



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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UT Date 2001-10-13 Observers P Berlind

Coll. Focus 1020 Grating/Grism 300

| File           | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bir | Comments    |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------|
| 0001.DARK      | 900      | 0:46     | 19:03:56.0 | 31:30:02  | 300 | 90   | 3.0  | #68 2MASS Reds | 4   |             |
| 0002.BIAS      | 0        | 0:46     | 19:09:54.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 4   | hi Susan!   |
| 0003-0020.BIAS | 0        | 1:09     | 19:12:29.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 4   |             |
| 0021.FLAT      | 8        | 1:09     | 19:12:55.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 4   | v. windy    |
| 0022-0030.FLAT | 8        | 1:12     | 19:15:18.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 4   |             |
| 0031.BIAS      | 0        | 1:12     | 19:15:49.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 2   | thin clouds |
| 0032-0036.BIAS | 0        | 1:14     | 19:16:58.0 | 31:30:01  | 300 | 90   | 3.0  | #68 2MASS Reds | 2   |             |
| 0037-0040.BIAS | 0        | 1:15     | 19:17:51.0 | 31:30:00  | 300 | 90   | 3.0  | #68 2MASS Reds | 2   |             |
| 0041-0050.FLAT | 16       | 1:20     | 19:23:04.0 | 31:30:00  | 300 | 90   | 3.0  | #68 2MASS Reds | 2   |             |
| 0051.HD192281  | 5        | 1:20     | 20:10:46.8 | 40:07:01  | 300 | 90   | 3.0  | #56 Spectropho | 4   |             |
| 0052.HD192281  | 6        | 1:20     | 20:10:46.8 | 40:07:01  | 300 | 90   | 3.0  | #56 Spectropho | 4   |             |
| 0053.HD192281  | 6        | 1:20     | 20:10:46.8 | 40:07:01  | 300 | 90   | 3.0  | #56 Spectropho | 4   |             |
| 0054.COMP      | 5        | 1:20     | 20:10:46.8 | 40:07:01  | 300 | 90   | 3.0  | #56 Spectropho | 4   |             |
| 0055.N7331     | 150      | 1:20     | 22:34:46.9 | +34:09:43 | 300 | 90   | 3.0  | #57 Velocity S | 4   |             |
| 0056.COMP      | 5        | 1:20     | 22:34:46.9 | +34:09:43 | 300 | 90   | 3.0  | #57 Velocity S | 4   |             |
| 0057.id1800    | 720      | 1:20     | 20:06:02.4 | 35:39:36  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |             |
| 0058.COMP      | 5        | 1:20     | 20:06:02.4 | 35:39:36  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |             |
| 0059.id1758    | 720      | 1:20     | 20:06:07.4 | 35:35:23  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |             |
| 0060.COMP      | 5        | 1:20     | 20:06:07.4 | 35:35:23  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |             |
| 0061.id1529    | 720      | 1:20     | 20:06:36.9 | 35:40:44  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |             |



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| File            | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bir | Comments                        |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---------------------------------|
| 0062.COMP       | 5        | 1:20     | 20:06:36.9 | 35:40:44  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0063.id1973     | 900      | 1:20     | 20:05:45.6 | 35:36:43  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   | weak; redo                      |
| 0064.COMP       | 5        | 1:20     | 20:05:45.6 | 35:36:43  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0065.id2316     | 900      | 1:20     | 20:04:54.0 | 35:47:09  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   | poor seeing                     |
| 0066.COMP       | 5        | 1:20     | 20:04:54.0 | 35:47:09  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0067.id1692     | 900      | 1:20     | 20:06:15.1 | 35:42:47  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0068.COMP       | 5        | 1:20     | 20:06:15.1 | 35:42:47  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0069.id2147     | 900      | 1:20     | 20:05:20.6 | 35:56:17  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   | wind too strong here in the NW  |
| 0070.COMP       | 5        | 1:20     | 20:05:20.6 | 35:56:17  | 300 | 90   | 3.0  | #115 PMS NGC68 | 4   |                                 |
| 0071.BDp284211  | 120      | 1:20     | 21:48:57.1 | 28:37:48  | 300 | 90   | 3.0  | #56 Spectropho | 2   |                                 |
| 0072.BDp284211  | 120      | 1:20     | 21:48:57.1 | 28:37:48  | 300 | 90   | 3.0  | #56 Spectropho | 2   |                                 |
| 0073.COMP       | 10       | 1:20     | 21:48:57.1 | 28:37:48  | 300 | 90   | 3.0  | #56 Spectropho | 2   |                                 |
| 0074.ch2348p01a | 1200     | 1:20     | 23:48:17.9 | 01:06:17  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   |                                 |
| 0075.COMP       | 5        | 1:20     | 23:48:17.9 | 01:06:17  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   |                                 |
| 0076.ch2348p01b | 360      | 1:20     | 23:48:20.5 | 01:04:07  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   | with comp file 75               |
| 0077.ch2302p08a | 1200     | 1:20     | 23:02:40.9 | 08:38:57  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   | long cosmic ray path across ccd |
| 0078.COMP       | 5        | 1:20     | 23:02:40.9 | 08:38:57  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   |                                 |
| 0079.ch2302p08b | 900      | 1:20     | 23:02:46.7 | 08:48:18  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   |                                 |
| 0080.COMP       | 5        | 1:20     | 23:02:46.7 | 08:48:18  | 300 | 90   | 3.0  | #129 CHAMP Sou | 4   |                                 |
| 0081.N7469      | 150      | 1:20     | 23:03:15.7 | +08:52:27 | 300 | 10   | 3.0  | #6 AGN Monitor | 4   |                                 |



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| File          | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bir | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0082.N7469    | 150      | 1:20     | 23:03:15.7 | +08:52:27 | 300 | 10   | 3.0  | #6 AGN Monitor | 4   |          |
| 0083.COMP     | 5        | 1:20     | 23:03:15.7 | +08:52:27 | 300 | 10   | 3.0  | #6 AGN Monitor | 4   |          |
| 0084.Feige110 | 150      | 1:20     | 23:17:23.5 | -05:26:22 | 300 | 4    | 3.0  | #56 Spectropho | 4   |          |
| 0085.COMP     | 5        | 1:20     | 23:17:23.5 | -05:26:22 | 300 | 4    | 3.0  | #56 Spectropho | 4   |          |
| 0086.Akn564   | 240      | 1:20     | 22:42:39.4 | +29:43:31 | 300 | 77   | 3.0  | #6 AGN Monitor | 4   |          |
| 0087.Akn564   | 240      | 1:20     | 22:42:39.4 | +29:43:31 | 300 | 77   | 3.0  | #6 AGN Monitor | 4   |          |
| 0088.COMP     | 5        | 1:20     | 22:42:39.4 | +29:43:31 | 300 | 77   | 3.0  | #6 AGN Monitor | 4   |          |
| 0089.MRK335   | 120      | 1:20     | 00:06:19.6 | +20:12:11 | 300 | 90   | 3.0  | #6 AGN Monitor | 4   |          |
| 0090.MRK335   | 120      | 1:20     | 00:06:19.6 | +20:12:11 | 300 | 90   | 3.0  | #6 AGN Monitor | 4   |          |
| 0091.COMP     | 5        | 1:20     | 00:06:19.6 | +20:12:11 | 300 | 90   | 3.0  | #6 AGN Monitor | 4   |          |
| 0092.ZAnd     | 1        | 1:20     | 23:33:40   | 48:49:06  | 300 | 90   | 3.0  | #12 Symbiotic  | 4   |          |
| 0093.ZAnd     | 3        | 1:20     | 23:33:40   | 48:49:06  | 300 | 90   | 3.0  | #12 Symbiotic  | 4   |          |
| 0094.ZAnd     | 7        | 1:20     | 23:33:40   | 48:49:06  | 300 | 90   | 3.0  | #12 Symbiotic  | 4   |          |
| 0095.ZAnd     | 15       | 1:20     | 23:33:40   | 48:49:06  | 300 | 90   | 3.0  | #12 Symbiotic  | 4   |          |
| 0096.COMP     | 5        | 1:20     | 23:33:40   | 48:49:06  | 300 | 90   | 3.0  | #12 Symbiotic  | 4   |          |
| 0097.a168_072 | 330      | 1:20     | 01:15:30.4 | 0:13:21   | 300 | 90   | 3.0  | #64 Cluster In | 4   |          |
| 0098.COMP     | 5        | 1:20     | 01:15:30.4 | 0:13:21   | 300 | 90   | 3.0  | #64 Cluster In | 4   |          |
| 0099.a168_070 | 1200     | 1:20     | 01:20:42.2 | 1:21:32   | 300 | 90   | 3.0  | #64 Cluster In | 4   |          |
| 0100.COMP     | 5        | 1:20     | 01:20:42.2 | 1:21:32   | 300 | 90   | 3.0  | #64 Cluster In | 4   |          |
| 0101.a168_079 | 300      | 1:20     | 01:08:50.9 | 1:56:41   | 300 | 90   | 3.0  | #64 Cluster In | 4   |          |



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| File          | Exp Time | UT Start | RA         | Dec      | Gr. | P.A. | Slit | Program        | Bir | Comments      |
|---------------|----------|----------|------------|----------|-----|------|------|----------------|-----|---------------|
| 0102.COMP     | 5        | 1:20     | 01:08:50.9 | 1:56:41  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0103.a168_081 | 360      | 1:20     | 01:18:52.9 | -0:39:35 | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0104.COMP     | 5        | 1:20     | 01:18:52.9 | -0:39:35 | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0105.a168_083 | 360      | 1:20     | 01:09:18.7 | 2:11:50  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0106.COMP     | 5        | 1:20     | 01:09:18.7 | 2:11:50  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0107.a168_086 | 1200     | 1:20     | 01:13:25.1 | 2:37:54  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0108.COMP     | 5        | 1:20     | 01:13:25.1 | 2:37:54  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0109.a168_087 | 1200     | 1:20     | 01:16:53.6 | 0:09:10  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0110.COMP     | 5        | 1:20     | 01:16:53.6 | 0:09:10  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0111.a168_090 | 480      | 1:20     | 01:11:22.2 | 2:20:29  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0112.COMP     | 5        | 1:20     | 01:11:22.2 | 2:20:29  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |
| 0113.sn2001eh | 1320     | 1:20     | 01:38:12.1 | 41:39:18 | 300 | 0    | 3.0  | #2 SN Observat | 2   |               |
| 0114.COMP     | 10       | 1:20     | 01:38:12.1 | 41:39:18 | 300 | 0    | 3.0  | #2 SN Observat | 2   |               |
| 0115.sn2001es | 1200     | 1:20     | 2:2:8      | 19:05:27 | 300 | 0    | 3.0  | #2 SN Observat | 2   |               |
| 0116.COMP     | 10       | 1:20     | 2:2:8      | 19:05:27 | 300 | 0    | 3.0  | #2 SN Observat | 2   |               |
| 0117.a168_092 | 420      | 1:20     | 01:14:27.8 | 1:41:41  | 300 | 0    | 3.0  | #64 Cluster In | 4   |               |
| 0118.COMP     | 5        | 1:20     | 01:14:27.8 | 1:41:41  | 300 | 0    | 3.0  | #64 Cluster In | 4   |               |
| 0119.a168_093 | 300      | 1:20     | 01:18:54.4 | -0:40:59 | 300 | 0    | 3.0  | #64 Cluster In | 4   | seeing better |
| 0120.COMP     | 5        | 1:20     | 01:18:54.4 | -0:40:59 | 300 | 0    | 3.0  | #64 Cluster In | 4   |               |
| 0121.a168_095 | 480      | 1:20     | 01:19:06.2 | 0:57:56  | 300 | 90   | 3.0  | #64 Cluster In | 4   |               |



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|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0122.COMP     | 5        | 1:20     | 01:19:06.2 | 0:57:56   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0123.a168_097 | 420      | 1:20     | 01:19:45.7 | 1:37:13   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0124.COMP     | 5        | 1:20     | 01:19:45.7 | 1:37:13   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0125.a168_099 | 360      | 1:20     | 01:15:02.7 | 1:25:48   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0126.COMP     | 5        | 1:20     | 01:15:02.7 | 1:25:48   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0127.a168_100 | 420      | 1:20     | 01:22:40.2 | 0:43:15   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0128.COMP     | 5        | 1:20     | 01:22:40.2 | 0:43:15   | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0129.a496_513 | 420      | 1:20     | 04:39:52.2 | -14:35:28 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0130.COMP     | 5        | 1:20     | 04:39:52.2 | -14:35:28 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0131.a496_514 | 420      | 1:20     | 04:42:25.2 | -13:08:31 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0132.COMP     | 5        | 1:20     | 04:42:25.2 | -13:08:31 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0133.a496_516 | 420      | 1:20     | 04:31:47.5 | -12:26:32 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0134.COMP     | 5        | 1:20     | 04:31:47.5 | -12:26:32 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0135.a496_519 | 420      | 1:20     | 04:41:38.1 | -15:25:00 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0136.COMP     | 5        | 1:20     | 04:41:38.1 | -15:25:00 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0137.a496_520 | 420      | 1:20     | 04:41:02.8 | -11:48:56 | 300 | 90   | 3.0  | #64 Cluster In | 4   | sup *; gal has em |
| 0138.COMP     | 5        | 1:20     | 04:41:02.8 | -11:48:56 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0139.a496_523 | 420      | 1:20     | 04:20:55.9 | -12:40:30 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0140.COMP     | 5        | 1:20     | 04:20:55.9 | -12:40:30 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |
| 0141.a496_526 | 420      | 1:20     | 04:24:29.4 | -10:34:40 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                   |



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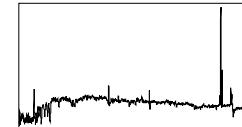
Coll. Focus 1020 Grating/Grism 300

| File             | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments              |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------------|
| 0142.COMP        | 5        | 1:20     | 04:24:29.4 | -10:34:40 | 300 | 90   | 3.0  | #64 Cluster In | 4   | wind picking up again |
| 0143.a496_528    | 420      | 1:20     | 04:26:13.7 | -10:33:24 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0144.COMP        | 5        | 1:20     | 04:26:13.7 | -10:33:24 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0145.a496_531    | 900      | 1:20     | 04:24:46.9 | -13:59:57 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0146.COMP        | 5        | 1:20     | 04:24:46.9 | -13:59:57 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0147.a496_532    | 600      | 1:20     | 04:26:15.3 | -12:39:52 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0148.COMP        | 5        | 1:20     | 04:26:15.3 | -12:39:52 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0149.a496_533    | 900      | 1:20     | 04:25:44.4 | -11:09:27 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0150.COMP        | 5        | 1:20     | 04:25:44.4 | -11:09:27 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0151.a496_534    | 900      | 1:20     | 04:38:11.0 | -10:47:47 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0152.COMP        | 5        | 1:20     | 04:38:11.0 | -10:47:47 | 300 | 90   | 3.0  | #64 Cluster In | 4   |                       |
| 0153.Akn120      | 180      | 1:20     | 05:13:38.0 | -00:12:15 | 300 | 5    | 3.0  | #6 AGN Monitor | 4   |                       |
| 0154.COMP        | 5        | 1:20     | 05:13:38.0 | -00:12:15 | 300 | 5    | 3.0  | #6 AGN Monitor | 4   |                       |
| 0155.BGGem       | 1200     | 1:20     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     | 2   |                       |
| 0156.BGGem       | 300      | 1:20     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     | 2   |                       |
| 0157.COMP        | 10       | 1:20     | 6:03:31    | 27:41:50  | 300 | 90   | 3.0  | #100 BGGem     | 2   |                       |
| 0158.sn2001eo    | 1200     | 1:20     | 07:41:31.1 | +51:41:05 | 300 | 90   | 3.0  | #2 SN Observat | 2   |                       |
| 0159.COMP        | 10       | 1:20     | 07:41:31.1 | +51:41:05 | 300 | 90   | 3.0  | #2 SN Observat | 2   |                       |
| 0160.10vso-24900 | 420      | 1:20     | 05:07:09.3 | -00:42:57 | 300 | 90   | 3.0  | #112 Orion PMS | 4   |                       |
| 0161.COMP        | 5        | 1:20     | 05:07:09.3 | -00:42:57 | 300 | 90   | 3.0  | #112 Orion PMS | 4   |                       |



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| File            | Exp Time | UT Start | RA         | Dec      | Gr. | P.A. | Slit | Program        | Bir | Comments              |
|-----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|-----------------------|
| 0162.Hiltner600 | 60       | 1:20     | 06:42:37.2 | 02:11:25 | 300 | -5   | 3.0  | #56 Spectropho | 2   |                       |
| 0163.Hiltner600 | 60       | 1:20     | 06:42:37.2 | 02:11:25 | 300 | -5   | 3.0  | #56 Spectropho | 2   |                       |
| 0164.COMP       | 10       | 1:20     | 06:42:37.2 | 02:11:25 | 300 | -5   | 3.0  | #56 Spectropho | 2   | windy and hazy @ dawn |
| 0165-0174.BIAS  | 0        | 12:47    | 06:42:37.2 | 02:11:25 | 300 | 90   | 3.0  | #56 Spectropho | 4   |                       |
| 0175-0184.FLAT  | 8        | 12:50    | 06:42:37.2 | 02:11:25 | 300 | 90   | 3.0  | #56 Spectropho | 4   |                       |
| 0185-0194.BIAS  | 0        | 12:52    | 06:42:37.2 | 02:11:25 | 300 | 90   | 3.0  | #56 Spectropho | 2   |                       |
| 0195-0204.FLAT  | 16       | 12:57    | 06:42:37.2 | 02:11:25 | 300 | 90   | 3.0  | #56 Spectropho | 2   |                       |
| 0205-0214.DARK  | 900      | 15:16    | 06:42:37.2 | 02:11:25 | 300 | 90   | 3.0  | #56 Spectropho | 4   |                       |