

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---|
| 0001.BIAS | 0 | 3:23 | 08:02:36.4 | +31:30:25 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | Voila! The ccd is working! Thanks to Wayne! |
| 0002-0005.BIAS | 0 | 3:23 | 08:03:05.8 | +31:30:25 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0006-0010.BIAS | 0 | 3:24 | 08:03:40.4 | +31:30:26 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0011-0018.FLAT | 6 | 3:26 | 08:06:00.7 | +31:30:26 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0019-0020.FLAT | 6 | 3:26 | 08:06:26.2 | +31:30:27 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0021-0030.BIAS | 0 | 3:29 | 08:08:51.1 | +31:30:27 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0031-0036.FLAT | 12 | 3:32 | 08:11:49.1 | +31:30:28 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0037-0040.FLAT | 12 | 3:33 | 08:13:26.8 | +31:30:29 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0041.HD84937 | 7 | 3:49 | 09:48:56.1 | 13:44:39 | 300 | -43 | 3.0 | #56 Spectropho | 2 | |
| 0042.HD84937 | 7 | 3:50 | 09:48:56.1 | 13:44:39 | 300 | -43 | 3.0 | #56 Spectropho | 2 | |
| 0043.HD84937 | 7 | 3:50 | 09:48:56.1 | 13:44:39 | 300 | -43 | 3.0 | #56 Spectropho | 2 | |
| 0044.COMP | 12 | 3:51 | 09:48:56.1 | 13:44:39 | 300 | -43 | 3.0 | #56 Spectropho | 2 | |
| 0045.Hiltner600 | 60 | 3:54 | 06:42:37.2 | 02:11:25 | 300 | 38 | 3.0 | #56 Spectropho | 2 | |
| 0046.Hiltner600 | 60 | 3:56 | 06:42:37.2 | 02:11:25 | 300 | 38 | 3.0 | #56 Spectropho | 2 | |
| 0047.COMP | 12 | 3:57 | 06:42:37.2 | 02:11:25 | 300 | 38 | 3.0 | #56 Spectropho | 2 | |
| 0048.PKS0736+017 | 1500 | 4:01 | 07:39:18.0 | +01:37:03 | 300 | 24 | 3.0 | #151 AGN Emiss | 2 | |
| 0049.COMP | 12 | 4:27 | 07:39:18.0 | +01:37:03 | 300 | 24 | 3.0 | #151 AGN Emiss | 2 | |
| 0050.PKS0745+241 | 1500 | 4:33 | 07:48:36.2 | +24:00:22 | 300 | 63 | 3.0 | #151 AGN Emiss | 2 | |
| 0051.PKS0745+241 | 1500 | 4:58 | 07:48:36.2 | +24:00:22 | 300 | 63 | 3.0 | #151 AGN Emiss | 2 | |
| 0052.COMP | 12 | 5:24 | 07:48:36.2 | +24:00:22 | 300 | 63 | 3.0 | #151 AGN Emiss | 2 | |

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0053.sn2004at | 1200 | 5:27 | 10:58:45.1 | +59:29:12 | 300 | 23 | 3.0 | #2 SN Observat | 2 | |
| 0054.COMP | 12 | 5:47 | 10:58:45.1 | +59:29:12 | 300 | 23 | 3.0 | #2 SN Observat | 2 | |
| 0055.sn2004as | 1200 | 5:51 | 11:25:39.1 | +22:49:49 | 300 | -45 | 3.0 | #2 SN Observat | 2 | |
| 0056.COMP | 12 | 6:12 | 11:25:39.1 | +22:49:49 | 300 | -45 | 3.0 | #2 SN Observat | 2 | |
| 0057.sn2004aw | 1200 | 6:16 | 11:57:50.2 | +25:15:55 | 300 | -60 | 3.0 | #2 SN Observat | 2 | |
| 0058.COMP | 12 | 6:36 | 11:57:50.2 | +25:15:55 | 300 | -60 | 3.0 | #2 SN Observat | 2 | |
| 0059.4C21.35 | 900 | 6:40 | 12:24:54.4 | +21:22:46 | 300 | -52 | 3.0 | #151 AGN Emiss | 2 | |
| 0060.4C21.35 | 900 | 6:55 | 12:24:54.4 | +21:22:46 | 300 | -52 | 3.0 | #151 AGN Emiss | 2 | |
| 0061.COMP | 12 | 7:11 | 12:24:54.4 | +21:22:46 | 300 | -52 | 3.0 | #151 AGN Emiss | 2 | |
| 0062.PKS1302-102 | 660 | 7:13 | 13:05:33.0 | -10:33:19 | 300 | -22 | 3.0 | #151 AGN Emiss | 2 | |
| 0063.COMP | 12 | 7:25 | 13:05:33.0 | -10:33:19 | 300 | -22 | 3.0 | #151 AGN Emiss | 2 | |
| 0064.HD84937 | 5 | 7:32 | 09:48:56.1 | 13:44:39 | 300 | 90 | 5.0 | #122 5arcsec s | 2 | 5arcsec, 300L, 619 tilt |
| 0065.HD84937 | 5 | 7:32 | 09:48:56.1 | 13:44:39 | 300 | 90 | 5.0 | #122 5arcsec s | 2 | |
| 0066.HD84937 | 5 | 7:33 | 09:48:56.1 | 13:44:39 | 300 | 90 | 5.0 | #122 5arcsec s | 2 | |
| 0067.COMP | 7 | 7:33 | 09:48:56.1 | 13:44:39 | 300 | 90 | 5.0 | #122 5arcsec s | 2 | |
| 0068.Feige34 | 60 | 7:35 | 10:36:41.2 | 43:21:50 | 300 | 90 | 5.0 | #56 Spectropho | 2 | 2arcsec, 600L, tilt=440 |
| 0069.Feige34 | 60 | 7:36 | 10:36:41.2 | 43:21:50 | 300 | 90 | 5.0 | #56 Spectropho | 2 | |
| 0070.COMP | 7 | 7:38 | 10:36:41.2 | 43:21:50 | 300 | 90 | 5.0 | #56 Spectropho | 2 | |
| 0071-0080.FLAT | 7 | 7:42 | 10:36:41.2 | 43:21:50 | 300 | 90 | 5.0 | #122 5arcsec s | 2 | |
| 0081.Feige34 | 90 | 7:49 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0082.COMP | 10 | 7:51 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0083.hs1762 | 360 | 7:53 | 10:55:57.2 | 17:39:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0084.COMP | 10 | 7:59 | 10:55:57.2 | 17:39:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0085.hs1763 | 312 | 8:00 | 10:56:10.9 | 27:38:27 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0086.COMP | 10 | 8:05 | 10:56:10.9 | 27:38:27 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0087.hs1764 | 210 | 8:06 | 10:56:18.0 | 16:50:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0088.COMP | 10 | 8:10 | 10:56:18.0 | 16:50:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0089.hs1766 | 384 | 8:12 | 10:57:06.6 | 33:59:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0090.COMP | 10 | 8:19 | 10:57:06.6 | 33:59:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0091.hs1767 | 390 | 8:20 | 10:57:13.5 | 18:33:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0092.COMP | 10 | 8:27 | 10:57:13.5 | 18:33:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0093.hs1768 | 552 | 8:28 | 10:57:26.5 | 45:07:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0094.COMP | 10 | 8:38 | 10:57:26.5 | 45:07:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0095.hs1769 | 192 | 8:39 | 10:57:43.6 | 38:46:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0096.COMP | 10 | 8:43 | 10:57:43.6 | 38:46:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0097.hs1782 | 378 | 8:44 | 11:02:20.8 | 24:27:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0098.COMP | 10 | 8:50 | 11:02:20.8 | 24:27:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0099.hs1783 | 444 | 8:52 | 11:02:42.8 | 38:33:20 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0100.COMP | 10 | 9:00 | 11:02:42.8 | 38:33:20 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0101.hs1784 | 162 | 9:01 | 11:03:01.9 | 23:37:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0102.COMP | 10 | 9:05 | 11:03:01.9 | 23:37:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0103.hs1786 | 198 | 9:06 | 11:03:08.7 | 22:58:55 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0104.COMP | 10 | 9:09 | 11:03:08.7 | 22:58:55 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0105.hs1787 | 252 | 9:10 | 11:03:12.3 | 11:13:53 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0106.COMP | 10 | 9:15 | 11:03:12.3 | 11:13:53 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0107.hs1788 | 552 | 9:16 | 11:03:36.9 | 16:42:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0108.COMP | 10 | 9:25 | 11:03:36.9 | 16:42:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0109.hs1789 | 192 | 9:26 | 11:03:43.2 | 14:32:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0110.COMP | 10 | 9:29 | 11:03:43.2 | 14:32:23 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0111.hs1790 | 492 | 9:31 | 11:03:47.5 | 22:13:01 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0112.COMP | 10 | 9:40 | 11:03:47.5 | 22:13:01 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0113.hs1791 | 336 | 9:41 | 11:04:09.7 | 29:27:20 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0114.COMP | 10 | 9:47 | 11:04:09.7 | 29:27:20 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0115.hs1794 | 294 | 9:48 | 11:04:34.2 | 27:50:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0116.COMP | 10 | 9:53 | 11:04:34.2 | 27:50:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0117.hs1795 | 324 | 9:54 | 11:04:59.4 | 14:04:51 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0118.COMP | 10 | 10:00 | 11:04:59.4 | 14:04:51 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0119.hs1796 | 174 | 10:01 | 11:05:06.8 | 34:28:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0120.COMP | 10 | 10:04 | 11:05:06.8 | 34:28:18 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0121.hs1797 | 210 | 10:06 | 11:06:03.5 | 13:36:54 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------|
| 0122.COMP | 10 | 10:10 | 11:06:03.5 | 13:36:54 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0123.hs2453 | 456 | 10:11 | 13:08:00.4 | 53:45:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0124.COMP | 10 | 10:19 | 13:08:00.4 | 53:45:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0125.hs2454 | 372 | 10:21 | 13:08:10.9 | 65:13:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0126.COMP | 10 | 10:27 | 13:08:10.9 | 65:13:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0127.hs2455 | 234 | 10:28 | 13:08:21.9 | 51:48:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0128.COMP | 10 | 10:33 | 13:08:21.9 | 51:48:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0129.hs2456 | 270 | 10:34 | 13:08:30.2 | 32:43:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0130.COMP | 10 | 10:39 | 13:08:30.2 | 32:43:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0131.hs2457 | 312 | 10:40 | 13:08:50.5 | 54:59:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0132.COMP | 10 | 10:46 | 13:08:50.5 | 54:59:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0133.hs2458 | 276 | 10:47 | 13:09:01.7 | 38:57:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0134.COMP | 10 | 10:52 | 13:09:01.7 | 38:57:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0135-0144.FLAT | 40 | 11:01 | 13:09:42.5 | 42:03:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0145.OR078 | 1500 | 11:30 | 15:49:29.4 | +02:37:01 | 300 | 8 | 3.0 | #151 AGN Emiss | 2 | combo setup |
| 0146.COMP | 12 | 11:56 | 15:49:29.4 | +02:37:01 | 300 | 8 | 3.0 | #151 AGN Emiss | 2 | |
| 0147.sn2004ao | 1200 | 12:02 | 17:28:09.3 | +07:24:55 | 300 | -22 | 3.0 | #2 SN Observat | 2 | |
| 0148.COMP | 12 | 12:23 | 17:28:09.3 | +07:24:55 | 300 | -22 | 3.0 | #2 SN Observat | 2 | |
| 0149.BDp332642 | 70 | 12:27 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0150.BDp332642 | 70 | 12:29 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |

UT Date 2004-03-23 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| <i>File</i> | <i>Exp Time</i> | <i>UT Start</i> | <i>RA</i> | <i>Dec</i> | <i>Gr.</i> | <i>P.A.</i> | <i>Slit</i> | <i>Program</i> | <i>Bir</i> | <i>Comments</i> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0151.COMP | 12 | 12:30 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0152.HatKepler | 70 | 12:36 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0153.HatKepler | 70 | 12:37 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0154.HatKepler | 70 | 12:39 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0155.COMP | 12 | 12:40 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0156-0165.BIAS | 0 | 12:47 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 4 | |
| 0166-0175.FLAT | 6 | 12:50 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 4 | |
| 0176-0185.BIAS | 0 | 12:54 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0186-0195.FLAT | 12 | 12:58 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |
| 0196-0205.DARK | 900 | 15:16 | 19:57:57.3 | 33:53:1 | 300 | 90 | 3.0 | #126 | 2 | |