

Good Morning Susan!

FAX to Susan Lokar

pg 1 of 6

From FLW 60"

| | |
|---------------------------|--|
| 60 inch Telescope Log | Spectrograph: <u>FAST</u> |
| Observer: <u>P Berlin</u> | Grating: <u>3000, 3° slit, 6m by 4</u> |
| PI: <u>Huchra</u> | Date: <u>9/24/95</u> |
| | Page: <u>3956</u> |

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|------------|---------------|------------|-----------|-----|---------|--------------------------------|
| 1-25 | BIAS | | | 0 | 0s | Clouds all over |
| 26-35 | FLAT | | | 0 | 6s | |
| 36-40 | sky | | | 0 | 4s | fastflow = (arc) |
| 41 | COMP | | | ↑ | 10s | |
| 42-43 | Cyg OB2 no 9 | 20:31:23 | +41:01:50 | 0 | 30s | |
| 44 | COMP | | | ↑ | | |
| 45, 46, 47 | N7331 | 22:34 | +34:45 | 0 | 30s, 2m | nucleus |
| 48 | COMP | | | ↑ | | |
| 49 | 16044 p6936 | 16:04:07 | +69:28:15 | 1 | 4m | |
| 50 | COMP | | | ↑ | | |
| 51 | 16049 p6795 | 16:02:27 | +64:21:10 | 1 | 5m | H α through the roof |
| 52 | COMP | | | ↑ | | *burst; lots of lines |
| 53 | 16019 p6429 N | 16:02:42 | +64:21:10 | 1 | 10m | LSB H α |
| 54 | COMP | | | ↑ | | |
| 55 | 16060 p7915 | 16:04:30.9 | +77:37:58 | 1 | 10m | H α |
| 56 | COMP | | | ↑ | | clouds... |
| 57 | 16110 p8126 | 16:06:20.1 | +81:18:27 | 1 | 4m | |
| 58 | COMP | | | ↑ | | centered @ row 45 |
| 59 | 16138 p6323E | 16:14:10.2 | +63:15:43 | 1 | 7m | E Comp (some spillover from W) |
| 60 | 16138 p6323W | 16:14 | +63:15 | 1 | 3m | W Comp |
| 61 | COMP | | | ↑ | ↑ | centered @ row 41 |
| 62 | 16136 p6323 | 16:13:36 | +63:23:02 | 1 | 10m | LSB |
| 63 | COMP | | | ↑ | | increasing clouds |
| 64 | 16140 p6507 | 16:14:12.7 | +64:59:43 | 1 | 7m | H α |
| 65 | COMP | | | ↑ | | |
| 66 | 16160 p6528 | 16:16:10.5 | +65:20:46 | 1 | 7m | |
| 67 | COMP | | | ↑ | | |
| 68 | 16216 p7358 | 16:20:27.7 | +73:51:03 | 1 | 7m | |
| 69 | COMP | | | ↑ | | |
| 70 | PG1708 p602 | 17:08 | 60:13 | 0 | 3m | |

60 inch Telescope Log

Observer: P. Beland

PI: Wilkes/Kemp

Spectrograph: FAST

Grating: 300R

Date: 9/24/95

Page: 3957

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|------------|------------|-----------|-----|-----|-----------------|
| 71 | COMP | | | ↑ | | clouds |
| 72 | 3C390.3 | 18:45:37 | +79:41:07 | 6 | 7m | |
| 73 | COMP | | | ↑ | | |
| 74 | MRK509 | 20:41:26 | +10:54:18 | 6 | 90s | |
| 75 | COMP | | | ↑ | | |
| 76 | DDP28421 | 21:48 | +78:37 | 0 | 30s | |
| 77 | COMP | | | ↑ | | |
| 78 | MRK335 | 00:03 | +19:55 | 6 | 90s | clouds big time |
| 79 | COMP | | | ↑ | | |
| 80 | IC5146.034 | 21:44 | +47:33 | 30 | 1m | high sn ↓ |
| 81 | COMP | | | ↑ | | |
| 82 | IC5146.037 | 21:46 | +47:32 | 30 | 5m | |
| 83 | COMP | | | ↑ | | |
| 84 | IC5146.038 | 21:47 | +47:33 | 30 | 5m | |
| 85 | COMP | | | ↑ | | |
| 86 | IC5146.039 | 21:47 | +47:33 | 30 | 5m | |
| 87 | COMP | | | ↑ | | |
| 88 | IC5146.036 | 21:46 | +47:36 | 30 | 5m | |
| 89 | COMP | | | ↑ | | |
| 90 | IC5146.035 | 21:45 | +47:31 | 30 | 8m | |
| 91 | COMP | | | ↑ | | |
| 92 | IC5146.033 | 21:44 | +47:38 | 30 | 6m | |
| 93 | COMP | | | ↑ | | |
| 94 | IC5146.043 | 21:47 | +47:39 | 30 | 7m | |
| 95 | COMP | | | ↑ | | |
| 96 | IC5146.044 | 21:45:19.2 | +47:39:16 | 30 | 6m | |
| 97 | COMP | | | ↑ | | |
| 98 | IC5146.045 | 21:45 | +47:31 | 30 | 3m | |
| 99 | COMP | | | ↑ | | |
| 100 | IC5146.047 | 21:47 | +47:37 | 30 | 3m | |

| 60 inch Telescope Log | | | | Spectrograph: <u>FAST</u> | | Page: <u>3958</u> | |
|--------------------------------|------------|-------------|-------------|---------------------------|-----|-------------------|--|
| Observer: <u>P. Bernd</u> | | | | Grating: <u>302</u> | | | |
| PI: <u>Kenyon & Geller</u> | | | | Date: <u>9/24/95</u> | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments | |
| 101 | COMP | | | ↑ | | | |
| 102 | TC5146.048 | 21:47 | +47:37 | 30 | 6m | | |
| 103 | COMP | | | ↑ | | | |
| 104 | TC5146.049 | 21:45 | +47:38 | 30 | 7m | | |
| 105 | COMP | | | ↑ | | | |
| 106 | TC5146.050 | 21:46:55.3 | +47:36:45 | 30 | 4m | | |
| 107 | COMP | | | ↑ | | | |
| 108 | TC5146.051 | 21:47:26.7 | +47:35:19 | 30 | 4m | | |
| 109 | COMP | | | ↑ | | | |
| 110 | TC5146.005 | 21:46 | +47:35 | 30 | 7m | | |
| 111 | COMP | | | ↑ | | | |
| 112 | TC5146.007 | 21:46:23 | +47:35:49 | 30 | 15m | | |
| 113 | COMP | | | ↑ | | | |
| 114 | VISIS Cap | 21:45:27 | +47:18:06 | 12 | 15m | | |
| 115 | COMP | | | ↑ | | | |
| 116, 117 | Fare 110 | 23:17:23 | -05:26:22 | 0 | 1m | thin cloud | |
| 118 | COMP | | | ↑ | | | |
| 119 | 523.037306 | 23:43:24 | +11:43:58 | 3 | 10m | H _α | |
| 120 | COMP | | | ↑ | | | |
| 121 | 523.038215 | 23:45:24 | +11:46:46 | 3 | 10m | | |
| 122 | COMP | | | ↑ | | | |
| 123 | 523.038456 | 23:44:13.46 | +11:46:43 | 3 | 10m | H _α | |
| 124 | COMP | | | ↑ | | | |
| 125 | 523.039741 | 23:31:56.15 | +11:50:50.8 | 3 | 15m | | |
| 126 | COMP | | | ↑ | | clearing... | |
| 127 | 523.040448 | 23:34:42 | +11:53:18 | 3 | 15m | | |
| 128 | COMP | | | ↑ | | | |
| 129 | 523.040663 | 23:36:26 | +11:54:53 | 3 | 10m | | |
| 130 | COMP | | | ↑ | | | |
| 131 | 523042749 | 23:51:06.86 | +12:00:21.4 | 3 | 15m | | |

60 inch Telescope Log

Observer: P. Bernhol

PI: Geller

Spectrograph: FAST

Grating: 3000

Date: 9/24/55

Page: 3859

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|--------------|-------------|------------|-----|-----|----------------------------|
| 132 | COMP | | | ↑ | | |
| 133 | 523.044760 | 23:37:38 | +12:06:004 | 3 | 10m | H _α |
| 134 | COMP | | | ↑ | | |
| 135 | 523.045324 | 23:31:55 | +12:08:106 | 3 | 10m | |
| 136 | COMP | | | ↑ | | |
| 137 | 523.045819 | 23:46:50 | +12:10:35 | 3 | 8m | |
| 138 | COMP | | | ↑ | | |
| 139 | 523.045881 | 23:32:08.7 | +12:10:04 | 3 | 10m | |
| 140 | COMP | | | ↑ | | |
| 141 | 523.046651 | 23:47:46.15 | +12:13:00 | 3 | 10m | |
| 142 | COMP | | | ↑ | | |
| 143 | 523.046855 | 23:46:56.9 | +12:13:52 | 3 | 8m | H _α |
| 144 | COMP | | | ↑ | | |
| 145 | 523.046824 | 23:37:30 | +12:13:30 | 3 | 10m | |
| 146 | COMP | | | ↑ | | |
| 147 | 523.047353 | 23:42:07.84 | +12:15:32 | 3 | 8m | |
| 148 | COMP | | | ↑ | | |
| 149 | 523.054888 | 23:58:59 | +12:33:17 | 3 | 8m | H _α |
| 150 | COMP | | | ↑ | | |
| 151 | 523.054914 | 23:47:06 | +12:38:34 | 3 | 8m | |
| 152 | COMP | | | ↑ | | |
| 153 | 523.056178 | 23:53:00.70 | +12:41:46 | 3 | 10m | H _α |
| 154 | COMP | | | ↑ | | |
| 155 | Abell 3070 | 02:05:24 | +10:14:40 | 1 | 15m | |
| 156 | COMP | | | ↑ | | |
| 157 | Abell 3070AB | 02:05:24 | +10:14:40 | 1 | 20m | A+B Comps (A is West of B) |
| 158 | COMP | | | ↑ | | Zoom! |
| 159 | 468.050810 | 01:49:19 | +13:02:30 | 3 | 10m | Star on slit to W |
| 160 | COMP | | | ↑ | | |
| 161 | 468.051971 | 01:50:07 | +13:06:35 | 3 | 10m | |

141 - did not get emtamp. Got shielded but
 149 -
 169

(149)

| 60 inch Telescope Log | | Spectrograph: <u>FAST</u> | | Page: <u>3960</u> | | |
|-----------------------------|------------|---------------------------|-----------|----------------------|-----|---------------------|
| Observer: <u>P. Benford</u> | | Grating: <u>300</u> | | Date: <u>9/24/95</u> | | |
| PI: <u>Geller/Huchra</u> | | | | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 162 | COMP | | | ↑ | | |
| 163 | 468.052765 | 01:44:26 | +13:05:34 | 3 | 7m | H α |
| 164 | COMP | | | ↑ | | |
| 165 | 468.055250 | 01:38:03 | +13:18:18 | 3 | 7m | finishes the plate! |
| 166 | COMP | | | ↑ | | |
| 167 | Abell 415A | 03:04:30.5 | -12:18:18 | ↑ | 12m | |
| 168 | COMP | | | ↑ | | |
| 169 | Abell 415B | 03:06:53 | -11:58:07 | 1 | 10m | H α |
| 170 | COMP | | | ↑ | | |
| 171 | Abell 415D | 03:06:51 | -11:57:23 | 1 | 8m | |
| 172 | COMP | | | ↑ | | |
| 173 | 4710.0338 | 03:05:33.3 | -4:35:26 | 1 | 4m | |
| 174 | COMP | | | ↑ | | |
| 175 | 4710.1095 | 03:06:17 | -04:17:30 | 1 | 3m | |
| 176 | COMP | | | ↑ | | |
| 177 | 4715.0815A | 03:21:34.2 | -06:06:38 | 1 | 5m | H α |
| 178 | 4715.0815B | 03:21:34.2 | -06:06:45 | 1 | 4m | H α |
| 179 | COMP | | | ↑ | | |
| 180 | 4712.0920 | 03:23:48.5 | -04:54:35 | 1 | 4m | |
| 181 | COMP | | | ↑ | | |
| 182-184 | HD 258174 | 05:35:12 | 02:01:00 | 1 | 10s | |
| 185 | COMP | | | ↑ | | |
| 186 | HD 252117 | 06:02:18 | +04:15:20 | 1 | 10s | |
| 187 | COMP | | | ↑ | | |
| 188-189 | HD 49641 | 06:44:16 | +03:49:00 | 1 | 10s | |
| 190 | COMP | | | ↑ | | |
| 191, 192 | HD 49841 | 06:45:18 | +03:46:00 | 1 | 10s | |
| 193 | COMP | | | ↑ | | |
| 194, 195 | HD 50082 | 06:46:30 | +06:43:00 | 1 | 10s | |
| 196 | COMP | | | ↑ | | |

5:25

