

UT Date 2004-09-15 Observers M CalkinsColl. Focus 1020 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|----------|------|------|------|----------------|-----|----------|
| 0001-0010.FLAT | 360 | 0:30 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | #0 Calibration | 2 | |
| 0011.COMP | 150 | 0:39 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0012.COMP | 150 | 0:42 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0013.COMP | 150 | 0:44 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0014.COMP | 150 | 0:47 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0015.COMP | 150 | 0:50 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0016.COMP | 150 | 0:52 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0017.COMP | 150 | 0:55 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0018.COMP | 150 | 0:58 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0019.COMP | 150 | 1:00 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0020.COMP | 150 | 1:03 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | 99 Other | 2 | |
| 0021-0030.BIAS | 0 | 1:11 | 06:42:37.2 | 02:11:25 | 1200 | 90 | 2.0 | #0 Calibration | 2 | |
| 0031-0032.DARK | 900 | 2:17 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #0 Calibration | 4 | |
| 0033-0042.BIAS | 0 | 2:33 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #0 Calibration | 4 | |
| 0043-0052.FLAT | 6 | 2:36 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #0 Calibration | 4 | |
| 0053-0062.BIAS | 0 | 2:38 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #0 Calibration | 2 | |
| 0063-0072.FLAT | 12 | 2:42 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #0 Calibration | 2 | |
| 0073.BDp332642 | 50 | 2:44 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0074.BDp332642 | 50 | 2:45 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0075.COMP | 5 | 2:46 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |

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|----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0076.BDp332642 | 50 | 2:47 | 15:50:03.0 | 33:05:49 | 300 | 79 | 3.0 | #56 Spectropho | 2 | |
| 0077.BDp332642 | 50 | 2:48 | 15:50:03.0 | 33:05:49 | 300 | 79 | 3.0 | #56 Spectropho | 2 | |
| 0078.COMP | 12 | 2:50 | 15:50:03.0 | 33:05:49 | 300 | 79 | 3.0 | #56 Spectropho | 2 | |
| 0079.XTEJ1855m026 | 300 | 2:54 | 18:55:30.5 | -02:36:21 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0080.COMP | 12 | 3:00 | 18:55:30.5 | -02:36:21 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0081.sn2004dk | 1200 | 3:04 | 16:21:48.9 | -02:16:17 | 300 | 47 | 3.0 | #2 SN Observat | 2 | |
| 0082.COMP | 12 | 3:24 | 16:21:48.9 | -02:16:17 | 300 | 47 | 3.0 | #2 SN Observat | 2 | |
| 0083.IRAS21004+7811N | 360 | 3:42 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | clouds, try again |
| 0084.COMP | 12 | 3:48 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0085.IRAS21004+7811N | 600 | 3:52 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | gas cloud? |
| 0086.COMP | 12 | 4:03 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0087.IRAS21004+7811S | 480 | 4:04 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0088.COMP | 12 | 4:12 | 20:59:14.5 | 78:23:00 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0089.K98-10 | 480 | 4:14 | 20:46:32.9 | 76:12:36 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0090.COMP | 12 | 4:22 | 20:46:32.9 | 76:12:36 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0091.K98-12 | 480 | 4:24 | 20:48:43.7 | 76:27:26 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0092.COMP | 12 | 4:32 | 20:48:43.7 | 76:27:26 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0093.IRAS21023+7650 | 270 | 4:36 | 21:01:30.5 | 77:02:37 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0094.COMP | 12 | 4:40 | 21:01:30.5 | 77:02:37 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0095.IRAS21028+7645 | 240 | 4:43 | 21:02:05.9 | 76:57:09 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |

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|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|------------------|
| 0096.COMP | 12 | 4:48 | 21:02:05.9 | 76:57:09 | 300 | 90 | 3.0 | #156 Cepheus P | 2 | |
| 0097.2M23261650-0158268 | 300 | 4:51 | 23:26:16.5 | -01:58:26 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0098.COMP | 12 | 4:56 | 23:26:16.5 | -01:58:26 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0099.2M23275510-0145448 | 480 | 4:57 | 23:27:55.1 | -01:45:44 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0100.COMP | 12 | 5:06 | 23:27:55.1 | -01:45:44 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0101.2M23283891+0934383 | 390 | 5:08 | 23:28:38.9 | +09:34:38 | 300 | 80 | 3.0 | #141 Mapping t | 2 | |
| 0102.COMP | 12 | 5:15 | 23:28:38.9 | +09:34:38 | 300 | 80 | 3.0 | #141 Mapping t | 2 | |
| 0103.2M23301486-0227019 | 300 | 5:16 | 23:30:14.8 | -02:27:1 | 300 | 80 | 3.0 | #141 Mapping t | 2 | |
| 0104.COMP | 12 | 5:21 | 23:30:14.8 | -02:27:1 | 300 | 80 | 3.0 | #141 Mapping t | 2 | |
| 0105.2M23341293+0720486 | 300 | 5:23 | 23:34:12.9 | +07:20:48 | 300 | 90 | 3.0 | #141 Mapping t | 2 | need more counts |
| 0106.COMP | 12 | 5:28 | 23:34:12.9 | +07:20:48 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0107.2M23341293+0720486 | 540 | 5:30 | 23:34:12.9 | +07:20:48 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0108.COMP | 12 | 5:40 | 23:34:12.9 | +07:20:48 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0109.2M23342564+0501331 | 450 | 5:41 | 23:34:25.6 | +05:01:33 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0110.COMP | 12 | 5:49 | 23:34:25.6 | +05:01:33 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0111.2M23374968+1552462 | 420 | 5:50 | 23:37:49.6 | +15:52:46 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0112.COMP | 12 | 5:58 | 23:37:49.6 | +15:52:46 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0113.2M23384397-0128195 | 360 | 6:00 | 23:38:43.9 | -01:28:19 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0114.COMP | 12 | 6:06 | 23:38:43.9 | -01:28:19 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0115.2M23393333-0727284 | 270 | 6:07 | 23:39:33.3 | -07:27:28 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |

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| 0116.COMP | 12 | 6:12 | 23:39:33.3 | -07:27:28 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0117.2M23441825-0422493 | 540 | 6:26 | 23:44:18.2 | -04:22:49 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0118.COMP | 12 | 6:35 | 23:44:18.2 | -04:22:49 | 300 | 90 | 3.0 | #141 Mapping t | 2 | |
| 0119.Akn564 | 180 | 6:39 | 22:42:39.4 | +29:43:31 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0120.Akn564 | 180 | 6:42 | 22:42:39.4 | +29:43:31 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0121.COMP | 12 | 6:46 | 22:42:39.4 | +29:43:31 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0122.N7469 | 120 | 6:47 | 23:03:15.7 | +08:52:27 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | row=70 |
| 0123.N7469 | 120 | 6:49 | 23:03:15.7 | +08:52:27 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0124.COMP | 12 | 6:51 | 23:03:15.7 | +08:52:27 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0125.sn2004ef | 1200 | 6:53 | 22:42:10.0 | +19:59:40 | 300 | 24 | 3.0 | #2 SN Observat | 2 | |
| 0126.COMP | 12 | 7:14 | 22:42:10.0 | +19:59:40 | 300 | 24 | 3.0 | #2 SN Observat | 2 | |
| 0127.ZAnd | 2 | 7:16 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0128.ZAnd | 10 | 7:16 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0129.ZAnd | 60 | 7:16 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0130.COMP | 12 | 7:18 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0131.EGAnd | 1 | 10:22 | 0:44:37 | 40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0132.EGAnd | 5 | 10:22 | 0:44:37 | 40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0133.EGAnd | 10 | 10:23 | 0:44:37 | 40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0134.COMP | 12 | 10:23 | 0:44:37 | 40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0135.AXPer | 4 | 10:25 | 1:36:23 | 54:15:03 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |

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| 0136.AXPer | 30 | 10:25 | 1:36:23 | 54:15:03 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0137.AXPer | 90 | 10:26 | 1:36:23 | 54:15:03 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0138.COMP | 12 | 10:28 | 1:36:23 | 54:15:03 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0139.sn2004dt | 1200 | 10:32 | 02:02:12.7 | -00:05:51 | 300 | 17 | 3.0 | #2 SN Observat | 2 | |
| 0140.COMP | 12 | 10:52 | 02:02:12.7 | -00:05:51 | 300 | 17 | 3.0 | #2 SN Observat | 2 | |
| 0141.260_19 | 480 | 10:55 | 01:50:57.7 | +32:57:24 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0142.COMP | 12 | 11:03 | 01:50:57.7 | +32:57:24 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0143.260_20 | 900 | 11:05 | 01:53:29.7 | +32:57:46 | 300 | 110 | 3.0 | #64 Galaxy For | 2 | |
| 0144.COMP | 12 | 11:20 | 01:53:29.7 | +32:57:46 | 300 | 110 | 3.0 | #64 Galaxy For | 2 | |
| 0145.260_21 | 1200 | 11:22 | 01:48:07.8 | +32:58:59 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0146.COMP | 12 | 11:42 | 01:48:07.8 | +32:58:59 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0147.400_03 | 780 | 11:45 | 02:55:22.6 | +05:11:19 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0148.COMP | 12 | 11:58 | 02:55:22.6 | +05:11:19 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0149.400_04 | 780 | 11:59 | 02:55:05.6 | +05:11:25 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0150.COMP | 12 | 12:13 | 02:55:05.6 | +05:11:25 | 300 | 90 | 3.0 | #64 Galaxy For | 2 | |
| 0151.Hiltner600 | 50 | 12:15 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0152.COMP | 12 | 12:16 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0153-0157.sky | 2 | 12:52 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0158.COMP | 5 | 12:53 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0159-0168.BIAS | 0 | 12:55 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |

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|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0169-0178.FLAT | 6 | 12:58 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0179-0188.BIAS | 0 | 13:00 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0189-0198.FLAT | 12 | 13:05 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0199-0208.DARK | 900 | 15:23 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |