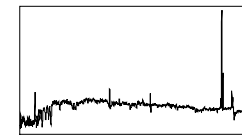


UT Date 2017-10-22 Observers Warren BrownColl. Focus 1290 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------|
| 0001.COMP | 10 | 19:23 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0002.fastfoc | 10 | 19:25 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | x7 foc=1290 |
| 0003.fastfoc | 10 | 19:31 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0004.fastfoc | 10 | 19:32 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0005.fastfoc | 10 | 19:32 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0006.fastfoc | 10 | 19:33 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0007.fastfoc | 10 | 19:33 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0008.fastfoc | 10 | 19:34 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | #0 Calibration | 4 | |
| 0009.BIAS | 0 | 19:38 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | 0 Calibration | 4 | x21 |
| 0010-0029.BIAS | 0 | 19:40 | 11:51:49.4 | +31:30:30 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0030.DARK | 900 | 19:42 | 11:51:49.4 | +31:30:30 | 600 | 90 | 1.5 | 0 Calibration | 4 | x10 |
| 0031-0039.DARK | 900 | 21:58 | 11:51:49.4 | +31:30:30 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0040.FLAT | 12 | 00:16 | 18:31:35.3 | +31:30:13 | 600 | 90 | 1.5 | 0 Calibration | 4 | x20 |
| 0041-0059.FLAT | 12 | 00:23 | 18:31:35.3 | +31:30:13 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0060.BDp284211 | 180 | 01:31 | 21:51:11.0 | +28:51:50 | 600 | 90 | 1.5 | #56 Spectropho | 4 | |
| 0061.COMP | 10 | 01:35 | 21:51:11.0 | +28:51:50 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0062.bb327 | 181 | 01:38 | 21:30:13.7 | -06:43:47 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0063.COMP | 10 | 01:42 | 21:30:13.7 | -06:43:47 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0064.bb324 | 275 | 01:43 | 21:27:52.8 | -12:42:37 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0065.COMP | 10 | 01:48 | 21:27:52.8 | -12:42:37 | 600 | 90 | 1.5 | 0 Calibration | 4 | |

UT Date 2017-10-22 Observers Warren BrownColl. Focus 1290 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|----------|
| 0066.bb325 | 427 | 01:55 | 21:29:16.4 | -14:33:26 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0067.COMP | 10 | 02:03 | 21:29:16.4 | -14:33:26 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0068.bb315 | 381 | 02:05 | 21:23:00.7 | -16:42:53 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0069.COMP | 10 | 02:11 | 21:23:00.7 | -16:42:53 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0070.bb310 | 1320 | 02:13 | 21:18:11.7 | -12:36:03 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0071.COMP | 10 | 02:36 | 21:18:11.7 | -12:36:03 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0072.bb306 | 756 | 02:37 | 21:17:09.0 | -23:00:59 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0073.COMP | 10 | 02:50 | 21:17:09.0 | -23:00:59 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0074.bb309 | 505 | 02:51 | 21:17:43.6 | -28:28:45 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0075.COMP | 10 | 03:00 | 21:17:43.6 | -28:28:45 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0076.bb313 | 440 | 03:01 | 21:21:15.5 | -29:09:00 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0077.COMP | 10 | 03:09 | 21:21:15.5 | -29:09:00 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0078.bb321 | 1320 | 03:11 | 21:25:17.5 | -25:29:52 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0079.COMP | 10 | 03:33 | 21:25:17.5 | -25:29:52 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0080.bb317 | 1080 | 03:35 | 21:23:54.1 | -21:36:53 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0081.COMP | 10 | 03:54 | 21:23:54.1 | -21:36:53 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0082.gd278 | 420 | 03:57 | 01:30:58.1 | +53:21:40 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0083.COMP | 10 | 04:04 | 01:30:58.1 | +53:21:40 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0084.bb322 | 1080 | 04:06 | 21:26:41.3 | -20:41:04 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0085.COMP | 10 | 04:25 | 21:26:41.3 | -20:41:04 | 600 | 89 | 1.5 | 0 Calibration | 4 | |

UT Date 2017-10-22 Observers Warren BrownColl. Focus 1290 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|---------------|
| 0086.bb323 | 1380 | 04:26 | 21:27:22.8 | -09:22:03 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0087.COMP | 10 | 04:50 | 21:27:22.8 | -09:22:03 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0088.bb431 | 420 | 04:51 | 22:35:43.3 | -29:31:05 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0089.COMP | 10 | 04:59 | 22:35:43.3 | -29:31:05 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0090.bb441 | 190 | 05:00 | 22:44:24.6 | -25:07:02 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0091.COMP | 10 | 05:03 | 22:44:24.6 | -25:07:02 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0092.bb446 | 890 | 05:05 | 22:55:06.7 | -29:24:07 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0093.COMP | 10 | 05:20 | 22:55:06.7 | -29:24:07 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0094.bb447 | 329 | 05:21 | 22:56:19.9 | -27:08:23 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0095.COMP | 10 | 05:27 | 22:56:19.9 | -27:08:23 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0096.bb444 | 736 | 05:28 | 22:50:10.8 | -26:28:11 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0097.COMP | 10 | 05:41 | 22:50:10.8 | -26:28:11 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0098.bb470 | 1020 | 05:42 | 23:19:23.0 | -24:00:49 | 600 | 88 | 1.5 | #178 Low Mass | 4 | obj at row 39 |
| 0099.COMP | 10 | 05:59 | 23:19:23.0 | -24:00:49 | 600 | 88 | 1.5 | 0 Calibration | 4 | |
| 0100.bb445 | 1020 | 06:01 | 22:51:54.2 | -20:35:59 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0101.COMP | 10 | 06:18 | 22:51:54.2 | -20:35:59 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0102.bb459 | 660 | 06:19 | 23:05:46.4 | -20:17:35 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0103.COMP | 10 | 06:31 | 23:05:46.4 | -20:17:35 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0104.bb487 | 300 | 06:32 | 23:39:24.5 | -26:45:38 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0105.COMP | 10 | 06:37 | 23:39:24.5 | -26:45:38 | 600 | 90 | 1.5 | 0 Calibration | 4 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|----------|
| 0106.bb450 | 45 | 06:38 | 22:57:47.8 | -18:22:57 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0107.COMP | 10 | 06:39 | 22:57:47.8 | -18:22:57 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0108.bb476 | 279 | 06:41 | 23:24:07.0 | -18:28:13 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0109.COMP | 10 | 06:46 | 23:24:07.0 | -18:28:13 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0110.gd278 | 390 | 06:48 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0111.COMP | 10 | 06:55 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0112.j2241p26 | 774 | 06:57 | 22:41:23.9 | +26:27:44 | 600 | 86 | 1.5 | #178 Low Mass | 4 | |
| 0113.COMP | 10 | 07:11 | 22:41:23.9 | +26:27:44 | 600 | 87 | 1.5 | 0 Calibration | 4 | |
| 0114.j2248p26 | 1097 | 07:12 | 22:48:41.0 | +26:32:52 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0115.COMP | 10 | 07:30 | 22:48:41.0 | +26:32:52 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0116.j2302p21 | 958 | 07:31 | 23:02:18.7 | +21:49:56 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0117.COMP | 10 | 07:48 | 23:02:18.7 | +21:49:56 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0118.j2321p19 | 1255 | 07:49 | 23:21:10.4 | +19:14:31 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0119.COMP | 10 | 08:10 | 23:21:10.4 | +19:14:31 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0120.gd278 | 390 | 08:11 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0121.COMP | 10 | 08:18 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0122.j0006p28 | 1019 | 08:20 | 00:06:34.7 | +28:58:47 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0123.COMP | 10 | 08:37 | 00:06:34.7 | +28:58:47 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0124.j0024p27 | 1440 | 08:38 | 00:24:34.8 | +27:42:06 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0125.COMP | 10 | 09:03 | 00:24:34.8 | +27:42:06 | 600 | 89 | 1.5 | 0 Calibration | 4 | |

UT Date 2017-10-22 Observers Warren BrownColl. Focus 1290 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|----------|
| 0126.gd278 | 390 | 09:04 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0127.COMP | 10 | 09:11 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0128.j0039p13 | 1200 | 09:13 | 00:39:29.2 | +13:18:06 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0129.COMP | 10 | 09:33 | 00:39:29.2 | +13:18:06 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0130.j0128p29 | 1330 | 09:35 | 01:28:30.3 | +29:35:06 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0131.COMP | 10 | 09:57 | 01:28:30.3 | +29:35:06 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0132.gd278 | 420 | 09:58 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0133.COMP | 10 | 10:06 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0134.j0159p09 | 1363 | 10:08 | 01:59:44.0 | +09:09:41 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0135.COMP | 10 | 10:31 | 01:59:44.0 | +09:09:41 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0136.j0135p45 | 540 | 10:33 | 01:35:43.7 | +45:25:56 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0137.COMP | 10 | 10:43 | 01:35:43.7 | +45:25:56 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0138.j0135p57 | 1424 | 10:44 | 01:35:17.6 | +57:22:49 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0139.COMP | 10 | 11:08 | 01:35:17.6 | +57:22:49 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0140.gd278 | 420 | 11:09 | 01:30:58.1 | +53:21:40 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0141.COMP | 10 | 11:16 | 01:30:58.1 | +53:21:40 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0142.gd278 | 450 | 11:21 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0143.COMP | 10 | 11:29 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0144.gd278 | 450 | 11:29 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0145.COMP | 10 | 11:37 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |

UT Date 2017-10-22 Observers Warren BrownColl. Focus 1290 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--|
| 0146.gd278 | 450 | 11:38 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0147.COMP | 10 | 11:45 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0148.gd278 | 480 | 11:46 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0149.COMP | 10 | 11:54 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0150.gd278 | 540 | 11:55 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0151.COMP | 10 | 12:04 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0152.gd278 | 570 | 12:04 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | HeNeAr lamp turned on during final seconds |
| 0153.COMP | 10 | 12:14 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0154.gd278 | 486 | 12:15 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0155.COMP | 10 | 12:23 | 01:30:58.1 | +53:21:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0156.Feige34 | 210 | 12:27 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | #56 Spectropho | 4 | |
| 0157.COMP | 10 | 12:31 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0158.DARK | 900 | 13:00 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | x10 |
| 0159-0167.DARK | 900 | 15:16 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0168.DARK | 900 | 15:31 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 2 | x10 |
| 0169-0177.DARK | 900 | 17:49 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 2 | |