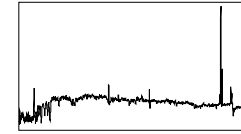
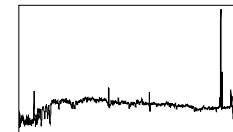
UT Date 2001-12-09 Observers W. BrownColl. Focus 1600 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|-----------|-----------|-----|------|------|----------------|-----|----------------------------|
| 0002-0010.BIAS | 0 | 19:07 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 4 | |
| 0011-0020.FLAT | 8 | 19:12 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 4 | |
| 0021-0030.BIAS | 0 | 19:18 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 2 | |
| 0031-0040.FLAT | 16 | 19:24 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 2 | |
| 0041.DARK | 900 | 19:24 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 2 | filled dewar 5:30pm |
| 0042-0050.DARK | 900 | 21:44 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 2 | |
| 0051.BIAS | 0 | 21:44 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 4 | winds down to 20mph |
| 0052-0060.BIAS | 0 | 0:31 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | #0 Calibratio | 4 | |
| 0061.SKY | 120 | 0:31 | 8:48:41.4 | 29:30:17 | 300 | 90 | 3.0 | | 4 | |
| 0062.SKY | 120 | 0:31 | 20:0:0 | 31:30:0 | 300 | 90 | 3.0 | | 4 | |
| 0063.COMP | 5 | 0:31 | 20:0:0 | 31:30:0 | 300 | 90 | 3.0 | | 4 | winds 40mph; closing |
| 0064.FLAT | 40 | 0:31 | 7:53:20.6 | +26:46:21 | 600 | 90 | 2.0 | #0 Calibratio | 4 | winds dropping to 30-40mph |
| 0065-0068.FLAT | 40 | 10:14 | 7:53:20.6 | +26:46:21 | 600 | 90 | 2.0 | #0 Calibratio | 4 | |
| 0069-0073.FLAT | 40 | 10:18 | 8:03:21.9 | +27:48:05 | 600 | 90 | 2.0 | #0 Calibratio | 4 | |
| 0074.hs533 | 900 | 10:18 | 8:48:41.4 | 29:30:17 | 600 | 90 | 2.0 | #122 Halo Star | 4 | moon is up |
| 0075.COMP | 10 | 10:18 | 8:48:41.4 | 29:30:17 | 600 | 90 | 2.0 | #122 Halo Star | 4 | 5 arcsec seeing |
| 0076.hs534 | 840 | 10:18 | 8:48:51.4 | 29:44:21 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0077.COMP | 10 | 10:18 | 8:48:51.4 | 29:44:21 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0078.hs535 | 1020 | 10:18 | 8:50:32.8 | 29:30:30 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0079.COMP | 10 | 10:18 | 8:50:32.8 | 29:30:30 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2001-12-09 Observers W. BrownColl. Focus 1600 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0080.hs536 | 1020 | 10:18 | 8:51:00.5 | 29:44:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0081.COMP | 10 | 10:18 | 8:51:00.5 | 29:44:48 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0082.hs537 | 720 | 10:18 | 8:53:10.1 | 29:33:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0083.COMP | 10 | 10:18 | 8:53:10.1 | 29:33:28 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0084.hs539 | 800 | 10:18 | 8:54:23.6 | 29:14:43 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0085.COMP | 10 | 10:18 | 8:54:23.6 | 29:14:43 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0086.hs540 | 720 | 10:18 | 8:54:40.8 | 29:22:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0087.COMP | 10 | 10:18 | 8:54:40.8 | 29:22:41 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0088.hs541 | 660 | 10:18 | 8:54:44.0 | 29:23:00 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0089.COMP | 10 | 10:18 | 8:54:44.0 | 29:23:00 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0090.hs542 | 600 | 10:18 | 8:54:54.6 | 29:21:01 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0091.COMP | 10 | 10:18 | 8:54:54.6 | 29:21:01 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0092.hs543 | 630 | 10:18 | 8:54:58.1 | 28:55:53 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0093.COMP | 10 | 10:18 | 8:54:58.1 | 28:55:53 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0094.hs547 | 300 | 10:18 | 8:55:43.9 | 29:14:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0095.COMP | 10 | 10:18 | 8:55:43.9 | 29:14:09 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0096.Feige34 | 120 | 10:18 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #56 Spectropho | 4 | |
| 0097.Feige34 | 120 | 10:18 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #56 Spectropho | 4 | |
| 0098.COMP | 10 | 10:18 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #56 Spectropho | 4 | |
| 0099-0108.FLAT | 40 | 13:17 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #0 Calibratio | 4 | |



UT Date 2001-12-09 Observers W. Brown

Coll. Focus 1600 Grating/Grism 600

| <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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0109-0118.BIAS | 0 | 13:20 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #0 Calibratio | 4 | |
| 0119-0128.DARK | 900 | 15:36 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #0 Calibratio | 4 | |