

60 inch Telescope Log

Observer: P. BarthelPI: Huchra/WilkesSpectrograph: FASGrating: 300LPage: 3768Date: 6/2/95

| Number | Object      | R.A.       | Dec.      | L/R | Exp | Comments                     |
|--------|-------------|------------|-----------|-----|-----|------------------------------|
| 1-10   | BIAS        |            |           | 0   | 0   | clouds to N+W                |
| 11-20  | FLAT        |            |           | 0   | 6s  |                              |
| 21-25  | sky         |            |           | 0   | 2s  |                              |
| 26     | COMP        |            |           | ↑   |     |                              |
| 27-30  | AS1K2p43928 | 09:49:20   | +43:47:07 | 0   | 5s  |                              |
| 31     | COMP        |            |           | ↑   |     |                              |
| 32-33  | N3379       | 10:45:14   | +12:50:48 | 0   | 3m  |                              |
| 34     | COMP        |            |           | ↑   |     |                              |
| 35     | N4466B      | 12:28:00   | +12:45:59 | 0   | 5m  |                              |
| 36     | COMP        |            |           | ↑   |     |                              |
| 37     | H244        | 13:21:42   | +36:23:38 | 6   | 2m  |                              |
| 38     | COMP        |            |           | ↑   |     |                              |
| 39     | N5548       | 14:15:43   | +29:22:09 | 6   | 2m  |                              |
| 40     | COMP        |            |           | ↑   |     |                              |
| 41     | 11285p0325  | 11:31:06.8 | +03:09:32 | 1   | 5m  | H $\alpha$                   |
| 42     | COMP        |            |           | ↑   |     |                              |
| 43     | 11280p0401  | 11:30:36.9 | +03:45:32 | 1   | 5m  | H $\alpha$                   |
| 44     | COMP        |            |           | ↑   |     |                              |
| 45     | 11289p0621  | 11:31:31.3 | +06:05:32 | 1   | 5m  | star on slit to W H $\alpha$ |
| 46     | COMP        |            |           | ↑   |     |                              |
| 47     | 11287p0456  | 11:31:19.1 | +04:40:32 | 1   | 5m  | H $\alpha$                   |
| 48     | COMP        |            |           | ↑   |     |                              |
| 49     | 11288p0527  | 11:32:25.2 | +05:11:31 | 1   | 7m  | H $\alpha$                   |
| 50     | COMP        |            |           | ↑   |     |                              |
| 51     | 11304p0206  | 11:33:00.7 | +01:50:32 | 1   | 10m | H $\alpha$                   |
| 52     | COMP        |            |           | ↑   |     |                              |
| 53     | 11369p0345  | 11:39:30.8 | +03:29:31 | 1   | 5m  | H $\alpha$                   |
| 54     | COMP        |            |           | ↑   |     |                              |
| 55     | 11369p0602  | 11:39:31.3 | +07:46:31 | 1   | 5m  | H $\alpha$                   |
| 56     | COMP        |            |           | ↑   |     |                              |

180

| 60 inch Telescope Log     |             | Spectrograph: <u>FAST</u> |             | Page: <u>3789</u> |     |                                       |
|---------------------------|-------------|---------------------------|-------------|-------------------|-----|---------------------------------------|
| Observer: <u>P. Bernd</u> |             | Grating: <u>300L</u>      |             |                   |     |                                       |
| PI: <u>Huchra/Geller</u>  |             | Date: <u>6/2/95</u>       |             |                   |     |                                       |
| Number                    | Object      | R.A.                      | Dec.        | L/R               | Exp | Comments                              |
| 57                        | 11382 p0525 | 11:40:56.5                | +05:09:31   |                   | 7m  | *That's all of the 11 hour load dec   |
| 58                        | COMP        |                           |             | ↑                 |     | objects                               |
| 59                        | 13034 p0413 | 13:05:56.7                | +03:54:00   |                   | 5m  | H $\alpha$                            |
| 60                        | COMP        |                           |             | ↑                 |     |                                       |
| 61                        | 13043 p0443 | 13:06:47.2                | +07:28:35   |                   | 5m  | what?!! no H $\alpha$ ?               |
| 62                        | COMP        |                           |             | ↑                 |     |                                       |
| 63                        | N4991       | 13:09:12.9                | +02:22:40   |                   | 5m  | H $\alpha$                            |
| 64                        | COMP        |                           |             | ↑                 |     | thru cloud                            |
| 65                        | 13062 p0452 | 13:08:42.1                | +04:37:39   |                   | 5m  | H $\alpha$                            |
| 66                        | COMP        |                           |             | ↑                 |     |                                       |
| 67                        | 13072 p0244 | 13:09:42.7                | +02:21:41   |                   | 5m  | H $\alpha$                            |
| 68                        | COMP        |                           |             | ↑                 |     |                                       |
| 69                        | 13070 p0513 | 13:09:29.9                | +04:58:41   |                   | 4m  |                                       |
| 70                        | COMP        |                           |             | ↑                 |     |                                       |
| 71                        | 13040 p5929 | 13:06:02.2                | +59:14:35   |                   | 5m  | H $\alpha$                            |
| 72                        | COMP        |                           |             | ↑                 |     |                                       |
| 73                        | 13076 p5933 | 13:09:34.3                | +59:18:42   |                   | 4m  | moon set                              |
| 74                        | COMP        |                           |             | ↑                 |     |                                       |
| 75                        | N4998       | 13:08:08.1                | +50:41:39   |                   | 5m  | H $\alpha$                            |
| 76                        | COMP        |                           |             | ↑                 |     |                                       |
| 77                        | D89         | 12:58:56.3                | +27:50:16   |                   | 10m | rotated to position 42; for 11h on C. |
| 78                        | COMP        |                           |             | ↑                 |     |                                       |
| 79                        | 327.067267  | 15:29:03.11               | +30:34:32.7 | 3                 | 5m  |                                       |
| 80                        | COMP        |                           |             | ↑                 |     |                                       |
| 81                        | 327.067426  | 15:10:06.28               | +30:42:12.9 | 3                 | 5m  |                                       |
| 82                        | COMP        |                           |             | ↑                 |     |                                       |
| 83                        | 327.067431  | 15:18:01.05               | +30:42:41.4 | 3                 | 7m  |                                       |
| 84                        | COMP        |                           |             | ↑                 |     |                                       |
| 85                        | 327.068652  | 15:01:54.49               | +30:45:25.2 | 3                 | 7m  |                                       |
| 86                        | COMP        |                           |             | ↑                 |     |                                       |

NOT  
Reduced

CAN NOT read file 77

624-3176

60 inch Telescope Log

Observer: P. BerlandPI: GellarSpectrograph: FASTGrating: 300LDate: 6/2/95Page: 3710

| Number | Object     | R.A.       | Dec.        | L/R | Exp | Comments  |
|--------|------------|------------|-------------|-----|-----|---|
| → 97   | 327.068714 | 15:27:49.2 | +30:46:39.8 | 3   | 7m  | out of order weak <sup>to</sup> <sub>best</sub> |
| 98     | COMP       |            |             | ↑   |     | skipped catalog #                               |
| → 97   | 327.068751 | 15:29:03.9 | +30:46:18.7 | 3   | 7m  | long power outage ~ 34min                       |
| 98     | COMP       |            |             | ↑   |     |   |
| 99     | 327.069321 | 15:27:04.4 | +30:49:23.2 | 3   | 5m  |   |
| 90     | COMP       |            |             | ↑   |     |   |
| 91     | 327.071764 | 15:14:31.8 | +31:01:49.2 | 3   | 5m  |   |
| 92     | COMP       |            |             | ↑   |     |   |
| 93     | 327.072882 | 15:01:57.2 | +31:04:21.9 | 3   | 7m  | H+  |
| 94     | COMP       |            |             | ↑   |     |   |
| 95     | 327.073604 | 15:03:17.6 | +31:08:11.2 | 3   | 7m  | no chart -oops                                  |
| 96     | COMP       |            |             | ↑   |     | object came up on slit                          |
| → 99   | 327.074522 | 15:10:40.5 | +31:14:08.7 | 3   | 7m  |   |
| 100    | COMP       |            |             | ↑   |     |   |
| 101    | 327.075011 | 15:15:09.3 | +31:16:46.2 | 3   | 7m  |   |
| 102    | COMP       |            |             | ↑   |     |   |
| 103    | 327.075027 | 15:06:21.2 | +31:15:21.6 | 3   | 5m  |   |
| 104    | COMP       |            |             | ↑   |     |   |
| 105    | 327.076057 | 15:15:28.8 | +31:21:31.7 | 3   | 5m  |   |
| 106    | COMP       |            |             | ↑   |     |   |
| 107    | 327.076231 | 15:19:59.5 | +31:22:10.7 | 3   | 5m  |   |
| 108    | COMP       |            |             | ↑   |     |   |
| 109    | 327.076845 | 15:16:11.5 | +31:25:34   | 3   | 4m  |   |
| 110    | COMP       |            |             | ↑   |     |   |
| 111    | 327.082118 | 15:11:46.4 | +31:56:26.5 | 3   | 5m  |   |
| 112    | COMP       |            |             | ↑   |     |   |
| 113    | 327.083468 | 15:13:36.1 | +31:52:30.4 | 3   | 5m  |   |
| 114    | COMP       |            |             | ↑   |     |   |
| 115    | 327.083838 | 15:21:50.2 | +31:58:03.4 | 3   | 5m  | H+  |
| 116    | COMP       |            |             | ↑   |     |   |

| 60 inch Telescope Log       |             | Spectrograph: <u>FAST</u> |              |     |     | Page: <u>3771</u>       |
|-----------------------------|-------------|---------------------------|--------------|-----|-----|-------------------------|
| Observer: <u>P. Berlind</u> |             | Grating: <u>300R</u>      |              |     |     |                         |
| PI: <u>Geller/Huehner</u>   |             | Date: <u>6/2/95</u>       |              |     |     |                         |
| Number                      | Object      | R.A.                      | Dec.         | L/R | Exp | Comments                |
| 117                         | 327.084365  | 15:20:13.82               | +32:40:301   | 3   | 5m  |                         |
| 118                         | COMP        |                           |              | ↑   |     | humidity ↑↑             |
| 119                         | 327.085484  | 15:25:47.6                | +32:04:32    | 3   | 5m  | seems pretty clear      |
| 120                         | COMP        |                           |              | ↑   |     | seems 2"                |
| 121                         | 327.086332  | 15:22:43.1                | +32:04:55.9  | 3   | 7m  |                         |
| 122                         | COMP        |                           |              | ↑   |     |                         |
| 123                         | 327.086490  | 15:24:26.6                | +32:05:16.4  | 3   | 5m  |                         |
| 124                         | COMP        |                           |              | ↑   |     |                         |
| 125                         | 327.086497  | 15:02:14.1                | +32:07:26    | 3   | 5m  |                         |
| 126                         | COMP        |                           |              | ↑   |     |                         |
| 127                         | 327.086925  | 15:03:41.5                | +32:18:51.6  | 3   | 5m  |                         |
| 128                         | COMP        |                           |              | ↑   |     |                         |
| 129                         | 327.089913  | 15:23:41.55               | +32:24:16    | 3   | 5m  | finishes the plate!     |
| 130                         | COMP        |                           |              | ↑   |     |                         |
| 131                         | 16098p5234  | 16:11:04                  | +52:27.9     | 1   | 5m  |                         |
| 132                         | 16101p5235  | 16:11:23.7                | +52:27.35    | 1   | 4m  |                         |
| 133                         | COMP        |                           |              | ↑   |     |                         |
| 134                         | 16107p2825B | 16:10:42                  | +28:35.0     | 1   | 10m | for Abnrogan; Comp to - |
| 135                         | COMP        |                           |              | ↑   |     | cca galaxy -off         |
| 136                         | 17391p5919  | 17:39:47.7                | +51:17:30.35 | 1   | 5m  |                         |
| 137                         | COMP        |                           |              | ↑   |     |                         |
| 138                         | 17372p5710  | 17:38:02                  | +51:06:21.9  | 1   | 5m  | H+                      |
| 139                         | COMP        |                           |              | ↑   |     |                         |
| 140                         | 17421p5850  | 17:42:45.7                | +58:48.13    | 1   | 10m | H+                      |
| 141                         | COMP        |                           |              | ↑   |     |                         |
| 142                         | 17429p6250  | 17:43:17                  | +62:48.46    | 1   | 5m  | *burst                  |
| 143                         | COMP        |                           |              | ↑   |     |                         |
| 144                         | 17448p6634  | 17:44:48                  | +66:32.53    | 1   | 5m  |                         |
| 145                         | COMP        |                           |              | ↑   |     |                         |
| 146                         | 17491p5938  | 17:49:45.9                | +59:37:13.9  | 1   | 10m |                         |

| Number  | Object       | R.A.        | Dec.      | L/R | Exp | Comments             |
|---------|--------------|-------------|-----------|-----|-----|----------------------|
| 147     | COMP         |             |           | T   |     |                      |
| 148     | 17473 p6141S | 17:47:48    | +61:40:05 | 1   | 7m  | South Comp Ha        |
| 149     | 17473 p6141N | 17:47:48    | +61:40:05 | 1   | 7m  | North Ha             |
| 150     | COMP         |             |           | ↑   |     |                      |
| 151     | 17469 p592G  | 17:47:369   | +59:25:04 | 1   | 4m  | Ha                   |
| 152     | COMP         |             |           | ↑   |     |                      |
| 153     | 17454 p6447  | 17:45:363   | +64:45:56 | 1   | 4m  | star on slit to W    |
| 154     | COMP         |             |           | ↑   |     |                      |
| 155     | N6516        | 17:55:126   | +62:57:38 | 1   | 3m  |                      |
| 156     | COMP         |             |           | ↑   |     |                      |
| 157     | N6597        | 18:11:14.56 | +61:10:48 | 1   | 3m  | star on slit to W    |
| 158     | COMP         |             |           | ↑   |     | sky getting brighter |
| 159     | 3C3903       | 18:45:376   | +79:43:06 | 6   | 5m  |                      |
| 160     | COMP         |             |           | ↑   |     | murky but clear      |
| 161     | PG1708 p602  | 17:08:355   | +60:13:52 | 6   | 3m  | high humidity        |
| 162     | COMP         |             |           | ↑   |     |                      |
| 163-167 | AGK2 p24     | 17:01:06    | +24:55:05 | 0   | 10s |                      |
| 168     | COMP         |             |           | ↑   |     |                      |
| 169-173 | HP198858     | 20:49:50    | +47:30:07 | 0   | 4s  |                      |
| 174     | COMP         |             |           | ↑   |     |                      |
| 175-184 | BIAS         |             |           | 0   | 0s  |                      |
| 185-194 | FLAT         |             |           | 0   | 6s  |                      |
| 195-FIX | DARK         |             |           | 0   | 15m |                      |

Spectrograph out of focus from 158 m →  
to end of night