

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|-------------------------------------|
| 0001-0005.DARK | 900 | 00:17 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0006-0015.BIAS | 0 | 00:38 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0016-0035.FLAT | 7 | 00:45 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0036-0045.BIAS | 0 | 00:48 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0046.AS338 | 100 | 01:29 | 19:03:47.0 | +16:26:17 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | horrible seeing! |
| 0047.AS338 | 720 | 01:31 | 19:03:47.0 | +16:26:17 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0048.COMP | 10 | 01:43 | 19:03:47.0 | +16:26:17 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0049.V919Sgr | 30 | 01:47 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0050.V919Sgr | 15 | 01:49 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0051.V919Sgr | 60 | 01:50 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0052.COMP | 10 | 01:51 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0053.BFCyg | 20 | 01:54 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0054.BFCyg | 20 | 01:55 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0055.COMP | 5 | 01:56 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0056.CHCyg | 1 | 01:58 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0057.CHCyg | 6 | 01:58 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0058.CHCyg | 35 | 01:59 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0059.COMP | 10 | 02:00 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.AS360 | 60 | 02:04 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | seeing making it hard to id objects |
| 0061.AS360 | 360 | 02:06 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |

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|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0062.COMP | 10 | 02:13 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0063.CICyg | 4 | 02:16 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0064.CICyg | 15 | 02:16 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0065.COMP | 10 | 02:17 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0066.PUVul | 1 | 02:19 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0067.PUVul | 10 | 02:20 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0068.PUVul | 60 | 02:20 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0069.COMP | 10 | 02:22 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0070.BDp284211 | 100 | 02:24 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | seeing still dreadful!! |
| 0071.COMP | 10 | 02:27 | 21:51:11.0 | +28:51:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0072.BDp174708 | 90 | 02:29 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0073.COMP | 10 | 02:31 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0074.sn2013fw | 2700 | 02:34 | 21:13:44.8 | +13:34:33 | 300 | 50 | 3.0 | #2 SN Observat | 2 | |
| 0075.COMP | 10 | 03:19 | 21:13:44.8 | +13:34:33 | 300 | 50 | 3.0 | 0 Calibration | 2 | |
| 0076.Kenfill110 | 1200 | 03:26 | 23:11:39.9 | +08:04:03 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0077.COMP | 10 | 03:47 | 23:11:39.9 | +08:04:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0078.Kenfill111 | 1800 | 03:50 | 23:11:45.3 | +07:11:39 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0079.COMP | 10 | 04:20 | 23:11:45.3 | +07:11:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0080.Kenfill112 | 1800 | 04:22 | 23:11:47.5 | +07:25:40 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0081.COMP | 10 | 04:53 | 23:11:47.5 | +07:25:40 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0082.Kenfill113 | 1800 | 04:56 | 23:10:20.1 | +07:35:40 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0083.COMP | 10 | 05:27 | 23:10:20.1 | +07:35:40 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0084.ZAnd | 2 | 05:30 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0085.ZAnd | 6 | 05:31 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0086.ZAnd | 35 | 05:32 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0087.COMP | 10 | 05:33 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0088.RAqr | 2 | 05:35 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0089.RAqr | 6 | 05:36 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0090.RAqr | 12 | 05:36 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0091.COMP | 10 | 05:37 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0092.EGAnd | 2 | 05:40 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0093.EGAnd | 6 | 05:41 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0094.EGAnd | 20 | 05:41 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0095.COMP | 10 | 05:42 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0096.AXPer | 5 | 05:45 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0097.AXPer | 35 | 05:45 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0098.AXPer | 90 | 05:46 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0099.COMP | 10 | 05:48 | 01:36:23.0 | +54:15:03 | 300 | 84 | 3.0 | 0 Calibration | 2 | |
| 0100.Kenfill114 | 2400 | 05:51 | 23:12:10.1 | +07:32:52 | 300 | 84 | 3.0 | #210 Brightest | 2 | |
| 0101.COMP | 10 | 06:33 | 23:12:10.1 | +07:32:52 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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|-----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------------|
| 0102.Kenfill008 | 2400 | 06:35 | 03:38:47.5 | +09:55:09 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0103.COMP | 10 | 07:16 | 03:38:47.5 | +09:55:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | close for wind |
| 0104.GITau | 300 | 09:41 | 04:33:34.0 | +24:21:18 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0105.COMP | 10 | 09:46 | 04:33:34.0 | +24:21:18 | 300 | 83 | 3.0 | 0 Calibration | 2 | |
| 0106.GKTau | 300 | 09:47 | 04:33:34.5 | +24:21:07 | 300 | 83 | 3.0 | #12 Symbiotic | 2 | |
| 0107.COMP | 10 | 09:53 | 04:33:34.5 | +24:21:07 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0108.BGGem | 480 | 09:54 | 06:03:31.0 | +27:41:50 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0109.COMP | 10 | 10:03 | 06:03:31.0 | +27:41:50 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0110.04490346+6055283 | 1800 | 10:09 | 04:49:03.5 | +60:55:28 | 300 | 89 | 3.0 | #141 2MASS Red | 2 | |
| 0111.COMP | 10 | 10:40 | 04:49:03.5 | +60:55:28 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0112.04514889+6404404 | 1500 | 10:42 | 04:51:48.9 | +64:04:40 | 300 | 89 | 3.0 | #141 2MASS Red | 2 | |
| 0113.COMP | 10 | 11:08 | 04:51:48.9 | +64:04:40 | 300 | 90 | 3.0 | 0 Calibration | 2 | close for wind |
| 0114.BXMon | 25 | 11:58 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | ignore, horrible seeing! |
| 0115.BXMon | 200 | 11:59 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0116.BXMon | 30 | 12:03 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0117.COMP | 10 | 12:05 | 07:25:23.0 | -03:35:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0118.SS129 | 420 | 12:07 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | row=77 |
| 0119.SS129 | 420 | 12:14 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0120.COMP | 10 | 12:21 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | 0 Calibration | 2 | close for wind, again! |
| 0121-0130.BIAS | 0 | 12:25 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0131-0150.FLAT | 7 | 12:32 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0151-0160.DARK | 900 | 15:19 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |