

UT Date 2002-05-14 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001-0010.DARK | 900 | 1:20 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0011-0020.BIAS | 0 | 1:37 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0021-0030.FLAT | 6 | 1:40 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0031-0040.BIAS | 0 | 1:43 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0041-0050.FLAT | 12 | 1:49 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0051-0055.sky | 2 | 2:36 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0056.COMP | 5 | 2:36 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0057.Feige34 | 90 | 3:06 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0058.Feige34 | 90 | 3:07 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0059.COMP | 5 | 3:09 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0060.Feige34 | 90 | 3:10 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0061.Feige34 | 90 | 3:11 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0062.COMP | 12 | 3:13 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0063.Feige34 | 90 | 3:16 | 10:36:41.2 | 43:21:50 | 300 | -33 | 3.0 | #56 Spectropho | 2 | |
| 0064.Feige34 | 90 | 3:18 | 10:36:41.2 | 43:21:50 | 300 | -33 | 3.0 | #56 Spectropho | 2 | |
| 0065.COMP | 12 | 3:20 | 10:36:41.2 | 43:21:50 | 300 | -33 | 3.0 | #56 Spectropho | 2 | |
| 0066.sn2002cp | 1200 | 3:25 | 09:59:35.9 | +35:23:57 | 300 | 95 | 3.0 | #2 SN Observat | 2 | |
| 0067.COMP | 12 | 3:45 | 09:59:35.9 | +35:23:57 | 300 | 95 | 3.0 | #2 SN Observat | 2 | |
| 0068.sn2002bo | 1200 | 3:48 | 10:18:06.5 | +21:49:41 | 300 | 60 | 3.0 | #2 SN Observat | 2 | |
| 0069.COMP | 12 | 4:08 | 10:18:06.5 | +21:49:41 | 300 | 60 | 3.0 | #2 SN Observat | 2 | |

UT Date 2002-05-14 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0070.FLAT | 24 | 4:17 | 14:24:40.5 | +26:37:34 | 600 | 90 | 3.0 | #70f | 2 | 600L, 3arcsec, tilt=452 |
| 0071-0079.FLAT | 24 | 4:22 | 14:24:40.5 | +26:37:34 | 600 | 90 | 3.0 | #70f | 2 | |
| 0080.vcc1993 | 1800 | 4:27 | 12:41:41 | 13:12:54 | 600 | -10 | 3.0 | #70f Elliptica | 2 | |
| 0081.COMP | 20 | 4:58 | 12:41:41 | 13:12:54 | 600 | -10 | 3.0 | #70f Elliptica | 2 | |
| 0082.vcc1993 | 1800 | 4:59 | 12:41:41 | 13:12:54 | 600 | 11 | 3.0 | #70f Elliptica | 2 | |
| 0083.COMP | 20 | 5:30 | 12:41:41 | 13:12:54 | 600 | 11 | 3.0 | #70f Elliptica | 2 | |
| 0084.vcc1993 | 1800 | 5:31 | 12:41:41 | 13:12:54 | 600 | 28 | 3.0 | #70f Elliptica | 2 | |
| 0085.COMP | 20 | 6:01 | 12:41:41 | 13:12:54 | 600 | 28 | 3.0 | #70f Elliptica | 2 | |
| 0086.vcc1993 | 1800 | 6:03 | 12:41:41 | 13:12:54 | 600 | 41 | 3.0 | #70f Elliptica | 2 | |
| 0087.COMP | 20 | 6:33 | 12:41:41 | 13:12:54 | 600 | 41 | 3.0 | #70f Elliptica | 2 | |
| 0088.vcc1199 | 1800 | 6:36 | 12:27:2 | 8:20:6 | 600 | 47 | 3.0 | #70f Elliptica | 2 | |
| 0089.COMP | 20 | 7:06 | 12:27:2 | 8:20:6 | 600 | 47 | 3.0 | #70f Elliptica | 2 | |
| 0090.vcc1199 | 1800 | 7:07 | 12:27:2 | 8:20:6 | 600 | 52 | 3.0 | #70f Elliptica | 2 | |
| 0091.COMP | 12 | 7:38 | 12:27:2 | 8:20:6 | 600 | 52 | 3.0 | #70f Elliptica | 2 | |
| 0092.vcc1199 | 1800 | 7:40 | 12:27:2 | 8:20:6 | 600 | 55 | 3.0 | #70f Elliptica | 2 | |
| 0093.COMP | 20 | 8:11 | 12:27:2 | 8:20:6 | 600 | 55 | 3.0 | #70f Elliptica | 2 | |
| 0094-0103.FLAT | 40 | 8:21 | 12:27:2 | 8:20:6 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0104.BDp332642 | 120 | 8:24 | 15:50:03 | 33:05:49 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0105.COMP | 10 | 8:27 | 15:50:03 | 33:05:49 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0106.hs1049 | 1200 | 8:28 | 14:46:26.1 | 28:26:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2002-05-14 Observers M CalkinsColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------|----------|----------|------------|----------|-----|------|------|----------------|-----|--------------|
| 0107.COMP | 10 | 8:49 | 14:46:26.1 | 28:26:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0108.hs1050 | 1020 | 8:50 | 14:50:11.7 | 30:24:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0109.COMP | 10 | 9:07 | 14:50:11.7 | 30:24:02 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0110.hs1051 | 540 | 9:08 | 14:59:40.4 | 30:31:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0111.COMP | 10 | 9:17 | 14:59:40.4 | 30:31:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0112.hs1052 | 780 | 9:18 | 15:05:17.0 | 30:47:49 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0113.COMP | 10 | 9:32 | 15:05:17.0 | 30:47:49 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0114.hs1054 | 300 | 9:32 | 15:14:10.6 | 30:08:37 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0115.COMP | 10 | 9:38 | 15:14:10.6 | 30:08:37 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0116.hs1055 | 480 | 9:39 | 15:29:27.0 | 28:53:35 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0117.COMP | 10 | 9:47 | 15:29:27.0 | 28:53:35 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0118.hs1056 | 900 | 9:48 | 15:29:31.6 | 30:08:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0119.COMP | 10 | 10:04 | 15:29:31.6 | 30:08:19 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0120.hs1057 | 210 | 10:04 | 15:30:31.6 | 30:29:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0121.COMP | 10 | 10:08 | 15:30:31.6 | 30:29:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0122.hs1058 | 240 | 10:09 | 15:39:23.5 | 30:11:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0123.COMP | 10 | 10:13 | 15:39:23.5 | 30:11:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0124.J1901candiC | 1800 | 10:59 | 19:01:26.9 | 01:23:04 | 300 | 1 | 3.0 | #65 X-Ray Nova | 2 | normal setup |
| 0125.COMP | 12 | 11:30 | 19:01:26.9 | 01:23:04 | 300 | 1 | 3.0 | #65 X-Ray Nova | 2 | |
| 0126.BDp404032 | 90 | 11:34 | 20:06:40 | 41:06:15 | 300 | 35 | 3.0 | #56 Spectropho | 2 | |



UT Date 2002-05-14 Observers M Calkins

Coll. 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>Bin</i> | <i>Comments</i> |
|----------------|-----------------|-----------------|-----------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0127.COMP | 12 | 11:36 | 20:06:40 | 41:06:15 | 300 | 35 | 3.0 | #56 Spectropho | 2 | |
| 0128-0137.BIAS | 0 | 11:43 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0138-0147.FLAT | 6 | 11:46 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0148-0157.BIAS | 0 | 11:50 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0158-0167.FLAT | 12 | 11:54 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0168-0177.DARK | 900 | 14:15 | 20:06:40 | 41:06:15 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |