

Telescope: Spec - 61" -

IRIS = 320

Frame prefix #: FR96E

Day of Week: Thur/Fri

RA offset: 6 sec west

Focus: 3730 Humdty: 42 Sheet #: (1)

Observers: DISANTI
SCHULTZ

Date MST/UT: May 8/19

Dec offset: 2' 09" north

Tailpiece: 30
Balance: N=430 S=430
Temp O/I: 32/38

| 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 | He | 0.05 | 0.25 | | 3:05:42 | | | | Filled dewar 4:20 P.M. |
| ✓002 | " | 0.2 | | | | | | | |
| ✓003 | Xe | 0.05 | | | | | | | |
| ✓004 | " | 0.1 | | | | | | | |
| ✓005 | " | 0.2 | | | | | | | |
| ✓006 | " | 0.5 | | | | | | | topped off dewar 6:50 P.M. |
| ✓007 | Halley | 180 | 0.25 | 2400 | 3:05:42 | 10:37:55 | -13:03:44 | 0 ^h 11 ^m | |
| ✓008 | | 300 | | 10500 | 3:10:00 | 10:37:56.2 | -13:03:48 | 0 ^h 15 ^m | |
| ✓009 | | 11 | | 8600 | 23:25 | 10:37:53.9 | -13:03:22 | 0 ^h 28.5 ^m | |
| ✓010 | | 11 | | 9300 | 30:15 | 10:37:53.5 | -13:03:13 | 0 ^h 35 ^m | |
| ✓011 | | 11 | | 10400 | 36:55 | 10:37:53.5 | -13:03:05 | 0 ^h 42 ^m | |
| ✓012 | | 1000 | | 8000 | 4:51:43 | 10:37:53.0 | -13:02:53 | 0 ^h 51 ^m | Saw sec EAST |
| ✓013 | | 300 | | 10000 | 4:07:51 | 10:37:52.0 | -13:02:24 | 1 ^h 13 ^m | centered |
| ✓014 | | 11 | | 8800 | 13:58 | 10:37:51.0 | -13:02:15 | 1 ^h 19 ^m | |
| ✓015 | | 1200 | | 5000 | 4:20:50 | 10:37:50.9 | -13:02:07 | 1 ^h 26 ^m | 10 min. sec EAST |

Telescope: 61''

Frame prefix #: FR86E

Day of Week: Thur/Fri

RA offset:

Focus:

Humdty:

Sheet #: (2)

Observers: DISANT I

Date MST/UT: May 8/9

Dec offset:

Tailpiece:

Temp O/I:

Schultz

| 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 | Halley | 300 | 0.25 | 6900 | 4:42:37 | 10:37:49.5 | -13:01:37 | 1 ^h 48 ^m | centered |
| ✓17 | | 11 | | 6300 | 50:02 | 10:37:49.5 | -13:01:27 | 1 ^h 55 ^m | |
| ✓018 | | 1400 | | 3000 | 57:16 | 10:37:50.8 | -13:01:16 | 2 ^h 02.5 ^m | 20 arc sec east |
| ✓019 | | 480 | | 12300 | 5:35:30 | 10:37:46.5 | -13:00:23 | 2 ^h 41 ^m | centered |
| ✓020 | | 360 | | 9600 | 45:18 | 10:37:46.8 | -13:00:08 | 2 ^h 51 ^m | pushed in dewar slide with 2 minutes left to go |
| ✓021 | BS 5996 | 1.0 | | 4000 | 6:06:02 | | | 2 ^h 19 ^m | |
| ✓022 | | 2.0 | | 11800 | 69:12 | 16:06:14.2 | -14:04:12 | 2 ^h 13.5 ^m | |
| ✓023 | | 1.5 | | 8100 | 10:33 | | | 2 ^h 12 ^m | |
| ✓024 | | 1.5 | | 11300 | 13:09 | | | 2 ^h 16 ^m | |
| ✓025 | | 1.2 | | 6900 | 21:50 | | | 2 ^h 01 ^m | Topped off dewar 11:20 |
| ✓026 | | 1.2 | | 7600 | 23:01 | | | 2 ^h 00 ^m | |
| ✓027 | | 1.2 | | 4900 | 32:34 | | | 1 ^h 50 ^m | seeing variable |
| ✓028 | | 1.2 | | 4400 | 34:20 | | | 1 ^h 48.5 ^m | 3 to 5 arc seconds |
| ✓029 | | 1.5 | | 5300 | 35:57 | | | 1 ^h 47 ^m | |
| ✓030 | SAD 120251 | 1 | | 11700 | 4:6:52 | | | 0 ^h 28 ^m | |

Telescope: 61"

Frame prefix #: FR86E

Day of Week: Thur/Fri

RA offset:

Focus:

Humdty:

Sheet #: 3

Observers: DISANTI
SCHULTZ

Date MST/UT: May 8/9

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.) |
|-------|------------|----------|-------------|-------------------|---------------|------------|-----------|---|---|
| ✓031 | SAD 120251 | 0.25 | 0.7 | 6700 | 6:48:23 | 14:01:47.5 | +9:42:51 | 0 ^h 30 ^m W | |
| ✓032 | " | | 0.8 | 7600 | 49:46 | | | 0 ^h 31 ^m | |
| ✓033 | " | | 0.8 | 8100 | 51:05 | | | 0 ^h 32 ^m 5 ^m | |
| ✓034 | BS 5996 | 1.5 | | 8800 | 59:28 | 16:06:14.5 | -14:04:14 | 1 ^h 23 ^m | |
| ✓035 | | " | | 9900 | 7:00:37 | | | 1 ^h 22 ^m | |
| ✓036 | | " | | 11100 | 02:13 | | | 1 ^h 20.5 ^m | |
| ✓037 | SAD 64278 | 5.0 | | 8300 | 17:30 | 14:41:09 | 35:15:51 | 0 ^h 20 ^m W | |
| ✓038 | " | " | | 8100 | 19:00 | | | 0 ^h 21 ^m | |
| ✓039 | " | " | | 7700 | 20:10 | | | 0 ^h 22.5 ^m | |
| 040 | BS 5996 | 1.3 | | 8100 | 28:07 | | | 0 ^h 55 ^m | |
| 041 | | 1.3 | | 10700 | 29:40 | | | 0 ^h 53 ^m | |
| 042 | | 1.0 | | 6000 | 31:09 | | | 0 ^h 51.5 ^m | |
| ✓043 | MCW 478 | 300 | | 6000 | 45:18 | 14:41:33.3 | +35:27:48 | 0 ^h 47.5 ^m | 11.87 AM = 1.016 |
| 044 | | " | | 8200 | 52:31 | | | 0 ^h 54.5 ^m | |
| 045 | | " | | 7300 | 59:20 | | | 1 ^h 01.5 ^m | |

14:41:22 :44

Telescope: 61"

Frame prefix #: FR586E

Day of Week: Thu/Fri RA offset:

Focus: Humdty:

Sheet #: 4

Observers: DISANTI
SCHULTZ

Date MST/UT: May 8/9 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.) |
|-------|---------|----------|-------------|-------------------|---------------|------------|-----------|--|---|
| ✓046 | MKN 476 | 300 | 0.25 | 8800 | 8:06:33 | | | 1 ^h 09 ^m = 12.25 | AM = 1.033 |
| 047 | BS 5996 | 1.0 | | 7600 | 18:29 | 16:06:13.2 | -14:04:19 | 0 ^h 04 ^m | |
| ✓48 | | | | 5200 | 19:51 | | | 0 ^h 03 ^m | |
| ✓49 | | | | 6800 | 21:55 | | | 0 ^h 00.5 ^m | |
| ✓50 | BS 6629 | 0.1 | 1.0 | 8100 | 35:40 | | | 1 ^h 28 ^m E | |
| ✓51 | | 11 | | 8600 | 37:19 | 17:47:09.3 | +2:40:19 | 1 ^h 26 ^m E | |
| ✓52 | | | | 7800 | 38:25 | | | 1 ^h 25 ^m E | |
| ✓53 | BS 5996 | 1.2 | 0.25 | 4000 | 8:50:32 | 16:06:30 | -14:04:19 | 0 ^h 28 ^m W | } seeing worst |
| ✓54 | | 1.5 | | 41000 | 52:05 | | | 0 ^h 29.5 ^m | |
| ✓55 | | 2.0 | | 4400 | 53:37 | | | 0 ^h 31 ^m | |
| ✓56 | BS 5868 | 0.1 | | 3000 | 9:06:58 | 15:45:43 | +7:21:30 | 1 ^h 09 ^m | Focus 3706 |
| ✓57 | | 0.3 | | 3800 | 10:24 | | | 1 ^h 08.5 ^m | |
| ✓58 | | 0.1 | | 3500 | 15:58 | | | 1 ^h 12 ^m | |
| ✓59 | | 0.2 | | 5000 | 17:37 | | | 1 ^h 16 ^m | |
| ✓60 | | 0.3 | | 5800 | 19:14 | | | 1 ^h 17 ^m | |

Telescope: 6" 11

Frame prefix #: FR86E

Day of Week: Thur/Fri

RA offset:

Focus:

Humdty:

Sheet #: 5

Observers: DISANTI
SCHULTZ

Date MST/UT: May 8/9

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.) |
|-------|-----------------------|----------|-------------|-------------------|---------------|------------|-----------|--------------------------------|---|
| ✓061 | MKN 478 | 300 | 0,25 | 6400 | 9:34:30 | | | 2 ^h 42 ^m | |
| ✓062 | | | | 4600 | 47:58 | 14:41:33.5 | 35:27:38 | 2 ^h 50 ^m | azur AM=1.22 |
| ✓063 | | 360 | | 1900 | 55:23 | | | 2 ^h 56 ^m | computer died took 1 sec data. |
| ✓064 | SAD ⁶⁴²⁷⁸ | 5 | | 6800 | 10:10:39 | | | 3 ^h 14 ^m | |
| ✓065 | | 5 | | 7800 | 12:06 | 14:41:10.8 | 35:15:44 | 3 ^h 15 ^m | |
| ✓066 | | 9 | | 4600 | 13:18 | | | 3 ^h 16 ^m | |
| ✓067 | | 7 | 7 | 10600 | 15:29 | | | 3 ^h 18 ^m | |
| ✓068 | | 5 | | 7500 | 16:55 | | | 3 ^h 20 ^m | |
| ✓069 | SAD ¹²⁰²⁵¹ | 1 | | 6000 | 26:30 | | | 4 ^h 09 ^m | |
| ✓070 | | 1.2 | | 4300 | 27:59 | 14:01:50.4 | +9:43:11 | 4 ^h 10 ^m | |
| ✓071 | | | | 9700 | 29:51 | | | 4 ^h 12 ^m | |
| ✓072 | | | | 10800 | 31:24 | | | 4 ^h 13 ^m | |
| ✓073 | | | | 11500 | 32:38 | | | 4 ^h 15 ^m | |
| ✓074 | BS 5996 | 1.0 | | 8700 | 55:39 | 16:06:14 | -14:04:11 | 2 ^h 33 ^m | |
| ✓075 | | | | 7700 | 56:49 | | | 2 ^h 35 ^m | |

IRIS = 320

Telescope: 61"

Frame prefix #: F286E

Day of Week: Fri/Sat

RA offset:

Focus: 3560 Humdty: 40 Sheet #: 7

Observers: Fink Rohlf
Schultz

Date MST/UT: May 9/10

Dec offset:

Tailpiece: 17
Balance: N = 50 S = 50 ← all the way down
Temp O/I: 40/45

| 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.) |
|---------------|--------|----------|-------------|-------------------|---------------|------------|-----------|----------------------------------|--|
| 52,23 | | | | | | | | | |
| 57.44 | Halley | 30 | R | SAT | 3:25:17 | 10:36:31.7 | -12:32:29 | 0 ^h 35.5 ^m | Filled dewar 6:15 topped off dewar 7:30 |
| ✓ 083 | | 10 | R | SAT | 27:51 | 1:32.3 | -12:32:27 | 0 ^h 36 ^m | 1 pixel in center sat |
| 2 084 | | 5 | R | 9500 | 30:08 | | -12:32:24 | 0 ^h 40 ^m | |
| ✓ 085 | | 11 | V | 11300 | 31:58 | | -12:32:22 | 0 ^h 42 ^m | |
| ✓ 086 | | 15 | | SAT | 33:56 | | -12:32:20 | 0 ^h 44 ^m | |
| ✓ 087 | | 15 | | | 35:24 | 10:36:31.5 | -12:32:18 | 0 ^h 46 ^m | computer died reading out took 1 sec dark |
| ✓ 088 | | 45 | | | 41:36 | | -12:32:10 | 0 ^h 52 ^m | |
| ✓ 089 | | 10 | B | 7800 | 43:40 | | -12:32:08 | 0 ^h 54 ^m | |
| NEW 2 Tape | 090 | 30 | | | 45:42 | | -12:32:06 | 0 ^h 56 ^m | |
| 091 | | 1800 | 6300 | 3100 | 49:50 | 10:36:30 | -12:32:00 | 1 ^h 00 ^m | Temp 38/43 |
| 092 | | 71 | 7LT | 2200 | 54:19 | | -12:31:54 | 1 ^h 05 ^m | |
| 093 | | 600 | " | 5500 | 58:45 | 10:36:30 | -12:31:49 | 1 ^h 09 ^m | |
| 094 | | 1 | 6300 | 7400 | 41:02.2 | | -12:31:34 | 1 ^h 21 ^m | |
| 095 | | 180 | 6185 | SAT | 24:43 | 10:36:28.6 | -12:31:16 | 1 ^h 35 ^m | |
| 096 | | 60 | | 6800 | 29:34 | | -12:31:09 | 1 ^h 40 ^m | |

Telescope: 61"

Frame prefix #: FR86E Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 8

Observers: Fink Rohits
SCHULTZ

Date MST/UT: May 9/10

Dec offset:

Tailpiece: 17

Balance: 50

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.) |
|-------------|---------------|----------|-------------|------------------------|---------------|------------|-----------|----------------------------------|---|
| ✓ 097 | Halley | 180 | 6250 | 8100 | 4:32:17 | 10:36:28 | -12:31:06 | 1 ^h 43 ^m | |
| ✓ 098 | | 600 | | SAT | 36:49 | | -12:31:00 | 1 ^h 47 ^m | |
| ✓ 099 | | 11 | 6185 | | 48:29 | 10:36:27.5 | -12:30:45 | 1 ^h 59 ^m | |
| ✓ 100 | | 600 | 4565 | SAT | 5:02:54 | | -12:30:26 | 2 ^h 13.5 ^m | |
| ✓ 101 | | 5 | I | 6700 | 17:53 | | -12:30:05 | 2 ^h 28.5 ^m | Focus 3500 |
| ✓ 102 | | 15 | | SAT | 19:15 | 10:36:26.7 | -12:30:04 | 2 ^h 30 ^m | |
| ✓ 103 | | 120 | 9180 | 6200 | 5:23:10 | | -12:29:59 | 2 ^h 34 ^m | |
| ✓ 104 | DARK | 1 | N/A | | | | | | |
| 83.22 ✓ 105 | | 1 | N/A | | | | | | |
| 84.13 ✓ 106 | LAN 84 334 | 2 | I | 6300 700 | 6:01:03 | | | 2 ^h 08 ^m | Topped off dewar 11:15 |
| ✓ 107 | | 3 | II | 7351 | 06:21 | 16:16:09.8 | 14:42:29 | 2 ^h 02.5 ^m | |
| ✓ 108 | | 3 | II | 9868 750 | 08:16 | | | 2 ^h 00.8 ^m | |
| ✓ 109 | | 2 | R | 7300 700 | 32:14 | | | 1 ^h 56.5 | Focus 3560 |
| ✓ 110 | | " | II | 7548 | 33:57 | | | 1 ^h 55 ^m | |
| ✓ 111 | | " | V | 6141 | 35:16 | | | 1 ^h 53.5 ^m | |

Telescope: 61"

Frame prefix #: FR86E

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 9

Observers: Fink Rohlf's
Schultz

Date MST/UT: May 9/10

Dec offset:

Tailpiece:

Balance:

Temp O/I:

9

| 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.) |
|---------------------|------------------------------------|----------|-------------|-------------------------|---------------|------------|----------|----------------------------------|---|
| ✓ 112 | LAN ⁸⁴ / ₃₃₄ | 3 | ✓ | 7378 | 6:36:52 | | | 1 ^h 52 ^m | |
| ✓ 113 | | 6 | B | 5373 | 38:27 | 16:16:11.0 | 14:42:32 | 1 ^h 50 ^m | |
| ✓ 114 | | 10 | | 7700 715 | 40:10 | | | 1 ^h 48.5 ^m | |
| new tape → ✓ 115 | Kop #27 | 120 | 6300 | 4300 | 48:30 | | | 3 ^h 07 ^m | |
| ✓ 116 | | 11 | | 5200 | 52:36 | 17:43:12.5 | 5:23:47 | 3 ^h 03 ^m | |
| ✓ 117 | | 11 | TLT | 4682 | 57:19 | | | 2 ^h 58 ^m | |
| ✓ 118 | | 11 | TLT | 5632 1723 | 7:00:32 | | | 2 ^h 55 ^m | |
| ✓ 119 | | 10 | 6185 | 5400 | 08:58 | | | 2 ^h 47 ^m | 1.48 |
| ✓ 120 | | 15 | | 7300 | 10:32 | | | 2 ^h 45 ^m | 1.47 |
| ✓ 121 | | 30 | 6250 | 6750 | 12:19 | | | 2 ^h 43.5 ^m | 1.46 |
| ✓ 122 | | | | 7221 700 | 14:05 | | | 2 ^h 42 ^m | 1.45 |
| ✓ 123 | | 10 | 9180 | | 16:29 | | | 2 ^h 39 ^m | |
| ✓ 124 | | 30 | | 3249 | 18:26 | | | 2 ^h 37 ^m | |
| ✓ 125 | | 30 | 4565 | 8536 | 23:43 | | | 2 ^h 32 ^m | |
| ✓ 126 | | 11 | | 7521 | 25:23 | | | 2 ^h 30.5 ^m | |

Telescope: 61"

Frame prefix #: F-R86E

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 10

Observers: Fink Rohlf's
SCHULTZ

Date MST/UT: May 9/10

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.) |
|------------|------------------------|----------|-------------|-------------------|---------------|------------|----------|----------------------------------|---|
| ✓127 | Keop flg ²⁷ | 1S | H2 | 6600 | 7:30:45 | 17:43:12.9 | 5:23:47 | 2 ^h 25 ^m | |
| ✓128 | | | | 7116 | 32:11 | | | 2 ^h 23.5 ^m | |
| ✓129 | | 0.8 | R | 11000 | 34:26 | | | 2 ^h 21 ^m | |
| ✓130 | | 0.6 | | 6700 | 35:50 | | | 2 ^h 20 ^m | |
| ✓131 | | 1.0 | B | 6600 | 37:25 | | | 2 ^h 18 ^m | |
| ✓132 | | | | 7400 | 38:44 | | | 2 ^h 17 ^m | |
| 20.57 ✓133 | DRF-1 | 300 | R | | 8:15:41 | 16:54:38.0 | 61:19:13 | 0 ^h 51 ^m | FOCUS 3710 3 arc, time west, 1'20" south |
| 25.78 ✓134 | | 1200 | H2 | | 24:41 | | | 0 ^h 42 ^m | |
| ✓135 | | 600 | B | | 49:55 | | | 0 ^h 17 ^m | |
| ✓136 | | 1200 | B | | 9:03:04 | | | 0 ^h 04 ^m | |
| ✓137 | | 600 | R | | 25:20 | | | 0 ^h 18.5 ^m | |
| ✓138 | | 1200 | H2 | | 37:14 | | | 0 ^h 30.5 ^m | |
| ✓139 | DRF-7 | " | " | | 10:03:57 | 16:47:30 | 60:21:03 | 1 ^h 04.5 ^m | |
| ✓140 | | 1200 | B | | 26:38 | | | 1 ^h 27 ^m | |
| ✓141 | | 600 | R | | 49:11 | | | 1 ^h 50 ^m | |

Telescope:

61"

Frame prefix #: FR86E

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: (11)

Observers: Fink
Schultz

Date MST/UT: May 9/10

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.) |
|-------|------------|----------|-------------|-------------------|---------------|--------|---------|--------------------------------|---|
| ✓142 | DEF-7 | 1200 | H2 | | 11:02:56 | | | 2 ^h 04 ^m | |
| ✓143 | Flat Field | 6 | H2 | 10000 | | | | | |
| ✓144 | | 6 | H2 | | | | | | |
| ✓145 | | 0.25 | R | 8300 | | | | | |
| ✓146 | | " | " | 8400 | | | | | |
| ✓147 | | 0.2 | I | 10700 | | | | | |
| ✓148 | | 0.18 | | 94200 | | | | | |
| ✓149 | | 2.0 | B | 8700 | | | | | |
| ✓150 | | | | 8600 | | | | | |
| ✓151 | | 60 | 6300 | 8600 | | | | | |
| ✓152 | | " | " | 8600 | | | | | |
| ✓153 | | " | T.L.T | 7400 | | | | | |
| ✓154 | | " | T.L.T | 7300 | | | | | |
| ✓155 | | 40 | 4565 | 6400 | | | | | |
| ✓156 | | 60 | " | 9400 | | | | | |

Telescope:

Frame prefix #: FR86E Day of Week: Sat/Sun

RA offset:

Focus: 3960 Humdty: 34 Sheet #: (13)

Observers: Fink Rohlf
Schultz Date MST/UT: May 10/11

Dec offset:

Tailpiece: 17
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.) |
|----------------|--------|----------|-------------|---------------------|------------------|-----------------------|----------------------|--|---|
| ✓ 165 | Halley | 5 | R | $\frac{6844}{1200}$ | 3:00:31 | 10:35:14.0 | -12:05:44 | 0 ^h 16 ^m | Filled dewar 6:25 topped off dewar 7:40 |
| ✓ 166 | | 6 | | $\frac{9100}{1200}$ | 02:53 | | 05:40 | 0 ^h 18 ^m | |
| ✓ 167 | | 25 | | | 04:46 | 10:35:13 | 05:38 | 0 ^h 20 ^m | |
| ✓ 168 | | 11 | | | 06:52 | 10:35:17.3 | -12:05:37 | 0 ^h 22 ^m | moved telescope east |
| ✓ 169 | | 8 | V | $\frac{9800}{1200}$ | 10:44 | | 05:31 | 0 ^h 26 ^m | |
| ✓ 170 | | 25 | | | 12:08 | 10:35:16 | -12:05:31 | 0 ^h 27.5 ^m | |
| ✓ 171 | | 16 | B | $\frac{7000}{1200}$ | 14:05 | | 05:28 | 0 ^h 29.5 ^m | |
| ✓ 172 | | 50 | | | 15:55 | | 05:26 | 0 ^h 31.5 ^m | |
| ✓ 173 | | 600 | 6300 | $\frac{4900}{1200}$ | 22:04 | 10:35:15.8 | -12:05:19 | 0 ^h 37.6 ^m | Temp 48/52 |
| 174 | | | TLT | | 34:21 | 10:35:15.3 | -12:05:05 | 0^h50^m | lost-computer died-static |
| ✓ 175 | | 600 | TLT | 3900 | 49:15 | 10:35:15.0 | -12:04:48 | 1 ^h 05 ^m | |
| ✓ 175 | | 600 | TLT | $\frac{3750}{1200}$ | 4:01:16 | 10:35:13.5 | -12:04:34 | 1 ^h 17 ^m | |
| ✓ 176 | | 600 | 6300 | $\frac{4750}{1200}$ | 13:09 | 10:35:14.0 | -12:04:20 | 1 ^h 29 ^m | |
| ✓ 177 | | 120 | 6185 | $\frac{7500}{1200}$ | 27:06 | 10:35:12.3 | -12:04:04 | 1 ^h 43 ^m | |
| ✓ 178 | | 300 | 6250 | $\frac{7260}{1200}$ | 30:39 | | -12:04:00 | 1 ^h 46 ^m | |

Telescope: 61"

Frame prefix #: FR86E

Day of Week: Sat/Sun

RA offset:

Focus: 3950

Humdty:

Sheet #: 14

Observers: Fink Rohlf
Schultz

Date MST/UT: May 10/11

Dec offset:

Tailpiece: 17

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.) |
|-------|------------|----------|-----------------|-------------------|--------------------|------------|-----------|----------------------------------|---|
| ✓179 | Halley | 600 | 6185 | 13900 | 4:37:55 | 10:35:13.0 | -12:03:51 | 1 ^h 54 ^m | little slipped (no tail) |
| ✓180 | | 160 | 9180 | 5900 | 5:14:40 | 10:35:11.2 | -12:03:35 | 2 ^h 07.5 ^m | Focus 3950 → 3890 |
| ✓181 | | 180 | 8600 | 8950 | 5:10:9 | | -12:03:30 | 2 ^h 12 ^m | |
| ✓182 | | 8 | I | 7400 | 5:02:14 | | -12:03:22 | 2 ^h 18 ^m | |
| ✓183 | | 25 | | sat | 03:56 | 10:35:11.8 | -12:03:20 | 2 ^h 20 ^m | |
| 184 | | 120 | 5980 | 4100 | 5:10:03 | | -12:03:13 | 2 ^h 26 ^m | 2 out of focus |
| 185 | | 300 | 5130 | 9000 | 13:30 | | -12:03:07 | 2 ^h 29.5 ^m | 3 |
| 186 | | 120 | 5139 | 8800 | 2:11:17 | 10:35:11 | -12:02:57 | 2 ^h 37 ^m | Focus 3950 |
| 187 | | 300 | 4565 | 4700 | 25:16 | 10:35:10 | -12:02:51 | 2 ^h 41 ^m | |
| 188 | | 300 | 4060 | 1600 | 33:08 | | -12:02:41 | 2 ^h 49 ^m | |
| 189 | LAN 84 334 | 1.3 | R | 5600 | 6:04:09 | 16:16:11.3 | 14:42:36 | 2 ^h 24 ^m | tapped off dewar 10:50 |
| 190 | | 1.6 | | 9800 | 02:32 | | | 2 ^h 22.5 ^m | |
| 191 | | 1.6 | V | 8560 | 04:30 | | | 2 ^h 20.5 ^m | |
| 192 | | 1.3 | | 7800 | 07:22 | | | 2 ^h 17.5 ^m | |
| 193 | | 5 | B | 7000 | 10:59 | | | 2 ^h 14 ^m | |

Telescope: 61"

Frame prefix #: FR86E

Day of Week: Sat/Sun

RA offset:

Focus: 3950

Humdty:

Sheet #: 15

Observers: Fink Rohlf
Schultz

Date MST/UT: May 10/11

Dec offset:

Tailpiece: 17

Balance:

Temp O/I:

15

| 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.) |
|-------|---------------|----------|-------------|-------------------|---------------|-----------|---------|----------------------------------|---|
| ✓ 194 | LAM 84 334 | 5 | B | 7400 | 6:12:12 | | | 2 ^h 13 ^m | |
| ✓ 195 | | 2.5 | I | 9600 | 15:37 | | | 2 ^h 09 ^m | |
| ✓ 196 | | | | 8600 | 16:45 | | | 2 ^h 08 ^m | |
| ✓ 197 | Dwrz | 1 | N/A | | | | | | |
| ✓ 198 | Dwrz | 1 | N/A | | | | | | |
| ✓ 199 | Kep 27 | 120 | 6300 | 6600 | 7:01:03 | 17:13:12S | 5:23:47 | 2 ^h 50.5 ^m | |
| ✓ 200 | | | | 6300 | 04:21 | | | 2 ^h 47.5 ^m | |
| ✓ 201 | | | TLT | 8400 | 07:37 | | | 2 ^h 44 ^m | |
| ✓ 202 | | | TLT | 7600 | 10:52 | | | 2 ^h 41 ^m | |
| ✓ 203 | | 10 | 6185 | 7000 | 16:01 | | | 2 ^h 36 ^m | |
| ✓ 204 | | | | 8600 | 17:25 | | | 2 ^h 34.5 ^m | |
| ✓ 205 | | 20 | 6250 | 7100 | 27:07 | | | 2 ^h 31 ^m | |
| ✓ 206 | | | | 9000 | 22:32 | | | 2 ^h 29 ^m | |
| ✓ 207 | | 20 | 8600 | 4600 | 26:46 | | | 2 ^h 25 ^m | |
| ✓ 208 | | 20 | | 5200 | 28:34 | | | 2 ^h 23 ^m | |

Telescope: 61"

Frame prefix #: FR66E

Day of Week: Sat/Sun

RA offset: 35 W

Focus: 3950 Humdty:

Sheet #: 16

Observers: Fink Rohlf
Schultz

Date MST/UT: May 10/11

Dec offset: 1'20" S

Tailpiece: 17

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.) |
|-------|---------|----------|-------------|-------------------|---------------|------------|----------|----------------------------------|---|
| ✓209 | Kopt 22 | 30 | 9160 | 3600 | 7:30:22 | 17:43:12.9 | 5:23:47 | 2 ^h 21 ^m | |
| ✓210 | | | | 4100 | 32:06 | | | 2 ^h 20 ^m | |
| ✓211 | | 10 | 5980 | 8700 | 35:41 | | | 2 ^h 16 ^m | |
| ✓212 | | | | 8400 | 37:00 | | | 2 ^h 15 ^m | |
| ✓213 | | 5 | 5139 | 6900 | 38:48 | | | 2 ^h 13 ^m | |
| ✓214 | | | | 6400 | 40:04 | | | 2 ^h 12 ^m | |
| ✓215 | | 18 | 4565 | 7600 | 46:02 | | | 2 ^h 05 ^m | |
| ✓216 | | | | 6200 | 47:33 | | | 2 ^h 04 ^m | |
| ✓217 | | 20 | 4060 | 3500 | 49:14 | | | 2 ^h 02.5 ^m | |
| ✓218 | | 30 | | 4300 | 50:51 | | | 2 ^h 01 ^m | |
| ✓219 | | 10 | #2 | 5000 | 54:03 | | | 1 ^h 58 ^m | |
| ✓220 | | 15 | | 7100 | 55:32 | | | 1 ^h 56 ^m | |
| ✓221 | DRF-2 | 600 | R | | 8:01:54 | 16:58:33.6 | 61:29:05 | 1 ^h 02 ^m | Offset 11 19'20" South 3sec time west |
| ✓222 | " | 1200 | H2 | 900 | 17:25 | " | " | 0.49 ^m E | |
| ✓223 | " | " | B | 2200 | 31:16 | " | " | | |

Telescope: 61"

Frame prefix #: FR86E

Day of Week: SAT/SUN

RA offset:

Focus:

Humdty:

Sheet #: 17

Observers: Fink Rohlf's
Schultz

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

17

| 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.) |
|-------|------------------|----------|----------------|-------------------|---------------|-----------------------|-----------|--------------------------------|---|
| ✓224 | DRF-2 | 1200 | B | 2200 | 9:04:21 | " | " | 0:02 W | |
| ✓225 | " | " | H _α | 900 | 27:38 | " | " | 0:21W | |
| ✓226 | " | 600 | R | | 10:21 | " | " | 0:23W | |
| ✓227 | DRF-4 | 1200 | H _α | | 3:07:30 | 16 ^h 57:24 | 60°52'18" | 1:08W | |
| ✓228 | | 600 | R | | 10:29:59 | | | 1 ^h 31 ^m | |
| ✓229 | | 1200 | B | 2300 | 42:41 | | | 1 ^h 43 ^m | |
| ✓230 | | 1200 | H _α | 1200 | 11:05:32 | | | 2 ^h 06 ^m | |
| ✓231 | D ₆₉₇ | 1 | N/A | 670 | | | | | |
| ✓232 | D ₆₇₂ | 1 | N/A | 660 | | | | | |
| ✓233 | Flat Field | 2.5 | 8600 | 9400 | | | | | Filled down 4:35 AM. |
| ✓234 | | 2.5 | | 9500 | | | | | |
| ✓235 | | 4 | 9180 | 9700 | | | | | |
| ✓236 | | " | " | 9900 | | | | | |
| ✓237 | | 8 | 5980 | 9000 | | | | | |
| ✓238 | | | | 9140 | | | | | |

IRIS = 370

Telescope:

Frame prefix #: VFR86E

Day of Week: Sun/Mon

RA offset:

Focus: 3970

Humidity: 32

Sheet #:

19

Observers:

Fink Rohlf
Schultz

Date MST/UT: May 11/12

Dec offset:

1^m S
20^s South

Tailpiece:

Balance:

Temp O/I: 49/53

| 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.) |
|-------|--------|-----------------|-------------|---------------------|--------------------|------------|----------------------|--|--|
| 244 | Halley | 5 | R | 56 | 2:55:00 | | -11:39:56 | 0 ^h 15 ^m | Filled degas 6:15 P.M. Tapped off dewar 7:30 |
| ✓ 241 | | 2.0 | R | $\frac{6100}{1200}$ | 2:57:01 | 10:34:06 | -11:39:53 | 0 ^h 17 ^m 5 | High cirrus |
| ✓ 245 | | 8 | B | $\frac{6350}{1400}$ | 3:08:18 | | -11:39:49 | 0 ^h 28 ^m | |
| ✓ 246 | | 5 | R | $\frac{6700}{923}$ | 3:18:13 | | -11:39:31 | 0 ^h 39 ^m | |
| ✓ 247 | | 30 | R | $\frac{SAT}{1400}$ | 20:07 | | -11:39:29 | 0 ^h 40 ^m 5 | |
| ✓ 248 | | 100 | R | SAT | 22:24 | 10:34:05.6 | -11:39:25 | 0 ^h 43 ^m | Tail showing |
| ✓ 249 | | 5 | R | $\frac{12000}{900}$ | 25:53 | | -11:39:22 | 0 ^h 46 ^m 5 | |
| ✓ 250 | | 60 | 6185 | 5700 | 30:46 | | -11:39:17 | 0 ^h 51 ^m | |
| ✓ 251 | | 300 | | | 33:55 | | -11:39:13 | 0 ^h 54 ^m 5 | |
| ✓ 252 | | 600 | | | 40:54 | 10:34:04.8 | -11:39:05 | 1 ^h 01 ^m 5 | computer died took 1 sec DanZ |
| ✓ 253 | | 1200 | | | 3:57:57 | | -11:38:47 | 1^h19^m | |
| ✓ 254 | | 600 | | | 4:11:42 | 10:34:03.6 | -11:38:32 | 1 ^h 32 ^m 5 | 2/3 of exposure is good |
| ✓ 254 | | 1200 | | | 23:31 | | -11:38:18 | 1 ^h 44 ^m 3 | 2/3 of exposure good |
| ✓ 255 | | 1200 | | | 46:03 | 10:34:2.1 | -11:37:52 | 2 ^h 07 ^m | computer died - 1 sec DanZ 1/2 of exposure good |
| ✓ 256 | | 1200 | | | 5:14:23 | | -11:37:19 | 2 ^h 35 ^m 5 | |

Telescope:

High Cirrus

Frame prefix #: FR86E Day of Week: Mon/Tue

RA offset: 3" west Focus: 3950 Humdty: 32 Sheet #: 21

Observers: Fink DISANTI Date MST/UT: May 12/13
Rohlf's Schultz

Dec offset: 1' 20" south Balance: Temp O/I: 48/52

21

| 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.) |
|---------------|--------|----------|-------------|-------------------|---------------|------------|-----------|-----------------------------------|---|
| ✓263 | Halley | 600 | 6185 | | 3:09:48 | 10:33:00.6 | -11:15:13 | 0:35 W | Filled dewar 6:15 AM, topped off dewar 7:40 |
| ✓264 | | 180 | | | 22:50 | | -11:15:00 | 0 ^h 48 ^m .5 | computer died took 1 sec in 5 min exp total |
| ✓265 | | 180 | | 11600 | 30:56 | | -11:14:52 | 0 ^h 56.5 | |
| ✓266 | | 900 | | | 36:06 | | | 1 ^h 02 ^m | |
| ✓267 | | 5 | R | 6600 | 54:19 | | -11:14:29 | 1 ^h 20 ^m | |
| ✓268 | | 25 | | | 56:00 | 10:33:00 | -11:14:26 | 1 ^h 22 ^m | |
| ✓269 | | 60 | | | 58:03 | | -11:14:24 | 1 ^h 24 ^m | |
| ✓270 | | B | 15 | 8700 | 4:00:48 | | -11:14:22 | 1 ^h 26.5 ^m | |
| ✓271 | | 50 | B | | 02:56 | | -11:14:19 | 1 ^h 29 ^m | |
| ✓272 | | | V | 8300 | 07:50 | | -11:14:17 | 1 ^h 34 ^m | |
| new tape ✓273 | | 30 | | | 09:28 | | -11:14:12 | 1 ^h 35 ^m | |
| ✓274 | | 900 | 6185 | | 13:09 | | -11:14:08 | 1 ^h 39 ^m | |
| ✓275 | | 1200 | 4565 | | 32:48 | 10:32:57.3 | -11:13:47 | 1 ^h 59 ^m | shows tail structure in |
| ✓276 | | 900 | 6185 | | 56:12 | 10:32:56.8 | -11:13:21 | 2 ^h 22 ^m | #6250 image - filter slipped |
| ✓277 | | 900 | 6180 | | 5:14:21 | | -11:13:01 | 2 ^h 40.5 ^m | |

NOT PHOTO METRIC

809358 Megabytes
log 86e21.tif

Telescope: 61"

Frame prefix #: FR86E

Day of Week: Mon/Tue

RA offset:

Focus: 3943

Humdty:

Sheet #: 22

Observers: Fink DISANTI

Date MST/UT: May 12/13

Dec offset:

Tailpiece: 17

Balance:

Temp O/I:

Rohlf's Schultz

| 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.) |
|-------|------------|----------|-----------------|-------------------|---------------|------------|----------|-----------------------------------|---|
| ✓278 | LAN 84 334 | 2 | R | 7000 | 5:46:38 | 16:16:10.9 | 14:42:29 | 2 ^h 36 ^m | |
| ✓279 | | | | 6600 | 42:22 | | | 2 ^h 35 ^m | |
| ✓280 | | 2 | V | 8400 | 45:27 | | | 2 ^h 32 ^m | |
| ✓281 | | | | 8450 | 46:42 | | | 2 ^h 30 ^m .5 | |
| ✓282 | | 5 | B | 9000 | 48:16 | | | 2 ^h 29 ^m | |
| ✓283 | | | | 8700 | 49:31 | | | 2 ^h 27 ^m .5 | |
| ✓284 | Danz | 1 | N/A | | | | | | |
| ✓285 | Danz | 1 | N/A | | | | | | |
| ✓285 | Kopf 27 | 12 | 4565 | 7000 | 6:45:54 | 17:43:13.0 | 5:23:47 | 2 ^h 58 ^m | 6185 |
| ✓286 | | | | 8300 | 49:15 | | | 2 ^h 55 ^m | |
| ✓287 | | 20 | 6250 | 5400 | 51:20 | | | 2 ^h 53 ^m | |
| ✓288 | | | | 8500 | 52:56 | | | 2 ^h 51 ^m | |
| ✓289 | | 20 | 4565 | 9300 | 57:19 | | | 2 ^h 45 ^m | |
| ✓290 | | | | 9000 | 7:00:45 | | | 2 ^h 43 ^m | |
| ✓291 | | 20 | Hd | 5300 | 07:02 | | | 2 ^h 37 ^m | |

804358 meg
bytes
log 86c 22.tif

Telescope: 61"

Frame prefix #: FR56E Day of Week: Mon/Tue

RA offset:

Focus:

Humdty:

Sheet #: 23

Observers: Fink Rwhfs Date MST/UT:

Dec offset:

Tailpiece:

Temp O/I:

DISANTI SCHULTZ

| 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.) |
|---------------|------------------|-----------------|-------------|-------------------|---------------------|------------|-----------|---|---|
| ✓292 | Kopff 27 | 30 | Hd | 9200 | 7:09:03 | | | 2 ^h 35 ^m | |
| ✓293 | DRF-5 | 1200 | B | | 31:00:00 | 16:23:00 | 61:31:20 | | Topped off dewar 12:00 |
| ✓294 | DRF-5 | 1200 | | 2200 | 38:02 | 16:50:47 | 60:55:43 | 1 ^h 13 ^m 5 ^s | |
| ✓295 | " | " | Hd | 800 | 8:00:10 | | | 0 ^h 51 ^m | |
| ✓296 | " | 600 | R | 3000 | 8:22:40 | | | 0:29E | |
| ✓297 | LAN 8/24 | 2 | " | 7500 | 8:40:35 | 16:16:10.0 | +14:42:29 | 0:24W | |
| ✓298 | " | " | " | 8500 | 43:37 | | | 0:27 | |
| ✓299 | " | 5 | B | 9500 | 45:47 | | | 0:29 | |
| ✓300 | " | " | " | 8900 | 47:13 | | | 0:30.5 | |
| ✓301 | DRF-5 | 1200 | " | 2200 | 8:53:47 | 16:50:47 | +60:55:43 | 0:03W | |
| ✓302 | " | " | Hd | 865 | 9:17:29 | | | 0:26W | |
| ✓303 | " | 600 | R | 3100 | 39:47 | | | 0:48.5 | |
| ✓304 | DRF-15 | 600 | " | 3100 | 55:10 | 16:46:44.6 | +60:21:04 | 1:08W | |
| New Tape ✓305 | " | 1200 | Hd | 900 | 10:08:19 | | | 1:21 | |
| ✓306 | " | " | B | 2300 | 31:05 | | | 1:44 | |

809358 megabytes
log56e23.tif.

