

Fax to Susan Tokarz
Pr 1.64

60 inch Telescope Log
 Observer: PB
 PI: W. K. Kishner/Grogin
 Spectrograph: FAST
 Grating: 300R
 Date: 6/5/97
 Page: 5/76

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|--------------|-------|--------|-----|-----|------------------------------------|
| 110 | BIAS | | | 0 | 0s | |
| 11-20 | FLAT | | | 0 | 6s | |
| 21-30 | BIAS | | | 0 | 0s | clouds all over |
| 31-40 | FLAT | | | 0 | 12s | |
| 41-45 | SKY | | | 57 | 2s | SKYS ARE BIN BY 2 here <i>york</i> |
| 46 | COMP | | | ↑ | 7s | |
| 47-48 | Ferg66 | 12:34 | +25:20 | 56 | 1m | |
| 49 | COMP | | | ↑ | | |
| 50 | N4151 | 12:08 | +29:41 | 6 | 45s | |
| 51 | COMP | | | ↑ | | |
| 52 | N5518 | 14:15 | +25:22 | 6 | 4m | |
| 53 | COMP | | | ↑ | | clearing some |
| 54-55 | N4853 | 12:58 | +27:35 | 67 | 4m | pair seeing |
| 56 | COMP | | | ↑ | | |
| 57 | MRK421 | 11:41 | +38:28 | 6 | 5m | |
| 58 | COMP | | | ↑ | | |
| 59 | MRK279 | 13:51 | +69:33 | 6 | 3m | |
| 60 | COMP | | | ↑ | | |
| 61,63 | SNR9716g | 10:17 | +73:23 | 2 | 15m | |
| 62,64 | COMP | | | ↑ | | |
| 65 | H244 | 13:21 | +36 | 56 | 2m | |
| 66 | COMP | | | ↑ | | |
| 67 | 13020 p06155 | 13:02 | +06:15 | 42 | 10m | em |
| 68 | COMP | | | ↑ | | |
| 69 | 13120 m0302 | 13:12 | -03:02 | 42 | 10m | em more clouds |
| 70 | COMP | | | ↑ | | |
| 71 | 11315 m0319C | 11:31 | -03:19 | 42 | 4m | ^{rods} SE Comp bimby 2 |
| 72 | 11315 m0319A | 11:31 | -03:19 | 42 | 6m | SW Comp wk emp 2750 |
| 73 | 11315 m0319B | 11:31 | -03:19 | 42 | 10m | N Comp wk em 2024 |
| 74 | COMP | | | ↑ | | |

64 TOTAL

60 inch Telescope Log

Observer: PB

PI: Geller/Horanyi/Huchra

Spectrograph: FAST

Grating: 302L

Date: 6/5/97

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| Number | Object | R.A. | Dec. | C/R | Exp | Comments |
|--------|-------------|-------|--------|-----|-----|-------------------------|
| 75 | infall.c.13 | 13:08 | +25:18 | 64 | 15m | clouds all over |
| 76 | COMP | | | ↑ | | |
| 77 | infall.c.18 | 13:09 | +25:42 | 64 | 12m | |
| 78 | COMP | | | ↑ | | |
| 79 | infall.c.19 | 13:09 | +24:34 | 64 | 5m | em + |
| 80 | COMP | | | ↑ | | |
| 81 | infall.c.20 | 13:10 | +24:50 | 64 | 12m | |
| 82 | COMP | | | ↑ | | |
| 83 | infall.c.21 | 13:10 | +24:51 | 64 | 12m | wk em |
| 84 | COMP | | | ↑ | | |
| 85 | infall.c.23 | 13:11 | +24:40 | 64 | 15m | |
| 86 | COMP | | | ↑ | | |
| 87 | infall.c.24 | 13:11 | +25:19 | 64 | 15m | wrong data type - fixed |
| 88 | COMP | | | ↑ | | |
| 89 | gwm3-61 | 14:29 | +25:21 | 35 | 15m | grr - more clouds wk |
| 90 | COMP | | | ↑ | | |
| 91 | I4503 | 14:44 | +16:21 | 1 | 4m | |
| 92 | COMP | | | ↑ | | |
| 93 | I4494 | 14:42 | +15:45 | 1 | 8m | |
| 94 | COMP | | | ↑ | | |
| 95 | NS780 | 14:52 | +29:09 | 1 | 5m | em |
| 96 | COMP | | | ↑ | | |
| 97 | 14494p0334 | 14:49 | +03:34 | 1 | 7m | em |
| 98 | COMP | | | ↑ | | |
| 99 | 15030p0317 | 15:03 | +03:17 | 1 | 8m | extended em |
| 100 | COMP | | | ↑ | | |
| 101 | 1519Sp1326 | 15:19 | +13:26 | 1 | 7m | |
| 102 | COMP | | | ↑ | | |
| 103 | 15203p0854 | 15:20 | +08:54 | 1 | 5m | |
| 104 | COMP | | | ↑ | | |

60 inch Telescope Log

Observer: PB

PI: Huchra

Spectrograph: FAST

Grating: 300L

Date: 6/5/77

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| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|-----------------|-------|--------|-----|-----|-----------------------|
| 105 | 15206 p0657 | 15:20 | +08:57 | 1 | 5m | |
| 106 | COMP | | | ↑ | | |
| 107 | 15281 p2718 | 15:28 | +27:18 | 1 | 5m | poor seeing |
| 108 | COMP | | | ↑ | | |
| 109 | I1130 | 15:35 | +17:25 | 1 | 8m | |
| 110 | COMP | | | ↑ | | |
| 111 | I4575 | 15:40 | +23:59 | 1 | 5m | * to E |
| 112 | COMP | | | ↑ | | |
| 113 | I4577 | 15:40 | +23:59 | 1 | 7m | |
| 114 | COMP | | | ↑ | | |
| 115 | 15551 p2558 | 15:55 | +25:58 | 1 | 5m | - bin by 2 close pair |
| 116 | COMP | | | ↑ | | un-resolved |
| 117 | 15408 p1555 | 15:40 | +15:55 | 1 | 4m | |
| 118 | COMP | | | ↑ | | |
| 119 | 15464 p0856 | 15:46 | +08:56 | 1 | 7m | LSB em! |
| 120 | COMP | | | ↑ | | |
| 121 | 15571 p0958 | 15:57 | +09:58 | 1 | 8m | em |
| 122 | COMP | | | ↑ | | |
| 123 | 16509 p0419 | 16:50 | +04:19 | 1 | 6m | em |
| 124 | COMP | | | ↑ | | |
| 125 | 160046 p161129 | 16:00 | +16:11 | 25 | 12m | |
| 126 | COMP | | | ↑ | | |
| 127 | 155951 p152118a | 15:59 | +15:21 | 25 | 8m | bin by 2 E+W W=* |
| 128 | COMP | | | ↑ | | E=orig target |
| 129 | 160351 p155513 | 16:03 | +15:55 | 25 | 7m | |
| 130 | COMP | | | ↑ | | |
| 131 | 160053 p155640 | 16:00 | +15:56 | 25 | 12m | |
| 132 | COMP | | | ↑ | | |
| 133 | 160210 p160853 | 16:02 | +16:08 | 25 | 12m | |
| 134 | COMP | | | ↑ | | |

60 inch Telescope Log

Observer: RB

PI: Huchra

Spectrograph: FAST

Grating: 30R

Date: 6/5/97

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| Number | Object | R. A. | Dec. | L/R | Exp | Comments |
|---------|-------------------|-------|--------|-----|-------------|----------------|
| 135 | 16024/p164086 | 16:02 | +16:40 | 25 | 10m | |
| 136 | COMP | | | ↑ | | |
| 137 | 16040sp175518 | 16:04 | +17:55 | 25 | 9m | clouds! |
| 138 | COMP | | | ↑ | | |
| 139 | 17412p7403 | 17:41 | +14:03 | 43 | 6m | |
| 140 | COMP | | | ↑ | | |
| 141 | 17430p643 | 17:43 | +69:43 | 43 | 5m | |
| 142 | COMP | | | ↑ | | |
| 143 | 17435p6846 | 17:43 | +68:46 | 43 | 5m | em poor seeing |
| 144 | COMP | | | ↑ | | |
| 145 | 17452p5522 | 17:45 | +59:22 | 43 | 10m | |
| 146 | COMP | | | ↑ | | |
| 147 | N6464 | 17:45 | +60:55 | 43 | 7m | em |
| 148 | COMP | | | ↑ | | |
| 149 | 17454p6447 | 17:45 | +64:47 | 43 | 5m | |
| 150 | COMP | | | ↑ | | |
| 151 | N7469 | 20:07 | +08:52 | 6 | 2m | |
| 152 | COMP | | | ↑ | | |
| 153-155 | CIC ₂₈ | 19:50 | +35:41 | 12 | 2m, 20s, 2s | |
| 156 | COMP | | | ↑ | | |
| 157-159 | HDF2281 | 20:10 | +40:07 | 5L | 5s | clouds around |
| 160 | COMP | | | ↑ | | o disk |
| 161-170 | ISIS | | | 0 | 0s | |
| 171-180 | FLAT | | | 0 | 6s | |
| 181-190 | ISIS | | | 0 | 0s | |
| 191-200 | FLAT | | | 0 | 12s | |