

UT Date 2012-05-14 Observers IrwinColl. Focus 1310 Grating/Grism 300

| File            | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments  |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------|
| 0001-0005.DARK  | 900      | 00:05    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0006-0010.DARK  | 900      | 01:21    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 4   |           |
| 0011.BIAS       | 0        | 01:43    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 4   | std setup |
| 0012-0020.BIAS  | 0        | 01:44    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 4   |           |
| 0021-0030.FLAT  | 4        | 01:46    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 4   |           |
| 0031-0040.BIAS  | 0        | 01:48    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0041-0055.FLAT  | 7        | 01:53    | 22:11:31.4 | +18:05:34 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0056.HD84937    | 20       | 02:30    | 09:48:56.1 | +13:44:39 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0057.COMP       | 10       | 02:31    | 09:48:56.1 | +13:44:39 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0058.HD84937    | 20       | 02:31    | 09:48:56.1 | +13:44:39 | 300 | 90   | 3.0  | #56 Spectropho | 2   |           |
| 0059.HD96971    | 40       | 02:34    | 11:11:28.9 | +73:06:55 | 300 | 90   | 3.0  | #57 Velocity S | 2   |           |
| 0060.COMP       | 10       | 02:35    | 11:11:28.9 | +73:06:55 | 300 | 90   | 3.0  | #57 Velocity S | 2   |           |
| 0061.HD96971    | 40       | 02:36    | 11:11:28.9 | +73:06:55 | 300 | 90   | 3.0  | #57 Velocity S | 2   |           |
| 0062.N233110357 | 90       | 02:42    | 08:27:13.6 | +41:28:33 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |           |
| 0063.COMP       | 10       | 02:44    | 08:27:13.6 | +41:28:33 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |           |
| 0064.N231310224 | 120      | 02:46    | 08:30:38.5 | +14:07:13 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |           |
| 0065.COMP       | 10       | 02:48    | 08:30:38.5 | +14:07:13 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |           |
| 0066.N3377      | 300      | 02:50    | 10:47:42.4 | +13:59:08 | 300 | 90   | 3.0  | #57 Velocity S | 2   |           |
| 0067.COMP       | 10       | 02:55    | 10:47:42.4 | +13:59:08 | 300 | 90   | 3.0  | #57 Velocity S | 2   |           |
| 0068.Feige34    | 180      | 02:57    | 10:39:36.7 | +43:06:09 | 300 | 88   | 3.0  | #56 Spectropho | 2   |           |

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| File            | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments                      |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------------|
| 0069.COMP       | 10       | 03:01    | 10:39:36.7 | +43:06:09 | 300 | 88   | 3.0  | #56 Spectropho | 2   |                               |
| 0070.N233031012 | 180      | 03:02    | 09:34:08.8 | +26:28:05 | 300 | 88   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0071.COMP       | 10       | 03:06    | 09:34:08.8 | +26:28:05 | 300 | 88   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0072.N233012397 | 1200     | 03:08    | 09:53:10.0 | +33:53:53 | 300 | 88   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0073.COMP       | 10       | 03:29    | 09:53:10.0 | +33:53:53 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0074.HD96700    | 3        | 03:32    | 11:07:54.0 | -30:10:28 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0075.HD96700    | 3        | 03:32    | 11:07:54.0 | -30:10:28 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0076.HD96700    | 3        | 03:32    | 11:07:54.0 | -30:10:28 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0077.COMP       | 10       | 03:33    | 11:07:54.0 | -30:10:28 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0078.2004_EW9   | 720      | 03:36    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   | target at pixel 75 throughout |
| 0079.COMP       | 10       | 03:49    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0080.2004_EW9   | 720      | 03:49    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0081.COMP       | 10       | 04:02    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0082.2004_EW9   | 720      | 04:02    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0083.COMP       | 10       | 04:15    | 10:57:18.3 | -25:26:43 | 300 | 33   | 3.0  | #173 Taxonomic | 2   |                               |
| 0084.S120311313 | 45       | 04:18    | 11:42:25.6 | -07:37:34 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0085.COMP       | 10       | 04:19    | 11:42:25.6 | -07:37:34 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0086.N200010290 | 180      | 04:21    | 11:55:59.3 | +08:49:45 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0087.COMP       | 10       | 04:24    | 11:55:59.3 | +08:49:45 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                               |
| 0088.N123132217 | 15       | 04:26    | 12:27:57.9 | +18:48:08 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                               |

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| File            | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments                 |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------------|
| 0089.COMP       | 10       | 04:26    | 12:27:57.9 | +18:48:08 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0090.S200113023 | 45       | 04:28    | 12:28:08.4 | -14:02:43 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0091.COMP       | 10       | 04:29    | 12:28:08.4 | -14:02:43 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0092.N120223072 | 540      | 04:31    | 12:28:58.3 | +13:51:45 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   | seeing fair              |
| 0093.COMP       | 10       | 04:40    | 12:28:58.3 | +13:51:45 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0094.S200333388 | 720      | 04:42    | 12:31:09.6 | -07:20:40 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   | bit weak, so got another |
| 0095.COMP       | 10       | 04:55    | 12:31:09.6 | -07:20:40 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0096.S200333388 | 720      | 04:55    | 12:31:09.6 | -07:20:40 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0097.COMP       | 10       | 05:08    | 12:31:09.6 | -07:20:40 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                          |
| 0098.bcg050     | 480      | 05:09    | 12:29:53.9 | +10:20:17 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0099.COMP       | 10       | 05:18    | 12:29:53.9 | +10:20:17 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0100.hbcg022    | 900      | 05:20    | 12:30:46.1 | +10:33:17 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0101.COMP       | 10       | 05:35    | 12:30:46.1 | +10:33:17 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0102.hbcg023    | 600      | 05:36    | 12:31:48.8 | +10:20:27 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0103.COMP       | 10       | 05:47    | 12:31:48.8 | +10:20:27 | 300 | 89   | 3.0  | #210 Brightest | 2   |                          |
| 0104.hbcg025    | 1200     | 05:51    | 13:11:30.1 | -01:20:28 | 300 | 110  | 3.0  | #210 Brightest | 2   |                          |
| 0105.COMP       | 10       | 06:11    | 13:11:30.1 | -01:20:28 | 300 | 110  | 3.0  | #210 Brightest | 2   |                          |
| 0106.hbcg028    | 1200     | 06:13    | 13:35:20.1 | +41:00:04 | 300 | 90   | 3.0  | #210 Brightest | 2   |                          |
| 0107.COMP       | 10       | 06:34    | 13:35:20.1 | +41:00:04 | 300 | 90   | 3.0  | #210 Brightest | 2   |                          |
| 0108.sn2012bm   | 1800     | 06:37    | 13:05:45.7 | +46:27:53 | 300 | 45   | 3.0  | #2 SN Observat | 2   |                          |

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| File           | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments                  |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---------------------------|
| 0109.COMP      | 10       | 07:07    | 13:05:45.7 | +46:27:53 | 300 | 45   | 3.0  | #2 SN Observat | 2   |                           |
| 0110.hbcg029   | 2400     | 07:12    | 14:21:24.8 | +37:06:54 | 300 | 90   | 3.0  | #210 Brightest | 2   |                           |
| 0111.COMP      | 10       | 07:53    | 14:21:24.8 | +37:06:54 | 300 | 90   | 3.0  | #210 Brightest | 2   |                           |
| 0112.hbcg039   | 841      | 07:59    | 15:16:51.5 | +00:13:42 | 300 | 89   | 3.0  | #210 Brightest | 2   |                           |
| 0113.COMP      | 10       | 08:13    | 15:16:51.5 | +00:13:42 | 300 | 89   | 3.0  | #210 Brightest | 2   |                           |
| 0114.hbcg040   | 1200     | 08:15    | 15:18:45.0 | +06:16:27 | 300 | 70   | 3.0  | #210 Brightest | 2   |                           |
| 0115.COMP      | 10       | 08:35    | 15:18:45.0 | +06:16:27 | 300 | 70   | 3.0  | #210 Brightest | 2   |                           |
| 0116.hbcg041   | 1800     | 08:38    | 16:40:08.3 | +47:09:38 | 300 | 86   | 3.0  | #210 Brightest | 2   |                           |
| 0117.COMP      | 10       | 09:09    | 16:40:08.3 | +47:09:38 | 300 | 86   | 3.0  | #210 Brightest | 2   |                           |
| 0118.bcg079    | 1500     | 09:12    | 16:01:11.9 | +53:56:55 | 300 | 87   | 3.0  | #210 Brightest | 2   |                           |
| 0119.COMP      | 10       | 09:38    | 16:01:11.9 | +53:56:55 | 300 | 87   | 3.0  | #210 Brightest | 2   |                           |
| 0120.K2437060  | 1800     | 09:41    | 19:20:47.9 | +37:46:37 | 300 | 87   | 3.0  | #192 DASCH Lon | 2   | target is the one at y 73 |
| 0121.COMP      | 10       | 10:11    | 19:20:47.9 | +37:46:37 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0122.K11862915 | 180      | 10:13    | 19:24:57.3 | +50:10:49 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0123.COMP      | 10       | 10:16    | 19:24:57.3 | +50:10:49 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0124.K11862915 | 180      | 10:17    | 19:24:57.3 | +50:10:49 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0125.K2708156  | 90       | 10:21    | 19:21:08.9 | +37:56:11 | 300 | 91   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0126.COMP      | 10       | 10:23    | 19:21:08.9 | +37:56:11 | 300 | 91   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0127.K8387281  | 1200     | 10:25    | 19:54:08.1 | +44:22:17 | 300 | 61   | 3.0  | #192 DASCH Lon | 2   |                           |
| 0128.COMP      | 10       | 10:46    | 19:54:08.1 | +44:22:17 | 300 | 61   | 3.0  | #192 DASCH Lon | 2   |                           |

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| File           | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0129.K11913071 | 30       | 10:47    | 19:24:14.7 | +50:15:20 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |          |
| 0130.COMP      | 10       | 10:48    | 19:24:14.7 | +50:15:20 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |          |
| 0131.K2437762  | 900      | 10:51    | 19:21:00.0 | +37:46:03 | 300 | 73   | 3.0  | #192 DASCH Lon | 2   |          |
| 0132.COMP      | 10       | 11:07    | 19:21:00.0 | +37:46:03 | 300 | 73   | 3.0  | #192 DASCH Lon | 2   |          |
| 0133.K2437762  | 900      | 11:07    | 19:21:00.0 | +37:46:03 | 300 | 72   | 3.0  | #192 DASCH Lon | 2   |          |
| 0134.K8171171  | 360      | 11:23    | 19:34:53.9 | +44:01:55 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |          |
| 0135.COMP      | 10       | 11:30    | 19:34:53.9 | +44:01:55 | 300 | 90   | 3.0  | #192 DASCH Lon | 2   |          |
| 0136.K05471548 | 240      | 11:31    | 19:50:43.7 | +40:40:44 | 300 | 87   | 3.0  | #192 DASCH Lon | 2   |          |
| 0137.COMP      | 10       | 11:36    | 19:50:43.7 | +40:40:44 | 300 | 87   | 3.0  | #192 DASCH Lon | 2   |          |
| 0138.K10047202 | 240      | 11:37    | 20:13:37.1 | +46:54:24 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |          |
| 0139.COMP      | 10       | 11:41    | 20:13:37.1 | +46:54:24 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |          |
| 0140.BDp404032 | 120      | 11:43    | 20:08:24.1 | +41:15:04 | 300 | 89   | 3.0  | #56 Spectropho | 2   |          |
| 0141.COMP      | 10       | 11:45    | 20:08:24.1 | +41:15:04 | 300 | 89   | 3.0  | #56 Spectropho | 2   |          |
| 0142.BDp174708 | 90       | 11:47    | 22:11:31.4 | +18:05:34 | 300 | 89   | 3.0  | #56 Spectropho | 2   |          |
| 0143.BDp174708 | 90       | 11:49    | 22:11:31.4 | +18:05:34 | 300 | 89   | 3.0  | #56 Spectropho | 2   |          |
| 0144.COMP      | 10       | 11:51    | 22:11:31.4 | +18:05:34 | 300 | 89   | 3.0  | #56 Spectropho | 2   |          |
| 0145.K09859386 | 5        | 11:53    | 20:05:25.7 | +46:40:19 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |          |
| 0146.K09859386 | 10       | 11:53    | 20:05:25.7 | +46:40:19 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |          |
| 0147.COMP      | 10       | 11:53    | 20:05:25.7 | +46:40:19 | 300 | 89   | 3.0  | #192 DASCH Lon | 2   |          |
| 0148.K00987291 | 5        | 11:55    | 20:13:50.3 | +36:37:23 | 300 | 89   | 3.0  | #192 DASCH Lon | 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>Bin</i> | <i>Comments</i> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0149.K00987291 | 10              | 11:55           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 2          |                 |
| 0150.COMP      | 10              | 11:56           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 2          |                 |
| 0151-0160.BIAS | 0               | 12:00           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 4          |                 |
| 0161-0170.FLAT | 4               | 12:02           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 4          |                 |
| 0171-0180.BIAS | 0               | 12:04           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 2          |                 |
| 0181-0195.FLAT | 7               | 12:08           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 2          |                 |
| 0196-0200.DARK | 900             | 13:17           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 2          |                 |
| 0201-0205.DARK | 900             | 14:33           | 20:13:50.3 | +36:37:23  | 300        | 89          | 3.0         | #192 DASCH Lon | 4          |                 |