

UT Date 2004-03-27 Observers P BerlindColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------|
| 0001-0008.DARK | 900 | 0:58 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0009-0010.BIAS | 0 | 1:20 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0011-0020.BIAS | 0 | 1:22 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 4 | |
| 0021-0030.FLAT | 8 | 1:25 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 4 | |
| 0031-0040.BIAS | 0 | 1:28 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0041-0050.FLAT | 16 | 1:33 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0051.sky | 3 | 1:54 | 6:35:00 | 32:00:00 | 300 | 90 | 3.0 | #57 Velocity S | 4 | clouds to far west |
| 0052-0055.sky | 3 | 1:54 | 6:35:00 | 32:00:00 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0056.COMP | 5 | 1:55 | 6:35:00 | 32:00:00 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0057.HD52071 | 5 | 2:26 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0058.HD52071 | 5 | 2:27 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0059.HD52071 | 5 | 2:27 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0060.COMP | 5 | 2:27 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0061.FineFoc | 60 | 2:29 | 08:00:04.5 | 31:35:29 | 300 | 90 | 3.0 | #57 Velocity S | 1 | |
| 0062.Akn120 | 300 | 2:37 | 05:13:38.0 | -00:12:15 | 300 | 43 | 3.0 | #6 AGN Monitor | 4 | |
| 0063.COMP | 5 | 2:43 | 05:13:38.0 | -00:12:15 | 300 | 43 | 3.0 | #6 AGN Monitor | 4 | |
| 0064.FUOri | 30 | 2:45 | 05:45:22.6 | +09:04:12 | 300 | 47 | 3.0 | #112 Orion PMS | 4 | |
| 0065.FUOri | 30 | 2:46 | 05:45:22.6 | +09:04:12 | 300 | 47 | 3.0 | #112 Orion PMS | 4 | |
| 0066.COMP | 5 | 2:46 | 05:45:22.6 | +09:04:12 | 300 | 47 | 3.0 | #112 Orion PMS | 4 | |
| 0067.ZCMa | 10 | 2:48 | 07:03:43.1 | -11:33:06 | 300 | 14 | 3.0 | #112 Orion PMS | 4 | |

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|-------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0068.ZCma | 5 | 2:48 | 07:03:43.1 | -11:33:06 | 300 | 14 | 3.0 | #112 Orion PMS | 4 | |
| 0069.ZCma | 35 | 2:48 | 07:03:43.1 | -11:33:06 | 300 | 14 | 3.0 | #112 Orion PMS | 4 | |
| 0070.ZCma | 35 | 2:49 | 07:03:43.1 | -11:33:06 | 300 | 14 | 3.0 | #112 Orion PMS | 4 | |
| 0071.COMP | 5 | 2:50 | 07:03:43.1 | -11:33:06 | 300 | 14 | 3.0 | #112 Orion PMS | 4 | |
| 0072.BXMon | 15 | 2:51 | 7:25:23 | -03:35:51 | 300 | 8 | 3.0 | #12 Symbiotic | 4 | |
| 0073.BXMon | 10 | 2:51 | 7:25:23 | -03:35:51 | 300 | 8 | 3.0 | #12 Symbiotic | 4 | |
| 0074.BXMon | 45 | 2:52 | 7:25:23 | -03:35:51 | 300 | 8 | 3.0 | #12 Symbiotic | 4 | |
| 0075.BXMon | 90 | 2:53 | 7:25:23 | -03:35:51 | 300 | 8 | 3.0 | #12 Symbiotic | 4 | |
| 0076.COMP | 5 | 2:55 | 7:25:23 | -03:35:51 | 300 | 8 | 3.0 | #12 Symbiotic | 4 | |
| 0077.qvsonb-53058 | 480 | 2:57 | 05:57:35.7 | -01:52:02 | 300 | 45 | 3.0 | #112 Orion PMS | 2 | |
| 0078.COMP | 10 | 3:06 | 05:57:35.7 | -01:52:02 | 300 | 45 | 3.0 | #112 Orion PMS | 2 | |
| 0079.qvsonb-53987 | 300 | 3:07 | 05:58:34.6 | -01:55:43 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0080.COMP | 5 | 3:12 | 05:58:34.6 | -01:55:43 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0081.qvsonb-54611 | 420 | 3:13 | 05:59:17.4 | -02:06:20 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0082.COMP | 5 | 3:21 | 05:59:17.4 | -02:06:20 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0083.qvsonb-55624 | 600 | 3:23 | 06:00:23.7 | -01:50:45 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0084.COMP | 5 | 3:33 | 06:00:23.7 | -01:50:45 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0085.qvsonb-62987 | 720 | 3:34 | 06:00:11.6 | -00:02:34 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0086.COMP | 5 | 3:47 | 06:00:11.6 | -00:02:34 | 300 | 45 | 3.0 | #112 Orion PMS | 4 | |
| 0087.test | 1 | 3:51 | 9:00:00 | 32:00:00 | 600 | 90 | 2.0 | #112 Orion PMS | 4 | |

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|----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|-----------------------|
| 0088.FLAT | 40 | 3:51 | 9:00:00 | 32:00:00 | 600 | 90 | 2.0 | #112 Orion PMS | 4 | 600-line,2-sec,Warren |
| 0089-0097.FLAT | 40 | 3:58 | 9:00:00 | 32:00:00 | 600 | 90 | 2.0 | #112 Orion PMS | 4 | |
| 0098.hs1880 | 720 | 4:02 | 11:20:06.7 | 27:38:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0099.COMP | 10 | 4:14 | 11:20:06.7 | 27:38:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0100.hs1881 | 420 | 4:15 | 11:20:47.8 | 17:53:43 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0101.COMP | 10 | 4:23 | 11:20:47.8 | 17:53:43 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0102.hs1883 | 720 | 4:23 | 11:21:56.9 | 16:25:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0103.COMP | 10 | 4:36 | 11:21:56.9 | 16:25:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0104.hs1885 | 720 | 4:37 | 11:22:07.5 | 10:20:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0105.COMP | 10 | 4:49 | 11:22:07.5 | 10:20:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0106.hs1884 | 720 | 4:50 | 11:22:02.5 | 21:55:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0107.COMP | 10 | 5:02 | 11:22:02.5 | 21:55:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0108.hs1882 | 720 | 5:03 | 11:20:57.3 | 50:46:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0109.COMP | 10 | 5:15 | 11:20:57.3 | 50:46:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0110.hs1886 | 720 | 5:16 | 11:22:20.6 | 50:35:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0111.COMP | 10 | 5:28 | 11:22:20.6 | 50:35:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0112.hs1902 | 300 | 5:30 | 11:26:09.4 | 11:37:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0113.COMP | 10 | 5:35 | 11:26:09.4 | 11:37:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0114.hs1903 | 240 | 5:36 | 11:26:17.8 | 6:55:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0115.COMP | 10 | 5:41 | 11:26:17.8 | 6:55:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

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|-------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--|
| 0116.hs1904 | 720 | 5:41 | 11:26:23.0 | 32:27:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0117.COMP | 10 | 5:54 | 11:26:23.0 | 32:27:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0118.hs1905 | 300 | 5:55 | 11:26:34.6 | 27:15:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0119.COMP | 10 | 6:00 | 11:26:34.6 | 27:15:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0120.hs1906 | 720 | 6:00 | 11:26:35.8 | 35:06:24 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0121.COMP | 10 | 6:13 | 11:26:35.8 | 35:06:24 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0122.hs1907 | 720 | 6:14 | 11:26:43.3 | 17:14:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0123.COMP | 10 | 6:28 | 11:26:43.4 | +17:13:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | tcs crash, I think header is actually ok |
| 0124.hs1911 | 900 | 6:29 | 11:27:21.1 | 27:13:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0125.COMP | 10 | 6:45 | 11:27:21.1 | 27:13:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0126.hs1910 | 300 | 6:46 | 11:27:13.8 | 20:51:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0127.COMP | 10 | 6:51 | 11:27:13.8 | 20:51:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0128.hs1909 | 300 | 6:52 | 11:26:59.6 | 31:39:08 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0129.COMP | 10 | 6:57 | 11:26:59.6 | 31:39:08 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0130.hs1913 | 360 | 6:58 | 11:28:18.3 | 30:49:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0131.COMP | 10 | 7:04 | 11:28:18.3 | 30:49:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0132.hs1912 | 300 | 7:05 | 11:27:45.9 | 44:27:14 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0133.COMP | 10 | 7:10 | 11:27:45.9 | 44:27:14 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0134.hs1914 | 240 | 7:11 | 11:28:21.3 | 39:27:31 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0135.COMP | 10 | 7:17 | 11:28:21.3 | 39:27:31 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

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| 0136.hs1916 | 180 | 7:18 | 11:28:32.9 | 9:00:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | many tcs crashes last 3 nights |
| 0137.COMP | 10 | 7:22 | 11:28:32.9 | 9:00:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0138.test | 1 | 7:24 | 12:45:00 | 32:00:00 | 300 | 90 | 3.0 | #122 Halo Star | 4 | |
| 0139.HD84937 | 10 | 7:26 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0140.HD84937 | 10 | 7:26 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0141.HD84937 | 10 | 7:26 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0142.COMP | 10 | 7:27 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0143.Feige34 | 150 | 7:29 | 10:36:41.2 | 43:21:50 | 300 | 108 | 3.0 | #56 Spectropho | 2 | |
| 0144.Feige34 | 150 | 7:32 | 10:36:41.2 | 43:21:50 | 300 | 108 | 3.0 | #56 Spectropho | 2 | |
| 0145.COMP | 10 | 7:34 | 10:36:41.2 | 43:21:50 | 300 | 108 | 3.0 | #56 Spectropho | 2 | |
| 0146.sn2004at | 1200 | 7:36 | 10:58:45.1 | +59:29:12 | 300 | 110 | 3.0 | #2 SN Observat | 2 | |
| 0147.COMP | 10 | 7:56 | 10:58:45.1 | +59:29:12 | 300 | 110 | 3.0 | #2 SN Observat | 2 | |
| 0148.sn2004as | 1500 | 7:59 | 11:25:39.1 | +22:49:49 | 300 | 64 | 3.0 | #2 SN Observat | 2 | tcs crash |
| 0149.COMP | 10 | 8:26 | 11:25:39.1 | +22:49:49 | 300 | 64 | 3.0 | #2 SN Observat | 2 | tcs crash |
| 0150.sn2004aw | 1365 | 8:36 | 11:57:50.2 | +25:15:55 | 300 | 70 | 3.0 | #2 SN Observat | 2 | |
| 0151.COMP | 10 | 9:01 | 11:57:50.2 | +25:15:55 | 300 | 70 | 3.0 | #2 SN Observat | 2 | |
| 0152.cairnsk5_120 | 900 | 9:04 | 13:16:52.5 | 27:46:8 | 300 | 90 | 3.0 | #64 Cluster In | 4 | |
| 0153.COMP | 5 | 9:20 | 13:16:52.5 | 27:46:8 | 300 | 90 | 3.0 | #64 Cluster In | 4 | |
| 0154.cairnsk5_123 | 900 | 9:20 | 12:43:53.3 | 31:49:41 | 300 | 90 | 3.0 | #64 Cluster In | 4 | |
| 0155.COMP | 5 | 9:36 | 12:43:53.3 | 31:49:41 | 300 | 90 | 3.0 | #64 Cluster In | 4 | |

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| 0156.cairnsk5_124 | 900 | 9:37 | 12:46:41.4 | 26:57:53 | 300 | 90 | 3.0 | #64 Cluster In | 4 | tcs crash |
| 0157.COMP | 5 | 9:55 | 12:46:41.4 | 26:57:53 | 300 | 90 | 3.0 | #64 Cluster In | 4 | |
| 0158.2M13534057+2504460 | 300 | 9:56 | 13:53:40.5 | +25:04:46 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0159.COMP | 5 | 10:01 | 13:53:40.5 | +25:04:46 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0160.2M13545583+2507214 | 240 | 10:02 | 13:54:55.8 | +25:07:21 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0161.COMP | 5 | 10:06 | 13:54:55.8 | +25:07:21 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0162.XS00809B6_009 | 1200 | 10:09 | 13:44:22.3 | +55:57:04 | 300 | 90 | 3.0 | #129 Bright Ch | 2 | |
| 0163.COMP | 10 | 10:29 | 13:44:22.3 | +55:57:04 | 300 | 90 | 3.0 | #129 Bright Ch | 2 | |
| 0164.XS00809B7_003 | 300 | 10:30 | 13:44:49.1 | +55:58:10 | 300 | 90 | 3.0 | #129 Bright Ch | 2 | |
| 0165.COMP | 10 | 10:35 | 13:44:49.1 | +55:58:10 | 300 | 90 | 3.0 | #129 Bright Ch | 2 | |
| 0166.2M15095208-0023053 | 360 | 10:37 | 15:09:52.0 | -00:23:05 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0167.COMP | 5 | 10:45 | 15:09:52.0 | -00:23:05 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0168.2M15190349+0420014 | 240 | 10:45 | 15:19:03.4 | +04:20:01 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0169.COMP | 5 | 10:49 | 15:19:03.4 | +04:20:01 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0170.2M15325288+0028079 | 240 | 10:50 | 15:32:52.8 | +00:28:07 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0171.COMP | 5 | 10:54 | 15:32:52.8 | +00:28:07 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0172.2M17050038-0132287 | 420 | 10:56 | 17:05:00.3 | -01:32:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0173.COMP | 5 | 11:04 | 17:05:00.3 | -01:32:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0174.2M17243782-0243062 | 480 | 11:05 | 17:24:37.8 | -02:43:06 | 300 | 80 | 3.0 | #68 2MASS Reds | 4 | |
| 0175.COMP | 5 | 11:14 | 17:24:37.8 | -02:43:06 | 300 | 80 | 3.0 | #68 2MASS Reds | 4 | |

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|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0176.BDp332642 | 90 | 11:15 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0177.BDp332642 | 90 | 11:17 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0178.COMP | 10 | 11:19 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0179.sn2004ao | 1200 | 11:21 | 17:28:09.3 | +07:24:55 | 300 | -25 | 3.0 | #2 SN Observat | 2 | |
| 0180.COMP | 10 | 11:42 | 17:28:09.3 | +07:24:55 | 300 | -25 | 3.0 | #2 SN Observat | 2 | |
| 0181.cl1425p3758 | 1800 | 11:45 | 14:25:05.8 | +37:58:12 | 300 | 90 | 3.0 | #150 Distant C | 2 | |
| 0182.COMP | 10 | 12:15 | 14:25:05.8 | +37:58:12 | 300 | 90 | 3.0 | #150 Distant C | 2 | |
| 0183.AGDra | 2 | 12:17 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0184.AGDra | 5 | 12:17 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0185.AGDra | 15 | 12:17 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0186.AGDra | 60 | 12:18 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0187.COMP | 5 | 12:19 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0188-0197.BIAS | 0 | 12:22 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #122 Halo Star | 4 | |
| 0198-0207.FLAT | 8 | 12:26 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #122 Halo Star | 4 | |
| 0208-0217.BIAS | 0 | 12:28 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #122 Halo Star | 2 | |
| 0218-0227.FLAT | 16 | 12:34 | 16:01:41 | 66:48:10 | 300 | 90 | 3.0 | #122 Halo Star | 2 | |