

Telescope: 61"

Frame prefix #: FR88 IR

Day of Week: Friday

RA offset:

Focus: 3930

Humdy: 49% Sheet #: 1

Observers: Fk, Paty, Keme

Date MST/UT: 02/07/08  
282

Dec offset:

Tailpiece: 36  
Balance: 400

Temp O/I: 53/53

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.)
✓ 001	He	0.05	0.10	800/100	0:03	<del>18</del>			
✓ 002	"	"	"		"				
✓ 003	"	0.30	"						
✓ 004	Te	"	"						
✓ 005	"	"	"		0:18				
✓ 006	"	0.05	"						1
7 ✓ 007	Phobos	60	0.25 <sup>mm</sup>		22:53	0:15:10.87	-2:35:4.5 <sub>s</sub>	0:36:9	sec Z 1.24 Pds. angle: 970
8 ✓ 008	Phobos	60	0.25		22:57	0:15:10.61	-2:35:5.1 <sub>s</sub>	0:32:16	SZ 1.23 PA "
9 ✓ 009	Phobos	60	0.25		23:0:39	0:15:10.14	-2:35:5.7 <sub>s</sub>	0:28:51	sec Z 1.23 PA "
10 ✓ 000	Phobos	60	0.25		23:2:41	0:15:9.91	-2:35:59 <sub>s</sub>	0:26:56	1.23 "
11 ✓ 011	Deimos	60	0.25		23:27	0:15:9.69	-2:34:49.9 <sub>s</sub>	0:2:31	sec Z 1.22 Page 10
12 ✓ 012	Deimos	120	0.25		23:33:120	0:15:9:20	-2:34:50.3 <sub>s</sub>	0:3:39	1.22 "
13 ✓ 013	Deimos	120	0.25		23:38	0:15:8.88	-2:34:54.6	0:8:24	1.22 "
14 ✓ 014	Deimos	120	0.25		23:44:52	0:15:8:42	-2:34:54.9 <sub>s</sub>	0:15:22	1.22 " "
15 ✓ 015	Deimos	120	0.25		23:55	0:15:7.73	-2:34:55.5 <sub>s</sub>	0:24	sec Z 1.23 fixed slit jaws reflection PA = 10

Telescope: 61"

Frame prefix #: FR881 Day of Week: FRIDAY

RA offset:

Focus: 3930

Humdty:

Sheet #: 2

Observers: FINK  
PORTER  
GRUNDY Date MST/UT: oct 7/8

Dec offset:

Tailpiece:

Balance: 460 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 ✓	D16 Deimos	120	0.25		0:3:14	0:15:6.97	-2:34:55.9 <sub>s</sub>	0:33:50	Iris → 240 1.24 (moved 23:59 MST) PA=10
17 ✓	D17 Deimos	120	0.25		0:14:20	0:15:5.89	-2:34:56.4 <sub>s</sub>	0:45	sec 2 1.25 "
16 Test	D18 MARS	.05	0.025		<del>UT 8:19</del>	0:14:59	-2:35:50	<del>1:50</del>	sec 2 1.38 PA=36
19 Center ✓	D19 "	.05	0.025		UT 8:20	0:14:59	-2:35:50		sec 2 "
20 to ✓	D20 "	.05	"		UT 8:21	0:14:59:46			sec 2 "
21 limb ✓	D21 "	.05	"			" 59:57		1:53:11	sec 2 1.39 "
21 Var. ✓	D22 "	.05	"			" 59:67			"
22 ✓	D23 "	.05	"		UT 8:24	" 59:78			"
23 ✓	D24 "	.05	"			" 59:87		1:55:53	"
24 ✓	D25 "	.05	"		UT 8:26	" 59:97		1:57:09	sec 2 1.41 "
25 ✓	D26 BS 560	0.6	.25		UT 9:23:50	1:55:18.99 <sub>6</sub>	1:47:25.4 <sub>N</sub>	1:14:40 <sub>W</sub>	sec 2 1.22 "
✓	D27 BS 560	0.6	.25		UT 9:25:20	1:55:18:97	1:47:25.5 <sub>N</sub>	1:16:0 <sub>W</sub>	sec 2 1.23 "
✓	D28 BS 560	0.6	.25	9100	UT 9:27:18	" 18:80	" 25.5 <sub>N</sub>	1:18:5 <sub>W</sub>	sec 2 1.23 "
✓	D29 "	"	"	9000	9:28:05	18.70	" 25.6	1:18:54 <sub>W</sub>	sec 2 1.23 "
✓	D30 "	"	"	7700	9:29:15	" 18.75	25.7	1:19:56	sec 2 1.24 "

Telescope: 61"

iris = 297

Frame prefix #: FR88I

Day of Week: Friday (sat AM)

RA offset:

Focus: 4012

Humdty:

Sheet #: 3

Observers: Fink etc.

Date MST/UT: 7/81

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	B5560	0.6	.25	8100	UT 9:30	155.18.75	147.25.8N	120.49W	secz 1.24 PA = 36
32	"	2.0	.25		UT 9:31.37	" 18.77	25.8N	122.20W	secz (out of focus 4012) "
33	"	6.0	.25	9700 / 938	UT 9:33.08	" 18.78	" 25.9N	1:23:50	1.24 (out of focus) "
34	"	6.0	"	10100	UT 9:34.	" 18.78	" 26.0 N	1.24.50	secz 1.25 (" ) "
Images:					MST:				
2	Blank 1	600	JIR		3:51:22	3:40.07.70	25:27:46.8N	0:57:00	secz focus = 3875 (new filter BIR)
2	Blank 2	2:40 (4 min)	Broad		4:44:50	" 07.77	" 47.2N	1:11:00W	focus = 3930
2	Blank 3	"	Broad		4:12:10	" 07.82	25:33:47.5N	1:18:10W	Moved secz = 1.06 "
2	Blank 4	600	JIR		4:19:19	" 07.88	" 47.9 N	1:25:35W	focus = 3875
2	Blank 5	600	JIR		4:38:16	" 08.02	" 48.9	1:44:28	Moved secz = 1.09 focus = 3875 (F-55)
2	Blank 6	240	BROAD		4:53:25	08.14	49.9	1:59:01	secz = 1.12 focus = 3930
	(B)								
							29:48.9		

Telescope: 61"

Frame prefix #: FR881

Day of Week: SATURDAY

RA offset:

Focus: 3921

Humdty: 50% Sheet #: 4

Observers: FINK & co.

Date MST/UT: 8/9

Dec offset:

Tailpiece:

Balance: 450

Temp O/I: 52°F/54°F

Take sheet

34

35

36

37

38

39

40

41

42

43

44

45

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start <del>MST</del> UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)	
41	TEMPLE 2	1200s	.25		03:11:47	18:52:35.4	-30:28:05	2:10 min	Sec 2 2.92	5200 Å
<del>42</del>	comp star BS 8148	1s	.25		04:01:51	8:11:15F			Sec 2	<del>beam splitter</del>
<del>43</del>	BS 8148	1s	.25							<del>+ O1530 filter</del>
42	BS 8148	1	.25		04:09:27	21:19:11	26:23:39		1.99	"
43	"	"	"			"	"		"	"
44	"	2s			4:14	"	"		"	"
45	"	2s	"		4:15	"	"		"	"
<del>46</del>		120	"		Premature exposure (nothing in slit)					
46	Deimos	120	.25		5:07:32	0:14:16.10	2:37:6.6s		1.29	PA 36 slit NS
47	"	120	.25		5:12:33				1.	"
48	"	"	"		5:16:14					"
49	"	"	"		5:19:29	0:14:15.49	2:37:7.9s	1:4.~ E	1.27	"
<del>50</del>					5:22:24	Premature exposure (nothing whoops! slit)				
51	"	"	"		5:25:51					"
52					5:29:19			0:55 E	1.26	

(notations in pen were added later)

Telescope: 61"

Frame prefix #: FR88I

Day of Week: SATURDAY

RA offset:

Focus: 3918

Humdty: 51

Sheet #: 5

Observers: Fink & Co.

Date MST/UT: 8/9

Dec offset:

Tailpiece:

Balance: 450

Temp O/I: 50°/53°F

Tape	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.)
	46	53	Deimos	120	.25		5:32:42	0:14:14.70	-2:37:9.4	0:50
47	54	"	"	"		5:35:59				" "
48	55	"	"	"		5:39:20			45e	1.25 " "
49	56	"	"	"		5:42:15				" "
50	57	"	"	"		5:52:01	<del>0:14:13.70</del>	<del>-2:37:10.9</del>	<del>0:24</del>	<del>1.24</del> " "
51	58	"	"	"		6:01:56	0:14:13.05	-2:37:11.75	0:20 E	1.23 " "
52	59	"	"	"		6:05:22				" "
53	60					6:08:20				
JAPE 2 1	61					6:13:12				
2	62	"	"	"		6:16:04	0:14:12.17	-2:37:12.8 <sub>s</sub>	0:16 E	1.22 " "
3	63					6:50:32	0:14:10.25	-2:37:14.5 <sub>s</sub>	0:27 W	1.23 " "
4	64	"	240			6:53:43				
5	65	"	240	"		<del>6:53:43</del>				
6	66		"			7:06:16				
7	67		"							

Telescope: 61"

Frame prefix #: FR88I

Day of Week: SATURDAY

RA offset:

Focus: 398

Humdty: 51% Sheet #: 6

Observers: Fink & others

Date MST/UT: 8/9

Dec offset:

Tailpiece:

Balance:

Temp O/I:

tape

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.)
8	68 Deimos	240	0.25		7:19:24	0:14:8.44	2:37:15.3	1:20 W	sec Z 1.26 PA=36 Apodising mask
9	69 "	120	1.00						" "
10	70 "	"	"						" "
11	71 "	240	0.25		7				" "
12	72 "	"	"		7:37				" (wrote some to tape)
13	73 Com Star BS8931	1 sec	1.0			23:30:56.24	-4:9:25.7	+2:19	sec Z 1.53
14	74 "	"	"						
15	75 "	1.5s	0.25						
16	76 "	"	"						
17	77 "	"	"						
18	78 "	"	"		8:05:06				
19	79 "	"	"						sec Z 1.58 wrote some to tape
20	80 BS560	1.0	"		8:20:45	1:55:19.4	+1:47:18.0	18 min W	1.17
21	81 "	"	"						
22	82 "	1.2s	"						

Telescope: 61"

Frame prefix #: FR88I

Day of Week: SATURDAY

RA offset:

Focus:

Humdty: 52% Sheet #: 7

Observers:

Date MST/UT: OCT 8/9

Dec offset:

Tailpiece:

Balance:

Temp O/I: 49°F/52°F

Tape #	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	83	B5560	1.2	0.25						
24	84	"	"	"						
25	85	"	"	"	8:22:15	8:22:56			+25min	sec = 1.17 ✓
26	86	"	1.5	0.25		8:58:48			0:56min <sub>W</sub>	1.20
27	87	"	"	"		9:00:03				
28	88	"	"	"		9:01:07				
29	89	"	1.3	0.25		9:05:48			1:01 W	✓
30	90	B52007	"	"						
31	91	"	1.0	"					-2:31	1.60
32	92	"	"	"						
33	93	"	"	"						
34	94	<sup>STANDARD</sup> B5718*	0.2	1.0			2:27:33:20	+8:23:4.2	+1:20	1.16
35	95	"	0.3	"					+1:26	1.17
36	96	"	"	"					+1:27	1.17
37	97	"	"	"					+1:28	1.17







Frame prefix #: F288 I

Telescope: 61<sup>41</sup>

Day of Week: *Mon*

RA offset:

Focus: 3890

Humdty: 79% Sheet #: 3 10

Observers: *Fish Parker, Ken*

Date MST/UT: 10/11 Oct.

Dec offset:

Tailpiece: 36

Balance: 70

Temp O/I: 42/44

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.)
108	<i>Mars</i>	0.05	0.09	1000/100	<del>7:50:27</del>	0:12:08.2	-2:24:12	11:24	1.35 <del>the sky</del>
109	4					08.76		"	Very dichroic
110	"					08.95			+ 06.530 Pm
111	"					8.94			
112					78.54	9.02			high
113					2:59.36	9.09			OI better
114					0:14	9.18		11:45	1.37
115					8:10 53	9.25		11:40:23	1 right m
116					04:48	8.39			
117					05:42	8.25			
118					06:29	8.12		11:51.50	1.39
119					02:05	7.99	-2:24:11.8		
120					07:49	7.87		11.7	"
121					8:08:28	7.75		11:54:01	
122					09:09	7.63			1.40
122					09:48	7.52	-2:24:11.6	1:55:20	" a little left

10/11/08  
 Fish Parker  
 Ken

Telescope: 614  
 Frame prefix #: FRPPI  
 Observers: F&H

Day of Week: Monday  
 Date MST/UT: Oct-10/11

RA offset:  
 Dec offset:

Focus:  
 Tailpiece:  
 Balance: Temp O/I:

Humdty: Sheet #: 2

11

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.)
124	Mars	0.05	0.04	900	8:26:29	7:43			+ little water
125						7:10			
126					8:28:19	7:17		22:18:10	1.47
127					29:17	7:05	-21:41:9.8		1.48
128					29:11	7:14		22:17:08	
129					30:12	7:8		2 17:47	
130					30:53	7:9		16:28	1.49
131					31:39	7:98		17:13	1 right
132					35:44	7:205			- little water
133				4800	8:34:36	6:95			1.10
134					8:37:19	6:83		21:20:55	11
135					36:01	6:71		21:21:40	1.51
136					36:43	6:59			
137					32:29	6:106:148	-21:41:48		
138					38:05	6:37		21:23:40	1.52
139					38:45	6:26			11 a little left

Telescope: \_\_\_\_\_  
 Frame prefix #: *F288E* Day of Week: \_\_\_\_\_ RA offset: \_\_\_\_\_ Focus: \_\_\_\_\_ Humdty: \_\_\_\_\_ Sheet #: *3*  
 Observers: \_\_\_\_\_ Date MST/UT: \_\_\_\_\_ Dec offset: \_\_\_\_\_ Tailpiece: \_\_\_\_\_ Balance: \_\_\_\_\_ Temp O/I: \_\_\_\_\_

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start <del>MST</del> UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
140	<i>Deinos</i>	120s	0.25			0:12:2.86	-2:41:27.4	2:17	1.60 no mark slit N/S
141	"	"	"		9:20:17			2:146	1.65 with good mark
142	"	"	"		9:20:5	"	"	2:17	1.68
143					9:10:8			2:27.4	1.71 graph good
144	BS 560	2s	"	9000	9:23:1			1:437	1.27 with
145	BS 560	2Sec	"	10,800	9:37:16				1.28 make mark
146	BS 560	2Sec	"	10,800	9:39:04				1.28
147	"	5sec	0.04	11,700	9:58:25	1:55:17.92	+1:46:32.7	1:59:20	1.34 good mark
148	"	4sec	0.04	9,000	10:00:05			2:03:15	1.35 For 388
149	"	"	"	9,300	10:03:47			2:07:76	1.36
150	"	60sec	"	540/100	08:55			2:11:50	1.38 OUT OF FOCUS For 400
151	"	90	"	7800/1000	10:11:23			2:14	1.39
152	"	"	"	7500	14:14			2:17	1.40
153	"	"	"	7000	10:16:28			2:14	1.41
154	"	"	"	7000	10:20:46	1:55:17.78	+1:46:27.8	2:23	1.43

Telescope: 61"

Frame prefix #: FR88I

Day of Week: ~~SAT~~ SATURDAY

RA offset:

Focus:

Humdty: 52% Sheet #: 13

Observers: Fink, others

Date MST/UT: 05/8/9

Dec offset:

Tailpiece:

Balance:

Temp O/I: 49°F/52°F

tape 2

Position #	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.)
	155	BS 560	90sec	0.04	7,000	10:25:32			2:26	1.44
	156	"	"	"	7,400	27:09	12:15:17.8	12:46:24.6	2:26	1.46
	157	BS 710	0.2	1.00	7,000	10:46:07	2:27:12	8:26:28.8	+ 2:17	1.30 Foc 2876
	158	"	0.2	1.00	8,200	10:47:34			+ 2:18	1.31
	159	"	"	"	9,000	48:47				"
	160	"	"	"	7,000	49:18			2:20	"
	161	BS 207	0.5	0.04	7,000	11:09:10	5:48:1.85	-4:06:38.5	-0:40:48	1.26
	162	"	3.5	"	9,400	11:13:54			-0:38	1.26
	163	"	"	"	8,800	11:14:49			-0:34	1.26
	164	"	"	"	11,700	11:15:49			-0:34	1.26
	165	"	60	"	7,300	11:30:09			-0:20	1.25
	166	"	60	"	6,600	11:32:07			-0:18	1.25
	167	"	"	"	7,000	11:34:28	5:48:01.28	-4:06:47.4	-0:15	1.25
	168	"	"	"	5,000	11:38:05			-0:11	1.25
	169	"	90	"	7,000	40:12			-0:08	"

tape 2

44

Frame prefix #: FR88J

Telescope: 61"

Day of Week: Mon

RA offset:

Focus:

Humdty:

Sheet #: 14a

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.)
170	RS2W7	90s	0.09	7800	11:41:12			-0:206	L24
171	"	1	(16)	7800	11:41:17			-0:203	" 26/1/0 16
172	"	70	"	6000	11:52:11			+0:204	" beln to 23030

done  
 26/1/0  
 16  
 beln to 23030  
 done  
 26/1/0  
 16  
 beln to 23030