

## Observing Log

Object NGC 6341 - M92 Date 12/3/03 UTC/civil  
Right Ascension 17 17.1 Time 6:40P UTC/std/ds  
Declination +43 05 Seeing: Transparency OK  
Constellation Her Steadiness Fair  
Magnitude 6.4 Temperature 45°  
Size Small Telescope 18" f/14.2  
Eyepiece/Magnification 40 mm / 163x  
Filters None

### Notes:

Small, dim yet easy to see. Saw many member stars.

## Observing Log

Object NGC 6205 - M13 Date 12/3/03 UTC/civil  
Right Ascension 16 41.7 Time 6:43 P UTC/std/ds  
Declination +36 28 Seeing: Transparency OK  
Constellation Her Steadiness Fair  
Magnitude 5.7 Temperature 45°  
Size Large Telescope 18" f/14.2  
Eyepiece/Magnification 40 mm / 163  
Filters None

### Notes:

Always nice to see one of my favorites.  
Fills FOV nicely. Round. See lots of member stars.

## Observing Log

Object NGC 6720-M57 Date 12/3/03 UTC/civil  
Right Ascension 18 53.6 Time 7:35P UTC/std/ds  
Declination +33 02 Seeing: Transparency Good  
Constellation Lyr Steadiness OK  
Magnitude 8.8 Temperature 40°  
Size Small Telescope 18" f/14.2  
Eyepiece/Magnification 40mm/163  
Filters None

### Notes:

Nice green hue to oval shape. Rather dim yet very easy to see.

## Observing Log

Object B Cygnus Date 12/3/03 UTC/civil  
Right Ascension 19 30.7 Time 7:40P UTC/std/ds  
Declination +27 58 Seeing: Transparency Good  
Constellation Cyg Steadiness OK  
Magnitude 3.1, 5.1 Temperature 40°  
Size Small Telescope 18" f/14.2  
Eyepiece/Magnification 40mm/163  
Filters None

### Notes:

Nicest double in sky, IMHO.  
Love the blue & gold. Widely separated.  
Fills FOV nicely in center.

## Observing Log

Object E Lyr Date 12/3/03 UTC/civil  
Right Ascension 18 44.3 Time 6:45P UTC/std/ds  
Declination +39 40 Seeing: Transparency OK  
Constellation Lyr Steadiness Fair  
Magnitude 5.1, 5.2, 5.5 Temperature 45°  
Size \_\_\_\_\_ Telescope 18" f/14.2  
Eyepiece/Magnification 40mm/163  
Filters \_\_\_\_\_

### Notes:

Nice double, double. Split the doubles  
some of the time. Mostly ∞ blob.

## Observing Log

Object N6C 129 Date 1-12-04 UTC/civil  
Right Ascension 00 29.9 Time 9:04 UTC/std/ds  
Declination +60 14 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 6.5 Temperature 45°  
Size 21.0' Telescope 20x80 binocs  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Small Compact glow of about 8  
blue-white stars

## Observing Log

Object M45 Date 1-12-04 UTC/civil  
Right Ascension 03 46.9 Time 9:06P UTC/std/ds  
Declination +24 07 Seeing: Transparency Good  
Constellation Tau Steadiness Good  
Magnitude 1.2 Temperature 45°  
Size 110' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Nice - completely fills FOV of 20x80  
8-10 Brighter blue-white stars w/ 20+  
much dimmer forming this OC.

## Observing Log

Object Hydes Date 1-12-04 UTC/civil  
Right Ascension 04 27.0 Time 9:10P UTC/std/ds  
Declination +16 00 Seeing: Transparency Good  
Constellation Tau Steadiness Good  
Magnitude 0.5 Temperature 45°  
Size 330' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Very loose association of stars Anchored by  
Aldebaran. Forms a hive w/ 20-30 Blue  
white stars scattered amongst ∴ ← most

Stars concentrated  
around this one. Brightest  
of area. 9 or so about  
same magnitude.

## Observing Log

Object M42 - NGC 1976 Date 1-12-04 UTC/civil  
Right Ascension 05 35.4 Time 9:24 P UTC/std/ds  
Declination -05 27 Seeing: Transparency Good  
Constellation Ori Steadiness Good  
Magnitude 3.7 Temperature 45°  
Size 90' x 60' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Blowing gas easy to see. Drifts away a bit from central part. Trapezium easy to see

## Observing Log

Object NGC 1981 Date 1-12-04 UTC/civil  
Right Ascension 05 35.2 Time 9:25 P UTC/std/ds  
Declination -04 26 Seeing: Transparency Good  
Constellation Ori Steadiness Good  
Magnitude 4.2 Temperature 45°  
Size 25.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Move North from M42. 8-10 Blue white stars of same magnitude above (N) of top sword stars. OC is loose but somewhat together.

## Observing Log

Object NGC 7789 Date 1-12-04 UTC/civil  
Right Ascension 23 57.0 Time 9:29 P UTC/std/ds  
Declination +56 44 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 6.7 Temperature 45°  
Size 15.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Faint glow underneath 3 dim field stars.

## Observing Log

Object NGC 663 Date 1-12-04 UTC/civil  
Right Ascension 01 46.8 Time 9:31 P UTC/std/ds  
Declination +61 15 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 7.1 Temperature 45°  
Size 16.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Small, round glow w/ 4 brighter stars  
on top of glow.

## Observing Log

Object M37 - NGC 2099 Date 1-12-04 UTC/civil  
Right Ascension 05 52.4 Time 9:15P UTC/std/ds  
Declination +32 33 Seeing: Transparency Good  
Constellation Aur Steadiness Good  
Magnitude 5.6 Temperature 45°  
Size 23.0 Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Large, dim glow. Round. Member stars easily seen.

## Observing Log

Object M31 - NGC 224 Date 1-12-04 UTC/civil  
Right Ascension 00 42.7 Time 9:21P UTC/std/ds  
Declination +41 16 Seeing: Transparency Good  
Constellation And Steadiness Good  
Magnitude 4.4 Temperature 45°  
Size 180' x 63' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Large, bright glow. Easy to see. Brighter nucleus & dims into halo. 12x80.

## Observing Log

Object M38 - NGC 1912 Date 1-12-04 UTC/civil  
Right Ascension 05 29.7 Time 9:15 UTC/std/ds  
Declination 35 50 Seeing: Transparency Good  
Constellation Aur Steadiness Good  
Magnitude 6.4 Temperature 45°  
Size 21.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Faint glow w/ some stars seen. 20x80

## Observing Log

Object M36 - NGC 1960 Date 1-12-04 UTC/civil  
Right Ascension 05 36.1 Time 9:10P UTC/std/ds  
Declination 34 05 Seeing: Transparency Good  
Constellation Aur Steadiness Good  
Magnitude 6.0 Temperature 45°  
Size 12.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Small, round glow. Stars easily seen. Brightest.  
M36, 37 & 38.



## Observing Log

Object N6C 457 Date 1-12-04 UTC/civil  
Right Ascension 01 19.1 Time 9:34P UTC/std/ds  
Declination 58 20 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 6.4 Temperature 45°  
Size 13.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

2 bright field stars bound  
this faint glow on the south.  
Some very faint stars seen on glow

## Observing Log

Object N6C 869 Date 1-12-04 UTC/civil  
Right Ascension — Time 9:45P UTC/std/ds  
Declination 57 09 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 5.3 Temperature 45°  
Size 29.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Small compact glow w/ 2 Brighter  
field stars on top of it. In same FOV  
as 884.

## Observing Log

Object N6C 884 Date 1-12-04 UTC/civil  
Right Ascension 02 22.4 Time 9:45 P UTC/std/ds  
Declination 57 07 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 6.1 Temperature 45°  
Size 29.0' Telescope 20x80  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

Bit fainter than 869. Just as small & compact as 869. 4-5 dim stars in top 1/4 glow of this oc.

## Observing Log

Object Gamma Andromeda Date 1-22-04 UTC/civil  
Right Ascension 02 03.9 Time 6:58 P UTC/std/ds  
Declination 42 20 Seeing: Transparency Good  
Constellation And Steadiness Good  
Magnitude 2.3, 5.5 Temperature 35°  
Size 9.8" Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

- faint companion. It was hard to see because one star was so bright. Both blue-white in color.

## Observing Log

Object M32 - NGC 221 Date 1-22-04 UTC/civil  
Right Ascension 00 42.7 Time 7:01 P UTC/std/ds  
Declination 40 52 Seeing: Transparency Good  
Constellation And Steadiness Good  
Magnitude 9.0 Temperature 35°  
Size 7.6' x 5.8' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Very small smudge of light w/ very bright, starlike nucleus.

## Observing Log

Object E Cassiopeia Date 1-22-04 UTC/civil  
Right Ascension 30 49.1 Time 7:06 P UTC/std/ds  
Declination 57 49 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 3.4, 7.5 Temperature 35°  
Size 12" Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

• Again, very faint companion at about 8 o'clock, overpowered by primary. Companion easy to see w/ Averted Vision. Both stars blue-white.

## Observing Log

Object Algol Date 1-22-04 UTC/civil  
Right Ascension 03 08.2 Time 7:08P UTC/std/ds  
Declination 40 57 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 2.1-3.4 Temperature 35°  
Size \_\_\_\_\_ Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Nice blue-white stars. Much dimmer than when I saw it the other night.

## Observing Log

Object Trapezium Date 1-22-04 UTC/civil  
Right Ascension 05 35.3 Time 7:09P UTC/std/ds  
Declination -05 23 Seeing: Transparency Good  
Constellation Ori Steadiness Good  
Magnitude 6.7, 7.9, 5.1, 6.7 Temperature 34°  
Size 8.8", 13", 21.5 Telescope 8" f/8  
Eyepiece/Magnification 85x, 168x  
Filters \_\_\_\_\_

### Notes:

All 4 stars easily see. I love looking at M42 anytime. At 168x, see a 5th star.

## Observing Log

Object Gamma Aries Date 1-22-04 UTC/civil  
Right Ascension 01 53.1 Time 7:15 P UTC/std/ds  
Declination 19 18 Seeing: Transparency Good  
Constellation Ari Steadiness Good  
Magnitude 4.8, 4.8 Temperature 34°  
Size 7.8" Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Two evenly bright, Blue white stars.  
Close together but easy to split w/  
black between them.

## Observing Log

Object Tr 2 Date 1-22-04 UTC/civil  
Right Ascension 02 37.3 Time 7:21 P UTC/std/ds  
Declination 55 59 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 5.9 Temperature Getting Colder  
Size 20.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

About 8, blue-white stars about 2x brighter than about 12  
much fainter stars. A loose, linear shaped association w/  
a red star right in the middle of it.

## Observing Log

Object NGC 752 Date 1-22-04 UTC/civil  
Right Ascension 01 57.8 Time 7:34 P UTC/std/ds  
Declination 37 41 Seeing: Transparency Good  
Constellation And Steadiness Good  
Magnitude 5.7 Temperature 30°  
Size 50.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Nicely fills FOV, with lots of stars in a star poor field. 50-60 stars of roughly the same magnitude w/ 1 much brighter just off center of cluster at 2 o'clock. All blue-white stars.

## Observing Log

Object Stock 2 Date 1-22-04 UTC/civil  
Right Ascension 02 15.0 Time 7:38 P UTC/std/ds  
Declination 59 16 Seeing: Transparency Good  
Constellation Car Steadiness Good  
Magnitude 4.4 Temperature 30°  
Size 60.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Much larger than NGC 752. 1 1/2 FOV in width. Basically circular. All blue-white stars. Approx 60 of a much brighter magnitude. Approx 20 more stars of much dimmer stars of 2 different magnitudes. Easy to spot because of density of stars in this OC. It was nice & very large, but very loose & roughly circular in shape. I used size to help me find the above 2 OCs.

## Observing Log

Object CR 463 Date 1-22-04 UTC/civil  
Right Ascension 01 48.4 Time 7:48P UTC/std/ds  
Declination 71 57 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 5.7 Temperature 29°  
Size 36.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:


20-30 off-white stars makeup this loose assoc. that has stars forming the shape at left. Main concentration of stars lie along 3 spokes. Almost fills FOV which is correct compared to FOV size of previous 2 observations. Easy to see in relatively star poor field.

## Observing Log

Object Stock 23 Date 1-22-04 UTC/civil  
Right Ascension 03 16.0 Time 8:06 UTC/std/ds  
Declination 60 02 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 6.2 Temperature 29°  
Size 15.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Also saw it in 7x35 binocs. Small, bright concentration of 6-8 stars.

85x 7 bright stars. 1 pair very close like a double star. These 7 of one magnitude w/approx 14 more of a much dimmer magnitude. Bit compact \*  in shape.

## Observing Log

Object Mel 20 Date 1-22-04 UTC/civil  
Right Ascension 03 22.0 Time 8:08 P UTC/std/ds  
Declination 49 00 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 1.2 Temperature \_\_\_\_\_  
Size 185' Telescope 7x35 binocls  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:


Large group of stars seen in 7x35. Mostly south of  $\alpha$  Per. Approx 8 much brighter & same magnitude & 15+ more much dimmer. Basically circular in shape.

## Observing Log

Object Tr 3 Date 1-22-04 UTC/civil  
Right Ascension 03 11.8 Time 8:30 P UTC/std/ds  
Declination 63 15 Seeing: Transparency Good  
Constellation Cas Steadiness Good  
Magnitude 7.0 Temperature 29°  
Size 23.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

Sky a bit softer than an hour ago

### Notes:

  
Roughly circular in shape except for some stars in this area

Approx 12 stars of same magnitude w/ 15+ stars much dimmer, yet easy to see.

Somewhat compact. Could see a glow in 7x35 binocs.



## Observing Log

Object NGC 1647 Date 1-22-04 UTC/civil  
Right Ascension 04 46.0 Time 8:44P UTC/std/ds  
Declination 19 04 Seeing: Transparency Good  
Constellation Tau Steadiness Good  
Magnitude 6.4 Temperature 29°  
Size 45.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

50+ stars seen. OC is dim, yet stars stand out easily. Circular in shape. It was easy to spot in a star poor field.

## Observing Log

Object NGC 1342 Date 1-22-04 UTC/civil  
Right Ascension 03 31.6 Time 8:49P UTC/std/ds  
Declination 37 20 Seeing: Transparency Good  
Constellation Per Steadiness Good  
Magnitude 6.7 Temperature \_\_\_\_\_  
Size 14.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:


  
Shape.

15 blue-white stars much brighter than 20 more much dimmer stars. Small. Compact. Again, this stands out in a star poor area.

# Observing Log

Object NGC 1807 Date 1-22-04 UTC/civil  
 Right Ascension 05 10.7 Time 8:59P UTC/std/ds  
 Declination 16 32 Seeing: Transparency \_\_\_\_\_  
 Constellation Tau Steadiness \_\_\_\_\_  
 Magnitude 7.0 Temperature Getting much colder  
 Size 17.0' Telescope 8" f/8  
 Eyepiece/Magnification 85x  
 Filters \_\_\_\_\_

## Notes:


 16 stars of same magnitude  
 in an X shape.

definite  
 separation  
 btw. these  
 two. Both  
 in same FOV

# Observing Log

Object NGC 1817 Date 1-22-04 UTC/civil  
 Right Ascension 05 21.1 Time 8:59P UTC/std/ds  
 Declination 16 42 Seeing: Transparency Good  
 Constellation Tau Steadiness Good  
 Magnitude 7.7 Temperature \_\_\_\_\_  
 Size 15.0' Telescope 8" f/8  
 Eyepiece/Magnification 85x  
 Filters \_\_\_\_\_

## Notes:



Circular glow w/ 4 brighter  
 stars on left side. Could  
 see lots of very faint stars  
 on top of glow.

## Observing Log

Object M35 - NGC 2168 Date 1-22-04 UTC/civil  
Right Ascension 06 05.9 Time 9:02 P UTC/std/ds  
Declination 24 20 Seeing: Transparency Good  
Constellation Gem Steadiness Good  
Magnitude 5.1 Temperature Cold!!  
Size 28.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_


### Notes:

After all the previous, faint OC seen tonight,  
This one is big, bright, tons of stars &  
circular in shape. Nicely fills FOV.

## Observing Log

Object NGC 2169 Date 1-22-04 UTC/civil  
Right Ascension 06 06.4 Time 9:08 P UTC/std/ds  
Declination 13 57 Seeing: Transparency Good  
Constellation Ori Steadiness Good  
Magnitude 5.9 Temperature \_\_\_\_\_  
Size 6.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_


### Notes:

  
Small, tight grouping of approx  
13 blue-white stars of 2  
magnitudes

## Observing Log

Object NGC 2281 Date 1-22-04 UTC/civil  
Right Ascension 06 49.3 Time 9:12 P UTC/std/ds  
Declination 41 04 Seeing: Transparency Good  
Constellation Aur Steadiness Good  
Magnitude 5.4 Temperature \_\_\_\_\_  
Size 14.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

12 brighter stars on this end  
  
Approx 15 fainter ones on this end

Small, compact w/ 12 blue white brighter stars on left side & approx 15 bit dimmer stars on right side. Stars out in this area for rest of stars in this area of sky are not as dense.

## Observing Log

Object NGC 2264 Date 3-7-04 UTC/civil  
Right Ascension 06 41.1 Time 7:25P UTC/std/ds  
Declination 09 53 Seeing: Transparency OK  
Constellation Mon Steadiness Good  
Magnitude 3.9 Temperature 35°  
Size 20.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:


25-30 blue-white stars with a (relative) extremely bright field star to the northern end. Approx 3 magnitudes of stars with most easy to see and the same magnitude. Very Loose. Most of OC south of the bright field star.

# Observing Log

Object N6C 2244 Date 3-7-04 UTC/civil  
Right Ascension 06 32.4 Time 7:29 PM UTC/std/ds  
Declination 04 52 Seeing: Transparency OK  
Constellation Mon Steadiness Good  
Magnitude 4.8 Temperature 35°  
Size 23.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

## Notes:

Seen as a faint glow of stars w/7x35 binocs. 3-4 brighter stars about glow of OC.  
32mm - 10-15 stars in a rectangular box shape.

 Brightest  
of all

# Observing Log

Object N6C 2232 Date 3-7-04 UTC/civil  
Right Ascension 06 26.6 Time 7:40 PM UTC/std/ds  
Declination -04 45 Seeing: Transparency OK  
Constellation Mon Steadiness Good  
Magnitude 3.9 Temperature 35°  
Size 29.0 Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

## Notes:

Sky glow to south can barely see stars on MON w/o adverted vision. 32mm-approx 16 stars that are very bright blue-white and stand out in a very dim star poor area of the sky. There is a field star on the east side of this very loose association of stars.

# Observing Log

Object  $\beta$  Mon Date 3-7-04 UTC/civil  
Right Ascension 06 28.8 Time 7:44 PM UTC/std/ds  
Declination -07 02 Seeing: Transparency OK  
Constellation Mon Steadiness Good  
Magnitude 4.7, 5.2 Temperature 35°  
Size 7.3" Telescope 8" f/8  
Eyepiece/Magnification 85x, 168x  
Filters \_\_\_\_\_

## Notes:

With 32mm, can see 2 equally bright blue-white stars that are very close together but easy to split. 19mm-VERY easy to split now. Can see nice black sky between the 2 stars. There is a nice separation now.

# Observing Log

Object NGC 2301 Date 3-7-04 UTC/civil  
Right Ascension 06 51.8 Time 7:50 PM UTC/std/ds  
Declination 00 28 Seeing: Transparency Fair  
Constellation Mon Steadiness Good  
Magnitude 6.0 Temperature 35°  
Size 12.0' Telescope 8" f/8  
Eyepiece/Magnification 7x35, 168x  
Filters \_\_\_\_\_

## Notes:

Can see it in 7x35 binocs. 19mm gives best view. A very loose cluster. 5 very bright (relatively) blue-white stars in the area with 25-30 very faint stars grouped into 2 groups.



## Observing Log

Object M50 - NGC 2323 Date 3-7-04 UTC/civil  
Right Ascension 07 03.2 Time 8:06 PM UTC/std/ds  
Declination -08 20 Seeing: Transparency Fair  
Constellation Mon Steadiness Good  
Magnitude 5.9 Temperature 35°  
Size 16.0' Telescope 8" f/8  
Eyepiece/Magnification 7x35, 85x  
Filters \_\_\_\_\_

### Notes:

25-30 stars seen in a very loose assoc. Fills over 1/2 field of view in 32mm. Can see this with 7x35 binocs. This cluster was hard to star hop to for sky glow is bright in the south and these stars barely stand out.

## Observing Log

Object M41 - NGC 2287 Date 3-7-04 UTC/civil  
Right Ascension 06 46.1 Time 8:09 PM UTC/std/ds  
Declination -20 46 Seeing: Transparency Fair  
Constellation CMa Steadiness Good  
Magnitude 4.5 Temperature 35°  
Size 38.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

40+ stars of approx 3 magnitudes stands out nicely in 32mm eyepiece in this star poor area of the sky. Fills center of field of view nicely. Most of OC is loose yet is more compact than those previously seen tonight.

## Observing Log

Object NGC 2392 Date 3-7-04 UTC/civil  
Right Ascension 07 29.2 Time 8:14 PM UTC/std/ds  
Declination 20 55 Seeing: Transparency Fair  
Constellation Gem Steadiness Good  
Magnitude 9.2 Temperature 35°  
Size 47" x 43" Telescope 8" f/8  
Eyepiece/Magnification 10 mm  
Filters \_\_\_\_\_

### Notes:

With the 10mm eyepiece, this was easy to see. Can see central stars easily embedded in a small, circular glow.

## Observing Log

Object NGC 2539 Date 3-7-04 UTC/civil  
Right Ascension 08 10.7 Time 8:25 PM UTC/std/ds  
Declination -12 50 Seeing: Transparency Fair  
Constellation Pup Steadiness Good  
Magnitude 6.5 Temperature 35°  
Size 21.0 Telescope 8" f/8  
Eyepiece/Magnification 7x35, 168x  
Filters \_\_\_\_\_

### Notes:

Could see this in the 7x35 binocs and took some time to find with the telescope. The moon is up now but I didn't realize this for about another half an hour. I found 20+ stars of approx 3-4 magnitudes. Stars very blue-white and bright as compared to stars in this part of the sky. Oval in shape yet still loose, is about 1/2 FOV in size. There is a nice double right in the middle. These are very close yet easy to split. Both of these stars of same magnitude. One star to east of OC is much brighter than rest and stands alone in magnitude.



## Observing Log

Object M48 - NGC 2548 Date 3-7-04 UTC/civil  
Right Ascension 08 13.8 Time 8:33 PM UTC/std/ds  
Declination -05 48 Seeing: Transparency Fair  
Constellation Hya Steadiness Good  
Magnitude 5.8 Temperature 35°  
Size 54.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

50-60+ stars. Fills field of view nicely in 32mm eyepiece. Very loose but center is more compact.

## Observing Log

Object M44 - NGC 2632 Date 3-7-04 UTC/civil  
Right Ascension 08 40.1 Time 8:35 PM UTC/std/ds  
Declination 19 59 Seeing: Transparency Fair  
Constellation Cnc Steadiness Good  
Magnitude 3.1 Temperature 35°  
Size 95.0' Telescope 7x35, 8" f/8  
Eyepiece/Magnification 7x, 85x  
Filters \_\_\_\_\_

### Notes:

In 7x35 easy to see many blue-white stars in a circular shaped OC. With 32mm eyepiece, this is very nice. Many blue-white stars seen of approx 4 different magnitudes. Stars all over FOV in this one.

## Observing Log

Object M67 - NGC 2682 Date 3-7-04 UTC/civil  
Right Ascension 08 50.4 Time 8:50 PM UTC/std/ds  
Declination 11 49 Seeing: Transparency Fair  
Constellation Cnc Steadiness Good  
Magnitude 6.9 Temperature 35°  
Size 29.0' Telescope 8" f/8  
Eyepiece/Magnification 85x, 168x  
Filters \_\_\_\_\_

### Notes:

32mm-Very small, dim and compact. Very bright field star at western edge. All stars of this OC are very faint.

19mm- Easier to see. 2-3 magnitude of stars makeup this OC. 20 or so stars of approx same magnitude.

## Observing Log

Object  $\gamma$  Leo Date 3-7-04 UTC/civil  
Right Ascension 10 20.1 Time 8:55 PM UTC/std/ds  
Declination 19 51 Seeing: Transparency Fair  
Constellation Leo Steadiness Good  
Magnitude 2.2, 3.5 Temperature 35°  
Size 4.4" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

These are very close together. Lower left star is a hare brighter than upper right. Can split them with the 19mm eyepiece.

## Observing Log

Object Mizar Date 3-7-04 UTC/civil  
Right Ascension 13 23.9 Time 9:07 PM UTC/std/ds  
Declination 54 56 Seeing: Transparency Fair  
Constellation Uma Steadiness Good  
Magnitude 2.3, 4.0, 4.0 Temperature 35°  
Size 14.4", 7.09" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

2 stars of same magnitude & other just a bit fainter. Fills FOV nicely.

## Observing Log

Object M77 - NGC 1068 Date 3-8-04 UTC/civil  
Right Ascension 02 42.7 Time 7:05 PM UTC/std/ds  
Declination -60 01 Seeing: Transparency Good  
Constellation Cet Steadiness Great  
Magnitude 8.8 Temperature 54°  
Size 6.9" x 5.9" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Found it @ 6:59 PM. Then darker @ 7:05 PM. There is a field star ← just to the North. Small, bright starlike nucleus centered in a dim, round halo. Looks a bit like a tiny comet.  
7:21 PM - one last look. Easy to find for it stands out nicely. looks circular. nucleus is still bright & may not be as starlike as I saw earlier. Need averted vision to see this well.

## Observing Log

Object M81 - NGC 3031 Date 3-8-04 UTC/civil  
Right Ascension 09 55.6 Time 7:14 PM UTC/std/ds  
Declination 69 04 Seeing: Transparency Good  
Constellation UMa Steadiness Great  
Magnitude 6.8 Temperature 54°  
Size 26' x 14' Telescope 8" f/8  
Eyepiece/Magnification 16x  
Filters \_\_\_\_\_

### Notes:

In same FOV as M82 and much brighter than M82.  
Oval in shape. Easy to see nucleus is brighter than  
halo. Halo quite large & extended.

## Observing Log

Object M82 - NGC 3034 Date 3-8-04 UTC/civil  
Right Ascension 09 55.8 Time 7:14 PM UTC/std/ds  
Declination +69 41 Seeing: Transparency Good  
Constellation UMa Steadiness Great  
Magnitude 8.4 Temperature 54°  
Size 11' x 4.6' Telescope 8" f/8  
Eyepiece/Magnification 16x  
Filters \_\_\_\_\_

### Notes:

Relatively bright sliver (cigar shaped) of light w/ have  
brighter in center region. Almost see dust lanes in this  
one. Can feel center region different than edges.

Both quite nice in same FOV.

## Observing Log

Object NGC 3242 Date 3/30/04 UTC/civil  
Right Ascension 10 24.8 Time 8:36 PM UTC/std/ds  
Declination -18 38 Seeing: Transparency Good  
Constellation Hydra Steadiness Good  
Magnitude 7.8 Temperature 50°  
Size 45" x 36" Telescope 8" f/8 Newtonian  
Eyepiece/Magnification 19mm / 82x  
Filters None

### Notes:

Small, round blue fuzz ball. Looks like out of focus star. Stands right out in field of view.

## Observing Log

Object Mel III Date 4/18/04 UTC/civil  
Right Ascension 12 25.0 Time 8:48 P UTC/std/ds  
Declination +26 60 Seeing: Transparency Good  
Constellation Com Steadiness OK  
Magnitude 1.8 Temperature 53°  
Size 275' Telescope 7x35 Binocs  
Eyepiece/Magnification 7x  
Filters None

### Notes:

15-20 Blue white stars form a pyramid shaped Open Cluster. Easy to see in 7x35s. Nicely Fills field of view

## Observing Log

Object M87 (NGC 4486) Date 4/18/04 UTC/civil  
Right Ascension 12 30.8 Time 9:03 P UTC/std/ds  
Declination +12 24 Seeing: Transparency Good  
Constellation Virgo Steadiness OK  
Magnitude 8.6 Temperature 53°  
Size 7.2' x 6.8' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

Small, dim fuzzy circle of light. Can tell it has a haze brighter nucleus. Easy to see.

## Observing Log

Object M86 (NGC 4406) Date 4/18/04 UTC/civil  
Right Ascension 12 26.2 Time 9:03 P UTC/std/ds  
Declination +12 57 Seeing: Transparency Good  
Constellation Virgo Steadiness OK  
Magnitude 9.8 Temperature 53°  
Size 8.9' x 5.8' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

In same field of view as M84.  $\pm 2$  Fovs from M87.

M86 is a haze bigger & brighter than M84.

Small, dim, fuzzy patch of light w/ brighter nucleus that is starlike in center of nucleus glow. Easy to see.

## Observing Log

Object M84 (NGC 4374) Date 4/18/04 UTC/civil  
Right Ascension 12 25.1 Time 9:03P UTC/std/ds  
Declination +12 53 Seeing: Transparency Good  
Constellation Virgo Steadiness OK  
Magnitude 10.1 Temperature 53°  
Size 6.5' x 5.6' Telescope 8" F/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

M84 is a haze smaller & dimmer than M86.  
Small, dim fuzzy patch of light w/ brighter  
nucleus that is starlike in center of nucleus  
glow.  
Easy to see.

## Observing Log

Object M64 (NGC 4826) Date 4/18/04 UTC/civil  
Right Ascension 12 56.7 Time 9:13P UTC/std/ds  
Declination +21 41 Seeing: Transparency Good  
Constellation Com Steadiness OK  
Magnitude 8.5 Temperature 53°  
Size 9.3' x 5.4' Telescope 8" F/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

Small, round dim glow. Bit larger than M86/M84.  
Has a haze brighter nucleus w/ starlike point of  
light seen at center of nucleus every once in  
a while.

## Observing Log

Object M3 (NGC 5272) Date 4/18/04 UTC/civil  
Right Ascension 13 42.2 Time 9:18 P UTC/std/ds  
Declination +29 23 Seeing: Transparency Good  
Constellation CVn Steadiness OK  
Magnitude 5.9 Temperature 53°  
Size 16.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

Large, bright, very easy to spot. Big, bright nucleus, dims quickly into large halo area.  
Member star speckles seen.

## Observing Log

Object M94 (NGC 4736) Date 4/18/04 UTC/civil  
Right Ascension 12 50.9 Time 9:21 P UTC/std/ds  
Declination +41 07 Seeing: Transparency Good  
Constellation CVn Steadiness OK  
Magnitude 8.1 Temperature 53°  
Size 11' x 9.1' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

Bright. Easy to see. Large, bright nucleus w/ small amount of a dim, circular halo seen. Most of what you can see is nucleus w/ hint of halo surrounding this nucleus glow



## Observing Log

Object NGC 6121 (M4) Date 7/21/04 UTC/civil  
Right Ascension 16<sup>h</sup> 23.6' Time 9:23 P UTC/std/ds  
Declination -26° 32' Seeing: Transparency Good  
Constellation Scor Steadiness Good  
Magnitude 5.8 Temperature 85°  
Size 26.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Small, faint glow w/area of glow full of very faint member stars. Its easy to see though. 5-8 little brighter field stars scattered an glow. w/AV, can feel nucleus is a little brighter  
@10:14P - darker so its easier to see. Now you can feel its quite large, yet still very dim.

## Observing Log

Object  $\beta$  Scorpius Date 7/21/04 UTC/civil  
Right Ascension 16<sup>h</sup> 5.4' Time 9:08 P UTC/std/ds  
Declination -19° 48' Seeing: Transparency Good  
Constellation Scorpio Steadiness Good  
Magnitude 2.6, 4.9 Temperature 85°  
Size 13.6" Separation Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

2 Blue white stars, easily separated. The upper one is 1.4x the size of the lower one. There is a good separation between them & both stand right out in FOV.

## Observing Log

Object M104 Date 4/18/04 UTC/civil  
Right Ascension 12 40.0 Time 9:32 P UTC/std/ds  
Declination -11 37 Seeing: Transparency Good  
Constellation Virgo Steadiness OK  
Magnitude 8.3 Temperature 53°  
Size 8.9 x 4.1 Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters None

### Notes:

Small, oval (cigar) shaped dim sliver of light w/ tiny, brighter nucleus centered on oval glow.

## Observing Log

Object NGC 5904 (M5) Date 7/21/04 UTC/civil  
Right Ascension 15<sup>h</sup> 18.6' Time 9:29 UTC/std/ds  
Declination +2° S' Seeing: Transparency Good  
Constellation Ser Steadiness Good  
Magnitude 5.7 Temperature 85°  
Size 17.4' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Much brighter than M4. A small dense glow, with nucleus much brighter than halo area. Member stars easily seen. Whole object stands right out. Nucleus is tiny & bright & dims evenly from there into halo. Tons of member stars easily seen.

## Observing Log

Object NGC 6254 (M10) Date 7/21/04 UTC/civil  
Right Ascension 16<sup>h</sup> 57.1' Time 9:34 P UTC/std/ds  
Declination -4° 6' Seeing: Transparency Good  
Constellation Oph Steadiness Good  
Magnitude 6.6 Temperature 85°  
Size 15.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Dimmer than M5 but brighter than M4. Uniformly lit nucleus. Much looser than M5. Nucleus not prominent, but member stars easily seen. Halo is a bit extended around uniformly lit nucleus.

## Observing Log

Object NGC 6218 (M12) Date 7/21/04 UTC/civil  
Right Ascension 16<sup>h</sup> 47.2' Time 9:39 P UTC/std/ds  
Declination -1° 57' Seeing: Transparency Good  
Constellation Oph Steadiness Good  
Magnitude 6.8 Temperature 85°  
Size 15.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Dim, like M4. Small, round glow w/ hints of a small, more brighter nucleus. Approx 8 bright field stars sit distributed on glow. No member stars seen. Glow stands out in FOV like the glow of a comet.

## Observing Log

Object IC 4665 Date 7/21/04 UTC/civil  
Right Ascension 17<sup>h</sup> 46.3' Time 9:46 P UTC/std/ds  
Declination +5° 43' Seeing: Transparency Good  
Constellation Oph Steadiness Good  
Magnitude 4.2 Temperature 85°  
Size 70.0' Telescope 8" f/8  
Eyepiece/Magnification 86x  
Filters \_\_\_\_\_

### Notes:

Several bright, blue white stars all over 32mm FOV.  
32-38 stars of approx 3 magnitudes fill  $\approx 1/4$  FOV.  
In central heart of OC in FOV, 31 of these stars  
alone. Rest are to E side of FOV. This OC stands  
right out in star poor area of sky.

## Observing Log

Object NGC 6266 (M62) Date 7/21/04 UTC/civil  
Right Ascension 17<sup>h</sup> 1.2' Time 9:51 P UTC/std/ds  
Declination -30° 7' Seeing: Transparency Good  
Constellation Oph Steadiness Good  
Magnitude 6.7 Temperature 85°  
Size 14.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Easy to see. Have brighter nucleus & small,  
round, dim halo. No member stars seen.

## Observing Log

Object NGC 6210 Date 7/21/04 UTC/civil  
Right Ascension 16<sup>h</sup> 44.5' Time 10:06 P UTC/std/ds  
Declination +23° 49' Seeing: Transparency Good  
Constellation Her Steadiness Good  
Magnitude 8.8 Temperature 85°  
Size 48" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Very tiny, like out of focus star, yet very blue green in color compared to other blue white field stars in FOV. Has a star-like nucleus in center of a tiny, blue-green glow.

## Observing Log

Object NGC 6475 (M7) Date 7/21/04 UTC/civil  
Right Ascension 17<sup>h</sup> 53.9' Time 10:10 P UTC/std/ds  
Declination -34° 49' Seeing: Transparency Good  
Constellation  Sco Steadiness Good  
Magnitude 3.3 Temperature 85°  
Size 80.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Approx 60 bright, blue white stars of approx 3 different magnitudes, completely fills FOV of 19mm EP. Very open & loose & easy to see in this star poor area of my urban sky to the south.

## Observing Log

Object N6C 6405 (M6) Date 7/21/04 UTC/civil  
Right Ascension 17<sup>h</sup> 40.1' Time 10:16 P UTC/std/ds  
Declination -32° 13' Seeing: Transparency Good  
Constellation Sco Steadiness Good  
Magnitude 4.2 Temperature 85°  
Size 33.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_


### Notes:

Much smaller than M7. 60-70 stars nicely fills center of FOV. Roughly circular, flat on 1 side, in shape, but loose. 1 very bright field star on W side. Approx 4 different magnitudes makeup this OC w/ 4th set of mags very dim yet easy to see. Approx 1/2 FOV in diameter

## Observing Log

Object N6C 6520 Date 7/21/04 UTC/civil  
Right Ascension 18<sup>h</sup> 3.4' Time 10:21 P UTC/std/ds  
Declination -27° 54' Seeing: Transparency \_\_\_\_\_  
Constellation Sgr Steadiness \_\_\_\_\_  
Magnitude 7.6 Temperature \_\_\_\_\_  
Size 6.0' Telescope \_\_\_\_\_  
Eyepiece/Magnification \_\_\_\_\_  
Filters \_\_\_\_\_

### Notes:

 6 Field stars bound this glow that my eye is drawn to in FOV. Its small & glow is very dim, yet there.

## Observing Log

Object N6C 6523 (M8) Date 7/21/04 UTC/civil  
Right Ascension 18<sup>h</sup> 3.8' Time 10:27 P UTC/std/ds  
Declination -24° 23' Seeing: Transparency Good  
Constellation Sgr Steadiness Good  
Magnitude 5.0 Temperature 85°  
Size 90' x 40' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Nice glow. Easy to see. Small, w/ 2 field stars on glow. In same FOV is a small, tight OC of approx 20 blue white stars, all of about the same magnitude. Right next to M8.

## Observing Log

Object N6C 6656 (M22) Date 7/21/04 UTC/civil  
Right Ascension 18<sup>h</sup> 36.4' Time 10:30 P UTC/std/ds  
Declination -23° 54' Seeing: Transparency Good  
Constellation Sgr Steadiness Good  
Magnitude 5.1 Temperature 85°  
Size 24.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Large, round, uniformly lit nucleus. Easy to see. Many member stars seen but overall a rather dim object.

## Observing Log

Object NGC 6705 (M11) Date 7/21/04 UTC/civil  
Right Ascension 18<sup>h</sup> 51.1' Time 10:36 P UTC/std/ds  
Declination -6° 16' Seeing: Transparency Good  
Constellation ScT Steadiness Good  
Magnitude 5.8 Temperature 85°  
Size 13.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Small, tight group of dim, yet easy to see individual stars. Too many to count w/ 1 very bright field star in center of cluster.

## Observing Log

Object γ Delphinus Date 7/21/04 UTC/civil  
Right Ascension 20<sup>h</sup> 46.7' Time 10:41 P UTC/std/ds  
Declination +16° 07' Seeing: Transparency Good  
Constellation Del Steadiness Good  
Magnitude 4.5, 5.5 Temperature 85°  
Size 9.6" sep. Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

2 Blue-white stars. One on right is just a bit brighter. Very close yet easy to separate.



## Observing Log

Object NGC 6709 Date 7/21/04 UTC/civil  
Right Ascension 18<sup>h</sup> 51.5' Time 10:45 P UTC/std/ds  
Declination +10° 21' Seeing: Transparency Good  
Constellation Aql Steadiness Good  
Magnitude 6.7 Temperature 85°  
Size 13.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Small & somewhat compact. Approx 20-30  
Blue White stars of approx 3 different  
magnitudes. It is dim overall yet is a  
higher concentration of stars in this area  
of the sky.

## Observing Log

Object Delta Cepheus Date 8-4-04 UTC/civil  
Right Ascension 22<sup>h</sup> 29.2m Time 10:20 P UTC/std/ds  
Declination +58° 25' Seeing: Transparency Good  
Constellation Cepheus Steadiness Good  
Magnitude 3.9, 6.3 Temperature 72°  
Size 41" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

A dimmer version of Alberio. A pretty blue  
& gold double star nicely separated, with  
the yellow star much brighter than the  
blue.

## Observing Log

Object NGC 7160 Date 8-4-04 UTC/civil  
Right Ascension 21<sup>h</sup> 53.7' Time 10:28 P UTC/std/ds  
Declination +62° 36' Seeing: Transparency Good  
Constellation Cep Steadiness Good  
Magnitude 6.1 Temperature 72°  
Size 7.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

About 7 stars make up this guy with  
2 of 7 really bright. Seen in 7x35 binocs  
as fuzzy area but can see stars.

## Observing Log

Object NGC 6910 Date 8-4-04 UTC/civil  
Right Ascension 20<sup>h</sup> 23.1' Time 10:33 P UTC/std/ds  
Declination +40° 47' Seeing: Transparency Good  
Constellation Cyg Steadiness Good  
Magnitude 7.4 Temperature 72°  
Size 7.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

8-10 stars of same magnitude are situated  
to the west of 2 much brighter stars & are  
between these stars

## Observing Log

Object N6C 6940 Date 8-4-04 UTC/civil  
Right Ascension 20<sup>h</sup> 34.6' Time 10:39 P UTC/std/ds  
Declination 28° 18' Seeing: Transparency Good  
Constellation Vul Steadiness Good  
Magnitude 6.3 Temperature 72°  
Size 31.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Lots of stars seen in roughly a circular shape. Several magnitudes of stars seen. Its easy to tell this is the OC because star density drops off quickly if you sweep the scope a bit off of it. Nicely fill FOV.  
Very nice.

## Observing Log

Object N6C 6853 (M27) Date 8-4-04 UTC/civil  
Right Ascension 19<sup>h</sup> 59.6' Time 10:50 P UTC/std/ds  
Declination 22° 43' Seeing: Transparency Good  
Constellation Vul Steadiness Good  
Magnitude 7.3 Temperature 72°  
Size 8' x 5.7' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Bright. Bow tie glow. Easy to see

## Observing Log

Object IC 4756 Date 8-4-04 UTC/civil  
Right Ascension 18<sup>h</sup> 39.0' Time 11:00 P UTC/std/ds  
Declination +5° 27' Seeing: Transparency Good  
Constellation Ser Steadiness Good  
Magnitude 4.6 Temperature 72°  
Size 40.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

Roughly circular in shape. Overwhelms 32 mm FOV.  
Several blue-white stars of about same magnitude  
makeup this loose OC.

## Observing Log

Object NGC 6633 Date 8-4-04 UTC/civil  
Right Ascension 18<sup>h</sup> 27.7' Time 11:06 P UTC/std/ds  
Declination 6° 34' Seeing: Transparency Good  
Constellation Oph Steadiness Good  
Magnitude 4.6 Temperature 72°  
Size 20.0' Telescope 8" f/8  
Eyepiece/Magnification 85x  
Filters \_\_\_\_\_

### Notes:

32mm - 30-40 blue-white stars are box in shape. stretches  
side to side in FOV & not quite as much up & down.  
Stars of 2-3 different magnitudes with 1 really  
bright star at top edge of OC. Somewhat  
compact. Goes from 10 o'clock to 4 o'clock  
on long side of box.

## Observing Log

Object N6C 6818 Date 8-4-04 UTC/civil  
Right Ascension 19<sup>h</sup> 44.0' Time 11:21 P UTC/std/ds  
Declination -14° 9' Seeing: Transparency Good  
Constellation Sgr Steadiness Good  
Magnitude 9.3 Temperature 72°  
Size 22" x 15" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Small. Round. Dim. Looks like out of focus star w/ other stars in FOV in focus. This guy stands right out.

## Observing Log

Object N6C 6826 Date 8-5-04 UTC/civil  
Right Ascension 19<sup>h</sup> 44.8' Time 9:29P UTC/std/ds  
Declination 50° 31' Seeing: Transparency Good  
Constellation Cyg Steadiness Good  
Magnitude 8.8 Temperature 65°  
Size 27" x 24" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Tiny. Round, blue-green halo around a stellar center. Easily seen. Again, stars in FOV are points while this thing is fuzzy. w/AV. it is easier to see. Larger & brighter than by looking directly at it.

## Observing Log

Object NGC 6618 (M17) Date 8-5-04 UTC/civil  
Right Ascension 18<sup>h</sup> 20.8' Time 9:42 P UTC/std/ds  
Declination -16° 11' Seeing: Transparency Good  
Constellation Sgr Steadiness Good  
Magnitude 6.0 Temperature 65°  
Size 11.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Fairly large & easy to see. It appears long on one axis & maybe oval in shape. Dim in FOV yet easy to see. There is a hint of gas (a glow) above & below this long axis.

There are many stars below it. Might be an OC there.

## Observing Log

Object Cr 399 Date 8-5-04 UTC/civil  
Right Ascension 19<sup>h</sup> 25.4' Time 9:53 P UTC/std/ds  
Declination 20° 11' Seeing: Transparency Good  
Constellation Vul Steadiness Good  
Magnitude 3.6 Temperature 65°  
Size 60.0' Telescope 8" f/8  
Eyepiece/Magnification 168x - 85x  
Filters \_\_\_\_\_

### Notes:

19mm - Several bright blue-white stars makeup this OC.

Very loose. One set forms a teapot shape.

32mm - 12 bright stars w/a 2nd level of magnitude of

± 15-20 more stars.

## Observing Log

Object N6C 6934 Date 8-5-04 UTC/civil  
Right Ascension 20<sup>h</sup> 34.2' Time 10:01 P UTC/std/ds  
Declination 7° 24' Seeing: Transparency Good  
Constellation Del Steadiness Good  
Magnitude 8.7 Temperature 65°  
Size 5.9' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Small, dim, round glow just next to a much brighter field star. Fairly faint. Its uniformly lit.

## Observing Log

Object N6C 7078 (M15) Date 8-5-04 UTC/civil  
Right Ascension 21<sup>h</sup> 30' Time 10:09 P UTC/std/ds  
Declination 12° 10' Seeing: Transparency Good  
Constellation Peg Steadiness Good  
Magnitude 6.0 Temperature 65°  
Size 12.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Large, round glow w/ bright small nucleus and a large extended halo area. Can almost make out member stars. Halo is textured, not a constant glow.

## Observing Log

Object NGC 7089 (M2) Date 8-5-04 UTC/civil  
Right Ascension 21<sup>h</sup> 33.5' Time 10:20 PM UTC/std/ds  
Declination -00° 49' Seeing: Transparency Good  
Constellation Aqr Steadiness Good  
Magnitude 6.4 Temperature 65°  
Size 13.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Larger than M15. Nucleus is large & uniformly lit. Dims into extended halo w/many member stars seen.

## Observing Log

Object NGC 7092 (M39) Date 8-5-04 UTC/civil  
Right Ascension 21<sup>h</sup> 32.2' Time 10:30 PM UTC/std/ds  
Declination +48° 26' Seeing: Transparency Good  
Constellation Cyg Steadiness Good  
Magnitude 4.6 Temperature 65°  
Size 31.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

20-25 Bright blue-white stars of 2 magnitudes. 2nd just a bit dimmer. Fills 1/2 FOV of 19mm. Very loose. These are the brightest stars in this area of the sky.



## Observing Log

Object NGC 7243 Date 8-5-04 UTC/civil  
Right Ascension 22<sup>h</sup> 15.3' Time 10:45 PM UTC/std/ds  
Declination 49° 53' Seeing: Transparency Good  
Constellation Lac Steadiness Good  
Magnitude 6.4 Temperature 75°  
Size 21.0' Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Very loose. 20-30 stars of approx same magnitude makeup this OC. Fills approx 1/2 FOV in width. These stars in FOV differ from area field stars because they are tighter together & of approx same magnitude.

## Observing Log

Object NGC 7209 Date 8-5-04 UTC/civil  
Right Ascension \_\_\_\_\_ Time 10:51 P UTC/std/ds  
Declination \_\_\_\_\_ Seeing: Transparency Good  
Constellation \_\_\_\_\_ Steadiness Good  
Magnitude \_\_\_\_\_ Temperature 65°  
Size \_\_\_\_\_ Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters \_\_\_\_\_

### Notes:

Smaller & tighter than 7243. Approx 40 stars of 2 to 3 magnitudes makeup this OC. No shape but nicely fills center of FOV.

## Observing Log

Object NGC 7009 Date 9-5-04 UTC/civil  
Right Ascension 21<sup>h</sup> 4.2' Time 9:19 PM UTC/std/ds  
Declination -11° 22' Seeing: Transparency OK  
Constellation Aqr Steadiness Good  
Magnitude 8.0 Temperature 65°  
Size 44" x 23" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters OTI used

### Notes:

Small, fuzzy ball. Blueish in color. Much larger than stars in area. O3 filter shows bright fuzzy ball. Its a lot brighter than anything else in FOV. Central star often seen w/Adverted Version, as a point in middle of fuzzy glow.

## Observing Log

Object NGC 7662 Date 9-5-04 UTC/civil  
Right Ascension 23<sup>h</sup> 25.9' Time 9:33 PM UTC/std/ds  
Declination 42° 33' Seeing: Transparency OK  
Constellation And Steadiness Good  
Magnitude 8.3 Temperature 65°  
Size 32" x 28" Telescope 8" f/8  
Eyepiece/Magnification 168x  
Filters OTI used

### Notes:

Easier to see than 7009, maybe just a bit brighter. Small fuzzy ball. This one is definitely Blue-green in color. Here smaller than 7009. O3 shows no better view. Sometimes see central point of light in middle of glow.

9:40 PM Went back to 7009 to compare. Both very similar yet I think 7662 was brighter.