

UT Date 2001-04-23 Observers M CalkinsColl. Focus 1125 Grating/Grism 600

| File                 | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bir | Comments      |
|----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---------------|
| 1-10.DARK            | 900      | 22:50    | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 11-20.BIAS           | 0        | 1:28     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 21-30.FLAT           | 6        | 1:31     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 31-40.BIAS           | 0        | 1:34     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 41-50.FLAT           | 12       | 1:37     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 51-55.sky            | 2        | 2:01     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 0056.COMP            | 5        | 2:12     | 15:50:03   | 33:05:49  | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 0057.Feige34         | 90       | 2:48     | 10:36:41.2 | 43:21:50  | 300 | 90   | 3.0  | #56 Spectropho |     |               |
| 0058.Feige34         | 90       | 2:50     | 10:36:41.2 | 43:21:50  | 300 | 90   | 3.0  | #56 Spectropho |     |               |
| 0059.COMP            | 5        | 2:52     | 10:36:41.2 | 43:21:50  | 300 | 90   | 3.0  | #56 Spectropho |     |               |
| 0060.Feige34         | 90       | 3:00     | 10:36:41.2 | 43:21:50  | 300 | 54   | 3.0  | #56 Spectropho |     |               |
| 0061.Feige34         | 90       | 3:02     | 10:36:41.2 | 43:21:50  | 300 | 54   | 3.0  | #56 Spectropho |     |               |
| 0062.COMP            | 12       | 3:04     | 10:36:41.2 | 43:21:50  | 300 | 54   | 3.0  | #56 Spectropho |     |               |
| 0063.WILSON6377      | 15       | 3:05     | 09:58:18   | +55:50:00 | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 0064.COMP            | 12       | 3:06     | 09:58:18   | +55:50:00 | 300 | 90   | 3.0  | #57 Velocity S |     |               |
| 0065.2M060215m090652 | 1020     | 3:12     | 06:02:15.5 | -09:06:52 | 300 | 90   | 3.0  | #68 2MASS Reds |     | row=79, faint |
| 0066.COMP            | 12       | 3:30     | 06:02:15.5 | -09:06:52 | 300 | 90   | 3.0  | #68 2MASS Reds |     |               |
| 0067.2M061759m013756 | 720      | 3:32     | 06:17:59.1 | -01:37:56 | 300 | 90   | 3.0  | #68 2MASS Reds |     | row=77        |
| 0068.COMP            | 12       | 3:45     | 06:17:59.1 | -01:37:56 | 300 | 90   | 3.0  | #68 2MASS Reds |     |               |
| 0069.2M063336m072320 | 480      | 3:47     | 06:33:36.3 | -07:23:20 | 300 | 90   | 3.0  | #68 2MASS Reds |     |               |

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| File                 | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bir | Comments |
|----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0070.COMP            | 12       | 3:56     | 06:33:36.3 | -07:23:20 | 300 | 90   | 3.0  | #68 2MASS Reds |     |          |
| 0071.2M063544m012548 | 480      | 3:58     | 06:35:44.7 | -01:25:48 | 300 | 90   | 3.0  | #68 2MASS Reds |     |          |
| 0072.COMP            | 12       | 4:06     | 06:35:44.7 | -01:25:48 | 300 | 90   | 3.0  | #68 2MASS Reds |     |          |
| 0073.BGGem           | 180      | 4:08     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     |     |          |
| 0074.BGGem           | 900      | 4:12     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     |     |          |
| 0075.COMP            | 12       | 4:27     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     |     |          |
| 0076.sn2001G         | 1200     | 4:31     | 09:09:33.1 | +50:16:51 | 300 | 110  | 3.0  | #2 SN Observat |     |          |
| 0077.COMP            | 12       | 4:51     | 09:09:33.1 | +50:16:51 | 300 | 110  | 3.0  | #2 SN Observat |     |          |
| 0078.SN2001V         | 1200     | 4:57     | 11:57:25.0 | 25:12:10  | 300 | -34  | 3.0  | #2 SN Observat |     |          |
| 0079.COMP            | 12       | 5:17     | 11:57:25.0 | 25:12:10  | 300 | -34  | 3.0  | #2 SN Observat |     |          |
| 80-89.FLAT           | 40       | 5:23     | 11:57:25.0 | 25:12:10  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0090.hs222           | 360      | 5:34     | 12:14:46.6 | 29:00:17  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0091.COMP            | 5        | 5:41     | 12:14:46.6 | 29:00:17  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0092.Feige34         | 120      | 5:42     | 10:36:41.2 | 43:21:50  | 600 | 90   | 2.0  | #56 Spectropho |     |          |
| 0093.COMP            | 5        | 5:45     | 10:36:41.2 | 43:21:50  | 600 | 90   | 2.0  | #56 Spectropho |     |          |
| 0094.hs223           | 480      | 5:46     | 12:16:33.6 | 29:13:43  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0095.COMP            | 5        | 5:54     | 12:16:33.6 | 29:13:43  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0096.hs224           | 330      | 5:55     | 12:16:49.8 | 28:56:06  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0097.COMP            | 5        | 6:01     | 12:16:49.8 | 28:56:06  | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0098.hs225           | 720      | 6:02     | 12:18:26.6 | 29:23:26  | 600 | 90   | 2.0  | #122 Halo Star |     |          |

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| File       | Exp Time | UT Start | RA         | Dec      | Gr. | P.A. | Slit | Program        | Bir | Comments |
|------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0099.COMP  | 5        | 6:14     | 12:18:26.6 | 29:23:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0100.hs226 | 840      | 6:15     | 12:20:24.3 | 29:23:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0101.COMP  | 5        | 6:29     | 12:20:24.3 | 29:23:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0102.hs227 | 330      | 6:30     | 12:21:19.4 | 28:58:25 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0103.COMP  | 5        | 6:36     | 12:21:19.4 | 28:58:25 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0104.hs228 | 660      | 6:37     | 12:21:32.4 | 28:53:59 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0105.COMP  | 5        | 6:48     | 12:21:32.4 | 28:53:59 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0106.hs229 | 360      | 6:49     | 12:22:30.0 | 29:19:08 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0107.COMP  | 5        | 6:55     | 12:22:30.0 | 29:19:08 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0108.hs230 | 840      | 6:56     | 12:23:09.6 | 29:35:03 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0109.COMP  | 5        | 7:10     | 12:23:09.6 | 29:35:03 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0110.hs231 | 710      | 7:11     | 12:23:54.2 | 29:42:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0111.COMP  | 5        | 7:23     | 12:23:54.2 | 29:42:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0112.hs232 | 420      | 7:24     | 12:24:29.1 | 29:41:39 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0113.COMP  | 5        | 7:31     | 12:24:29.1 | 29:41:39 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0114.hs233 | 900      | 7:32     | 12:24:33.1 | 28:57:48 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0115.COMP  | 5        | 7:48     | 12:24:33.1 | 28:57:48 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0116.hs234 | 660      | 7:49     | 12:26:08.1 | 29:17:54 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0117.COMP  | 5        | 8:00     | 12:26:08.1 | 29:17:54 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0118.hs235 | 420      | 8:01     | 12:26:36.6 | 29:22:19 | 600 | 90   | 2.0  | #122 Halo Star |     |          |

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|------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0119.COMP  | 5        | 8:09     | 12:26:36.6 | 29:22:19 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0120.hs236 | 1200     | 8:10     | 12:26:37.3 | 28:49:23 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0121.COMP  | 5        | 8:30     | 12:26:37.3 | 28:49:23 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0122.hs237 | 360      | 8:31     | 12:27:37.4 | 29:17:49 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0123.COMP  | 5        | 8:37     | 12:27:37.4 | 29:17:49 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0124.hs238 | 1200     | 8:38     | 12:27:56.5 | 29:31:15 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0125.COMP  | 5        | 8:58     | 12:27:56.5 | 29:31:15 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0126.hs261 | 780      | 8:59     | 12:43:39.0 | 29:31:49 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0127.COMP  | 5        | 9:12     | 12:43:39.0 | 29:31:49 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0128.hs262 | 570      | 9:13     | 12:44:15.7 | 29:26:51 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0129.COMP  | 5        | 9:23     | 12:44:15.7 | 29:26:51 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0130.hs263 | 330      | 9:24     | 12:45:11.1 | 29:36:52 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0131.COMP  | 5        | 9:30     | 12:45:11.1 | 29:36:52 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0132.hs264 | 1200     | 9:31     | 12:45:26.6 | 29:26:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0133.COMP  | 5        | 9:51     | 12:45:26.6 | 29:26:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0134.hs265 | 240      | 9:52     | 12:45:42.8 | 29:26:15 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0135.COMP  | 5        | 9:56     | 12:45:42.8 | 29:26:15 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0136.hs266 | 240      | 9:57     | 12:45:46.4 | 29:38:20 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0137.COMP  | 5        | 10:01    | 12:45:46.4 | 29:38:20 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0138.hs267 | 1200     | 10:02    | 12:46:13.8 | 28:48:58 | 600 | 90   | 2.0  | #122 Halo Star |     |          |

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|-----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0139.COMP       | 5        | 10:23    | 12:46:13.8 | 28:48:58 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0140.hs268      | 300      | 10:23    | 12:46:14.5 | 29:30:36 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0141.COMP       | 5        | 10:29    | 12:46:14.5 | 29:30:36 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0142.hs269      | 600      | 10:29    | 12:46:24.6 | 29:33:19 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0143.COMP       | 5        | 10:40    | 12:46:24.6 | 29:33:19 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0144.hs270      | 420      | 10:41    | 12:46:49.4 | 28:51:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0145.COMP       | 5        | 10:48    | 12:46:49.4 | 28:51:26 | 600 | 90   | 2.0  | #122 Halo Star |     |          |
| 0146.nrgs388.n1 | 600      | 10:53    | 16:19:41.8 | 37:48:22 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0147.COMP       | 5        | 11:04    | 16:19:41.8 | 37:48:22 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0148.nrgs388.n2 | 600      | 11:07    | 16:19:44.7 | 38:14:03 | 300 | 90   | 3.0  | #59 X-Ray Grou |     | row=75   |
| 0149.COMP       | 12       | 11:18    | 16:19:44.7 | 38:14:03 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0150.nrgs388.n3 | 180      | 11:19    | 16:19:48.0 | 37:46:27 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0151.COMP       | 12       | 11:22    | 16:19:48.0 | 37:46:27 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0152.nrgs388.n4 | 180      | 11:23    | 16:21:43.3 | 37:59:45 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0153.COMP       | 12       | 11:27    | 16:21:43.3 | 37:59:45 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0154.nrgs388.n5 | 360      | 11:28    | 16:22:34.9 | 38:22:01 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0155.COMP       | 12       | 11:34    | 16:22:34.9 | 38:22:01 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0156.nrgs388.n6 | 300      | 11:35    | 16:22:47.0 | 37:33:15 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0157.COMP       | 12       | 11:41    | 16:22:47.0 | 37:33:15 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |
| 0158.nrgs388.n7 | 180      | 11:46    | 16:23:03.0 | 37:55:20 | 300 | 90   | 3.0  | #59 X-Ray Grou |     |          |

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|-----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0159.COMP       | 12              | 11:49           | 16:23:03.0 | 37:55:20   | 300        | 90          | 3.0         | #59 X-Ray Grou |            |                 |
| 0160.nrgs388.n8 | 300             | 11:50           | 16:23:21.0 | 37:15:30   | 300        | 90          | 3.0         | #59 X-Ray Grou |            |                 |
| 0161.COMP       | 12              | 11:56           | 16:23:21.0 | 37:15:30   | 300        | 90          | 3.0         | #59 X-Ray Grou |            |                 |
| 0162.BDp332642  | 60              | 12:06           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 0163.COMP       | 12              | 12:08           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 164-173.BIAS    | 0               | 12:09           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 174-183.FLAT    | 6               | 12:12           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 184-193.BIAS    | 0               | 12:15           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 194-203.FLAT    | 12              | 12:18           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |
| 204-213.DARK    | 900             | 12:23           | 15:50:03   | 33:05:49   | 300        | 90          | 3.0         | #56 Spectropho |            |                 |