

# OBSERVING LOG

**TELESCOPE** : DuPont  
**INSTRUMENT** : WFCCD  
**CONFIGURATION** : TYPHOON  
**OBSERVER** : JR  
**NIGHT ASSISTANT**: Herman

**DATE** : November 02/03 2018  
**NIGHT**: 4 of 14  
**PAGE** : 1 of 4  
**WEATHER**: clear

| File      | Object      | UTstart | Expsec   | Filter | Airmass | Aper  | Seeing | Comments                                    |
|-----------|-------------|---------|----------|--------|---------|-------|--------|---|
| 4001-4003 | dflat       | 18:40   | 3x4s     | B      | dflat   | open  | -      | Lamp @ 480V, <18k                           |
| 4004-4006 | "           | 18:45   | 3x4      | V      | "       | "     | -      | Lamp @ 390V, <16k                           |
| 4007-4009 | "           | 18:50   | 3x3      | R      | "       | "     | -      | Lamp @ 350V, ~22k                           |
| 4010-4012 | "           | 18:54   | 3x80     | grism  | "       | 150um | -      | Lamp @ 480V, ~34k peak                      |
| 4013-4015 | "           | 19:03   | 3x20     | "      | "       | 750um | -      | Lamp @ 480V, ~32k peak                      |
| 4016-4018 | Hartmann    | 19:09   | 3x50     | grism  | "       | Hart  | -      | Lamp @ 480V, ~40k peak                      |
| 4019      | "           | 19:16   | 4        | V      | "       | "     | -      | Lamp @ 350V                                 |
| 4020-4022 | HeNeAr arc  | 19:18   | 30/60/90 | grism  | "       | 150um | -      | HeNeAr for flats                            |
| 4023-4030 | Bias        | 19:50   | 8x0      | -      | "       | -     | -      | Bias  |
| 4031      | Slit image  | 20:00   | 1        | V      | zenith  | 150um | -      | y2000:1422.0,2643.0                         |
| 4032      | "           | 20:02   | "        | "      | "       | 750um | -      | y2200:1434.5, 2630.5                        |
| 4033-4037 | dark        | 20:06   | 5x600    | -      | "       | -     | -      |   |
| 4038      | LTT 9239    | 23:44   | 3        | V      | 1.044   | open  | 1.4"   | 3"E   |
| 4039      | "           | 23:47   | "        | "      | 1.041   | "     | 1.6"   |   |
| 4040      | "           | 23:50   | "        | "      | 1.038   | 750um |        |   |
| 4041      | LTT 9239    | 23:53   | 180      | grism  | 1.036   | "     |        |   |
| 4042      | HeNeAr arc  | 23:57   | 30       | "      | 1.032   | 150um |        |   |
| 4043      | NGC 253     | 00:02   | 20       | V      | 1.233   | open  | 2"!    | cass=144.5, match 3071, 4.7"E, 25.7"N       |
| 4044      | "           | 00:08   | "        | "      | 1.212   | "     | 1.7"   | Seeing poor                                 |
| 4045      | "           | 00:12   | "        | "      | 1.200   | "     | 1.8"   | Seeing not improving                        |
| 4046      | "           | 00:18   | "        | "      | 1.179   | "     | 1.7"   | Seeing still poor, switch to SN/TDE sources |
| 4047      | ASASSN-18yo | 00:28   | 20       | V      | 1.355   | open  | 1.7"   | @1678, 1985, Cass=180                       |
| 4048      | "           | 00:33   | "        | "      | 1.370   | "     | 1.8"   | 19.4"W                                      |
| 4049      | "           | 00:35   | "        | "      | 1.39    | "     |        | 0.6"W                                       |
| 4050      | "           | 00:38   | 10       | "      | 1.394   | "     |        | 0.5"W                                       |

# OBSERVING LOG

**TELESCOPE** : DuPont  
**INSTRUMENT** : WFCCD  
**CONFIGURATION** : TYPHOON  
**OBSERVER** : JR  
**NIGHT ASSISTANT**: Herman

**DATE** : November 02/03 2018  
**NIGHT**: 4 of 14  
**PAGE** : 2 of 4  
**WEATHER**: clear

| File      | Object        | UTstart | Expsec | Filter | Airmass | Aper  | Seeing | Comments                              |
|-----------|---------------|---------|--------|--------|---------|-------|--------|---------------------------------------|
| 4051      | ASASSN-18yo   | 00:41   | 10     | V      | 1.403   | 150um |        | OK!                                   |
| 4052-4054 | "             | 00:43   | 3x900s | grism  | 1.413   | "     |        |                                       |
| 4055      | 2018hsa       | 01:34   | 20     | V      | 1.195   | open  | 1.6"   | @1662, 1992, 116"W, 101"S             |
| 4056      | "             | 01:38   | "      | "      | 1.203   | "     | 1.7"   | 1"W                                   |
| 4057      | "             | 01:41   | "      | "      | 1.210   | "     | 1.8"   |                                       |
| 4058      | "             | 01:43   | 10     | "      | 1.216   | 150um |        |                                       |
| 4059-4061 | 2018hsa       | 01:46   | 3x450s | grism  | 1.222   | "     |        |                                       |
| 4062      | HeNeAr arc    | 02:13   | 30     | "      | 1.303   | "     |        |                                       |
| 4063      | NGC 253       | 02:18   | 20     | V      | 1.007   | open  | 1.4"   | Cass=144.5, check seeing, ok, refocus |
| 4064      | NGC 253 focus | 02:22   | 3      | V      | 1.006   | open  |        | #7 is 1.2", still getting better      |
| 4065      | "             | 02:27   | "      | "      | 1.004   | "     |        | #1, <1.2"                             |
| 4066      | NGC 253       | 02:32   | 20     | "      | 1.003   | "     |        | Match 3071, 2.4W, 18.1S               |
| 4067      | "             | 02:35   | "      | "      | 1.003   | "     | 1.2"   | 0.1"E, 1.4"S                          |
| 4068      | "             | 02:37   | "      | "      | 1.003   | "     |        | OK go                                 |
| 4069      | NGC 253       | 02:40   | 600    | grism  | 1.002   | 150um |        | 541.2 856.4, L->R -10.3               |
| 4070      | "             | 02:52   | "      | "      | 1.003   | "     |        | 846.1                                 |
| 4071      | "             | 03:03   | "      | "      | 1.006   | "     |        | 835.8                                 |
| 4072      | "             | 03:15   | "      | "      | 1.011   | "     | ~1"    | 825.5                                 |
| 4073      | "             | 03:27   | "      | "      | 1.018   | "     |        | 815.2                                 |
| 4074      | "             | 03:38   | "      | "      | 1.026   | "     |        | 804.9                                 |
| 4075      | "             | 03:50   | "      | "      | 1.038   | "     |        | 794.6                                 |
| 4076      | "             | 04:01   | "      | "      | 1.051   | "     |        | 784.3                                 |
| 4077      | "             | 04:13   | "      | "      | 1.068   | "     |        | 774.0                                 |
| 4078      | "             | 04:24   | "      | "      | 1.088   | "     |        | 763.7                                 |
| 4079      | NGC 253       | 04:36   | Open   | "      | 1.110   | "     | 1.3"   | 753.4                                 |

# OBSERVING LOG

**TELESCOPE** : DuPont  
**INSTRUMENT** : WFCCD  
**CONFIGURATION** : TYPHOON  
**OBSERVER** : JR  
**NIGHT ASSISTANT**: Herman

**DATE** : November 02/03 2018  
**NIGHT**: 4 of 14  
**PAGE** : 3 of 4  
**WEATHER**: clear

| File | Object      | UTstart | Expsec | Filter | Airmass | Aper  | Seeing | Comments                       |
|------|-------------|---------|--------|--------|---------|-------|--------|--------------------------------|
| 4080 | LTT 2511    | 04:41   | 3      | V      | 1.443   | Open  |        | cass=180, 1.9"E, 4.9"S         |
| 4081 | "           | 04:43   | "      | "      | 1.436   | "     | 1.4"   |                                |
| 4082 | "           | 04:45   | "      | "      | 1.427   | 750um |        |                                |
| 4083 | LTT 2511    | 04:47   | 300    | grism  | 1.423   | "     |        | Standard                       |
| 4084 | HeNeAr arc  | 04:54   | 30     | grism  | 1.404   | 150um |        |                                |
| 4085 | AM 0644-741 | 04:57   | 20     | V      | 1.648   | open  | 1.4"   | LS Ring, Match 3094, 13.5W, 4S |
| 4086 | "           | 04:59   | "      | "      | 1.647   | "     |        |                                |
| 4087 | "           | 05:01   | "      | "      | 1.641   | "     |        |                                |
| 4088 | AM 0644-741 | 05:04   | 600    | grism  | 1.641   | 150um | 1.35"  | 528.3, 872.4 L->R (-10.3)      |
| 4089 | "           | 05:16   | "      | "      | 1.635   | "     |        | 862.1                          |
| 4090 | "           | 05:28   | "      | "      | 1.611   | "     |        | 851.8                          |
| 4091 | "           | 05:39   | "      | "      | 1.562   | "     |        | 841.5                          |
| 4092 | "           | 05:51   | "      | "      | 1.543   | "     | ~1.3   | 831.2                          |
| 4093 | "           | 06:02   | "      | "      | 1.529   | "     |        | 820.9                          |
| 4094 | "           | 06:14   | "      | "      | 1.509   | "     |        | 810.6                          |
| 4095 | "           | 06:25   | "      | "      | 1.494   | "     |        | 800.3                          |
| 4096 | "           | 06:37   | "      | "      | 1.483   | "     |        | 790.0                          |
| 4097 | "           | 06:49   | "      | "      | 1.468   | "     |        | 779.7                          |
| 4098 | "           | 07:00   | "      | "      | 1.457   | "     |        | 769.4                          |
| 4099 | "           | 07:11   | "      | "      | 1.447   | "     | 1.3"   | 759.1                          |
| 4100 | "           | 07:23   | "      | "      | 1.439   | "     |        | 748.8                          |
| 4101 | "           | 07:35   | "      | "      | 1.433   | "     | 1.6"   | 738.5 seeing worse/variable    |
| 4102 | "           | 07:46   | "      | "      | 1.426   | "     |        | 728.2                          |
| 4103 | "           | 07:58   | "      | "      | 1.422   | "     | 1.3"   | 717.9                          |
| 4104 | "           | 08:09   | "      | "      | 1.420   | "     |        | 707.6                          |

