



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12199

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001.DARK | 900 | 23:22 | 04:28:42.3 | +31:29:13 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0002.DARK | 900 | 23:38 | 04:43:52.2 | +31:29:17 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0003.DARK | 900 | 23:53 | 04:59:02.0 | +31:29:22 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0004.DARK | 900 | 0:08 | 05:14:08.6 | +31:29:27 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0005.DARK | 900 | 0:23 | 05:29:18.2 | +31:29:32 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0006.DARK | 900 | 0:38 | 05:44:27.9 | +31:29:37 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0007.DARK | 900 | 0:53 | 05:59:38.4 | +31:29:42 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0008.DARK | 900 | 1:08 | 06:14:45.1 | +31:29:48 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0009-0011.BIAS | 0 | 1:29 | 06:20:11.6 | +31:29:49 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0012-0020.BIAS | 0 | 1:30 | 06:21:19.3 | +31:29:50 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0021-0025.FLAT | 8 | 1:31 | 06:23:01.8 | +31:29:50 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0026-0030.FLAT | 8 | 1:33 | 06:24:47.9 | +31:29:51 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0031-0035.BIAS | 0 | 1:34 | 06:25:56.2 | +31:29:51 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0036-0040.BIAS | 0 | 1:36 | 06:27:03.5 | +31:29:52 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0041-0042.FLAT | 16 | 1:36 | 06:28:16.1 | +31:29:52 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0043-0047.FLAT | 16 | 1:39 | 06:31:15.0 | +31:29:53 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0048-0050.FLAT | 16 | 1:41 | 06:33:05.3 | +31:29:54 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0051-0055.sky | 3 | 1:54 | 6:45:00 | 32:00:00 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0056.COMP | 5 | 1:54 | 6:45:00 | 32:00:00 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0057.HD52071 | 5 | 2:33 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12200

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0058.HD52071 | 5 | 2:33 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0059.HD52071 | 5 | 2:34 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0060.COMP | 5 | 2:34 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0061.Hiltner600 | 90 | 2:48 | 06:42:37.2 | 02:11:25 | 300 | 21 | 3.0 | #56 Spectropho | 2 | |
| 0062.Hiltner600 | 90 | 2:50 | 06:42:37.2 | 02:11:25 | 300 | 21 | 3.0 | #56 Spectropho | 2 | |
| 0063.Hiltner600 | 90 | 2:52 | 06:42:37.2 | 02:11:25 | 300 | 21 | 3.0 | #56 Spectropho | 2 | |
| 0064.COMP | 10 | 2:54 | 06:42:37.2 | 02:11:25 | 300 | 21 | 3.0 | #56 Spectropho | 2 | |
| 0065.2M05315499+4338482 | 240 | 3:00 | 05:31:54.9 | +43:38:48 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0066.COMP | 5 | 3:04 | 05:31:54.9 | +43:38:48 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0067.2M05521648+3750158 | 1200 | 3:05 | 05:52:16.4 | +37:50:15 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0068.COMP | 5 | 3:26 | 05:52:16.4 | +37:50:15 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0069.2M06331910+5122572 | 720 | 3:27 | 06:33:19.1 | +51:22:57 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0070.COMP | 5 | 3:39 | 06:33:19.1 | +51:22:57 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0071.2M08065767+5554114 | 300 | 3:40 | 08:06:57.6 | +55:54:11 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0072.COMP | 5 | 3:46 | 08:06:57.6 | +55:54:11 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0073.2M09440502+0044009 | 240 | 3:48 | 09:44:05.0 | +00:44:00 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0074.COMP | 5 | 3:55 | 09:44:05.0 | +00:44:00 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0075.test | 10 | 4:01 | 9:10:00 | 32:00:00 | 600 | 90 | 2.0 | #113 Interacti | 4 | |
| 0076.FLAT | 40 | 4:02 | 9:10:00 | 32:00:00 | 600 | 90 | 2.0 | #113 Interacti | 4 | 600-line, 2-sec, Warren |
| 0077-0085.FLAT | 40 | 4:09 | 9:10:00 | 32:00:00 | 600 | 90 | 2.0 | #113 Interacti | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12201

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0086.hs1798 | 600 | 4:14 | 11:06:10.8 | 14:03:35 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0087.COMP | 10 | 4:24 | 11:06:10.8 | 14:03:35 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0088.hs1799 | 720 | 4:25 | 11:06:14.7 | 21:44:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0089.COMP | 10 | 4:38 | 11:06:14.7 | 21:44:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0090.hs1800 | 900 | 4:39 | 11:06:22.4 | 31:39:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0091.COMP | 10 | 4:54 | 11:06:22.4 | 31:39:36 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0092.hs1801 | 300 | 4:55 | 11:06:23.5 | 37:21:59 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0093.COMP | 10 | 5:00 | 11:06:23.5 | 37:21:59 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0094.hs1802 | 360 | 5:01 | 11:06:29.6 | 37:59:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0095.COMP | 10 | 5:08 | 11:06:29.6 | 37:59:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0096.hs1803 | 900 | 5:09 | 11:06:30.9 | 48:20:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0097.COMP | 10 | 5:24 | 11:06:30.9 | 48:20:04 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0098.hs1804 | 360 | 5:25 | 11:06:59.1 | 12:17:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0099.COMP | 10 | 5:32 | 11:06:59.1 | 12:17:39 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0100.hs1805 | 330 | 5:33 | 11:07:28.0 | 22:27:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0101.COMP | 10 | 5:39 | 11:07:28.0 | 22:27:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0102.hs1808 | 330 | 5:40 | 11:07:59.6 | 13:11:33 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0103.COMP | 10 | 5:47 | 11:07:59.6 | 13:11:33 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0104.hs1807 | 900 | 5:48 | 11:07:41.3 | 32:35:40 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0105.COMP | 10 | 6:03 | 11:07:41.3 | 32:35:40 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12202

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0106.hs1806 | 330 | 6:04 | 11:07:40.0 | 43:01:46 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0107.COMP | 10 | 6:10 | 11:07:40.0 | 43:01:46 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0108.hs1866 | 300 | 6:10 | 11:18:21.1 | 46:36:30 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0109.COMP | 10 | 6:16 | 11:18:21.1 | 46:36:30 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0110.hs1867 | 330 | 6:16 | 11:18:21.4 | 40:29:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0111.COMP | 10 | 6:22 | 11:18:21.4 | 40:29:07 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0112.Feige34 | 120 | 6:23 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0113.Feige34 | 120 | 6:25 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0114.COMP | 10 | 6:27 | 10:36:41.2 | 43:21:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0115.hs1869 | 420 | 6:28 | 11:18:28.9 | 27:49:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0116.COMP | 10 | 6:36 | 11:18:28.9 | 27:49:57 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0117.hs1871 | 300 | 6:36 | 11:18:34.7 | 19:49:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0118.COMP | 10 | 6:42 | 11:18:34.7 | 19:49:47 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0119.hs1870 | 360 | 6:42 | 11:18:33.8 | 9:03:13 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0120.COMP | 10 | 6:49 | 11:18:33.8 | 9:03:13 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0121.hs1872 | 300 | 6:51 | 11:18:38.1 | 9:44:52 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0122.COMP | 10 | 6:56 | 11:18:38.1 | 9:44:52 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0123.hs1875 | 720 | 6:57 | 11:19:00.2 | 8:39:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0124.COMP | 10 | 7:10 | 11:19:00.2 | 8:39:11 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0125.hs1876 | 420 | 7:11 | 11:19:41.2 | 26:43:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12203

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---------------------------|
| 0126.COMP | 10 | 7:18 | 11:19:41.2 | 26:43:16 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0127.hs1874 | 300 | 7:19 | 11:18:56.0 | 41:10:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0128.COMP | 10 | 7:24 | 11:18:56.0 | 41:10:50 | 600 | 90 | 2.0 | #122 Halo Star | 4 | |
| 0129.test | 1 | 7:27 | 12:30:00 | 32:00:0 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0130.HD84937 | 10 | 7:29 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | 300-line,3-sec,blue |
| 0131.HD84937 | 10 | 7:29 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0132.HD84937 | 10 | 7:30 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0133.COMP | 10 | 7:30 | 09:48:56.1 | 13:44:39 | 300 | 57 | 3.0 | #56 Spectropho | 2 | |
| 0134.Feige34 | 120 | 7:32 | 10:36:41.2 | 43:21:50 | 300 | 109 | 3.0 | #56 Spectropho | 2 | |
| 0135.Feige34 | 120 | 7:34 | 10:36:41.2 | 43:21:50 | 300 | 109 | 3.0 | #56 Spectropho | 2 | |
| 0136.COMP | 10 | 7:36 | 10:36:41.2 | 43:21:50 | 300 | 109 | 3.0 | #56 Spectropho | 2 | |
| 0137.sn2004aw | 1500 | 7:38 | 11:57:50.2 | +25:15:55 | 300 | 50 | 3.0 | #2 SN Observat | 2 | |
| 0138.COMP | 10 | 8:05 | 11:57:50.2 | +25:15:55 | 300 | 50 | 3.0 | #2 SN Observat | 2 | |
| 0139-0143.FLAT | 16 | 8:07 | 11:57:50.2 | +25:15:55 | 300 | 50 | 3.0 | #57 Velocity S | 2 | |
| 0144.test | 10 | 8:10 | 13:00:00 | 25:00:00 | 300 | 65 | 3.0 | #2 SN Observat | 2 | |
| 0145.test | 5 | 8:11 | 13:00:00 | 25:00:00 | 300 | 65 | 3.0 | #2 SN Observat | 2 | |
| 0146.test | 5 | 8:12 | 13:00:00 | 25:00:00 | 300 | 65 | 3.0 | #2 SN Observat | 2 | |
| 0147.HD84937 | 10 | 8:14 | 09:48:56.1 | 13:44:39 | 300 | 60 | 3.0 | #56 Spectropho | 2 | 300-line,3-sec,red,gg-495 |
| 0148.HD84937 | 15 | 8:15 | 09:48:56.1 | 13:44:39 | 300 | 60 | 3.0 | #56 Spectropho | 2 | |
| 0149.HD84937 | 15 | 8:15 | 09:48:56.1 | 13:44:39 | 300 | 60 | 3.0 | #56 Spectropho | 2 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12204

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------------------|
| 0150.HD84937 | 15 | 8:16 | 09:48:56.1 | 13:44:39 | 300 | 60 | 3.0 | #56 Spectropho | 2 | |
| 0151.COMP | 5 | 8:17 | 09:48:56.1 | 13:44:39 | 300 | 60 | 3.0 | #56 Spectropho | 2 | |
| 0152.sn2004aw | 1500 | 8:18 | 11:57:50.2 | +25:15:55 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0153.COMP | 5 | 8:43 | 11:57:50.2 | +25:15:55 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0154-0163.FLAT | 20 | 8:49 | 11:57:50.2 | +25:15:55 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0164.test | 10 | 8:52 | 14:00:00 | 32:00:00 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0165.N4051 | 150 | 8:54 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | 300-line,3-sec,combo |
| 0166.N4051 | 150 | 8:56 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0167.COMP | 5 | 8:59 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0168.N4151 | 30 | 9:00 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0169.N4151 | 30 | 9:00 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0170.N4151 | 15 | 9:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0171.N4151 | 15 | 9:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0172.N4151 | 90 | 9:02 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0173.COMP | 5 | 9:03 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0174.M87 | 180 | 9:05 | 12:30:49.4 | 12:23:28 | 300 | 44 | 3.0 | #6 AGN Monitor | 4 | |
| 0175.M87 | 180 | 9:08 | 12:30:49.4 | 12:23:28 | 300 | 44 | 3.0 | #6 AGN Monitor | 4 | |
| 0176.COMP | 5 | 9:11 | 12:30:49.4 | 12:23:28 | 300 | 44 | 3.0 | #6 AGN Monitor | 4 | |
| 0177.N5548 | 240 | 9:12 | 14:17:59.6 | +25:08:12 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0178.N5548 | 240 | 9:16 | 14:17:59.6 | +25:08:12 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12205

UT Date 2004-03-26 Observers P Berlind

Coll. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--|
| 0179.COMP | 5 | 9:21 | 14:17:59.6 | +25:08:12 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0180.MRK279 | 180 | 9:22 | 13:51:53.6 | 69:33:13 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0181.MRK279 | 180 | 9:25 | 13:51:53.6 | 69:33:13 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0182.COMP | 5 | 9:28 | 13:51:53.6 | 69:33:13 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0183.M3pn | 1200 | 9:31 | 13:42:23.1 | +28:18:27 | 300 | 90 | 3.0 | #126 GRB | 2 | target is brightest object in middle of ccd, row86 |
| 0184.COMP | 10 | 9:53 | 13:42:23.1 | +28:18:27 | 300 | 90 | 3.0 | #126 GRB | 2 | beware nearby star in slit at row 83 |
| 0185.cl1331p6238 | 1800 | 9:55 | 13:31:33.0 | +62:38:31 | 300 | 45 | 3.0 | #150 Distant C | 2 | |
| 0186.COMP | 10 | 10:25 | 13:31:33.0 | +62:38:31 | 300 | 45 | 3.0 | #150 Distant C | 2 | |
| 0187.sn2004ax | 1200 | 10:32 | 15:24:46.7 | 68:43:56 | 300 | 5 | 3.0 | #2 SN Observat | 2 | |
| 0188.sn2004ax | 900 | 10:53 | 15:24:46.7 | 68:43:56 | 300 | 5 | 3.0 | #2 SN Observat | 2 | further east |
| 0189.COMP | 10 | 11:09 | 15:24:46.7 | 68:43:56 | 300 | 5 | 3.0 | #2 SN Observat | 2 | |
| 0190.BDp332642 | 120 | 11:12 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0191.BDp332642 | 120 | 11:15 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0192.COMP | 10 | 11:17 | 15:50:03.0 | 33:05:49 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0193.sn2004ay | 1200 | 11:23 | 18:28:57.5 | +51:38:55 | 300 | 60 | 3.0 | #2 SN Observat | 2 | more cirrus |
| 0194.COMP | 10 | 11:44 | 18:28:57.5 | +51:38:55 | 300 | 60 | 3.0 | #2 SN Observat | 2 | |
| 0195.USNO0778 | 600 | 11:48 | 17:41:55.2 | -12:11:56 | 300 | 0 | 3.0 | #149 Black Hol | 2 | |
| 0196.COMP | 10 | 12:02 | 17:41:55.2 | -12:11:56 | 300 | 0 | 3.0 | #149 Black Hol | 2 | |
| 0197.test | 10 | 12:05 | 17:00:00 | 30:00:00 | 300 | 90 | 3.0 | #149 Black Hol | 1 | |
| 0198.FineFoc | 60 | 12:08 | 16:56:22.7 | 31:00:40 | 300 | 90 | 3.0 | #149 Black Hol | 1 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 12206

UT Date 2004-03-26 Observers P BerlindColl. Focus 980 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0199.IGRJ17544 | 120 | 12:17 | 17:54:25.7 | -26:19:58 | 300 | 0 | 3.0 | #149 Black Hol | 2 | |
| 0200.IGRJ17544 | 300 | 12:20 | 17:54:25.7 | -26:19:58 | 300 | 0 | 3.0 | #149 Black Hol | 2 | |
| 0201.COMP | 10 | 12:25 | 17:54:25.7 | -26:19:58 | 300 | 0 | 3.0 | #149 Black Hol | 2 | |
| 0202.FineFoc | 60 | 12:29 | 16:56:22.7 | 31:00:40 | 300 | 90 | 3.0 | #149 Black Hol | 1 | |
| 0203.HatKepler | 20 | 12:34 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #126 GRB | 2 | |
| 0204.HatKepler | 30 | 12:35 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #126 GRB | 2 | |
| 0205.HatKepler | 30 | 12:35 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #126 GRB | 2 | |
| 0206.COMP | 10 | 12:36 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #126 GRB | 2 | |
| 0207-0216.BIAS | 0 | 12:40 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 4 | |
| 0217-0226.FLAT | 8 | 12:44 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 4 | |
| 0227-0236.BIAS | 0 | 12:46 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0237-0246.FLAT | 16 | 12:52 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |
| 0247-0256.DARK | 1200 | 15:55 | 19:57:57.3 | +33:53:01 | 300 | 90 | 3.0 | #149 Black Hol | 2 | |