47			-3:02	3.09

Telescope:

Frame prefix #: SP90E Day of Week: Wed RA offset: Focus: 3790 Humdty: 40 Sheet #: 4

Tailpiece: 34.3

Observers: Fix [illegible] Schmidt Date MST/UT: Oct 10/11 Dec offset: Balance: Temp O/I: 44/46

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.)
048	BS 7906	0.10	1.00m	7200		20:39:12	15:00 24	+0:26	1.05 zfd
049	"	"	"	6500	3:12	"	"	0:27	1.05
050	"	"	"	6800	3:14	"	"	0:24	1.05
051	"	"	"	7200	3:15	"	"	0:30	1.05
052	"	"	"	7500	3:16			0:32	1.05
053	BS 5208	1.0	0.10	8000	8:00	1:49 27.9	+20 02 25	+0:12	1.03 ← TUD Guide
054	"	"	"	7700	8:01	1:44:26.3	+19:59:41	0:12	1.03 ← Center of slit
055	"	"	"	"	8:02			+0:13	1.03
056	"	"	"	7300	8:04			+0:15	1.03
057	BS 2251	0.70	"	7800	8:14	6:16:95.1	5 07 49	-4:06	2.24 ← TUD Guide
058	"	"	"	8000	8:15	6 16 50.8	5 04 38		2.23 ← Set +1:7 -30.9 finder
059	"	"		8300					2.21
060	"	"	"	10000	8:17			-4:04	2.20 376.5 420
061	Kopff	60	0.10	60 output det 30 1780/1410	10:17	21:11:14.4	5:31:43	+2:02	1.24 ½ Moon up attempt pointing
062	"	180	"	190 1150 360 out	10:20	18.9	38.1	+2:25	1.37
063	"	"	"		11:12				1.53 star entered slit near end of exposure

had to wait 2:10 min for star to pass by!

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Telescope: 61"

Frame prefix #: SP90E Day of Week: Wed RA offset: Focus: Humidity: Sheet #: 5

Tailpiece:

Observers: Fil/Kenny Date MST/OT: Dec offset: Balance: Temp Ø/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.)
063	Kapteyn	180	0.50	wet/1500	11:12	21:37.4	52:51	+2:57	1.53
064	Ende	600	0.50	2700/1650 7000/2500	12:08	11:17:16	12:25:03	-5:12	3.53
065	"	"	"		12:19	17:21	24:18	-5:02	3.11 →
066	BS3802	0.70	"	8700	12:35	9:41:50	-23:53:26		3.29
67	"	0.7	"	12000/9000	12:36			-3:08	3.26
68	"	0.6	"	10000/7000	12:38			-3:06	3.21
69	"	0.6	"	10000/7700	12:40			-3:05	3.17
70	"	0.5	"	9000/7200	12:42			-3:03	3.12
71	"	"	"	9000/7100	12:44			-3:01	3.07

Z min pad to Nat pitch: 2500 fwhm

30s: rad 5000 140 ms

Telescope: 61"

Frame prefix #: FR90E Day of Week: Mon/Tues RA offset: Focus: 3470 Humdty: 48% Sheet #: 1

Tailpiece:

Observers: Grundy, Fink Date MST/UT: 8/9 Dec offset: Balance: Iris 300 Temp O/I: 39/42

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.)
	Guidepoint			(371.3, 420)			dec = +21		MarsØ9E.GH
	256 x 256		starting:		Row 245, column 300				
	Set Guidepoint (377.5, 420)								
	ENKE			($\dot{\alpha}$ .075)		(-.055 $\dot{\delta}$)			ENKEØ9E.GH
1	" 30s	12:00	B/Dick	512 x 512					
2	" 30s	12:13	"	256 x 256					
3	"	30s	"	12:29		sky coming up fast			
						Humidity 30%			
						T O/I = 40/44			

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Telescope: 61"

Frame prefix #: FR90E Day of Week: Tus/Wed RA offset: Focus: Humidity: 38% Sheet #: 2

Tailpiece:

Observers: Fink, Gordy Date MST/OT: 9/10 Dec offset: Balance: Temp Ø/I: 45/43

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.)
	Guidepoint (378				420)				Mars 10E.6H
	Guidepoint (377.5,				420)				ENCKE10E.6H
	ENCKE		(α=.075		δ-.055)				rising in east
4	"	30	B/Dich	Peak: 4500 Phot: 120,000	12:10 UT				
5	"	"	"		12:22				

Telescope: 61"

Frame prefix #: FR90E | Day of Week: Wed/Thurs | RA offset: | Focus: | Humdty: 40% | Sheet #: 3

Tailpiece:

Observers: Fink, Grundy | Date MST/UT: 10/11 | Dec offset: | Balance: | Temp O/I: 44/46

	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.)
					(376.5,	420)	Guidepoint	Mars 11	E.GH	ho satellites)
		Kopff								KOPFF 11 E.GH
512^2	6	"	60s	open	6900 pk 35000 ph	9:54				
"	7	"	"	"	7200 pk 35000 ph	9:58	$\dot{\delta} = -.007$			comet right next
256^2	8	"	"	B/Dichr	1150 pk 1120? ph 2700 3400?	10:08	$\dot{\alpha} = -.0165$			to a faint *
"	9	"	"	"		10:42				Comet moves west (up)
"	10	"	"	"		11:07				comet has oblong shape: S N
"	11	"	"	"		11:30				profile: S N
"	12	"	"	"		11:40				
512^2	~~13~~	~~"~~	~~"~~	~~Open~~		~~11:45 UT~~	(Not saved)		~~3:30~~	~~1.77 = Sec z~~
"	13	"	"	Open		11:48				
256^2	14	"	"	"		11:59				Sec z = 1.83
"	15	"	"	"		11:50				
"	16	ENCKE	30s	B/Dichr.	Pk = 5700 Ph = 140000	12:04				
"	17	"	"	"		12:17				Dawn in East
"	18	"	"	"	$\dot{\alpha} = +.075$	$\dot{\delta} = -.055$	12:28	$\delta = +12.5$		

IRIS-501

Telescope: 61"

Frame prefix #: FR90E Day of Week: wed RA offset: Focus: 3995 Humdty: Sheet #: —

Tailpiece: 34.3

Observers: Schultz Date MST/UT: Oct 10/11 Dec offset: 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.)
✓104	Flat	1.0	B	12900					fill short dewar 3:30 P.M. fill long dewar 3:40 P.M.
✓105	"	"	"	12800					short dewar 4:40 P.M.
✓106	"	0.2	V	15100					Telescope −32:35 vane 859
✓107	"	"	"	15100					
✓108	"	0.1	R	13800					
✓109	"	"	"	13900					
✓110	"	0.04	I	13200					
✓111	"	"	"	13200					
✓112	Dark	1.0		793					
✓113	"	"		792					
✓114	AM1953-260	300	V		2:05:[illegible]	19:59:06	−25:46:07	1.91	+00:04
✓115		600	B		2:14:18			1.91	+00:13
✓116		300	R		2:27:20			1.93	+00:27 Focus 3998
✓117		300	I	15000	2:35:50			1.94	+00:35 Focus 3940
✓118	NGC7006	20	V			21:00:59	+16:06:05	1.06	+00:40 Focus 3986

Telescope:

Frame prefix #: Day of Week: RA offset: Focus: Humdty: Sheet #:

Tailpiece:

Observers: Date MST/UT: Dec offset: 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.)
119	NGC 90 06	20	V	20				1.06	+00:42
120	"	40	B	40				1.06	+00:45
121	"	"	B	40				1.06	+00:47
122	"	20	R	20				1.06	+00:51
123	"	"	R	20				1.07	+00:56
124	"	"	I	20				1.07	
125	"	"	I	20				1.08	+01:03
126	Dark	1.0							
127	"	"							
128	LAN 92 332	0.6	V	13000		01:54:37	0:40:51	1.47	-2:28
129		"	V					1.46	-2:26
130		1.5	B	10500				1.44	-2:22
131		"	"	7880				1.42	-2:20
132		"	"	101200				1.42	-2:18
133		0.4	R	10300				1.41	-2:13

Telescope: 61"

Frame prefix #: FR90E Day of Week: Wed RA offset: Focus: 2981 Humdty: 40 Sheet #:
Tailpiece: 34.3

Observers: Schultz Date MST/UT: Oct 10/11 Dec offset: Balance: Temp O/I: 42/46

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.)
✓134	LAN	0.4	R	11776				1.40	-2:11
✓135		0.4	I	9700				1.39	-2:10
✓136		0.5	"	12400				1.38	-2:08
✓137		"	"	13100				1.38	-2:07
✓138	Dark	1.0	N/A						
✓139	Dark	1.0	N/A						