



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9892

UT Date 2001-12-14 Observers P Berlind

Coll. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------------------|
| 0001-0010.BIAS | 0 | 0:51 | 22:58:34.0 | 31:29:43 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0011.FLAT | 8 | 0:51 | 22:59:04.0 | 31:29:43 | 300 | 90 | 3.0 | #57 Velocity S | 4 | cold; hazy; a few local clouds |
| 0012-0020.FLAT | 8 | 0:54 | 23:01:23.0 | 31:29:43 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0021-0030.BIAS | 0 | 0:56 | 23:03:34.0 | 31:29:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0031-0040.FLAT | 16 | 1:01 | 23:08:29.0 | 31:29:43 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0041.ZAnd | 1 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0042.ZAnd | 3 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0043.ZAnd | 6 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0044.ZAnd | 12 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0045.ZAnd | 25 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0046.COMP | 5 | 1:01 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 4 | |
| 0047.MRK509 | 180 | 1:01 | 20:44:09.8 | -10:43:24 | 300 | 45 | 3.0 | #6 AGN Monitor | 4 | |
| 0048.MRK509 | 180 | 1:01 | 20:44:09.8 | -10:43:24 | 300 | 45 | 3.0 | #6 AGN Monitor | 4 | |
| 0049.COMP | 5 | 1:01 | 20:44:09.8 | -10:43:24 | 300 | 45 | 3.0 | #6 AGN Monitor | 4 | |
| 0050.BDp284211 | 60 | 1:01 | 21:48:57.1 | 28:37:48 | 300 | 78 | 3.0 | #56 Spectropho | 2 | |
| 0051.BDp284211 | 60 | 1:01 | 21:48:57.1 | 28:37:48 | 300 | 78 | 3.0 | #56 Spectropho | 2 | |
| 0052.COMP | 10 | 1:01 | 21:48:57.1 | 28:37:48 | 300 | 78 | 3.0 | #56 Spectropho | 2 | |
| 0053.Feige110 | 150 | 1:01 | 23:17:23.5 | -05:26:22 | 300 | 12 | 3.0 | #56 Spectropho | 2 | |
| 0054.Feige110 | 150 | 1:01 | 23:17:23.5 | -05:26:22 | 300 | 12 | 3.0 | #56 Spectropho | 2 | |
| 0055.COMP | 10 | 1:01 | 23:17:23.5 | -05:26:22 | 300 | 12 | 3.0 | #56 Spectropho | 2 | hi Susan! |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9893

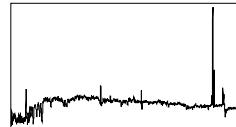
UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0056.N7469 | 120 | 1:01 | 23:03:15.7 | +08:52:27 | 300 | 30 | 3.0 | #6 AGN Monitor | 4 | |
| 0057.N7469 | 120 | 1:01 | 23:03:15.7 | +08:52:27 | 300 | 30 | 3.0 | #6 AGN Monitor | 4 | |
| 0058.COMP | 5 | 1:01 | 23:03:15.7 | +08:52:27 | 300 | 30 | 3.0 | #6 AGN Monitor | 4 | |
| 0059.sn2001ic | 1200 | 1:01 | 23:10:43.3 | +07:34:10 | 300 | 30 | 3.0 | #2 SN Observat | 2 | |
| 0060.COMP | 10 | 1:01 | 23:10:43.3 | +07:34:10 | 300 | 30 | 3.0 | #2 SN Observat | 2 | |
| 0061.Akn564 | 180 | 1:01 | 22:42:39.4 | +29:43:31 | 300 | 79 | 3.0 | #6 AGN Monitor | 4 | |
| 0062.Akn564 | 180 | 1:01 | 22:42:39.4 | +29:43:31 | 300 | 79 | 3.0 | #6 AGN Monitor | 4 | |
| 0063.COMP | 5 | 1:01 | 22:42:39.4 | +29:43:31 | 300 | 79 | 3.0 | #6 AGN Monitor | 4 | |
| 0064.sn2001ib | 1200 | 1:01 | 22:15:38.7 | +37:17:56 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0065.COMP | 10 | 1:01 | 22:15:38.7 | +37:17:56 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0066.MRK335 | 150 | 1:01 | 00:06:19.6 | +20:12:11 | 300 | 50 | 3.0 | #6 AGN Monitor | 4 | |
| 0067.MRK335 | 150 | 1:01 | 00:06:19.6 | +20:12:11 | 300 | 50 | 3.0 | #6 AGN Monitor | 4 | |
| 0068.COMP | 5 | 1:01 | 00:06:19.6 | +20:12:11 | 300 | 50 | 3.0 | #6 AGN Monitor | 4 | |
| 0069.M32 | 40 | 1:01 | 00:39:58 | +40:35:30 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0070.M32 | 40 | 1:01 | 00:39:58 | +40:35:30 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0071.COMP | 5 | 1:01 | 00:39:58 | +40:35:30 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0072.225m280 | 300 | 1:01 | 00:41:45.1 | +41:05:12 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0073.COMP | 5 | 1:01 | 00:41:45.1 | +41:05:12 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0074.ch2302p08a | 720 | 1:01 | 23:02:52.0 | 08:41:35 | 300 | 52 | 3.0 | #129 CHAMP Sou | 2 | |
| 0075.COMP | 5 | 1:01 | 23:02:52.0 | 08:41:35 | 300 | 52 | 3.0 | #129 CHAMP Sou | 2 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9894

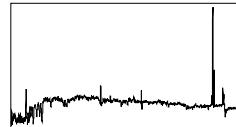
UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0076.ch2302p08b | 1200 | 1:01 | 23:03:8 | 08:42:33 | 300 | 52 | 3.0 | #129 CHAMP Sou | 2 | |
| 0077.COMP | 10 | 1:01 | 23:03:8 | 08:42:33 | 300 | 52 | 3.0 | #129 CHAMP Sou | 2 | |
| 0078.2MJ003441.5p554122 | 540 | 1:01 | 00:34:41.5 | +55:41:22 | 300 | 52 | 3.0 | #68 2MASS Reds | 4 | |
| 0079.COMP | 5 | 1:01 | 00:34:41.5 | +55:41:22 | 300 | 52 | 3.0 | #68 2MASS Reds | 4 | |
| 0080.2MJ010146.1p555655 | 720 | 1:01 | 01:01:46.1 | +55:56:55 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0081.COMP | 5 | 1:01 | 01:01:46.1 | +55:56:55 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0082.2MJ010045.3p780333 | 900 | 1:01 | 01:00:45.3 | +78:03:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0083.COMP | 5 | 1:01 | 01:00:45.3 | +78:03:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0084.2MJ010248.7p715829 | 720 | 1:01 | 01:02:48.7 | +71:58:29 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0085.COMP | 5 | 1:01 | 01:02:48.7 | +71:58:29 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0086.2MJ010357.5p803934 | 720 | 1:01 | 01:03:57.5 | +80:39:34 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0087.COMP | 5 | 1:01 | 01:03:57.5 | +80:39:34 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0088.2MJ011554.5p850953 | 240 | 1:01 | 01:15:54.5 | +85:09:53 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0089.COMP | 5 | 1:01 | 01:15:54.5 | +85:09:53 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0090.2MJ012439.0m123806 | 720 | 1:01 | 01:24:39.0 | -12:38:06 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0091.COMP | 5 | 1:01 | 01:24:39.0 | -12:38:06 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0092.2MJ014340.6m130701 | 360 | 1:01 | 01:43:40.6 | -13:07:01 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0093.COMP | 5 | 1:01 | 01:43:40.6 | -13:07:01 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0094.2MJ022958.9m131550 | 300 | 1:01 | 02:29:58.9 | -13:15:50 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0095.COMP | 5 | 1:01 | 02:29:58.9 | -13:15:50 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9895

UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------------------|
| 0096.2MJ023949.0m103624 | 360 | 1:01 | 02:39:49.0 | -10:36:24 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | |
| 0097.COMP | 5 | 1:01 | 02:39:49.0 | -10:36:24 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | |
| 0098.2MJ011102.8p742228 | 900 | 1:01 | 01:11:02.8 | +74:22:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0099.COMP | 5 | 1:01 | 01:11:02.8 | +74:22:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0100.2MJ013244.1p703426 | 1200 | 1:01 | 01:32:44.1 | +70:34:26 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0101.COMP | 5 | 1:01 | 01:32:44.1 | +70:34:26 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0102.2MJ015310.2p711115 | 480 | 1:01 | 01:53:10.2 | +71:11:15 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0103.COMP | 5 | 1:01 | 01:53:10.2 | +71:11:15 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0104.2MJ022923.2p840116 | 720 | 1:01 | 02:29:23.2 | +84:01:16 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0105.COMP | 5 | 1:01 | 02:29:23.2 | +84:01:16 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0106.sn2001if | 1200 | 1:01 | 02:28:54.9 | +38:05:52 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0107.COMP | 10 | 1:01 | 02:28:54.9 | +38:05:52 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0108.sn2001ep | 1200 | 1:01 | 04:57:00.2 | -04:45:40 | 300 | 15 | 3.0 | #2 SN Observat | 2 | |
| 0109.COMP | 10 | 1:01 | 04:57:00.2 | -04:45:40 | 300 | 15 | 3.0 | #2 SN Observat | 2 | |
| 0110.Akn120 | 210 | 1:01 | 05:13:38.0 | -00:12:15 | 300 | 15 | 3.0 | #6 AGN Monitor | 4 | |
| 0111.COMP | 5 | 1:01 | 05:13:38.0 | -00:12:15 | 300 | 15 | 3.0 | #6 AGN Monitor | 4 | |
| 0112.2MJ033903.0m025459 | 660 | 1:01 | 03:39:03.0 | -02:54:59 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | fainter comp to east |
| 0113.COMP | 10 | 1:01 | 03:39:03.0 | -02:54:59 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | |
| 0114.2MJ034858.3m010841 | 540 | 1:01 | 03:48:58.3 | -01:08:41 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0115.COMP | 5 | 1:01 | 03:48:58.3 | -01:08:41 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9896

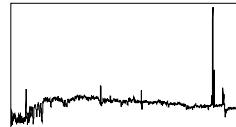
UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0116.2MJ042105.2m094710 | 270 | 1:01 | 04:21:05.2 | -09:47:10 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0117.COMP | 5 | 1:01 | 04:21:05.2 | -09:47:10 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0118.2MJ042927.2m111607 | 210 | 1:01 | 04:29:27.2 | -11:16:07 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0119.COMP | 5 | 1:01 | 04:29:27.2 | -11:16:07 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0120.2MJ043252.7m145728 | 600 | 1:01 | 04:32:52.7 | -14:57:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0121.COMP | 5 | 1:01 | 04:32:52.7 | -14:57:28 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0122.2MJ043706.0m094518 | 600 | 1:01 | 04:37:06.0 | -09:45:18 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0123.COMP | 5 | 1:01 | 04:37:06.0 | -09:45:18 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0124.2MJ043858.0p095333 | 300 | 1:01 | 04:38:58.0 | +09:53:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0125.COMP | 5 | 1:01 | 04:38:58.0 | +09:53:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0126.Hiltner600 | 60 | 1:01 | 06:42:37.2 | 02:11:25 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0127.Hiltner600 | 60 | 1:01 | 06:42:37.2 | 02:11:25 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0128.COMP | 10 | 1:01 | 06:42:37.2 | 02:11:25 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0129.2MJ044953.4m093703 | 240 | 1:01 | 04:49:53.4 | -09:37:03 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0130.COMP | 5 | 1:01 | 04:49:53.4 | -09:37:03 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0131.2MJ050811.9p050929 | 300 | 1:01 | 05:08:11.9 | +05:09:29 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0132.COMP | 5 | 1:01 | 05:08:11.9 | +05:09:29 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0133.2MJ052344.7m094105 | 420 | 1:01 | 05:23:44.7 | -09:41:05 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0134.COMP | 5 | 1:01 | 05:23:44.7 | -09:41:05 | 300 | 0 | 3.0 | #68 2MASS Reds | 4 | |
| 0135.BGGem | 1200 | 1:01 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9897

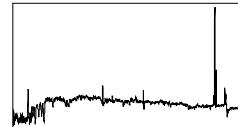
UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|-------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0136.BGGem | 300 | 1:01 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |
| 0137.COMP | 10 | 1:01 | 6:03:31 | 27:41:50 | 300 | 90 | 3.0 | #100 BGGem | 2 | |
| 0138.2MJ052814.5p560910 | 600 | 1:01 | 05:28:14.5 | +56:09:10 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0139.COMP | 5 | 1:01 | 05:28:14.5 | +56:09:10 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0140.2MJ052941.9p543944 | 600 | 1:01 | 05:29:41.9 | +54:39:44 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0141.COMP | 5 | 1:01 | 05:29:41.9 | +54:39:44 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0142.2MJ053035.6p530933 | 540 | 1:01 | 05:30:35.6 | +53:09:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0143.COMP | 5 | 1:01 | 05:30:35.6 | +53:09:33 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0144.2MJ054025.3p574047 | 540 | 1:01 | 05:40:25.3 | +57:40:47 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0145.COMP | 5 | 1:01 | 05:40:25.3 | +57:40:47 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0146.2MJ054049.3p845914 | 600 | 1:01 | 05:40:49.3 | +84:59:14 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | |
| 0147.COMP | 10 | 1:01 | 05:40:49.3 | +84:59:14 | 300 | 90 | 3.0 | #68 2MASS Reds | 2 | |
| 0148.2MJ054212.3p602836 | 480 | 1:01 | 05:42:12.3 | +60:28:36 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0149.COMP | 5 | 1:01 | 05:42:12.3 | +60:28:36 | 300 | 90 | 3.0 | #68 2MASS Reds | 4 | |
| 0150.sn2001gc | 1200 | 1:01 | 05:55:26.1 | +51:54:34 | 300 | 95 | 3.0 | #2 SN Observat | 2 | |
| 0151.COMP | 10 | 1:01 | 05:55:26.1 | +51:54:34 | 300 | 95 | 3.0 | #2 SN Observat | 2 | |
| 0152.ch0827p29a | 600 | 1:01 | 08:27:02.2 | 29:15:31 | 300 | 95 | 3.0 | #129 CHAMP Sou | 4 | |
| 0153.COMP | 5 | 1:01 | 08:27:02.2 | 29:15:31 | 300 | 95 | 3.0 | #129 CHAMP Sou | 4 | |
| 0154.sn2001fe | 1200 | 1:01 | 09:37:57.1 | +25:29:41 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0155.COMP | 10 | 1:01 | 09:37:57.1 | +25:29:41 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9898

UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0156.MRK110 | 360 | 1:01 | 09:25:12.9 | +52:17:10 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0157.COMP | 5 | 1:01 | 09:25:12.9 | +52:17:10 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0158.N3227 | 120 | 1:01 | 10:23:30.6 | +19:51:54 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0159.N3227 | 120 | 1:01 | 10:23:30.6 | +19:51:54 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0160.N3227 | 120 | 1:01 | 10:23:30.6 | +19:51:54 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0161.COMP | 5 | 1:01 | 10:23:30.6 | +19:51:54 | 300 | 0 | 3.0 | #6 AGN Monitor | 4 | |
| 0162.sn2001ie | 1200 | 1:01 | 10:16:50.7 | +60:16:44 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0163.COMP | 10 | 1:01 | 10:16:50.7 | +60:16:44 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0164.Feige34 | 120 | 1:01 | 10:36:41.2 | 43:21:50 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0165.Feige34 | 120 | 1:01 | 10:36:41.2 | 43:21:50 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0166.COMP | 10 | 1:01 | 10:36:41.2 | 43:21:50 | 300 | 0 | 3.0 | #56 Spectropho | 2 | |
| 0167.ch1057m03 | 330 | 1:01 | 10:57:01.9 | -03:41:45 | 300 | 0 | 3.0 | #129 CHAMP Sou | 4 | |
| 0168.COMP | 5 | 1:01 | 10:57:01.9 | -03:41:45 | 300 | 0 | 3.0 | #129 CHAMP Sou | 4 | |
| 0169.ch0933p79 | 1200 | 1:01 | 09:33:41.9 | 79:02:55 | 300 | 0 | 3.0 | #129 CHAMP Sou | 4 | |
| 0170.COMP | 5 | 1:01 | 09:33:41.9 | 79:02:55 | 300 | 0 | 3.0 | #129 CHAMP Sou | 4 | |
| 0171.MRK421 | 240 | 1:01 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0172.MRK421 | 240 | 1:01 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0173.COMP | 5 | 1:01 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0174.N4051 | 150 | 1:01 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0175.N4051 | 150 | 1:01 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 9899

UT Date 2001-12-14 Observers P BerlindColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------------------|
| 0176.COMP | 5 | 1:01 | 12:03:09.7 | +44:31:53 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0177.N4151 | 30 | 1:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | crystal clear @ dawn |
| 0178.N4151 | 30 | 1:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0179.N4151 | 30 | 1:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0180.COMP | 5 | 1:01 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0181-0190.BIAS | 0 | 13:18 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0191-0200.FLAT | 8 | 13:23 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 4 | |
| 0201-0210.BIAS | 0 | 13:26 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0211-0220.FLAT | 16 | 13:33 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |
| 0221-0230.DARK | 1200 | 16:36 | 12:10:32.6 | +39:24:21 | 300 | 90 | 3.0 | #6 AGN Monitor | 2 | |