



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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UT Date 2004-03-22 Observers M Calkins

Coll. Focus 980 Grating/Grism 300

| File            | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001.DARK       | 900      | 1:03     | 05:53:19.5 | +31:29:40 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0002.DARK       | 900      | 1:18     | 06:08:28.8 | +31:29:45 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0003.DARK       | 900      | 1:33     | 06:23:38.4 | +31:29:51 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0004.DARK       | 900      | 1:48     | 06:38:45.1 | +31:29:56 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0005-0014.BIAS  | 0        | 2:04     | 06:40:09.8 | +31:29:56 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0015-0024.FLAT  | 6        | 2:07     | 06:42:56.4 | +31:29:57 | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0025-0034.BIAS  | 0        | 2:10     | 06:45:21.1 | +31:29:58 | 300 | 90   | 3.0  | #56 Spectropho | 2   |          |
| 0035-0039.FLAT  | 12       | 2:18     | 06:53:59.8 | +31:30:01 | 300 | 90   | 3.0  | #56 Spectropho | 2   |          |
| 0040-0044.FLAT  | 12       | 2:20     | 06:56:02.8 | +31:30:02 | 300 | 90   | 3.0  | #56 Spectropho | 2   |          |
| 0045.Hiltner600 | 60       | 3:33     | 06:42:37.2 | 02:11:25  | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0046.Hiltner600 | 60       | 3:34     | 06:42:37.2 | 02:11:25  | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0047.COMP       | 5        | 3:35     | 06:42:37.2 | 02:11:25  | 300 | 90   | 3.0  | #56 Spectropho | 4   |          |
| 0048.Hiltner600 | 60       | 3:37     | 06:42:37.2 | 02:11:25  | 300 | 32   | 3.0  | #56 Spectropho | 2   |          |
| 0049.Hiltner600 | 60       | 3:39     | 06:42:37.2 | 02:11:25  | 300 | 32   | 3.0  | #56 Spectropho | 2   |          |
| 0050.COMP       | 12       | 3:40     | 06:42:37.2 | 02:11:25  | 300 | 32   | 3.0  | #56 Spectropho | 2   |          |
| 0051.vso-79804  | 900      | 3:46     | 05:31:32.4 | +01:58:17 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |          |
| 0052.COMP       | 12       | 4:01     | 05:31:32.4 | +01:58:17 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |          |
| 0053.vso-80094  | 1200     | 4:04     | 05:33:00.3 | +01:24:32 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |          |
| 0054.COMP       | 12       | 4:24     | 05:33:00.3 | +01:24:32 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |          |
| 0055.vso-81279  | 1020     | 4:26     | 05:32:27.7 | +01:34:36 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |          |



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Coll. Focus 980 Grating/Grism 300

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|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0056.COMP      | 12       | 4:43     | 05:32:27.7 | +01:34:36 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |                 |
| 0057.vso-82063 | 1200     | 4:44     | 05:34:03.9 | +01:25:41 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |                 |
| 0058.COMP      | 12       | 5:05     | 05:34:03.9 | +01:25:41 | 300 | 90   | 3.0  | #112 Orion PMS | 2   |                 |
| 0059.N3227     | 150      | 5:07     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                 |
| 0060.N3227     | 150      | 5:10     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                 |
| 0061.COMP      | 12       | 5:13     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                 |
| 0062.HD84937   | 7        | 5:18     | 09:48:56.1 | 13:44:39  | 300 | 2    | 3.0  | #56 Spectropho | 2   |                 |
| 0063.HD84937   | 7        | 5:18     | 09:48:56.1 | 13:44:39  | 300 | 2    | 3.0  | #56 Spectropho | 2   |                 |
| 0064.HD84937   | 7        | 5:18     | 09:48:56.1 | 13:44:39  | 300 | 2    | 3.0  | #56 Spectropho | 2   |                 |
| 0065.COMP      | 12       | 5:19     | 09:48:56.1 | 13:44:39  | 300 | 2    | 3.0  | #56 Spectropho | 2   |                 |
| 0066.sn2004at  | 1200     | 5:22     | 10:58:45.1 | +59:29:12 | 300 | 27   | 3.0  | #2 SN Observat | 2   | ccd troubles... |
| 0067.COMP      | 12       | 5:42     | 10:58:45.1 | +59:29:12 | 300 | 27   | 3.0  | #2 SN Observat | 2   | get again       |
| 0068.sn2004at  | 1200     | 6:00     | 10:58:45.1 | +59:29:12 | 300 | 11   | 3.0  | #2 SN Observat | 2   |                 |
| 0069.COMP      | 12       | 6:21     | 10:58:45.1 | +59:29:12 | 300 | 11   | 3.0  | #2 SN Observat | 2   |                 |
| 0070.COMP      | 12       | 6:29     | 11:05:23.7 | +31:31:13 | 300 | 11   | 3.0  | #2 SN Observat | 2   |                 |
| 0071.BIAS      | 0        | 7:38     | 12:14:55.3 | +31:31:20 | 300 | 11   | 3.0  | #112 Orion PMS | 2   |                 |
| 0072.COMP      | 12       | 7:39     | 12:15:58.4 | +31:31:20 | 300 | 11   | 3.0  | #112 Orion PMS | 2   |                 |
| 0073.COMP      | 12       | 7:45     | 12:22:12.6 | +31:31:21 | 300 | 11   | 3.0  | #112 Orion PMS | 2   |                 |
| 0074.BIAS      | 0        | 7:52     | 12:29:15.6 | +31:31:21 | 300 | 11   | 3.0  | #112 Orion PMS | 2   |                 |
| 0075.COMP      | 12       | 7:53     | 12:30:11.6 | +31:31:21 | 300 | 11   | 3.0  | #112 Orion PMS | 2   |                 |



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| <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> |
|-------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0076.BIAS   | 0               | 8:40            | 13:17:21.0 | +31:31:20  | 300        | 90          | 3.0         | #112 Orion PMS | 2          |                 |
| 0077.COMP   | 12              | 8:41            | 13:18:03.8 | +31:31:20  | 300        | 90          | 3.0         | #112 Orion PMS | 2          |                 |
| 0078.BIAS   | 0               | 8:48            | 13:24:30.8 | +31:31:20  | 300        | 90          | 3.0         | #112 Orion PMS | 2          |                 |
| 0079.COMP   | 12              | 8:51            | 13:27:50.4 | +31:31:20  | 300        | 90          | 3.0         | #112 Orion PMS | 2          |                 |