



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



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UT Date 2002-06-05 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|----------|----------|-----|------|------|----------------|-----|----------------------------------|
| 0001.DARK | 900 | 22:45 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 4 | clear skies |
| 0002-0010.DARK | 900 | 1:01 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 4 | |
| 0011-0020.BIAS | 0 | 2:18 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 4 | |
| 0021-0030.BIAS | 0 | 2:20 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0031.FLAT | 30 | 2:21 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | 300-line, 1.5-sec slit, red tilt |
| 0032-0050.FLAT | 30 | 2:34 | 21:00:00 | 32:00:00 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0051.Venus.red | 1 | 3:00 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0052.Venus.red | 2 | 3:05 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0053.Venus.red | 2 | 3:05 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0054.Venus.red | 2 | 3:06 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0055.Venus.red | 0 | 3:07 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0056.Venus.red | 0 | 3:07 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0057.Venus.red | 0 | 3:08 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0058.Venus.red | 0 | 3:09 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0059.Venus.red | 0 | 3:09 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0060.COMP | 5 | 3:10 | 8:00:00 | 24:01:56 | 300 | 0 | 1.5 | #130 Solar Sys | 2 | |
| 0061.BIAS | 0 | 3:18 | 13:00:00 | 32:00:00 | 600 | 90 | 3.0 | #70 Elliptical | 2 | |
| 0062.FLAT | 40 | 3:21 | 13:00:00 | 32:00:00 | 600 | 90 | 3.0 | #70 Elliptical | 2 | 600-line, 3-sec slit, blue |
| 0063-0071.FLAT | 40 | 3:29 | 13:00:00 | 32:00:00 | 600 | 90 | 3.0 | #70 Elliptical | 2 | |
| 0072.COMP | 5 | 3:33 | 13:00:00 | 32:00:00 | 600 | 90 | 3.0 | #70 Elliptical | 2 | |



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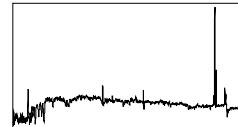
Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0073.Feige34 | 240 | 3:37 | 10:36:41.2 | 43:21:50 | 600 | 99 | 3.0 | #70f Elliptica | 2 | |
| 0074.Feige34 | 240 | 3:41 | 10:36:41.2 | 43:21:50 | 600 | 99 | 3.0 | #70f Elliptica | 2 | |
| 0075.COMP | 20 | 3:46 | 10:36:41.2 | 43:21:50 | 600 | 99 | 3.0 | #70f Elliptica | 2 | |
| 0076.vcc1178 | 1800 | 3:48 | 12:26:49 | 8:26:6 | 600 | 28 | 3.0 | #70f Elliptica | 2 | |
| 0077.COMP | 20 | 4:18 | 12:26:49 | 8:26:6 | 600 | 28 | 3.0 | #70f Elliptica | 2 | |
| 0078.vcc1903 | 1800 | 4:20 | 12:39:31 | 11:55:12 | 600 | 40 | 3.0 | #70f Elliptica | 2 | |
| 0079.COMP | 20 | 4:51 | 12:39:31 | 11:55:12 | 600 | 40 | 3.0 | #70f Elliptica | 2 | |
| 0080.vcc1903 | 1800 | 4:52 | 12:39:31 | 11:55:12 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0081.COMP | 20 | 5:23 | 12:39:31 | 11:55:12 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0082.vcc1939 | 1800 | 5:24 | 12:40:17 | 2:57:42 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0083.COMP | 20 | 5:54 | 12:40:17 | 2:57:42 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0084.vcc1939 | 1800 | 5:55 | 12:40:17 | 2:57:42 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0085.COMP | 20 | 6:26 | 12:40:17 | 2:57:42 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0086.BDp332642 | 120 | 6:29 | 15:50:03 | 33:05:49 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0087.BDp332642 | 120 | 6:32 | 15:50:03 | 33:05:49 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0088.COMP | 20 | 6:34 | 15:50:03 | 33:05:49 | 600 | 50 | 3.0 | #70f Elliptica | 2 | |
| 0089.HD132737 | 10 | 6:36 | 14:59:52.5 | 27:09:35 | 600 | 70 | 3.0 | #70f Elliptica | 2 | |
| 0090.HD132737 | 10 | 6:36 | 14:59:52.5 | 27:09:35 | 600 | 70 | 3.0 | #70f Elliptica | 2 | |
| 0091.HD132737 | 10 | 6:37 | 14:59:52.5 | 27:09:35 | 600 | 70 | 3.0 | #70f Elliptica | 2 | |
| 0092.COMP | 20 | 6:37 | 14:59:52.5 | 27:09:35 | 600 | 70 | 3.0 | #70f Elliptica | 2 | |



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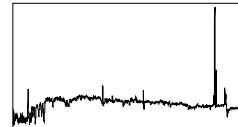
Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------------------------------|
| 0093.BIAS | 0 | 6:39 | 16:30:00 | 32:00:00 | 600 | 70 | 3.0 | #70f Elliptica | 4 | |
| 0094.FLAT | 40 | 6:40 | 16:30:00 | 32:00:00 | 600 | 90 | 2.0 | #122 Halo Star | 4 | 600-line, 2-sec slit, bluer |
| 0095-0103.FLAT | 40 | 6:48 | 16:30:00 | 32:00:00 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0104.BDp332642 | 120 | 6:51 | 15:50:03 | 33:05:49 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0105.BDp332642 | 120 | 6:53 | 15:50:03 | 33:05:49 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0106.COMP | 10 | 6:55 | 15:50:03 | 33:05:49 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0107.hs1094 | 1200 | 6:56 | 16:35:05.8 | 29:52:26 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0108.COMP | 10 | 7:17 | 16:35:05.8 | 29:52:26 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0109.hs1095 | 1200 | 7:17 | 16:35:42.7 | 30:23:52 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0110.COMP | 10 | 7:38 | 16:35:42.7 | 30:23:52 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0111.hs1096 | 900 | 7:39 | 16:36:04.9 | 30:36:54 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0112.COMP | 10 | 7:54 | 16:36:04.9 | 30:36:54 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0113.hs1097 | 720 | 7:55 | 16:38:04.6 | 30:42:51 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0114.COMP | 10 | 8:07 | 16:38:04.6 | 30:42:51 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0115.hs1098 | 900 | 8:08 | 16:38:13.9 | 30:05:21 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0116.COMP | 10 | 8:23 | 16:38:13.9 | 30:05:21 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0117.hs1099 | 1200 | 8:24 | 16:40:09.8 | 30:38:10 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0118.COMP | 10 | 8:44 | 16:40:09.8 | 30:38:10 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0119.BIAS | 0 | 8:48 | 18:30:00 | 32:00:00 | 600 | 100 | 2.0 | #122 Halo Star | 4 | |
| 0120.BDp332642 | 120 | 8:56 | 15:50:03 | 33:05:49 | 300 | 83 | 1.5 | #56 Spectropho | 2 | 300-line, 1.5-sec slit, tilt=610 |



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UT Date 2002-06-05 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------------------|
| 0121.BDp332642 | 120 | 8:58 | 15:50:03 | 33:05:49 | 300 | 83 | 1.5 | #56 Spectropho | 2 | |
| 0122.COMP | 10 | 9:01 | 15:50:03 | 33:05:49 | 300 | 83 | 1.5 | #56 Spectropho | 2 | |
| 0123.V4641Sgr | 1200 | 9:07 | 18:19:21.6 | -25:24:26 | 300 | 8 | 1.5 | #65 X-Ray Nova | 2 | |
| 0124.COMP | 10 | 9:27 | 18:19:21.6 | -25:24:26 | 300 | 8 | 1.5 | #65 X-Ray Nova | 2 | |
| 0125.sn2002de | 1200 | 9:30 | 16:16:30.7 | 35:42:29 | 300 | 55 | 1.5 | #2 SN Observat | 2 | |
| 0126.COMP | 10 | 9:51 | 16:16:30.7 | 35:42:29 | 300 | 55 | 1.5 | #2 SN Observat | 2 | |
| 0127-0136.FLAT | 26 | 9:58 | 19:30:00 | 32:00:00 | 300 | 55 | 1.5 | #2 SN Observat | 2 | |
| 0137.BIAS | 0 | 10:00 | 19:30:00 | 32:00:00 | 300 | 55 | 3.0 | #2 SN Observat | 2 | 300-line, 3-sec slit, combo |
| 0138.sb83 | 1200 | 10:02 | 18:10:41.4 | +25:07:22 | 300 | 35 | 3.0 | #135 Starburst | 2 | |
| 0139.COMP | 10 | 10:22 | 18:10:41.4 | +25:07:22 | 300 | 35 | 3.0 | #135 Starburst | 2 | |
| 0140.sb81 | 1200 | 10:24 | 17:50:39.3 | +17:12:35 | 300 | 35 | 3.0 | #135 Starburst | 2 | |
| 0141.COMP | 10 | 10:44 | 17:50:39.3 | +17:12:35 | 300 | 35 | 3.0 | #135 Starburst | 2 | |
| 0142.sn2002cd | 1200 | 10:47 | 20:23:34.4 | +58:20:47 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0143.COMP | 10 | 11:07 | 20:23:34.4 | +58:20:47 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0144.HD192281 | 5 | 11:09 | 20:10:46.8 | 40:07:01 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0145.HD192281 | 5 | 11:09 | 20:10:46.8 | 40:07:01 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0146.HD192281 | 5 | 11:09 | 20:10:46.8 | 40:07:01 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0147.COMP | 10 | 11:10 | 20:10:46.8 | 40:07:01 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0148.BDp284211 | 120 | 11:12 | 21:48:57.1 | 28:37:48 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |
| 0149.BDp284211 | 90 | 11:14 | 21:48:57.1 | 28:37:48 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |



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UT Date 2002-06-05 Observers P BerlindColl. Focus 980 Grating/Grism 300

| <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>Bir</i> | <i>Comments</i> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0150.BDp284211 | 90 | 11:16 | 21:48:57.1 | 28:37:48 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |
| 0151.COMP | 10 | 11:18 | 21:48:57.1 | 28:37:48 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |
| 0152.N7331 | 120 | 11:19 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0153.COMP | 10 | 11:21 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0154-0163.BIAS | 0 | 11:25 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0164-0173.FLAT | 16 | 11:30 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0174-0183.BIAS | 0 | 11:32 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0184-0193.DARK | 1200 | 14:35 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |