



UT Date 2003-12-25 Observers M Calkins

Coll. Focus 1020 Grating/Grism 300

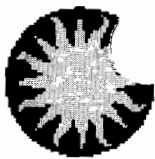
| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0001.DARK | 900 | 0:23 | 23:26:41.3 | +31:28:29 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0002.DARK | 900 | 0:38 | 23:41:52.2 | +31:28:28 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0003-0005.DARK | 900 | 1:23 | 00:27:16.2 | +31:28:27 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0006-0015.BIAS | 0 | 1:40 | 00:28:38.4 | +31:28:27 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0016-0025.FLAT | 6 | 1:44 | 00:33:01.4 | +31:28:27 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0026-0035.BIAS | 0 | 1:47 | 00:36:11.6 | +31:28:27 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0036-0045.FLAT | 12 | 1:52 | 00:40:47.4 | +31:28:27 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0046.BDp284211 | 50 | 3:17 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | #56 Spectropho | 4 | wait out humidity |
| 0047.BDp284211 | 50 | 3:18 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0048.COMP | 5 | 3:20 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | #56 Spectropho | 4 | |
| 0049.BDp284211 | 50 | 3:21 | 21:48:57.1 | 28:37:48 | 300 | 70 | 3.0 | #56 Spectropho | 2 | |
| 0050.BDp284211 | 50 | 3:22 | 21:48:57.1 | 28:37:48 | 300 | 70 | 3.0 | #56 Spectropho | 2 | |
| 0051.COMP | 12 | 3:23 | 21:48:57.1 | 28:37:48 | 300 | 70 | 3.0 | #56 Spectropho | 2 | |
| 0052.sn2003jd | 900 | 3:32 | 23:21:03.3 | -04:53:45 | 300 | 46 | 3.0 | #2 SN Observat | 2 | |
| 0053.sn2003jd | 900 | 3:47 | 23:21:03.3 | -04:53:45 | 300 | 46 | 3.0 | #2 SN Observat | 2 | |
| 0054.COMP | 12 | 4:03 | 23:21:03.3 | -04:53:45 | 300 | 46 | 3.0 | #2 SN Observat | 2 | |
| 0055.MRK335 | 150 | 4:06 | 00:06:19.6 | +20:12:11 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0056.MRK335 | 150 | 4:09 | 00:06:19.6 | +20:12:11 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0057.COMP | 12 | 4:12 | 00:06:19.6 | +20:12:11 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0058.vso-33397 | 900 | 4:16 | 05:45:03.6 | -04:22:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | possible binary |

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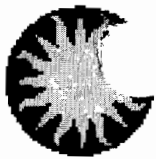
| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0059.COMP | 12 | 4:32 | 05:45:03.6 | -04:22:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0060.vso-33476 | 1020 | 4:33 | 05:45:10.4 | -04:07:43 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0061.COMP | 12 | 4:50 | 05:45:10.4 | -04:07:43 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0062.vso-33621 | 1080 | 4:53 | 05:45:22.2 | -04:20:56 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0063.COMP | 12 | 5:12 | 05:45:22.2 | -04:20:56 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0064.vso-33917 | 1080 | 5:13 | 06:03:23.3 | -06:05:20 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0065.COMP | 12 | 5:32 | 06:03:23.3 | -06:05:20 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0066.vso-34125 | 900 | 5:33 | 05:46:13.4 | -04:15:21 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0067.COMP | 12 | 5:49 | 05:46:13.4 | -04:15:21 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0068.vso-34666 | 1020 | 5:52 | 05:47:19.3 | -04:12:55 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0069.COMP | 12 | 6:09 | 05:47:19.3 | -04:12:55 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0070.vso-34737 | 1080 | 6:10 | 05:47:29.0 | -04:12:02 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0071.COMP | 12 | 6:29 | 05:47:29.0 | -04:12:02 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0072.vso-34921 | 600 | 6:30 | 06:04:57.0 | -06:03:44 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0073.COMP | 12 | 6:41 | 06:04:57.0 | -06:03:44 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0074.vso-35100 | 660 | 6:44 | 05:48:12.8 | -04:16:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0075.COMP | 12 | 6:55 | 05:48:12.8 | -04:16:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0076.vso-35625 | 1080 | 6:56 | 05:49:00.7 | -04:12:15 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0077.COMP | 12 | 7:15 | 05:49:00.7 | -04:12:15 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0078.vso-35644 | 900 | 7:17 | 06:06:34.3 | -05:54:38 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0079.COMP | 12 | 7:32 | 06:06:34.3 | -05:54:38 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0080.vso-35765 | 1080 | 7:33 | 05:49:16.3 | -04:14:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0081.COMP | 12 | 7:51 | 05:49:16.3 | -04:14:19 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0082.vso-35768 | 480 | 7:54 | 06:07:00.2 | -06:02:37 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0083.COMP | 12 | 8:02 | 06:07:00.2 | -06:02:37 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0084.vso-37157 | 600 | 8:03 | 05:51:18.9 | -04:12:32 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0085.COMP | 12 | 8:14 | 05:51:18.9 | -04:12:32 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0086.vso-38218 | 480 | 8:15 | 05:52:30.2 | -04:03:21 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0087.COMP | 12 | 8:23 | 05:52:30.2 | -04:03:21 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0088.vso-39189 | 660 | 8:25 | 05:26:40.8 | -00:51:09 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0089.COMP | 12 | 8:37 | 05:26:40.8 | -00:51:09 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0090.vso-39313 | 660 | 8:38 | 05:54:03.6 | -04:15:22 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0091.COMP | 12 | 8:49 | 05:54:03.6 | -04:15:22 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0092.sn2003kf | 1200 | 8:52 | 06:04:35.4 | -12:37:42 | 300 | 27 | 3.0 | #2 SN Observat | 2 | |
| 0093.COMP | 12 | 9:12 | 06:04:35.4 | -12:37:42 | 300 | 27 | 3.0 | #2 SN Observat | 2 | |
| 0094.081800m01130_d | 1500 | 9:16 | 8:20:42.7 | -1:24:38 | 300 | 90 | 3.0 | #113 Interacti | 2 | row=71 |
| 0095.COMP | 12 | 9:42 | 8:20:42.7 | -1:24:38 | 300 | 90 | 3.0 | #113 Interacti | 2 | wait out clouds |
| 0096.082136m00090_b | 1200 | 10:08 | 8:24:7.5 | -0:18:37 | 300 | 110 | 3.0 | #113 Interacti | 2 | row=72 |
| 0097.082136m00090_b | 1200 | 10:28 | 8:24:7.5 | -0:18:37 | 300 | 110 | 3.0 | #113 Interacti | 2 | |
| 0098.COMP | 12 | 10:48 | 8:24:7.5 | -0:18:37 | 300 | 110 | 3.0 | #113 Interacti | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0099.083330p01300_b | 1200 | 10:52 | 8:36:6.3 | 1:18:21 | 300 | 1 | 3.0 | #113 Interacti | 2 | |
| 0100.083330p01300_b | 1200 | 11:12 | 8:36:6.3 | 1:18:21 | 300 | 1 | 3.0 | #113 Interacti | 2 | |
| 0101.COMP | 12 | 11:32 | 8:36:6.3 | 1:18:21 | 300 | 1 | 3.0 | #113 Interacti | 2 | |
| 0102.sn2003kc | 1200 | 12:00 | 09:46:34.3 | +30:39:19 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0103.COMP | 12 | 12:21 | 09:46:34.3 | +30:39:19 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0104.HD84937 | 3 | 12:23 | 09:48:56.1 | 13:44:39 | 300 | 43 | 3.0 | #56 Spectropho | 2 | |
| 0105.HD84937 | 3 | 12:23 | 09:48:56.1 | 13:44:39 | 300 | 43 | 3.0 | #56 Spectropho | 2 | |
| 0106.COMP | 12 | 12:24 | 09:48:56.1 | 13:44:39 | 300 | 43 | 3.0 | #56 Spectropho | 2 | |
| 0107.MRK421 | 300 | 12:26 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #133 MRK421 an | 2 | |
| 0108.MRK421 | 300 | 12:31 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #133 MRK421 an | 2 | |
| 0109.MRK421 | 300 | 12:36 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #133 MRK421 an | 2 | |
| 0110.COMP | 12 | 12:42 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #133 MRK421 an | 2 | |
| 0111.MRK110 | 420 | 12:44 | 09:25:12.9 | +52:17:10 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0112.COMP | 12 | 12:51 | 09:25:12.9 | +52:17:10 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0113.N3227 | 150 | 12:53 | 10:23:30.6 | +19:51:54 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0114.N3227 | 150 | 12:56 | 10:23:30.6 | +19:51:54 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0115.COMP | 12 | 12:59 | 10:23:30.6 | +19:51:54 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0116.N4051 | 150 | 13:00 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0117.N4051 | 150 | 13:03 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0118.N4051 | 150 | 13:06 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0119.COMP | 12 | 13:09 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0120.N4151 | 30 | 13:10 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0121.N4151 | 30 | 13:11 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0122.COMP | 12 | 13:11 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0123.M87 | 180 | 13:13 | 12:30:49.4 | 12:23:28 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0124.M87 | 180 | 13:16 | 12:30:49.4 | 12:23:28 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0125.COMP | 12 | 13:21 | 12:30:49.4 | 12:23:28 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0126.Feige34 | 90 | 13:24 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0127.COMP | 12 | 13:26 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0128-0137.BIAS | 0 | 13:28 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0138-0147.FLAT | 6 | 13:34 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #112 Orion PMS | 4 | |
| 0148-0157.BIAS | 0 | 13:37 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0158-0167.FLAT | 12 | 13:42 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |
| 0168-0177.DARK | 900 | 16:00 | 10:36:41.2 | 43:21:50 | 300 | 90 | 3.0 | #112 Orion PMS | 2 | |