

UT Date 2019-12-22 Observers JDavisColl. Focus 1540 Grating/Grism 1200

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|------|------|------|----------------|-----|----------|
| 0001-0003.DARK | 900 | 23:47 | 10:30:00.4 | -23:48:03 | 300 | 87 | 1.5 | 0 Calibration | 2 | |
| 0004-0006.DARK | 900 | 00:37 | 10:30:00.4 | -23:48:03 | 1200 | 87 | 1.5 | 0 Calibration | 2 | |
| 0007-0016.FLAT | 14 | 01:06 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0017-0026.BIAS | 0 | 01:09 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0027.fastfoc | 12 | 01:10 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0028.fastfoc | 12 | 01:11 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0029.fastfoc | 12 | 01:11 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0030.fastfoc | 12 | 01:12 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0031.fastfoc | 12 | 01:12 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0032.fastfoc | 12 | 01:13 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0033.fastfoc | 6 | 01:15 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0034.fastfoc | 6 | 01:16 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0035.fastfoc | 6 | 01:16 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0036.fastfoc | 6 | 01:16 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0037.fastfoc | 6 | 01:17 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0038.fastfoc | 6 | 01:17 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0039.fastfoc | 6 | 01:17 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0040.fastfoc | 6 | 01:18 | 23:33:55.2 | +31:35:31 | 1200 | 89 | 1.5 | #231 BH/NS bin | 2 | |
| 0041.HIP5240 | 60 | 01:30 | 01:07:00.1 | +56:56:07 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0042.COMP | 10 | 01:32 | 01:07:00.1 | +56:56:07 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |

UT Date 2019-12-22 Observers JDavisColl. Focus 1540 Grating/Grism 1200

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-------------------------|----------|----------|------------|-----------|------|------|------|----------------|-----|----------|
| 0043.2M21041709p2825175 | 600 | 01:39 | 21:04:17.1 | +28:25:18 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0044.COMP | 10 | 01:50 | 21:04:17.1 | +28:25:18 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0045.2M23563748p5706276 | 800 | 01:57 | 23:56:37.5 | +57:06:28 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0046.COMP | 10 | 02:11 | 23:56:37.5 | +57:06:28 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0047.2M00093745p5823242 | 800 | 02:16 | 00:09:37.5 | +58:23:24 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0048.COMP | 10 | 02:30 | 00:09:37.5 | +58:23:24 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0049.HIP117420 | 60 | 02:37 | 23:48:32.5 | -06:22:49 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0050.COMP | 10 | 02:39 | 23:48:32.5 | -06:22:49 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0051.HIP1477 | 60 | 02:43 | 00:18:20.7 | +30:23:46 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0052.COMP | 10 | 02:44 | 00:18:20.7 | +30:23:46 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0053.2M03351495p4607233 | 120 | 02:54 | 03:35:15.0 | +46:07:23 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0054.COMP | 10 | 02:56 | 03:35:15.0 | +46:07:23 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0055.2M03330186m0513360 | 600 | 03:04 | 03:33:01.9 | -05:13:36 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0056.COMP | 10 | 03:16 | 03:33:01.9 | -05:13:36 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0057.2M03315923m0747290 | 360 | 03:20 | 03:31:59.2 | -07:47:29 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0058.COMP | 10 | 03:26 | 03:31:59.2 | -07:47:29 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0059.2M05094952p2419593 | 1400 | 03:35 | 05:09:49.5 | +24:19:59 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0060.COMP | 10 | 03:58 | 05:09:49.5 | +24:19:59 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0061.2M04123153p6738486 | 1600 | 04:06 | 04:12:31.5 | +67:38:49 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0062.COMP | 10 | 04:33 | 04:12:31.5 | +67:38:49 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |

UT Date 2019-12-22 Observers JDavisColl. Focus 1540 Grating/Grism 1200

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-------------------------|----------|----------|------------|-----------|------|------|------|----------------|-----|----------|
| 0063.2M05523542p1115034 | 600 | 04:47 | 05:52:35.4 | +11:15:03 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0064.COMP | 10 | 04:57 | 05:52:35.4 | +11:15:03 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0065.2M05523542p1115034 | 400 | 04:59 | 05:52:35.4 | +11:15:03 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0066.COMP | 10 | 05:06 | 05:52:35.4 | +11:15:03 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0067.2M06364600p3557216 | 800 | 05:15 | 06:36:46.0 | +35:57:22 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0068.COMP | 10 | 05:29 | 06:36:46.0 | +35:57:22 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0069.2M06364600p3557216 | 1200 | 05:30 | 06:36:46.0 | +35:57:22 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0070.COMP | 10 | 05:50 | 06:36:46.0 | +35:57:22 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0071.2M06302812p0210543 | 1500 | 05:58 | 06:30:28.1 | +02:10:54 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0072.COMP | 10 | 06:24 | 06:30:28.1 | +02:10:54 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0073.2M08465205m1507171 | 800 | 10:53 | 08:46:52.1 | -15:07:17 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0074.COMP | 10 | 11:06 | 08:46:52.1 | -15:07:17 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0075.2M09432436p3901385 | 500 | 12:05 | 09:43:24.4 | +39:01:39 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0076.COMP | 10 | 12:13 | 09:43:24.4 | +39:01:39 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0077.2M09432436p3901385 | 1200 | 12:15 | 09:43:24.4 | +39:01:39 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0078.COMP | 10 | 12:36 | 09:43:24.4 | +39:01:39 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0079.2M12201387p1533262 | 180 | 12:41 | 12:20:13.9 | +15:33:26 | 1200 | 89 | 1.5 | #231 Non-inter | 2 | |
| 0080.COMP | 10 | 12:44 | 12:20:13.9 | +15:33:26 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| 0081-0083.DARK | 900 | 13:27 | 12:20:13.9 | +15:33:26 | 1200 | 89 | 1.5 | 0 Calibration | 2 | |
| comp300+600.ms | 10 | 05:47 | 10:39:36.9 | +43:06:11 | 300 | 90 | 3.0 | #56 Spectropho | 1 | |