

UT Date 2002-03-17 Observers M CalkinsColl. Focus 960 Grating/Grism 300

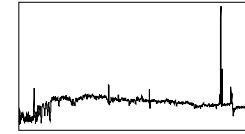
| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0001-0010.DARK | 900 | 1:00 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #131 FSVS | 4 | |
| 0011-0020.BIAS | 0 | 1:24 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #131 FSVS | 4 | |
| 0021-0030.FLAT | 6 | 1:28 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #131 FSVS | 4 | |
| 0031-0040.BIAS | 0 | 1:30 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #131 FSVS | 2 | |
| 0041-0050.FLAT | 12 | 1:34 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #131 FSVS | 2 | |
| 0051-0055.sky | 2 | 1:44 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0056.COMP | 12 | 1:44 | 15:05:07.2 | +55:57:18 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0057.Hiltner600 | 50 | 2:21 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 4 | Lot |
| 0058.Hiltner600 | 50 | 2:22 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 4 | But great seeing! |
| 0059.COMP | 5 | 2:23 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0060.Hiltner600 | 50 | 2:24 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0061.Hiltner600 | 50 | 2:25 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0062.COMP | 12 | 2:27 | 06:42:37.2 | 02:11:25 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0063.Hiltner600 | 50 | 2:29 | 06:42:37.2 | 02:11:25 | 300 | -2 | 3.0 | #56 Spectropho | 2 | |
| 0064.Hiltner600 | 50 | 2:30 | 06:42:37.2 | 02:11:25 | 300 | -2 | 3.0 | #56 Spectropho | 2 | |
| 0065.COMP | 12 | 2:31 | 06:42:37.2 | 02:11:25 | 300 | -2 | 3.0 | #56 Spectropho | 2 | |
| 0066.BGGem | 660 | 2:33 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |
| 0067.COMP | 12 | 2:45 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |
| 0068.BGGem | 1200 | 2:46 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |
| 0069.COMP | 12 | 3:06 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |

UT Date 2002-03-17 Observers M CalkinsColl. Focus 960 Grating/Grism 300

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|----------------|----------|----------|------------|----------|------|------|------|----------------|-----|-----------------------------------|
| 0070.vso-62752 | 1020 | 3:08 | 05:42:39.8 | 00:52:18 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0071.COMP | 12 | 3:26 | 05:42:39.8 | 00:52:18 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0072.vso-64164 | 1200 | 3:27 | 05:43:49.7 | 00:35:36 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0073.COMP | 12 | 3:47 | 05:43:49.7 | 00:35:36 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0074.vso-64986 | 1200 | 3:49 | 05:44:26.5 | 00:45:14 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0075.COMP | 1200 | 4:09 | 05:44:26.5 | 00:45:14 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0076.vso-65472 | 1200 | 4:17 | 05:44:51.6 | 00:24:49 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0077.COMP | 12 | 4:38 | 05:44:51.6 | 00:24:49 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0078.vso-65540 | 1200 | 4:39 | 05:44:54.6 | 00:27:03 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0079.COMP | 12 | 4:59 | 05:44:54.6 | 00:27:03 | 300 | 90 | 3.0 | 112 Orion PMS | 2 | |
| 0080.FLAT | 60 | 5:06 | 8:51:17.6 | 11:44:29 | 1200 | 90 | 2.0 | #99 Willie s M | 2 | 1200L, 2 arcsec, tilt=534 |
| 0081-0089.FLAT | 60 | 5:17 | 8:51:17.6 | 11:44:29 | 1200 | 90 | 2.0 | #99 Willie s M | 2 | |
| 0090.67-972 | 1200 | 5:21 | 8:51:17.6 | 11:44:29 | 1200 | 90 | 2.0 | #99 Willie s M | 2 | row=98 |
| 0091.COMP | 25 | 5:42 | 8:51:17.6 | 11:44:29 | 1200 | 90 | 2.0 | #99 Willie s M | 2 | |
| 0092.FLAT | 45 | 5:47 | 8:51:17.6 | 11:44:29 | 600 | 90 | 2.0 | #10 M67 stars | 2 | 600L, 2 arcsec, tilt=430, binby 2 |
| 0093-0101.FLAT | 45 | 5:56 | 8:51:17.6 | 11:44:29 | 600 | 90 | 2.0 | #10 M67 stars | 2 | |
| 0102.HD78712 | 2 | 6:01 | 09:10:38.7 | 30:57:47 | 600 | 90 | 2.0 | #10 M67 stars | 2 | |
| 0103.COMP | 30 | 6:02 | 09:10:38.7 | 30:57:47 | 600 | 90 | 2.0 | #10 M67 stars | 2 | |
| 0104.Feige34 | 150 | 6:05 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #56 Spectropho | 2 | |
| 0105.COMP | 30 | 6:08 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #56 Spectropho | 2 | |

UT Date 2002-03-17 Observers M CalkinsColl. Focus 960 Grating/Grism 300

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|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------------------------|
| 0106.m67_5228 | 1080 | 6:13 | 8:50:49.9 | 11:49:12 | 600 | 44 | 2.0 | #10 M67 stars | 2 | |
| 0107.COMP | 30 | 6:31 | 8:50:49.9 | 11:49:12 | 600 | 44 | 2.0 | #10 M67 stars | 2 | |
| 0108.m67_5855 | 1020 | 6:34 | 8:51:29.3 | 11:45:27 | 600 | 44 | 2.0 | #10 M67 stars | 2 | |
| 0109.COMP | 30 | 6:51 | 8:51:29.3 | 11:45:27 | 600 | 44 | 2.0 | #10 M67 stars | 2 | row=78 |
| 0110.m67_6114 | 1020 | 6:53 | 8:51:44.7 | 11:46:45 | 600 | 52 | 2.0 | #10 M67 stars | 2 | |
| 0111.COMP | 30 | 7:11 | 8:51:44.7 | 11:46:45 | 600 | 52 | 2.0 | #10 M67 stars | 2 | |
| 0112.m67_5336 | 1020 | 7:13 | 8:50:59.7 | 11:39:22 | 600 | 54 | 2.0 | #10 M67 stars | 2 | |
| 0113.COMP | 30 | 7:31 | 8:50:59.7 | 11:39:22 | 600 | 54 | 2.0 | #10 M67 stars | 2 | |
| 0114.sn2002bf | 1200 | 7:38 | 10:15:42.3 | +55:40:06 | 300 | -45 | 3.0 | #2 SN Observat | 2 | normal setup |
| 0115.COMP | 12 | 7:58 | 10:15:42.3 | +55:40:06 | 300 | -45 | 3.0 | #2 SN Observat | 2 | |
| 0116.sn2002bo | 1200 | 8:02 | 10:18:06.5 | +21:49:41 | 300 | 63 | 3.0 | #2 SN Observat | 2 | |
| 0117.COMP | 12 | 8:22 | 10:18:06.5 | +21:49:41 | 300 | 63 | 3.0 | #2 SN Observat | 2 | |
| 0118.Feige34 | 90 | 8:25 | 10:36:41.2 | 43:21:50 | 300 | 107 | 3.0 | #56 Spectropho | 2 | |
| 0119.COMP | 12 | 8:27 | 10:36:41.2 | 43:21:50 | 300 | 107 | 3.0 | #56 Spectropho | 2 | |
| 0120.sn2002ar | 1200 | 8:33 | 11:37:43.9 | +22:00:34 | 300 | 53 | 3.0 | #2 SN Observat | 2 | |
| 0121.COMP | 12 | 8:53 | 11:37:43.9 | +22:00:34 | 300 | 53 | 3.0 | #2 SN Observat | 2 | |
| 0122.FLAT | 40 | 9:00 | 11:37:43.9 | +22:00:34 | 600 | 90 | 2.0 | #122 Halo Star | 4 | 600L, 2 arcsec, tilt=430, binby 4 |
| 0123-0131.FLAT | 40 | 9:07 | 11:37:43.9 | +22:00:34 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0132.Feige34 | 120 | 9:10 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0133.COMP | 10 | 9:13 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |

UT Date 2002-03-17 Observers M CalkinsColl. Focus 960 Grating/Grism 300

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|------------------|----------|----------|------------|----------|-----|------|------|----------------|-----|--------------|
| 0134.hs852 | 1200 | 9:14 | 12:20:10.1 | 29:22:37 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0135.COMP | 10 | 9:34 | 12:20:10.1 | 29:22:37 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0136.hs853 | 900 | 9:35 | 12:20:48.6 | 29:06:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0137.hs853 | 900 | 9:51 | 12:20:48.6 | 29:06:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0138.COMP | 10 | 10:06 | 12:20:48.6 | 29:06:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0139.hs858 | 1200 | 10:07 | 12:28:25.7 | 29:14:26 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0140.COMP | 10 | 10:27 | 12:28:25.7 | 29:14:26 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0141.hs864 | 1200 | 10:28 | 12:37:27.9 | 30:27:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0142.COMP | 10 | 10:49 | 12:37:27.9 | 30:27:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0143.hs873 | 1200 | 10:50 | 12:51:43.7 | 30:19:31 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0144.COMP | 10 | 11:10 | 12:51:43.7 | 30:19:31 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0145.FSVSJ162029 | 1200 | 11:21 | 16:20:29.8 | 27:03:16 | 300 | 90 | 3.0 | #131 FSVS | 4 | normal setup |
| 0146.COMP | 5 | 11:41 | 16:20:29.8 | 27:03:16 | 300 | 90 | 3.0 | #131 FSVS | 4 | |
| 0147.FSVSJ162038 | 1020 | 11:43 | 16:20:38.9 | 26:57:51 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0148.COMP | 12 | 12:00 | 16:20:38.9 | 26:57:51 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0149.FSVSJ162104 | 1200 | 12:02 | 16:21:04.7 | 27:05:46 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0150.COMP | 12 | 12:22 | 16:21:04.7 | 27:05:46 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0151.FSVSJ162501 | 1200 | 12:24 | 16:25:01.7 | 26:53:33 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0152.COMP | 12 | 12:44 | 16:25:01.7 | 26:53:33 | 300 | 79 | 3.0 | #131 FSVS | 2 | |
| 0153.BDp332642 | 90 | 12:46 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |



UT Date 2002-03-17 Observers M Calkins

Coll. Focus 960 Grating/Grism 300

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|----------------|-----------------|-----------------|-----------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0154.COMP | 12 | 12:48 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0155-0164.BIAS | 0 | 12:51 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0165-0174.FLAT | 6 | 12:54 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0175-0184.BIAS | 0 | 12:57 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0185-0194.FLAT | 12 | 13:01 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0195-0204.DARK | 900 | 15:22 | 15:50:03 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |