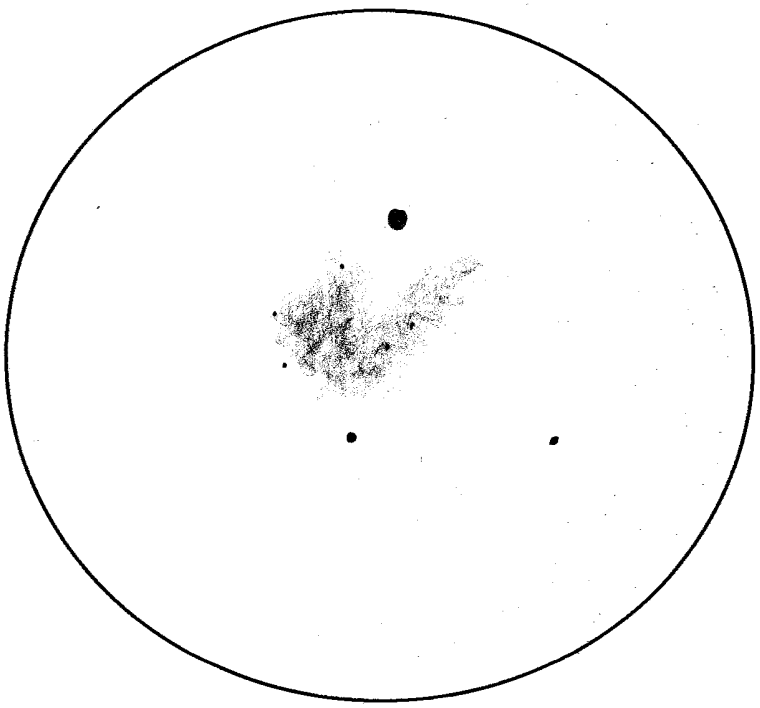
CFN #2

DATE 7/23/3 **TIME** 11:15 CST (CDT) **CLARITY** (I) II III IV V =5 **SEEING** (I) II III IV V =10

INSTRUMENT ETX-125 10x50 (EYE) **POWER** 10X 73X 153X 475X

OBJECT NGC 7000 **LOCATION** (RMCC) HOME _____



Easily seen – not sure of shape & very hard to draw its subtle glow in eye.

Object Name: NGC 7000
Constellation: Cyg
R.A./Dec:

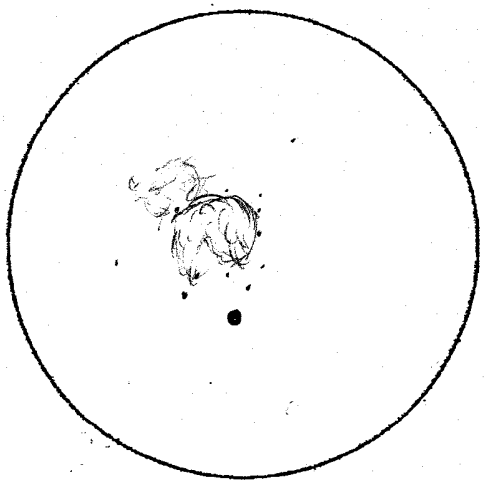
OBSERVATION LOG

Name: BY
Date: 9/20/13
Time: 12:10 CDT
Site: RMCC

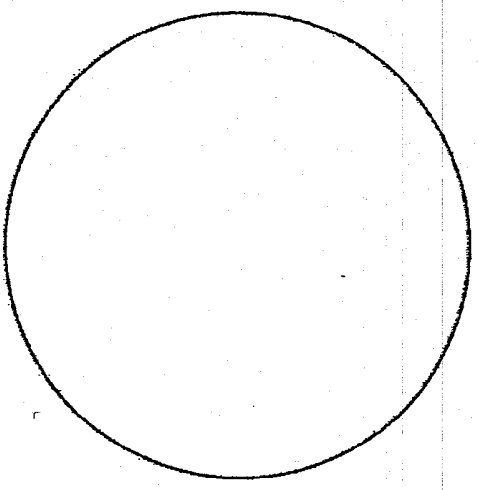
Instrument: EYE
Power: 1X
Seeing (1-10): 9
Transparency (1-5): 5

FIELD DRAWING

Low Power



High Power



DESCRIPTION

Easily seen - stands out well from rest of Milky Way as a distinct nebula - Pelican not as obvious.

Observing Log

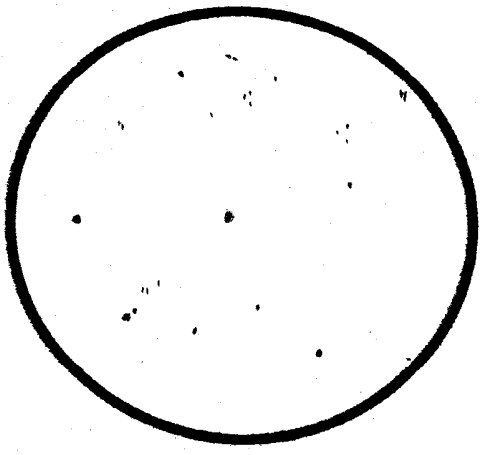
Object type: Globular Cluster

Object ID: NGC 7006

Const.: Del

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/27/3

Time 9:42 CDT

Location RNCC

Seeing 8 **Transparency** 6

Instrument EQX-125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or loosely concentrated?** Can't tell at 47x
- **Is any part of the cluster resolved into stars?** No
- **Is any mottling visible?** No
- **Can the edges be resolved?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Prust)

Observing Log

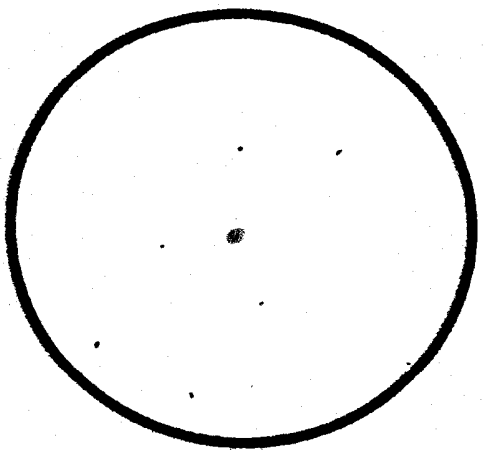
Object type: **Globular Cluster**

Object ID: NGC 7006

Const.: Del

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/27/3

Time 9:48

Location MCC

Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125mm

Eyepiece _____

Field of view _____ **Power** 153x

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?** No
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** No
- **Is any mottling visible?** No
- **Can the edges be resolved?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description 153x no help!

(1999 Cole & Preuß)

LOCATION: VERDIGRIS

DATE: 6/28/96 TIMES: CST CDT

DESCRIPTION:

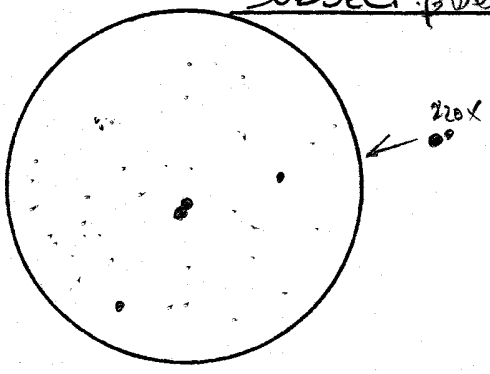
C: I II III IV V

S: I II III IV V

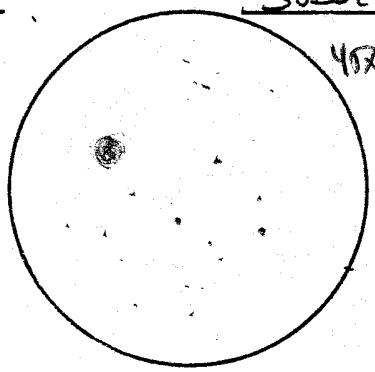
I: EYE 10X50 4:"5 OTHER

P: 0X 10X 45X 90X 220X 440X

SUBJECT: β Del +



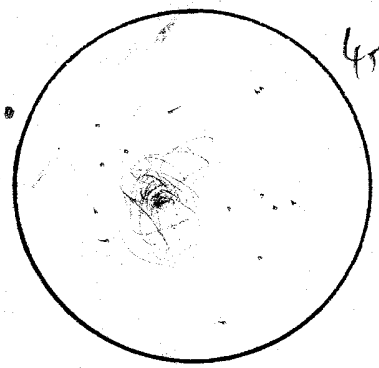
SUBJECT: NGC 7006



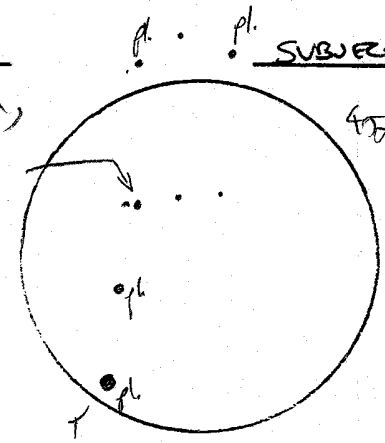
45X - Not to hard, no hope for resolution

SUBJECT: Comet

45X much easier in b/y

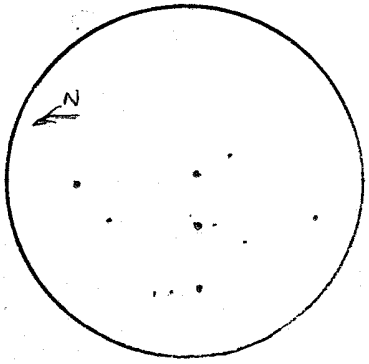


SUBJECT: Thisbe



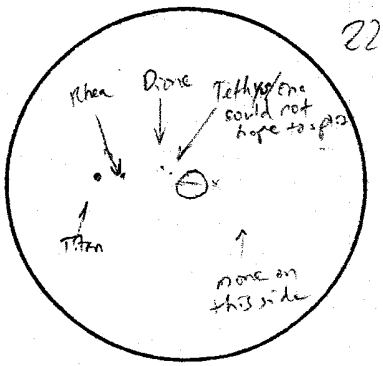
45X

SUBJECT: ?



SUBJECT: ♄

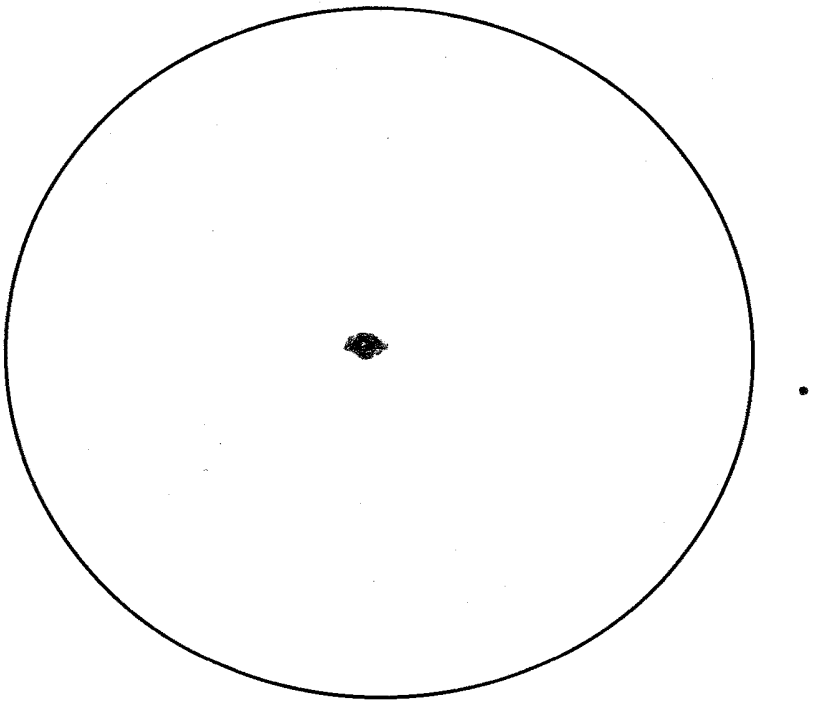
220X 5:15am



DATE 7/23/3 **TIME** 1:40 CST (DT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X (475X)

OBJECT NGC 7009 **LOCATION** (RMCC) HOME _____



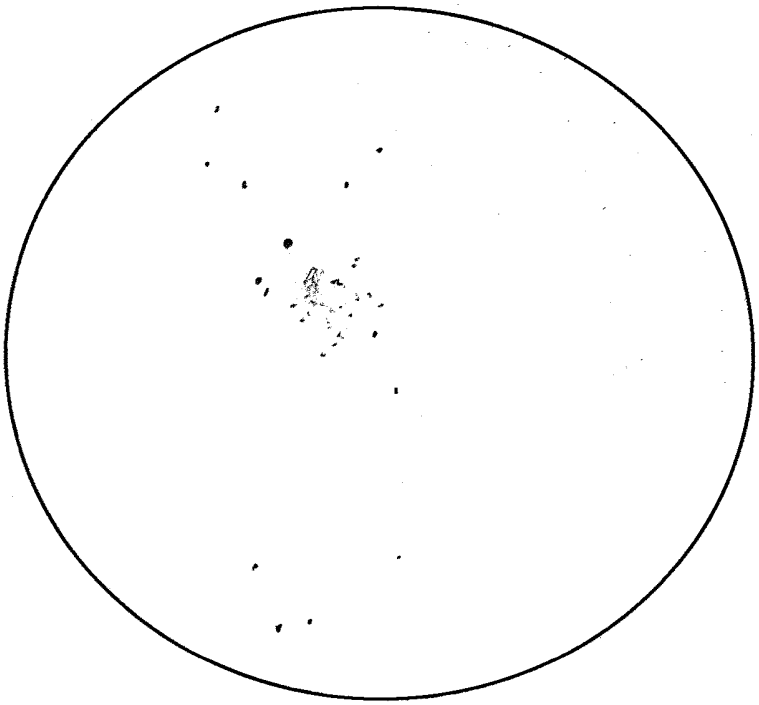
W/NF Whoa! Unbelievable detail
with "ears" & some mottling
Blue-green too.

CFN#2

DATE 7/23/3 **TIME** 11:10 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 7044 **LOCATION** RMCC HOME _____



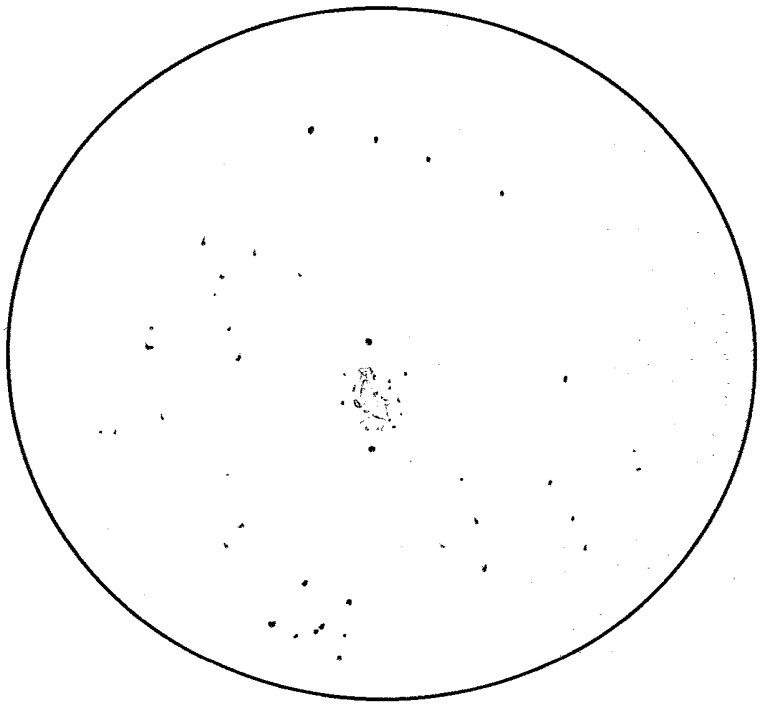
A little shape & "glow" of unresolved 11-mags.

CFN#2

DATE 7/23/3 **TIME** 0100 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 7062 **LOCATION** (RMCC) HOME _____



Another dim cluster just barely richer than sandy beach of stars around it.

Observing Log
Object type: Open Cluster

Object ID: NGC 7086

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 9/20/3

Mag: _____ **Size:** _____ **Time** 1:00 CDT

Location AMCC

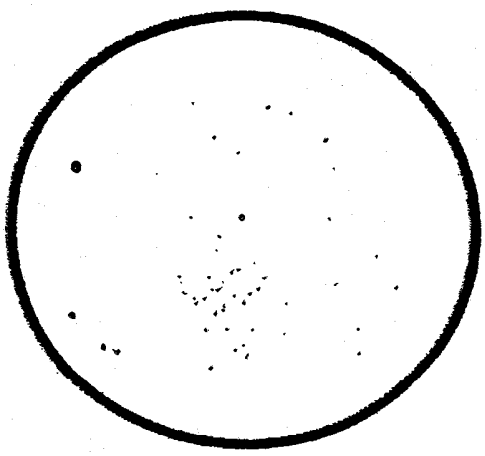
Seeing 9 **Transparency** 5

Instrument ETX-125

Size 125mm

Eyepiece 42mm

Field of view _____ **Power** 47X



- **Can this cluster be easily distinguished from the background stars?** (rich area)
- **What is the overall shape of the object?** scattered
- **How many stars can you count in the cluster?** ~50
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** just lanes
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

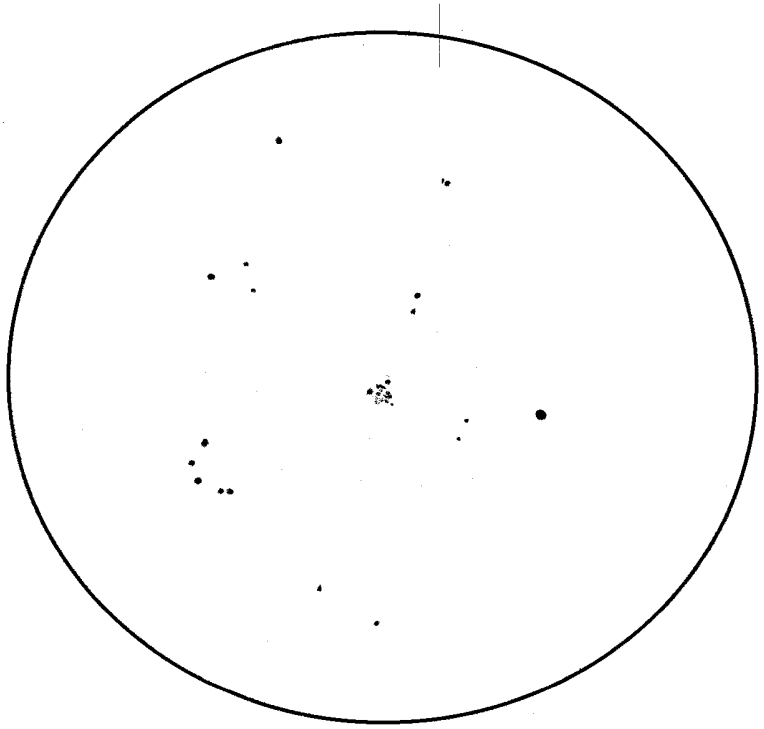
Description _____

(1999 Cole & Praet)

DATE 10/7/23 **TIME** 9:00 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V
6 5 4 3 2 1 0 10 8 6 4 2 0

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10 (47) 73 153 475X **NEB FILTER**

OBJECT NGC 7128 **LOCATION** (RMCC) HOME _____



Easy but small - two + faints that aren't quite resolved

Observing Log

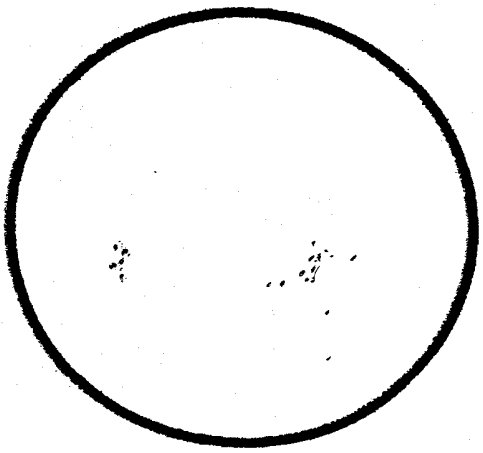
Object type: Open Cluster

Object ID: NGC 7142

Const.: Cep

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/28/05

Time 12:40

Location Nmcc

Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47X

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Box w/arms
- **How many stars can you count in the cluster?** 15-20
- **Are the stars more concentrated in any one particular area?** Box
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Clump to NE.

Description _____

(1999 Cole & Preuit)

Observing Log

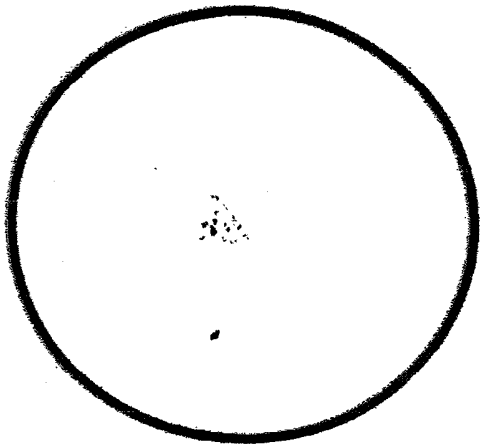
Object type: Open Cluster

Object ID: NGC 7160

Const.: Cep

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer SY

Date 9/28/13

Time 12:20

Location RMC

Seeing 8 **Transparency** 6

Instrument ETX125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 162X

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** scattered
- **How many stars can you count in the cluster?** 25
- **Are the stars more concentrated in any one particular area?** Around 7m
- **Is this cluster resolved (fully) or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, no
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

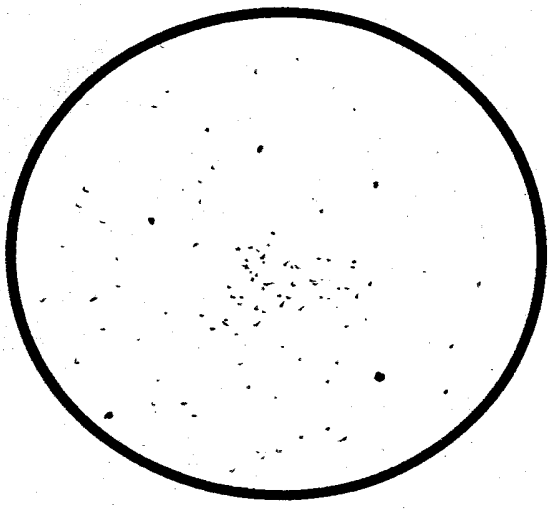
Object type: **Open Cluster**

Object ID: NGC 7209

Const.: LAC

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 21:10

Location RMCC

Seeing 6 **Transparency** 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** fairly
- **What is the overall shape of the object?** Still a little "dudish" but more filled out
- **How many stars can you count in the cluster?** 50
- **Are the stars more concentrated in any one particular area?** Clumpy
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** Near bright star (Gem)
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 7209

Const.: Lac **Observer** BY

RA: _____ **Dec.:** _____ **Date** 9/28/13

Mag: _____ **Size:** _____ **Time** 1:00

Location rmce

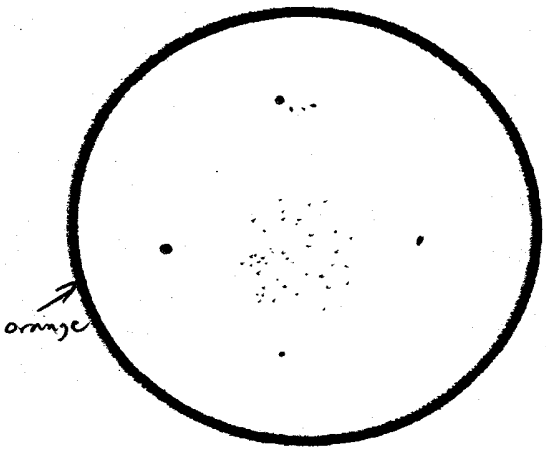
Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125 mm

Eyepiece 40mm

Field of view _____ **Power** 47x



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** 40
- **Are the stars more concentrated in any one particular area?** No, just clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, orange
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Praet)

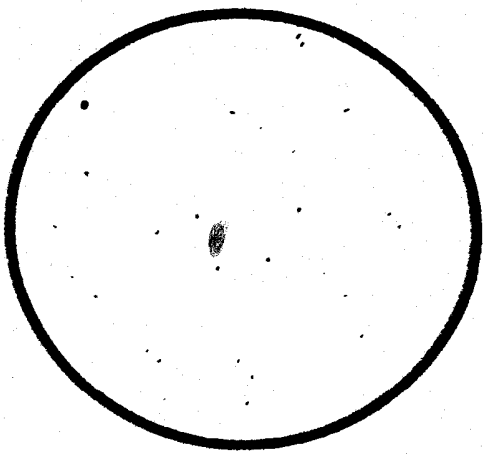
Observing Log
Object type: Galaxy

Object ID: NGC 7217

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 20:20

Location MCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** (Improves w/)
- **What is the overall shape?** 2x1 ellip.
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Just hints
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** A little "wispy"
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Preuit)

Object Name: NGC 7243
Constellation: LAC
R.A./Dec:

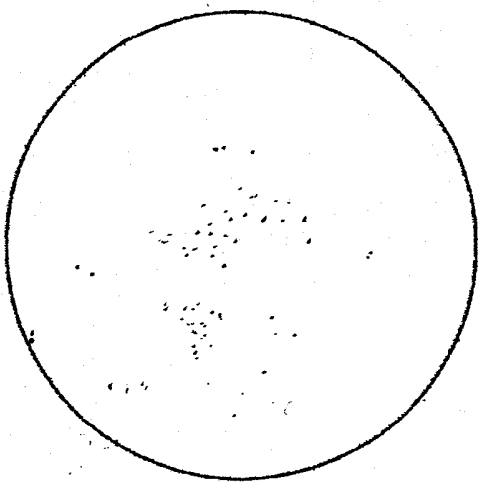
OBSERVATION LOG

Name: BY
Date: 10/15/12
Time: 20:50
Site: RMCC

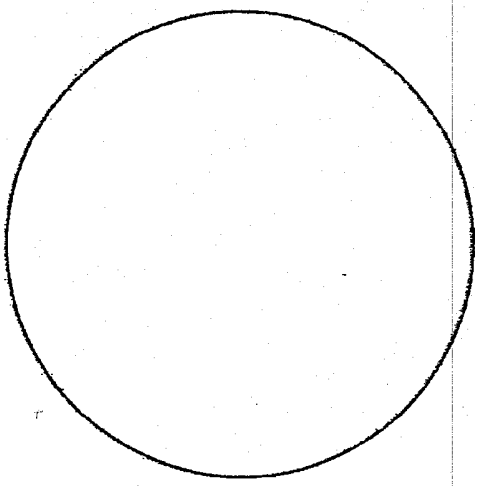
Instrument: ETX125
Power: 47x
Seeing (1-10): 8
Transparency (1-5): 5

FIELD DRAWING

Low Power



High Power



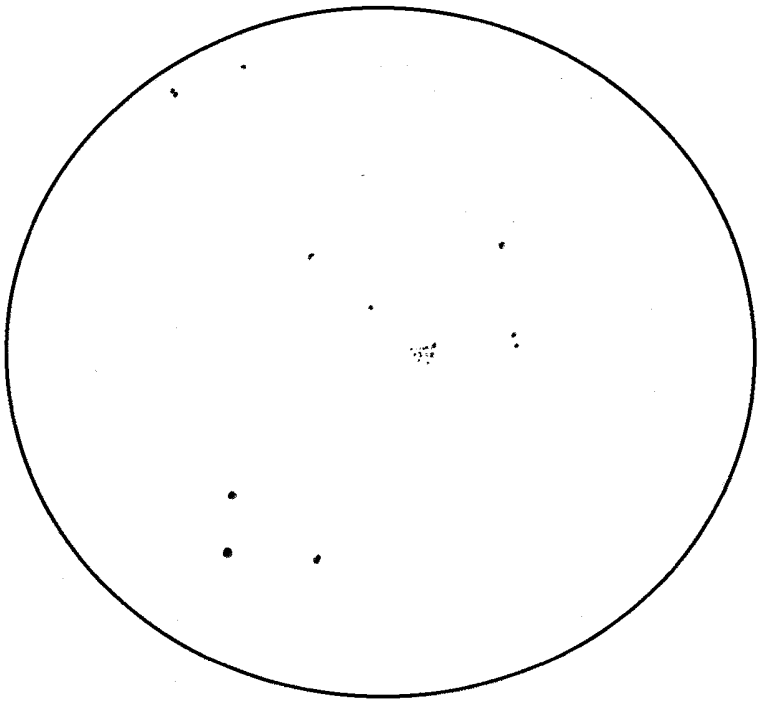
DESCRIPTION

NICE CLUSTER, EASY TO DISTINGUISH
SAME ✓ SHAPE AS SEEN IN CLV,
BUT WITH DISTINCT GAP IN MIDDLE
NO STARS HERE, FULLY RESOLVED

DATE 10/17/3 **TIME** 8:50 CST (CDT) **CLARITY** I II III IV V (6 5 4 3 2 1 0) **SEEING** I II III IV V (10 8 6 4 2 0)

INSTRUMENT ~~ETX-125~~ 10x50 EYE **POWER** 10 (47) 73 153 475X **NEB FILTER**

OBJECT NGC 7296 **LOCATION** (RMCC) HOME _____



Easily found with a chart & correct directions!
Neat little box of ~15 stars, brightest = deep yellow-orange.

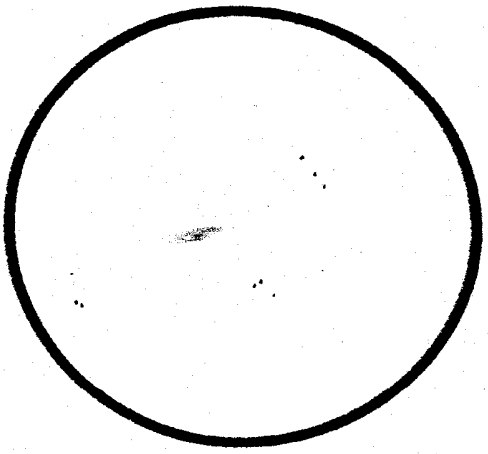
Observing Log
Object type: Galaxy

Object ID: NGC 7331

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 21:00

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** INSET (73x)
- **What is the overall shape?** 4x1 elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** N.
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No.
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

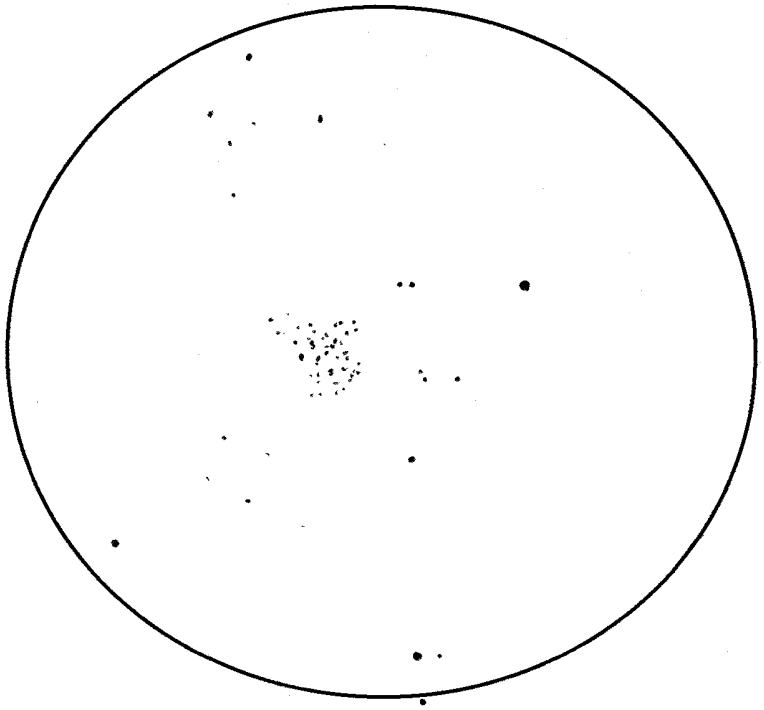
Description Note: also used 73x - didn't bring out outer area as well, but brightened core & showed it as two bright areas w/ slight break between them (see inset)

(1999 Cole & Pratt)

DATE 10/17/3 **TIME** 9:20 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V
6 5 4 3 2 1 0 10 8 6 4 2 0

INSTRUMENT ETX-125 10x50 EYE **POWER** 10 47 73 153 475X **NEB FILTER**

OBJECT NGC 7380 **LOCATION** RMCC HOME



Lovely, rather loose but what a field!

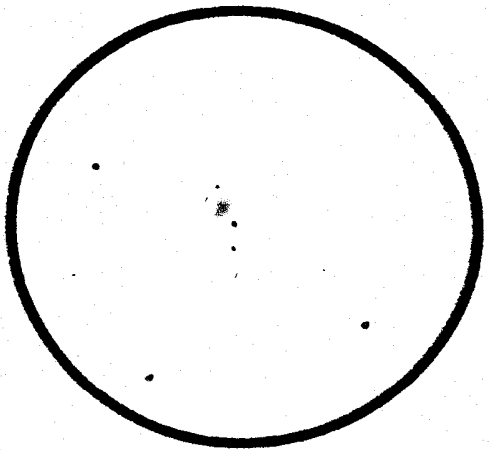
Observing Log
Object type: Galaxy

Object ID: NGC 7448

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 21:19

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** roundish-oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Almost same deth as NGC 7454 just seen — but this one's a rounder oval & sticks out better in field

(1999 Cole & Pratt)

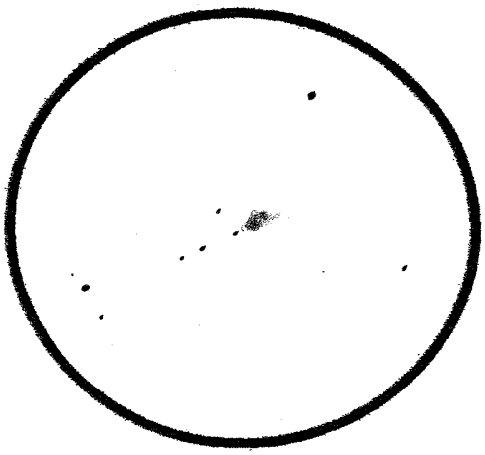
Observing Log
Object type: **Galaxy**

Object ID: NGC 7479

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/13

Time 21:25

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elong a bit oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Not much, sort of lopsided
- **Are the edges of the outer envelope sharp or diffuse?** Mod.
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** A hint of SW elong
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description see 73e (next)

(1999 Cole & Pratt)

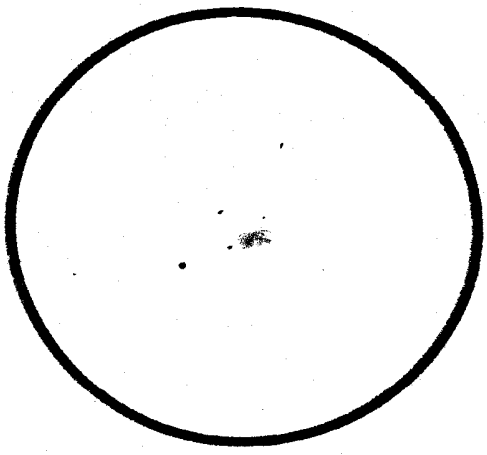
Observing Log
Object type: **Galaxy**

Object ID: NGC 7479

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 21:30

Location RMCC

Seeing 8- **Transparency** 5-

Instrument ETX-125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** oval w/elong to SW
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** yes-see drwg
- **Are the edges of the outer envelope sharp or diffuse?** mod.
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** see drwg
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

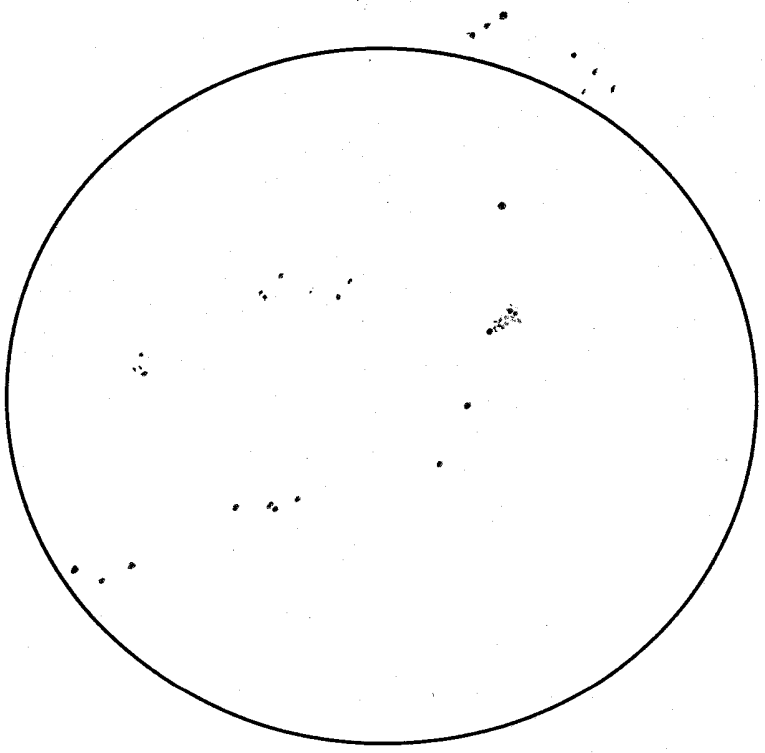
Description Much more detailed-shows "bumps" elong.

(1999 Cole & Pratt)

DATE 10/7/13 **TIME** 9:00 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X (47X)

OBJECT NGC 7510 **LOCATION** (RMCO) HOME _____

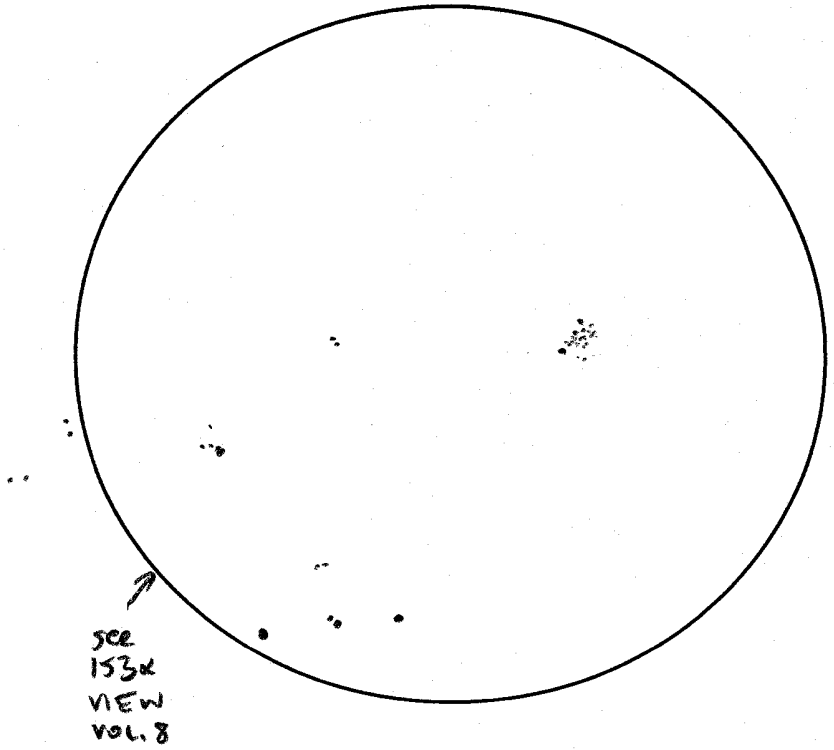


Lovely, mostly resolved ~ 10 stars → see next for 73x

DATE 10/17/3 **TIME** 10:20 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 7510 **LOCATION** (RMCC) HOME _____



IS resolved here - still a few unresolved in "fuzz"?

47x DIDN'T QUITE RESOLVE IT

Observing Log

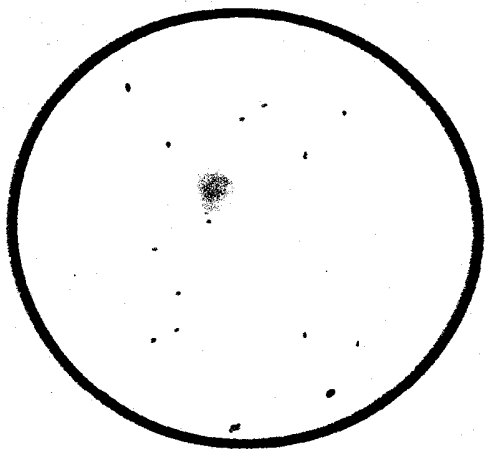
Object type: **Galaxy**

Object ID: NGC 7606

Const.: Agr

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 21:35

Location RMCe

Seeing 8- **Transparency** 5-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3x1 oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Just an amorphous glow - a bit large & rather faint

(1999 Cole & Print)

Observing Log

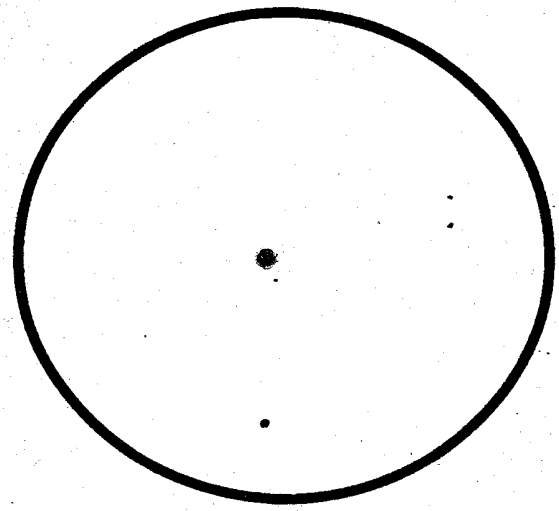
Object type: **Planetary Nebula**

Object ID: NGC 7662

Const.: And

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/26/3

Time 7:50

Location RMCe

Seeing 8+ **Transparency** 5

Instrument ETX

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

+n.f.

- **What is the overall shape?** Round
- **Is this planetary** very **easy or difficult to identify in your field?** even @ 47x
- **What is the color of this planetary?** Sl. blue
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?**
- **Is the center brighter,** abit **darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Some hint of structure but only mottling

(1999 Cole & Pratt)

Observing Log

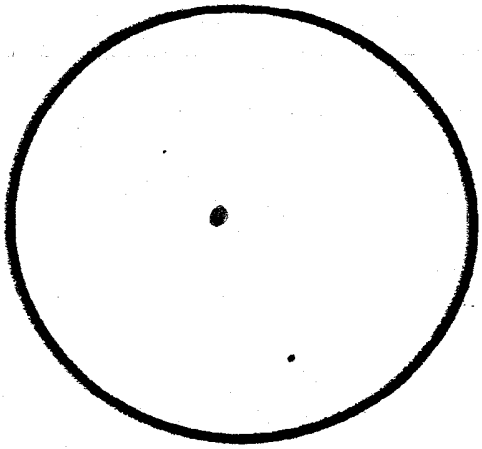
Object type: **Planetary Nebula**

Object ID: NGC 7662

Const.: And

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/14/3

Time 20:10

Location Home

Seeing 7 **Transparency** 6-

Instrument ETX-125

Size 125mm

Eyepiece 12.5mm

Field of view _____ **Power** 153X

W & W/O n f

- **What is the overall shape?** Round
- **Is this planetary easy** (even 47x) **or difficult to identify in your field?**
- **What is the color of this planetary?** Bluish w/o n.f., none w/nf
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** Mod.
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** Easy
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

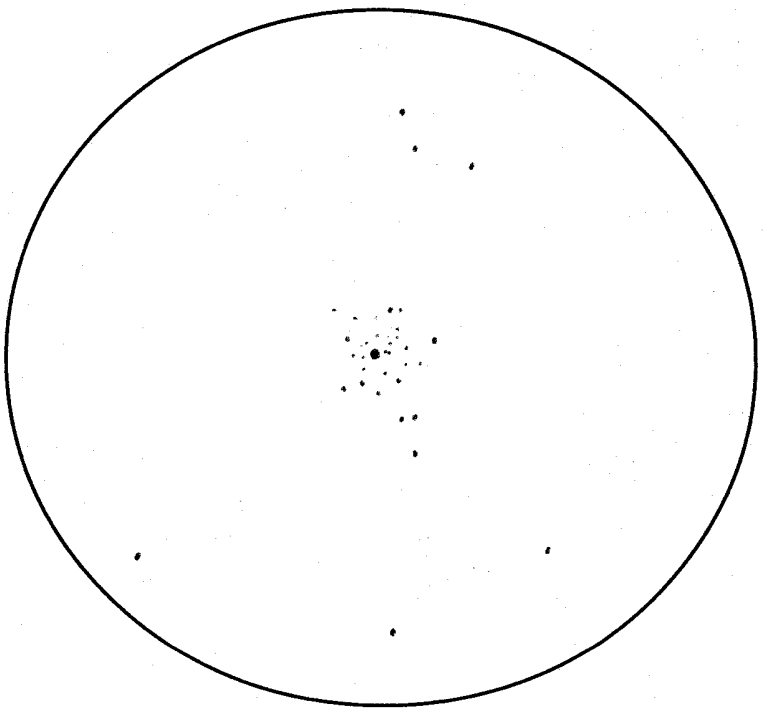
Description _____

(1999 Cole & Pratt)

DATE 10/7/12 **TIME** 10:10 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X (47X)

OBJECT NGC 7686 **LOCATION** (RMCC) HOME _____



Rather bland ~ 25 stars. Brightest is yellow-orange

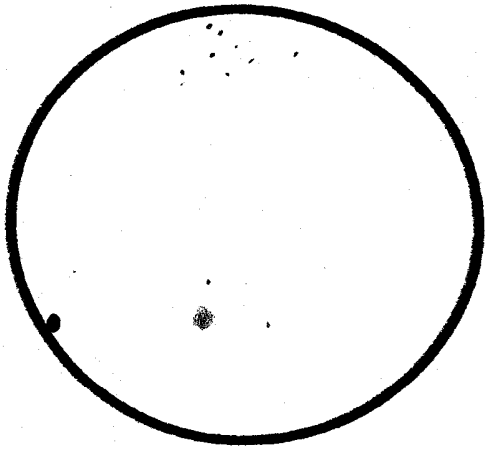
Observing Log
Object type: Galaxy

Object ID: NGC 7723

Const.: Agr

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 21:42

Location RMCC

Seeing 8- **Transparency** 5-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** barely
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Just hints of variation in brightness
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nice little asterism to N. Not as hard as last few but not easy!

(1999 Cole & Pratt)

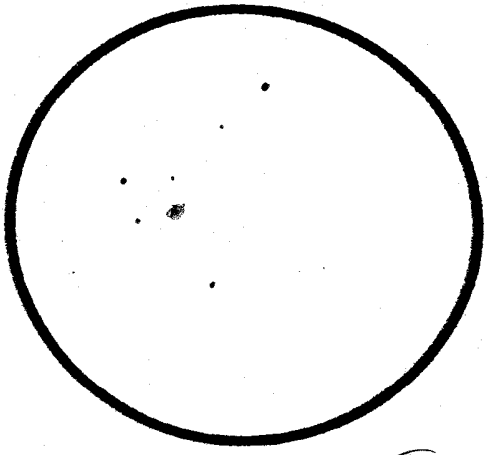
Observing Log
Object type: **Galaxy**

Object ID: NGC 7727

Const.: AQR

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/13

Time 21150

Location NMCC

Seeing 8- **Transparency** 5-

Instrument ETX-125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision (just barely), or is averted vision required (huge help)?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes-very
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse (Mod.)?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Seen w/47x but defined better w/73x

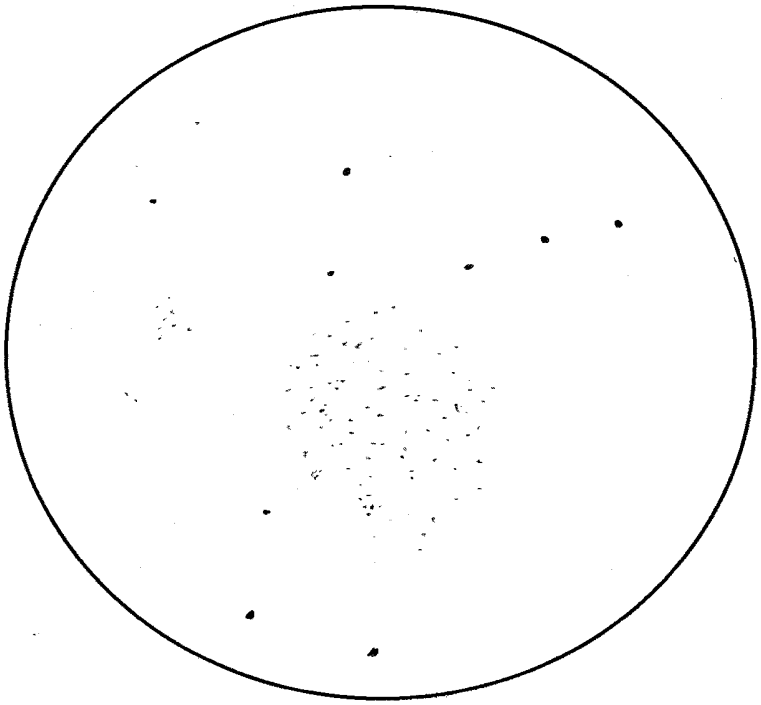
(1999 Cole & Preuß)

@RMCC

DATE 11/6/2 **TIME** 6:40 (CST) CDT **CLARITY** (I) II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 7789 **LOCATION** (RMCC) HOME _____



IMPOSSIBLE TO DRAW THE DELICATE CURVES OF STARS & IMPRESSION OF FAINT GLOW BEHIND IT. ALSO, FIELD IS "GLOWING" FROM MILKY WAY BACKGROUND. DELICATE & BEAUTIFUL.

NOTE: ALSO LOOKED AT θ_1 Ori (w/M42) (REVISIT)

θ_2 Ori (REVISIT)

ι Ori (REVISIT) (w/ Σ745 & Σ747)

σ Ori (w/ Σ761)

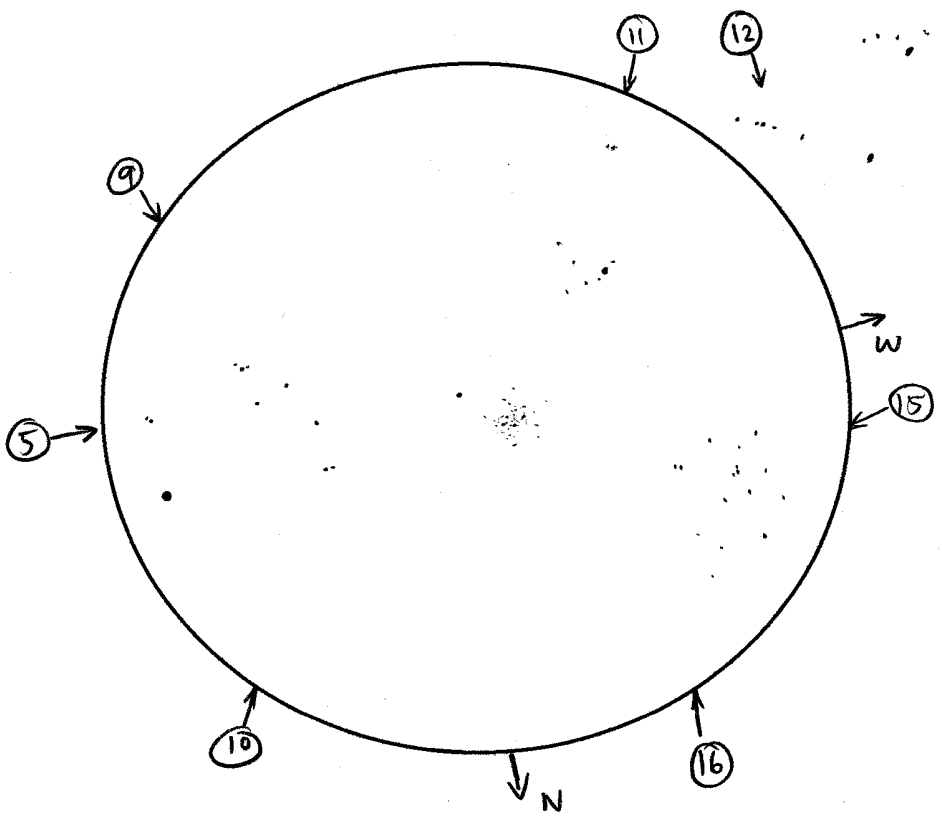
δ Ori (failed on close split - try again)

γ Lep (never before seen (!))

DATE 11/10/2 **TIME** 8:35 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X (13)

OBJECT NGC 7790 **LOCATION** ~~RMCC~~ HOME _____



23h 40m -0h
+60° - 62°

Continuing on from last page. NGC 7790 itself small but rich with 10 m (3 or 4) & many 11 m - in tight hazeless group. (5) - see last page

(9) Very nice close pair or triple even

(10) Nice even pair - might be Arg 99 C-E rt PA off 180°

(11) Nearly even

(12) Nice, in line of 4

(13) Couldn't help noticing to SW

(14) Very delicate pair just SW of plot 8 m "d61" on Orion

(15) Very delicate triple

(16) Nice even pair

Observing Log

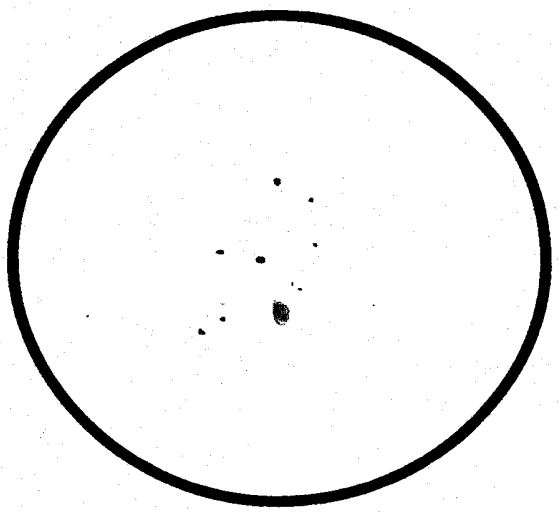
Object type: Galaxy

Object ID: NGC 7814

Const.: Peg

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 7:55 pm CST

Location RMCC

Seeing 8+ **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** sl. elongated
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

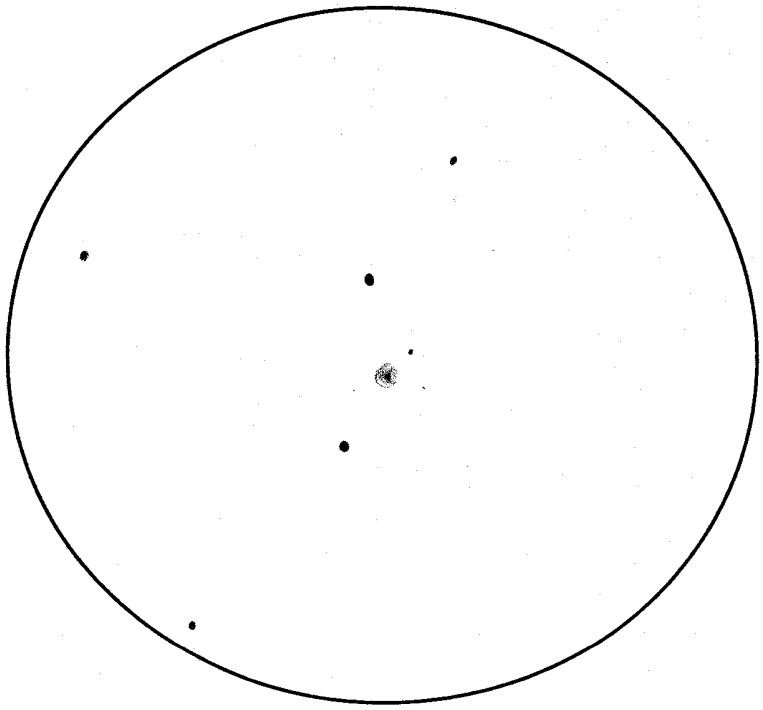
Description NOTE: 73x brought out stellar nucleus, which seems a little off-center, and a small amount of mottling, a few more faints nearby.

(1999 Cole & Pratt)

DATE 10/17/3 TIME 10:20 CST (CDT) CLARITY I (I) II IV V SEEING I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10X 73X (153X) 475X w/nf

OBJECT M6 40 LOCATION (RMCO) HOME _____



Wonderful — very easy C.S. & bkgd milky and haze, with great field.

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

OBSERVATION: 10/25-26 cont SEEING: ____ CLARITY: ____

GENERAL NOTES: ____ TIME: ____ CST / CDT DATE: ____

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X LOCATION: ____



SUBJECT: NGC 40

TIME: ____ CST / CDT

INSTRUMENT: 4.5"

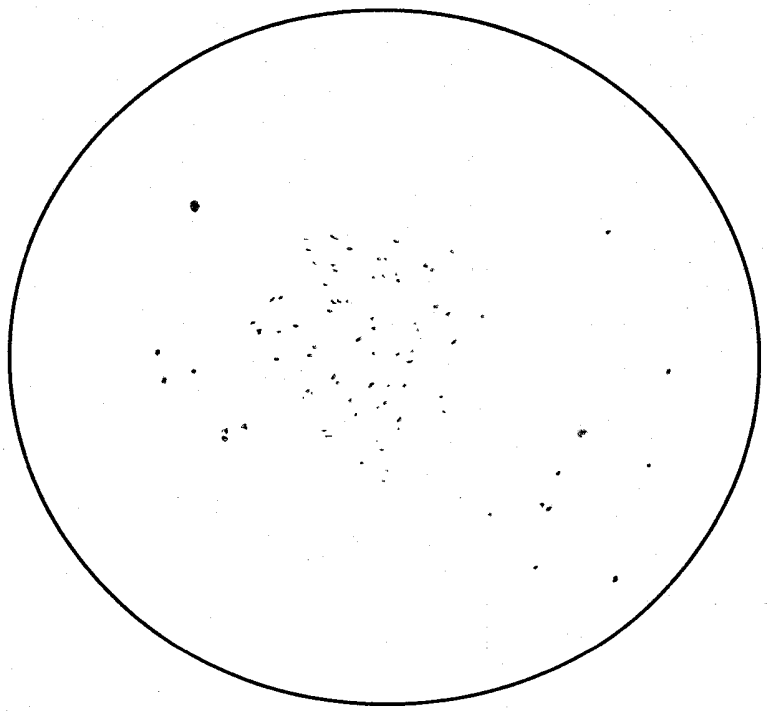
NOTES: 45X

220X also

DATE 10/7/13 **TIME** 10:25 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X (47)

OBJECT NGC 129 **LOCATION** (RMCC) HOME _____

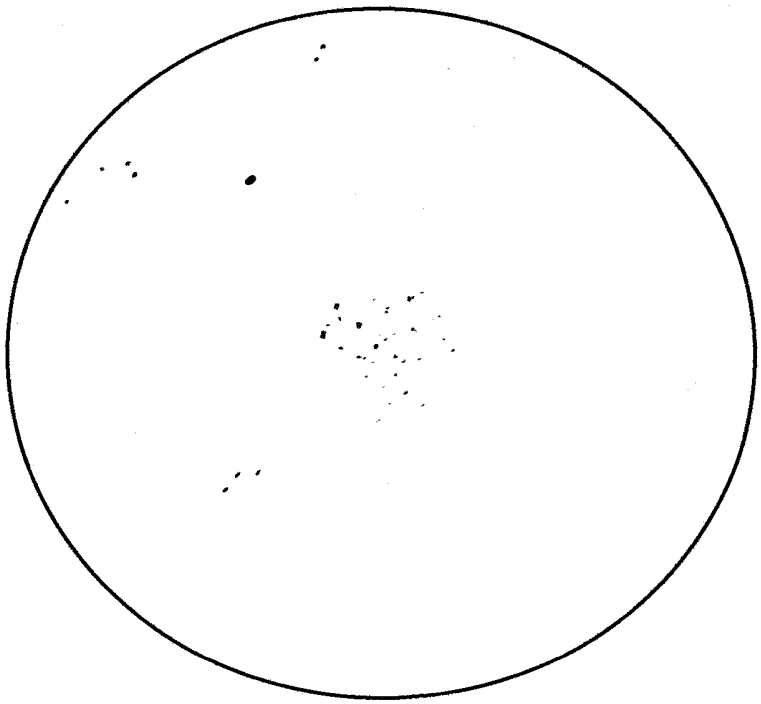


Got it again - forgot I'd seen it! Nice, round shape w/ cool field - compare next - E-Lux eyepiece brings out more stars!

DATE 11/10/2 **TIME** 8:20 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 129 **LOCATION** (RMCC) HOME _____

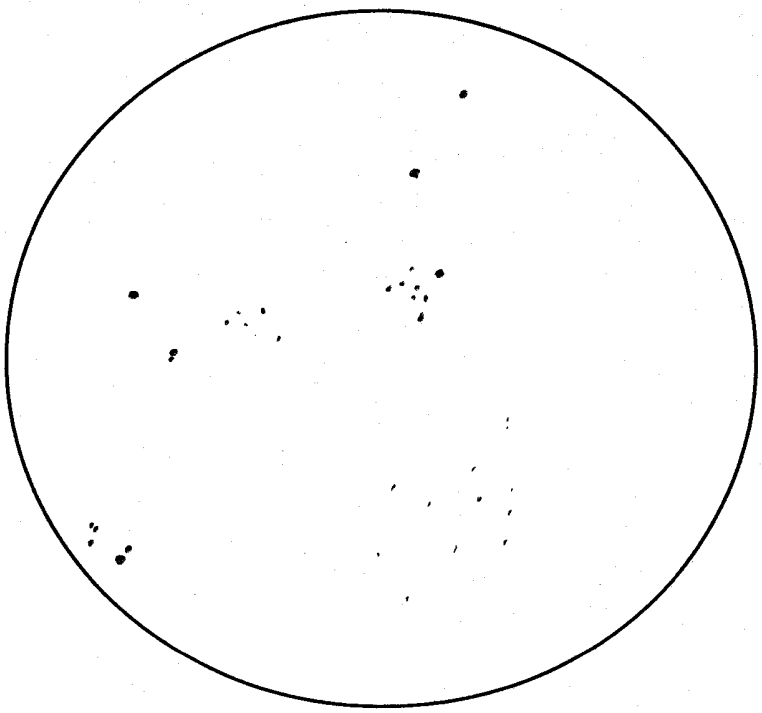


Lovely - stands out well with several brights (~10m) & on down ~20 seen + some unresolved haze

DATE 10/17/2 **TIME** 1013 CST (CDT) **CLARITY** I II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X (47X)

OBJECT NGC 136 **LOCATION** (RMCC) HOME _____



SMALL KNOT OF 8 STARS - NOT REAL IMPRESSIVE

Observing Log

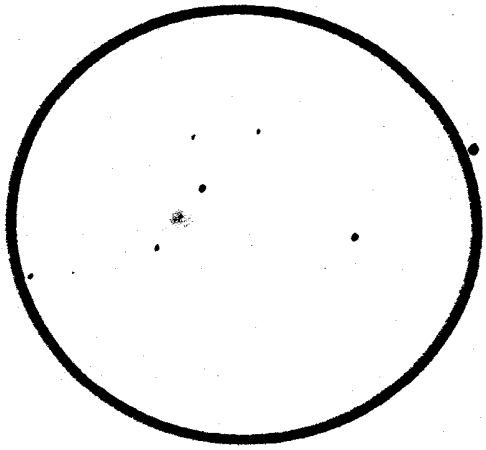
Object type: **Galaxy**

Object ID: NGC 157

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 22:05

Location RMCE

Seeing 7 **Transparency** 4

Instrument DOB 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** barely / better
- **What is the overall shape?** oval
- **Is a core noticeable?** barely
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Mottly
- **Are the edges of the outer envelope sharp or diffuse?** Mott
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

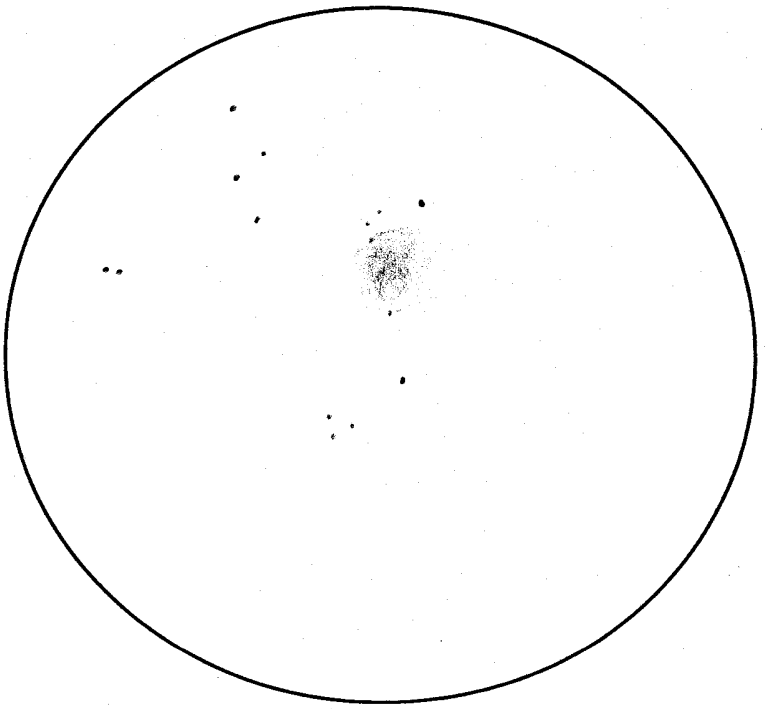
Description _____

(1999 Cole & Pratt)

DATE 10/7/13 **TIME** 10:40 CST (CDT) **CLARITY** (I) III IV V **SEEING** (I) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X (47X)

OBJECT NGC 185 **LOCATION** (RMCO) HOME _____



Not too hard - once noticed w/ AV can see directly

As time wore on, extended halo out quite a bit

as shown. No nucleus seen.

Observing Log

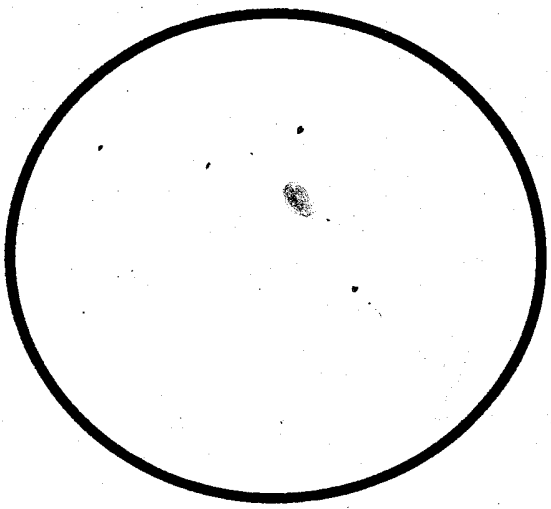
Object type: **Galaxy**

Object ID: NGC 185

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 21:45

Location RMCE

Seeing 7 **Transparency** 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** (fairly) (helps)
- **What is the overall shape?** Ovl
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or (diffuse?)**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Just nmb
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

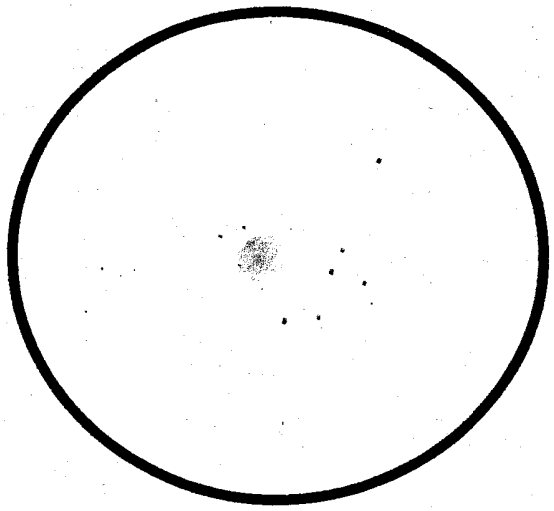
Object type: Galaxy

Object ID: M110 (NGC 205)

Const.: AND

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 21:40

Location RMCC

Seeing 7 **Transparency** 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** helps
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** M31 background — maybe still hints of it

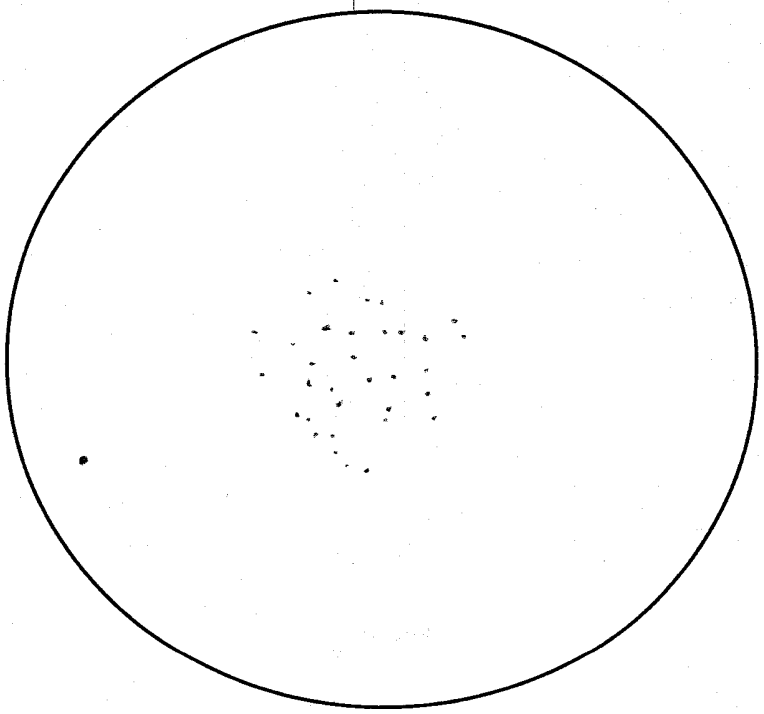
Description _____

(1999 Cole & Pratt)

DATE 10/17/03 **TIME** 1035 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X (47x)

OBJECT NGC 225 **LOCATION** (RMCC) ~~HOME~~ _____



NICE - LARGE & FAINT ~20 STARS.

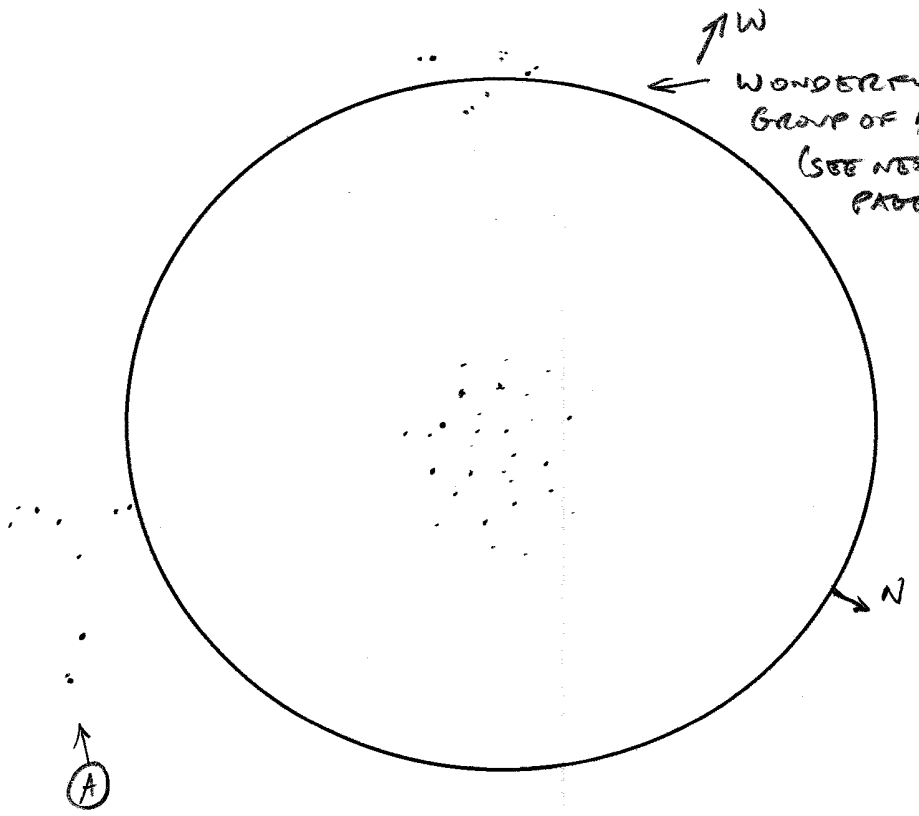
RAN INTO IT - WENT WRONG WAY FOR NGC 136

11/6/2

DATE 11/6/2 **TIME** 7:30 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 225 **LOCATION** (RMCC) HOME _____



0h32-0h50

+61°-62°30'

STANDS OUT WELL FROM M.WAY (NOT SHOWN)

C SHAPE WITH FILL IN TO ROUNDNESS, ~ 20 STARS

(A) H; 1053 ? PA changed ?

SEE NEXT PAGE FOR GROUP NOTED

Observing Log

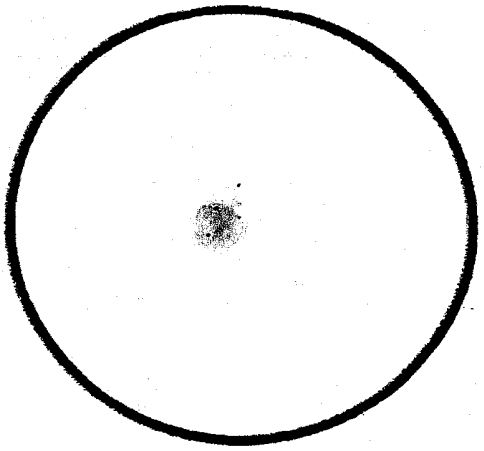
Object type: **Planetary Nebula**

Object ID: NGC 246

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 22:15

Location RMCE

Seeing 7 **Transparency** 5-

Instrument ETX 125

Size 125

Eyepiece 12.5

Field of view _____ **Power** 153X w/n.f.

- **What is the overall shape?** Round
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** No color
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** very
- **Is the center brighter, darker, or the same brightness as the edges?** approx.
- **Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description See also 47x view (next)

(1999 Cole & Pratt)

Observing Log

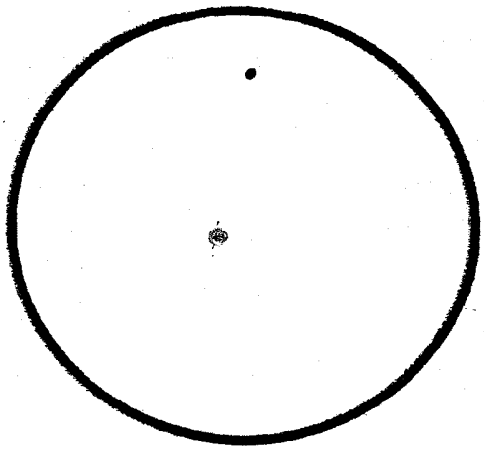
Object type: **Planetary Nebula**

Object ID: NGC 246

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/15/3

Time 2212o

Location NMex

Seeing 7 **Transparency** 5-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x

+n.G

- **What is the overall shape?** Round
- **Is this planetary (easy) or difficult to identify in your field?**
- **What is the color of this planetary?** None
- **Is it (disk-shaped) or is it more stellar in appearance?**
- **Are the edges of the disk sharp or (diffuse)?**
- **Is the center brighter, darker, or the (same) brightness as the edges?**
- **Any suggestions for observing this nebula (i.e. (filter), power, (field of view), etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Prust)

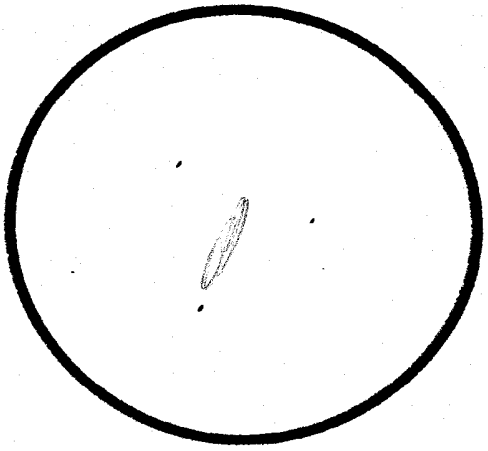
Observing Log
Object type: Galaxy

Object ID: NGC 247

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BT

Date 9/19/3

Time 11:30 CDT

Location RMCC

Seeing 8 **Transparency** 6

Instrument ETX-125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** very elong.
- **Is a core noticeable?** No
- **Is the core compact or stellar?** None
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very faint but seen w/AV

(1999 Cole & Preuit)

Observing Log

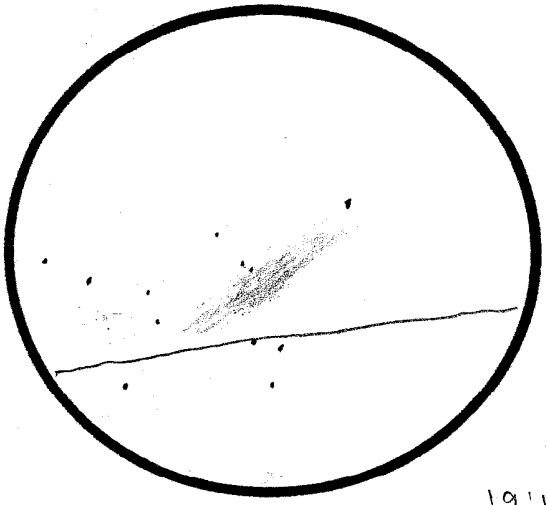
Object type: **Galaxy**

Object ID: NGC 253

Const.: Scl

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/19/3

Time 7:15 CST

Location RMCC

Seeing 9 **Transparency** 5

Instrument ~~ETX~~ 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

19:12:40 (approx.) ~8m satellite

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Highly elongated
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Yes, south side of main bulge is mottled.
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

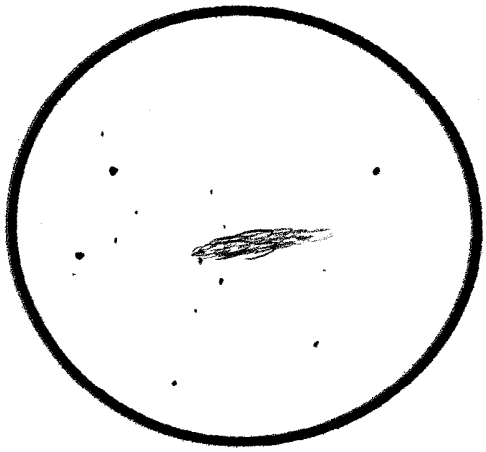
Observing Log
Object type: **Galaxy**

Object ID: NGC 253

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/19/3

Time 11:30 CDT

Location RMCE

Seeing 8 **Transparency** 6

Instrument ETX125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong lenticular
- **Is a core noticeable?** No.
- **Is the core compact or stellar?** None
- **Can any detail be seen between the core and the outer envelope of the object?** See lwg
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Some
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Wow, almost bright - very strange shape & shine

(1999 Cole & Pratt)

Observing Log

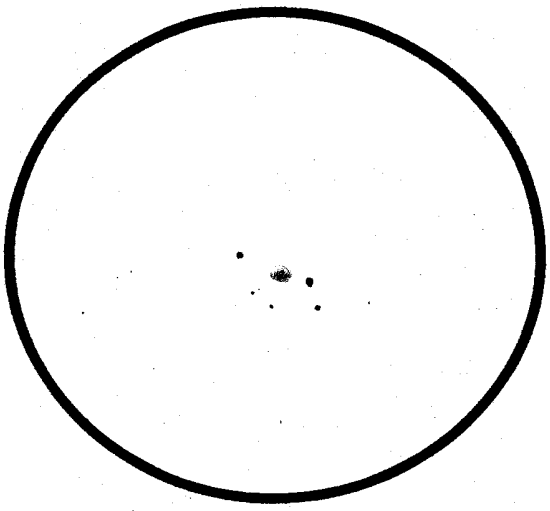
Object type: **Galaxy**

Object ID: NGC 278

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:00

Location RMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** A bit of mottle
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** a bit
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

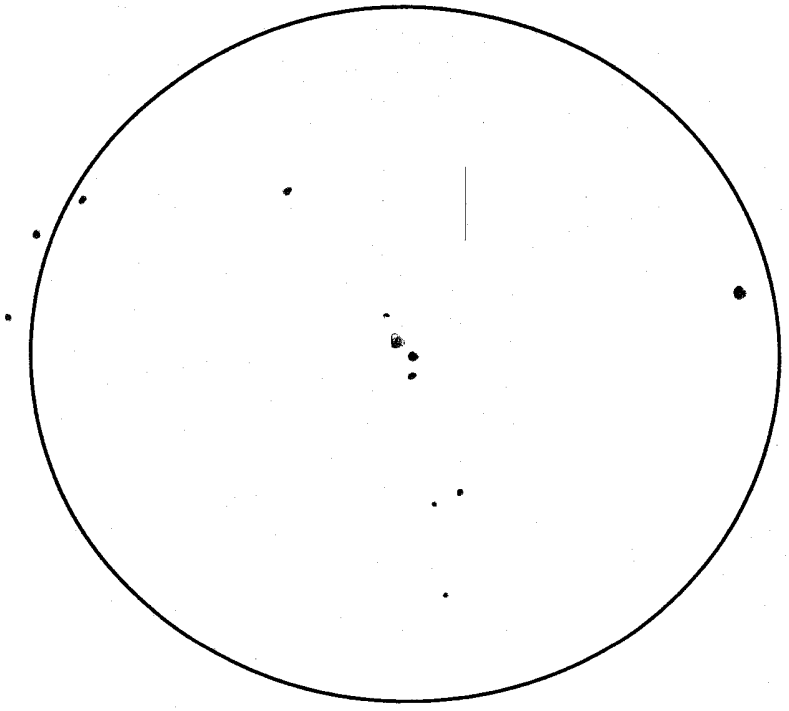
Description _____

(1999 Cole & Pratt)

DATE 10/17/3 **TIME** 11:10 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 278 **LOCATION** (RMCC) ~~HOME~~ (47)



Very bright ellip. - nucleus + hint of halo

Easy to find - didn't push power only

because not perfect clarity of sky.

Observing Log

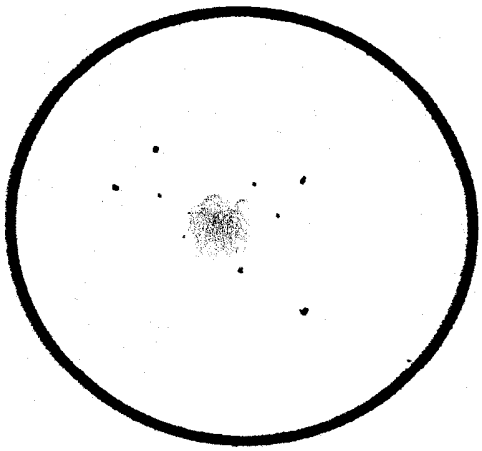
Object type: **Globular Cluster**

Object ID: NGC 288

Const.: Scl

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/19/3

Time 7:25 CST

Location NMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** Hints all across face & edges
- **Is any mottling visible?** Throughly
- **Can the edges be resolved?** Barely
- **Are there any other deep-sky objects in the same field of view? If so, what?** N,

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Globular Cluster**

Object ID: NGC 288

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 9/19/3

Mag: _____ **Size:** _____ **Time** 11:40 CDT

Location NMCC

Seeing 8 **Transparency** 6

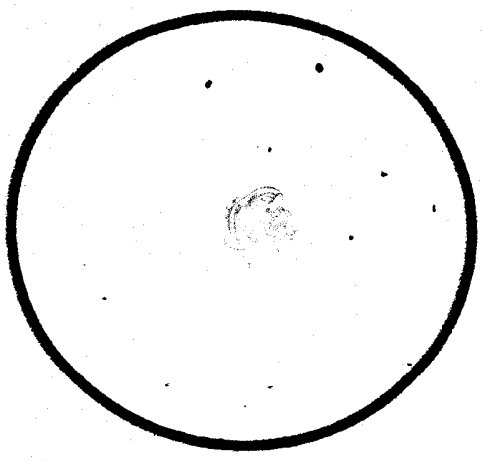
Instrument ETX125

Size 125mm

Eyepiece _____

Field of view _____ **Power** 72x

47x not as much nothing



- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or ~~not~~ distinguishable?**
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** just hints
- **Is any mottling visible?** Yes
- **Can the edges be resolved?** barely hints
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Wonderful rich dom, looks very distant

(1999 Cole & Pratt)

Observing Log

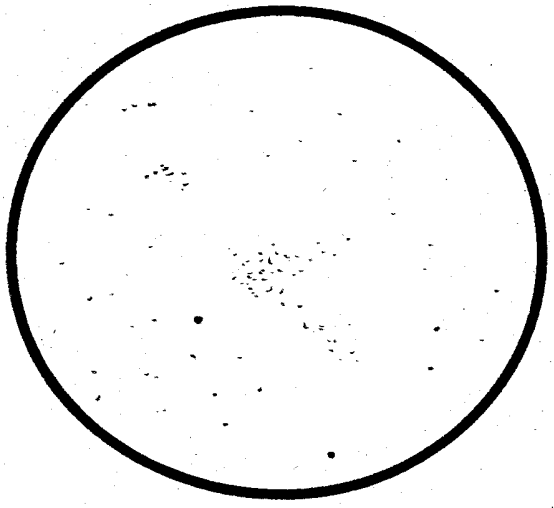
Object type: **Open Cluster**

Object ID: NGC 381

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:35

Location RMCC

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Scattered w/"arms" to E&N
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** As shown
- **Is this cluster resolved fully or is there some background nebulosity noticed?** just a bit (of unresolved stars)
- **Is there any particular area where you notice an absence of stars in this cluster?** See key
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** A little yellowish cast
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description _____

(1999 Cole & Pratt)

Observing Log

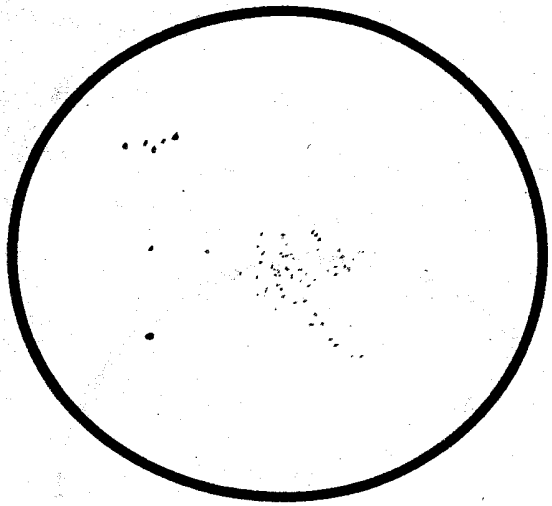
Object type: **Open Cluster**

Object ID: NGC381

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:40

Location RMCe

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this cluster be (easily) distinguished from the background stars?**
- **What is the overall shape of the object?** See drwg
- **How many stars can you count in the cluster?** 25
- **Are the stars more concentrated in any one particular area?** See drwg
- **Is this cluster resolved (fully) or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** See drwg
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** yellowish
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Cool line of 3 in E "portion"

(1999 Cole & Pratt)

Observing Log

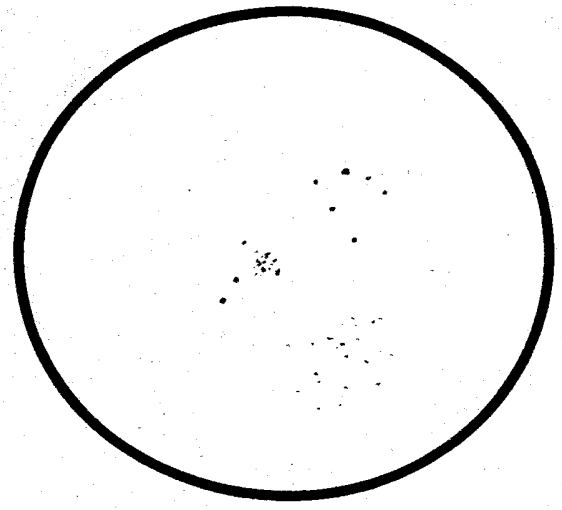
Object type: **Open Cluster**

Object ID: NGC 436

Const.: Cas

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:55

Location NMCC

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Clumps
- **How many stars can you count in the cluster?** 10 + 10 over in dim area
- **Are the stars more concentrated in any one particular area?** Clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** Clumps
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description ET THROUGH FEET

(1999 Cole & Pratt)

Observing Log

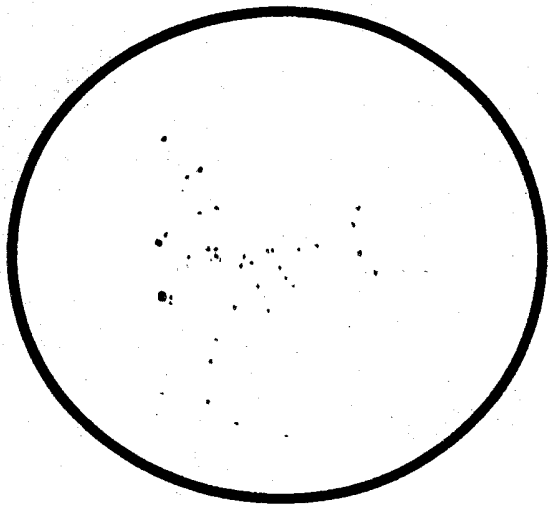
Object type: **Open Cluster**

Object ID: NGC 457

Const.: Cas

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:50

Location NMCC

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** ET
- **How many stars can you count in the cluster?** 40
- **Are the stars more concentrated in any one particular area?** See drwg
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** drwg
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** brightest = golden
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 457

Const.: Cas

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 10/14/3

Time 20:55

Location Home

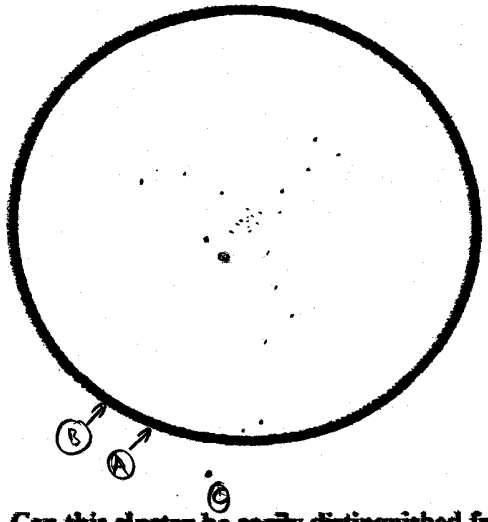
Seeing 8 **Transparency** 6-

Instrument ETX 125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x



- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** E, T.
- **How many stars can you count in the cluster?** 25
- **Are the stars more concentrated in any one particular area?** "Heart"
- **Is this cluster resolved fully or is there some background nebulosity noticed?** Just a bit in heart - almost resolved
- **Is there any particular area where you notice an absence of stars in this cluster?** No.
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes (A) = gold (B) = pale white (C) = yellowish
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Just seen for "Universal Sampler" but better view this time

(1999 Cole & Praat)

Observing Log

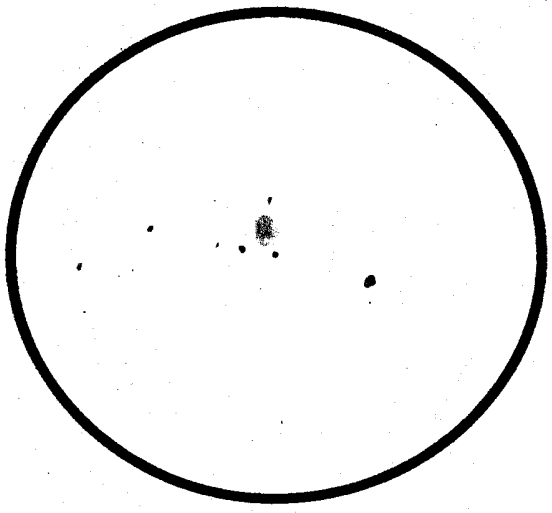
Object type: **Galaxy**

Object ID: NGC 488

Const.: PSC

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 23:34

Location RNCE

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or (fairly) diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description NOTE: 75X (USED BUT NO ONE) - NO MORE DETAIL BUT BIGGER & A LITTLE BRIGHTER

(1999 Cole & Pratt)

Observing Log

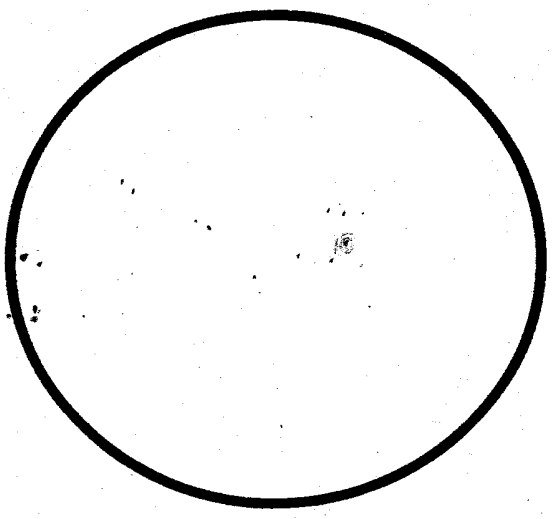
Object type: Galaxy

Object ID: NGC524

Const.: Psc

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/12/3

Time 23:40

Location NMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

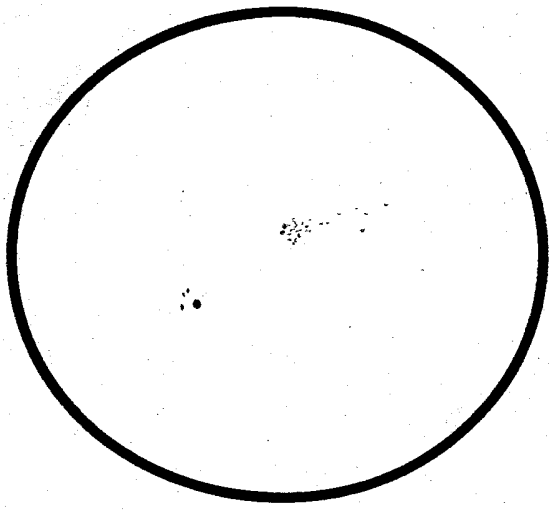
Object type: **Open Cluster**

Object ID: NGC559

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 23:00

Location RMCC

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** "head of a Comet"
- **How many stars can you count in the cluster?** 10 +line
- **Are the stars more concentrated in any one particular area?** line is much slimmer
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description NOTE: PUSHED THRU 72X → 153X - still couldn't resolve all of the dims, but up to 30 @ 153x

(1999 Cole & Pratt)

Observing Log

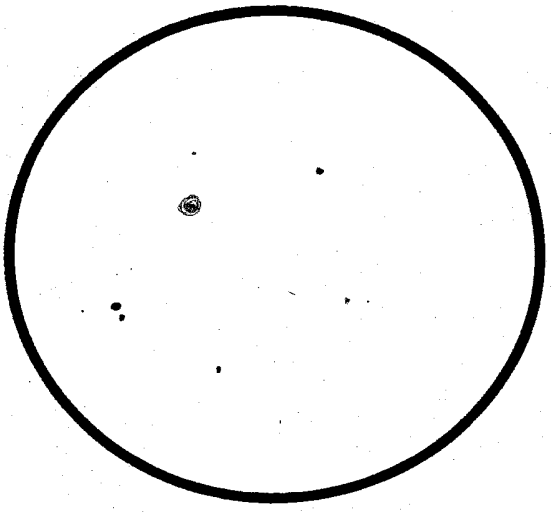
Object type: Galaxy

Object ID: NGC 584

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 23:50

Location RMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

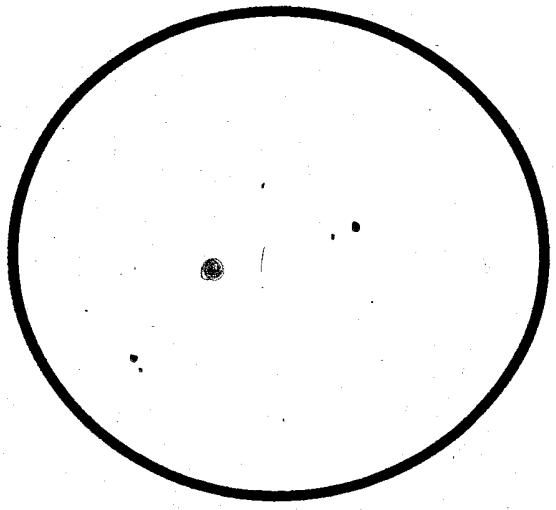
Object type: **Galaxy**

Object ID: NGC 584

Const.: CET

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/19/2

Time 0:00

Location RNCC

Seeing 8 **Transparency** 5+

Instrument BTX

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?**
- **Is a core noticeable?**
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?**
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?**

Description went back – not much more detail

(1999 Cole & Pratt)

Observing Log

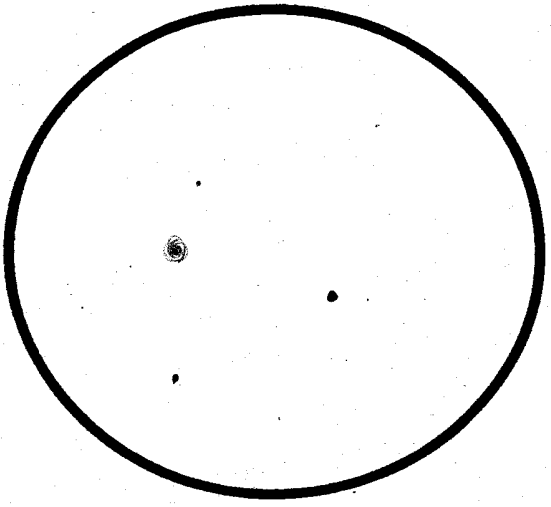
Object type: Galaxy

Object ID: NGC 596

Const.: CET

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 22:55

Location NMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core ~~compact~~ or stellar?** not too
- **Can any detail be seen between the core and the outer envelope of the object?** "Fat" nucleus - gets dimmer out to edges
- **Are the edges of the outer envelope sharp or diffuse?** Diff
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** dimmy
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 584 was in 42x field

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: M33 (NGC 598)

Const.: Tri

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 10/18/3

Time 22:15

Location RMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of dark lane & some spiral structure
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description OBVIOUS IN FINDER

SEEN (A.V.) W/NAKED EYE

(1999 Cole & Pratt)

Observing Log

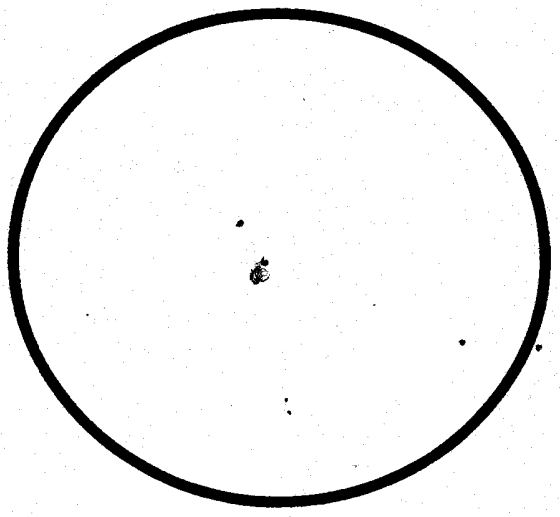
Object type: **Galaxy**

Object ID: NGC 613

Const.: Scl

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 9:25 pm CST

Location RMCC

Seeing 8+ **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** ?
- **Is the core compact or stellar?** ?
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description See next 2 sheets

(1999 Cole & Pratt)

Observing Log

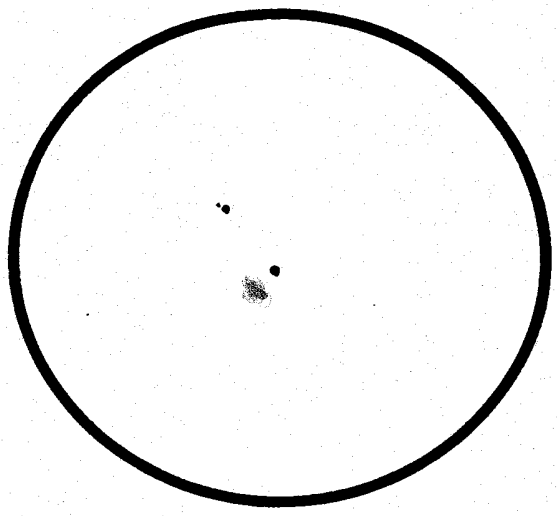
Object type: **Galaxy**

Object ID: NGC 613

Const.: Scl

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 9:28 pm CST

Location RMCC

Seeing 8+ **Transparency** 4+

Instrument ETX-125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** More elongated
- **Is a core noticeable?** Bar
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Bar showing up with halo
- **Are the edges of the outer envelope sharp (bar) or diffuse? (halo)**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Bar
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description See next

Note: field star double

(1999 Cole & Pratt)

Observing Log

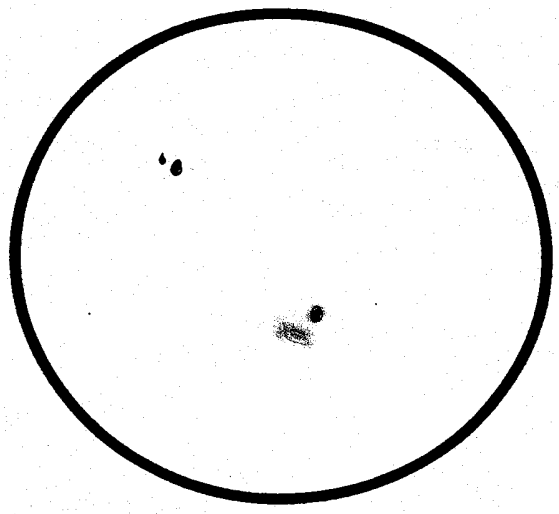
Object type: **Galaxy**

Object ID: NGC 613

Const.: Scl

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 9:32 pm CST

Location RMCC

Seeing 8+ **Transparency** 4+

Instrument ETX-125

Size 125

Eyepiece 12.4mm

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Bar only now
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** bar
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Bar
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Pretty much just the bar, at 153x!

(1999 Cole & Pratt)

Observing Log

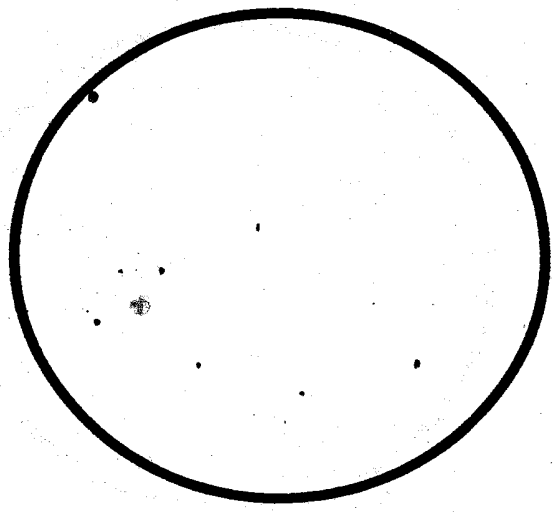
Object type: **Galaxy**

Object ID: NGC 615

Const.: CET

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/19/3

Time 0110

Location RMCC

Seeing 7+ **Transparency** 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** No
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Just seen as glow — no detail at all

(1999 Cole & Pratt)

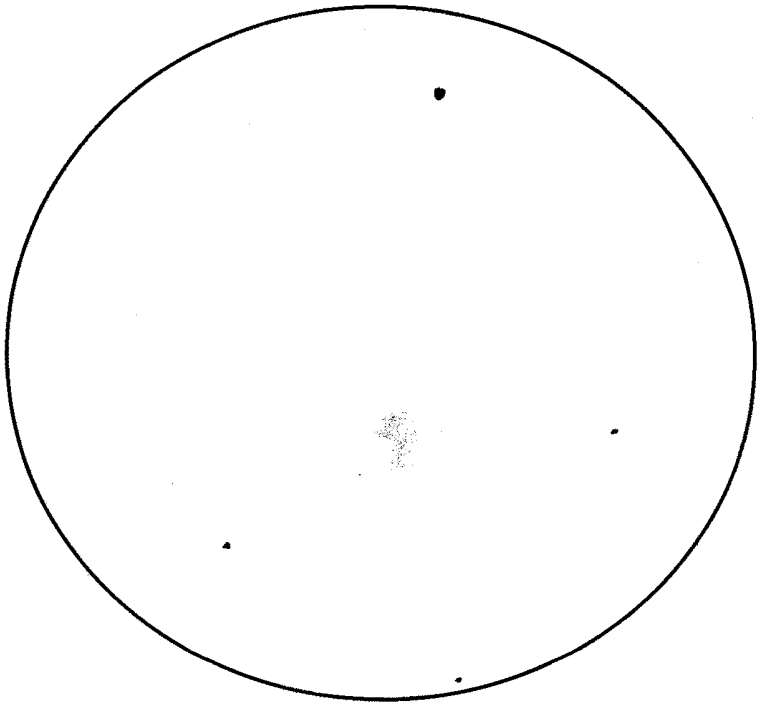
NGC 657

DATE 1/3/3 **TIME** 8:00 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT M76 **LOCATION** RMCC (HOME) _____

W/ neb filter



THAT NIGHT – LAST NIGHT BEFORE COLD ILLNESS

VERY NICE VIEW, NEB. FILTER REALLY ENHANCED IT & GAVE IT SHAPE

Observing Log

Object type: **Open Cluster**

Object ID: NGC 654

Const.: Cas **Observer** BY

RA: _____ **Dec.:** _____ **Date** 10/18/3

Mag: _____ **Size:** _____ **Time** 23:20

Location RMCC

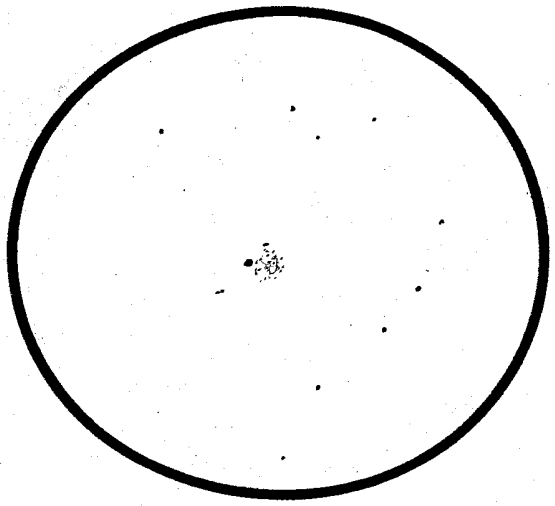
Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Bees
- **How many stars can you count in the cluster?** ~40
- **Are the stars more concentrated in any one particular area?** see lady
- **Is this cluster resolved fully or is there some background nebulosity noticed?** unresolved
- **Is there any particular area where you notice an absence of stars in this cluster?** In between two bright
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** 2, one yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

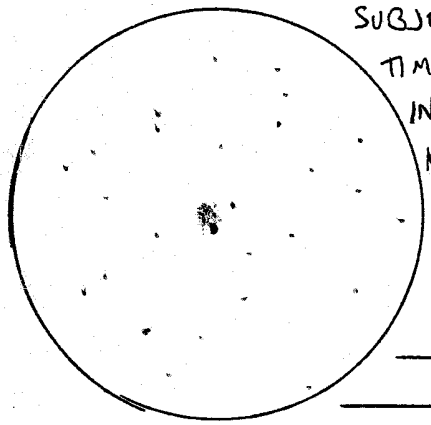
NGC 654

OBSERVATION: 10/25-26 196 cont

SEEING: CLARITY:

GENERAL NOTES: TIME: CST CDT DATE:

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X LOCATION:

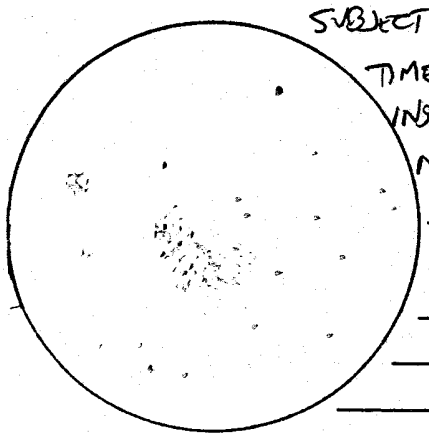


SUBJECT: NGC 654

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

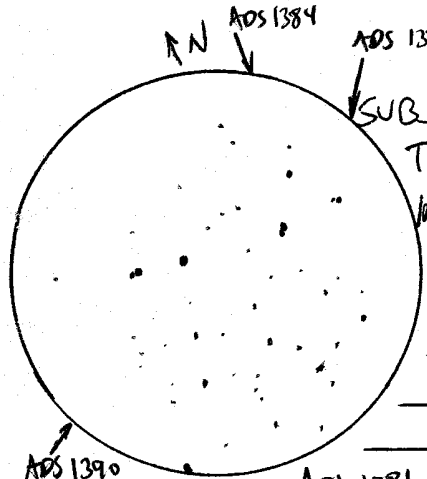


SUBJECT: NGC 663

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45X



SUBJECT: DBLS IN NGC 663

TIME: CST CDT

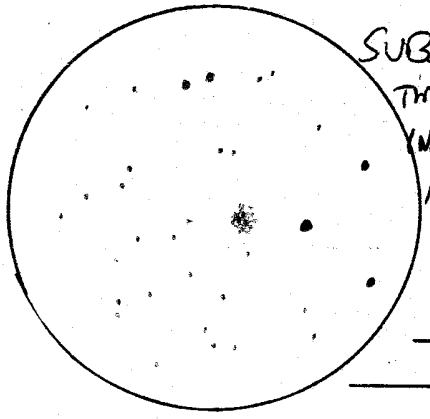
INSTRUMENT:

NOTES:

ADS 1381, 10.7, 11.2, 7".1, 38°

ADS 1390 = 9.7, 10.9, 7".6, 69°

ADS 1384, 9.4, 10.9, 9.3", 105°



SUBJECT: NGC 659

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

Observing Log

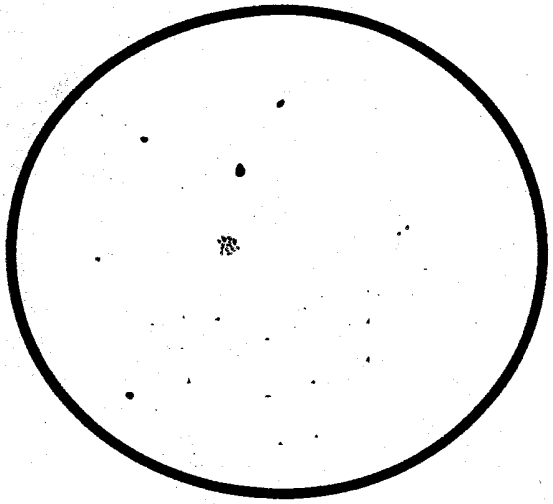
Object type: **Open Cluster**

Object ID: NGC 659

Const.: CAS

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/18/3

Time 23:22

Location RMCC

Seeing 8 **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** Yes - "under" lid of res'd 9-10 mags
- **Is this cluster resolved fully or is there some background nebulosity noticed?** unres'd
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

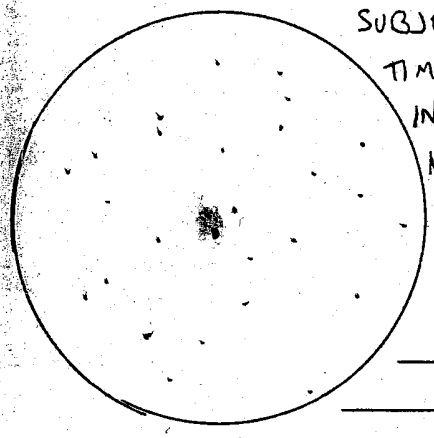
OBSERVATION RECORD

NGC 659

OBSERVATION: 10/25-26 196 cont'd SEEING: ____ CLARITY: ____

GENERAL NOTES: ____ TIME: ____ CST CDT DATE: ____

INSTRUMENT: Exc 10x50 4.5" POWER: 10X 45X 90X 220X 440X LOCATION: ____

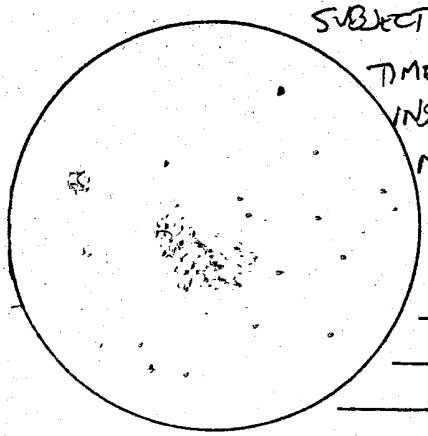


SUBJECT: NGC 659

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

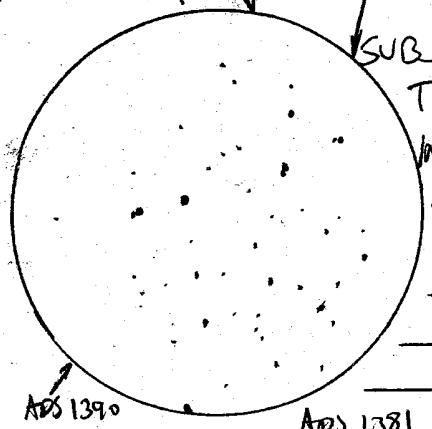


SUBJECT: NGC 663

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 45x



SUBJECT: DBLS IN NGC 663 CST

TIME: ____ CDT

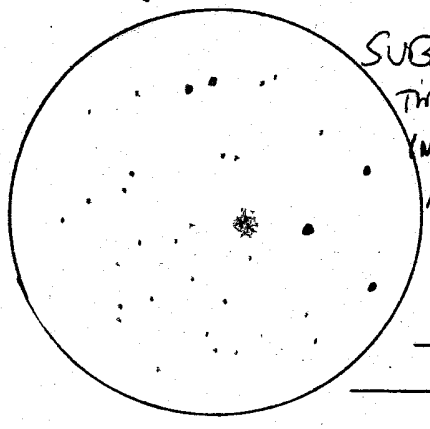
INSTRUMENT: ____

NOTES: ____

ADS 1381, 10.7, 11.2, 7".1, 38°

ADS 1390 = 9.7, 10.9, 7".6, 69°

ADS 1384, 9.4, 10.9, 9.3", 105°



SUBJECT: NGC 659

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

Observing Log

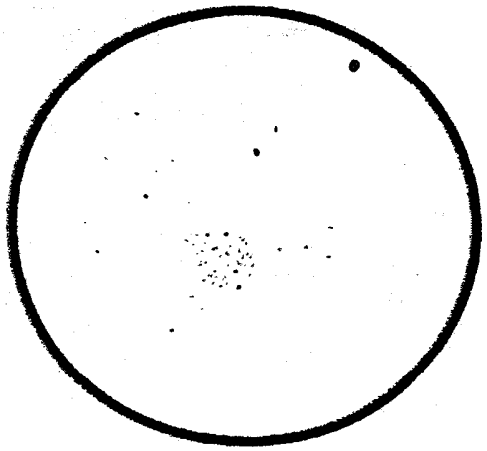
Object type: **Open Cluster**

Object ID: NGC 663

Const.: Cas

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/14/3

Time 21:20

Location Home

Seeing 8 **Transparency** 6 –

Instrument ETX125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47X

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Eagle-ish
- **How many stars can you count in the cluster?** 40
- **Are the stars more concentrated in any one particular area?** Center "box"
- **Is this cluster resolved fully or is there some background nebulosity noticed?** Very close to fully resolved
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Preat)

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

NGC 663

OBSERVATION: 10/15-26 196 cont

GENERAL NOTES: TIME: CST CDT

INSTRUMENT: Eye 10x50 4.5" POWER: 10x 45x 90x 220x 440x

SEEING: CLARITY:

DATE:

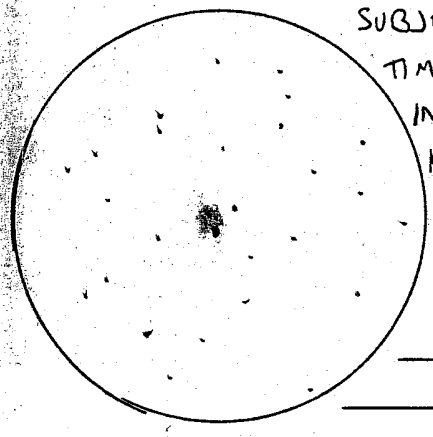
LOCATION:

SUBJECT: NGC 654

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45x



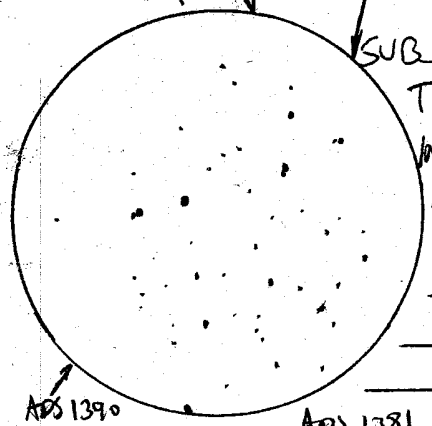
SUBJECT: NGC 663

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45x





SUBJECT: DBLS IN NGC 663 CST

TIME: CDT

INSTRUMENT:

NOTES:

ADS 1381, 10.7, 11.2, 7".1, 38°

ADS 1390 = 9.7, 10.9, 7".6, 69°

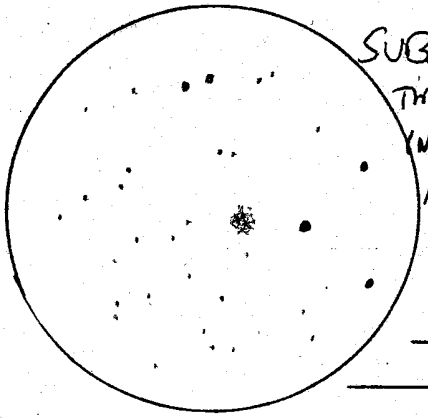
ADS 1384, 9.4, 10.9, 9.3", 105°

SUBJECT: NGC 659

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45x



Observing Log

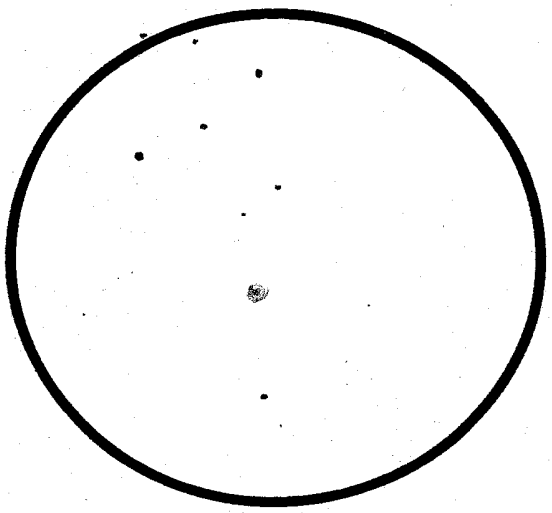
Object type: **Galaxy**

Object ID: NGC 720

Const.: CET

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/19/3

Time 0130

Location RMCC

Seeing 7 **Transparency** 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** not too
- **Can any detail be seen between the core and the outer envelope of the object?** fading
- **Are the edges of the outer envelope sharp or diffuse?** Fuzzy
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** fading
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

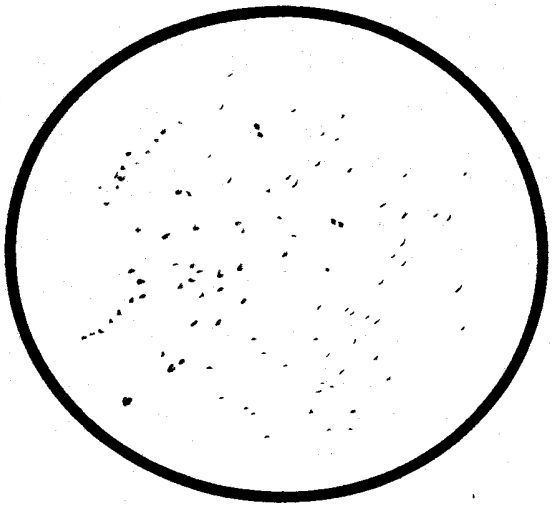
Object type: **Open Cluster**

Object ID: NGC 752

Const.: And

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 8:25 pm CST

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Clumps & doubles
- **How many stars can you count in the cluster?** >100
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** No
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

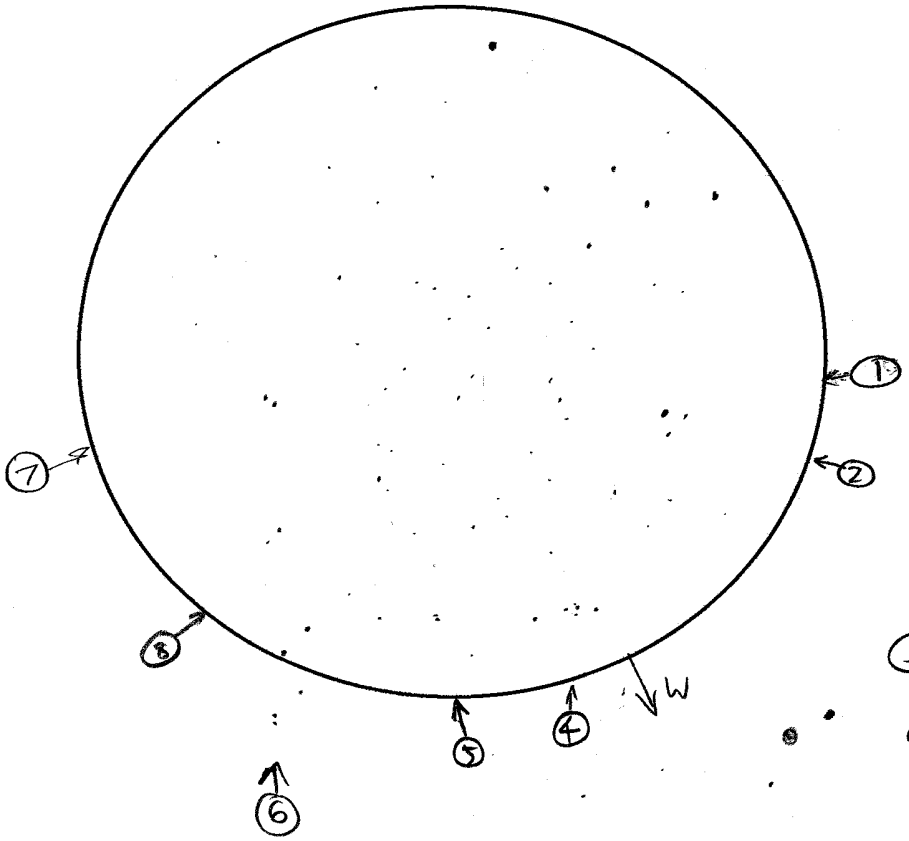
Description _____

(1999 Cole & Pratt)

DATE 11/10/2 **TIME** 1140 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 752 & its multiples **LOCATION** RMCC (HOME)



Didn't try to identify doubles in NGC - its a cluster

56 (seen last nite in binocs)

① Very noticeably red in major Δ of cluster

② Well shown in photo (see below*)

③ Yellow & rusty orange-red (see 10x50 view 11/9/2)

④ 153x confirms (Also see *)

⑤ 153x confirms

⑥ Neat

⑦ Also see * (w/⑧)

Cluster nice, but large for 73x — try 10x50's.

*Compare to photo p. 152 Burnham & chart p. 151

Observing Log

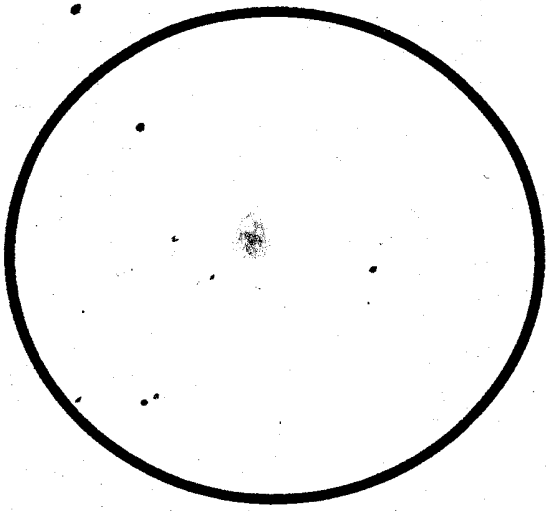
Object type: **Galaxy**

Object ID: NGC 772

Const.: AM

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/26/3

Time 8:17

Location ANCE

Seeing 8+ **Transparency** 5+

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** bit helps immensely
- **What is the overall shape?** Ellip.
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** 3 piece
- **Can any detail be seen between the core and the outer envelope of the object?** 3 piece core
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very interesting galaxy - some structure seen well w/ AV

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

196 OBSERVATION RECORD

OBSERVATION: 10/26 AM cont

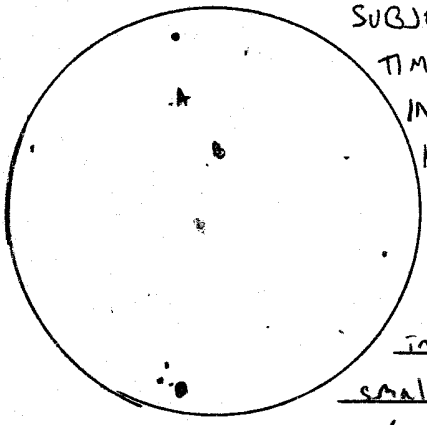
GENERAL NOTES: TIME: CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:

DATE:

LOCATION:

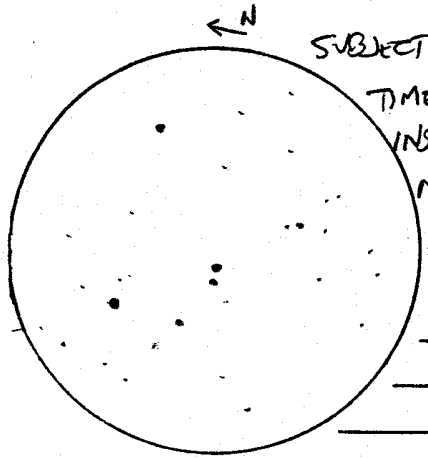


SUBJECT: NGC 772

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45X REAV & 3 MIN. CONC. 90X confirms, w/ A&B 11m-12m's in fld or just W of small cond. 12m glow. ~1'x 0.75"

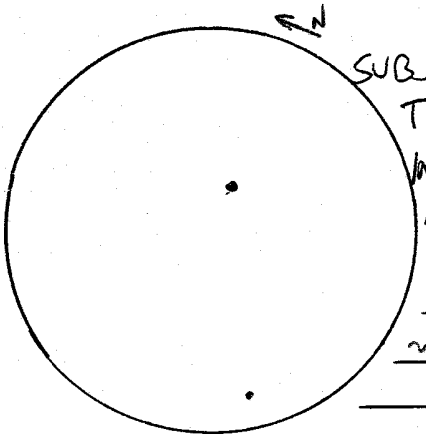


SUBJECT: OSS 1 (Cep)

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 45X 65°, 80°, ~60" prim golden.

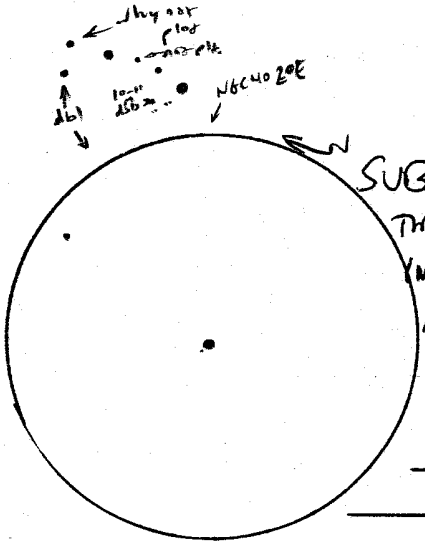


SUBJECT: β996/Cep

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 220x REAV gets Δm~5 comes to 65° & ~10", EX!



SUBJECT: unknown

TIME: CST CDT

INSTRUMENT: 4.5"

NOTES: 220x .12m w/7m prim. PA=60-70°, sep ~5"

Observing Log

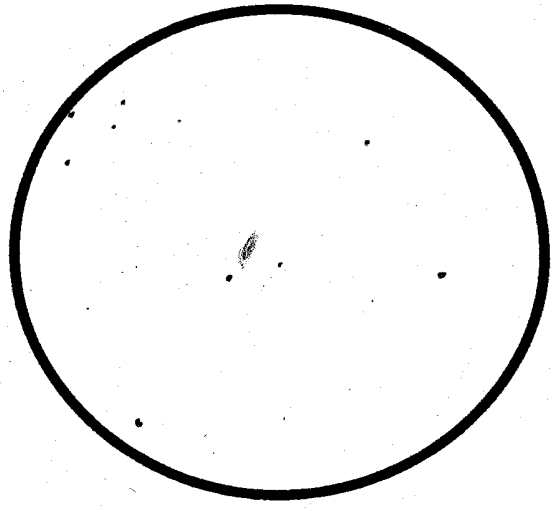
Object type: **Galaxy**

Object ID: NGC 779

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 10/19/3

Time 0:20

Location RMCC

Seeing 7 **Transparency** 5

Instrument ETX

Size 125

Eyepiece 4a

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3x1 elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

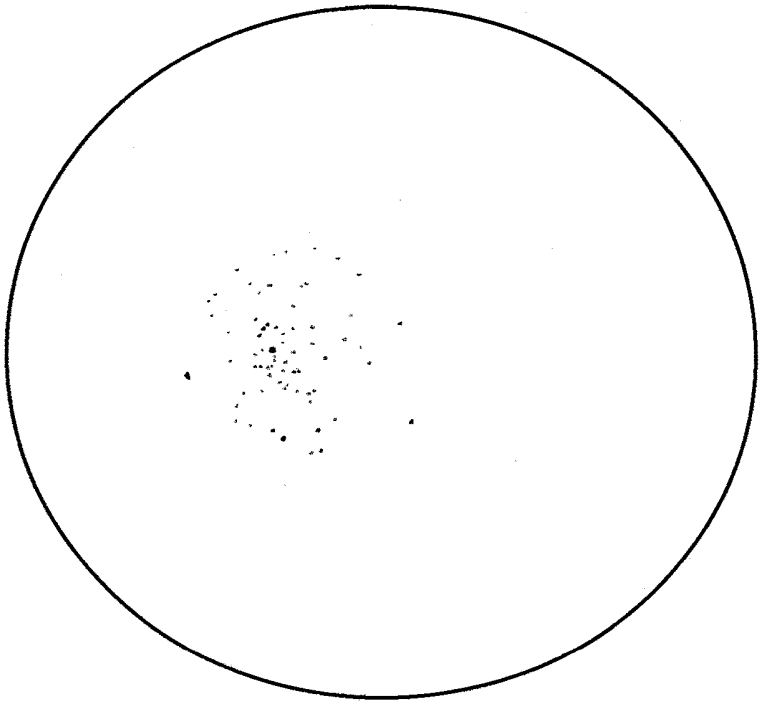
Description _____

(1999 Cole & Pratt)

DATE 1/3/3 **TIME** 8:35 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 869 **LOCATION** RMCC (HOME) _____

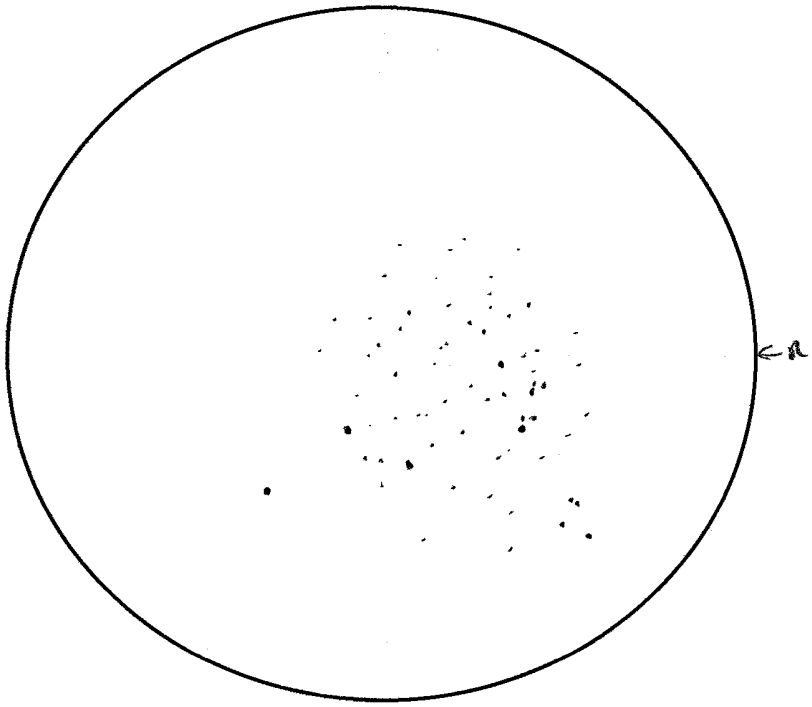


RICH & KNOTTY - GREAT VIEW

DATE 1/3/3 **TIME** 8:30 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 884 **LOCATION** RMCC (HOME) _____



WONDERFUL TO ALWAYS - FILLS FIELD; "N" = NEED STAR

_____

_____

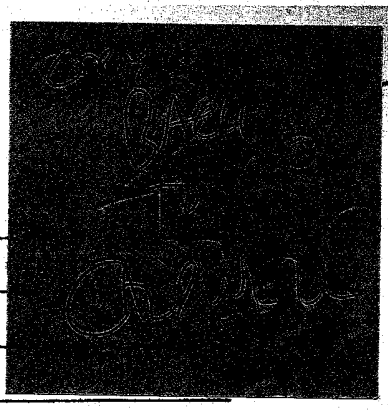
_____

_____

_____

Observing Log

Object type: **Open Cluster**



Object ID: NGC 869/884

Const.: Per

RA: _____ **Dec.:** _____

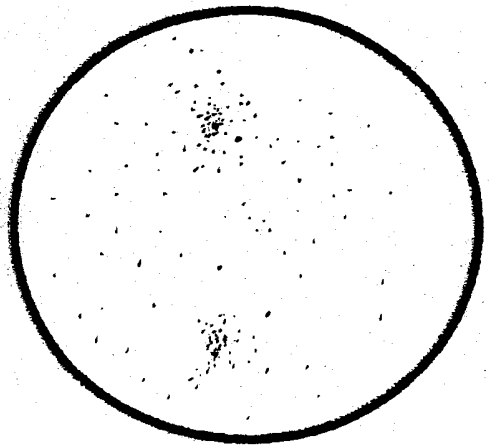
Mag: _____ **Size:** _____

Observer BY

Date 10/14/3

Time 21:50

Location Home



Seeing 8 **Transparency** 6

Instrument DX 125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** As I saw
- **How many stars can you count in the cluster?** 40 & 35
- **Are the stars more concentrated in any one particular area?** Clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** See Drawing
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** 2 in 869- yellowish
- **Are there any other deep-sky objects in the same field of view? If so, what?** Both in field

Description _____

(1999 Cole & Praut)

Observing Log

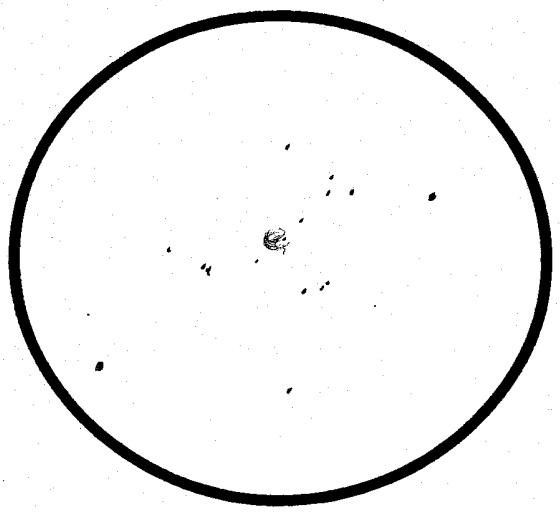
Object type: **Galaxy**

Object ID: NGC 891

Const.: And

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 8:40pm CST

Location RMCE

Seeing 9 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** pretty much
- **What is the overall shape?** Rankish glow
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** also a dim star near nuc
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Not easy to get detail – @ low power rely on a.v. to see clearly

see next

(1999 Cole & Pratt)

Observing Log

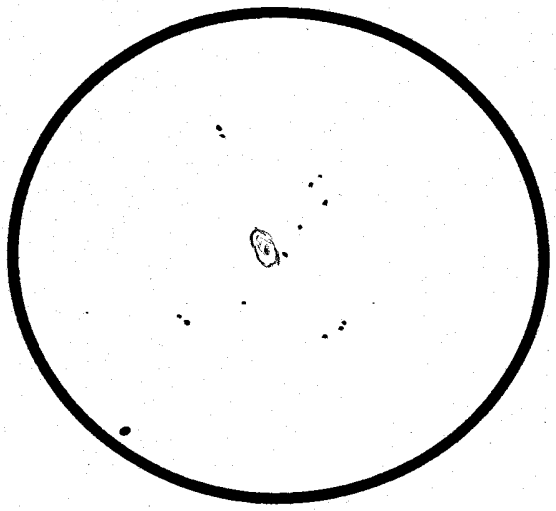
Object type: **Galaxy**

Object ID: NGC 891

Const.: And

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/19/3

Time 8:45pm CST

Location RMCE

Seeing 9 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** oval off from lon star
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Not much
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Hints
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Much easier @ 73x!

(1999 Cole & Pratt)

Observing Log

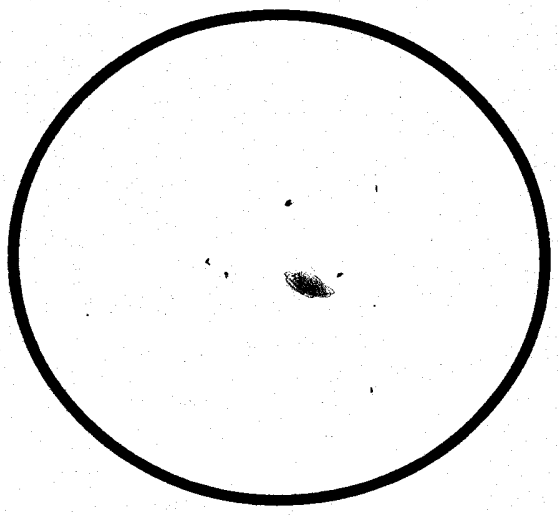
Object type: **Galaxy**

Object ID: NGC 908

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/28/3

Time 8:55 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 2x1 OVAL
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No, even
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Isolated !

(1999 Cole & Pratt)

Observing Log

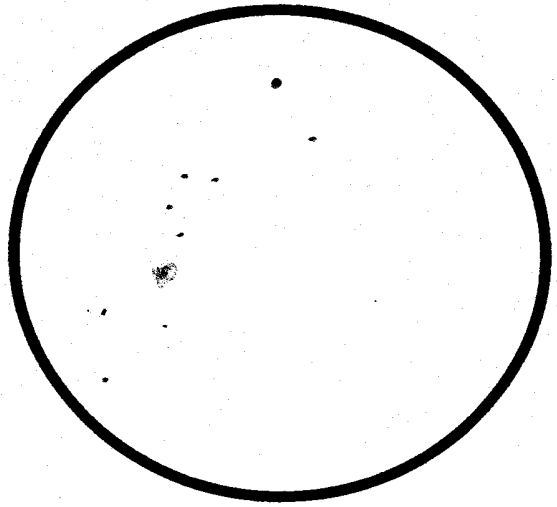
Object type: **Galaxy**

Object ID: NGC 936

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 9:10 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument RT2 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** on the edge where it is a bit
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No.
- **Are there any other deep-sky objects in the same field of view? If so, what?** Can't find NGC 941

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 936

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 11/26/3

Time 9:15 CST

Location RMCE

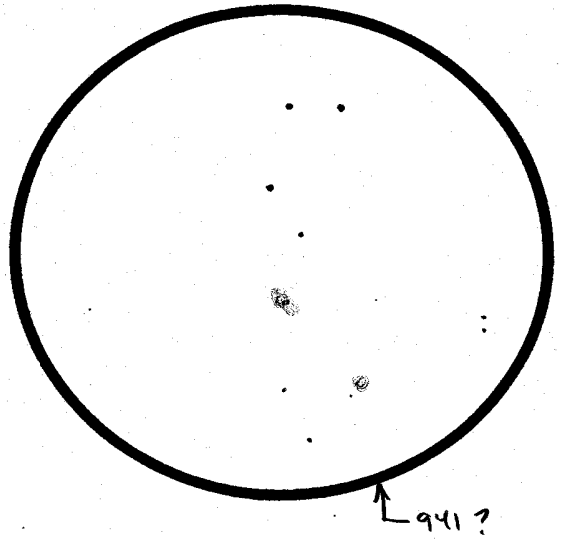
Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Slightly elong as shown
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Fill 73
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Yes Me941 glimpsed NEAR

Description Much brighter & detailed w/ 73x

(1999 Cole & Pratt)

Observing Log

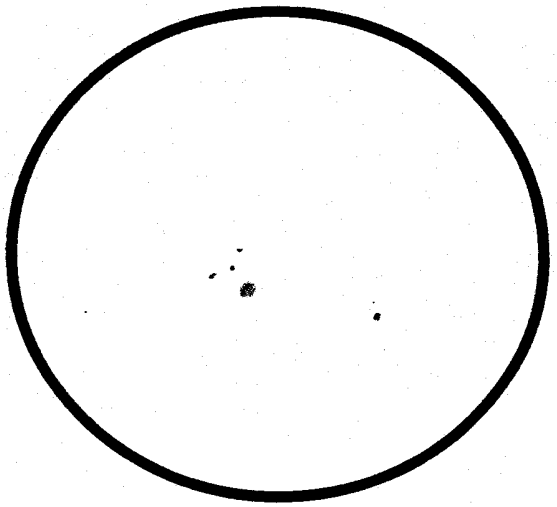
Object type: **Galaxy**

Object ID: NGC 1022

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 9:45 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?** but helps alot
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very faint - no detail

(1999 Cole & Pratt)

Observing Log

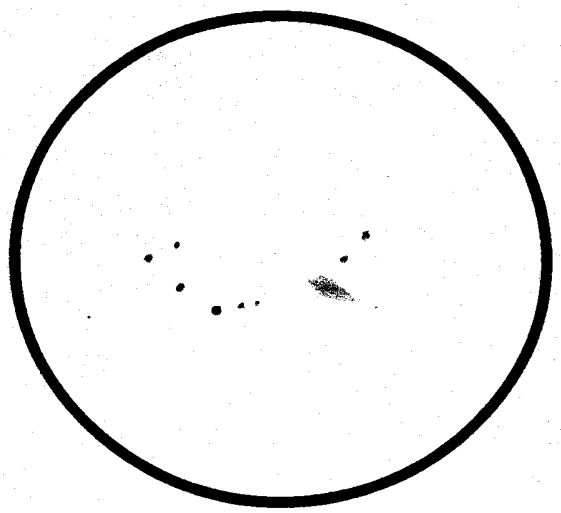
Object type: **Galaxy**

Object ID: NGC 1023

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/03

Time 10:20 CST

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** More elongated than 47x
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Even better!

(1999 Cole & Pratt)

Observing Log

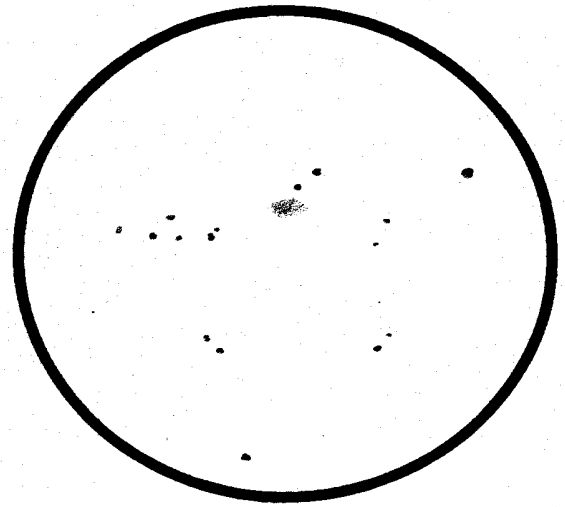
Object type: **Galaxy**

Object ID: NGC 1023

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 10:20 CST

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 46

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong glow
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** hints of mottle
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

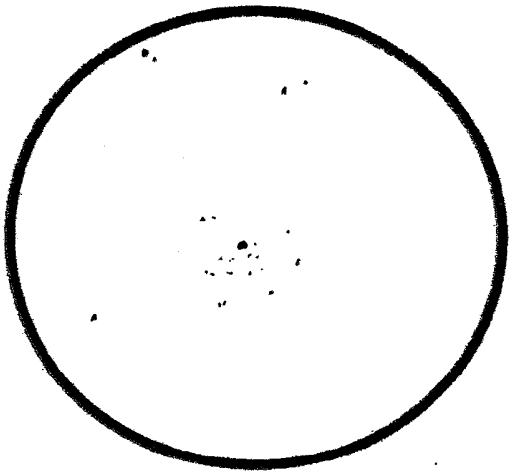
Object type: **Open Cluster**

Object ID: NGC 1027

Const.: Cas

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 7:40 CST

Location RMCC

Seeing 9 **Transparency** 4

Instrument ETX-125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Line + bright
- **How many stars can you count in the cluster?** 10
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, no
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Object ID: NGC 1052

Const.: Cet **Observer** BY

RA: _____ **Dec.:** _____ **Date** 11/26/3

Mag: _____ **Size:** _____ **Time** 10:00 CST

Location RMCC

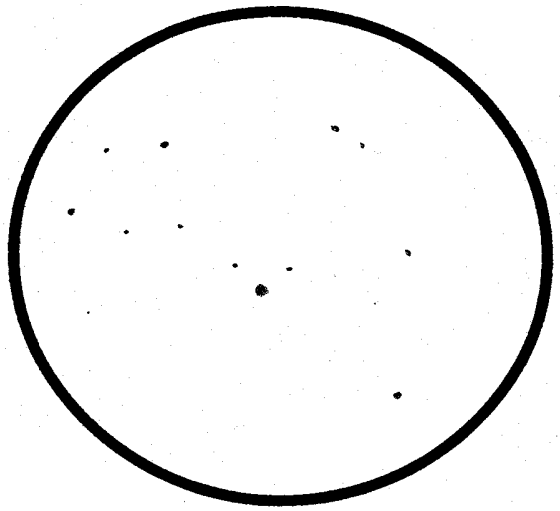
Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Not too difficult, a little small

(1999 Cole & Pratt)

Observing Log

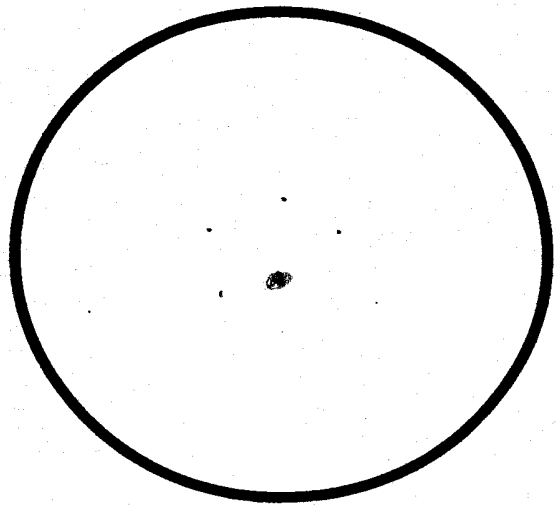
Object type: **Galaxy**

Object ID: NGC 1052

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 10:05 CST

Location RMCE

Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Still no detail but bigger & brighter - see dim llm near edge

(1999 Cole & Pratt)

Observing Log

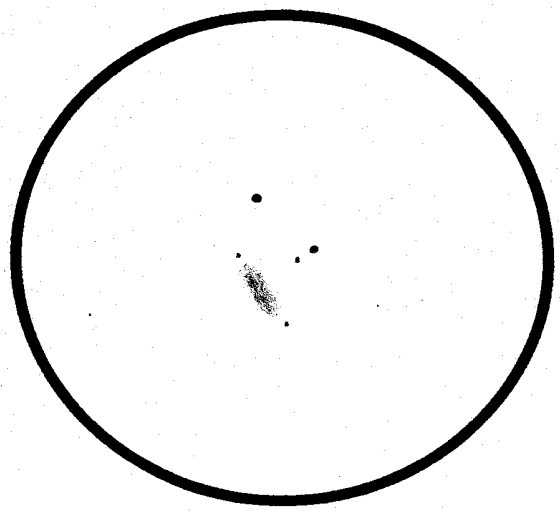
Object type: **Galaxy**

Object ID: NGC 1055

Const.: Cet

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 9:25 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3x1 ellipse
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Obvious even in 47x, just can't pin down details

(1999 Cole & Pratt)

Observing Log

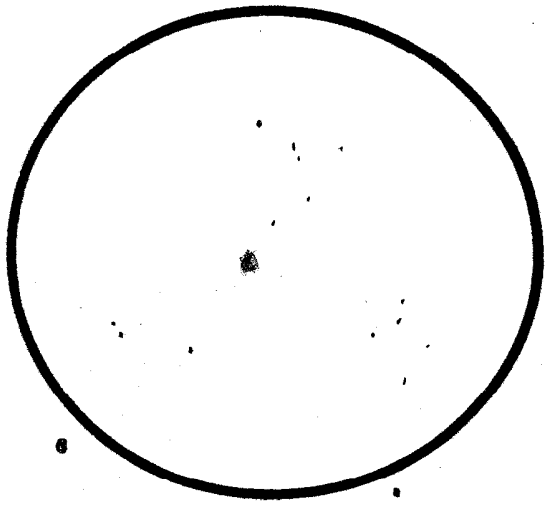
Object type: **Galaxy**

Object ID: NGC 1084

Const.: ERI

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/19/3

Time 9:00 CST

Location RMCC

Seeing 8 **Transparency** 5+

Instrument BTN25

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** round (elliptical)
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description see 73x view next

(1999 Cole & Pratt)

Observing Log

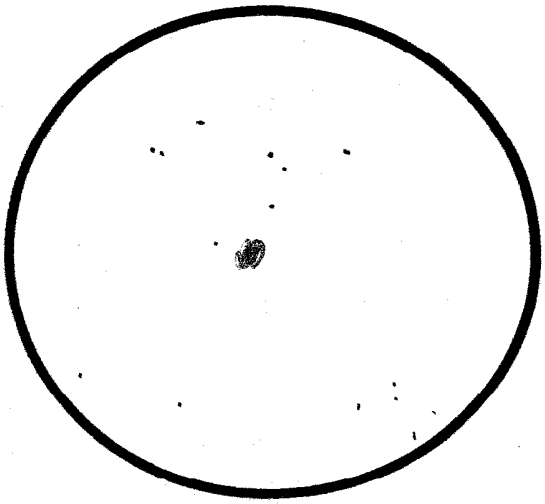
Object type: **Galaxy**

Object ID: NGC 1084

Const.: Eri

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/19/3

Time 9:05 CST

Location NMCC

Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** None

Description No more detail but brighter, larger

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 1245

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 11/26/3

Time 7:45 CST

Location RMCC

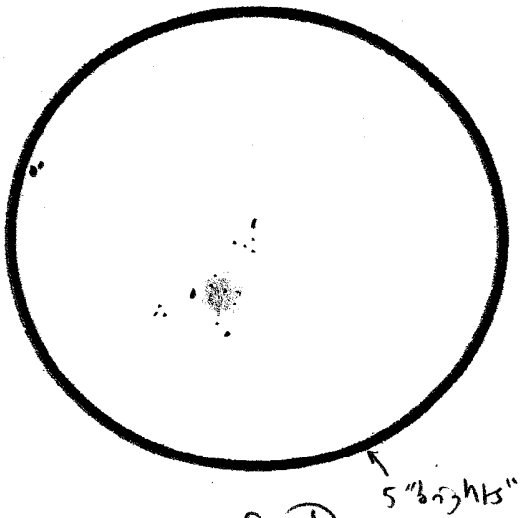
Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?** fairly
- **What is the overall shape of the object?** Oval
- **How many stars can you count in the cluster?** Fades to fuzz, maybe 50.5 stuck out as noted by Herschel grade
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

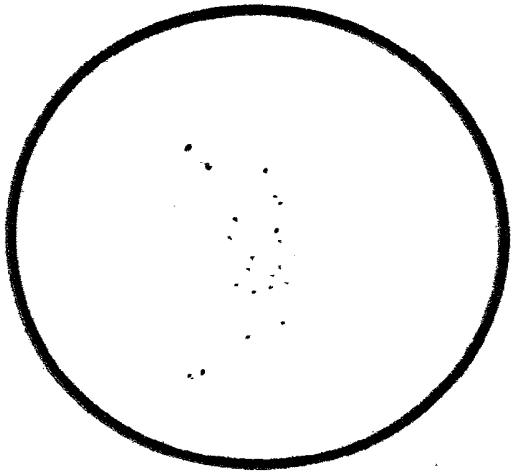
Object type: **Open Cluster**

Object ID: NGC 1342

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/30/3

Time 1:20 CST

Location Home

Seeing 7 **Transparency** 4

Instrument 8TX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be (easily) distinguished from the background stars?**
- **What is the overall shape of the object?** Loose
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved (fully) or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Plan.

(1999 Cole & Pratt)

Observing Log

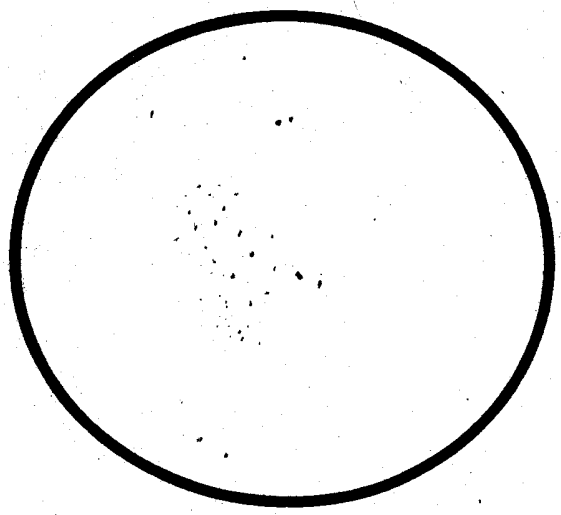
Object type: **Open Cluster**

Object ID: NGC 1342

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/21/3

Time 10:45 CST

Location Home

Seeing 5 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** clumpy blow
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

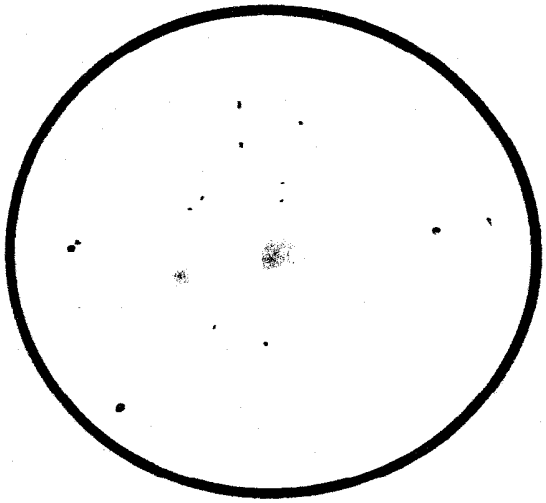
1407 = Herschel I
1400 = Herschel II

Object ID: NGC 1400/1407

Const.: Eri

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/19/3

Time 9:15 CST

Location RMCC

Seeing 8+ **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?** BOTH!
- **What is the overall shape?** Round (both)
- **Is a core noticeable?** Yes (both)
- **Is the core compact or stellar?** both
- **Can any detail be seen between the core and the outer envelope of the object?** Slight texture to NGC 1407
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description 1407 about 2/3 BIGGER, 2 MAGS BRITER

(1999 Cole & Pratt)

Observing Log

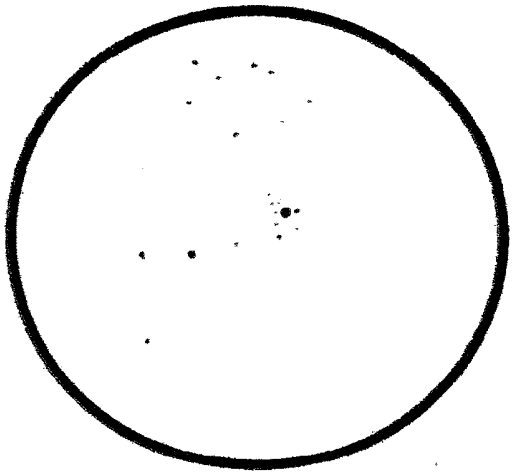
Object type: **Open Cluster**

Object ID: NGC 1444

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 7:50 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this cluster be easily distinguished from the background stars?** No
- **What is the overall shape of the object?** Bees
- **How many stars can you count in the cluster?** 8
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description BORING!

(1999 Cole & Pratt)

Observing Log

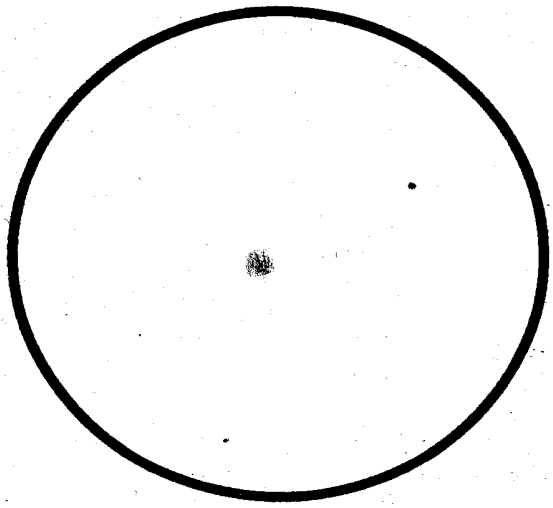
Object type: **Planetary Nebula**

Object ID: NGC 1501

Const.: Cam

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/13

Time 8:10 CST

Location Nmce

Seeing 8 **Transparency** 4

Instrument ETX-125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

+ N-b filter

- **What is the overall shape?** Round
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** Blue green gray
- **Is it ~~disk-shaped~~ or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?**
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Beautiful, easy, c.s. seen(?) Easy to find, identified immediately @ 47x

(1999 Cole & Pratt)

Observing Log

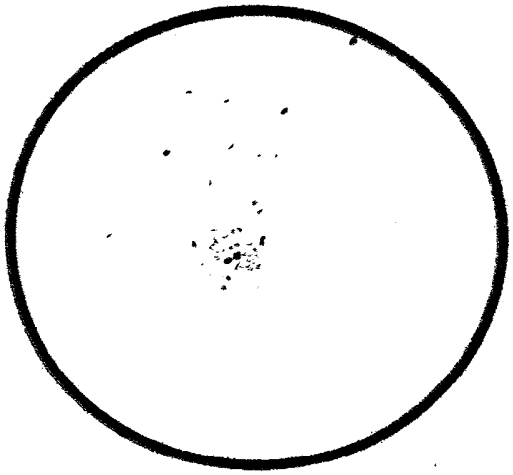
Object type: **Open Cluster**

Object ID: NGC 1502

Const.: Cam

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/26/3

Time 8:05 CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX-125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** T
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** T
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes Bright white pair
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

12:35-

DATE 11/1/02 **TIME** 12:35 (CST) CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ~~114mm~~ (125mm) **10x50 POWER** 36X 72X 108X 144X 216X 228X

OBJECT Cam **DESCRIPTION** (73X) (1,2,4) (153X) (3)

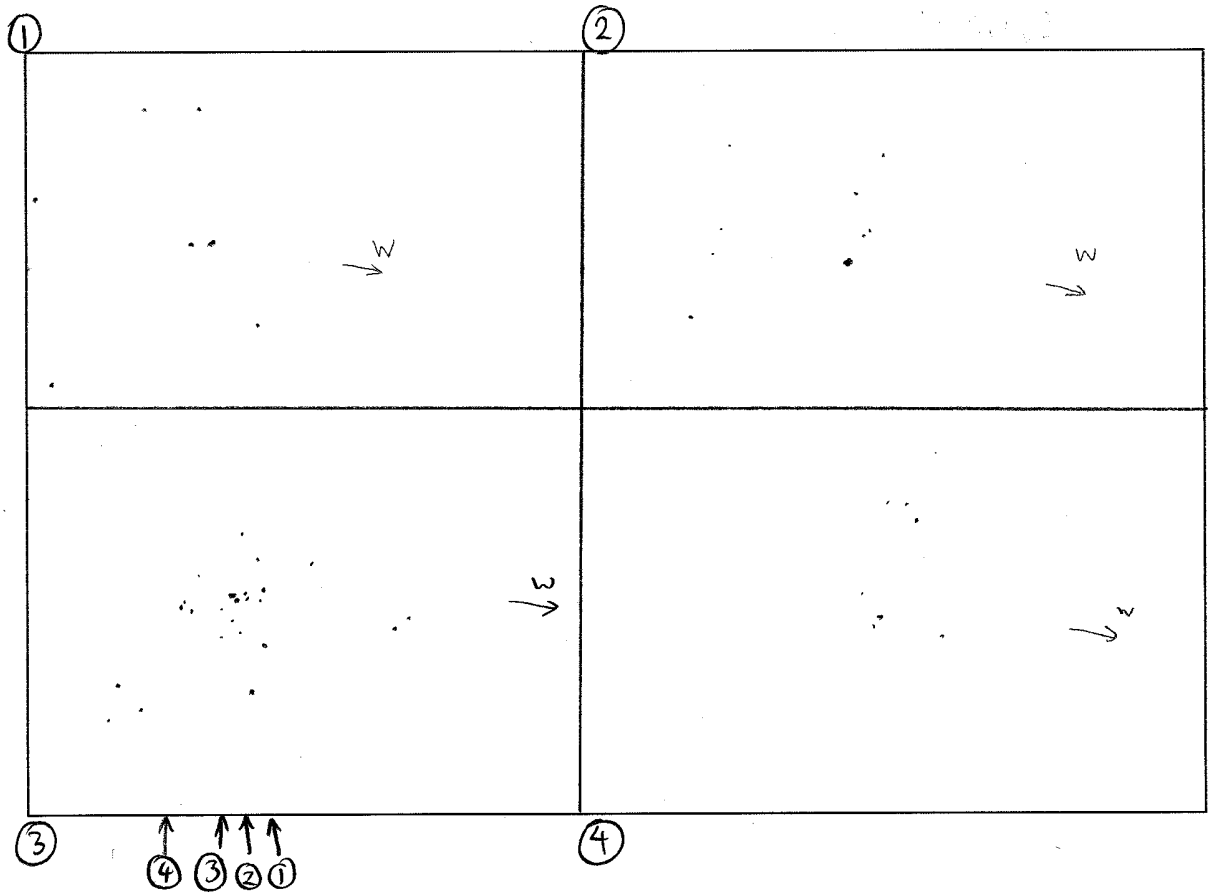
(1) OΣ36 - neat easy pair

(2) Unknown 10m pair just near 6m, 1° SW of OΣ36

(3) NGC 1502 (153x) after following Kemble's Cascade (Ast Calendar 2002)
Beautiful cluster stream with doubles, 3 pairs in center

(4) OΣ54 wide but nice
7.5 2 8.5 in good field

(1) = ?
(2) Σ484
(3) Σ485 (A-B only)
(4) = ?



Observing Log

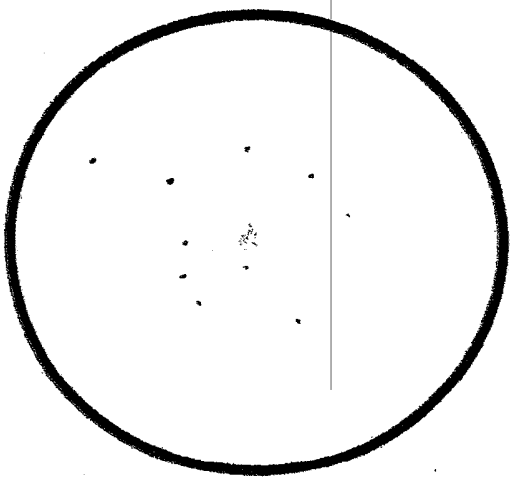
Object type: **Open Cluster**

Object ID: M-C 1513

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/30/13

Time 1:40 CST

Location Home

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 23

- **Can this cluster be easily distinguished from the background stars?** Noticeably
- **What is the overall shape of the object?** Roundish
- **How many stars can you count in the cluster?** Resolved 4 + Fuzz
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Dry in county

(1999 Cole & Pratt)

Observing Log

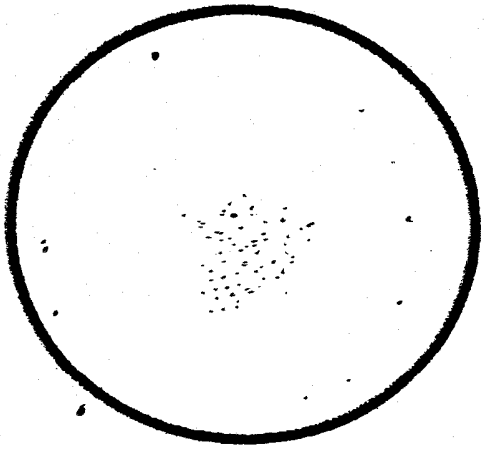
Object type: **Open Cluster**

Object ID: NGC 1528

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/17/3

Time 11:15 CDT

Location RMCE

Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125 mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Rich
- **How many stars can you count in the cluster?** 40
- **Are the stars more concentrated in any one particular area?** Not too much
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** outline of head
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, one or two yellows
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Planetary Nebula**

OLDER VIEW

Object ID: NGC 1535

Const.: Eri

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 12/19/3

Time 9:40 CST

Location RNCE

Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

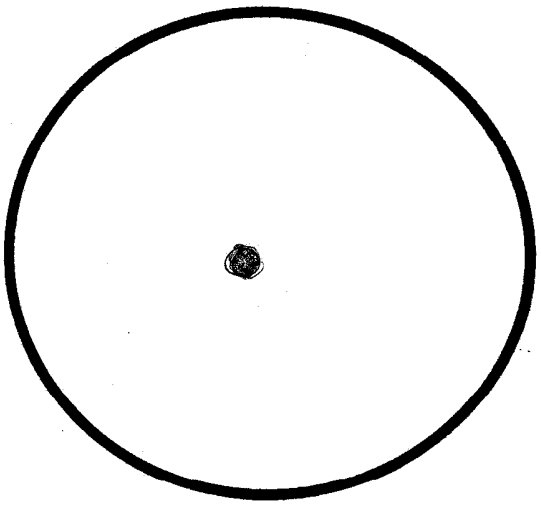
Eyepiece 6mm

Field of view _____ **Power** 316x

This view w/o filter

Neb filter - no more detail than w/o

No C.S.



- **What is the overall shape?** Round-ish
- **Is this planetary easy or difficult to identify in your field?** but very small in 47x
- **What is the color of this planetary?** Greenish-pale
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?**
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Some general wisps & mottle - very neat w/ high power

(1999 Cole & Pratt)

Observing Log

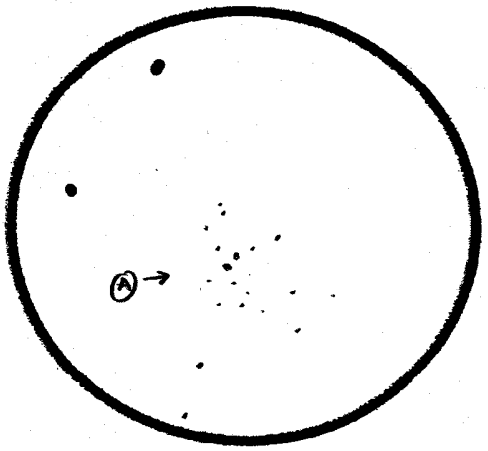
Object type: **Open Cluster**

Object ID: NGC 1545

Const.: Per

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 7/12/3

Time 11:10 CDT

Location RMCC

Seeing 8 **Transparency** 6

Instrument ETX-125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this cluster be ~~easily~~ distinguished from the background stars?**
- **What is the overall shape of the object?** Scatter
- **How many stars can you count in the cluster?** 10
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, A = Yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Preuit)

Observing Log

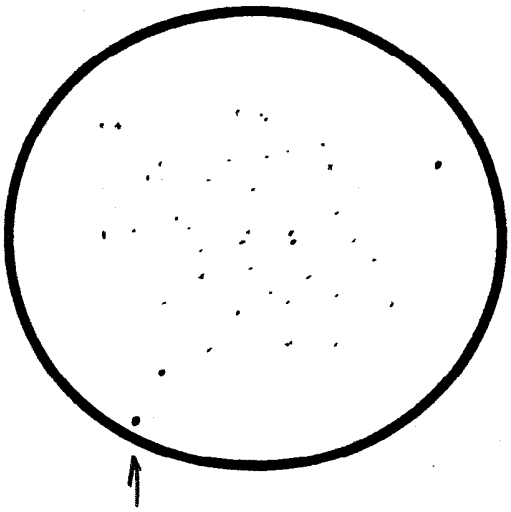
Object type: **Open Cluster**

Object ID: NGC 1647

Const.: Tau

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/16/13

Time 9:15 CST

Location Home

Seeing 9 **Transparency** 5-

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Loose
- **How many stars can you count in the cluster?** 45
- **Are the stars more concentrated in any one particular area?** Clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No.
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** → 2 is deep yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

Observing Log

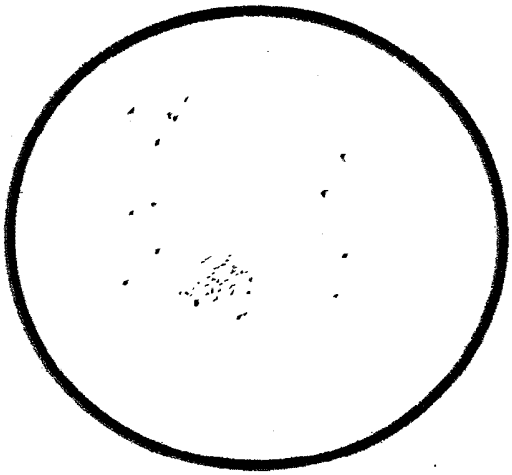
Object type: **Open Cluster**

Object ID: NGC 1664

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 7:00 CST

Location RMCE

Seeing 8 **Transparency** 6

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** AOF too Very rich area
- **What is the overall shape of the object?** Fan
- **How many stars can you count in the cluster?** ~30
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

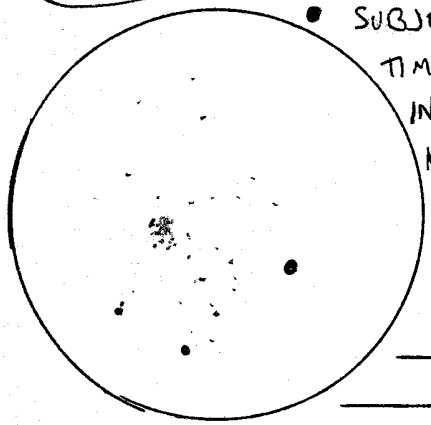
(1999 Cole & Pratt)

BRAD YOUNG

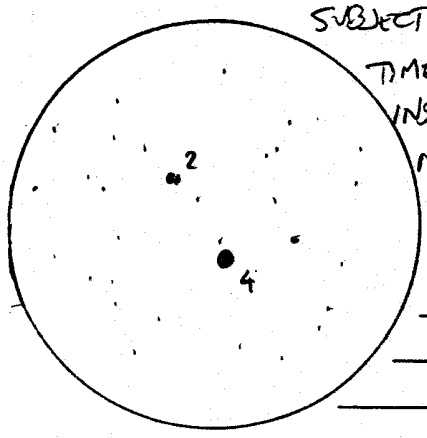
TULSA, OKLAHOMA OBSERVATION RECORD

OBSERVATION: GENERAL CM & PM SEEING: II CLARITY: I
GENERAL NOTES: VERY COLD TIME: 5:10-5:[illegible] CST COT DATE: 11/23/95
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 70X 220X 440X LOCATION: MANN

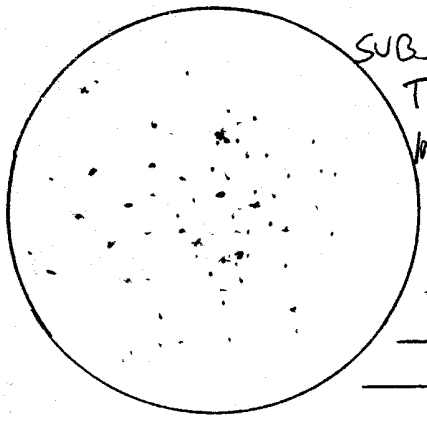
10/22/95



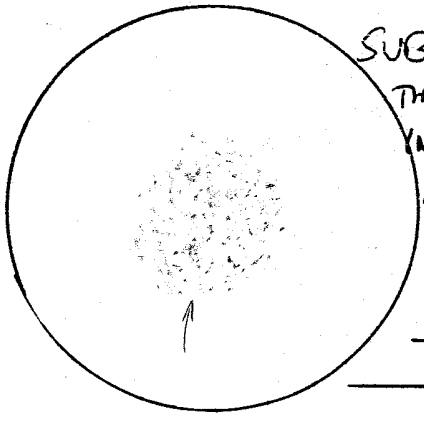
SUBJECT: NGC 1664
TIME: CST COT
INSTRUMENT:
NOTES:



SUBJECT: 2 PM CST
TIME: 5:10 COT
INSTRUMENT: 45"
NOTES: 45X
PA right ?
I forgot.



SUBJECT: M47
TIME: 5:12 CST COT
INSTRUMENT: 4.5
NOTES: 45X



SUBJECT: M46
TIME: 5:20 CST COT
INSTRUMENT: 4.5"
NOTES: 45X
NGC 2438
too

Observing Log

Object type: **Open Cluster**

Object ID: NGC 1750 (w/1746 & 1758)

Const.: TAU **Observer** BY

RA: _____ **Dec.:** _____ **Date** 12/23/3

Mag: _____ **Size:** _____ **Time** 11:00 CST

Location Home

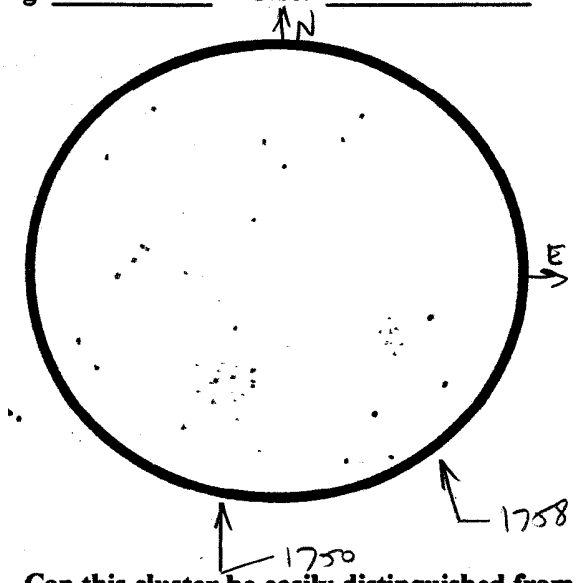
Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x



- **Can this cluster be easily distinguished from the background stars?** NGC 1746 envelops— need power
- **What is the overall shape of the object?** NGC 1746 large & scattered
- **How many stars can you count in the cluster?** NGC 1746 ~50
- **Are the stars more concentrated in any one particular area?** At NGC 1750 & 1758 — see next page
- **Is this cluster resolved fully or is there some background nebulosity noticed?** NGC 1746 others not
- **Is there any particular area where you notice an absence of stars in this cluster?** NE "corner"
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 1750 & 1758 see next page

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 1750/1758 within 1746

Const.: TAU **Observer** BY

RA: _____ **Dec.:** _____ **Date** 12/23/3

Mag: _____ **Size:** _____ **Time** 11:10 CST

Location Home

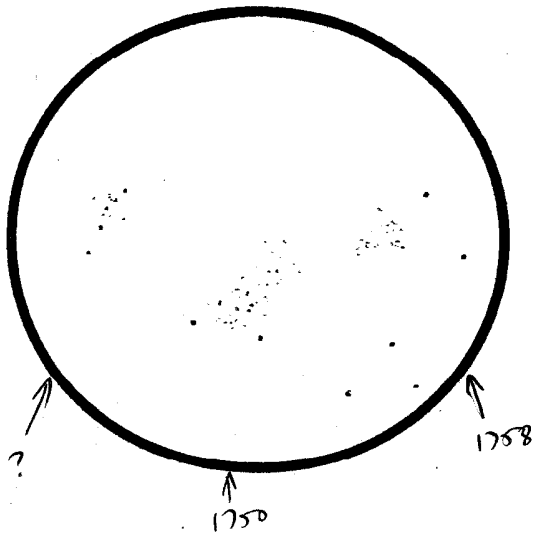
Seeing 8 **Transparency** 5+

Instrument ~~ETX~~ 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X



- **Can this cluster be easily distinguished from the background stars?** Moderately
- **What is the overall shape of the object?** 1750 – upside down Y 1758 – sideways V
- **How many stars can you count in the cluster?** 1750 – 10+ unres'd glow 1758 – 8 or 10 + unres'd glow
- **Are the stars more concentrated in any one particular area?** See dwg
- **Is this cluster resolved fully or is there some background nebulosity noticed?** both
- **Is there any particular area where you notice an absence of stars in this cluster?** See dwg
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 1746 surrounds (not fully shown)

Description A line of 4 or 5 + dims at (?→) also noticed

(1999 Cole & Pratt)

Observing Log

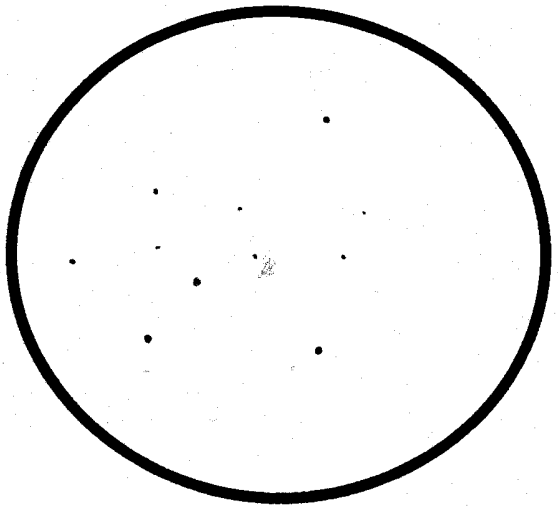
Object type: **Nebula**

Object ID: NGC 1788

Const.: Ori

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/23/3

Time 11:15 CST

Location Home

Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

w/ N.F. best view

47x - no 73x no n.f. - ok w/ar only

153x too dim

- **Can this nebula be seen with direct vision, or is averted vision required?** Much preferred
- **Is there an overall shape of the object or is it simply irregular?** Oval
- **Is any part of the outer edge of the nebula sharply defined?** No
- **Is any part of the nebula brighter or more concentrated?** No
- **Is there any particular area where you notice an absence of stars in this cluster?** N/A
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** No
- **Is there an open cluster nearby or involved or any obvious stars involved with this nebula?** Near 8m
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** Narrowband filter but med. power
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very in country - but I saw it in downtown Tulsa!

WOW - see attached comment

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

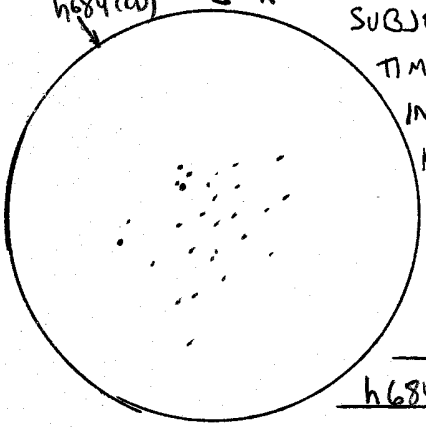
OBSERVATION RECORD

NGC 1788

OBSERVATION: 10/25-26/96 cont SEEING: ____ CLARITY: ____

GENERAL NOTES: ____ TIME: ____ CST CDT DATE: ____

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 450X LOCATION: ____



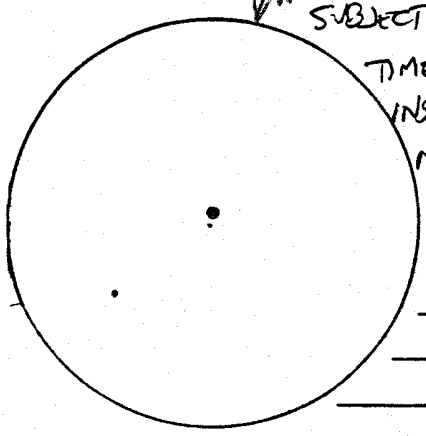
SUBJECT: NGC 1662

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X

h684CO = 9.6, 11.3, 11", 307°

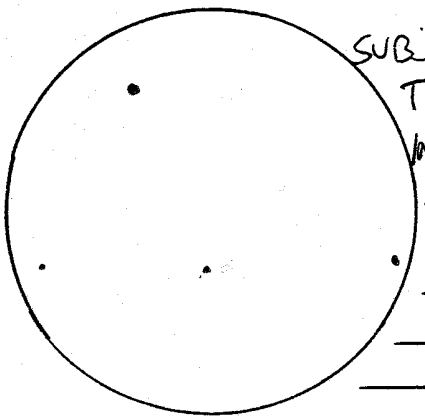


SUBJECT: 66 Eri

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

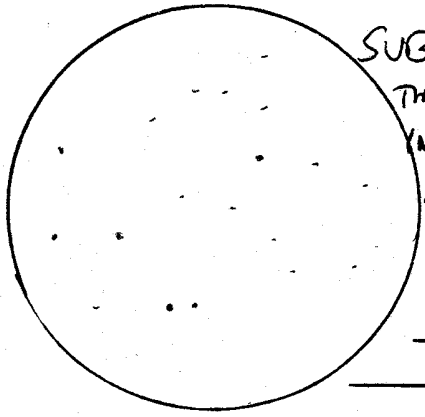


SUBJECT: NGC 1788

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X



SUBJECT: NGC 1999

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X

Observing Log

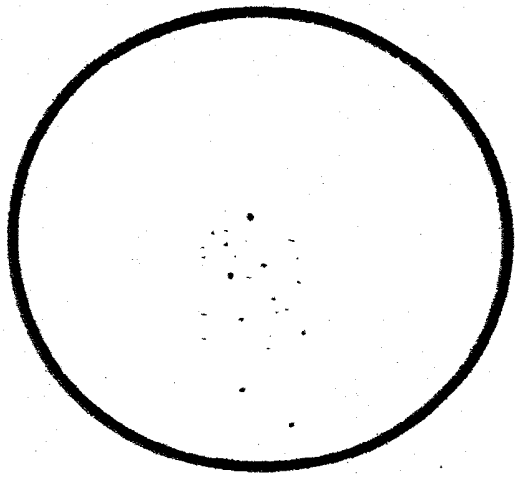
Object type: **Open Cluster**

Object ID: NGC 1817

Const.: TAU

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/27/3

Time 11:20 CST

Location Home

Seeing 9 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this cluster be easily distinguished from the background stars?** Not really
- **What is the overall shape of the object?** Loose
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** As shown 8m - 9m snap
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 1807 to left

Description 47x no contrast to see faints

(1999 Cole & Pratt)

Observing Log

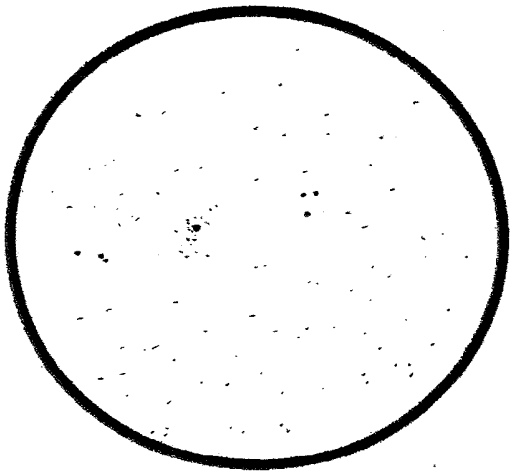
Object type: **Open Cluster**

Object ID: NGC 1857

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 7:10 CST

Location NMCC

Seeing 8 **Transparency** 6

Instrument ETX

Size 125

Eyepiece 26

Field of view _____ **Power** 73

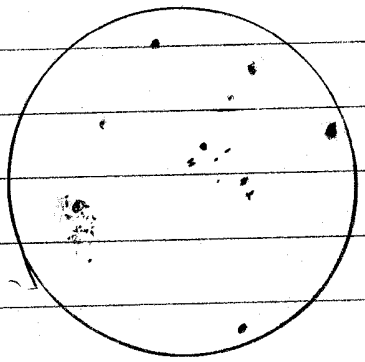
- **Can this cluster be easily distinguished from the background stars?** Not
- **What is the overall shape of the object?** bees around star
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** Around 8m
- **Is this cluster resolved fully or is there some background nebulosity noticed?** very little
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes 8m is yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

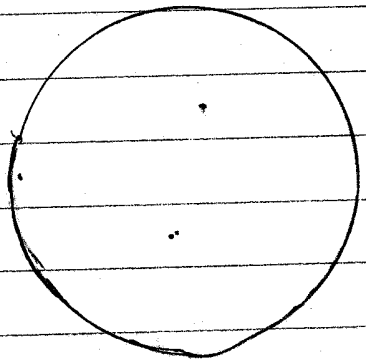
8/3-4/97

NGC 1857 72x



1857

DBL PST ½°W of UMa 72x



God knows I tried!

Observing Log

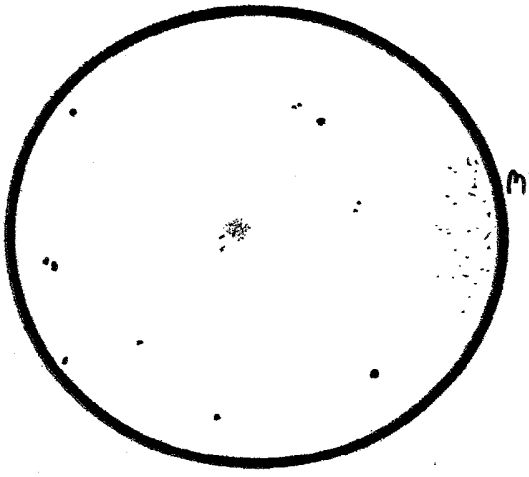
Object type: **Open Cluster**

Object ID: NGC 1907

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 7:20 CST

Location RMCC

Seeing 8 **Transparency** 6

Instrument ~~ETX~~ 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** Mostly unresolved
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** M38 on edge of field

Description LOOKED AT M38 ON WAY OF COURSE-
AWESOME AS ALWAYS
SEE 73x VIEW NEXT SHEET

(1999 Cole & Pratt)

Observing Log

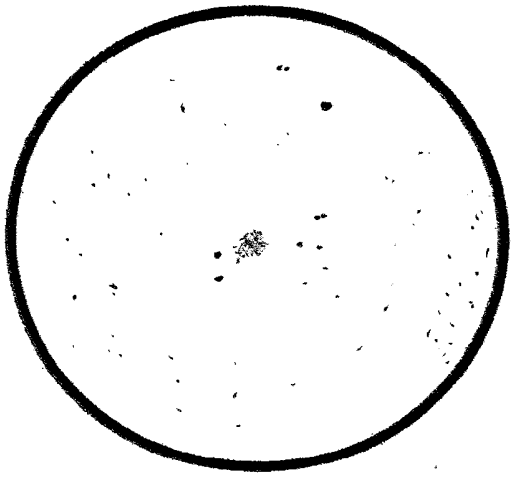
Object type: **Open Cluster**

Object ID: NGC 1907

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 7:25

Location RMCC

Seeing 8 **Transparency** 6

Instrument ETX 125

Size 126

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this cluster be easily distinguished from the background stars?** & from edges of M38
- **What is the overall shape of the object?** ROUND
- **How many stars can you count in the cluster?** ~20 RESOLVED
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** MORE, IT SEEMS IN 73X, SINCE BRIGHTER
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** NO
- **Are there any other deep-sky objects in the same field of view? If so, what?** M38 EDGES TO NORTH

Description 2 NICE OBJS NEARBY

(1999 Cole & Pratt)

LOCATION: MC'S

DATE: 2/1-2/95 TIMES: 11:30pm-7:25am

DESCRIPTION: WAY NOT 8 BALL

NGC 1907

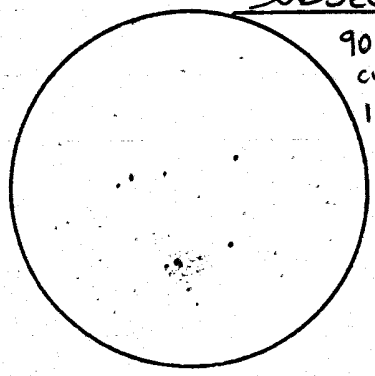
C: I ~~II~~ ~~III~~ IV V

S: I ~~II~~ III IV V

I: EYE 10X50 4.5" OTHER

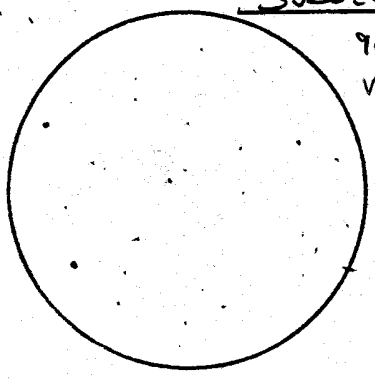
P: 0X 10X 45X OPTIONAL 90X 220X

SUBJECT: NGC 2169



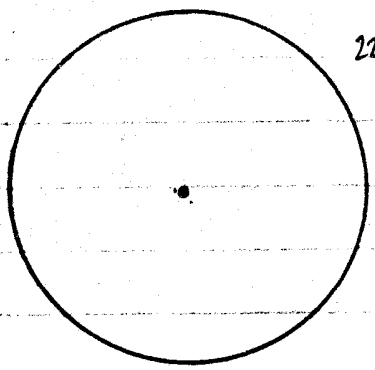
90X 11:35pm
CLOSE DBL IN CENTER
IS ADS 4728 AB
7.4+8.0, 2".5, 109°
AROUND 10 STARS IN
MAIN BUNCH

SUBJECT: NGC 2194



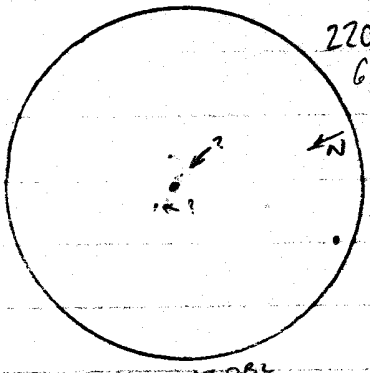
90X 11:45pm
VERY DIM SMALL
GLOW NW OF 11m

SUBJECT: 6m dbl 1'2°E ~~[illegible]~~



220X 11:50pm 1ST
N
AS

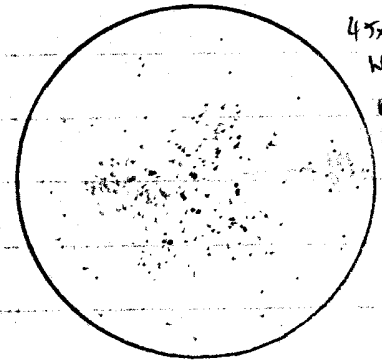
SUBJECT: NO NAME (ALLUDED PLOT) DBL



220X ½°SW of "plt dbl" near
6h40+21°
8.5m, 11m @ 255°, 11m @
30° (w/12m @ 95°?),
12m @ 210° (?)

← PLT AS DBL

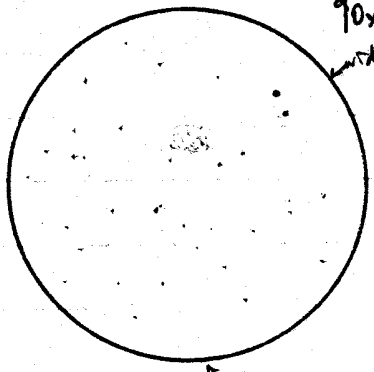
SUBJECT: M38



45X 12:35pm REAV
West side (esp. NW) seems
richer than I remember

SUBJECT: NGC 1907

90X FAINT BUT COOL
wide pair mentioned



h699
10.4+11.6
9".7
216°

Observing Log

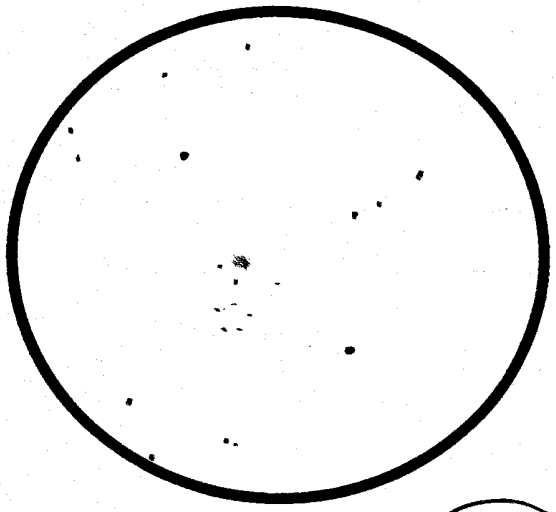
Object type: **Nebula**

Object ID: NGC 1931

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 7:45 CST

Location NMCC

Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** Star-like w/small "tail"
- **Is any part of the outer edge of the nebula sharply defined?**
- **Is any part of the nebula brighter or more concentrated?** No
- **Is there any particular area where you notice an absence of stars in this cluster?** N/A
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** No
- **Is there an open cluster nearby or involved or any obvious stars involved with this nebula?** Looks like a star
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description See BX view next sheet

(1999 Cole & Pratt)

Observing Log

Object type: Nebula

Object ID: M&C 1931

Const.: Aur **Observer** BY

RA: _____ **Dec.:** _____ **Date** 12/24/3

Mag: _____ **Size:** _____ **Time** 7150 CST

Location RMCC

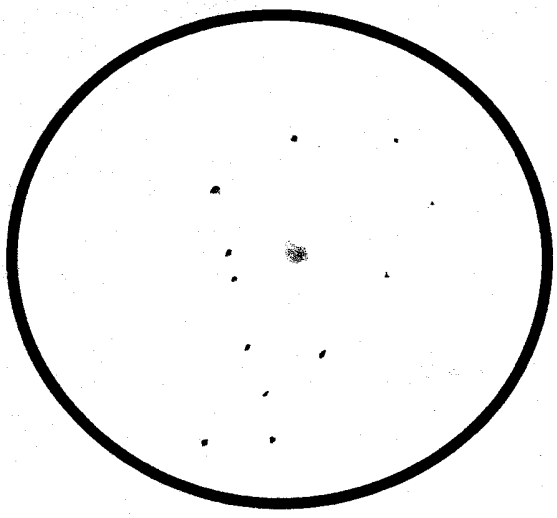
Seeing 8 **Transparency** 6

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 133x



- **Can this nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** A lot like a comet, with "nucleus" & short tail"
- **Is any part of the outer edge of the nebula sharply defined?** Yes, except at tail, with a little fade
- **Is any part of the nebula brighter or more concentrated?** "Nucleus"
- **Is there any particular area where you notice an absence of stars in this cluster?** N/A
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** N/A
- **Is there an open cluster nearby or involved or any obvious stars involved with this nebula?** Yes, star is enveloped
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description _____

(1999 Cole & Pratt)

Observing Log

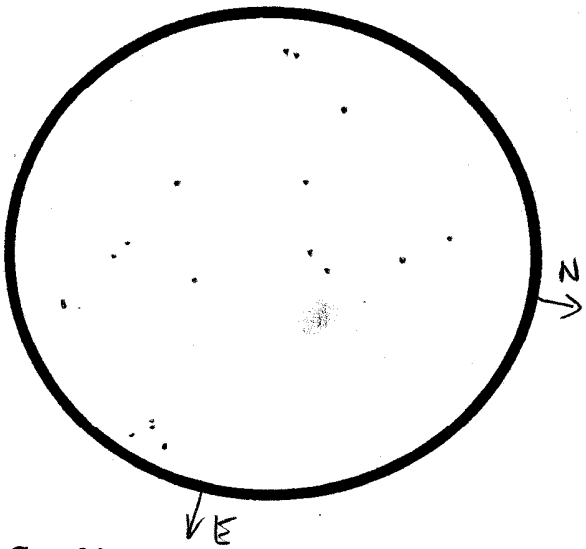
Object type: **Galaxy**

Object ID: NGC 1961

Const.: CAM

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 8:00 CST

Location NMCC

Seeing 8 **Transparency** 6 -

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** mostly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Seen for sure but just can't get w/direct vision — very trashy

(1999 Cole & Pratt)

Observing Log

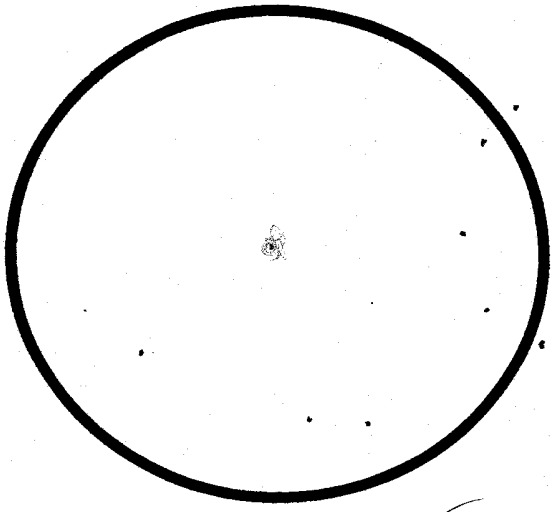
Object type: Galaxy

Object ID: NGC 1964

Const.: Lep

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/10/4

Time 7:40 CST

Location RMCC

Seeing 5 (wind) **Transparency** 6

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision (core), or is averted vision required? (wind blown for outer areas)**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Great field to SW

(1999 Cole & Pratt)

Observing Log

Object type: **Nebula**

Object ID: NGC 1980

Const.: Ori **Observer** BY

RA: _____ **Dec.:** _____ **Date** 11/26/13

Mag: _____ **Size:** _____ **Time** 11:25 CST

Location RMCC

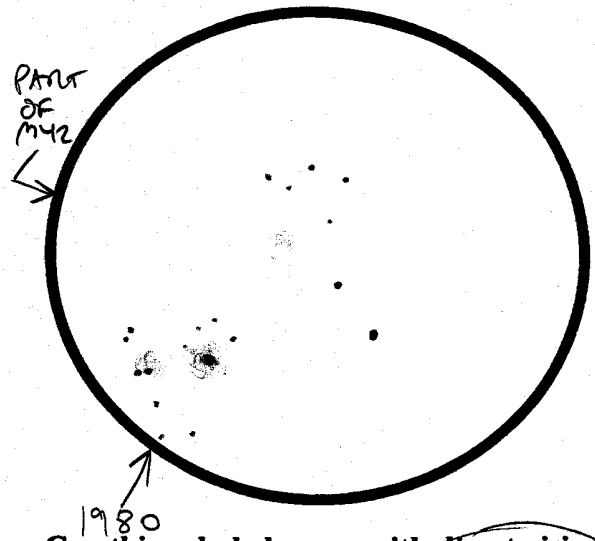
Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** 1980 is "surrounding" C & nearby double
- **Is any part of the outer edge of the nebula sharply defined?** No
- **Is any part of the nebula brighter or more concentrated?** No, just stars
- **Is there any particular area where you notice an absence of stars in this cluster?** —
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** —
- **Is there an open cluster nearby or involved or any obvious stars involved with this nebula?** —
- **Any suggestions for observing this nebula (I.e. filter, low power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** patch arrowed seemed to stand out from M42 but is apparently just a part of its southern area (broad)

Description L Ori hints of duplicity even @ 47x

Observing Log

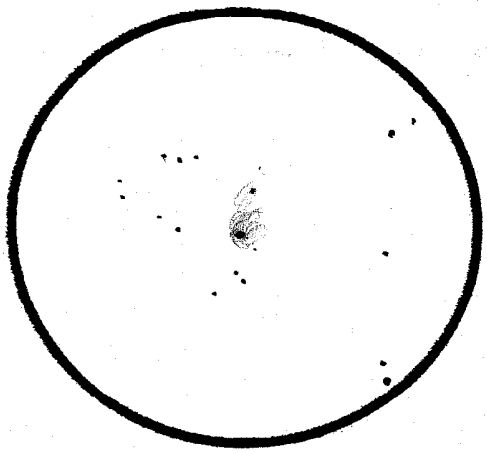
Object type: ~~Cluster~~/Nebula

Object ID: NGC 1999

Const.: ORI

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 9:10 CST

Location RNCC

Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can both the cluster and nebula be seen with direct vision, or is averted vision required?** best with
- **Is there an overall shape of the object or is it simply irregular?** Fuzzy
- **Is any part of the outer edge of the nebula sharply defined?** Around Star
- **Are the stars more concentrated in any one particular area? How many stars are in the ~~cluster~~?** At 8m Star
- **Is the cluster embedded in the nebulosity or is there a distinct separation?** No cluster
- **Is any part of the nebula brighter or more concentrated?** At star
- **Is there any particular area where you notice an absence of stars in this cluster?** No cluster
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** No
- **Any suggestions for observing this nebula (I.e. filter, ~~power~~ red, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Looks like a "fuzzy star" w/ 47x - 73x & AVB

patience brings out nebula extending from star

Especially nice @ 11 or 12 mag just outside of nebula

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

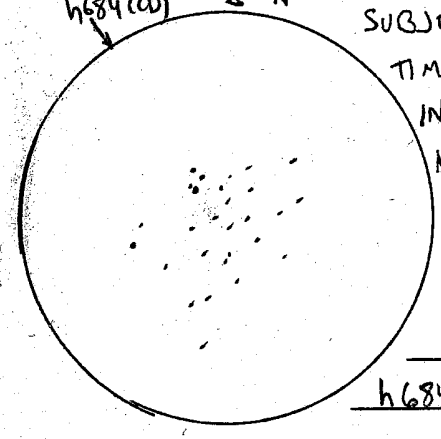
OBSERVATION RECORD

NGC 1999

OBSERVATION: 10/25-26/96 CONT SEEING: ____ CLARITY: ____

GENERAL NOTES: ____ TIME: ____ CST CDT DATE: ____

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 450X LOCATION: ____



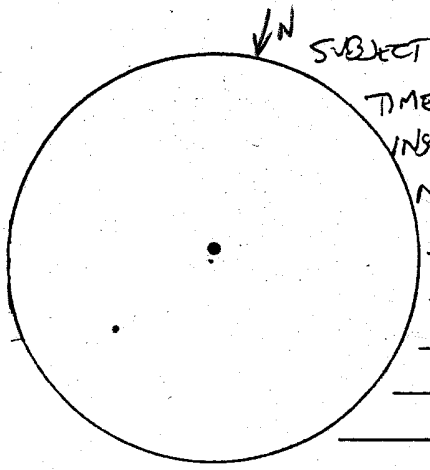
SUBJECT: NGC 1662

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X

h684CD = 9.6, 11.3, 11", 307°

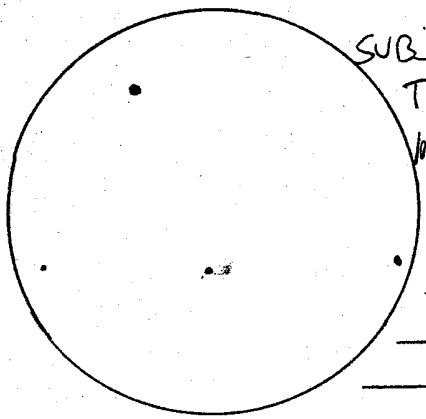


SUBJECT: 66 Eri

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

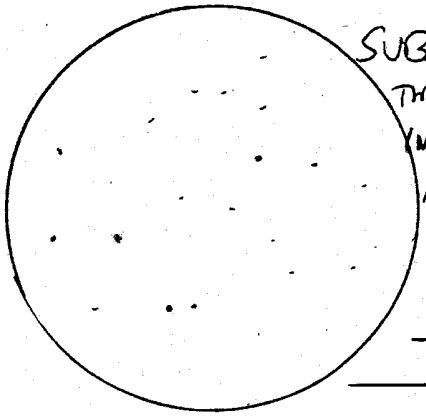


SUBJECT: NGC 1788

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X



SUBJECT: NGC 1999

TIME: ____ CST CDT

INSTRUMENT: 4.5"

NOTES: 90X

Observing Log

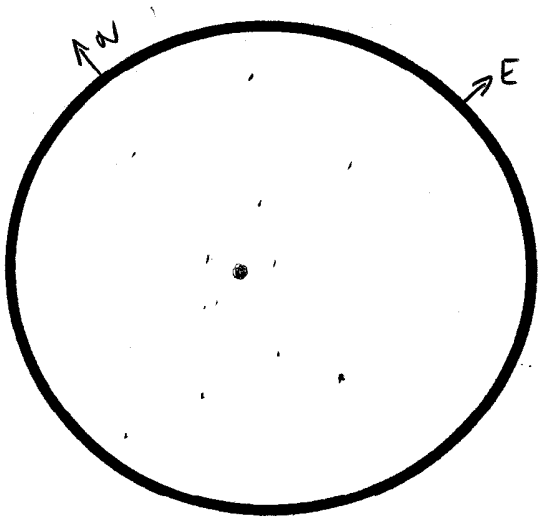
Object type: **Planetary Nebula**

Object ID: NGC 2022

Const.: ORI

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 9:00 CST

Location NMCC Bortle +4

Seeing X = II **Transparency** X = II-

Instrument ETX 125

Size 125 f/15

Eyepiece 12.4 mm

Field of view _____ **Power** 153X

+N.F.

- **What is the overall shape?** Round
- **Is this planetary easy or difficult to identify in your field?** 153X easy, 47X difficult
- **What is the color of this planetary?** Grey
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?**
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

POWER BRINGS IT OUT

O-A = No

D = Dd

Direct

No CS

Description VERY SMALL BUT NOT TOO DIM @ 153X

(1999 Cole & Pratt)

Observing Log

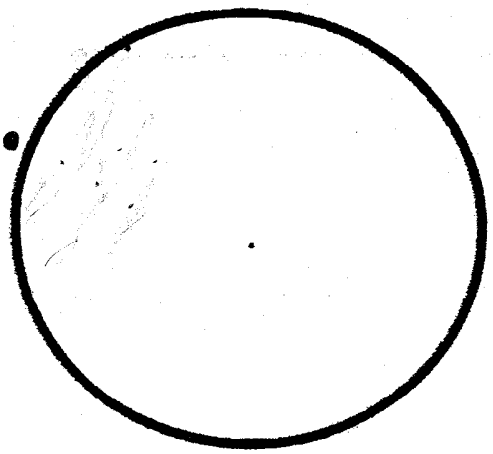
Object type: ~~Cluster~~/Nebula

Object ID: NGC2024

Const.: Ori

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 12/24/3

Time 9:30 CST

Location RMCC

Seeing 8 Transparency 5+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can both the ~~cluster~~ and nebula be seen with direct vision, or is averted vision required? as long as 5 is out
- Is there an overall shape of the object or is it simply irregular? sort of shell-like
- Is any part of the outer edge of the nebula sharply defined? No
- Are the stars more concentrated in any one particular area? ~~How many stars are in the cluster?~~ Layers (about 3)
- Is the cluster embedded in the nebulosity or is there a distinct separation? N/A
- Is any part of the nebula brighter or more concentrated? 3 layers (approx)
- Is there any particular area where you notice an absence of stars in this cluster? N/A
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? 3 layers
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? 5 out
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Easily noticed with 5 out of field

(1999 Cole & Pratt)

Observing Log

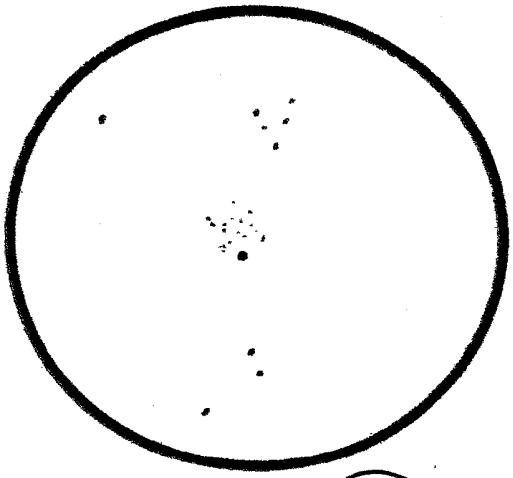
Object type: **Open Cluster**

Object ID: NGC 2126

Const.: Aur

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/12

Time 9:15 CST

Location NMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** fairly
- **What is the overall shape of the object?** bees around 7m blue star
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes 7m blue
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description NOT PLOTTED ON ITHON - USED POSITION TO FIND OFF 7m PLOT

(1999 Cole & Pratt)

Observing Log

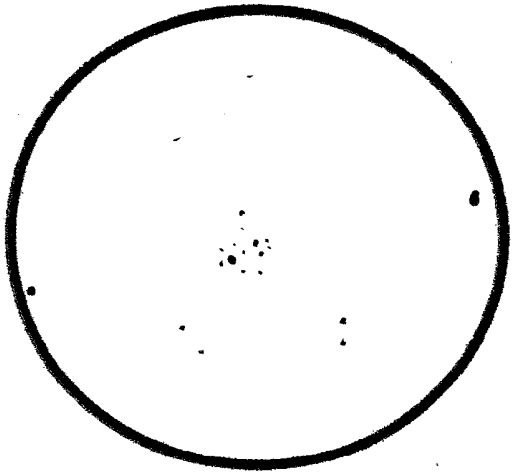
Object type: **Open Cluster**

Object ID: NGC 2129

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/13

Time 8:30 CST

Location RMCC

Seeing 8 **Transparency** 6-

Instrument RFR125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this cluster be easily distinguished from the background stars?** YES
- **What is the overall shape of the object?** NO DEFINITE
- **How many stars can you count in the cluster?** 12
- **Are the stars more concentrated in any one particular area?** NO
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** NO
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** YES, NO
- **Are there any other deep-sky objects in the same field of view? If so, what?** NO

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

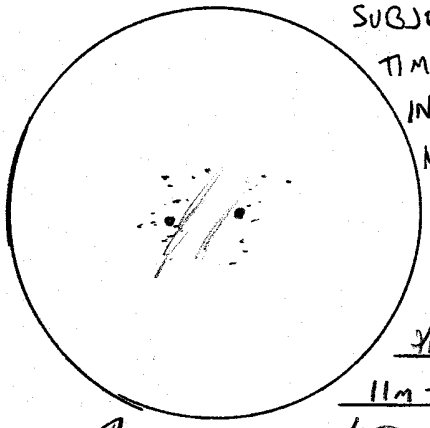
TULSA, OKLAHOMA

OBSERVATION RECORD

OBSERVATION: 2/9-10/97 cont SEEING: ____ CLARITY: ____

GENERAL NOTES: ____ TIME: ____ CST CDT DATE: ____

INSTRUMENT: EYE 10x50 4.5" POWER: 10X 45X 90X 220X 440X LOCATION: ____



SUBJECT: NGC 2129

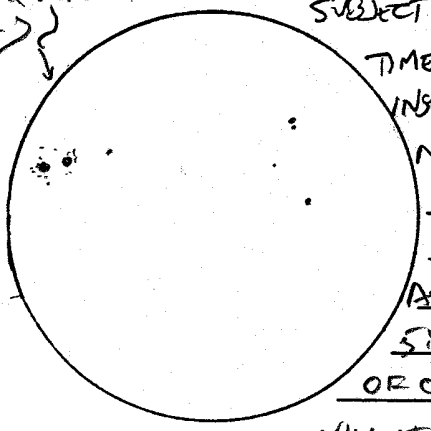
TIME: 1:00 CST CDT

INSTRUMENT: 4.5"

NOTES: Nice 7m wide dbl 90X show cluster BISECTED @ SW to NE angle between the two, with 10-12 11m – on each side. 45X was ok, but not clear enough on dark lane

NO ACTUAL NEBULOSITY, JUST "STARLESS" AREA

45X version of

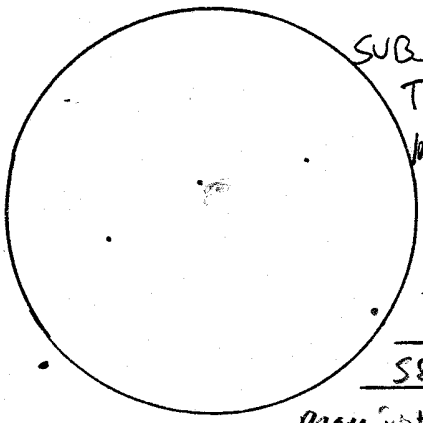


SUBJECT: NW Gen

TIME: 1:05 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X Show it easily per fld in S&T AT MINIMA @ 5:57 AM LATER, OF COURSE WILL HAVE SET

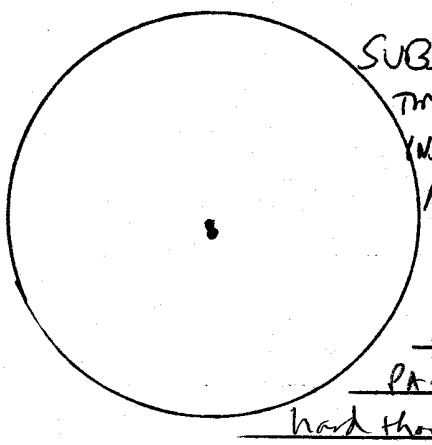


SUBJECT: Basel 11B

TIME: 1:15 CST CDT

INSTRUMENT: ____

NOTES: 45X "Smudge" as described, seems to fan out to S&SE from 10m, may just be illusion.



SUBJECT: £742 (Tau)

TIME: 1:20 CST CDT

INSTRUMENT: ____

NOTES: 220X Beautiful yellow pair, Δm ~ 0.6, PA ~ 280°, not too hard though low

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2158

Const.: Gem **Observer** BY

RA: _____ **Dec.:** _____ **Date** 12/24/3

Mag: _____ **Size:** _____ **Time** 8:25 CST

Location RMCC

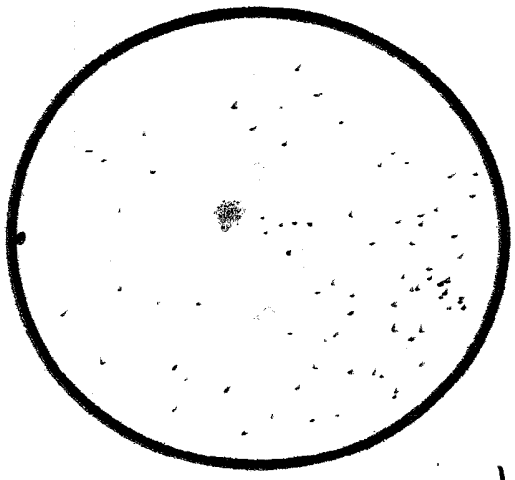
Seeing 8 **Transparency** 6-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x



Wow!

- **Can this cluster be easily distinguished from the background stars?** & From M35
- **What is the overall shape of the object?** round
- **How many stars can you count in the cluster?** Not resolved but several across face
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** almost
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** M35

Description _____

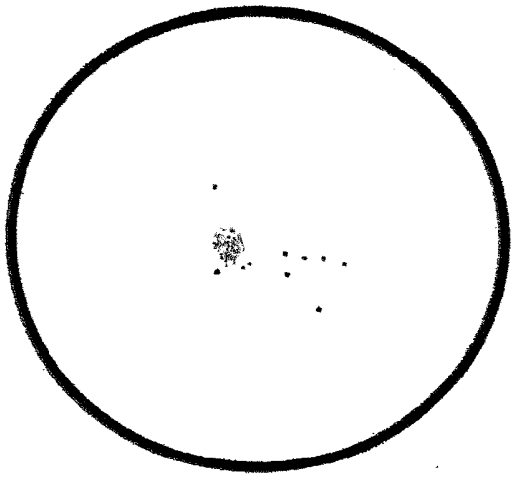
(1999 Cole & Pratt)

Object ID: NGC 2158

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 8:25 CST

Location RMCC

Seeing 8 **Transparency** 6-

Instrument 8" X16

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** ROUND
- **How many stars can you count in the cluster?** ~20 RESOLVED
- **Are the stars more concentrated in any one particular area?** NO
- **Is this cluster resolved fully or is there some background nebulosity noticed?** CLOSE TO BUT STILL
- **Is there any particular area where you notice an absence of stars in this cluster?** NO
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** NO
- **Are there any other deep-sky objects in the same field of view? If so, what?** M35

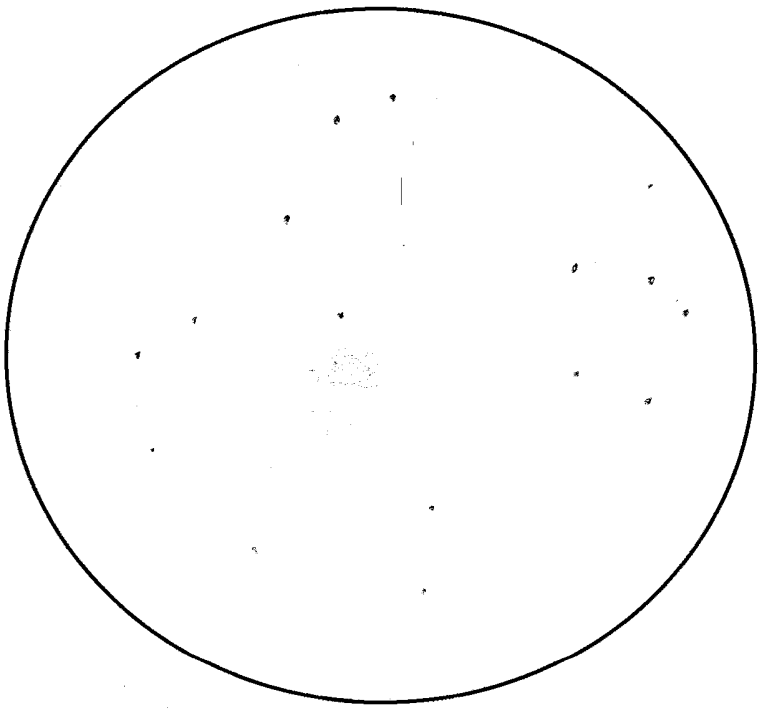
Description _____

(1999 Cole & Pratt)

DATE 3/29/3 **TIME** 7:30 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 2158 **LOCATION** (RMCC) HOME _____



seen outside main BS fld - M.B. helps - still unresolved but nice to see it clearly

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

OBSERVATION: 2/9-10/97 cont

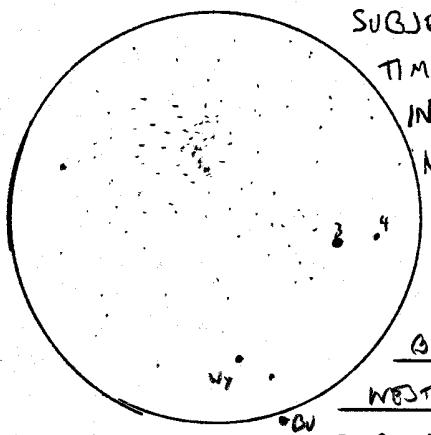
GENERAL NOTES: TIME: CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:

DATE:

LOCATION:

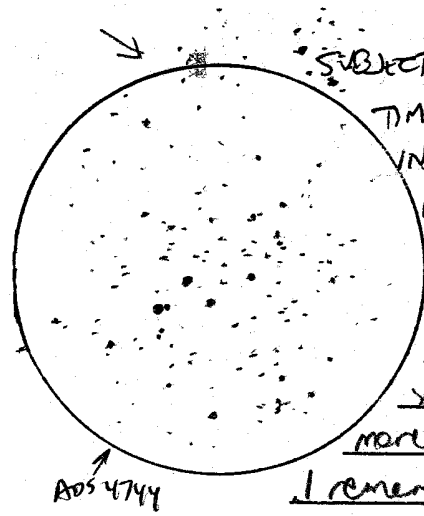


SUBJECT: "UNKNOWN RIDGE"

TIME: 12:25 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X ACTUALLY 4 FIELDS, E. SIDE DOES GET ABRUPTLY BLANK, BUT I SEE WEST SIDE SHOWS SIMILAR QUICK CHANGE IN RICHNESS.

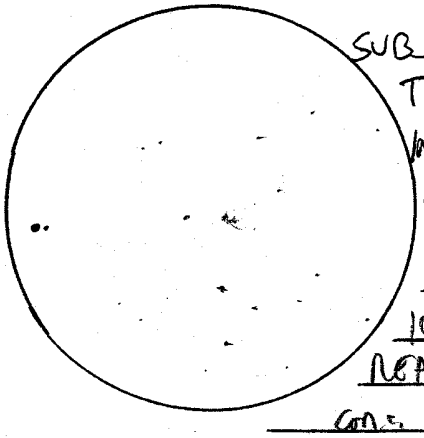


SUBJECT: M35 + NGC 2158

TIME: 12:45 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X ADS 4744 in middle of M35 @ 200°, M35 seemed elong. more NNE-SSW than I remember. NGC 2158 not as easy as usual, only 20° up on a 70% (150 up) moony night



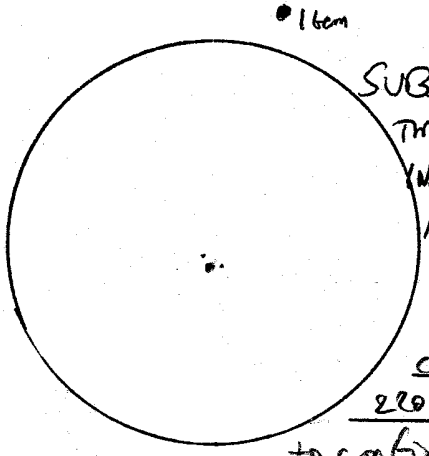
SUBJECT: NGC 2157

TIME: 12:50 CST CDT

INSTRUMENT: 4.5"

NOTES: glimpse of hazy spot runs SE of 10.5 mag with REAV & hard conc. No hope on NGC 2156

45X field



SUBJECT: "Triple Just Wet 1 Gem"

TIME: 12:55 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X shows it as a triple, 90X tried to confirm PA's, 220X shown is to confirm, mostly altitude on difficulty I believe

Observing Log

Object type: **Open Cluster**

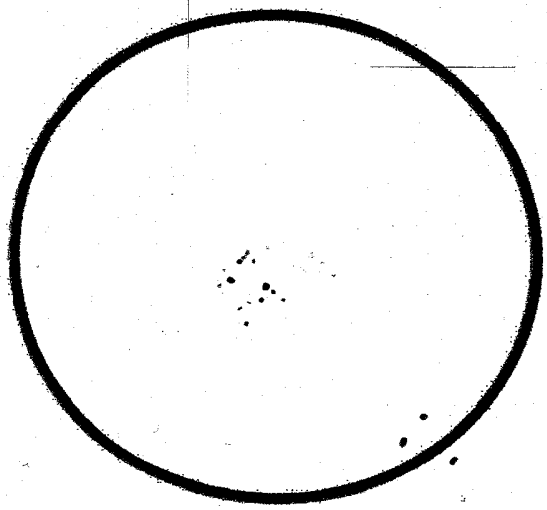
Object ID: NGC 2169

Const.: Gem **Observer** DY

A: _____ **Dec.:** _____ **Date** 11/28/13

Mag: _____ **Size:** _____ **Time** 1:50 CST

Location Home



Seeing 9 **Transparency** 5

Instrument EQ2 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** TE
- **How many stars can you count in the cluster?** 12
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, no
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

LOCATION: MC'S

DATE: 2/1-2/95 TIMES: 11:30pm-7:25am

DESCRIPTION: WAY NOT 8 BALL

NGC 2169

C: I ~~II~~ ~~III~~ IV V

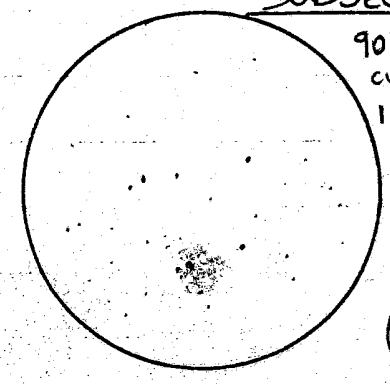
S: I ~~II~~ III IV V

I: EYE 10X50 4.5" OTHER

P: 0X 10X 45X 90X 220X

OPTIONAL

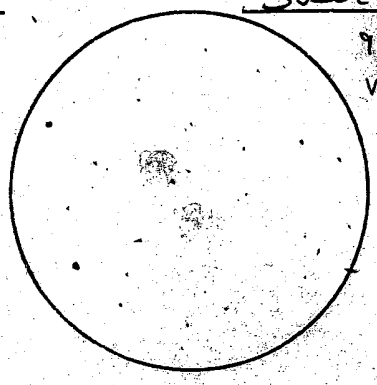
SUBJECT: NGC 2169



90X 11:35pm
CLOSE DBL IN CENTER
IS ADS 4728 AB
7.4+8, 0, 2".5, 109°
AROUND 10 STARS IN
MAIN BUNCH

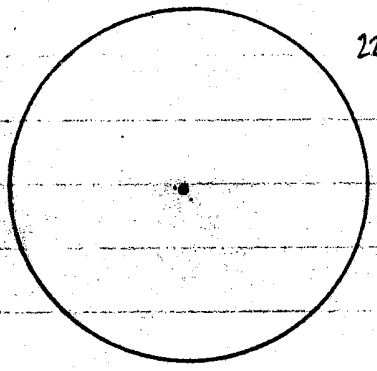
NO WAY!

SUBJECT: NGC 2194



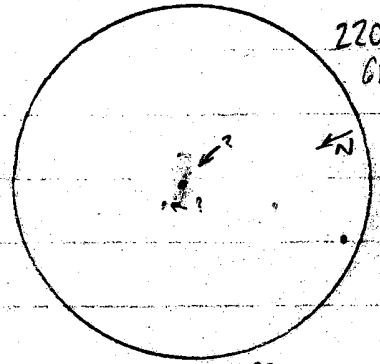
90x 11:45pm
VERY DIM SMALL
GLOW NW OF 11m

SUBJECT: 6m dbl 1½°E ≡ 0m



220X 11:50pm 1ST
N
AS

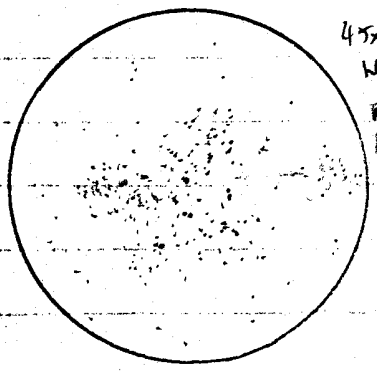
SUBJECT: NO NAME (ALLUDED PLOT) DBL



220X ½° SW of "pt dbl" near
6h40+21°
8.5m, 11m @ 265°, 11m @
30° (w/12m @ 45°?),
12m @ 210° (?)

PLT AS DBL

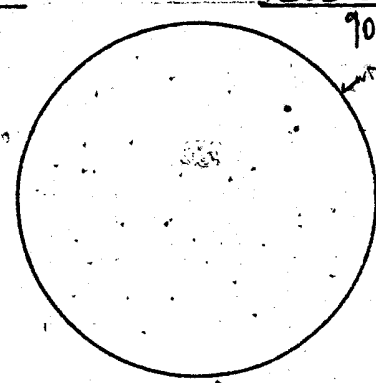
SUBJECT: M38



45x 12:35am REAV
West side (sep. NW) seems
richer than I remember

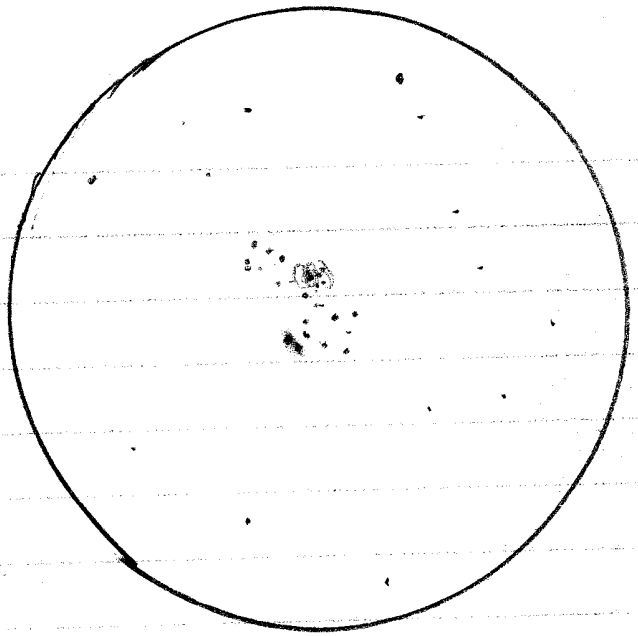
SUBJECT: NGC 1907

90x FAINT BUT COOL
wide pair mentioned



h699
10.4+11.6
9".7
216°

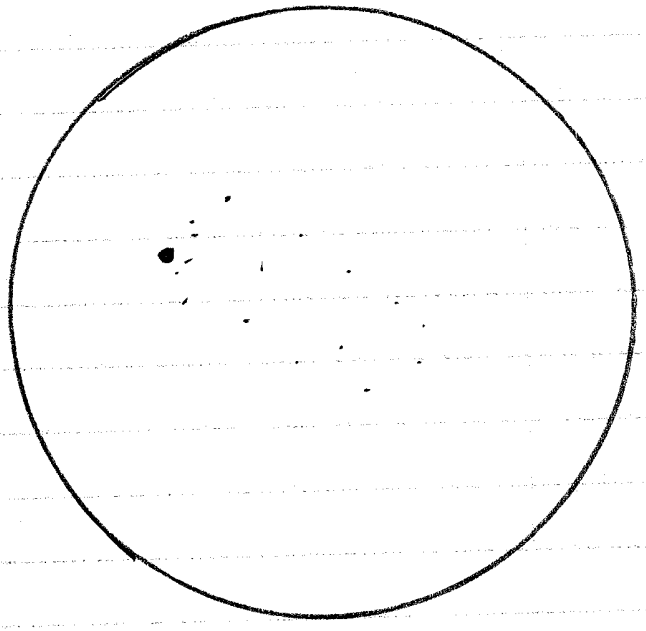
1/28/98 (am)

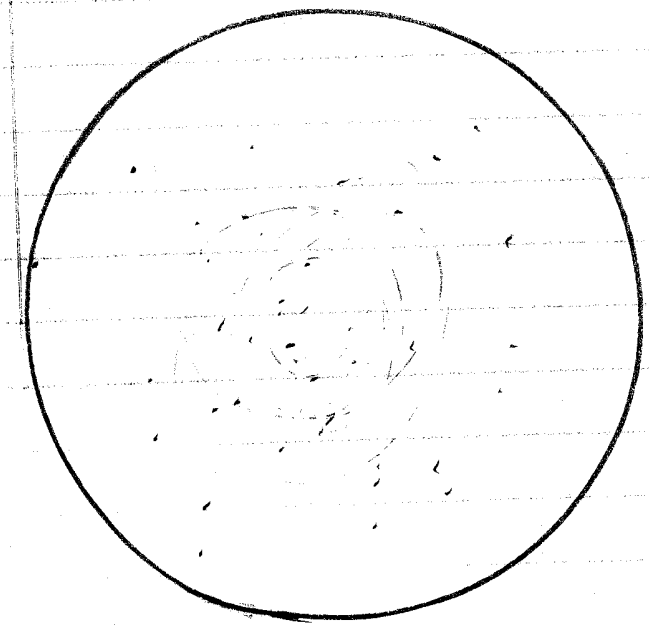


NGC 2169 72x 2:30 CST

5 Mon & NGC2264 36x

Washout (low) 2:30 CST





M48 72x (low) 2:40 CST

Observing Log

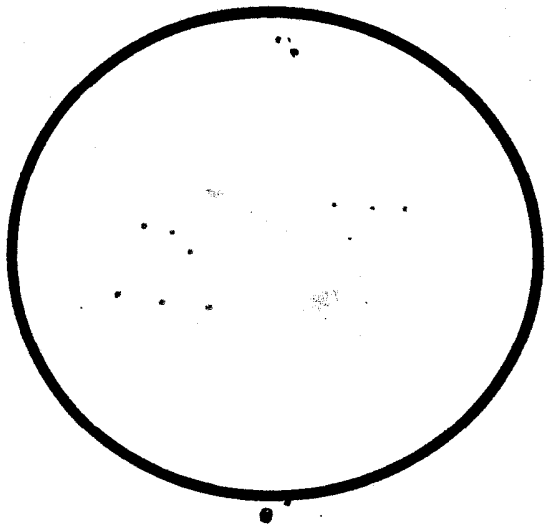
Object type: ~~Galaxy~~ Nebulas

Object ID: NGC 2185 / 2183

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/24/3

Time 9:45 CST

Location RMCC

Seeing 9 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Irregulars
- **Is a core noticeable?** No core
- **Is the core compact or stellar?** Both indefined edges
- **Can any detail be seen between the core and the outer envelope of the object?** No details
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description Extremely elusive - can tell they're there with direct vision - but need a.v. to really "see" Amorphous blobs of grey glow

(1999 Cole & Pratt)

Observing Log

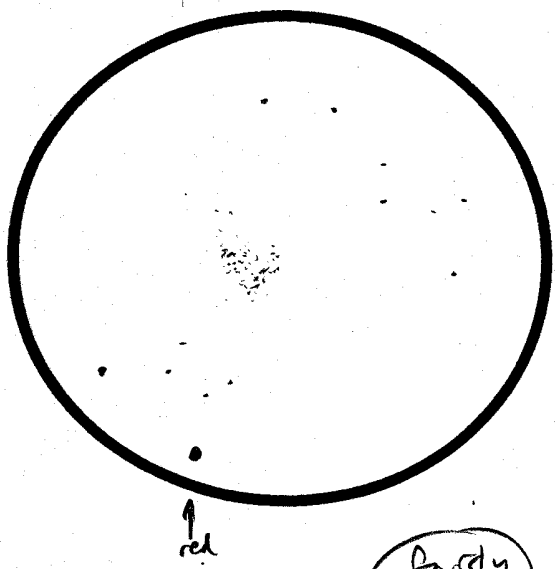
Object type: **Open Cluster**

Object ID: NGC 2186

Const.: ORI

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BM

Date 1/23/4

Time 8105 pm

Location RMCC

Seeing 6 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** Fairly
- **What is the overall shape of the object?** Bootes outline
- **How many stars can you count in the cluster?** 25
- **Are the stars more concentrated in any one particular area?** Not really
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
  but red 6m to S
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Pretty bt dim

(1999 Cole & Pratt)

LOCATION: MC'S

DATE: 2/1-2/95 TIMES: 11:30pm-7:25am

DESCRIPTION: WAY NOT 8 BALL

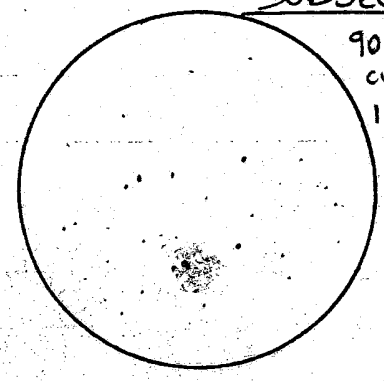
C: I ~~II~~ ~~III~~ IV V

S: I ~~II~~ III IV V

I: EYE 10X50 4.5" OTHER

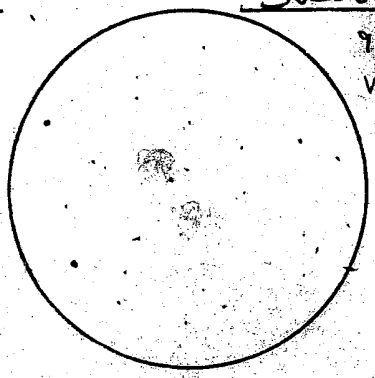
P: 0X 10X 45X 90X 220X

SUBJECT: NGC 2169



90X 11:35pm
CLOSE DBL IN CENTER
IS ADS 4728 AB
7.4+8, 0, 2".5, 109°
AROUND 10 STARS IN
MAIN BUNCH

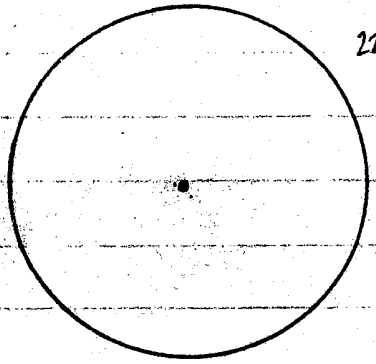
SUBJECT: NGC 2194



90X 11:45pm
VERY DIM SMALL
GLOW NW OF 11m

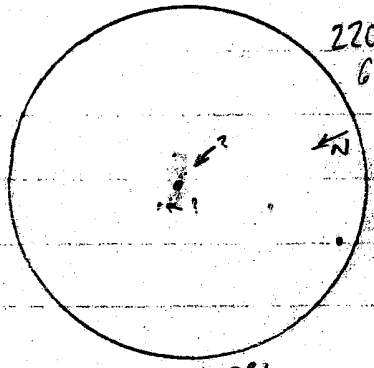
NGC 2194

SUBJECT: 6m dbl 1½°E ≥ 0m



220X 11:50pm 1ST
N
AS

SUBJECT: NO NAME (DBL ALLUDED PLOT)

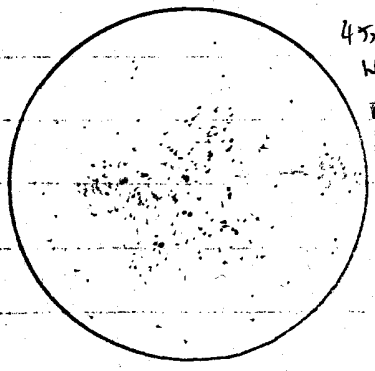


220X ½° SW of "pt dbl" near
6h40+21°
8.5m, 11m @ 255°, 11m @
30° (w/12m @ 45°?),
12m @ 210° (?)

N

← PLT AS DBL

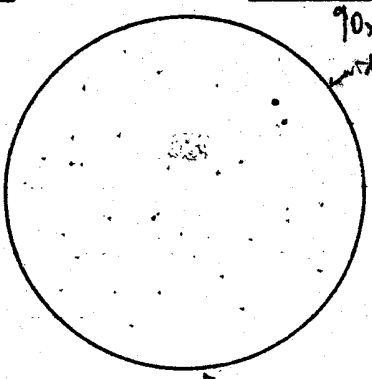
SUBJECT: M38



45X 12:35am REAV
West side (sep. NW) seems
richer than I remember

SUBJECT: NGC 1907

90X FAINT BUT COOL
wide pair mentioned



h699
10.4+11.6
9".7
216°

Observing Log

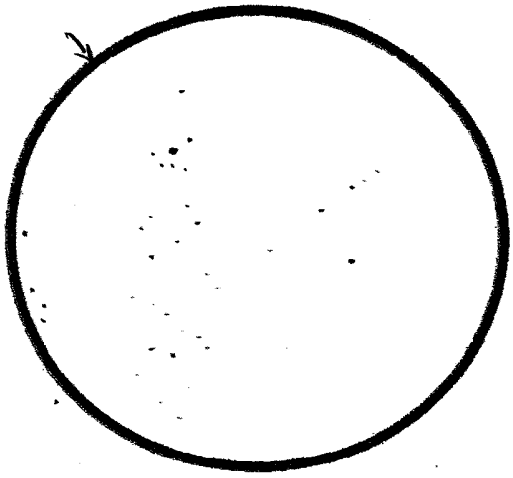
Object type: **Open Cluster**

Object ID: NGC 2204

Const.: CMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 12/23/3

Time 11:45 CST

Location Home

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this cluster be easily distinguished from the background stars?** No
- **What is the overall shape of the object?** Sparse "ladder" S From Gm
- **How many stars can you count in the cluster?** 10-12
- **Are the stars more concentrated in any one particular area?** Around Gm
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, Gm B yellowish-orange
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Poor - see attached - try @ darker

(1999 Cole & Pratt)

Observing Log

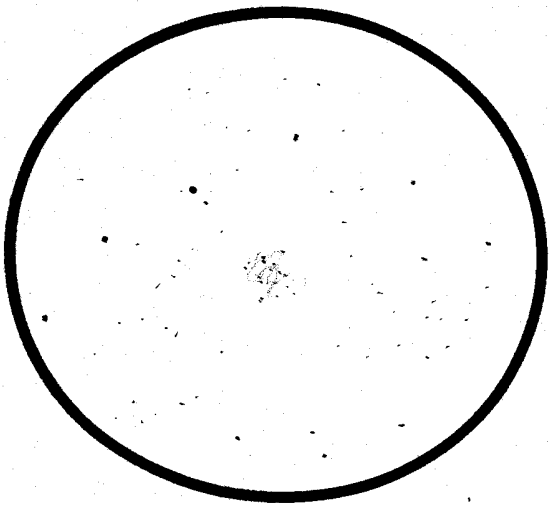
Object type: **Open Cluster**

Object ID: NGC 2215

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/23/4

Time 8:20 pm CST

Location RMCE

Seeing 7 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** Fairly
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** ~20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

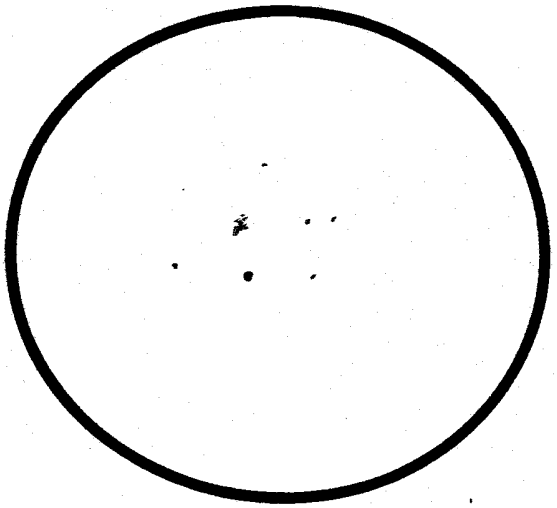
Object type: **Open Cluster**

Object ID: NGC 2232

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/23/4

Time 8:25 pm CST

Location RMCC

Seeing 7 **Transparency** 5

Instrument ~~—~~ 5

Size ~~—~~

Eyepiece EYE!

Field of view _____ **Power** 1X

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Slightly elong.
- **How many stars can you count in the cluster?** None resolved
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** (all)
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** ——

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2232 + asterism

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 1/23/4

Time 8:30 CST

Location RMCC

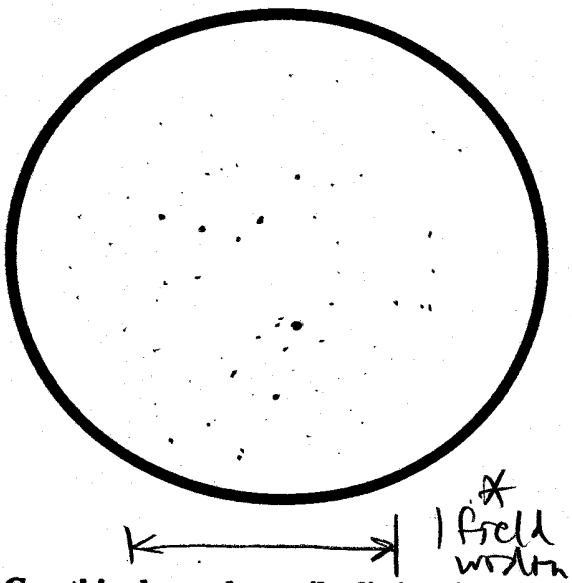
Seeing 7 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view * **Power** 47x



- **Can this cluster be easily distinguished from the background stars?** Wide now
- **What is the overall shape of the object?** extended lines
- **How many stars can you count in the cluster?** 12
- **Are the stars more concentrated in any one particular area?** Around sm n center
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No color
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

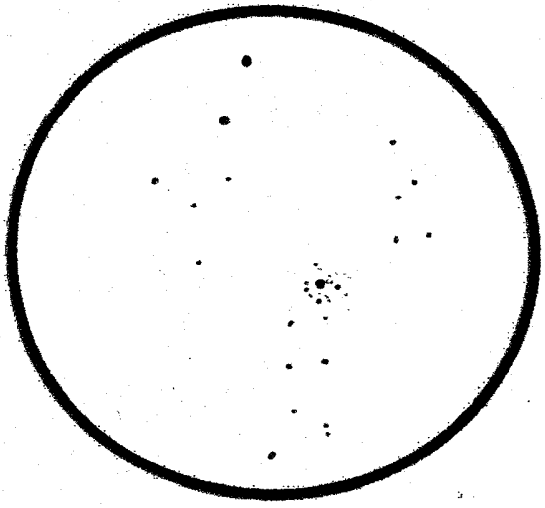
Object type: **Open Cluster**

Object ID: Mc 2232

Const.: MON

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/28/3

Time 1:55 CST

Location Home

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 42

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Oval
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** Near 10 Mon
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes Ivory
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

LOCATION: MC

DATE: 2/3-4/95 TIMES: 11:00-6:45am

DESCRIPTION: LOVELY COLD NITE

NGC 2237

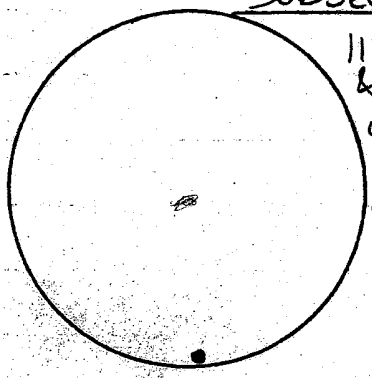
C: I II III IV V

S: I II III IV V

I: EYE 10X50 4.5 OTHER

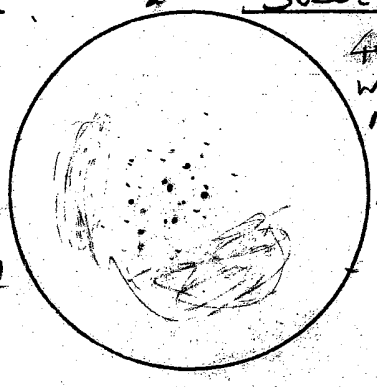
P: 0X 10X 45X (orange) 90X 220X

SUBJECT: NGC 1554-5



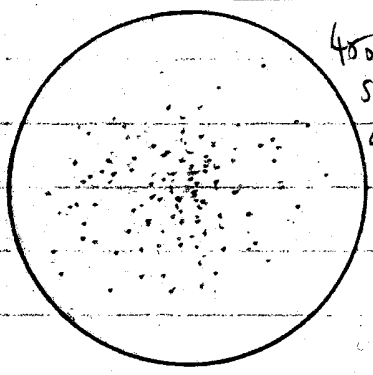
11:00pm 220X REAV w/conc. & most of Tau out of view helps glimpse DON'T NEED AN 8"! "HIND'S VARIABLE NEBULA" SEE ASTRONOMY FEB 95, P. 65.

SUBJECT: NGC 2244 + 2237(?)



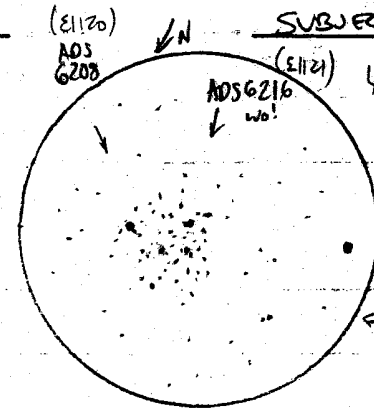
45X FAINT WISPS OF NEB ON N & E SIDES W/REAV "ROSETTE"

SUBJECT: M48



45X Lovely field stars, brighter & density towards center.

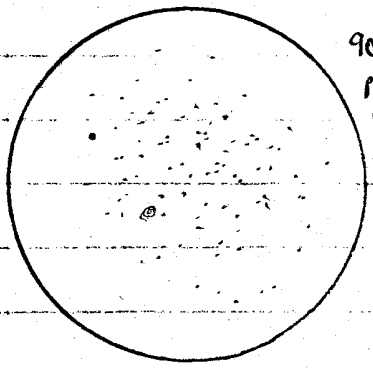
SUBJECT: M47



45X VERY BRIGHT KNOT W/SEVERAL DBLS. ADS 6208 = 5.7 + 9.7, 20", 41° ADS 6216 = 7.0 + 7.3 7".4, 305°

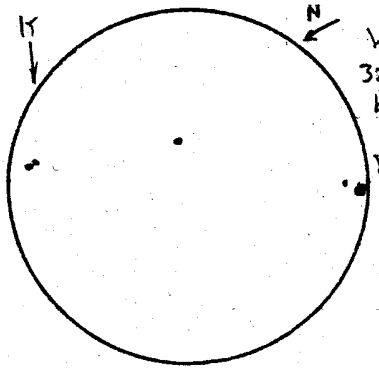
← PLOT, NO I.D.

SUBJECT: M46 & NGC 2438



90X at cluster PN EASY, JUST NW of 11m, 13m e.s. glimpsed w/direct vision

SUBJECT: 15, ν Gem



ν is beaut, wide, 320°, Blue-white & blue. 15 closer, neater, Orange & slightly greenish blue. 200°

Const.: Mon

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 1/23/4

Time 8:40 pm

Location NMCC

Seeing 6 Transparency 5

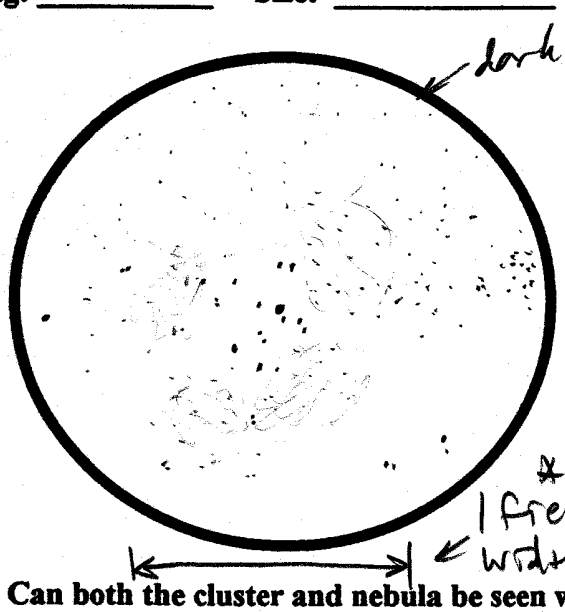
Instrument ETX125

Size 125

Eyepiece 40

Field of view * Power 47

w/ neb filter (wide band)



- Can both the cluster and nebula be seen with direct vision, or is averted vision required? w/filter neb w/o filter
- Is there an overall shape of the object or is it simply irregular? Cluster - nothing strange Nebula - 3 major pieces all up to almost a circle
- Is any part of the outer edge of the nebula sharply defined? The dark area to NW is
- Are the stars more concentrated in any one particular area? How many stars are in the cluster? No, ~20
- Is the cluster embedded in the nebulosity or is there a distinct separation?
- Is any part of the nebula brighter or more concentrated? southern part - maybe and western small patch
- Is there any particular area where you notice an absence of stars in this cluster? Outside of cluster to NW is dark area - very few stars
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? "Flower petal" effect - but dark area makes it look like 1 petal fell off
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? !!
- Are there any other deep-sky objects in the same field of view? If so, what? Each other

Description Drew this dwg w/no neb filter - added it and all details shown important - cluster suffused in glow!

(1999 Cole & Pratt)

Observing Log

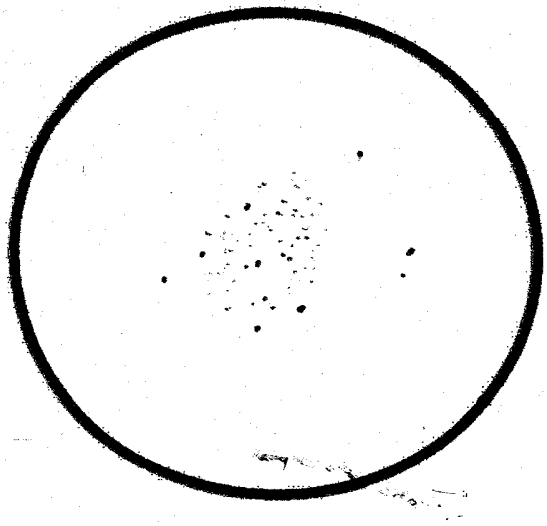
Object type: **Open Cluster**

Object ID: NGC 2244

Const.: MON

A: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/28/3

Time 2:00 CST

Location Home

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** > 100
- **Are the stars more concentrated in any one particular area?** A bit on NE side
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Rosette Nebula — I think I see unresolved stars not nebula in city.

Description _____

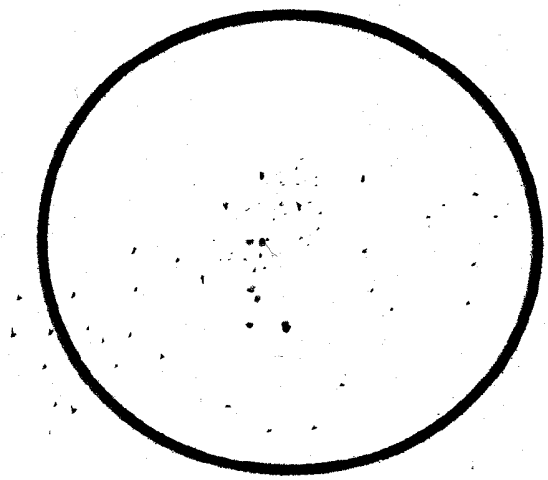
(1999 Cole & Pratt)

Object ID: NGC 2244

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/29/3

Time 12:25 CST

Location Home

Seeing 9 **Transparency** 4+

Instrument 8"x125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Oval
- **How many stars can you count in the cluster?** 15 + some haze
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No nebula tonight

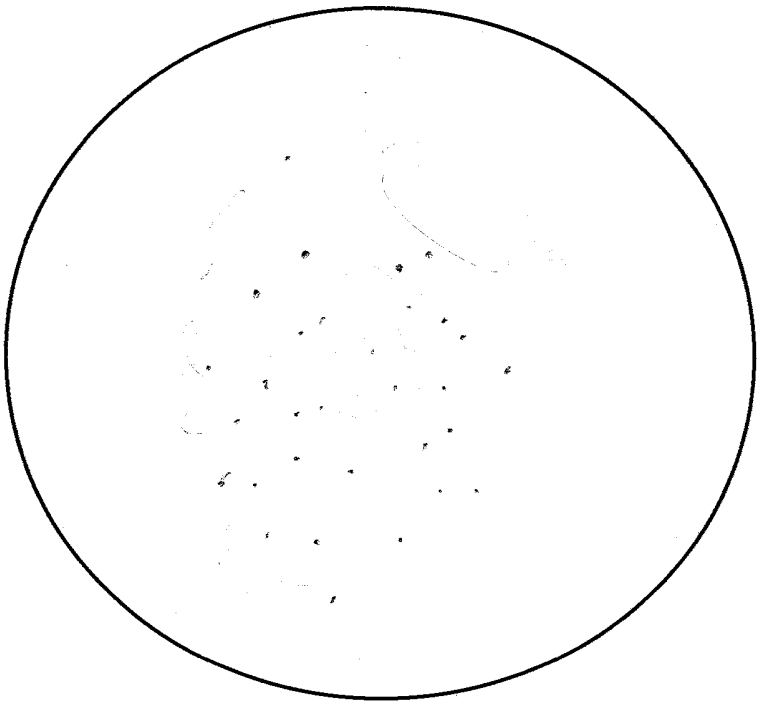
Description _____

(1999 Cole & Pratt)

DATE 3/29/3 **TIME** ____ CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2244 **LOCATION** (RMCC) HOME ____



1 Filter masks nebula – slight glimpses of it w/o filter. Cluster great, a little sparse bright.

LOCATION: MC

DATE: 2/3-4/95 TIMES: 11:00-6:45 am

DESCRIPTION: LOVELY COLD NITE

NGC 2244

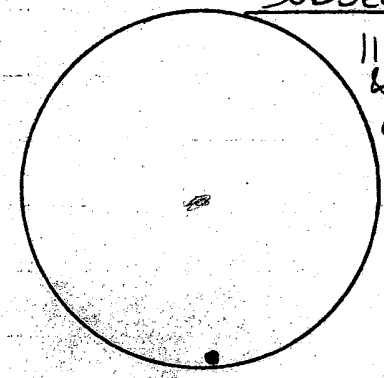
C: I II III IV V

S: I II III IV V

I: EYE 10x50 4.5" OTHER

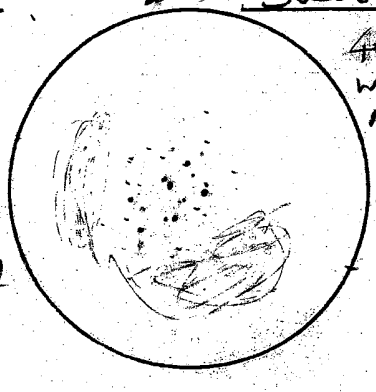
P: 0x 10x 45x (orange) 90x 220x

SUBJECT: NGC 1554-5



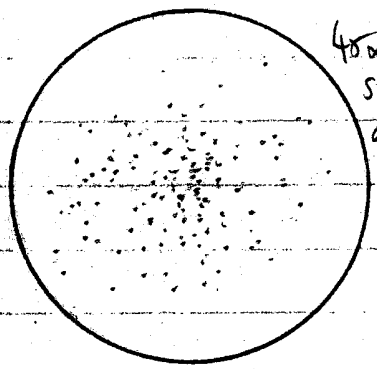
11:00pm 220x REAV w/conc. & most of Tau out of view helps glimpse DON'T NEED AN 8"! "HIND'S VARIABLE NEBULA" SEE ASTRONOMY FEB 95, P. 65.

SUBJECT: NGC 2244 + 2237(?)



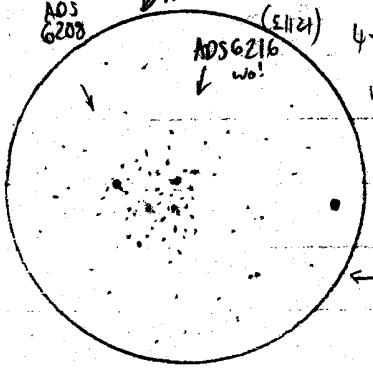
45x FAINT WISPS OF NEB ON N&E SIDES W/REAV "ROSETTE"

SUBJECT: M48



45x Lovely field stars, brighter & denser towards center.

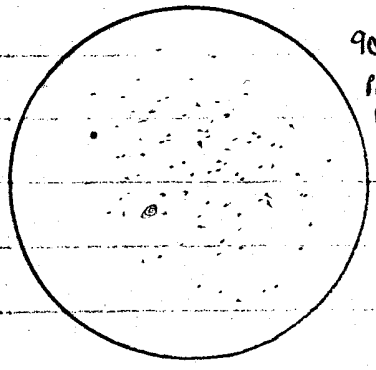
SUBJECT: M47



45x VERY BRIGHT KNOT W/SEVERAL DBLS. ADS 6208 - 5.7 + 9.7, 20", 41° ADS 6216 = 7.0 + 7.3 7".4, 305°

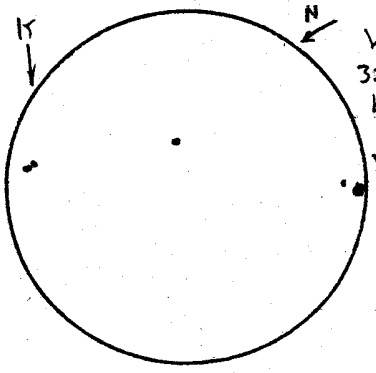
← PLOT, NO I.D.

SUBJECT: M46 & NGC 2438



90x at cluster PN EASY, JUST NW of 11m, 13m e.s. glimpsed w/ direct vision

SUBJECT: 15, ν Gem



ν is beaut, wide, 320°, Blue-white & blue. 15 closer, neater, Orange & slightly greenish blue. 200°

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

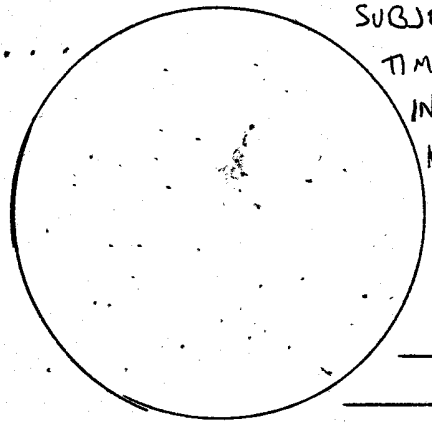
NGC 2251

OBSERVATION: 12/2/95 SEEING: II CLARITY: II

GENERAL NOTES: TIME: CST CDT DATE:

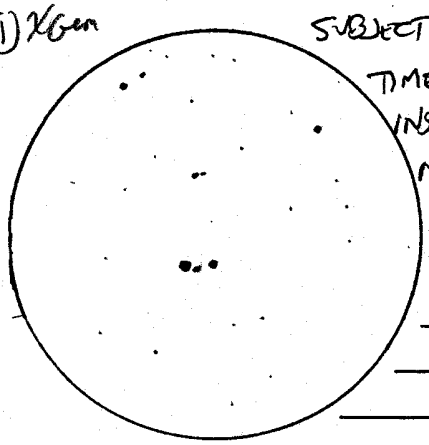
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X LOCATION:

"THE DEPTHS OF MONOCEROS"

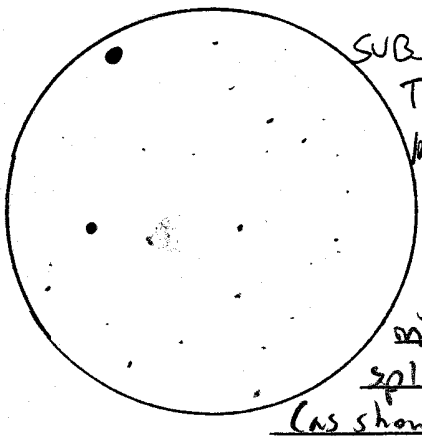


SUBJECT: NGC 2251
TIME: 5:42 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
GO BACK FOR
DBLS, ETC!

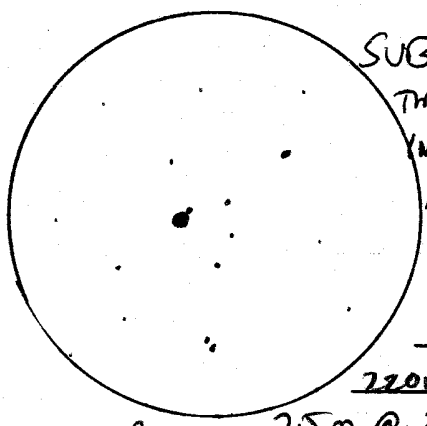
(1) XGen



SUBJECT: (2) South 529
TIME: 5:55 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Y, b, w-y.



SUBJECT: NGC2259
TIME: 6:00 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
12 m's seen, cluster
glimpsed w/AV
in 45X, 220X
splits 12 m's
(as shown), but cluster
too dim



SUBJECT: SMon
TIME: 6:05 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X
45X shows
nice cluster
effect & glow
220X splits
220X 7.5 m @ 230°

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

NGC 2261

OBSERVATION: More "Depths of Mon"

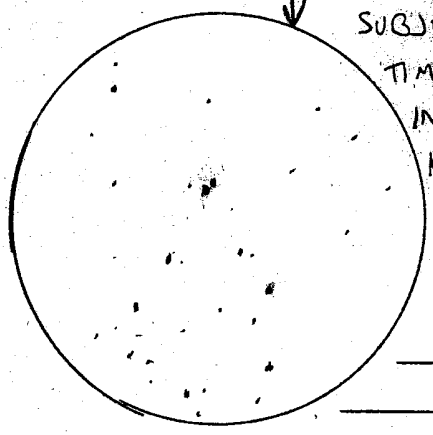
GENERAL NOTES: Busy Night! TIME: 3:00-3:20 CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X ornate

SEEING: II CLARITY: II

DATE: 12/2/95

LOCATION: MANN



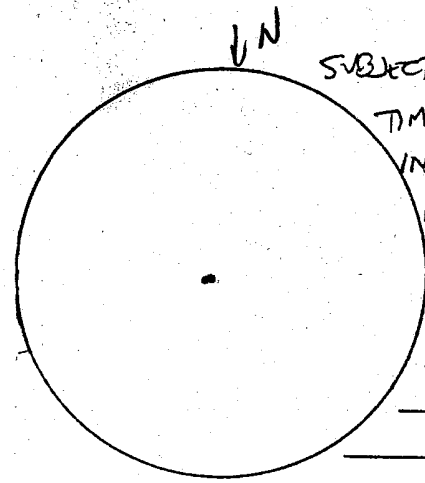
SUBJECT: E954 + NGC 2264

TIME: 3:00 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

Cluster cool, DBL easy.



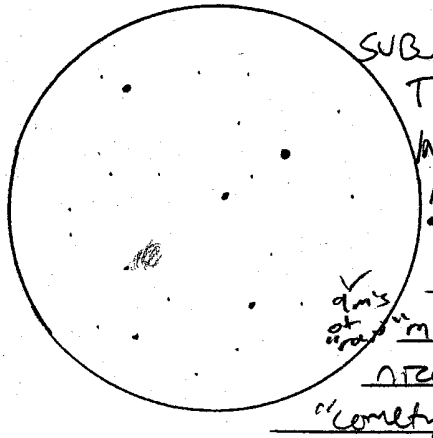
SUBJECT: E953

TIME: 3:05 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

p.026, not too hard at 45X



SUBJECT: NGC 2261

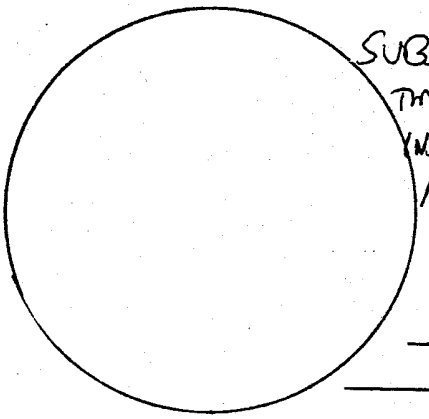
TIME: 3:20 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

• 220X was too much, still missing 90X, nice @ 45X, even "comety" glow w/ 11m to NW

9m's of "rain"



SUBJECT:

TIME: CST CDT

INSTRUMENT:

NOTES:

Observing Log

Object type: Open Cluster

Object ID: NGC 2264

Const.: MON **Observer** BY

A: _____ **Dec.:** _____ **Date** 11/28/13

Mag: _____ **Size:** _____ **Time** 2:05 CST

Location HOME

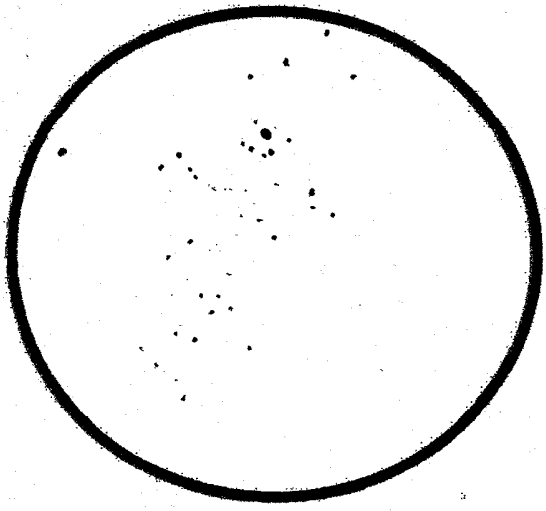
Seeing 9 **Transparency** 5

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** V
- **How many stars can you count in the cluster?** 28
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** Middle of tree
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, SMan Pale yellow
- **Are there any other deep-sky objects in the same field of view? If so, what?** Not visible here

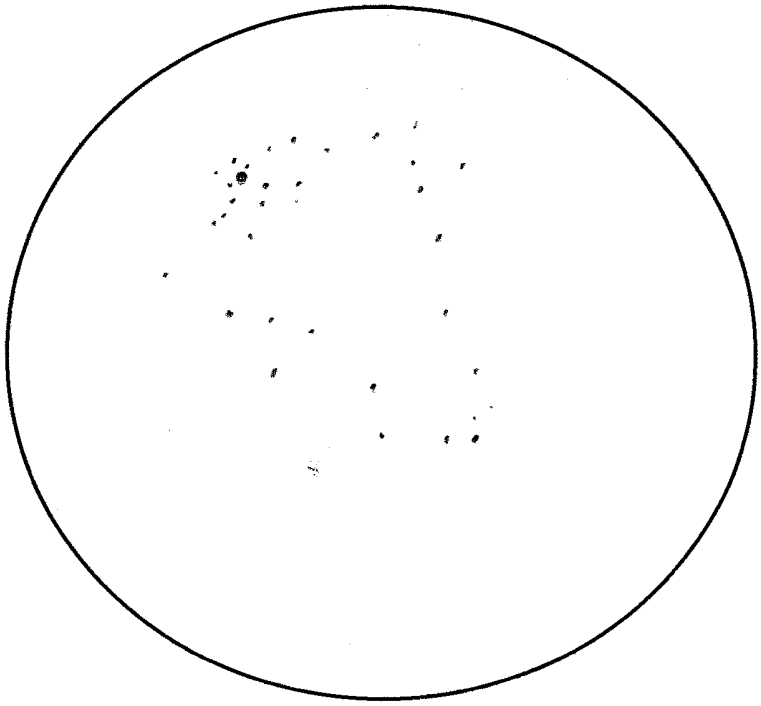
Description _____

(1999 Cole & Pratt)

DATE 3/29/13 **TIME** 9:35 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2264 **LOCATION** (RMCC) HOME _____



S Mon + "Christmas tree" asterism.

Actually a full field.

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

NGC 2264

OBSERVATION: More "Depths of Mon"

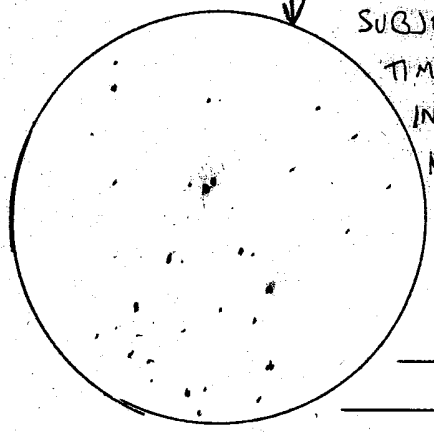
GENERAL NOTES: Busy Night! TIME: 3:00-3:20 CST CDT

INSTRUMENT: EYE 10x50 4.5" POWER: 10x 45x 90x 220x 440x

SEEING: II CLARITY: II

DATE: 12/2/95

LOCATION: MANN



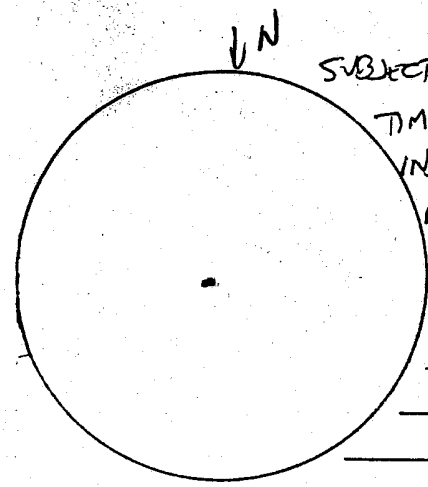
SUBJECT: E954 + NGC 2264

TIME: 3:00 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

CLUSTER COOL, DBL EASY.



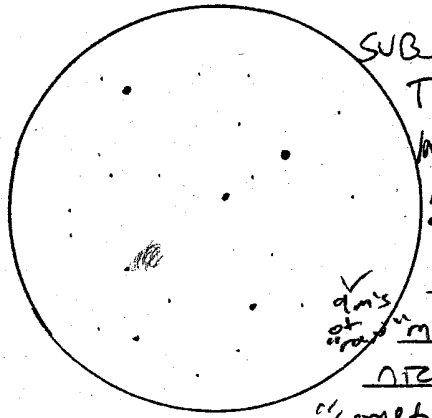
SUBJECT: E953

TIME: 3:05 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

p.02b, not too hard at 45x



SUBJECT: NGC 2261

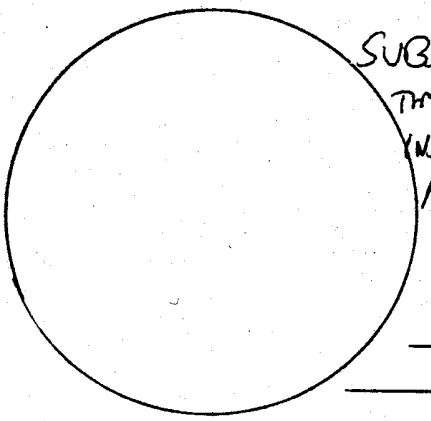
TIME: 3:20 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

220x was too much, still missing 90x, nice @ 45x, even "comety" glow w/ 11m to NW

9m's of "rain"



SUBJECT:

TIME: CST CDT

INSTRUMENT:

NOTES:

BRAD YOUNG

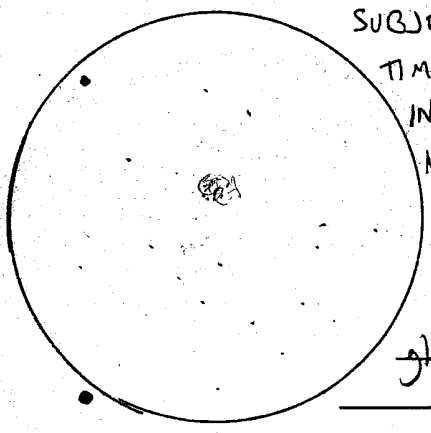
NGC 2266

TULSA, OKLAHOMA

OBSERVATION RECORD

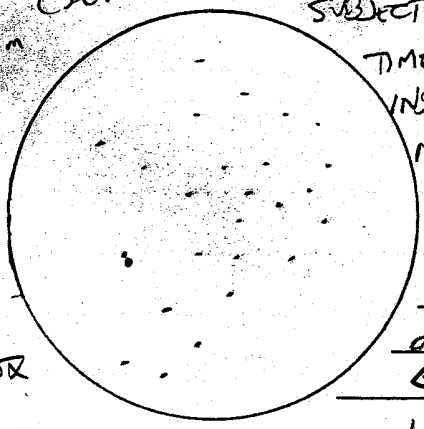
OBSERVATION: From GMa's
SEEING: II CLARITY: II
GENERAL NOTES:
TIME: 2/17/96 CST CDT
DATE: 2:00 – 6:45
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 70X 220X 440X
LOCATION: GMA'S

or note "Remembering Gemini" (selected objects) 3/96 Ast, p. 66



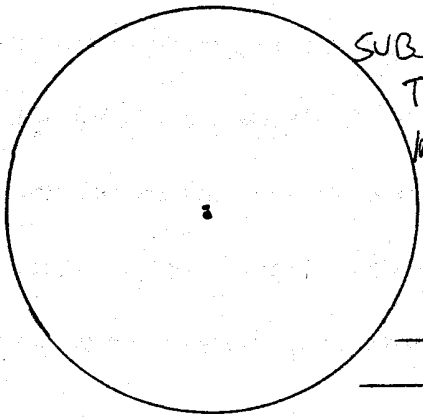
SUBJECT: NGC 2266
TIME: 2:10 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X seen, but seeing getting poor this low, just glow at ~10m.

pl. 8m



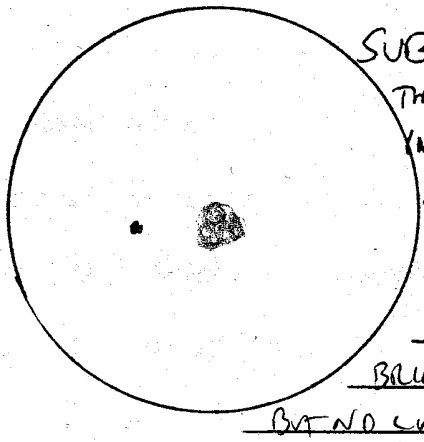
SUBJECT: NGC 2420
TIME: 2:45 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X to get dbl. Used low power to see cluster as ← Poor, brightish, not a spectacle

45X



SUBJECT: 8m dbl 1° next
TIME: 2:30 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X ~8.5+9, ~240° ~5"? Not sure.

N



SUBJECT: NGC 2392
TIME: 3:00 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X BELIEVE I GLIMPSED "EYES" AS LESS BRIGHT THAN REST, BUT NO LUCK ON MOUTH
Could I have seen c.s.? seemed like a stellar area to me, in middle

Observing Log

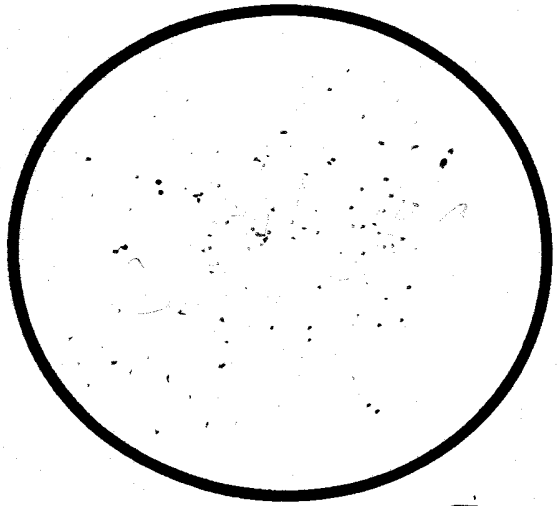
Object type: **Open Cluster**

Object ID: NGC 2286

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/23/4

Time 8:45 CST

Location RMCE

Seeing 7 **Transparency** 5-

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** barely
- **What is the overall shape of the object?** Very scattered
- **How many stars can you count in the cluster?** Limits? I guess 30 ish
- **Are the stars more concentrated in any one particular area?** Few clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** Between glow clumps
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

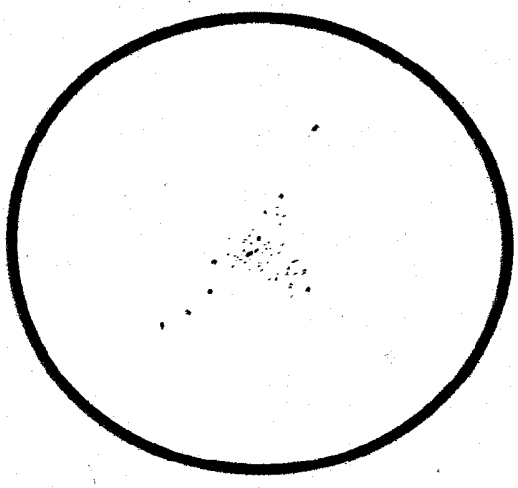
Object type: **Open Cluster**

Object ID: NGC 2301

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/29/3

Time 12:40 CST

Location Home

Seeing 9 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** Fairly
- **What is the overall shape of the object?** Streams or bird w/wings
- **How many stars can you count in the cluster?** 30
- **Are the stars more concentrated in any one particular area?** As shown
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes bright ddl n center 3 blue & white
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2304

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 11:40 pm

Location RMCC

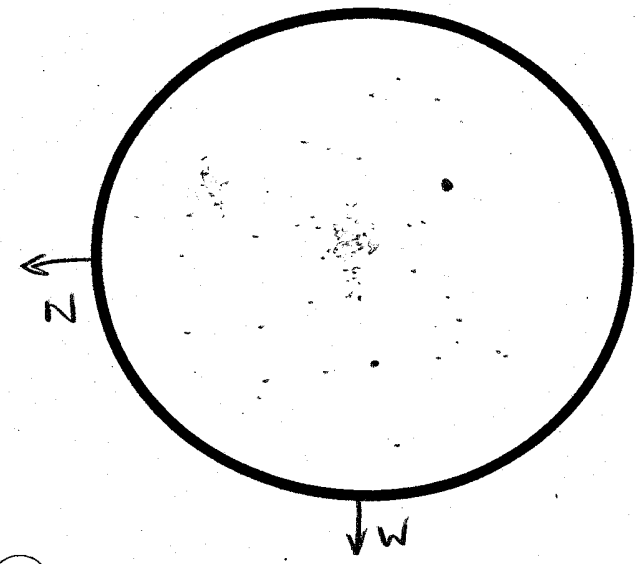
Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?** ND
- **What is the overall shape of the object?** Irregular
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** esp. to N
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Blah

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2311

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 1/23/14

Time 8:50 CST

Location RMCC

Seeing 7 **Transparency** 5-

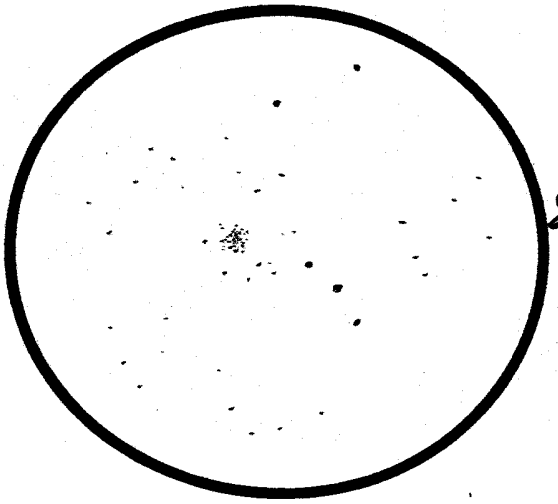
Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

seen in finder as a glow



- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** Roundish w/a "point" @ west side
- **How many stars can you count in the cluster?** ~20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Nearby 3-one is orange
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

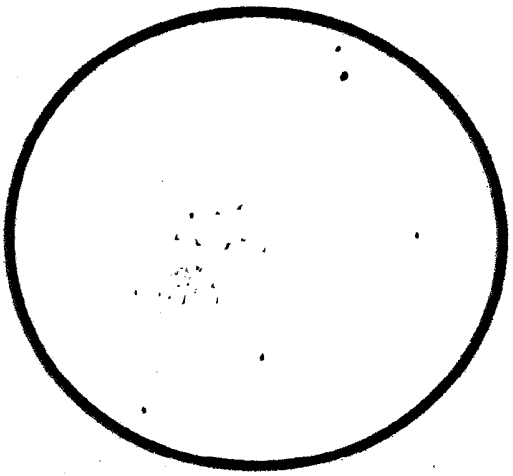
Object type: **Open Cluster**

Object ID: NGC 2324

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/29/3

Time 12:15 CST

Location Home

Seeing 9 **Transparency** 4f

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** X ish
- **How many stars can you count in the cluster?** 15
- **Are the stars more concentrated in any one particular area?** Some middle grouping
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** 6m to North is Yellow & white wide DbI
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

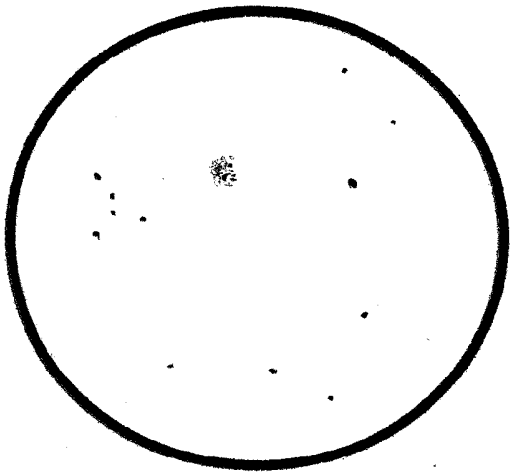
Object type: **Open Cluster**

Object ID: NGC 2335

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/23/4

Time 9:20 CST

Location Ronce

Seeing 7- **Transparency** 3

Instrument EDX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round overall, chunky middle
- **How many stars can you count in the cluster?** 5-10 resolved
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2343

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 1/23/14

Time 9:15 CST

Location RMCC

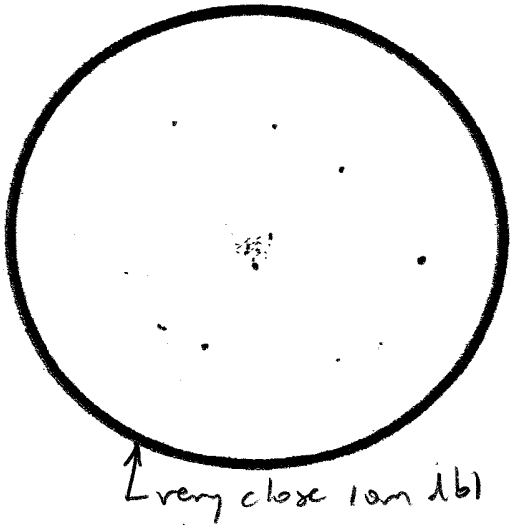
Seeing 7 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** △
- **How many stars can you count in the cluster?** ~15
- **Are the stars more concentrated in any one particular area?** knotty middle
- **Is this cluster resolved fully or is there some background nebulosity noticed?** just a hint of
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

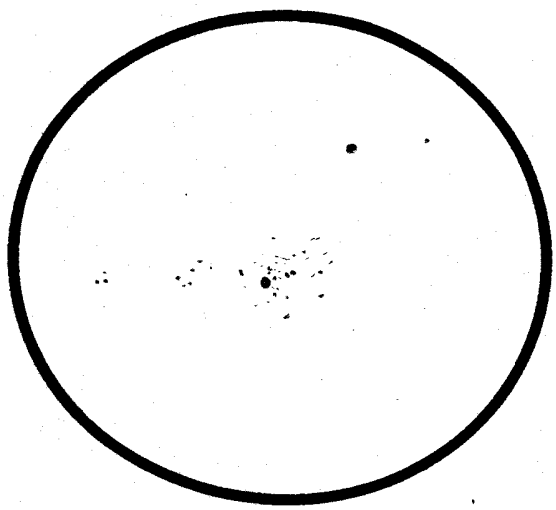
Object type: **Open Cluster**

Object ID: NGC 2353

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/23/4

Time 9:10 CST

Location NMC

Seeing 7 **Transparency** 4-

Instrument BTX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Clump around 4 mag.
- **How many stars can you count in the cluster?** 20-25
- **Are the stars more concentrated in any one particular area?** to NE
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, no
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

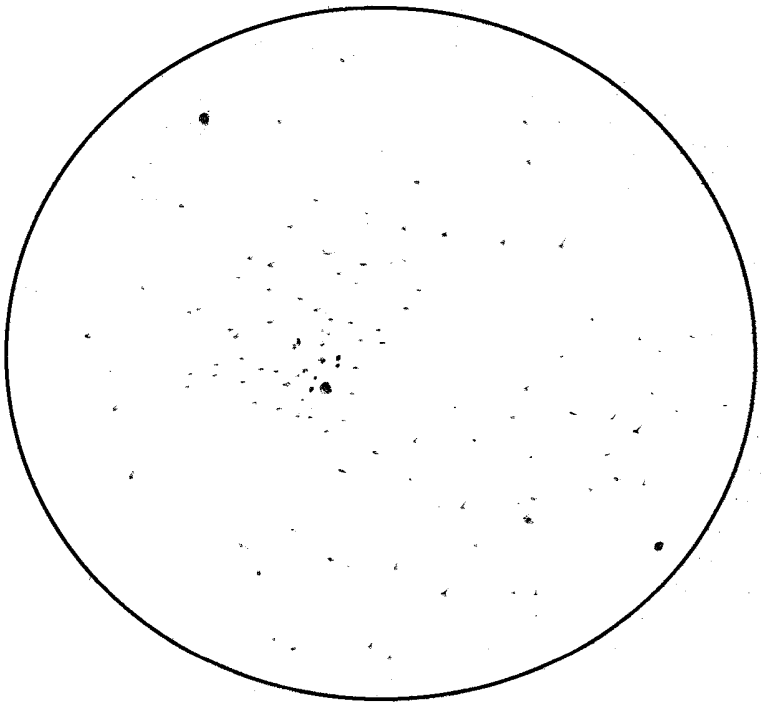
Description _____

(1999 Cole & Pratt)

DATE 3/29/3 **TIME** 7:50 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2353 **LOCATION** (RMCC) HOME _____



Several (~20) stars surrounding 6th mag in a crooked line of 3- neat.

LOCATION: MC's

DATE: 2/17-18/98 TIMES: 9:30-7:00 CST CDT

DESCRIPTION: DAVIDLEFT A15 REFRACTOR

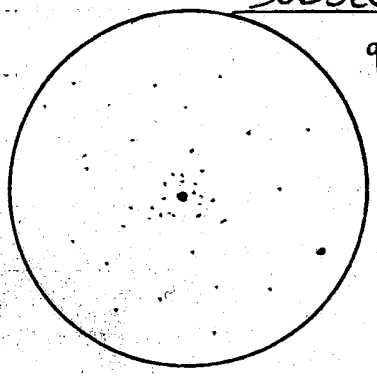
C: I II III IV V

S: I II III IV V

I: EYE 10X50 4.5" OTHER

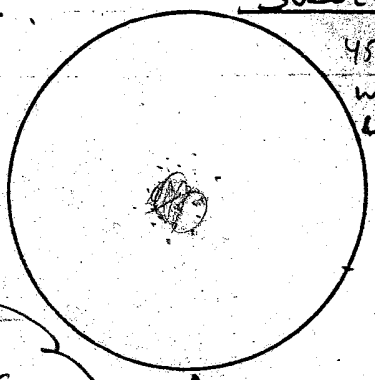
P: 0X 10X 45X 90X 220X 440X

SUBJECT: NGC 2362



90X LOVELY "BEES"

SUBJECT: NGC 2354

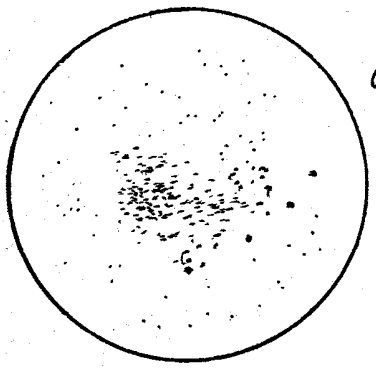


45X GETTING WASHED BY LOW LMOON COMING UP

12:15 am

NGC 2354

SUBJECT: M94



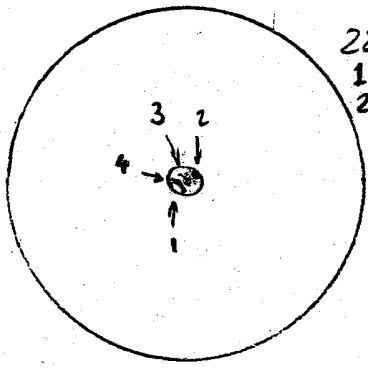
90X GIVES A GREAT VIEW!

M94 IS A GALAXY!

7/27/03 is this M93??

YES

SUBJECT: ♂



220X 1:35am

1: NPC

2: SPC

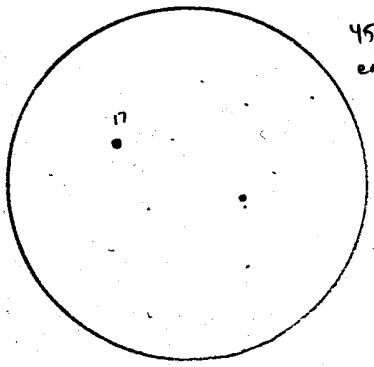
3: X shaped hazy lines

4: DARK SPOT ON NPC

LOOKED AGAIN 5:30

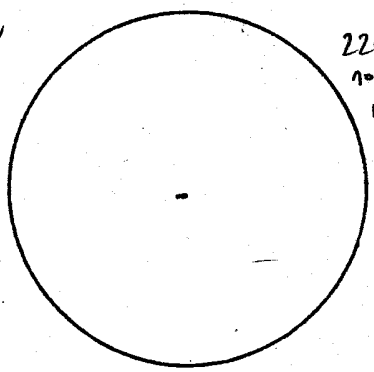
TOO LOW!

SUBJECT: 18 Lib



45X 40° 25" Y + deep yellow easy

SUBJECT: β 119 (Lib)



220X 300° Δm ≈ 0.5

not too difficult

W of two plot pairs

BRAD YOUNG

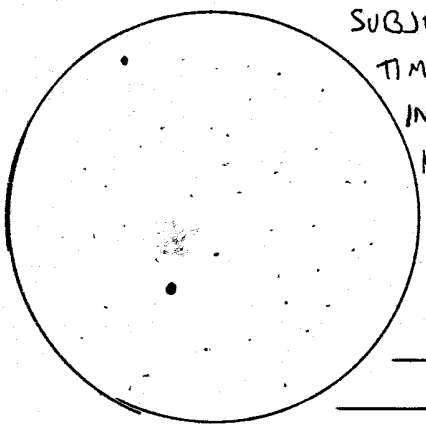
NGC 2355

TULSA, OKLAHOMA

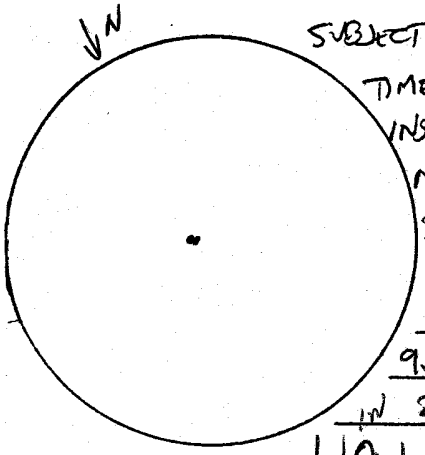
OBSERVATION RECORD

OBSERVATION:
GENERAL NOTES: 2/18/96 AM TIME: 1:15- CST CDT
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: II CLARITY: II
DATE:
LOCATION:

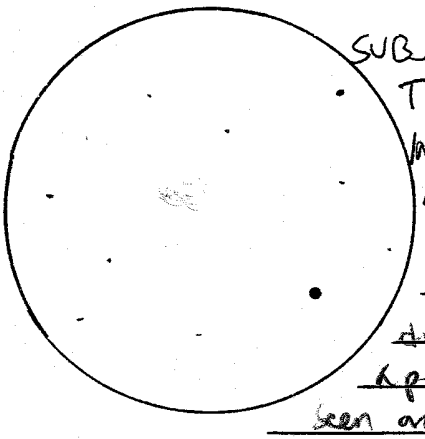


SUBJECT: NGC 2355
TIME: 1:15 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Not impressive, glow + 5 or 6 resolved, 11m →

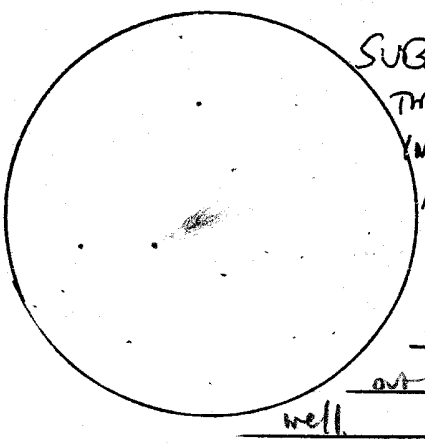


↓N

SUBJECT: AD 98800
TIME: 1:45 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X
TOOK 40 MIN. TO GET IT, BUT I SPLIT 9.5 STAR Z IN 2/96 ASS. p40!
WOW what an effort!
But split 'em PA ~ 40-50°, sep <1" (hairs breadth gap between longer blobosity, but always a double! COOL!



SUBJECT: NGC 4753
TIME: 2:15 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Dim featureless glow to me, dust not even a prayer, but have been another galaxy



SUBJECT: M104
TIME: 2:20 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Nice view from city, REAV brings out "hat" fairly well.

↓N DBLS on WAY to ↑ (45X)

Observing Log

Object type: **Cluster/Nebula**

Object ID: NGC 2360

Const.: CMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/11/4

Time 9:10 CST

Location RMCC

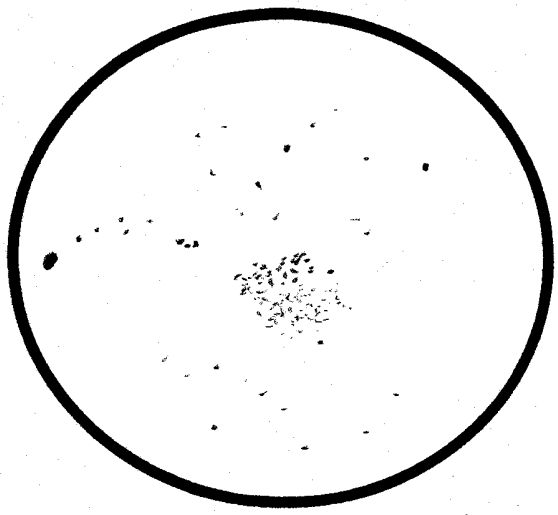
Seeing 7+ **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can both the cluster and nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** Roundish but "flat" on N side
- **Is any part of the outer edge of the ~~nebula~~ cluster sharply defined?** fairly
- **Are the stars more concentrated in any one particular area? How many stars are in the cluster?** ~60-70
- **Is the cluster embedded in the ~~nebulosity~~ or is there a distinct separation?**
- **Is any part of the ~~nebula~~ cluster brighter or more concentrated?** N side noticeably brighter than S
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** low power
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

NOTE NO LEONIDS

11/19 RR's bolide

TULSA, OKLAHOMA

OBSERVATION RECORD SEEN!

OBSERVATION:

GENERAL NOTES:

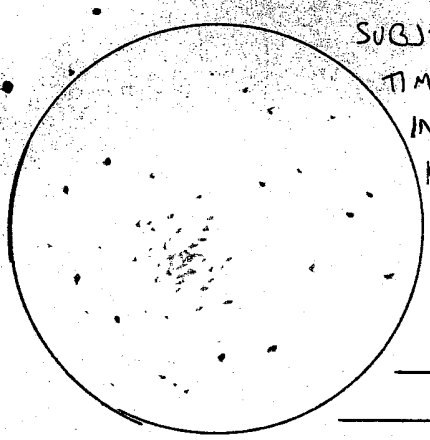
TIME: CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:

DATE: 11/23/cmt

LOCATION: 95

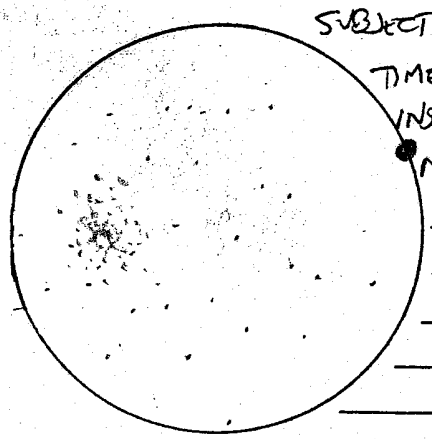


SUBJECT: NGC 2423

TIME: 5:30 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x



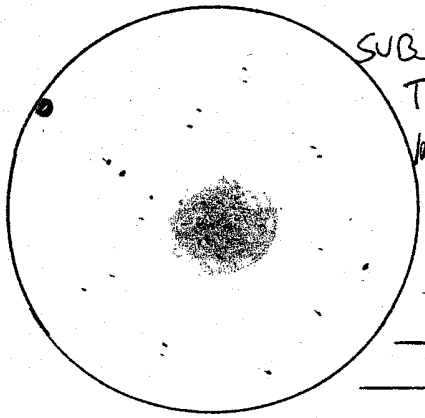
SUBJECT: NGC 2374

TIME: 5:35 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

NGC 2360



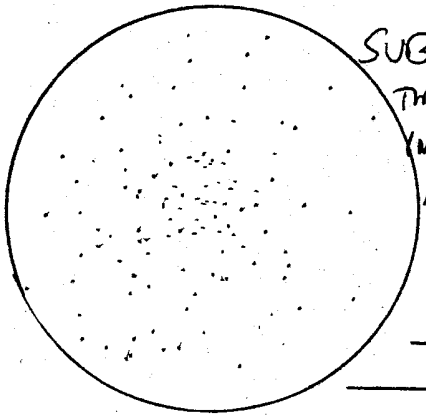
SUBJECT: NGC 2360

TIME: 5:40 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X

ONLY 1/2 AS BIG AS DRAWN



SUBJECT: M48

TIME: 5:45 CST CDT

INSTRUMENT: 4.5

NOTES: 45X

WO!

Observing Log

Object type: **Open Cluster**

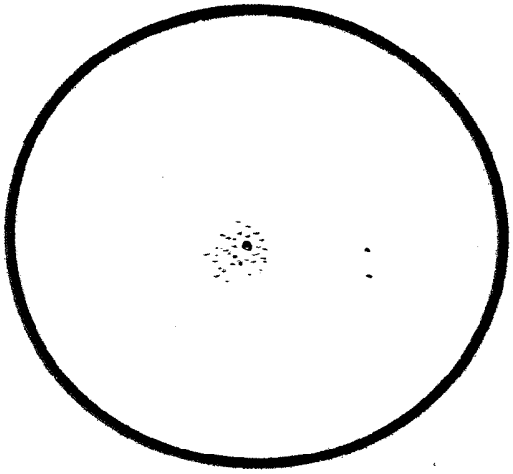
Object ID: NGC 2362 (τ CMa cluster)

Const.: CMa **Observer** BY

RA: _____ **Dec.:** _____ **Date** 11/29/3

Mag: _____ **Size:** _____ **Time** 2130 CST

Location Home



Seeing 9 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be (easily) distinguished from the background stars?**
- **What is the overall shape of the object?** Bees surrounding τ
- **How many stars can you count in the cluster?** 40
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster (resolved fully) or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** τ, ice blue
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

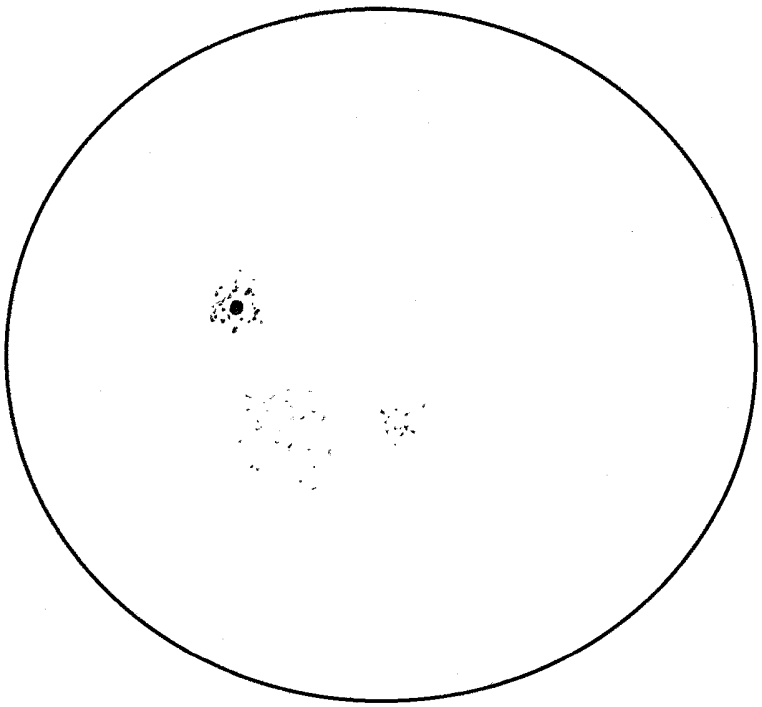
(1999 Cole & Pratt)

windy

DATE 4/4/3 **TIME** 735 (CST) CDT **CLARITY** (I) II III IV V **SEEING** I II III (IV) V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2362 **LOCATION** (RMCC) HOME _____



NGC 2362 small & F CMa. To E I see 1 faint large fuzzy group & then small med. ft. group - not on Trion

LOCATION: MC's

DATE: 2/17-18/94 TIMES: 9:30-7:00 CST

DESCRIPTION: DAVIDSON MS OBSERVATORY

C: I II III IV V

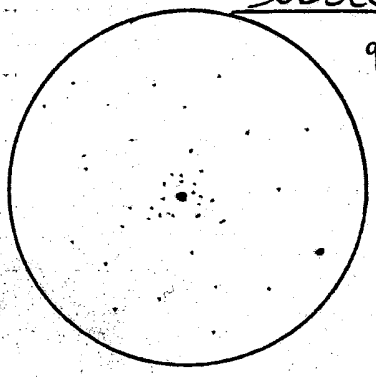
S: I II III IV V

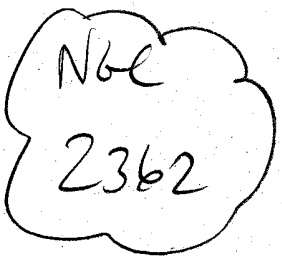
I: EYE 10x50 4.5" OTHER

P: 0X 10X 45X 90X 220X 440X

SUBJECT: NGC 2362

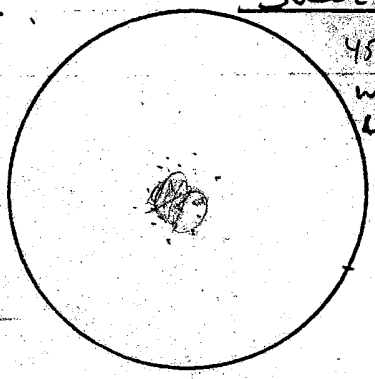
90X LOVELY "BEES"





SUBJECT: NGC 2354

45X GETTING WASHED BY LOW MOON COMING UP

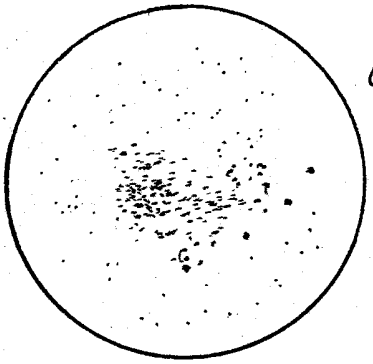


SUBJECT: M94

90X GIVES A GREAT VIEW!

M94 IS A GALAXY!

7/27/03



SUBJECT: ♂

220X 1:35am

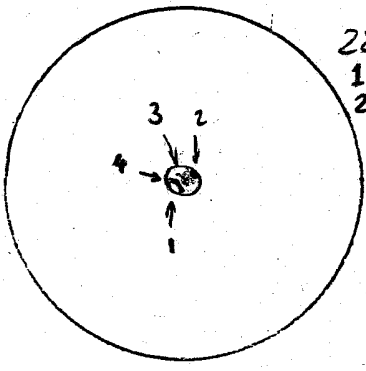
1: NPC

2: SPC

3: X shaped hazy lines

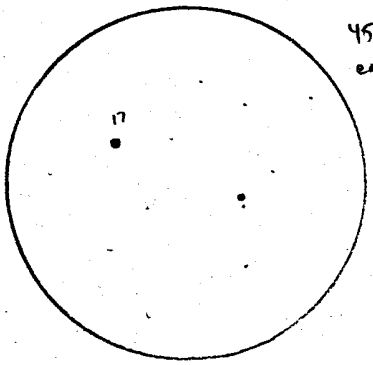
4: DARK SPOT ON NPC

LOOKED AGAIN 5:30 TOO LOW!



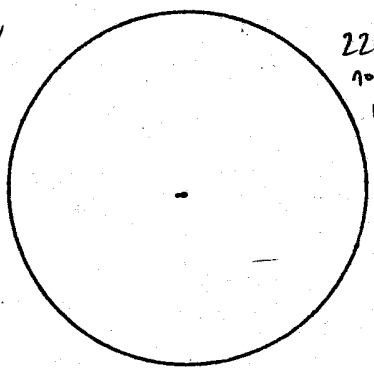
SUBJECT: 1847

45X 40" 25" Y + deep yellow easy



SUBJECT: β 119 (L.6)

220X 300° Δm ≈ 0.5 not too difficult W. of two plot pairs



Observing Log

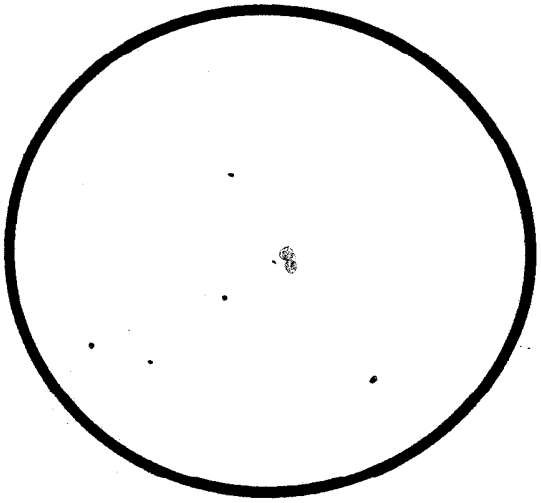
Object type: **Planetary Nebula**

Object ID: NGC 2371/72

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/19/4

Time 12:05 am

Location RMCC (Bortle+4)

Seeing 6 **Transparency** 4

Instrument ETX125

Size 125 f/15

Eyepiece 12.4mm

Field of view _____ **Power** 153 x

w/nf on

D = 27d (not up)

- **What is the overall shape?** 8
- **Is this planetary easy or difficult to identify in your field?** small dim
- **What is the color of this planetary?** grey
- **Is it disk-shaped or is it more stellar in appearance?** 8
- **Are the edges of the disk sharp or diffuse?** fuzzy
- **Is the center brighter, darker, or the same brightness as the edges?** due to "8" effect
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** reqmd
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description filter & power req'd direct vision D-A = no

NO C.S.

(1999 Cole & Pratt)

Observing Log

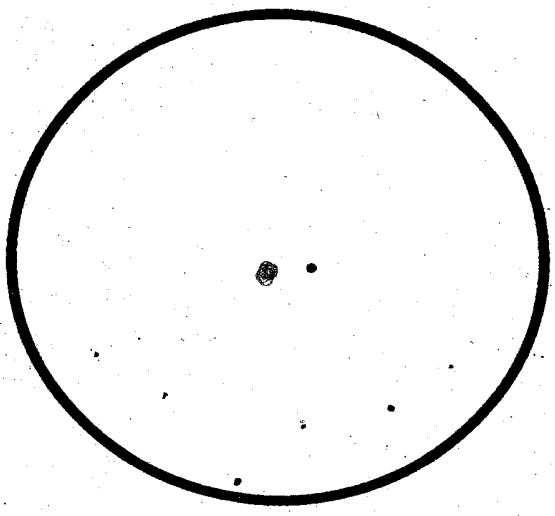
Object type: **Planetary Nebula**

Object ID: NGC 2392

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/29/3

Time 12:00 CST

Location Home

Seeing 8 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

W/ NB Filter

- **What is the overall shape?** Round
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** Gray green
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** fairly
- **Is the center brighter, darker, or the same brightness as the edges?** with C.S. w/AV
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Edges well defined - seems a little hollow in middle

AV brings C.S. - very easy to find near an field star

(1999 Cole & Pratt)

BRAD YOUNG

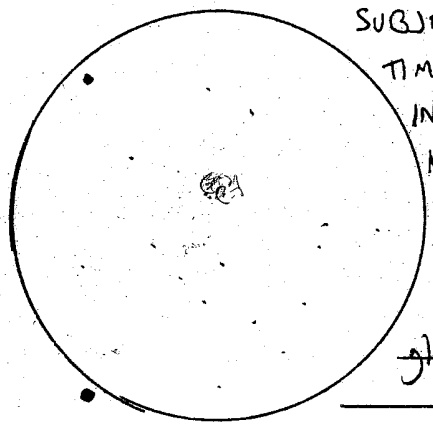
NGC 2392

TULSA, OKLAHOMA

OBSERVATION RECORD

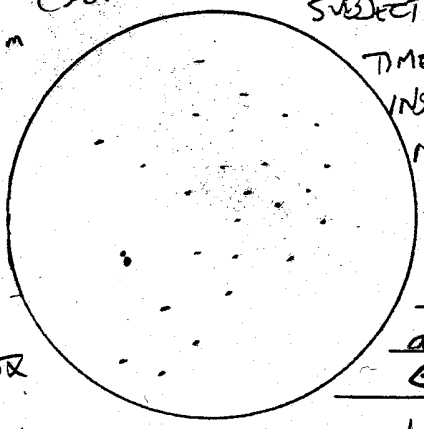
OBSERVATION: From GMa's
GENERAL NOTES:
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 70X 220X 440X
TIME: 2/17/96 CST CDT
SEEING: II CLARITY: II
DATE: 2:00 – 6:45
LOCATION: GMA's

note "Remembering Gemini" (selected objects) 3/96 Ast, p. 66



SUBJECT: NGC 2266
TIME: 2:10 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X seen, but seeing getting poor this low, just glow at ~10m.

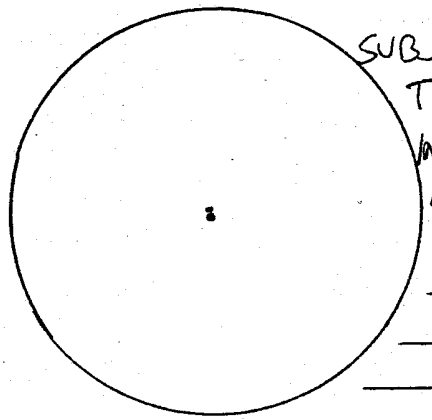
pl. 8m



SUBJECT: NGC 2420
TIME: 2:45 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X to get dbl. Used low power to see cluster as Poor, brightish, not a spectacle

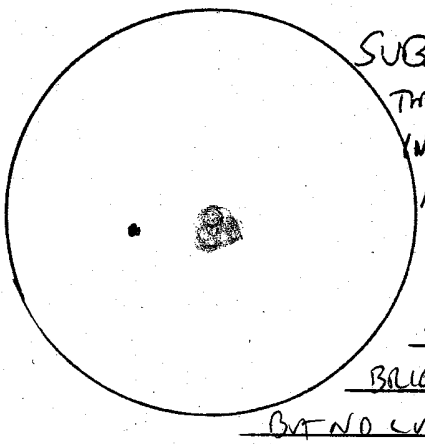
45X

1/2 fl



SUBJECT: 8m dbl 1° neat
TIME: 2:30 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X ~8.5+9, ~240° ~5"? Not sure.

N



SUBJECT: NGC 2392
TIME: 3:00 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X BELIEVE I GLIMPSED "EYES" AS LESS BRIGHT THAN REST, BUT NO LUCK ON MOUTH
Could I have seen c.s.? seemed like a stellar area to me, in middle

Observing Log

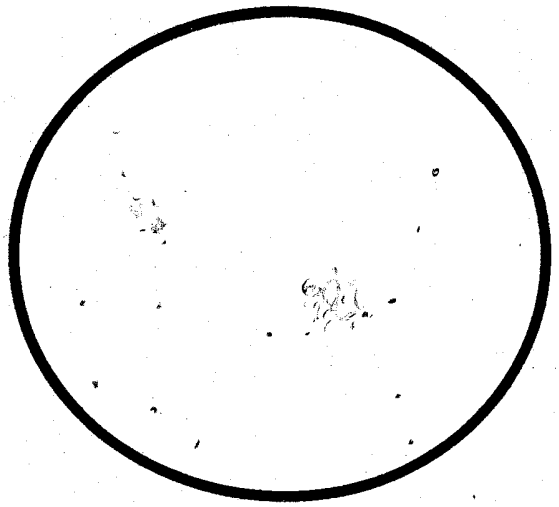
Object type: **Open Cluster**

Object ID: NGC 2395

Const.: Gem

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 11:50 pm

Location Rnce

Seeing 6 **Transparency** 4-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** No
- **What is the overall shape of the object?** Irregular
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

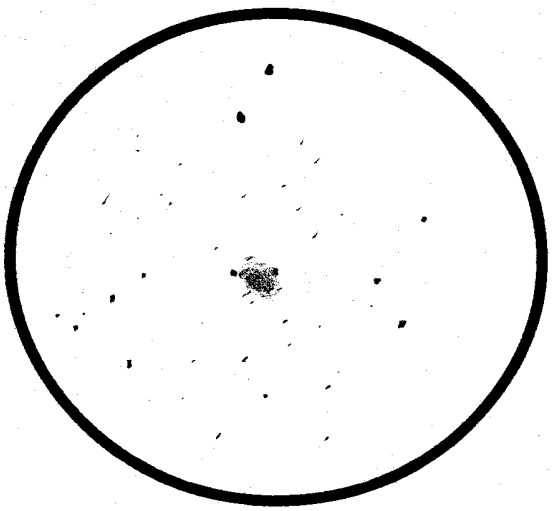
Object type: **Galaxy**

Object ID: NGC 2403

Const.: Cam

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/4

Time 8:05 pm CST

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

Also used 73x, 73x + nbf

153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Only @ 153x
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** several fs overlay & mostly wisps
- **Are the edges of the outer envelope sharp or diffuse?** (med)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** yes
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Wow! even @ 153x very bright

(1999 Cole & Pratt)

Observing Log

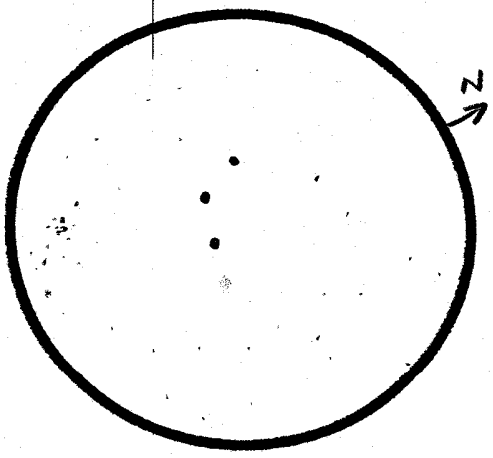
Object type: **Globular Cluster**

Object ID: NGC 2419

Const.: Lyn

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 1/10/4

Time 8:00 CST

Location RNCC

Seeing 5 (wind) **Transparency** 6

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this cluster be seen with direct vision, or is averted vision required?** Wind "brings it out"
- **Is the core unusually bright, compact or not distinguishable?** just an unresolved glow
- **Is this globular cluster highly or loosely concentrated?** preserved
- **Is any part of the cluster resolved into stars?** No.
- **Is any mottling visible?** Barely
- **Can the edges be resolved?** No.
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Seen but cannot resolve - it is noticeably "globular" in glow - not a galaxy

Interesting little group to SE as shown

(1999 Cole & Prust)

BRAD YOUNG

NGC 2420

TULSA, OKLAHOMA

OBSERVATION RECORD

OBSERVATION: From GMa's

SEEING: II CLARITY: II

GENERAL NOTES:

TIME: 2/17/96 CST CDT

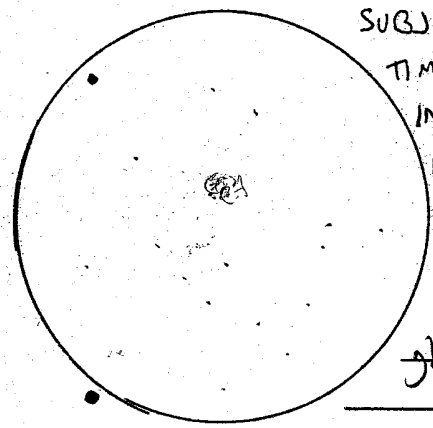
DATE: 2:00 – 6:45

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 70X 220X 440X

LOCATION: GMA's

or note

"Remembering Gemini" (selected objects) 3/96 Ast, p. 66



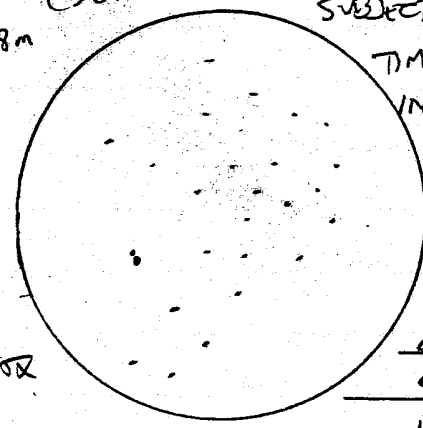
SUBJECT: NGC 2266

TIME: 2:10 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X seen, but seeing getting poor this low, just glow at ~10m.

pl. 8m



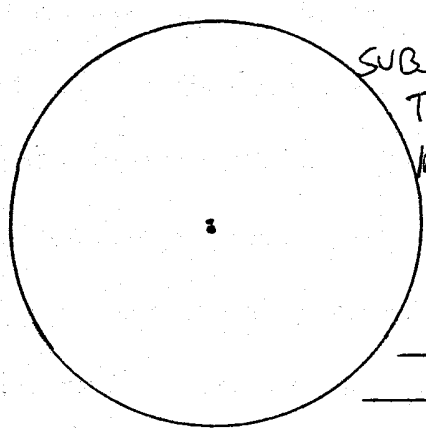
SUBJECT: NGC 2420

TIME: 2:45 CST CDT

INSTRUMENT: 4.5"

NOTES: 220X to get dbl. Used low power to see cluster as poor, brightish, not a spectacle

45X



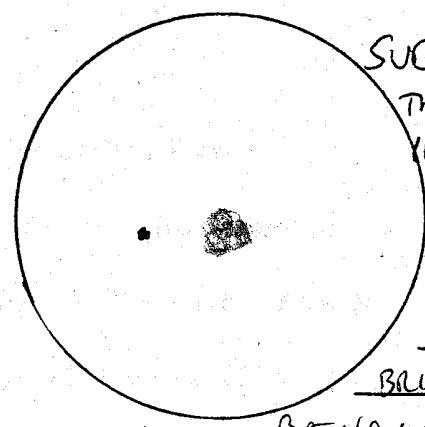
SUBJECT: 8m dbl 1° next

TIME: 2:30 CST CDT

INSTRUMENT: 4.5"

NOTES: 220X ~8.5+9, ~240° ~5"? Not sure.

N



SUBJECT: NGC 2392

TIME: 3:00 CST CDT

INSTRUMENT: 4.5"

NOTES: 220X BELIEVE I GLIMPSED "EYES" AS LESS BRIGHT THAN REST, BUT NO LUCK ON MOUTH

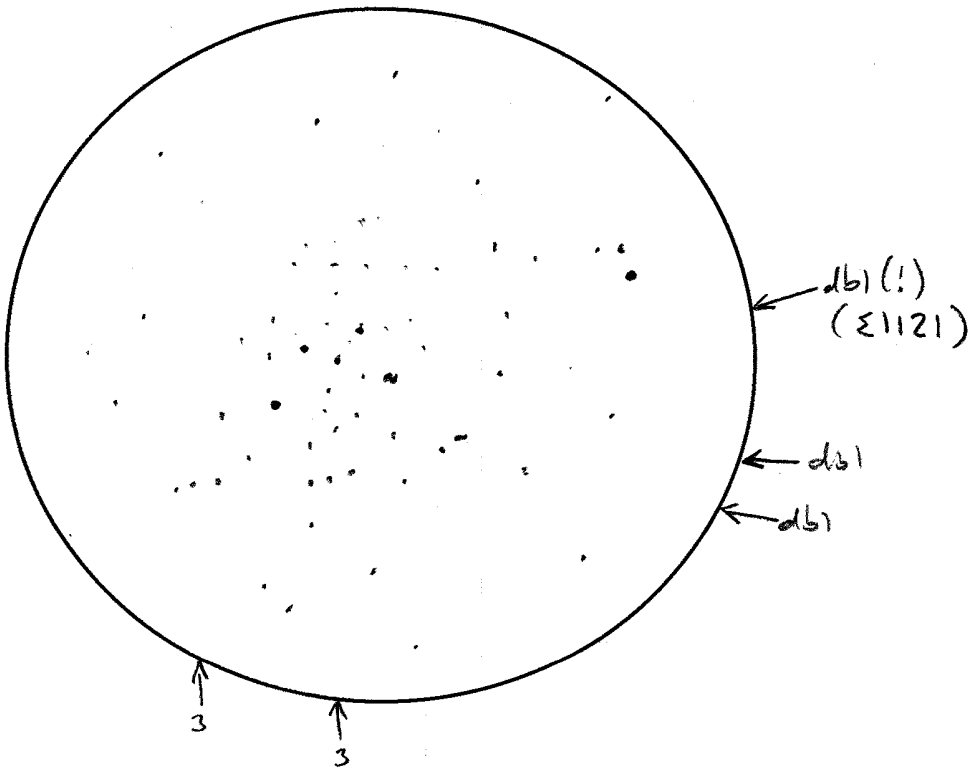
Could I have seen c.s.? seemed like a stellar area to me, in middle

NGC 2422

DATE 3/29/13 **TIME** 7:30 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT M47 **LOCATION** RMCO HOME _____



Just wonderful. Fills field, lovely doubles

Observing Log

Object type: **Cluster/Nebula**

Object ID: NGC2423

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 3/1/14

Mag: _____ **Size:** _____ **Time** 8:55 CST

Location RMCE

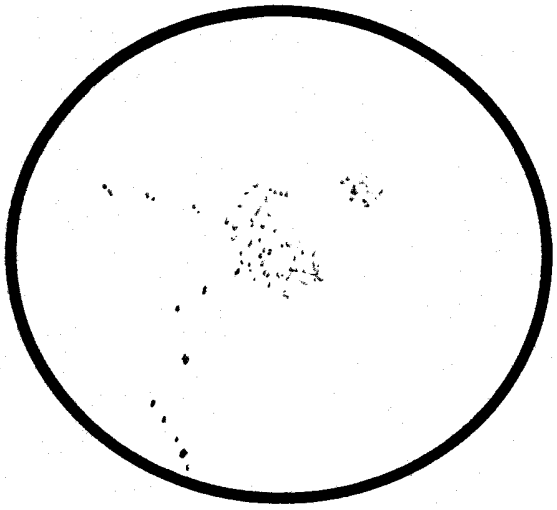
Seeing 7 **Transparency** 4

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can both the cluster and ~~nebula~~ be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** wide C w/gulf-another "clump" to E
- **Is any part of the outer edge of the nebula sharply defined?**
- **Are the stars more concentrated in any one particular area? How many stars are in the cluster?** ~50 ↑ gulf
- **Is the cluster embedded in the nebulosity or is there a distinct separation?** some haze of unresolveds
- **Is any part of the nebula brighter or more concentrated?** Cluster is even
- **Is there any particular area where you notice an absence of stars in this cluster?** yes "gulf"
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** low power
- **Are there any other deep-sky objects in the same field of view? If so, what?** M47 due S

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

NOTE NO LEAVIDS

11/19 RR's bolide

TULSA, OKLAHOMA

OBSERVATION RECORD SEEN!

OBSERVATION:

GENERAL NOTES:

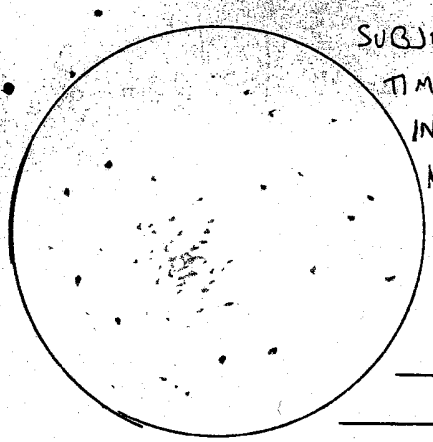
TIME: CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:

DATE: 11/23/cont

LOCATION: 95

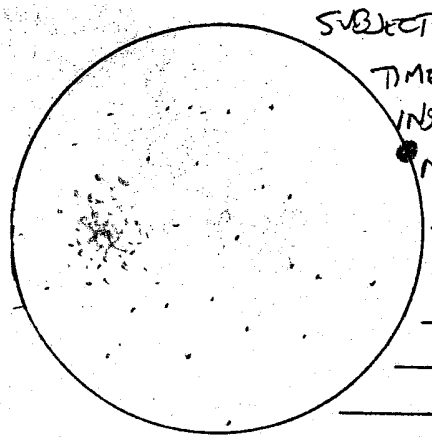


SUBJECT: NGC 2423

TIME: 5:30 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x



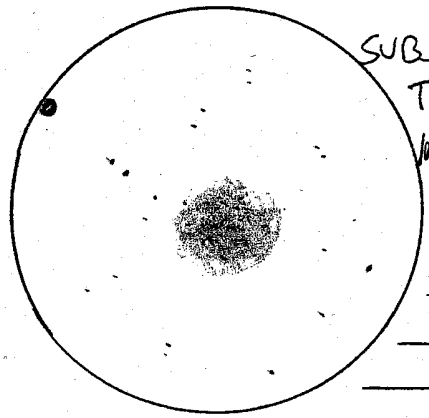
SUBJECT: NGC 2374

TIME: 5:35 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

NGC 2423



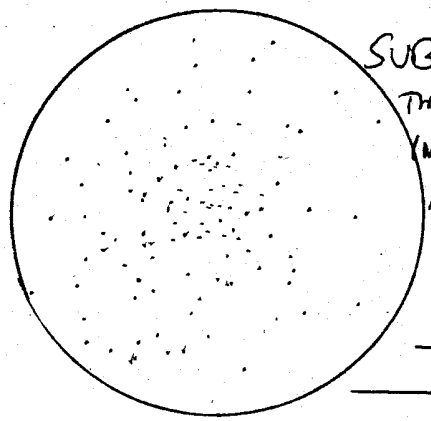
SUBJECT: NGC 2360

TIME: 5:40 CST CDT

INSTRUMENT: 4.5"

NOTES: 45x

ONLY 1/2 AS BIG AS DRAWN



SUBJECT: M48

TIME: 5:45 CST CDT

INSTRUMENT: 4.5

NOTES: 45x

WO!

Observing Log Planetary

Object type: **Cluster/Nebula**

Object ID: M46/NGC 2438

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 3/11/4

Mag: _____ **Size:** _____ **Time** 9:00 CST

Location RMCC

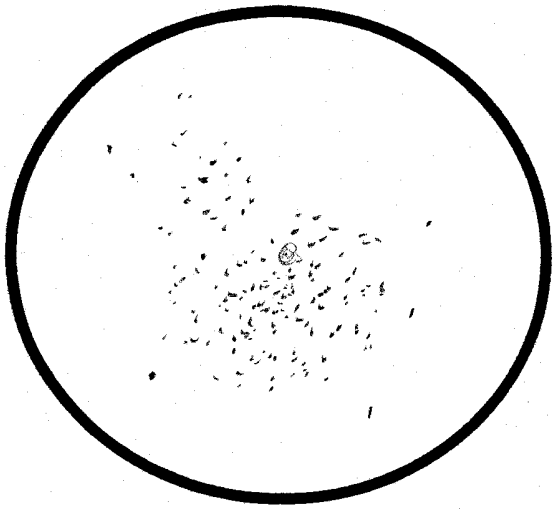
Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can both the cluster and nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** Beautiful round w/ ex to NW
- **Is any part of the outer edge of the nebula sharply defined?** No
- **Are the stars more concentrated in any one particular area? How many stars are in the cluster?** No 150+
- **Is the cluster embedded in the nebulosity or is there a distinct separation?** Neb on cluster
- **Is any part of the ~~nebula~~ cluster brighter or more concentrated?** No – very even
- **Is there any particular area where you notice an absence of stars in this cluster?** None
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** Some lanes but very even
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** see next
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Cluster/Nebula**

Object ID: NGC 2438

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 3/11/4

Mag: _____ **Size:** _____ **Time** 9:05 CST

Location RMCC

Seeing 7 **Transparency** 4+

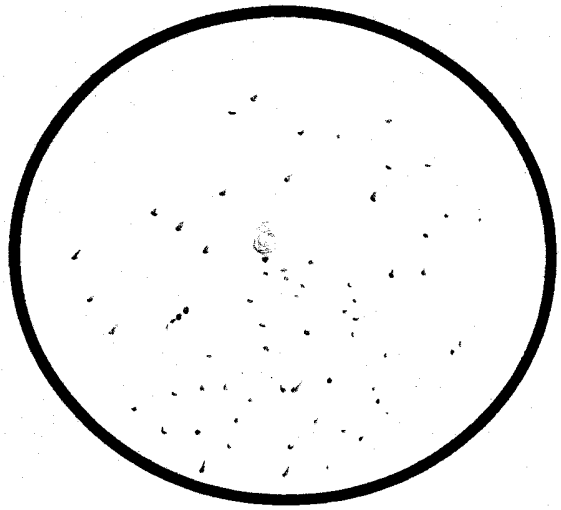
Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

+ n.b. filter



- **Can both the cluster and nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** Neb round w/ "smoke hole" effect
- **Is any part of the outer edge of the nebula sharply defined?** Yes
- **Are the stars more concentrated in any one particular area? How many stars are in the cluster?** —
- **Is the cluster embedded in the nebulosity or is there a distinct separation?** Neb appears in cluster
- **Is any part of the nebula brighter or more concentrated?** No - hole in middle
- **Is there any particular area where you notice an absence of stars in this cluster?** —
- **Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?** —
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description _____

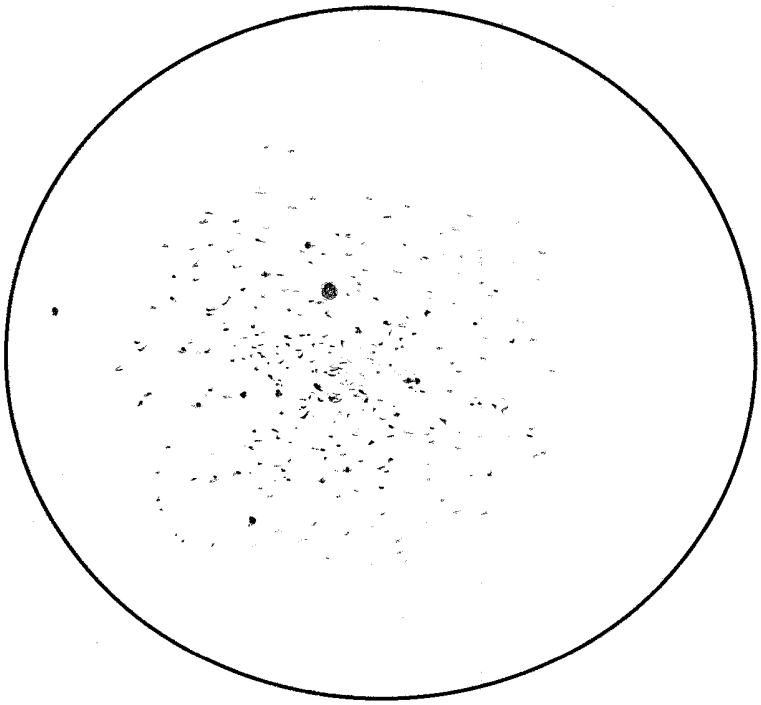
(1999 Cole & Pratt)

NGC 2438

DATE 3/29/3 **TIME** 7:40 CST CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M46 + NGC 2438 **LOCATION** (RMCC) HOME _____



w/filter NGC 2438 really jumps out – was easy anyway w/o filter w/a.v.

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2479

Const.: Pup

RA: 7h55.1m **Dec.:** −17°42'.5

Mag: _____ **Size:** _____

Observer BY

Date 3/28/4

Time 8:35 pm CST

Location Home

Seeing 6+ **Transparency** 5

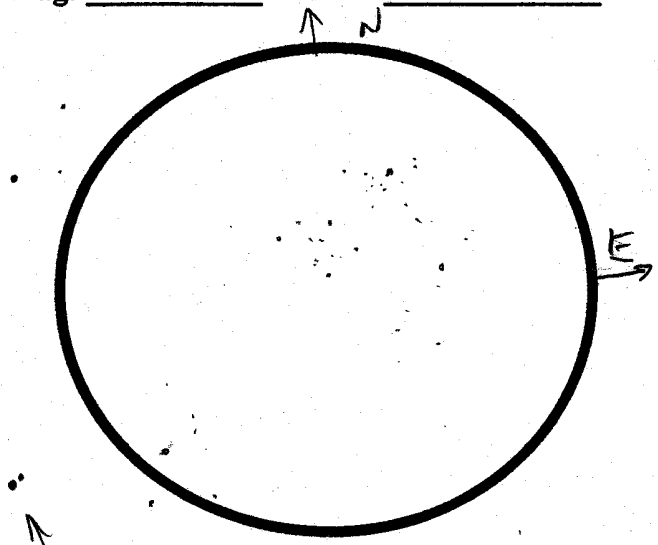
Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

FQ Moon 50° away



next dbl

- **Can this cluster be easily distinguished from the background stars?** no because faint but field - yes
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** 15-20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

20:49:15
47x
easy & fast ~7-8 mag
steady
x = cluster pos
mark = dire E of 8 mdbl

Description Kept looking for a small, faint glow, its the clump of 15-20 11m's near 2 10mags shown
Very unimpressive, faint & loose

(1999 Cole & Pratt)

Observing Log

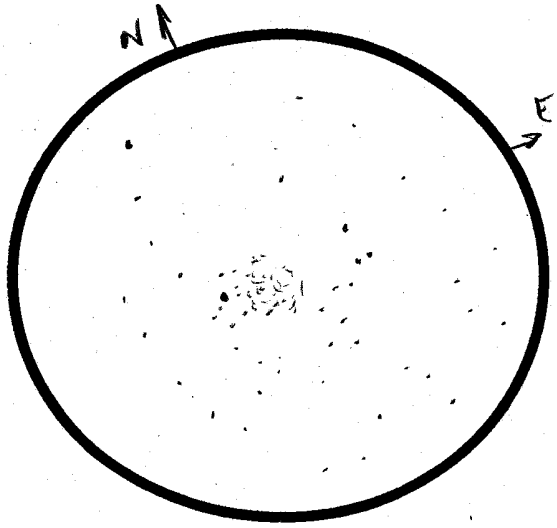
Object type: **Open Cluster**

Object ID: NGC 2482

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 7:40pm

Location RMCe

Seeing 5 **Transparency** 3

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** Not easily
- **What is the overall shape of the object?** Irregular
- **How many stars can you count in the cluster?** 20 +
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Orange to B
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2489

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 8:05 pm

Location RMCC

Seeing 5 **Transparency** 4

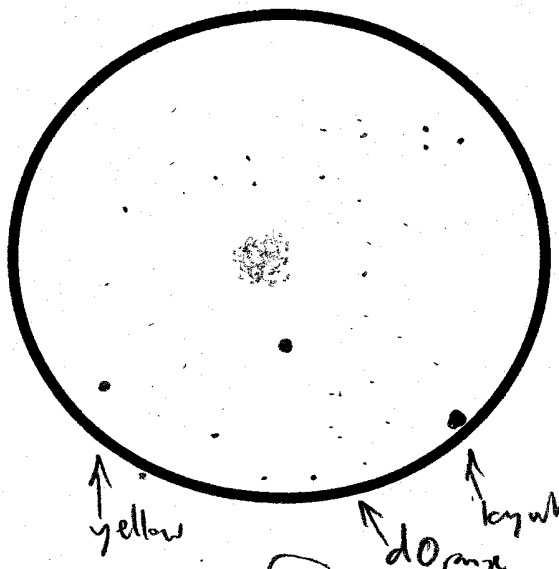
Instrument C8 XLT 25

Size 125

Eyepiece 40

Field of view _____ **Power** 47

Note: with fire trucks at bottom of hill for grass fires



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** Few resolved - maybe 10
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background (mostly) nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** See dwg d=deep
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Beautiful delicate - like a loose unres. globular

(1999 Cole & Pratt)

Observing Log

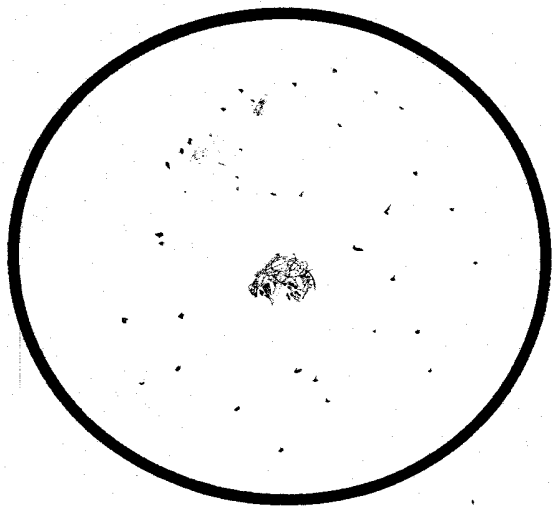
Object type: **Open Cluster**

Object ID: NGC 2506

Const.: Mon

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/14

Time 9:30 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this cluster be easily distinguished from the background stars?** Fairly well
- **What is the overall shape of the object?** Horseshoe
- **How many stars can you count in the cluster?** 10-15 + significant glow
- **Are the stars more concentrated in any one particular area?** 2 or 3 clumps
- **Is this cluster resolved fully or is there some background nebulosity noticed?** Yes
- **Is there any particular area where you notice an absence of stars in this cluster?** Under ∩
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Small - 47x. Faint a bit cramped but bright

(1999 Cole & Pratt)

Observing Log

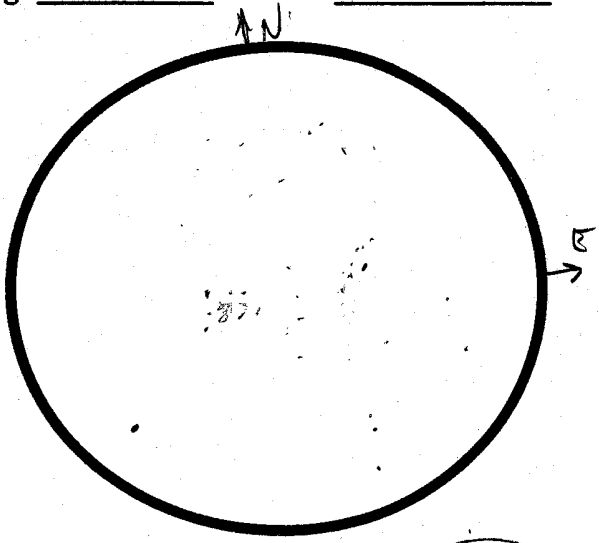
Object type: **Open Cluster**

Object ID: NGC 2509

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/28/4

Time 8:00 CST

Location HOME (!)

Seeing 6 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

FQ MOON 45° away

- **Can this cluster be easily distinguished from the background stars?** fairly
- **What is the overall shape of the object?** "Bee" in a box
- **How many stars can you count in the cluster?** 10 resolved
- **Are the stars more concentrated in any one particular area?** within quadrangle
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nice "line" effect

For match w/ BAA Ferris web site drawing

(1999 Cole & Pratt)

Observing Log

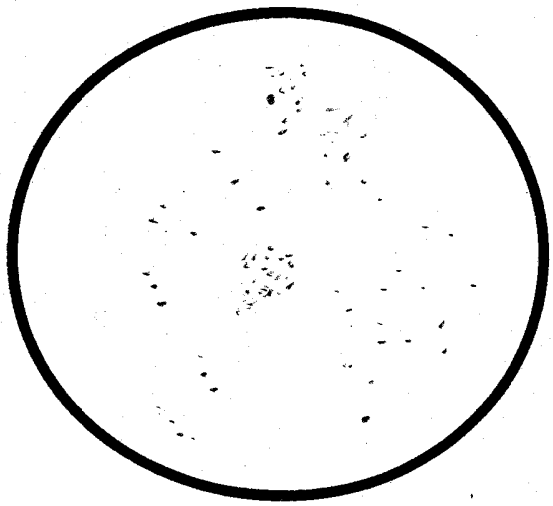
Object type: **Open Cluster**

Object ID: NGC 2527

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 8:15 pm

Location RMCC

Seeing 5 **Transparency** 4

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** (fairly)
- **What is the overall shape of the object?** ½ heart (sort of)
- **How many stars can you count in the cluster?** 20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** E to NE
- **Is there any particular area where you notice an absence of stars in this cluster?** "W" half
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

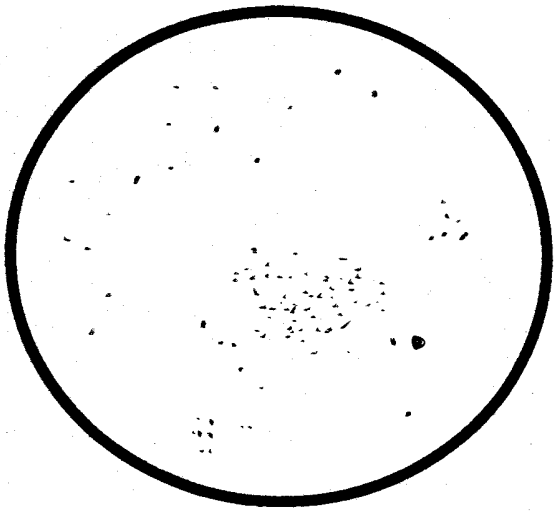
(1999 Cole & Pratt)

Object ID: NGC 2134

Const.: Pup

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/04

Time 9:25 CST

Location RMCC

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can both the cluster and nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? Fairly oval – off to NW from 19
- Is any part of the outer edge of the ~~nebula~~ cluster sharply defined? No
- Are the stars more concentrated in any one particular area? How many stars are in the cluster? Knots – ~ 50
- Is the cluster embedded in the nebulosity or is there a distinct separation? N/A
- Is any part of the ~~nebula~~ cluster brighter or more concentrated? No – fairly even – completely resolved
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the ~~nebula~~ cluster? Any bright ~~filaments or streamers~~? a few knots
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? low power
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description 19 Pup orange

(1999 Cole & Pratt)

Observing Log

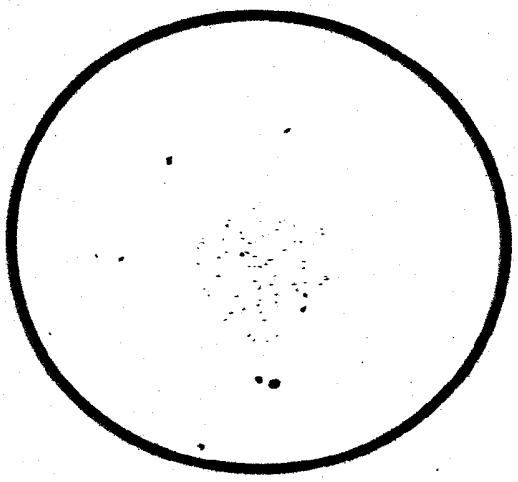
Object type: **Open Cluster**

Object ID: NGC 2539

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 11/29/3

Time 2:10 CST

Location Home

Seeing 9 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Round
- **How many stars can you count in the cluster?** 50
- **Are the stars more concentrated in any one particular area?** No.
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes, Orange
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

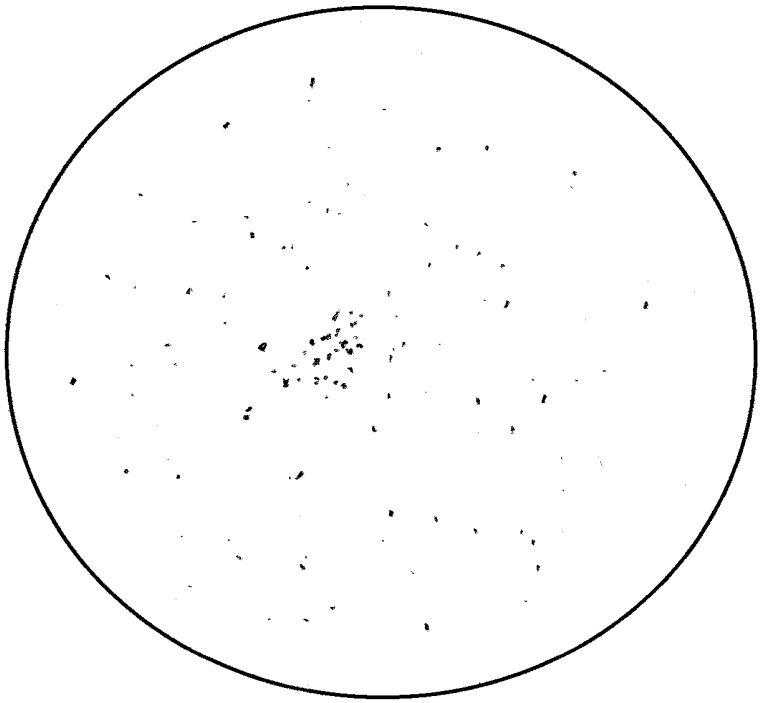
(1999 Cole & Pratt)

NGC 2548

DATE 3/29/3 **TIME** 9:30 (CST) CDT **CLARITY** (I) II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M48 **LOCATION** (RMCC) HOME _____



FILLS FIELD — CORE DETAILED

Observing Log

Object type: **Open Cluster**

Object ID: NGC 2567

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 8:30 pm

Location RMCC

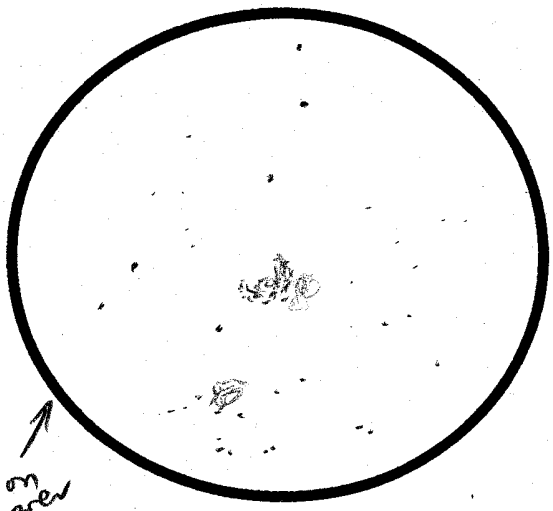
Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** U + extension to E
- **How many stars can you count in the cluster?** 20 + glow
- **Are the stars more concentrated in any one particular area?** in U
- **Is this cluster resolved fully or is there some background nebulosity noticed?** esp to E w/AV
- **Is there any particular area where you notice an absence of stars in this cluster?** No, (in cupola U)
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description "String" of 12m seen very barely

(1999 Cole & Pratt)

Observing Log

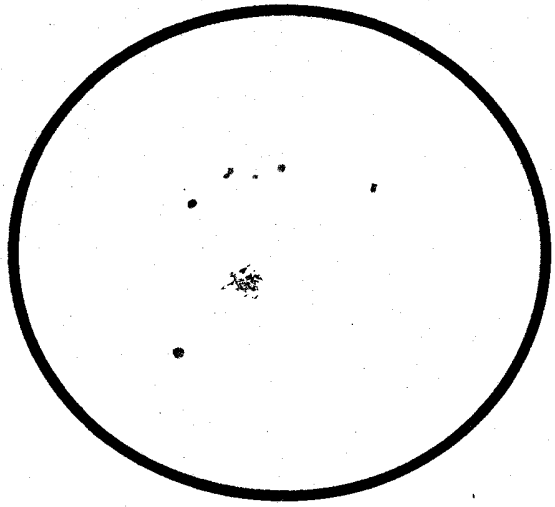
Object type: **Open Cluster**

Object ID: NGC 2571

Const.: Pup

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 8:20 pm

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

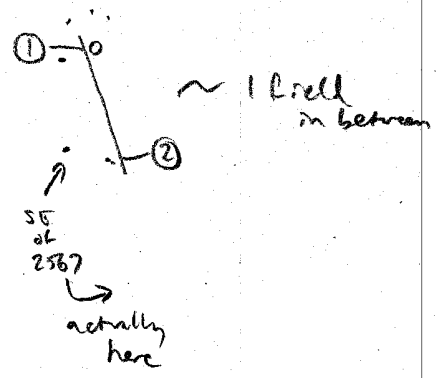
Eyepiece 40

Field of view _____ **Power** 47

sat thru view (10→8→10 cycle)

① 20:18:11

② 20:18:19



- **Can this cluster be easily distinguished from the background stars?**
- **What is the overall shape of the object?** Bees round
- **How many stars can you count in the cluster?** 12
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?** none
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No, but field nearby a great

Description "C" asterism seen - small but didn't push power due to wind.

(1999 Cole & Pratt)

Observing Log

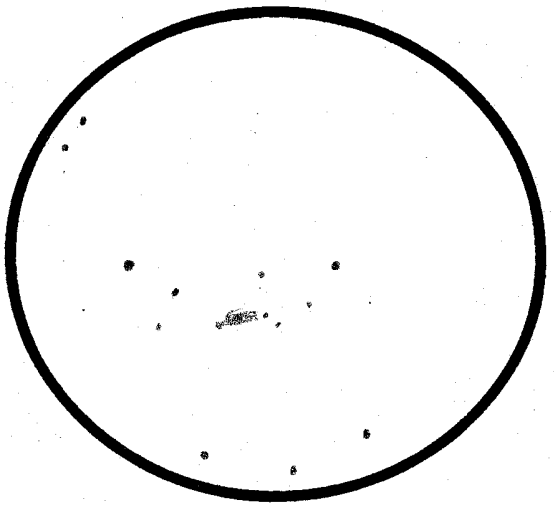
Object type: Galaxy

Object ID: NGC 2613

Const.: Pyx

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 9:40 CDT

Location RMCL

Seeing 4 **Transparency** 5-

Instrument E7 X 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?** helps a lot
- **What is the overall shape?** Very elong. smudge
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Rich Star Field

(1999 Cole & Pratt)

Observing Log

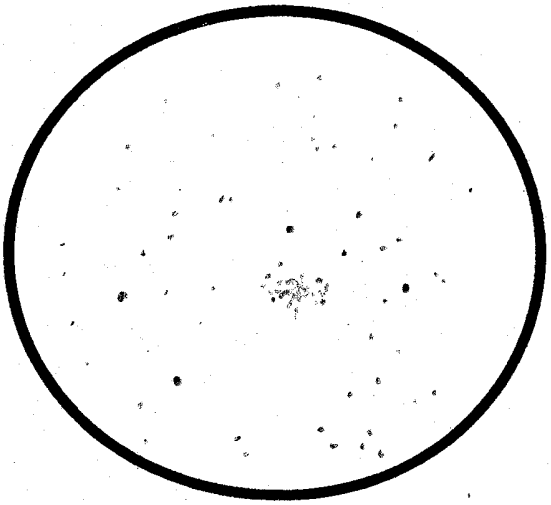
Object type: **Open Cluster**

Object ID: NGC 2627

Const.: Pyx

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 9:20 CDT

- **Location** RMCC

Seeing 4 **Transparency** 5-

Instrument 8"x12.5

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this cluster be easily distinguished from the background stars?** not easily
- **What is the overall shape of the object?** Loose
- **How many stars can you count in the cluster?** ~20
- **Are the stars more concentrated in any one particular area?** No
- **Is this cluster resolved fully or is there some background nebulosity noticed?**
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Loose glow

(1999 Cole & Pratt)

Observing Log

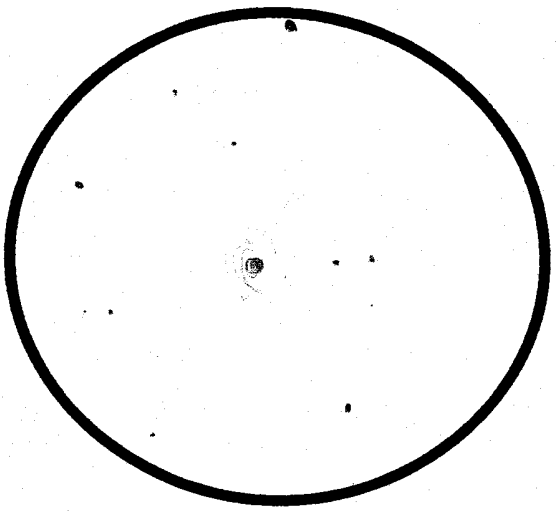
Object type: **Galaxy**

Object ID: NGC 2655

Const.: Cam

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 10:15 CDT

Location RMCE

Seeing 7+ **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** bring out "arms"
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of spiral face-on
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Hopped right to it!

(1999 Cole & Pratt)

Observing Log

Object type: Galaxy

Object ID: NGC 2681

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 9:00

Location RMCC

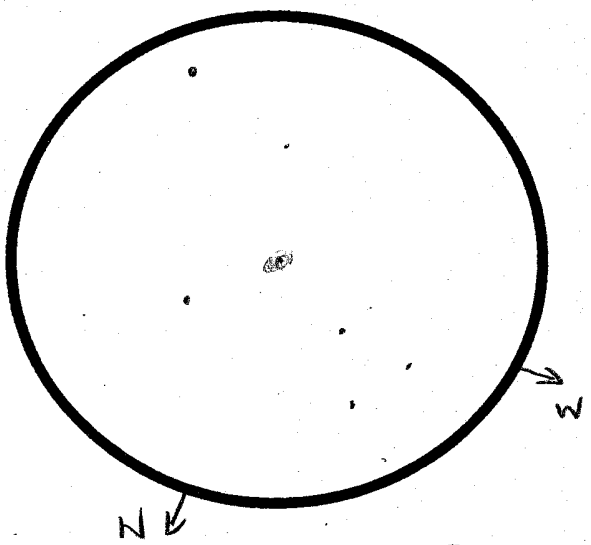
Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 83



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** pinpoint stellar
- **Can any detail be seen between the core and the outer envelope of the object?** slight mottle
- **Are the edges of the outer envelope sharp (fairly) or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** slight mottle
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

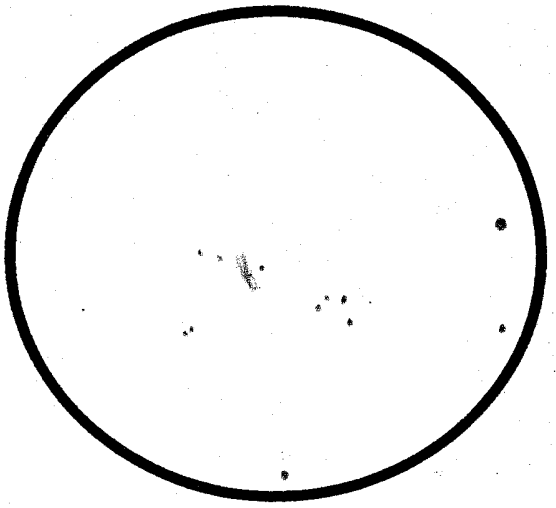
Object type: **Galaxy**

Object ID: NGC 2683

Const.: Lyn

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 10:30 CDT

Location RMCC

Seeing 4 **Transparency** 5-

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** very elong.
- **Is a core noticeable?** Slightly – see next
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints – see next
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** See next
- **Are there any other deep-sky objects in the same field of view? If so, what?** N,

Description _____

(1999 Cole & Pratt)

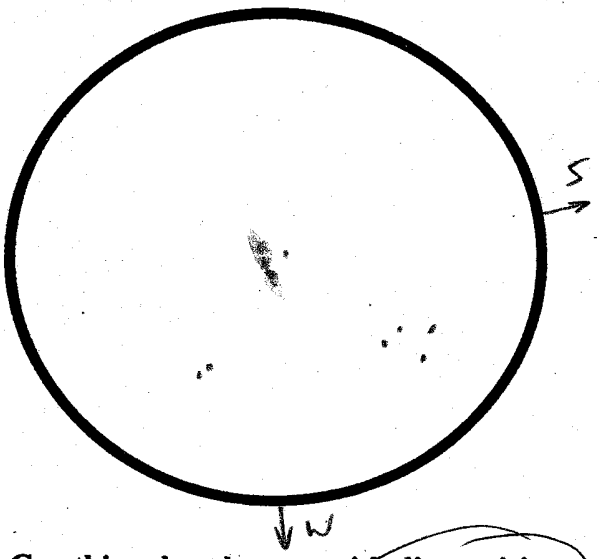
Observing Log

Object type: **Galaxy**

Object ID: NGC 7683

Const.: Lyn **RA:** _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 10:35 CDT

Location RMCC

Seeing 4 **Transparency** 4+

Instrument ~~ETX~~ 125

Size 125

Eyepiece 25

Field of view _____ **Power** ~~73X~~

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes - see above - 2 bright condensed areas + 1 diffuse section
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?**
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

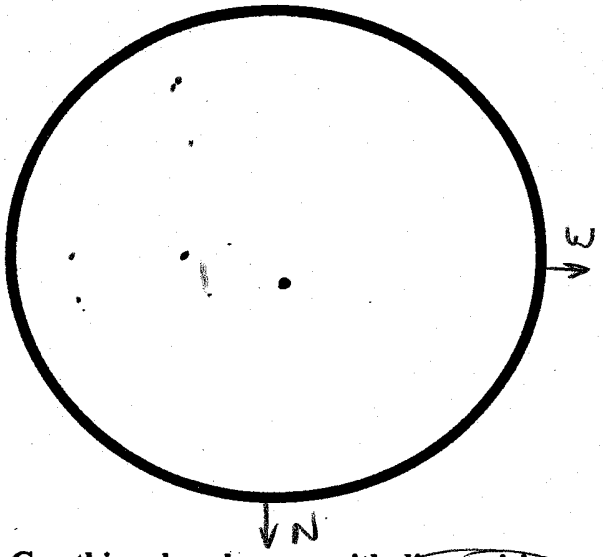
Object type: **Galaxy**

Object ID: NGC 2742

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:15 pm

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision (helps a lot) required?**
- **What is the overall shape?** Very elongated
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or (fairly) diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Might've seen slightly larger N side of amorphous swoosh. Dim but not hard, small. I don't see a "conspicuous core"

(1999 Cole & Pratt)

SEE NEXT PAGE

Observing Log

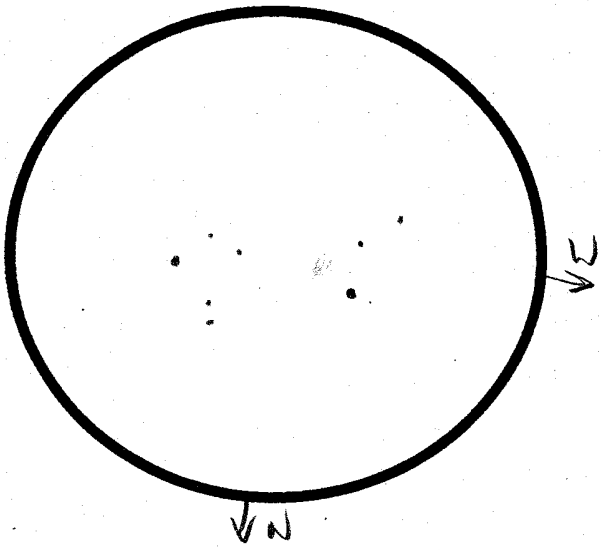
Object type: **Galaxy**

Object ID: NGC 2742

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:20

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elongated
- **Is a core noticeable?** slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Here not as shown w/47x - REAV

Other view an error

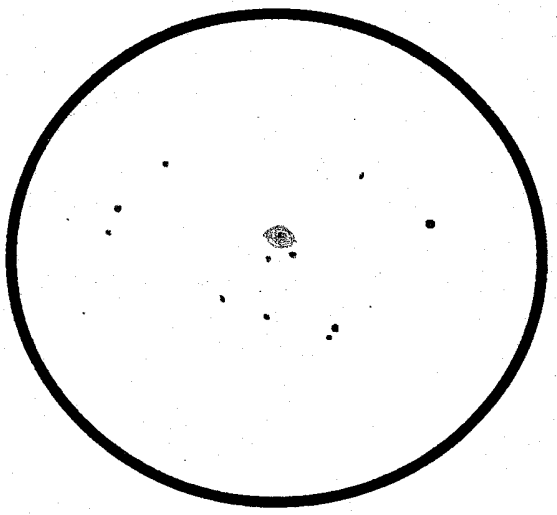
(1999 Cole & Pratt)

Object ID: NGC 2768

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:25

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** round
- **Is a core noticeable?** yes
- **Is the core compact or stellar?** stellar
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 2742 next field

Description Easier than 2742 Air sure

(1999 Cole & Pratt)

Observing Log

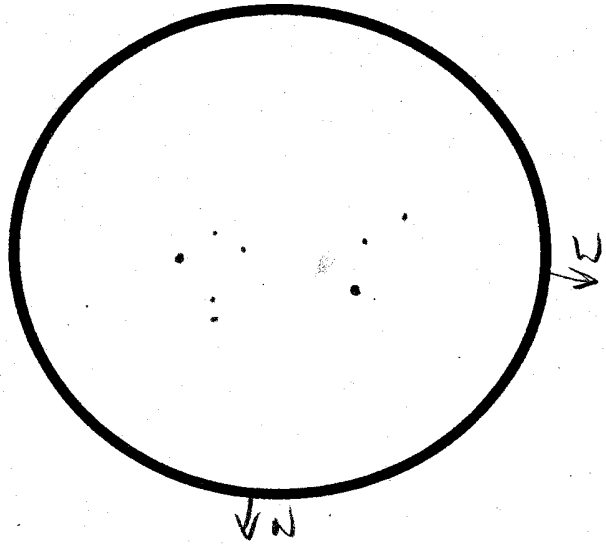
Object type: **Galaxy**

Object ID: NGC 2742

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:20

Location RMCE

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

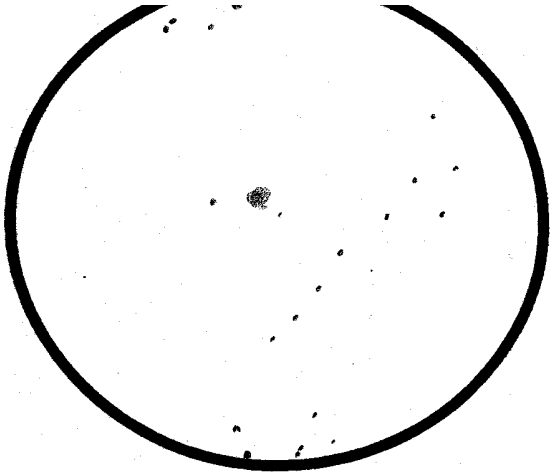
Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elongated
- **Is a core noticeable?** slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Here not as shown w/47x -05AV

Other view an error

(1999 Cole & Pratt)



Seeing 7 Transparency 4

Instrument 8FX125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Oval
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse? not
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No.

Description Not much detail

(1999 Cole & Pratt)

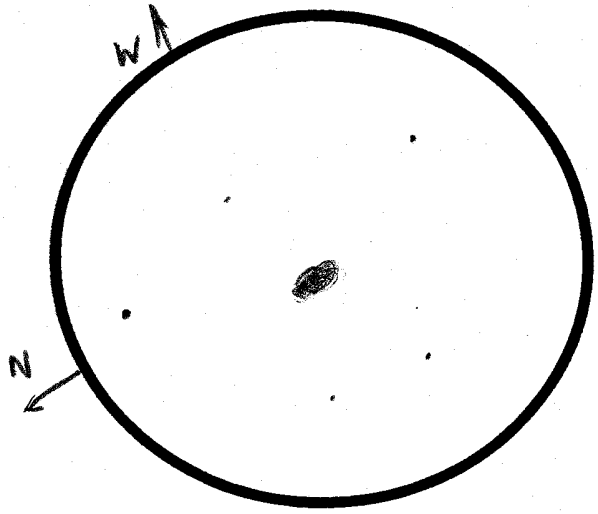
Observing Log
Object type: **Galaxy**

Object ID: NGC 2775

Const.: Cnc

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/4

Time 8:40 CST

Location RMCC

Seeing 7 **Transparency** 4

Instrument E7X125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** sl. more elong @ 153x as shown
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** Mottle
- **Are the edges of the outer envelope sharp or diffuse?** more
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Some
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: Galaxy

Object ID: NGC 2782

Const.: Lyn

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 4/16/4

Time 10:40 CDT

Location NMCC

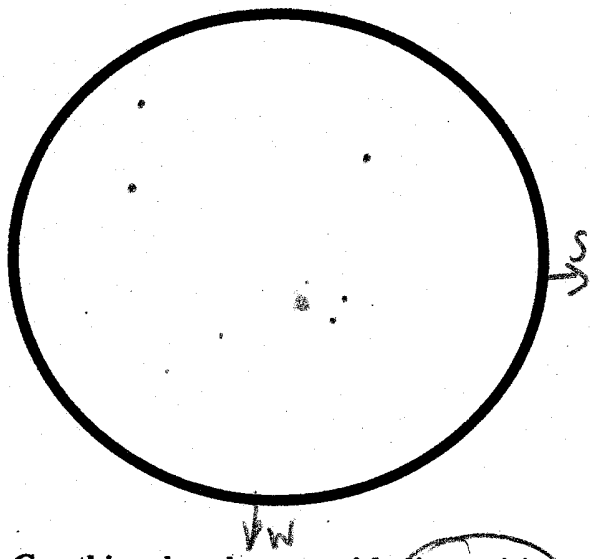
Seeing 4 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round glow
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nice pair of stars to S

(1999 Cole & Pratt)

Observing Log

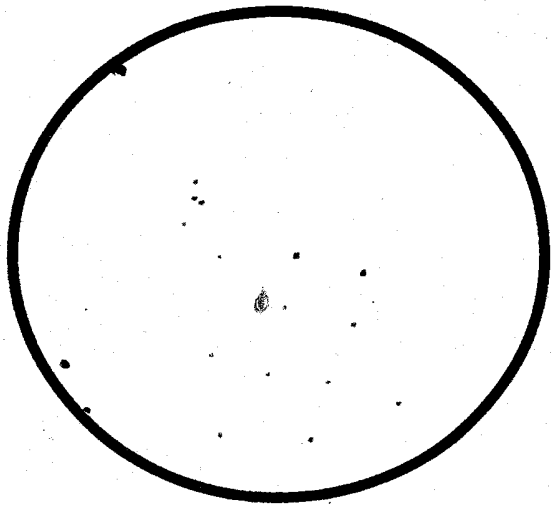
Object type: **Galaxy**

Object ID: NGC 2787

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:35 pm

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elong 2x1 w/ just a hint of round brighter "behind" it
- **Is a core noticeable?** yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

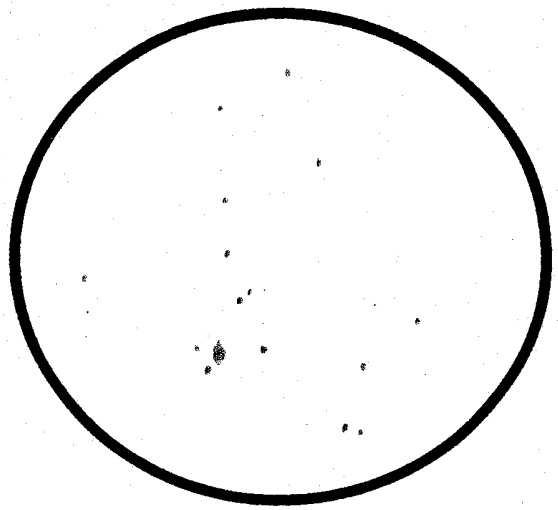
Object type: **Galaxy**

Object ID: NGC 2811

Const.: Hyd

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 10:20 CDT

Location RMCC

Seeing 4 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** round 3h glow w/ sl. elong N-S
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** almost a bar
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Sat. 10:18 CDT ~7m

Description Most of description gleaned from 73x but very hard to determine shape. Even @ 153x I can't be certain of elongation or exact shape

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 2841

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 9:10 pm

Location RMCC

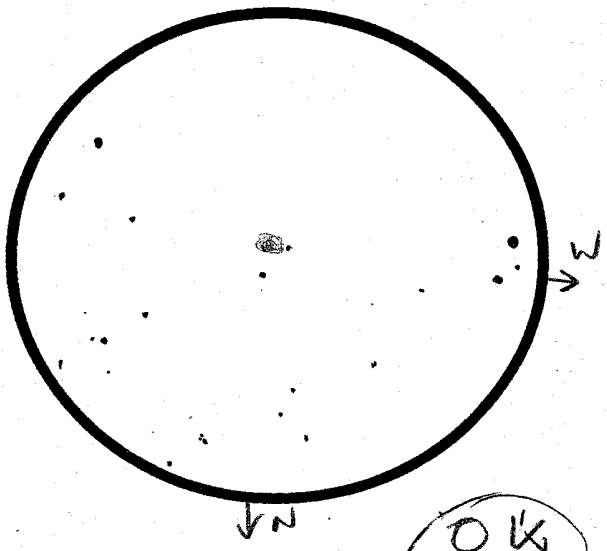
Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x



- **Can this galaxy be seen with direct vision, or is averted vision required?** OK / helps
- **What is the overall shape?** sl. elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Small but easily seen w/ field star on W edge

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 2841

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 9:15 pm

Location RMCC

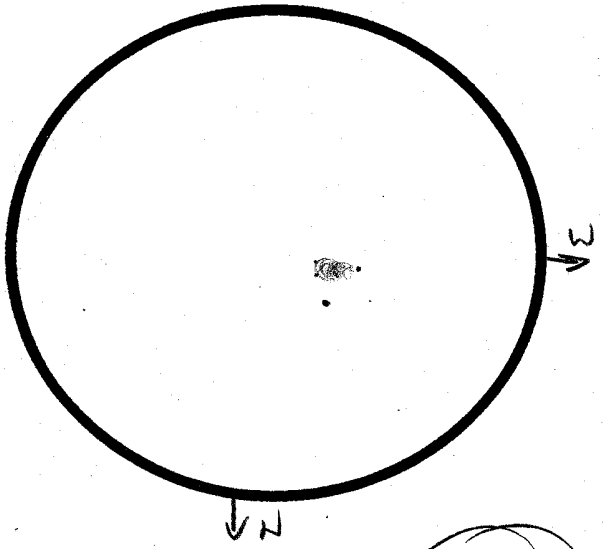
Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25mm ortho

Field of view _____ **Power** 73x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elong to E-W
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** sl. hints of mottle
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No, but two f.s.
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

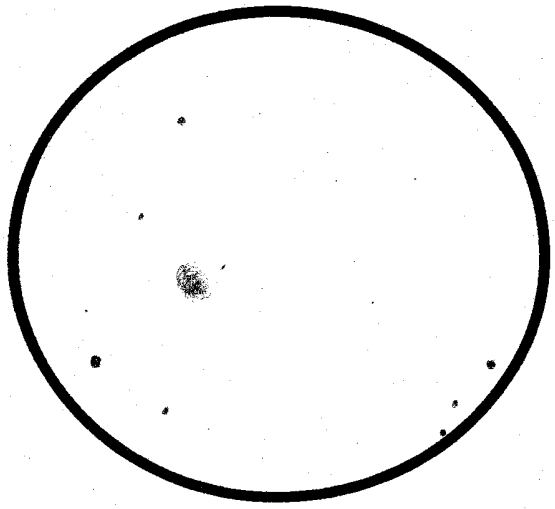
Object type: **Galaxy**

Object ID: NGC 2859

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/16/4

Time 10:55 CDT

Location RMCC

Seeing 4- **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round w/ bright core
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints
- **Are the edges of the outer envelope sharp or diffuse?** med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Hints of patches
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

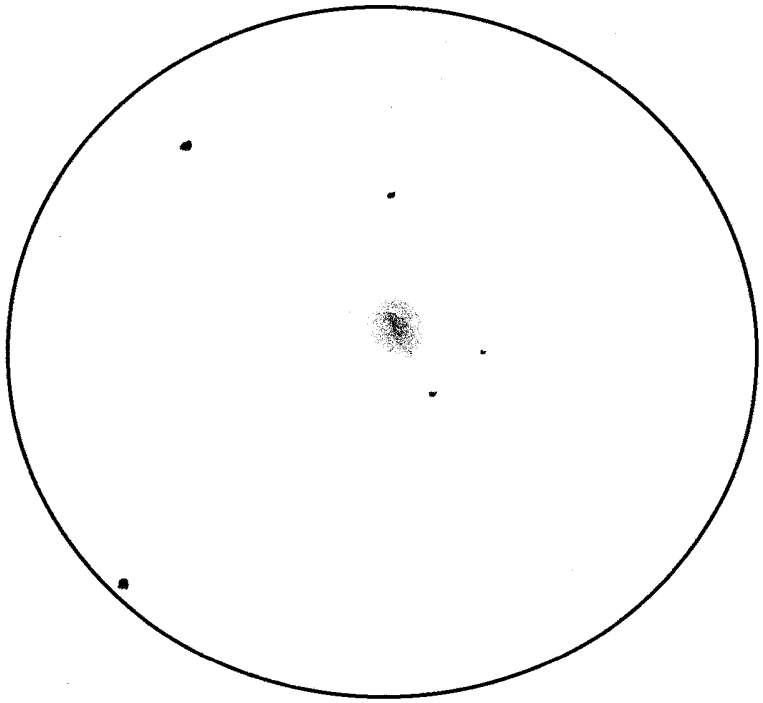
Description Very easy to find!

(1999 Cole & Pratt)

DATE 4/26/3 **TIME** 9:40 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2903 **LOCATION** (RMCC) HOME _____



LARGE MED BRIGHT OVAL W/SOMEWHAT DEFINED NUCLEUS.

ALSO TONIGHT THROUGH ROB & KC'S 12" & 13.5"

M82 – phenomenal with dust lanes & mottling

M51 – washed out (cloudish)

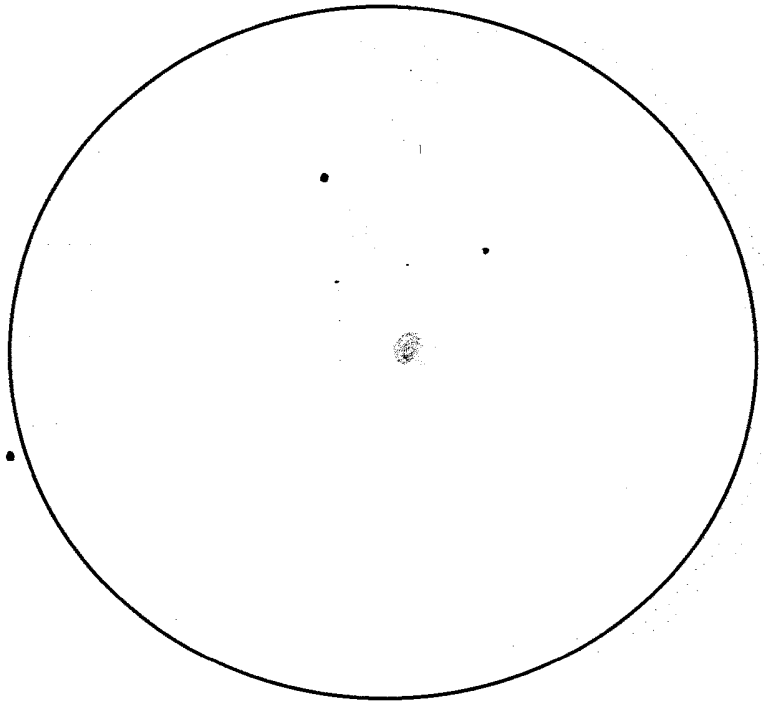
ω Cen – low but spectacular

M13 – brighter with – but not that much better than my view

DATE 6/27/3 **TIME** 10:20 CST (CDT) **CLARITY** (I) II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 2903 **LOCATION** (RMCC) HOME _____



WHOA - SAW IT THIS TIME BUT LAST OBS I HAD SWEPT MOMS WAY (DAMN MIRROR-FLIP!) THIS NIGHT IT'S EASY - OBLONG GLOW EASILY SEEN & EVEN, BEST W/AV BT NOT REQUIRED

Observing Log

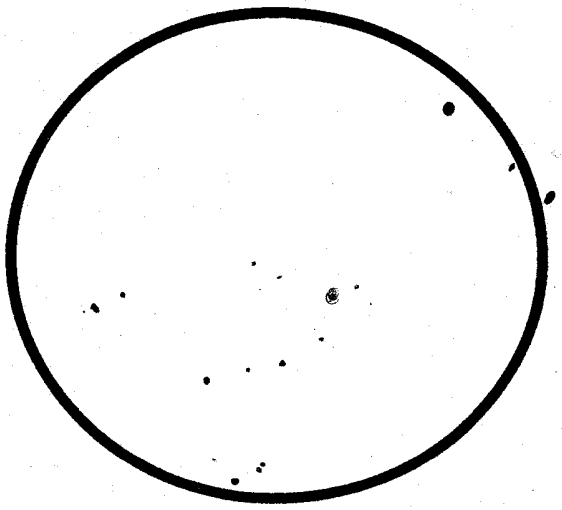
Object type: **Galaxy**

Object ID: NGC 2950

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/14

Time 9:55

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with (direct vision) or is averted vision required?**
- **What is the overall shape?** Stellar w/halo
- **Is a core noticeable?** Yes
- **Is the core compact or (stellar)?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope (sharp) or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

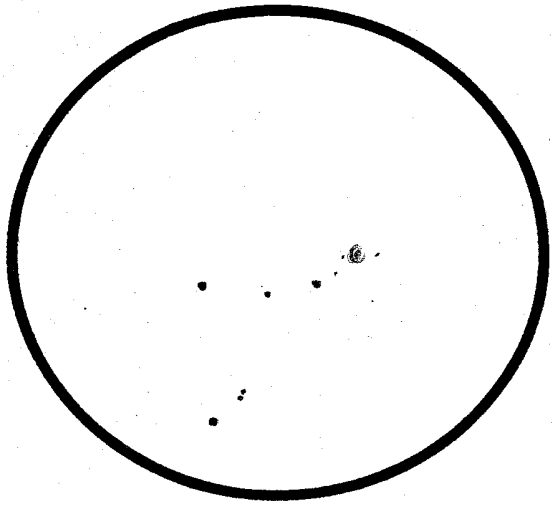
Object type: **Galaxy**

Object ID: NGC 2950

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 9:58 pm

Location RNCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Small stellar
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 2964

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 4/16/4

Time 11:05 CDT

Location RMCC

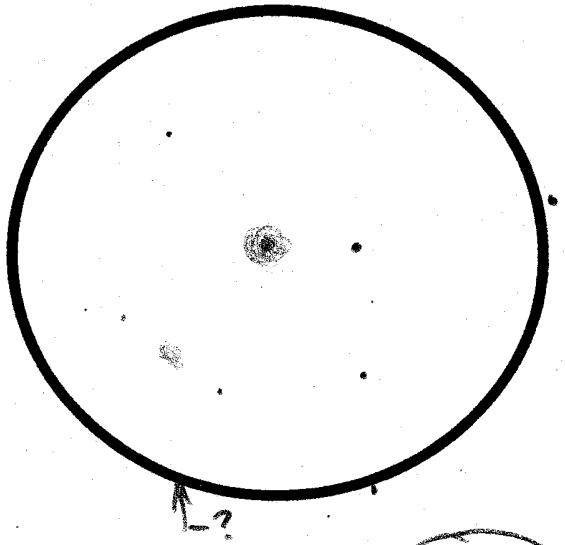
Seeing 4 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12, 4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** almost
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** 2968??
  very faint — AV only for it if seen

Description _____

(1999 Cole & Pratt)

Observing Log

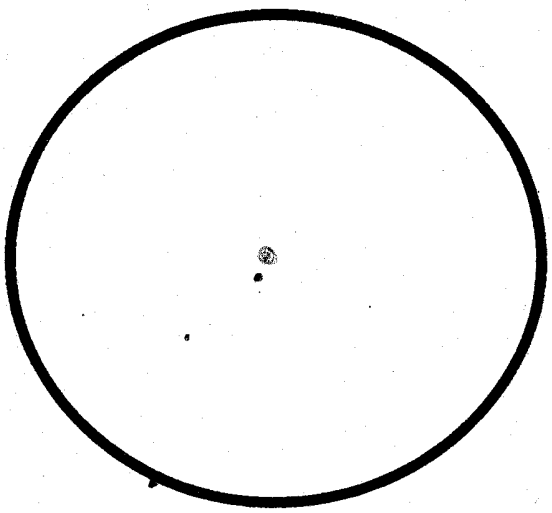
Object type: Galaxy

Object ID: NGC 2974

Const.: Sex

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 9:45 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** fuzzy star
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No,

Description but right next to fis. - looks like unres'd

lbl in 47x

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 2976

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 11:05 pm

Location NMCC

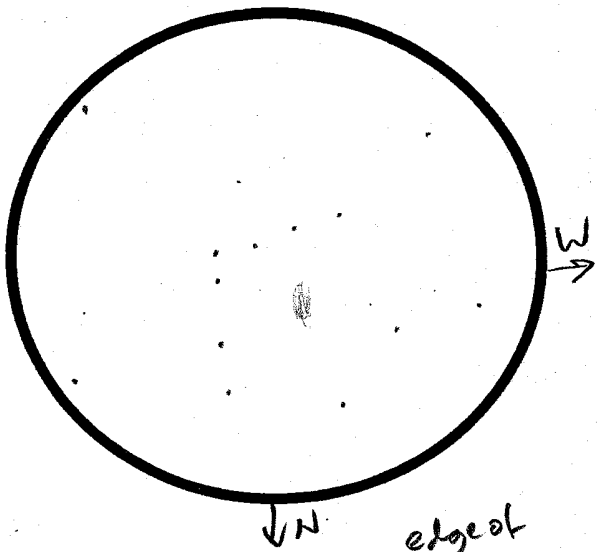
Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



- **Can this galaxy be seen with direct vision, or is averted vision required?** edge on — use
- **What is the overall shape?** elong
- **Is a core noticeable?** Not very
- **Is the core compact or stellar?** what there is
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Amorphous glow

(1999 Cole & Pratt)

Observing Log

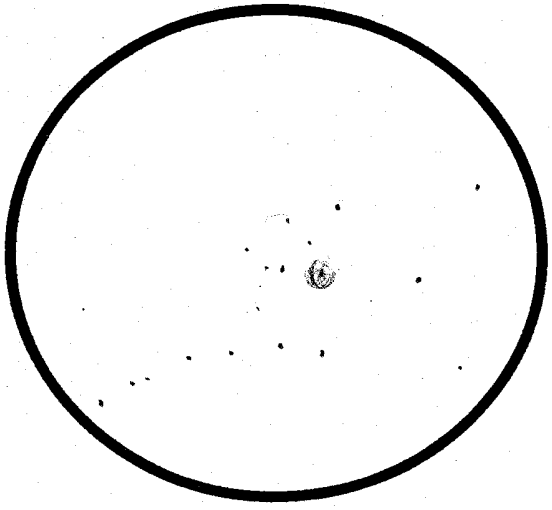
Object type: **Galaxy**

Object ID: NGC 2985

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 11:20

Location NMC

Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Slight hints of "spiral"
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** ↓ "
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: M81+M82 (NGC3034)

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 10:55 pm

Location RMCC

Seeing 6 **Transparency** 4

Instrument BTX125

Size 125

Eyepiece H0

Field of view _____ **Power** 47

WOW

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** See drwg
- **Is a core noticeable?** M81 yes M82 no
- **Is the core compact or stellar?** M81 brg, even, M82 –
- **Can any detail be seen between the core and the outer envelope of the object?** See individual views
- **Are the edges of the outer envelope sharp or diffuse?** M82 med M81
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** M81 Slightly M82 obvious
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: M82 (NGC 3034)

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/18/4

Time 10:55 pm

Location RMCE

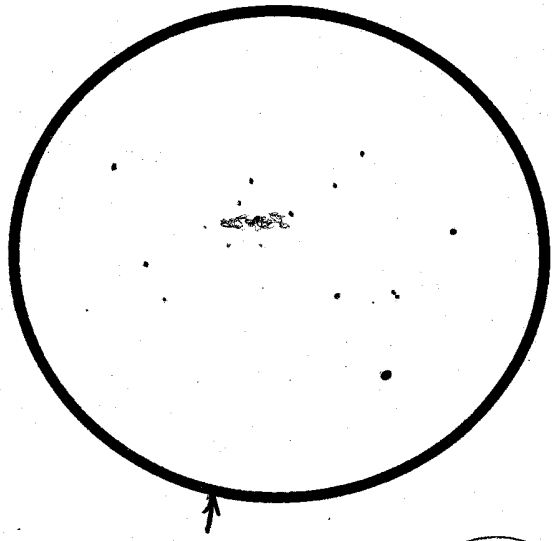
Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Cigar & uneven
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes - lots of mottling and a small "notch" at arrow
- **Are the edges of the outer envelope sharp or diffuse?** med.
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Lots of it - entirely mottle!
- **Are there any other deep-sky objects in the same field of view? If so, what?** M81 to S

Description _____

(1999 Cole & Pratt)

Observing Log

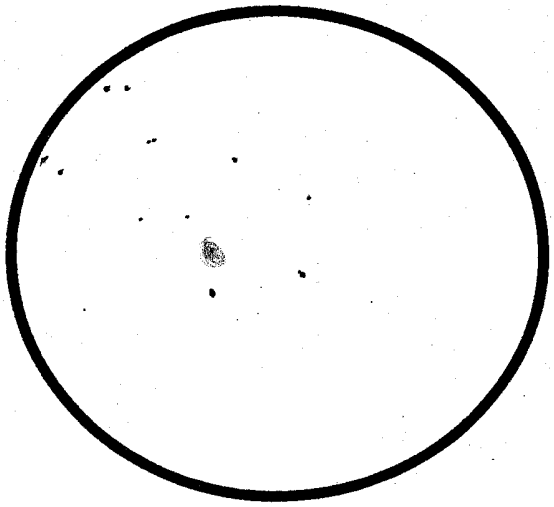
Object type: Galaxy

Object ID: NGC 3077

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 11:00 pm

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Not much
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** M81 82 close by

Description _____

(1999 Cole & Pratt)

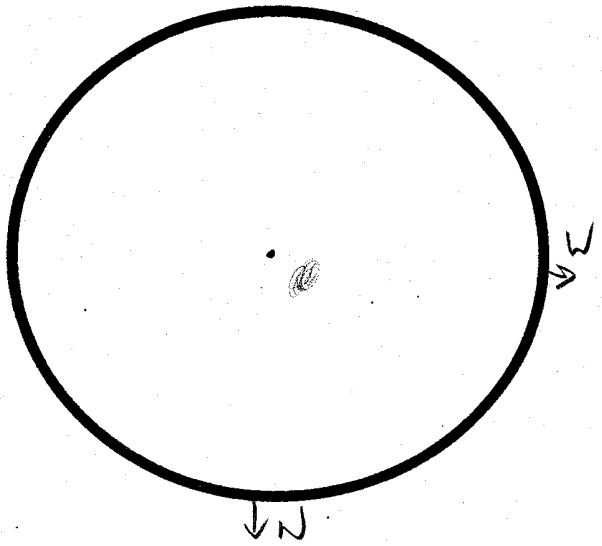
Observing Log
Object type: Galaxy

Object ID: NGC 3079

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 9:20

Location NMCC

Seeing 6 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25mm ortho

Field of view _____ **Power** 73X

47R

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

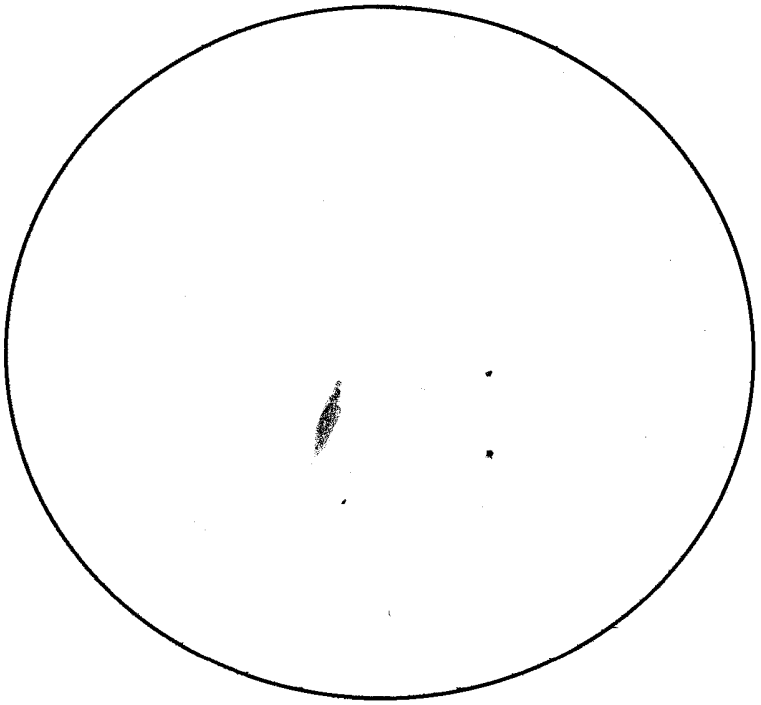
Description Just barely seen w/ AV – very faint
sl. elong PA30°

(1999 Cole & Pratt)

DATE 4/26/3 **TIME** 9:50 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 3115 **LOCATION** (RMCC) HOME _____



NEARLY VERY EVEN – COMPARE TO M104 LATER

GREAT SIGHT IN BORING FIELD

Observing Log

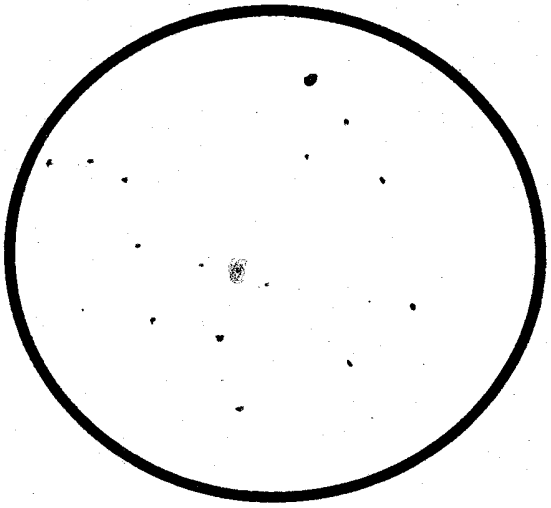
Object type: **Galaxy**

Object ID: NGC3147

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/18/4

Time 11:20

Location RMCC

Seeing 6 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** helps
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** hints of mottle
- **Are the edges of the outer envelope sharp or diffuse?** red
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Object ID: NGC 3166 +3169

Const.: Sex

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/8/4

Time 9:55 CDT

Location RMCC

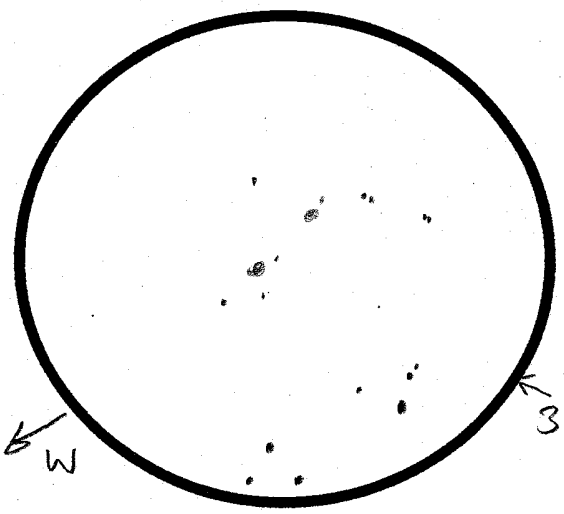
Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47



born

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** sl. elongated
- **Is a core noticeable?** 3166 yes 3169 no
- **Is the core compact or stellar?** 3166
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description see 153 x rev (next)

(1999 Cole & Pratt)

Observing Log

Object type: Galaxy

Object ID: NGC 3166 + 3169

Const.: Sex

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/8/4

Time 10:00 CDT

Location RMCE

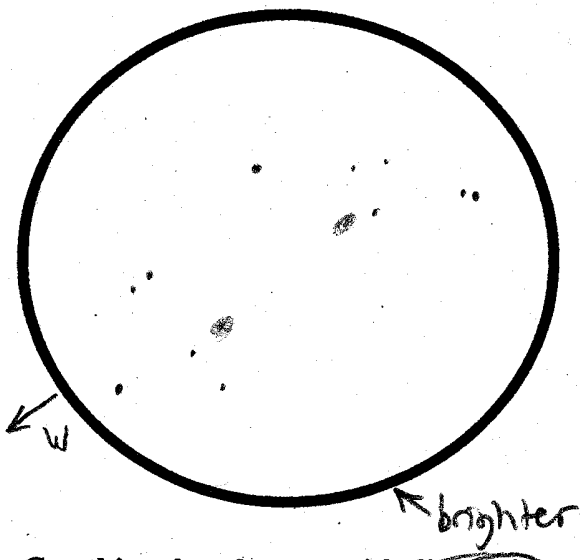
Seeing 7 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Both are 2x1 elong.
- **Is a core noticeable?** 3166 yes 3169 no so much
- **Is the core compact or stellar?** 3166 stellar 3169 compact
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** 3169 esp. hard to gauge PA
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No.
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description perros view 47x great field!

(1999 Cole & Pratt)

Observing Log

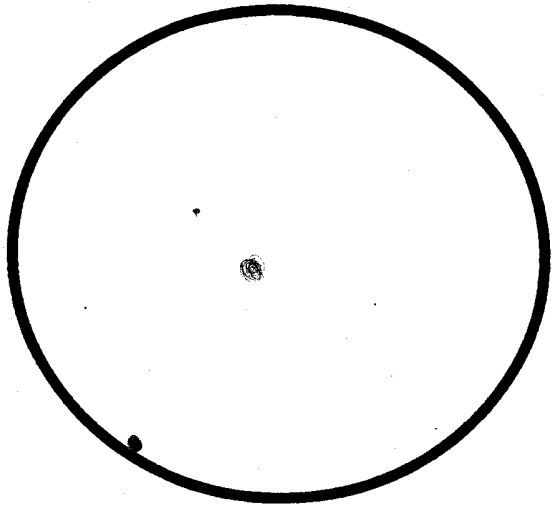
Object type: **Galaxy**

Object ID: NGC 3184

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/11/4

Time 10:19 CDT

Location RMCC

Seeing 3 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Blob
- **Is a core noticeable?** No
- **Is the core compact or stellar?** NA
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Amorphous & very hard to see w/AV - a little oval in shape

(1999 Cole & Pratt)

Observing Log

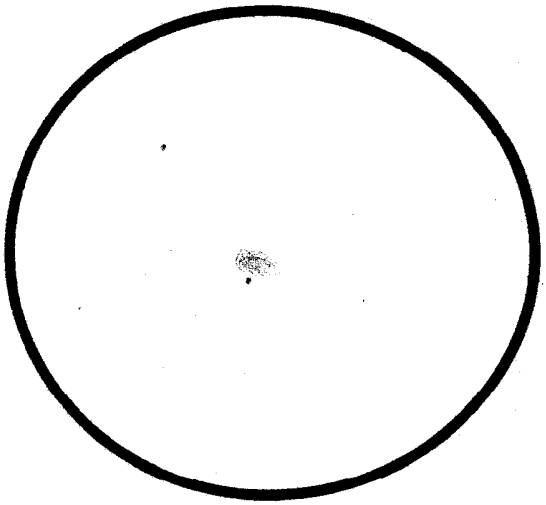
Object type: **Galaxy**

Object ID: NGC 3184

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 10:25 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** NO
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** NONE
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** NO
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Confirming previous – Man its hard to see!
Very amorphous shapeless ghostly glow. Near 12m

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 3190 & 3193

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 4/16/4

Time 11:15 CDT

Location RMCC

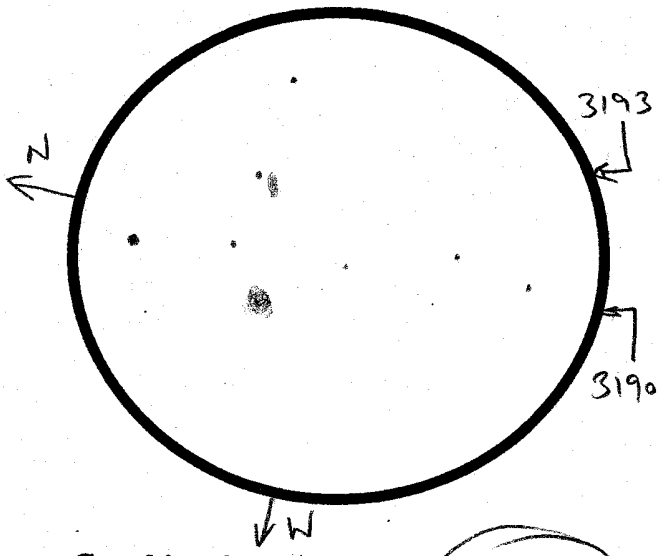
Seeing 4 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3190 is round, 3193 round until a.v. ↗ (helps along 3193 slightly)
- **Is a core noticeable?** No & No
- **Is the core compact or stellar?** N/A x2
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Hints but fairly even
- **Are there any other deep-sky objects in the same field of view? If so, what?**

Description Each other & 3185 1 fld W (not a H400 object)

(1999 Cole & Pratt)

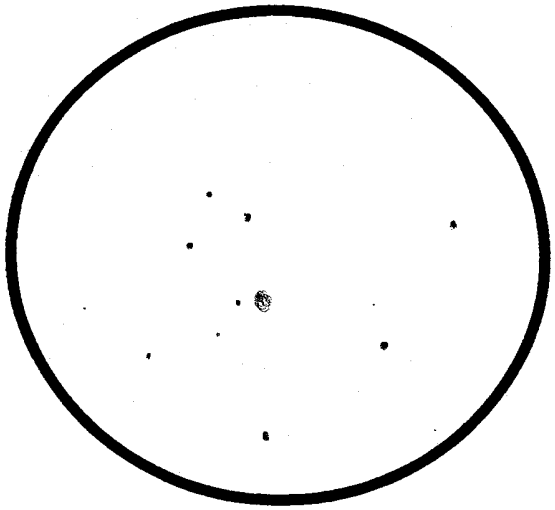
Observing Log
Object type: Galaxy

Object ID: NGC 3198

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:10

Location RMCC

Seeing 6 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

22:06:10 Sat two 47x all at D nearby

Description BUT SEE 153X NEXT

(1999 Cole & Pratt)

Observing Log

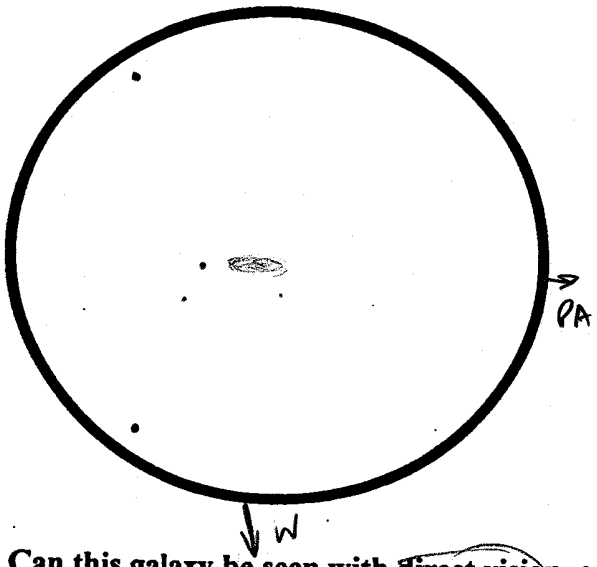
Object type: **Galaxy**

Object ID: NGC 3198

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:10

Location RMCC

Seeing 6 **Transparency** 3+

Instrument EDX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** brings out
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Elong glow
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 3226/3227

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 4/16/4

Time 11:40 CDT

Location RMCC

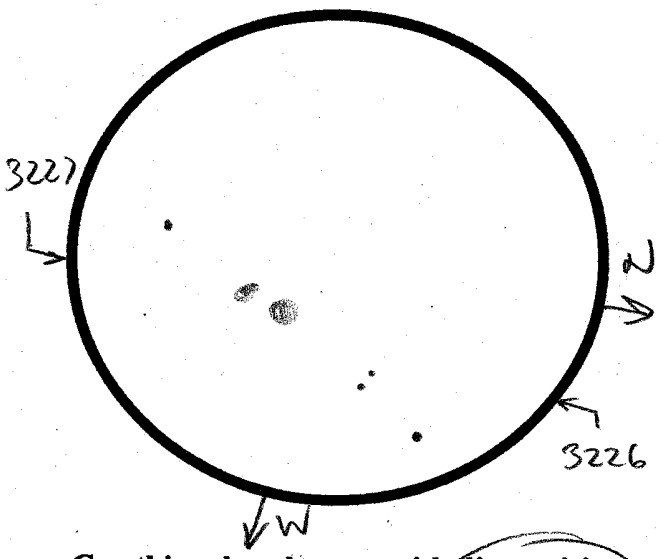
Seeing 4 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3226 = round 3227 = sl. oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** somewhat
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description Can tell they are separate in 153x — not sure in 47x view... just amorphous glows no detail but one "double"

(1999 Cole & Pratt)

Observing Log

Object type: **Planetary Nebula**

Object ID: NGC 3242

Const.: Hyd

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 3/11/4

Time 9:35 CST

Location RMCE

Seeing 7+ **Transparency** 5

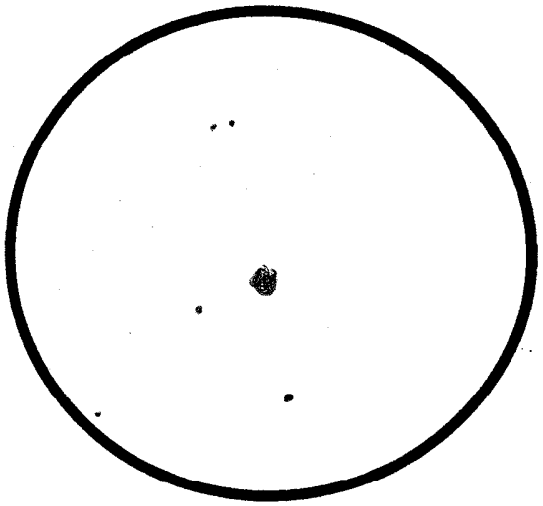
Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

+ nb filter



- **What is the overall shape?** Oval
- **Is this planetary easy or difficult to identify in your field?** very even in finder!
- **What is the color of this planetary?** bluish gray
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** very
- **Is the center brighter, darker, or the same brightness as the edges?** pretty much
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

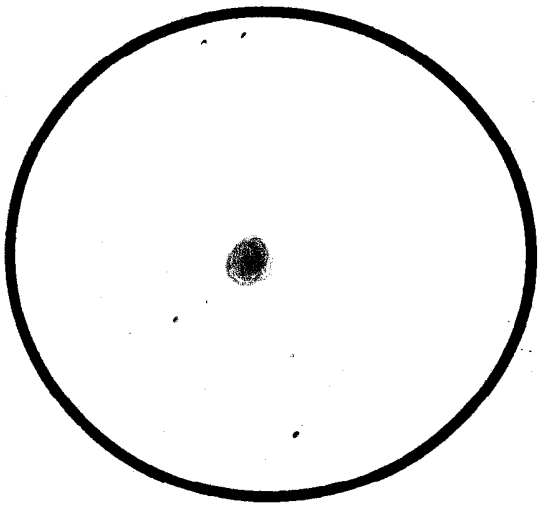
Object type: **Planetary Nebula**

Object ID: NGC 3242

Const.: Hyd

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer B.Y.

Date 3/9/4

Time 9:30-9:42 CST

Location HOME (!)

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 6

Field of view _____ **Power** 316

W & w/o neb filter

also 153x (12.4mm w/filter)

- **What is the overall shape?** Round/oval
- **Is this planetary easy or difficult to identify in your field?** even @ 47x
- **What is the color of this planetary?** Blue-grey
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** extended w/power & filter
- **Is the center brighter, darker, or the same brightness as the edges?** slightly
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?** look for dbl to N & ∇ shape
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description SEEMS TO HAVE SOME INTERNAL STRUCTURE (ESP. @ 316x) BUT HARD TO DESCRIBE - HOLLOW TUBES ??

(1999 Cole & Pratt)

Observing Log

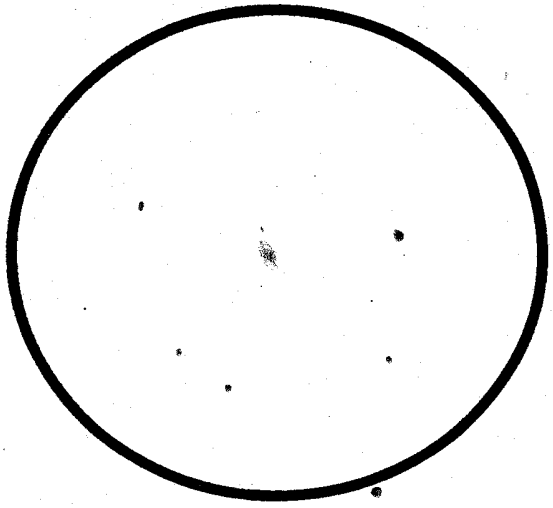
Object type: Galaxy

Object ID: NGC 3245

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/17/4

Time 12:00 CDT

Location RMCC

Seeing 4 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Squat - almost lenticular
- **Is a core noticeable?** Slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp (med) or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Wonderful line of 9-10m's lead right to it!

(1999 Cole & Pratt)

Observing Log

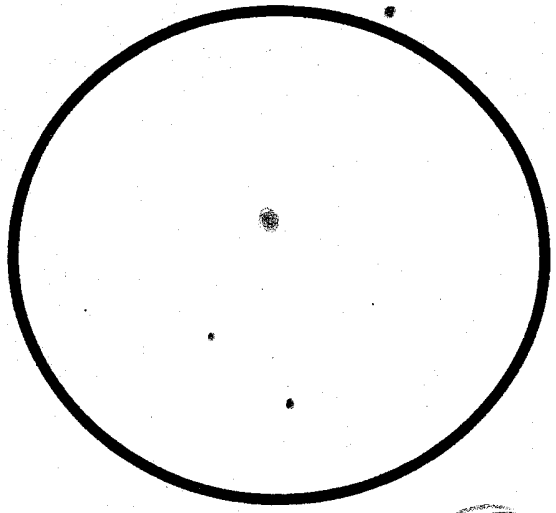
Object type: **Galaxy**

Object ID: NGC 3277

Const.: UMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/17/4

Time 12:10 CDT

Location RMCC

Seeing 4 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** barely
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Faint – use AV for view of round hazy glow

Not seen as well at 47x

(1999 Cole & Pratt)

Observing Log

Object type: Galaxy

Object ID: NGC 3294

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 4/17/4

Time 12:30 CDT

Location RMCC

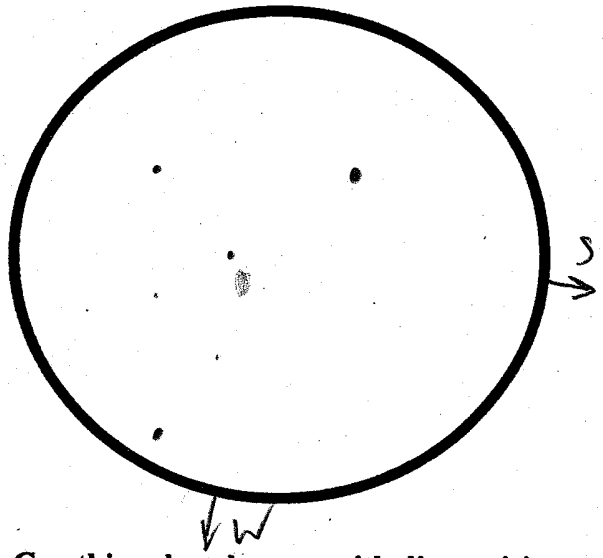
Seeing 4 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description But easy to find w/ F.S.

Featureless glow – use AV – amorphous shape

approx 2X1 dimension ~ E-W

(1999 Cole & Pratt)

Observing Log

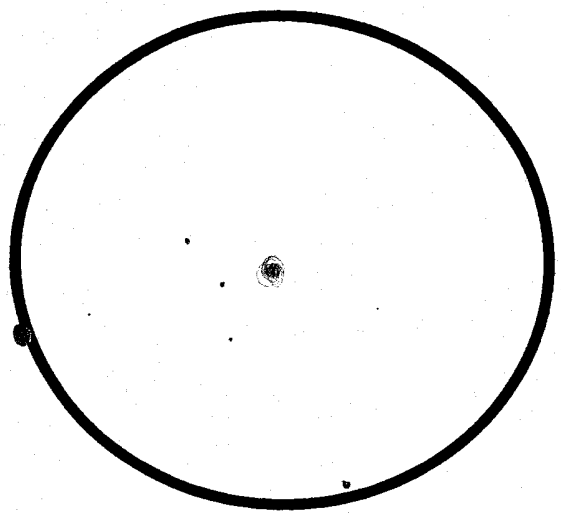
Object type: **Galaxy**

Object ID: NGC 3310

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 10:10 CDT

Location RMCC

Seeing 7+ **Transparency** 3

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some mottle
- **Are the edges of the outer envelope sharp or diffuse?** (red)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description _____

(1999 Cole & Pratt)

Observing Log

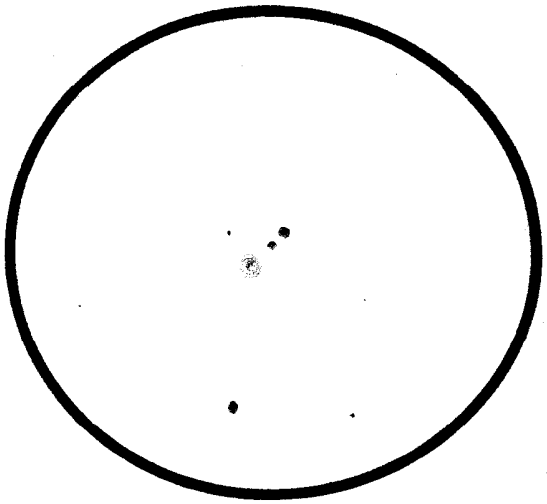
Object type: **Galaxy**

Object ID: NGC 3344

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 10:20 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** ~153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description I found it easily w/ Es

(1999 Cole & Pratt)

Observing Log

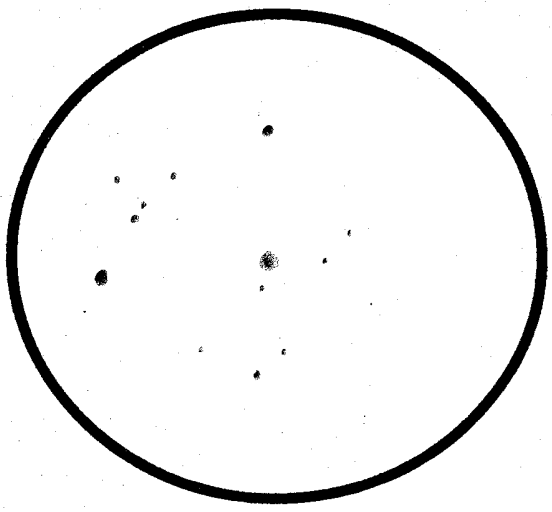
Object type: **Galaxy**

Object ID: NGC 3377

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 10:25 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Tiny elliptical
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

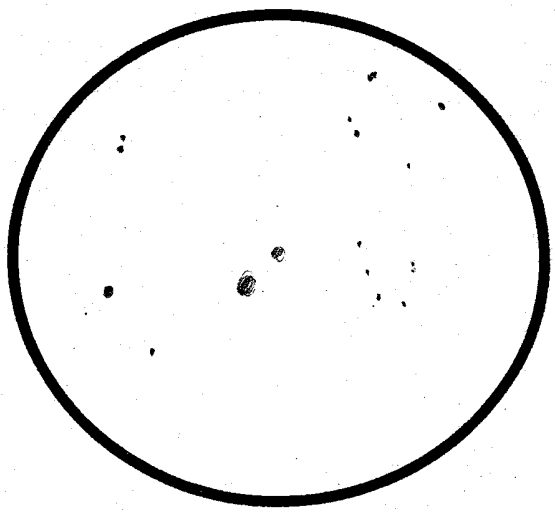
Object type: **Galaxy**

Object ID: NGC 3379 + 3384 (M105)

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 10:50 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Both round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** (M105) (3384)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description M105 brighter - but see 153x (next)

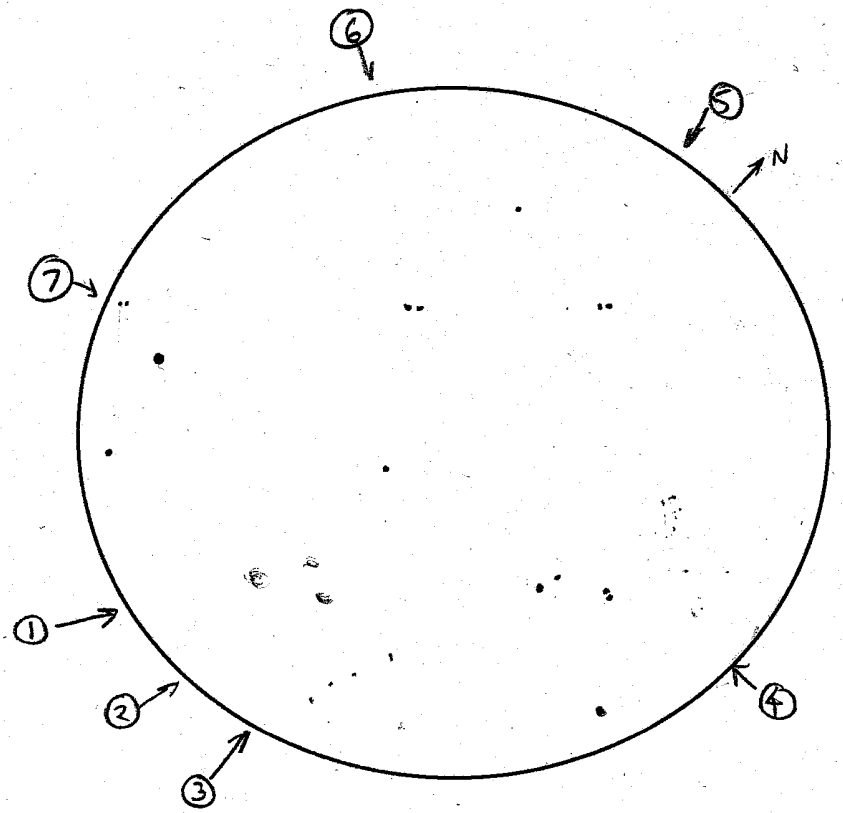
(1999 Cole & Pratt)

NGC 3384

DATE 3/29/3 **TIME** 9:15 (CST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M105 AREA **LOCATION** (RMCC) HOME _____



~3 fields actual size

M105 is round even glow about same size as M95 and M96

① M105 - rather bright - I think as easy as M95 and M96

② NGC 3384 - small, not easy

③ NGC 3389 = almost as bright as M105

Did I get these reversed?

④ Σ1477 - see attached

⑤ AG 341 - see attached

⑥ Σ1472 - see attached

⑦ ? - not listed on WDS attached

Observing Log

Object type: **Galaxy**

Object ID: NGC 3379 + 3384 + 3389 (?)

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 10:55 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** 3379 3384 / 3389
- **What is the overall shape?** sl. elong, oval, round 3384
- **Is a core noticeable?** Sl. w/3384
- **Is the core compact or stellar?** 3384
- **Can any detail be seen between the core and the outer envelope of the object?** 3379 not much; 3384 actually larger — with dim glow at to edges
- **Are the edges of the outer envelope sharp or diffuse?** 3379 / other 2
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** → 3389 featureless glow barely glimpsed

Description _____

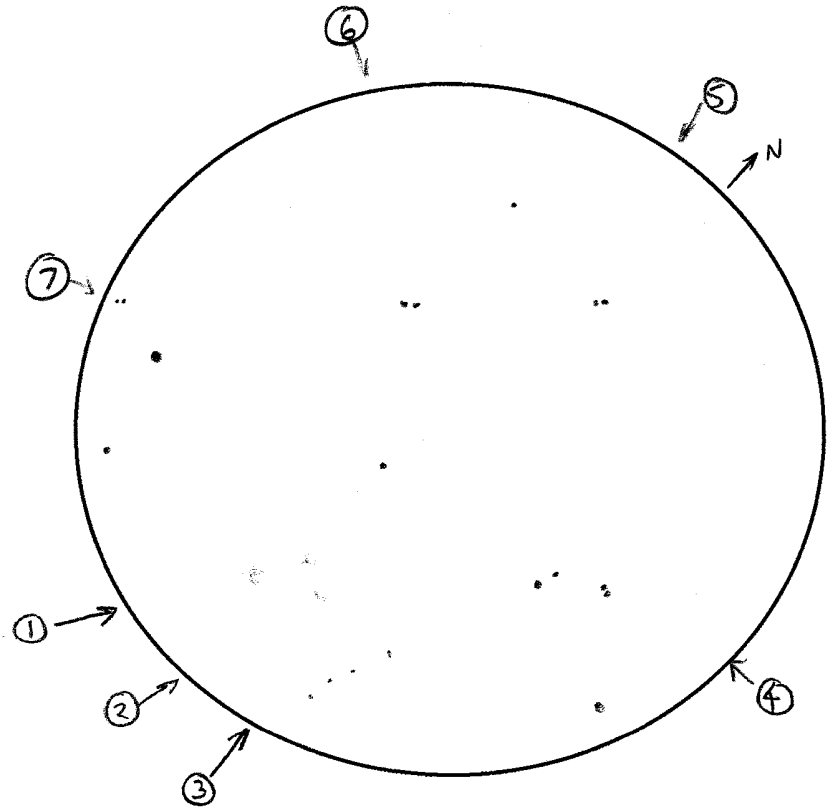
(1999 Cole & Pratt)

NGC 3379

DATE 3/29/13 **TIME** 9:15 (ST) CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (BTX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M105 AREA **LOCATION** (RMCC) HOME _____



~3 fields actual size

M105 is round even glow about same size as M95 M96

(1) M105 - rather bright - I think as easy as M95 M96

(2) NGC 3384 - small, not easy

(3) NGC 3389 = almost as bright as M105 } Did I get these reversed?

(4) Σ1477 - see attached

(5) AG 341 - see attached

(6) Σ1472 - see attached

(7) ? - not listed on WDS attached

Observing Log
Object type: Galaxy

Object ID: NGC 3395

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/16/4

Time 10:45 CDT

Location RMCC

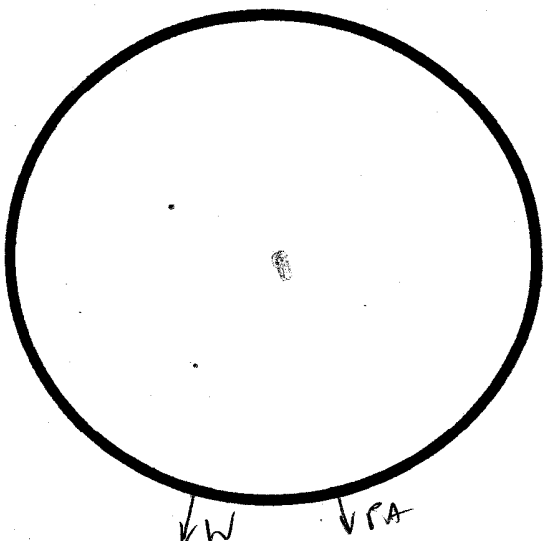
Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?** best use
- **What is the overall shape?** Roundish w/ some elong as shown
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Edge of visibility but seen!

(1999 Cole & Pratt)

22:41:17
1 mag meteor → N
thru NGC 3504
4x field!
left some train

Observing Log

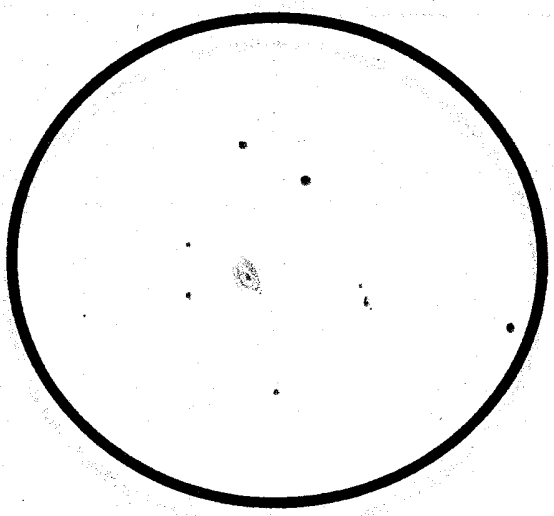
Object type: Galaxy

Object ID: NGC 3412

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 10:35 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Tiny
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Gradually dims
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Slight mottling
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nucleus stands out better w/153 x (see next)

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 3414

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/16/4

Time 10:30 CDT

Location AMCC

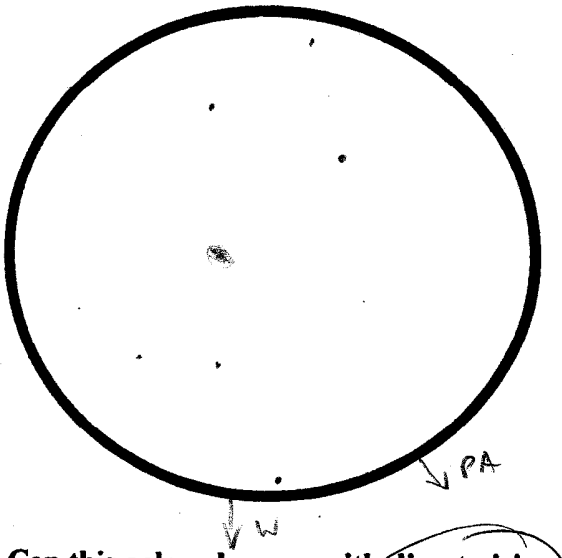
Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?** averted vision
- **What is the overall shape?** Elong cisection + round, low (barred spiral!)
- **Is a core noticeable?** As part of bar only
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Bar
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Really looks like a bar!

(1999 Cole & Pratt)

Observing Log

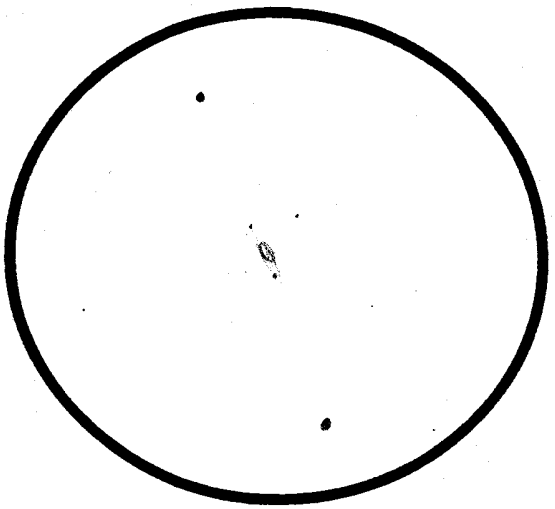
Object type: **Galaxy**

Object ID: NGC 3432

Const.: UMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:00

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Just glow
- **Are the edges of the outer envelope sharp or diffuse?** a bit
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

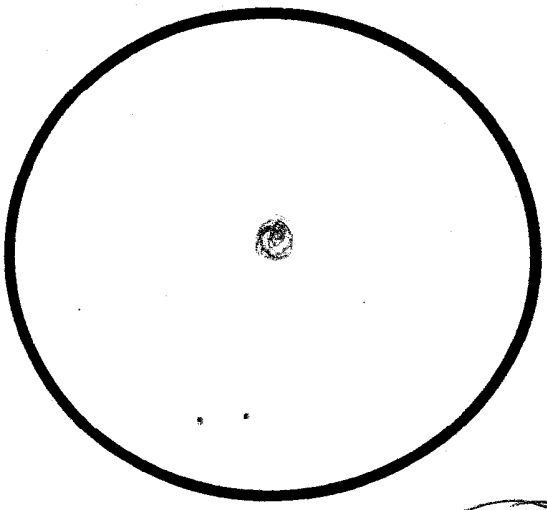
Object type: **Galaxy**

Object ID: NGC 3486

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 10:40 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** barely w/
- **What is the overall shape?** Round
- **Is a core noticeable?** Not really
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** AV pops out arms (?)
- **Are the edges of the outer envelope sharp or diffuse?** → approx. ↕
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Description

- Are there any other deep-sky objects in the same field of view? If so, what?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail be seen between the core and the outer envelope of the object?
- Is the core compact or stellar?
- Is a core noticeable?
- What is the overall shape?
- Can this object be seen with direct vision, or is averted vision required?

Field of view _____ Power _____

Exposure _____

Film _____

Instrument _____

Seeing _____ Transparency _____

Location _____

Time _____

Date _____

Observer _____

Alt: _____ Size: _____

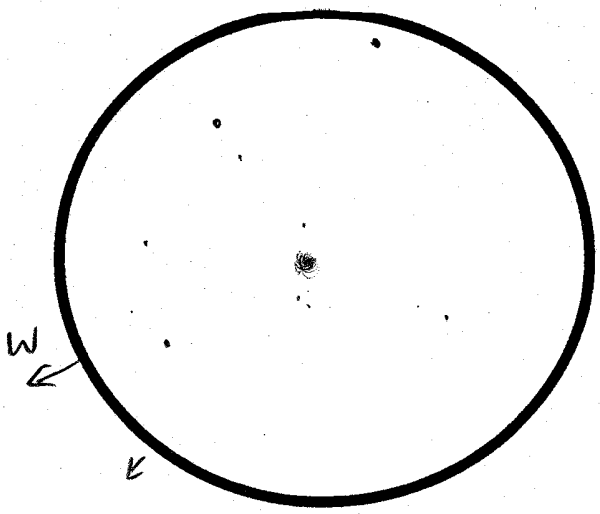
Ext: _____ Dec: _____

Const: _____

Object ID: _____

Object type: Galaxy

Observing Log



Location RMCC

Seeing 7 Transparency 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ Power 153X

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round w/ extension →
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? one side brighter and flaring (to PA 240°) and
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ↑ but not mottled
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Easy to distinguish @ 47x

(1999 Cole & Pratt)

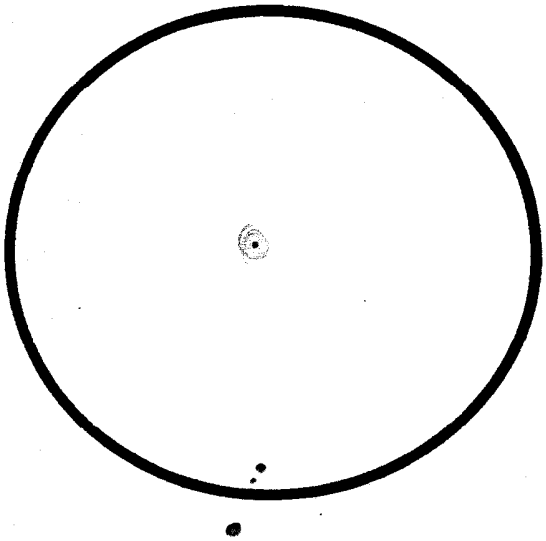
Observing Log
Object type: Galaxy

Object ID: NGC 3504

Const.: LMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 10:45 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** for glow
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

22:37 Sat
going S thru
finder field

Observing Log

Object type: **Galaxy**

Object ID: NGC 3521

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/8/14

Time 11:15 CDT

Location RMCE

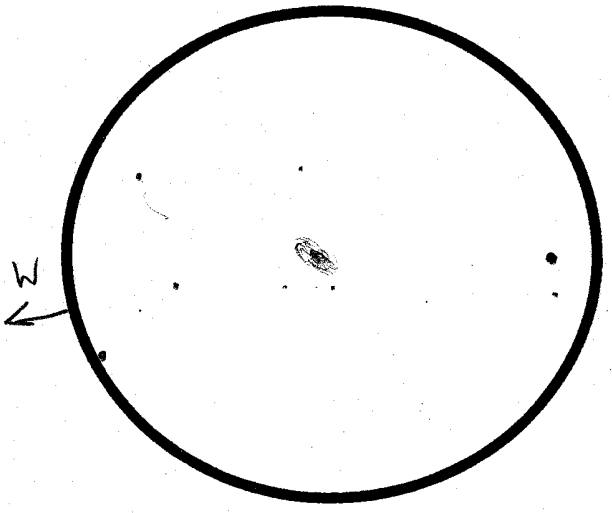
Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elongated glow ~5'x 2'
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes - definite detail NW side
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** some hints +
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

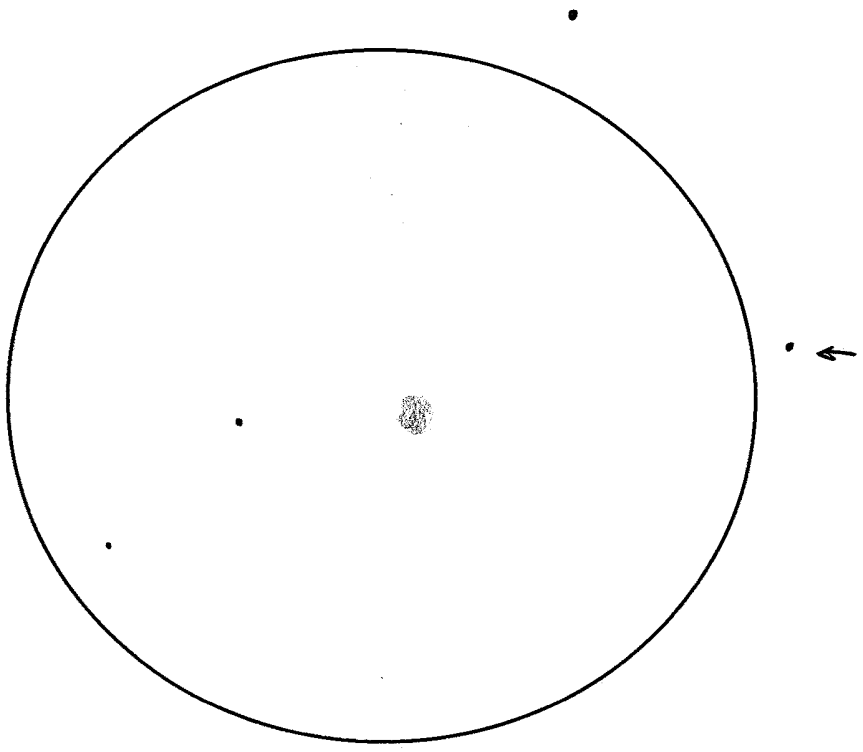
(1999 Cole & Pratt)

NGC 3556

DATE 7/19/3 **TIME** 10:10 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M 108 **LOCATION** (RMCC) HOME _____



Fairly easy on other side of → star from M97 field. Random glow - no detail

Observing Log

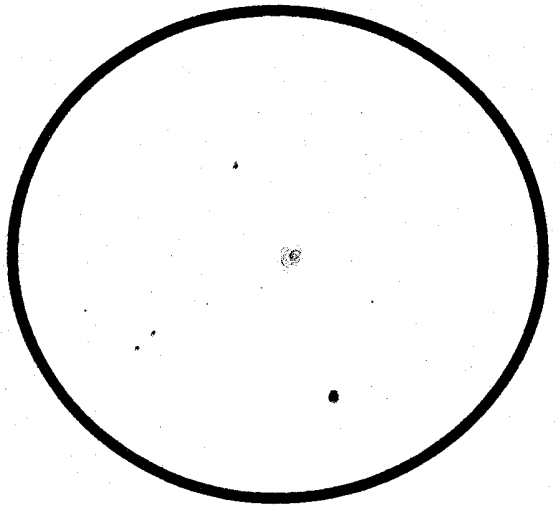
Object type: Galaxy

Object ID: NGC 3593

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:25 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** can see / but use
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description I had no trouble seeing it in Δ w/52 KoR f.s.

(1999 Cole & Pratt)

Observing Log

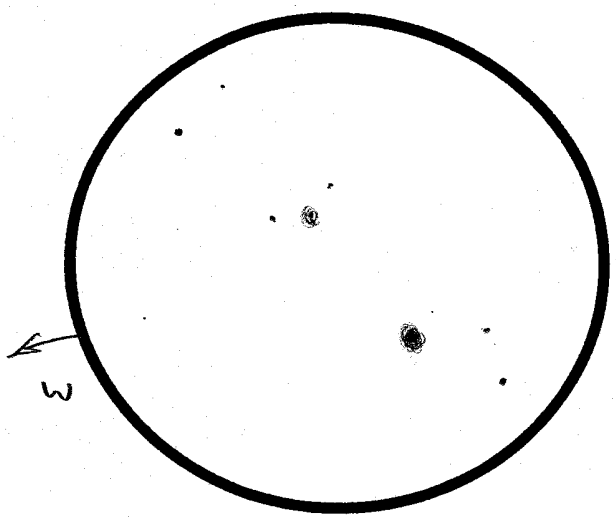
Object type: Galaxy

Object ID: NGC 3607 + 3608

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:40 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Both round
- **Is a core noticeable?** Only w/southern
- **Is the core compact or stellar?** N/A & compact
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description 23:37:50 9m sat going N thru area (47x fld)

(1999 Cole & Pratt)

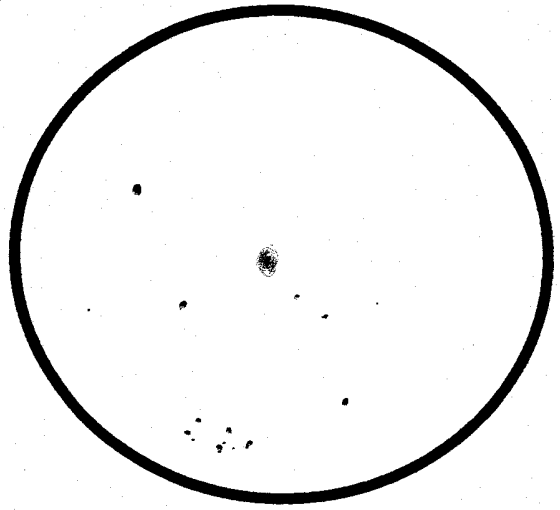
Observing Log
Object type: **Galaxy**

Object ID: NGC 3610

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/14

Time 9:50 CDT

Location RMCL

Seeing 8 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: Galaxy

Object ID: NGC 3613/3619

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/15/4

Time 10:00 CDT

Location RMCC

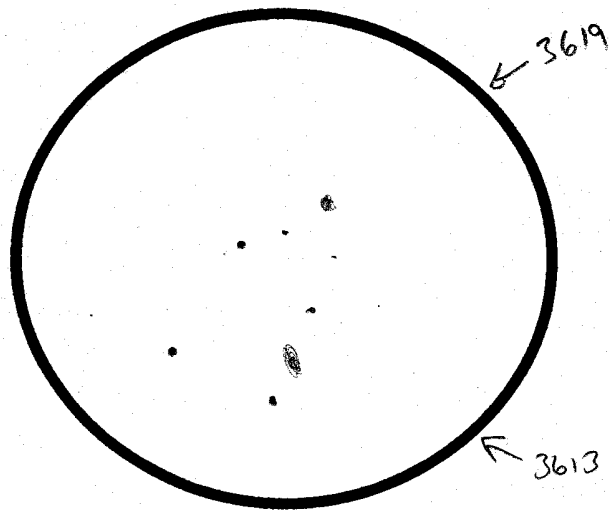
Seeing 8 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** some elong, other round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description _____

(1999 Cole & Pratt)

Observing Log

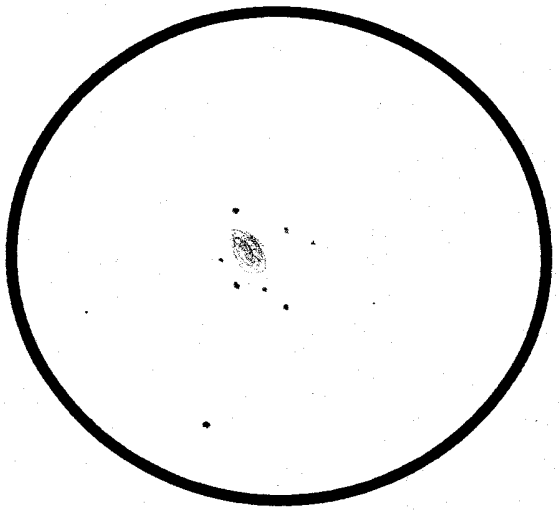
Object type: **Galaxy**

Object ID: NGC 3621

Const.: Hyd

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 9:45 CDT

Location RMCC

Seeing 8 **Transparency** 3+

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Hmm
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very hazy glow w/ lots of Lts.

(1999 Cole & Pratt)

Observing Log

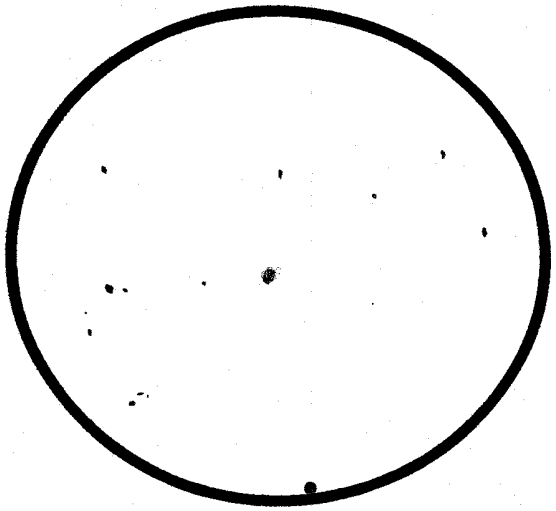
Object type: **Galaxy**

Object ID: NGC 3628

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/14

Time 9:47 CST

Location RMCE

Seeing 8 **Transparency** 5

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

Aborted 73x

- **Can this galaxy be seen with direct vision, or is averted vision ~~required~~?** but helps
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description 73x not drawn brings out some along but can't push more (faint)

(1999 Cole & Pratt)

Observing Log

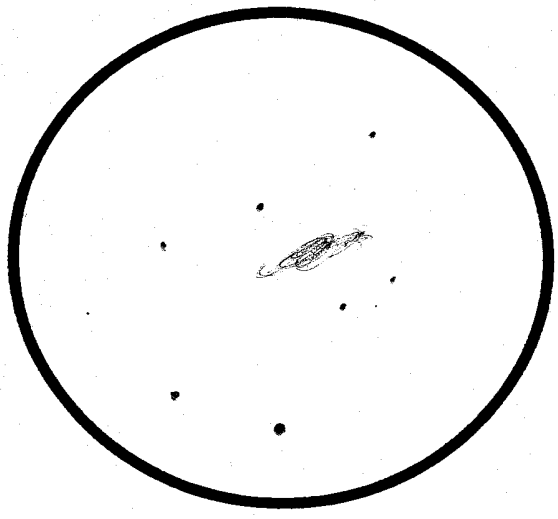
Object type: **Galaxy**

Object ID: NGC 3628

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:30 CDT

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** helps extend
- **What is the overall shape?** swipe very elongated
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Hints as shown
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** See dusky
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Didn't push - too large & "delicate"

(1999 Cole & Pratt)

Observing Log

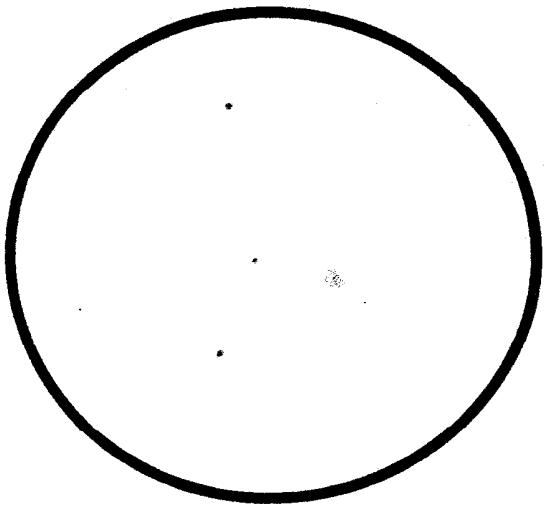
Object type: **Galaxy**

Object ID: NGC 3631

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 10:22 CDT

Location RMCC

Seeing 7+ **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Really blank — just amorphous glow but seen directly

(1999 Cole & Pratt)

Observing Log

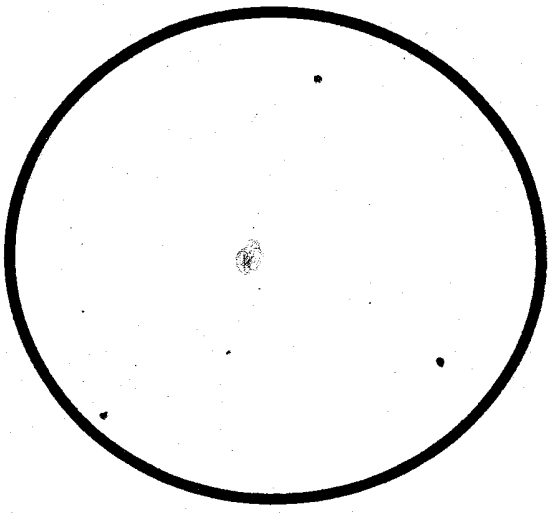
Object type: **Galaxy**

Object ID: NGC 3640

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:20 CDT

Location NMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

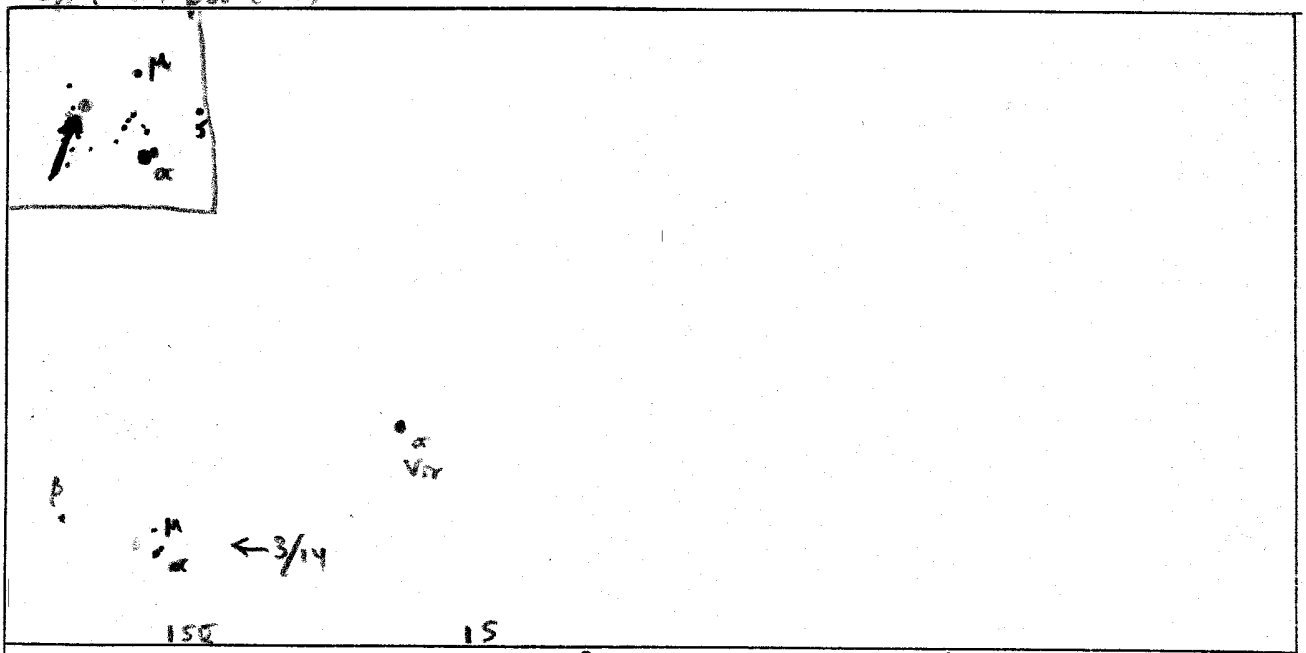
Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** helps
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** SL
- **Can any detail be seen between the core and the outer envelope of the object?** No - even glow
- **Are the edges of the outer envelope sharp or diffuse?** Fuzzy
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

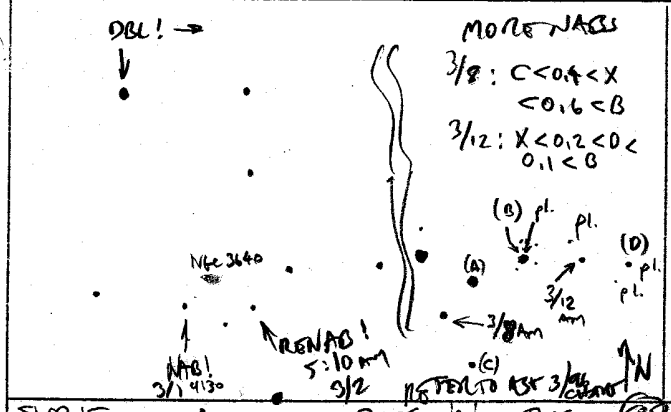
(1999 Cole & Pratt)

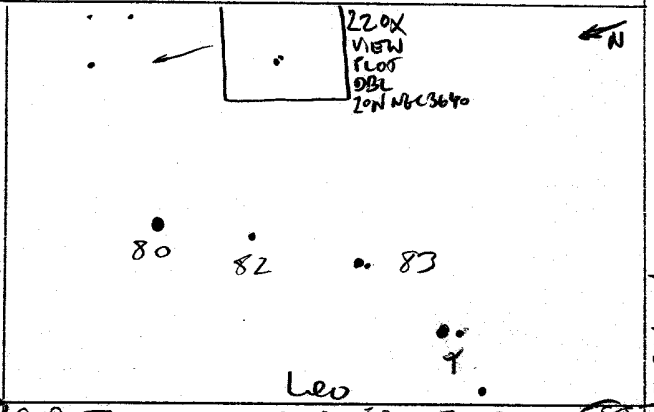
3/14 am pos (b's)



SUBJECT: COMET HYAKUTAKE 2 DATE: NOTE TIME: NOTE CST CDT

NOTES: N.E. / b's SIGHTS, 3/14 OK w/eye (contacts!) after easy sight w/b's @ 2:10, before moon, crappy foggy nite though, should get easier!





Sept ??

Plot dbl 2 on NGC 3640 northward 4/220x, Δm 0.5, PA ~ 200

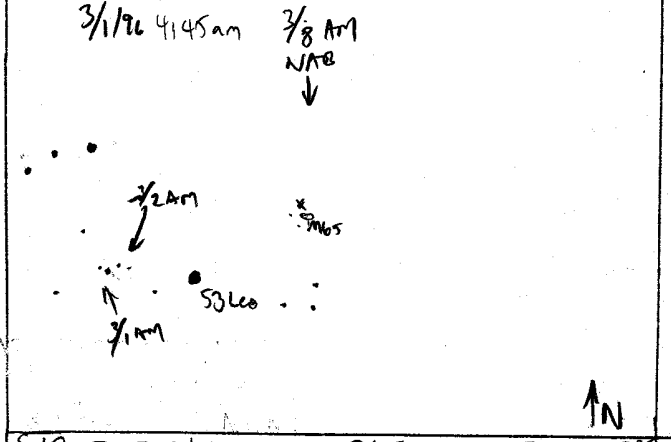
SUBJECT: MASSACHUA DATE: ~~NOV 89~~ TIME: CST CDT

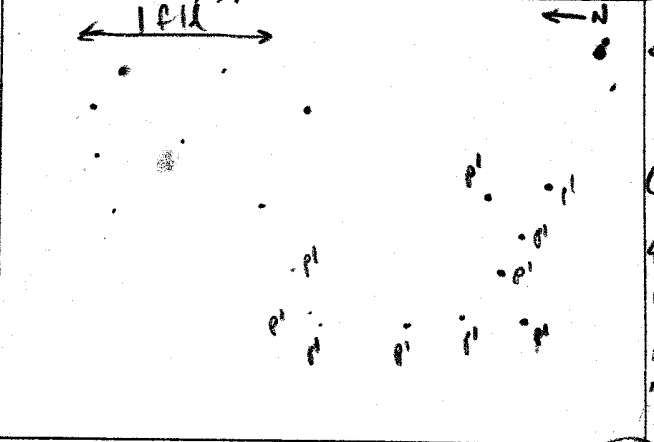
NOTES: EASY! NGC 3640 (3M) SEEN ALSO! 45X

SUBJECT: DBLS DATE: 3/1/96 TIME: 4:30 CST CDT

NOTES: 1 easy, 1-2 & 1-3 PA ~ 170°. Leo also

Con in same 45X field, twilight easy, PA ~ 145°





← Plt dbl 1° WNW of 12 Lib (7.5+8.5, 258") 45X

45X, 4.5° Lovely 3' coma, nonstar nucleus, bright & easy, thanks midnight me for the bins ~ 7m now!

SUBJECT: NYSA DATE: TIME: CST CDT

NOTES:

SUBJECT: COMET HYAKUTAKE II DATE: 3/1/96 TIME: 5:15 CST CDT

NOTES: VERY NICE!

Observing Log

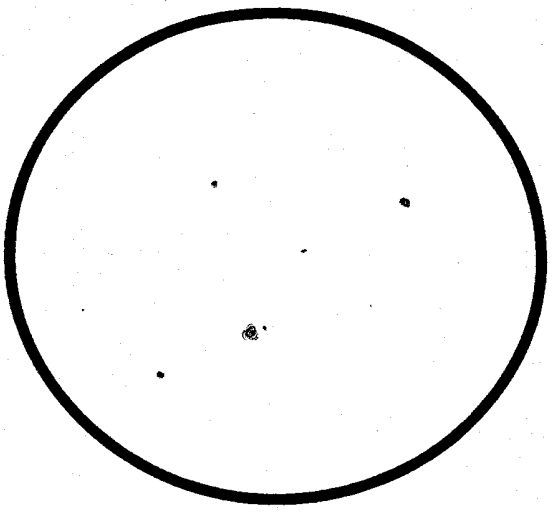
Object type: Galaxy

Object ID: NGC 3655

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 12:20 CDT

Location RMCC

Seeing 8 **Transparency** 4-

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Faint! Near 10m F.S.

(1999 Cole & Pratt)

Observing Log

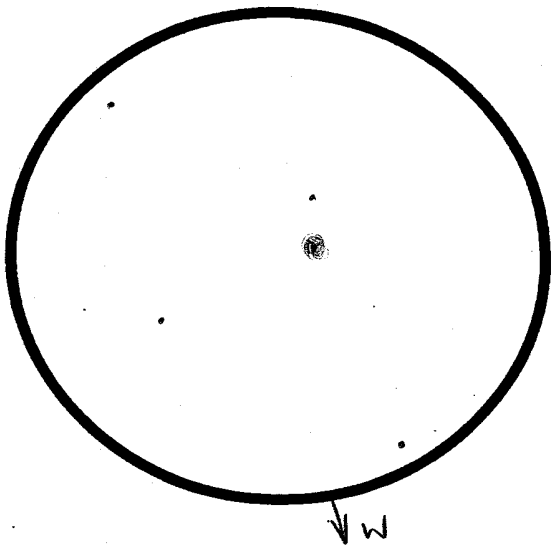
Object type: **Galaxy**

Object ID: NGC 3665

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:20

Location MCC

Seeing 6 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** use
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

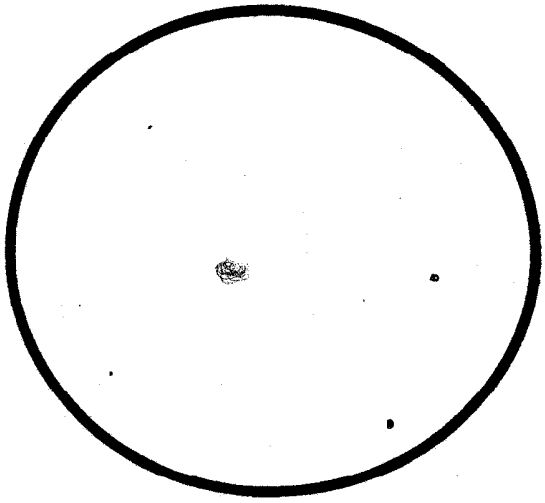
Object type: **Galaxy**

Object ID: NGC3675

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 10:05 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** use
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some mottle
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** A bit of uneven glow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very "dark" field – 2 10m's frame it

(1999 Cole & Pratt)

Observing Log

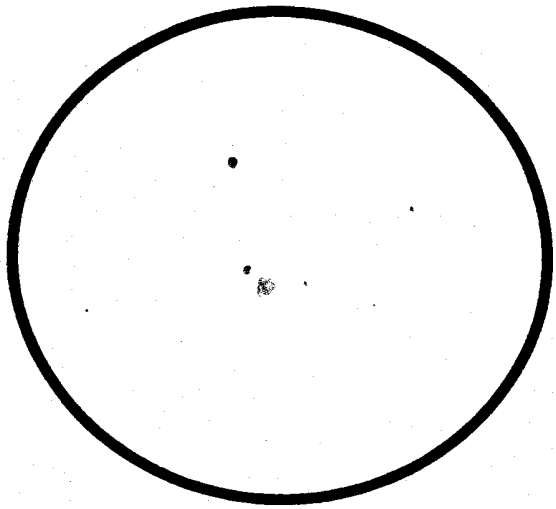
Object type: **Galaxy**

Object ID: NGC 3686

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:50 CDT

Location RMCc

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round (small!)
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

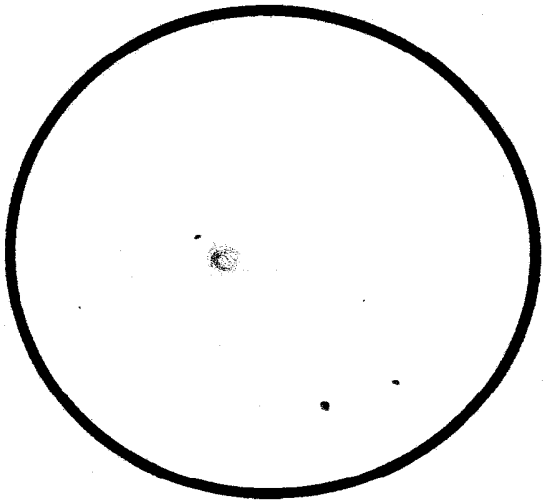
Object type: **Galaxy**

Object ID: NGC 3726

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 10:16 CDT

Location NMCC

Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No - very amorphous
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

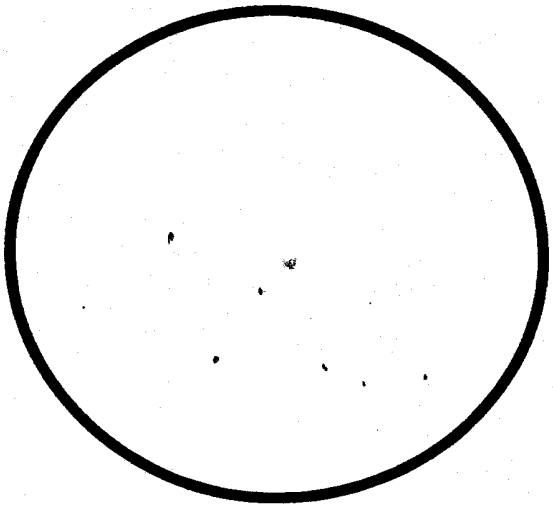
Object type: **Galaxy**

Object ID: NGC 3729

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 11:30 CDT

Location RMCE

Seeing 8 **Transparency** 4

Instrument 8TX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** (best use)
- **What is the overall shape?** Amorphous
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Const handle 153x — too faint

(1999 Cole & Pratt)

Observing Log

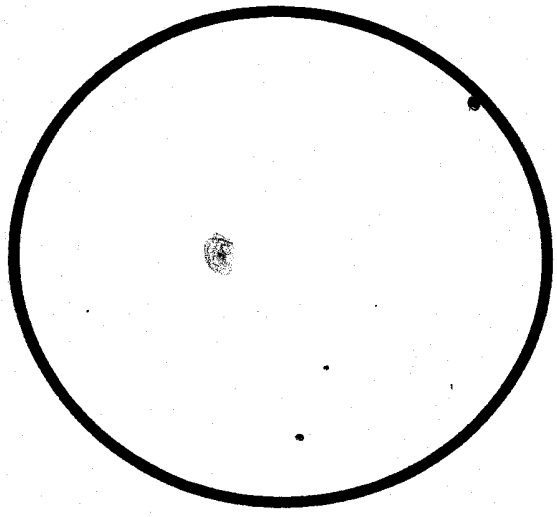
Object type: **Galaxy**

Object ID: NGC 3810

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/8/4

Time 11:55 CDT

Location RMCE

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is (best) averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Barely
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or (diffuse)?** fades to black
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

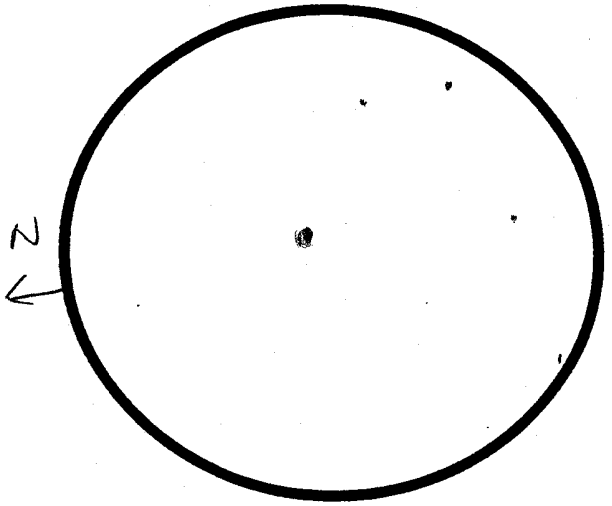
Object type: **Galaxy**

Object ID: NGC 3813

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/11/4

Time 10:35 CDT

Location RMCC

Seeing 3 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval – but S side does seem a little brighter
- **Is a core noticeable?** No, unless → is offset core – didn't seem so
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** One side brighter
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

sat seen 10:33:29

61 55 46

w/ eye ~4.5m then gone

n.e.

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 3877

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/16/4

Time 11:40 CDT

Location RMCC

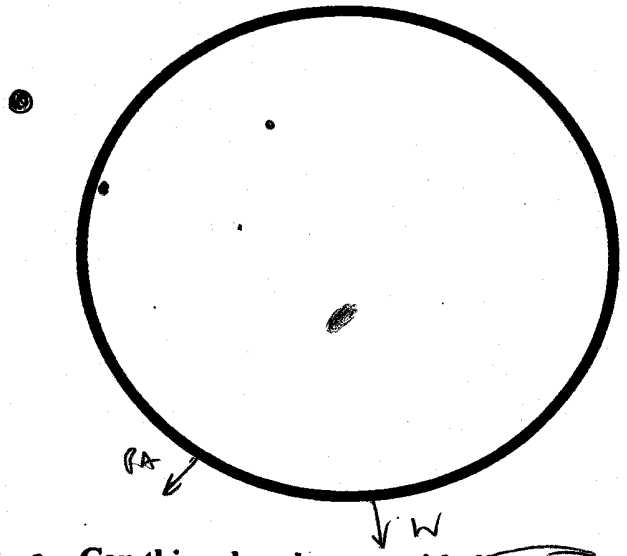
Seeing 8 **Transparency** 4-

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elongated glow
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No - even
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Even
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

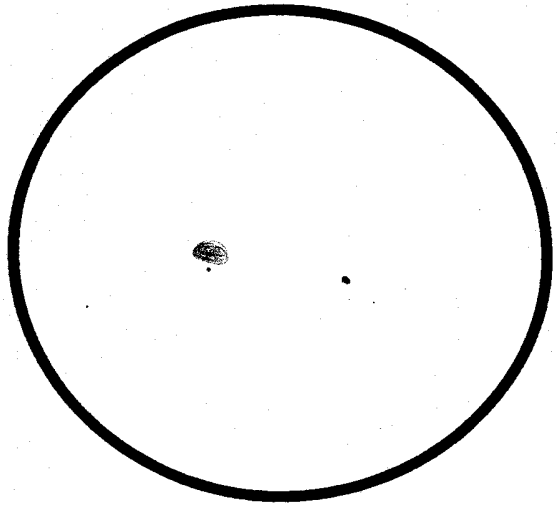
Object type: Galaxy

Object ID: NGC 3893

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 11:55 CDT

Location RMCC

Seeing 8 **Transparency** 4-

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Not really
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Just E of fis. (~11m)

(1999 Cole & Pratt)

Observing Log

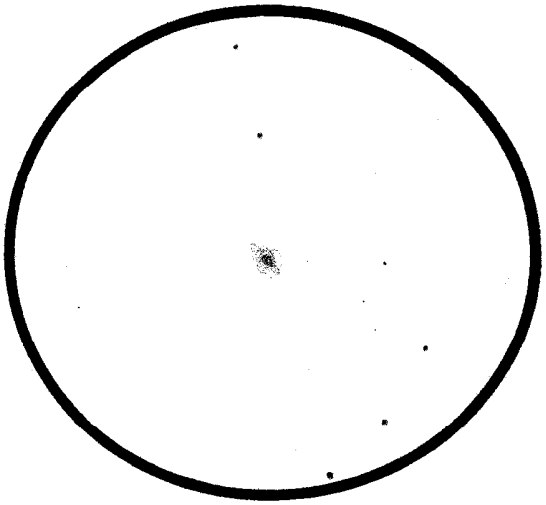
Object type: **Galaxy**

Object ID: NGC 3898

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 11:05 CDT

Location RUMCC

Seeing 8 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** sl. elong
- **Is a core noticeable?** Very much
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of shape
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Not an ellipse – can tell from shape

(1999 Cole & Pratt)

Observing Log

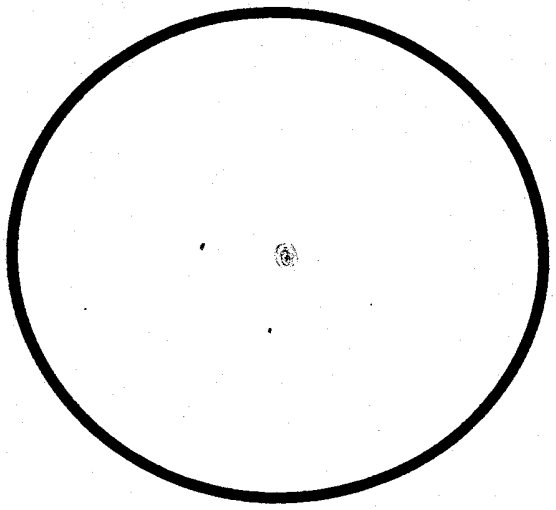
Object type: **Galaxy**

Object ID: NGC 3900

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 1:10 CDT

Location RMCC

Seeing 8- **Transparency** 3

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 3912 to S m47x

Description Very faint

(1999 Cole & Pratt)

Observing Log

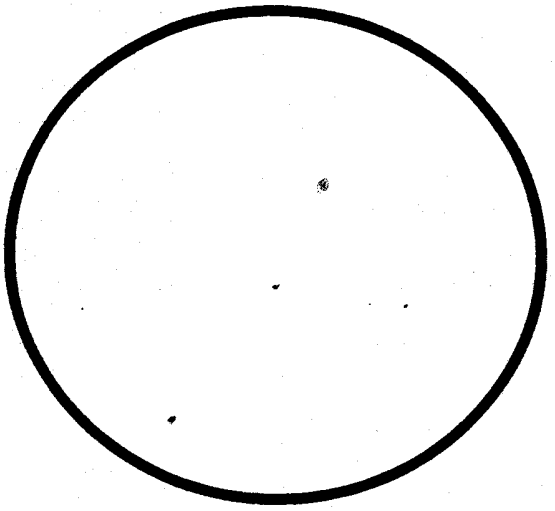
Object type: **Galaxy**

Object ID: NGC 3912

Const.: Leo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 1:15 CDT

Location RMCC

Seeing 8- **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision only required?**
- **What is the overall shape?** None
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 3900 to N in 47x

Description Very small & faint

(1999 Cole & Pratt)

Observing Log

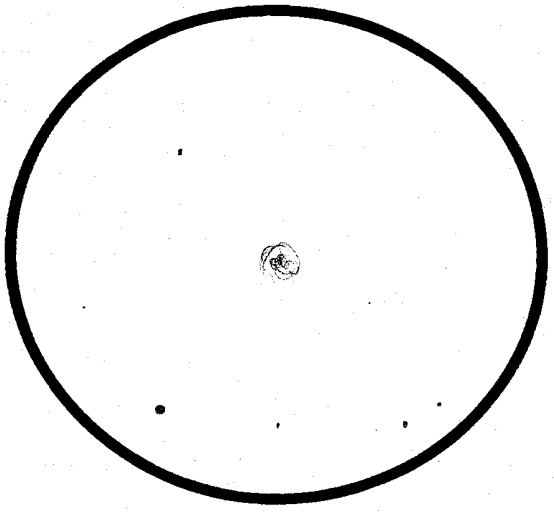
Object type: **Galaxy**

Object ID: NGC 3938

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 12:10 CDT

Location RMCC

Seeing 8 **Transparency** 4-

Instrument BTX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Some hint of "arm" structure
- **Are the edges of the outer envelope sharp or (med) diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

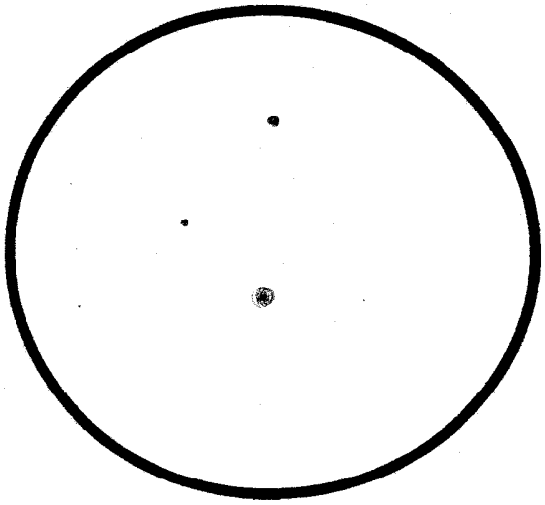
Object type: **Galaxy**

Object ID: NGC 3941

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 10:50 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No - even
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

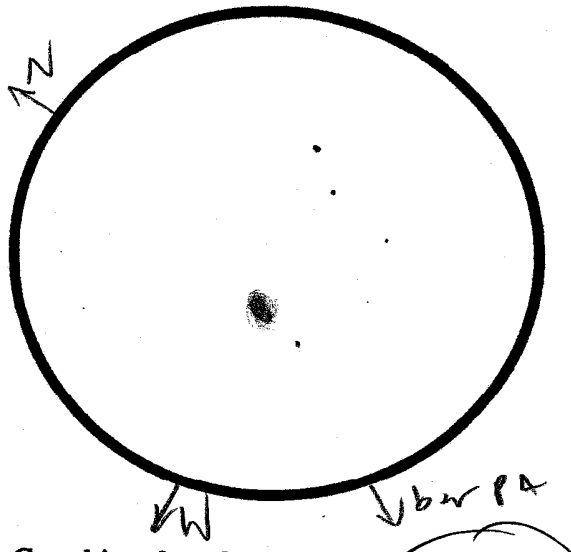
Object type: **Galaxy**

Object ID: NGC 3945

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:40 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Hint of bar as shown
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** As noted
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Large - even glow - hint of bar was very subtle

(1999 Cole & Pratt)

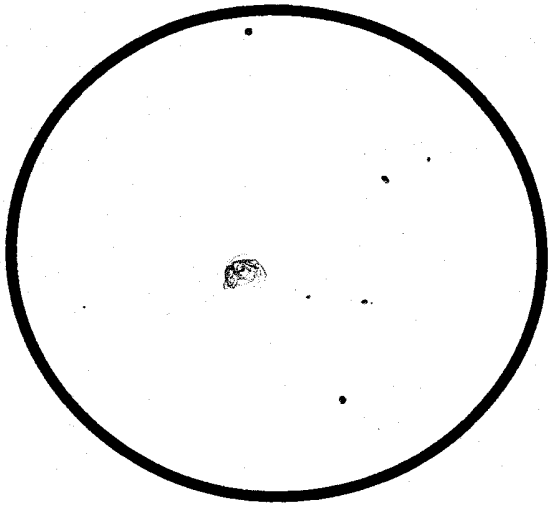
Observing Log
Object type: Galaxy

Object ID: NGC 3949

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 12:00 CDT

Location RMCC

Seeing 8 **Transparency** 4-

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** yes
- **What is the overall shape?** Ovl shape
- **Is a core noticeable?** Ou
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of shape
- **Are the edges of the outer envelope sharp or diffuse?** Med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** hints of shape(?)
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

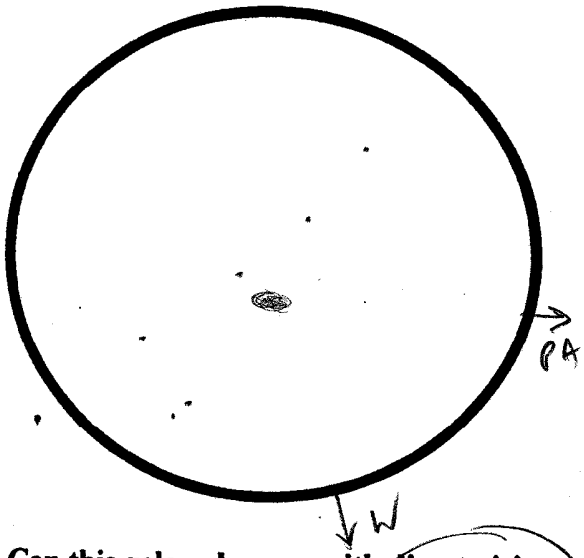
Object type: **Galaxy**

Object ID: NGC 3953

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 10:50 CDT

Location RMCE

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** use
- **What is the overall shape?** I see some elong w/AV
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Confirmed

(1999 Cole & Pratt)

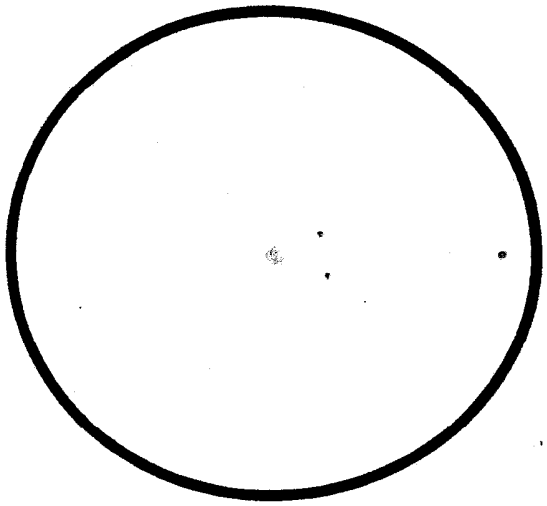
Observing Log
Object type: **Galaxy**

Object ID: NGC 3953

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 11:30 CDT

Location RMCC

Seeing 7 **Transparency** 3-

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 42x

153x 4.7 5.7

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round-ish
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

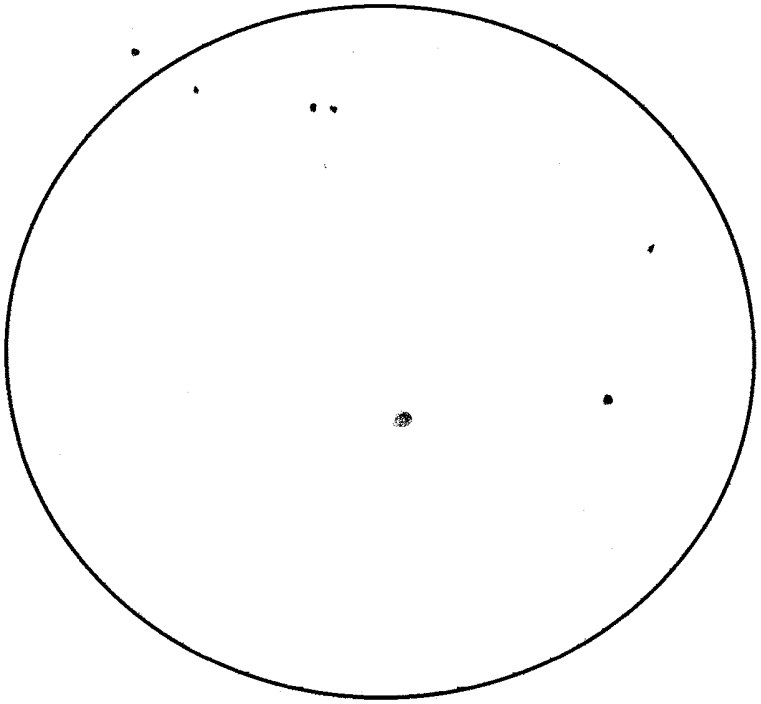
Description Very faint - AV only to confirm

(1999 Cole & Pratt)

DATE 4/26/3 **TIME** 11:15 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (CTX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 3962 **LOCATION** (RMCC) HOME _____



WELL - SAW SOMETHING IN CENTER - NOT MUCH ELSE TO SAY - DIM EVEN SMALL GLOW

Observing Log

Object type: **Galaxy**

Object ID: NGC 3982

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/15/4

Time 11:15 CDT

Location RMCC

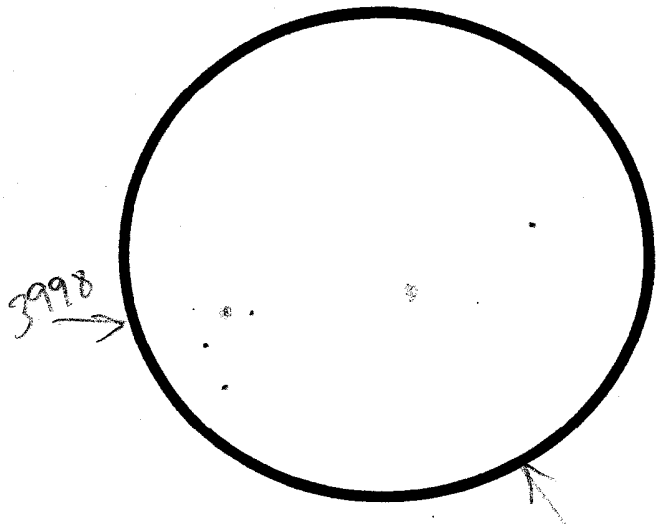
Seeing 7 **Transparency** 3-

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 42x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** 3998 (see its record)

3992 (earlier was 3998 change?)

Description _____

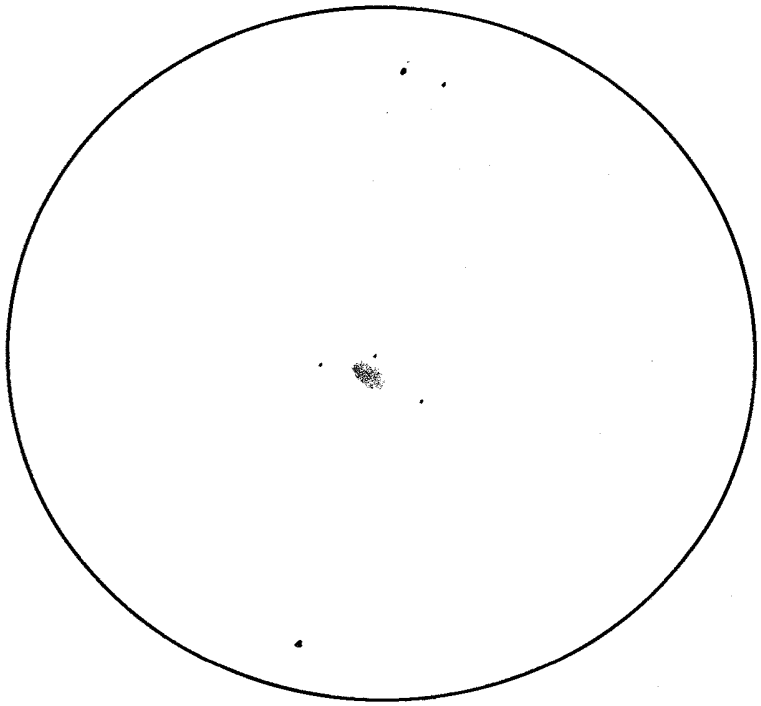
(1999 Cole & Pratt)

NGC 3992

DATE 7/19/3 **TIME** 9:55 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M 109 **LOCATION** (RMCC) HOME _____



AMORPHOUS GLOW IN RELATIVELY SPARSE AREA

~1° SE OF γ UMa – BARLISH SHAPE

Observing Log

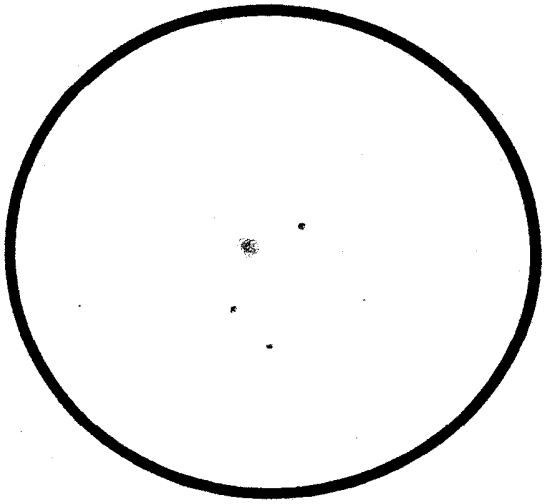
Object type: **Galaxy**

Object ID: NGC 3998

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/15/4

Time 10:50 CDT

Location RNCC

Seeing 7 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 72x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** somewhat
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 3982

Description Noticed this was NGC 3998, not 3982 after finding it later (see that record)

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 4026

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/16/4

Time 11:20 CDT

Location RMCC

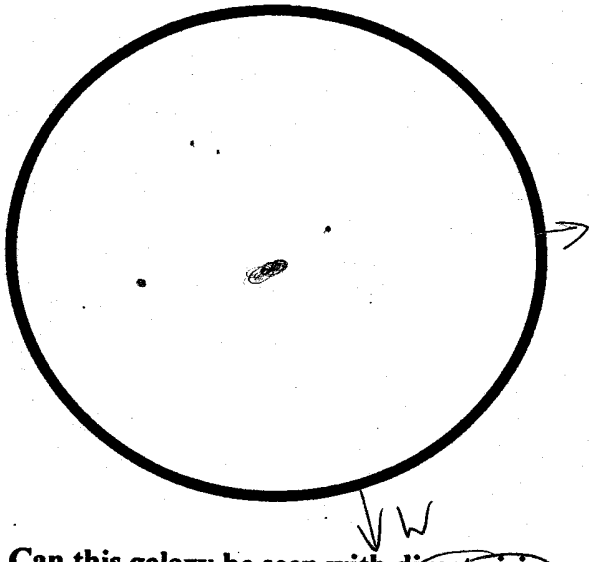
Seeing 8 **Transparency** 4

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?** gets
- **What is the overall shape?** elong – & the → side is brighter
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Yes, S side brighter
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

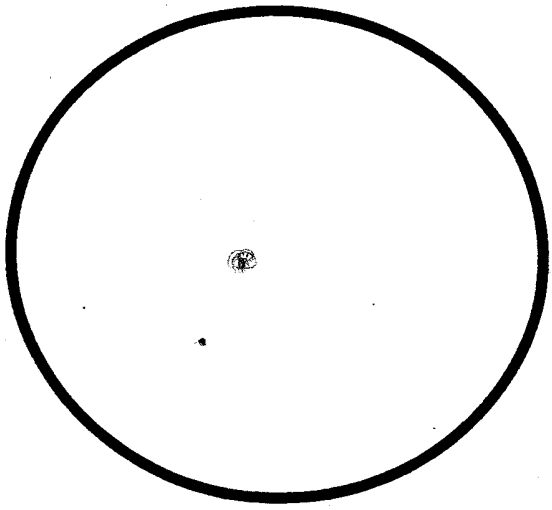
Object type: **Galaxy**

Object ID: NGC 4027

Const.: Cor

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 12:20

Location RMCC

Seeing 7 **Transparency** 3

Instrument ~~ET~~ X 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** (use)
- **What is the overall shape?** Round
- **Is a core noticeable?** Somewhat
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description 47x edge of brighter — 153x not much better

(1999 Cole & Pratt)

Observing Log

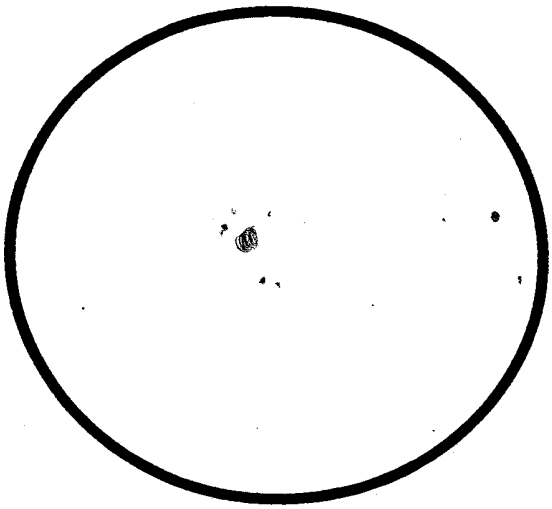
Object type: **Galaxy**

Object ID: NGC 4030

Const.: Vir

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:00

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 163X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Not to me!
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Even glow
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

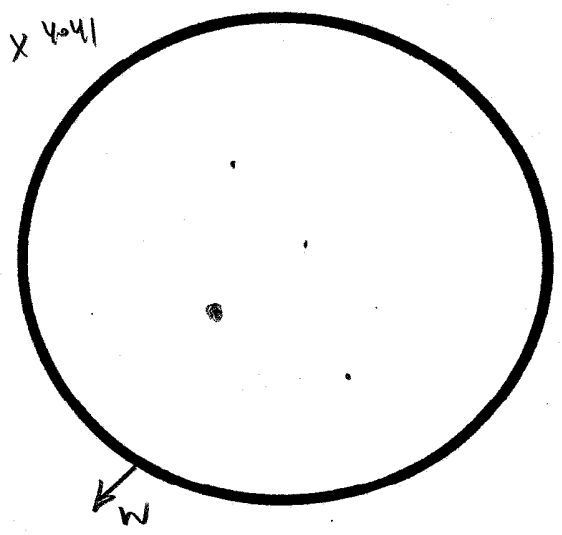
Object type: **Galaxy**

Object ID: NGC 4036

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:50 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** otherwise it is only stellar
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes - overbearing
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 4041 ½° N just outside field

Description _____

(1999 Cole & Pratt)

Observing Log

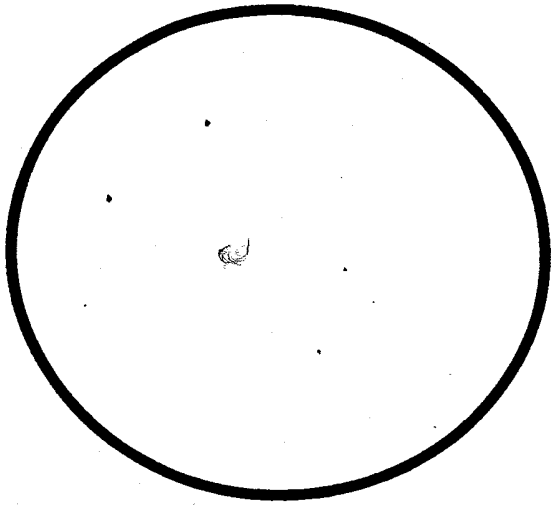
Object type: **Galaxy**

Object ID: NGC 4038/4039

Const.: Cor

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 12:30

Location RMCC

Seeing 7- **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision (use) required?**
- **What is the overall shape?** "shrimp" like
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** "4038" leads to "4039 tail like a empty bubble with no top
- **Are the edges of the outer envelope sharp (mod) or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

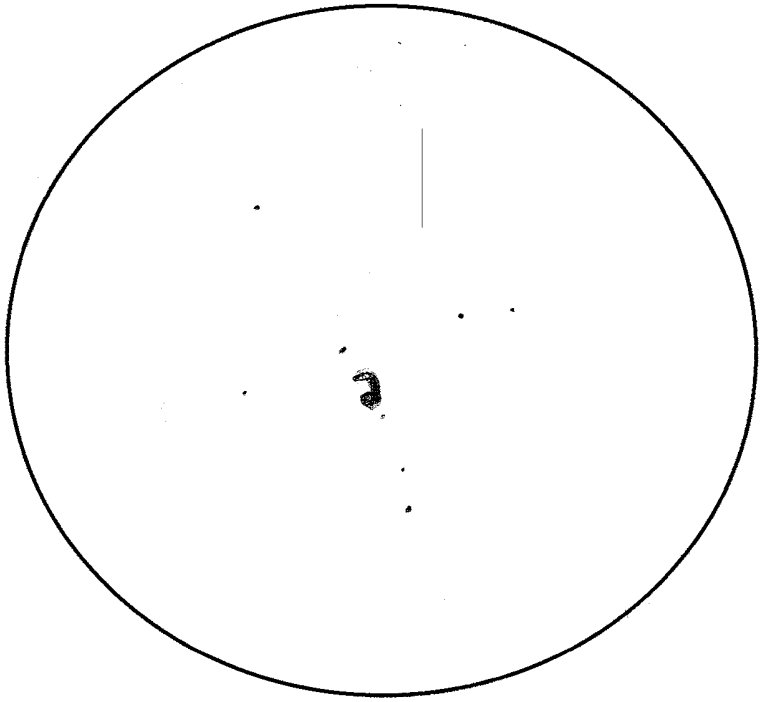
Description Always a Strange sight

(1999 Cole & Pratt)

DATE 4/26/3 **TIME** 11:55 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (RTX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 4038/39 **LOCATION** (RMCO) HOME _____



SLIGHT "C" SHAPE - DIDN'T AVSIT - NOT BRIGHT

CURIOUS GLOW ALMOST BRIGHTER ON OUTSIDE

EDGES THAN "NUCLEUS"

Observing Log

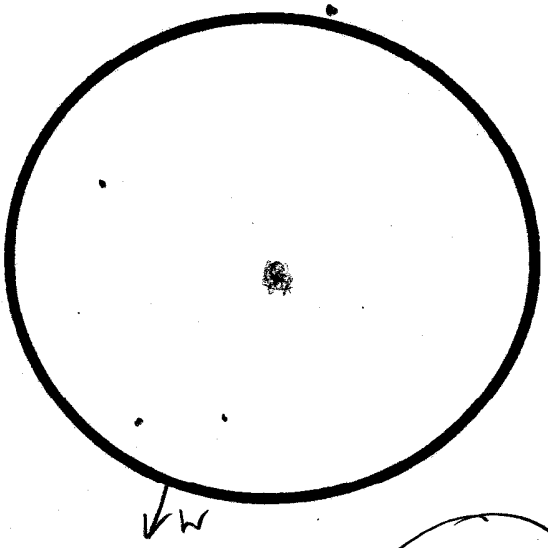
Object type: **Galaxy**

Object ID: NGC 4041

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:45 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

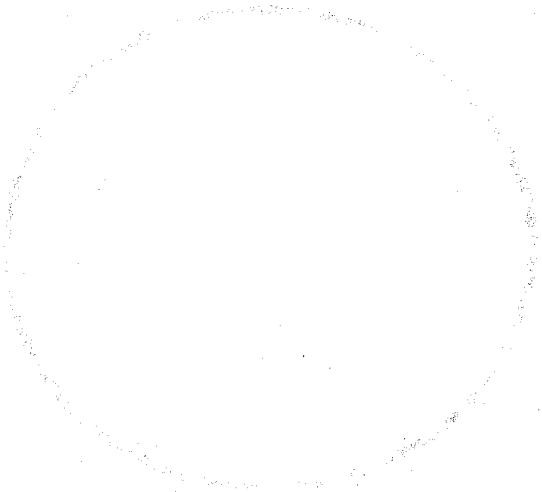
Eyepiece 12.4

Field of view _____ **Power** 153X

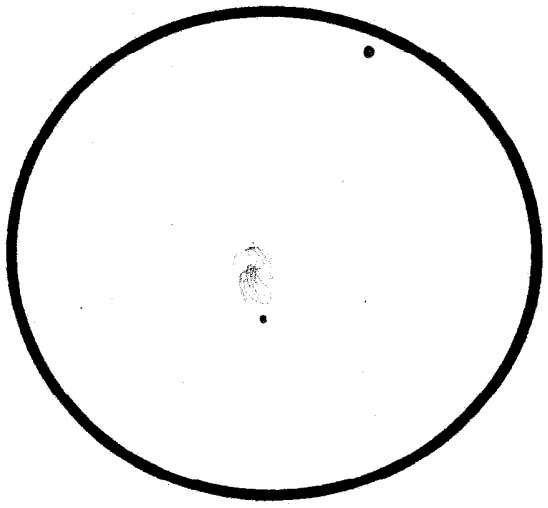
- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Definitely mottled - hint of arm
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** Not at 153x but

Description NGC 4038 ½° away - this is much the easier of the two

(1999 Cole & Pratt)



Mag: _____ Size: _____



Time 11:05 CDT

Location RMCC

Seeing 8 Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ Power 153x

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round
- Is a core noticeable? No
- Is the core compact or stellar? N/A
- Can any detail be seen between the core and the outer envelope of the object? Some hint of arms
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? See dust — not as obvious as drawn but hints
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

(1999 Cole & Pratt)

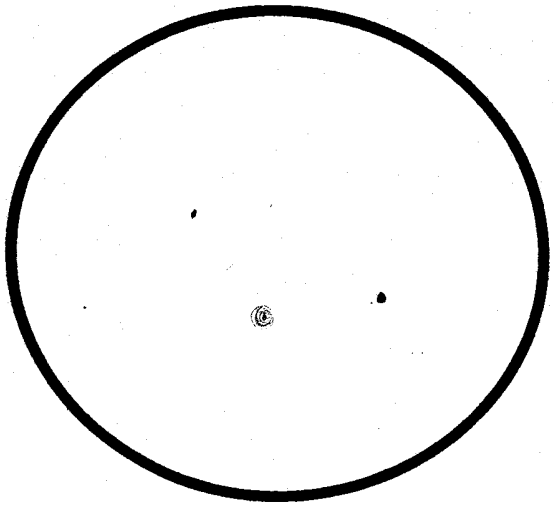
Observing Log
Object type: **Galaxy**

Object ID: NGC 4085

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 11:15 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** 4088 M47X Field

Description Limit of visibility

(1999 Cole & Pratt)

Observing Log

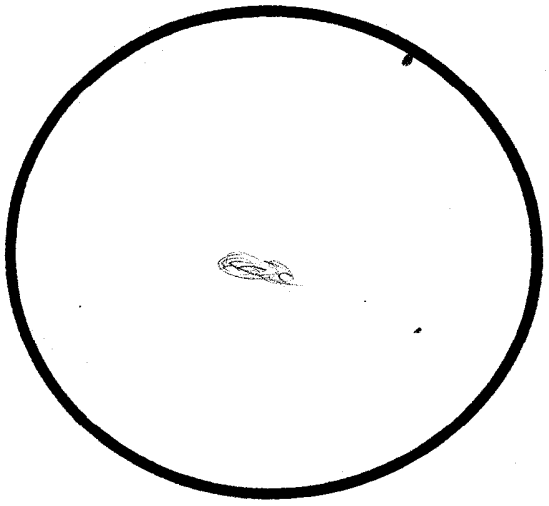
Object type: **Galaxy**

Object ID: NGC 4088

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/16/4

Time 11:10 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elong!
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Hazy knots
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Some mottle to glow
- **Are there any other deep-sky objects in the same field of view? If so, what?** 4085 m 47x 411

Description _____

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 4102

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/16/4

Time 11:00 CDT

Location RMCE

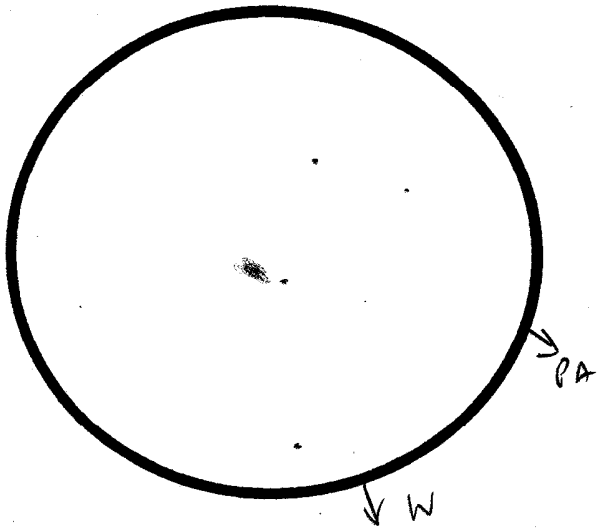
Seeing 8 **Transparency** 4

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elongated
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Foreground star (?)
- **Are the edges of the outer envelope sharp or diffuse?** Med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log
Object type: **Galaxy**

Object ID: NGC 4111

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/17/4

Time 1140 CDT

Location RMCC

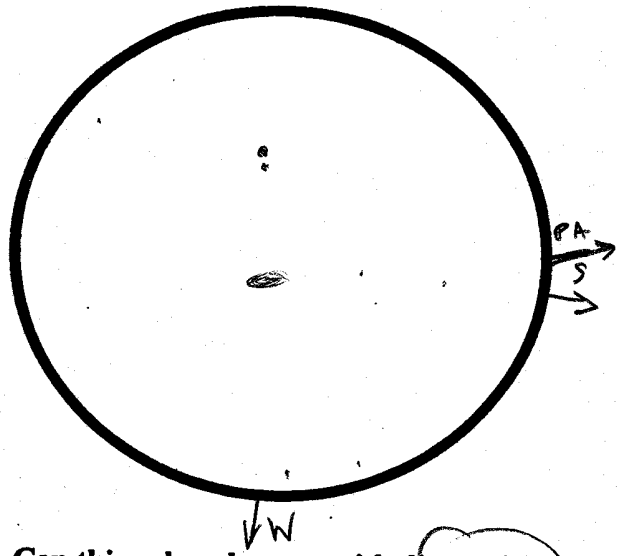
Seeing 7 **Transparency** 3

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?** really extend it
- **What is the overall shape?** Elong
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Had logged dbl N of ? (?) see attached
Or is this the plotted one to N (?)

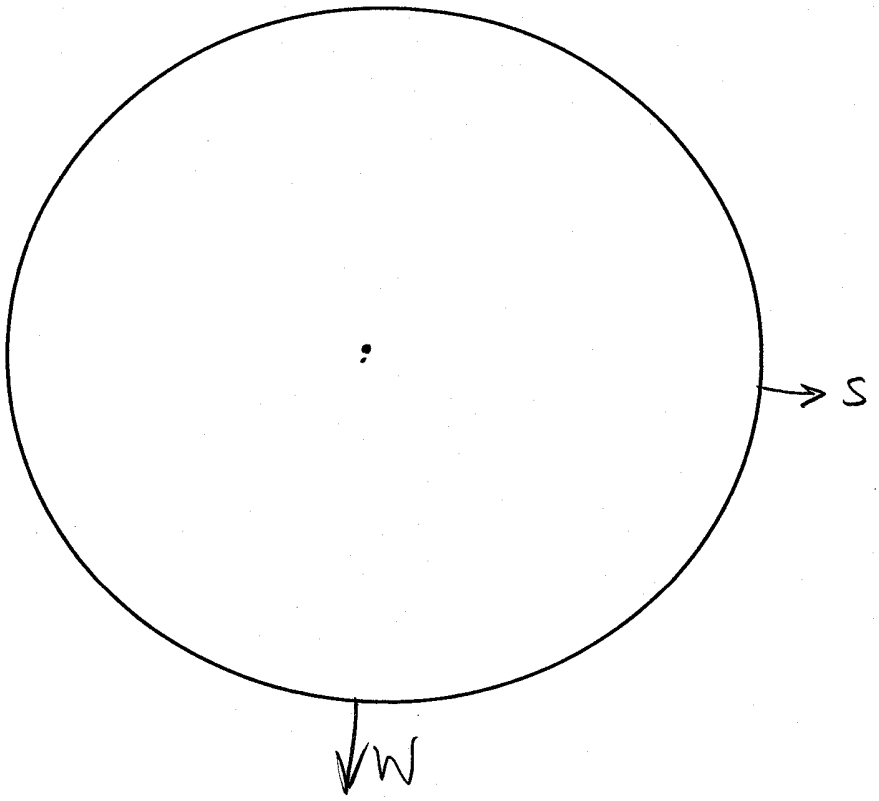
(1999 Cole & Pratt)

DATE 5/17/4 **TIME** 1135 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10 47 73 (153) 316 475

OBJECT _____ **FILTER** (NO) NB WB OIII ____

OBS. PROGRAM _____ **LOCATION** (RMCC) HOME _____



Near NGC 4138 happened on w/b & white

Observing Log

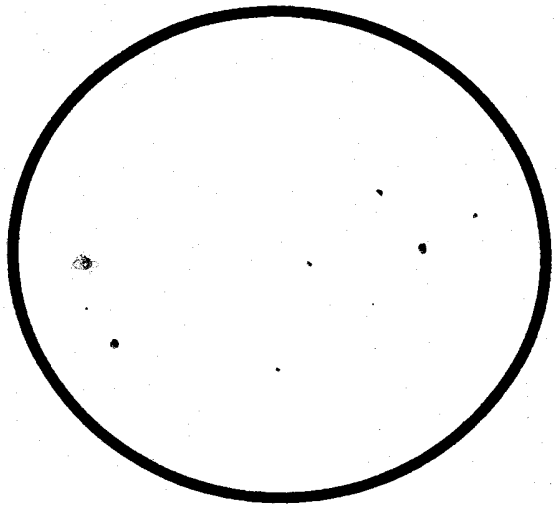
Object type: **Galaxy**

Object ID: NGC 4143

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 2100 CDT

Location RMCC

Seeing 7 **Transparency** 3

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** really helps w/glow
- **What is the overall shape?** Roundish
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** abit
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description great first to find it with!

(1999 Cole & Pratt)

Observing Log

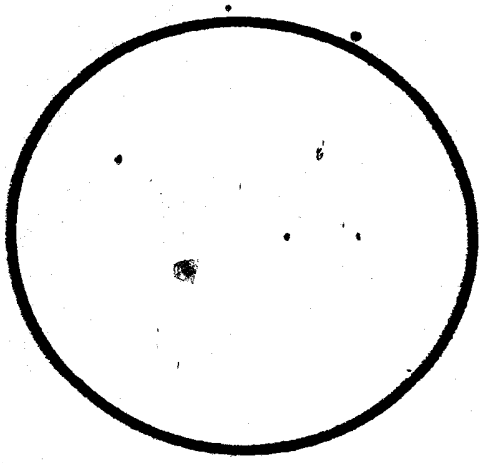
Object type: **Globular Cluster**

Object ID: NGC 4147

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 9:50 CDT

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly (Mod) or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** Edges
- **Is any mottling visible?** Yes
- **Can the edges be resolved?** Yes
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Preuß)

Observing Log

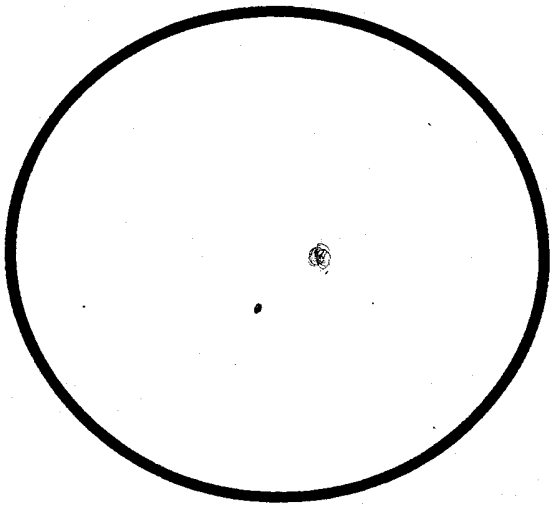
Object type: **Galaxy**

Object ID: NGC 4150

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:40

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision (best) required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Rather elusive for an elliptical

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 4157

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/17/4

Time 1:30 CDT

Location RMCC

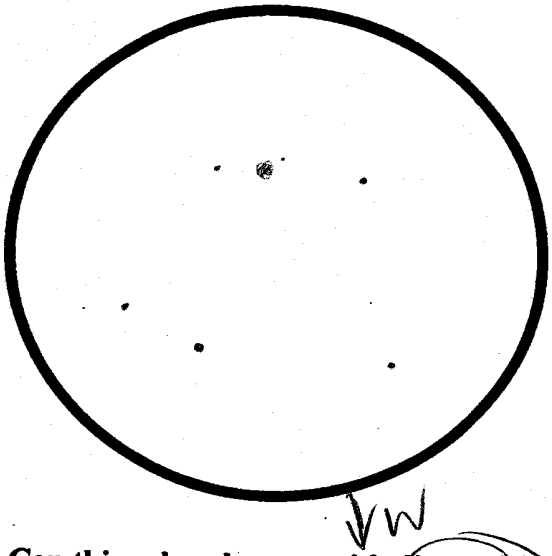
Seeing 8 **Transparency** 4-

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

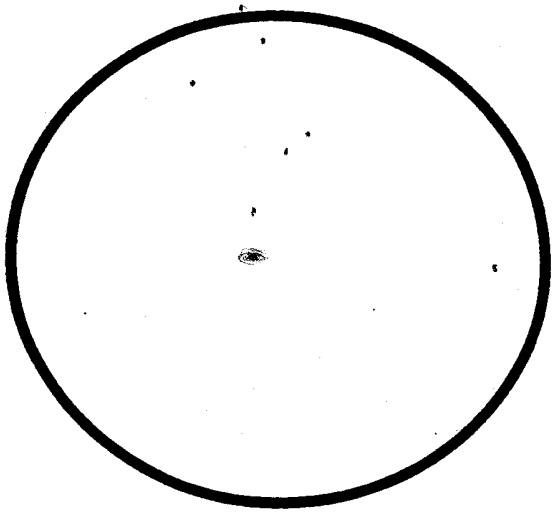
Object type: **Galaxy**

Object ID: NGC 4179

Const.: Vir

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:10

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** brighter at elong
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Nice glow evenly dimming
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

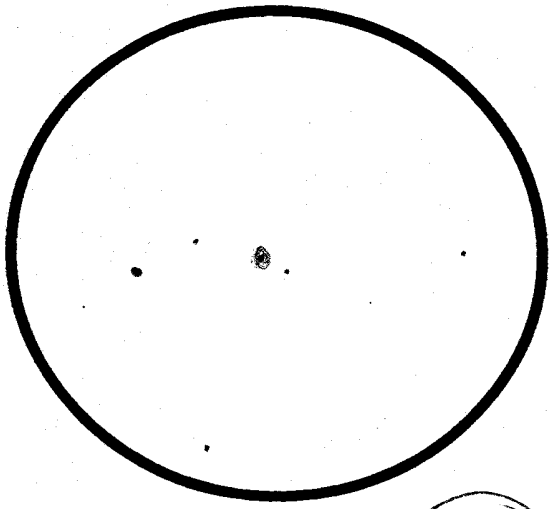
Object type: Galaxy

Object ID: NGC 4203

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/4

Time 1100 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** (seen w/ / use to get glow)
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Glow - evenly dimming
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

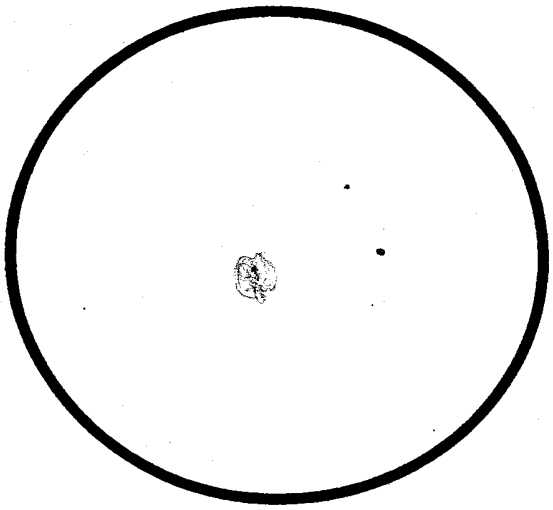
Object type: **Galaxy**

Object ID: NGC 4214

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:45

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval, some hint of spiral arms shown
- **Is a core noticeable?** Barely
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes, uneven almost spirally
- **Are the edges of the outer envelope sharp or (mod) diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Yes
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Large, very Isolated

(1999 Cole & Pratt)

Observing Log

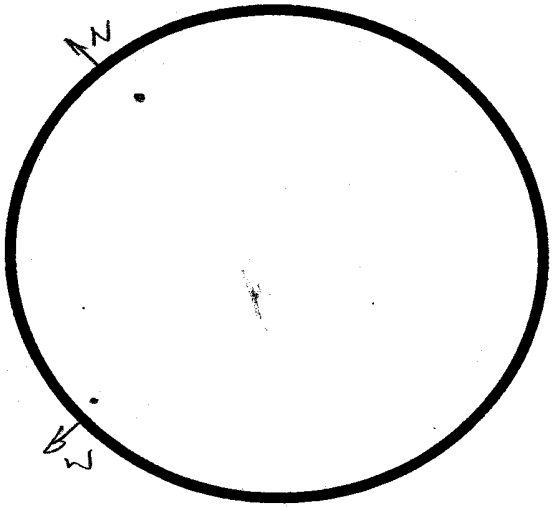
Object type: **Galaxy**

Object ID: NGC 4216

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 11:20 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** "Needle"
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some halo - esp. on N side (PA~30°)
- **Are the edges of the outer envelope sharp or diffuse?** on N ↗ on S
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** ↑
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Also seen 47x - 23:11:40 6m sat E Vir going S easily

23:12:19 SHE or Lib ~~x~~ or Vir

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 4245

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/17/4

Time 12:50 CDT

Location RMCC

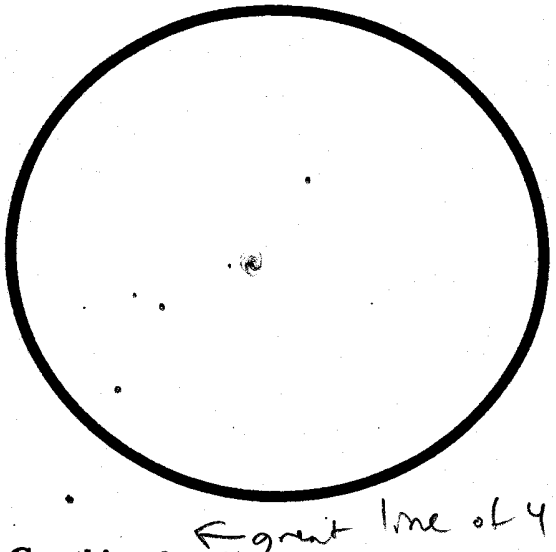
Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



Faint line of 4

- **Can this galaxy be seen with direct vision, or is averted vision required?** averted
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description "Star" w/ fuzzy glow

(1999 Cole & Pratt)

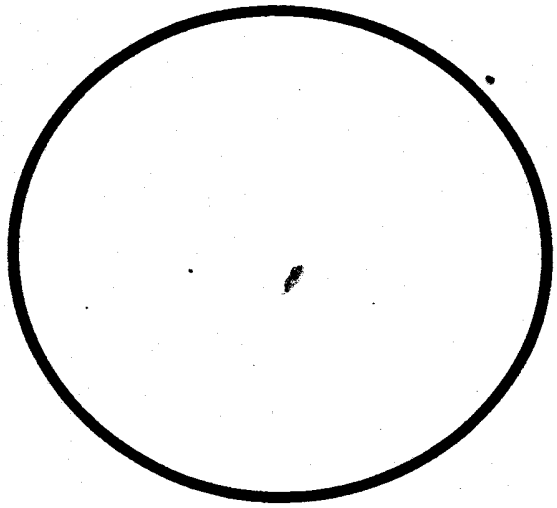
Observing Log
Object type: **Galaxy**

Object ID: NGC 4251

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/17/14

Time 12:30 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** but gets
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** AV gets elong glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

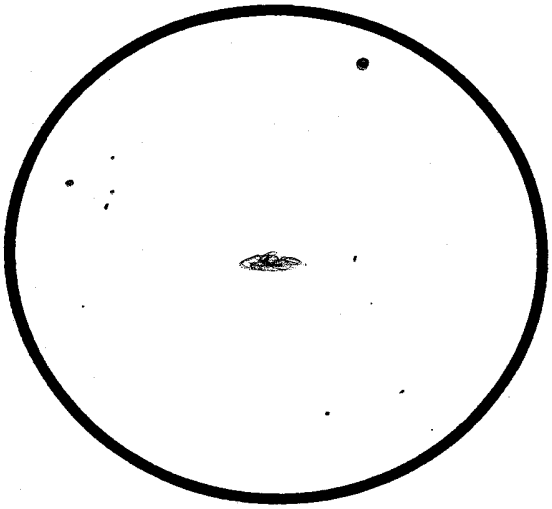
Object type: **Galaxy**

Object ID: M106 (NGC 4258)

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:50

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong, almost a streak but a little fat
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of irregular glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Not much except
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

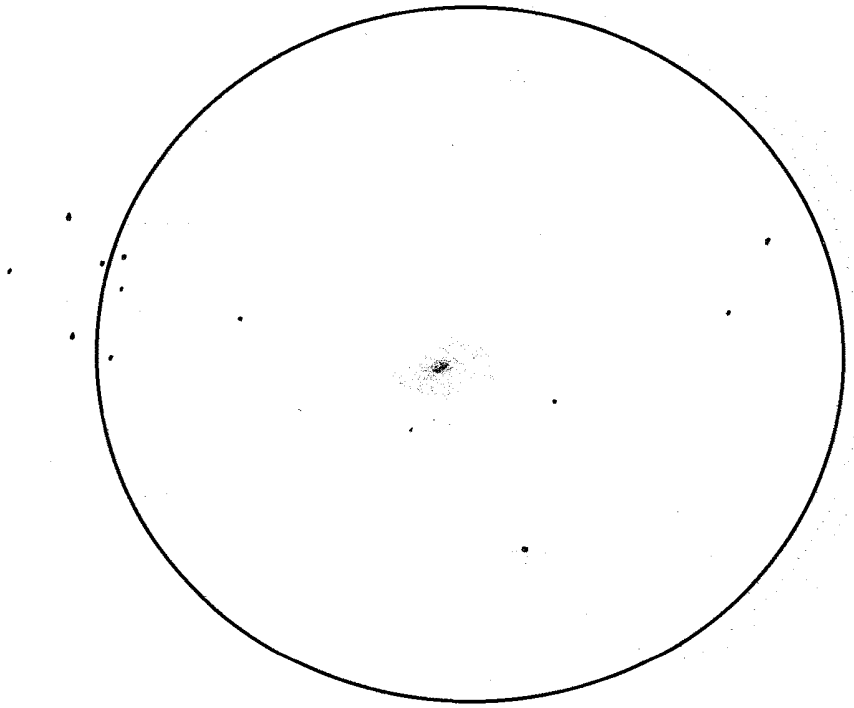
(1999 Cole & Pratt)

NGC
4258

DATE 6/27/13 **TIME** 10:45 CST CDT **CLARITY** I (II) III IV V **SEEING** I I (II) IV V

INSTRUMENT ~~ETX 125~~ 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M106 **LOCATION** (RMCC) HOME _____



very beautiful glow - larger than I remember

Observing Log

Object type: **Galaxy**

Object ID: NGC 4261

Const.: Vir

RA: _____ **Dec.:** _____

Mag: _____ • **Size:** _____

Observer BY

Date 5/21/4

Time 1:20

Location RMCC

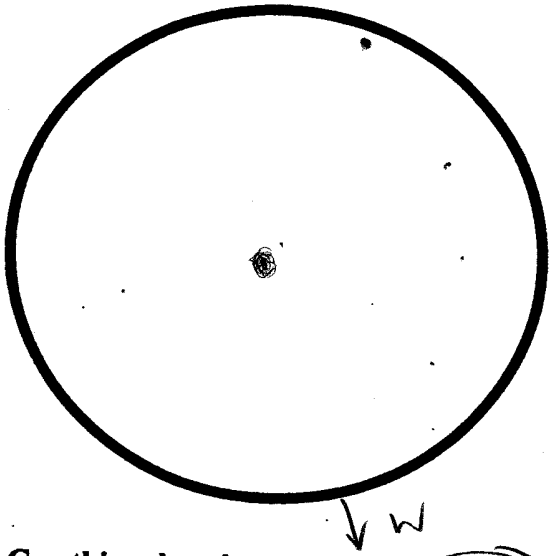
Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round - nice glow!
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Hints
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Not dim to me

(1999 Cole & Pratt)

Observing Log

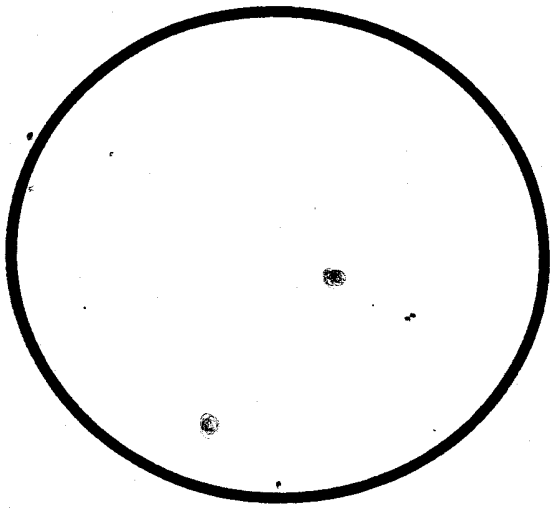
Object type: Galaxy

Object ID: NGC 4273/4281

Const.: Vir

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1130

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round (both)
- **Is a core noticeable?** Somewhat (4273) No (4281)
- **Is the core compact or stellar?** 4273
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of uneven glow in 4273
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

1:27 bright green meteor June train evir → Leo up to 0 mag

Description _____

probably June Bootid

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 4274

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/20/4

Time 11:40

Location RMCC

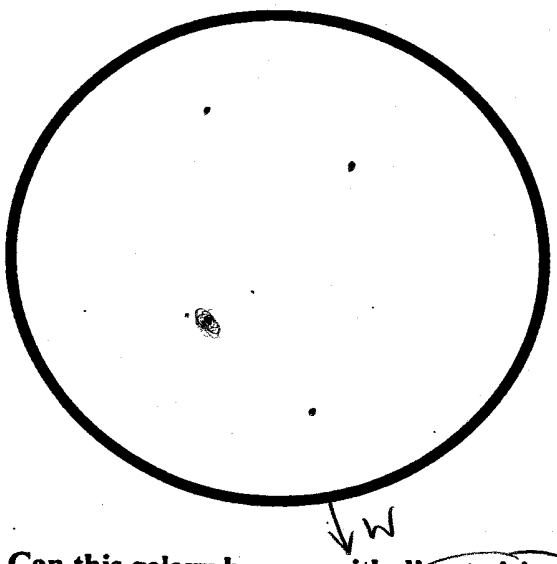
Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval – 2X1 elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?** almost
- **Can any detail be seen between the core and the outer envelope of the object?** No, evenly dimmy slow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

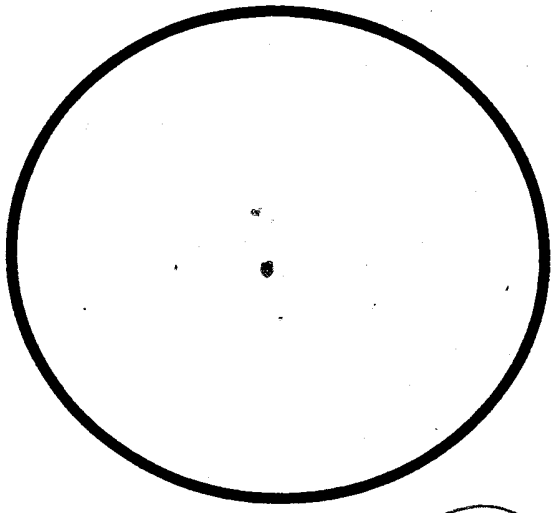
Object type: **Galaxy**

Object ID: NGC 4278/4283 (?)

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 11:50

Location RMCC

Seeing 7 **Transparency** 3+

Instrument ~~ET~~ X 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision (4278), or is averted vision (4283) required?**
- **What is the overall shape?** Round & "fuzzy star"
- **Is a core noticeable?** No - both even
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** (fairly)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description 4283 at edge of RCAV

(1999 Cole & Pratt)

Observing Log

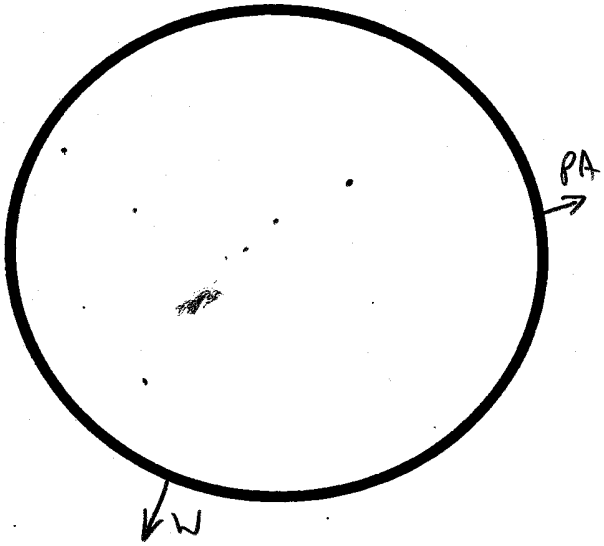
Object type: **Galaxy**

Object ID: NGC 4293

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:30

Location RMCC

Seeing 6 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 163x

- **Can this galaxy be seen with direct vision, or is averted vision required?** best
- **What is the overall shape?** Amorphous
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Strange uneven glow & granularity
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Granular as noted
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

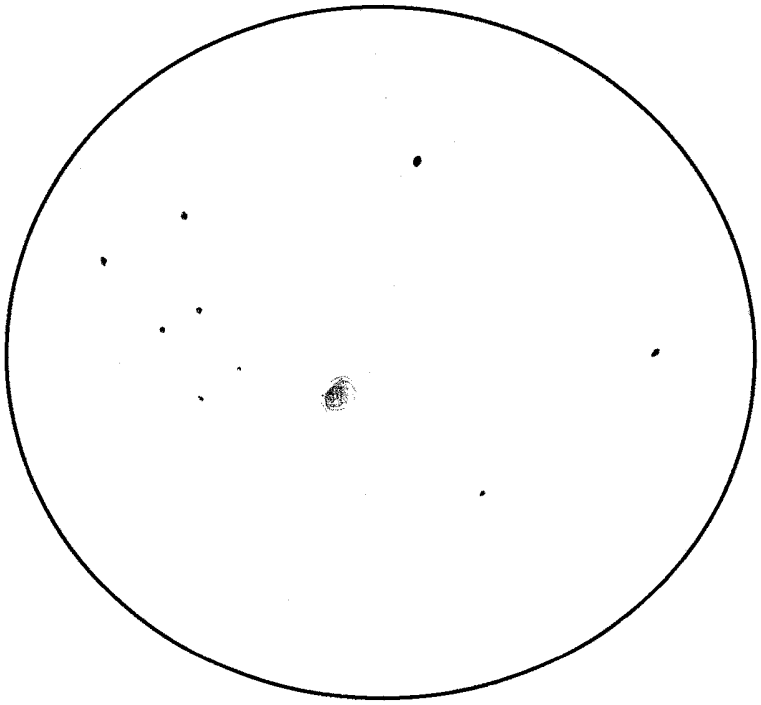
(1999 Cole & Pratt)

NGC 4303

DATE 4/20/3 **TIME** 11:50 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M61 **LOCATION** (RMCC) HOME _____



Very even oval glow w/ next asterism as sham

Didn't push power

Observing Log

Object type: **Galaxy**

Object ID: NGC 4314

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/17/4

Time 12140 CDT

Location RMCC

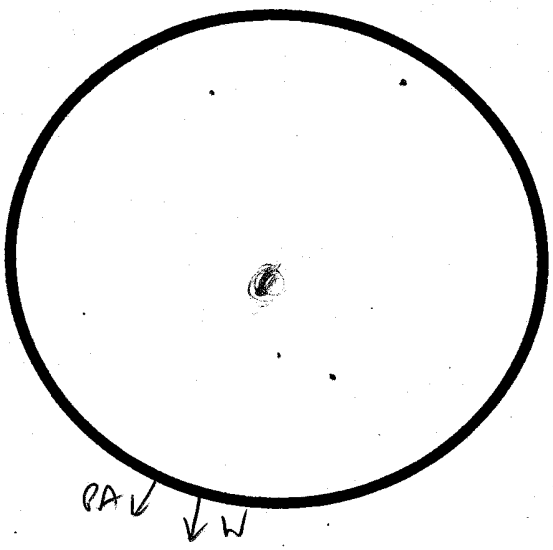
Seeing 8 **Transparency** 4

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?** use
- **What is the overall shape?** bar + glow
- **Is a core noticeable?** Bar
- **Is the core compact or stellar?** Bar
- **Can any detail be seen between the core and the outer envelope of the object?** Bar + glow w/some hint of round glow
- **Are the edges of the outer envelope sharp or diffuse?** somewhat
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** ↗
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

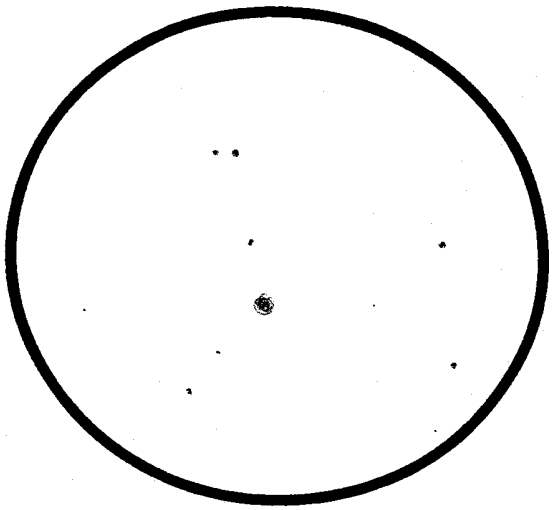
Object type: **Galaxy**

Object ID: NGC 4314

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 12:00

Location MCC

Seeing ? **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this galaxy be seen with (direct vision,) or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Extended
- **Is the core (not very compact) or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or (diffuse?)**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Pretty push-delicate

(1999 Cole & Pratt)

Observing Log

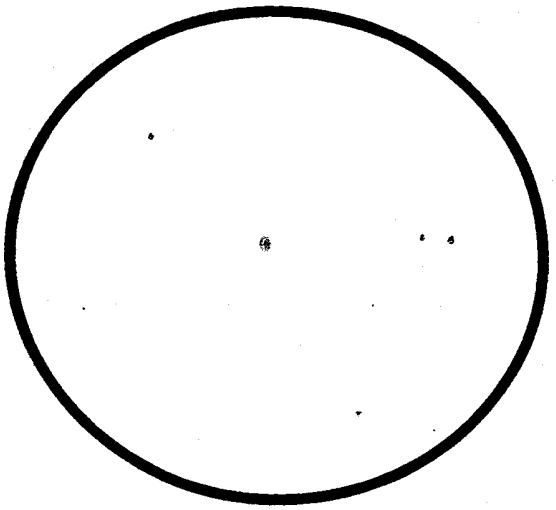
Object type: **Galaxy**

Object ID: NGC 4346

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 1:55

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round stellar
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Just a hint of neb around fuzzy core @ AV edge of visibility

(1999 Cole & Pratt)

Observing Log

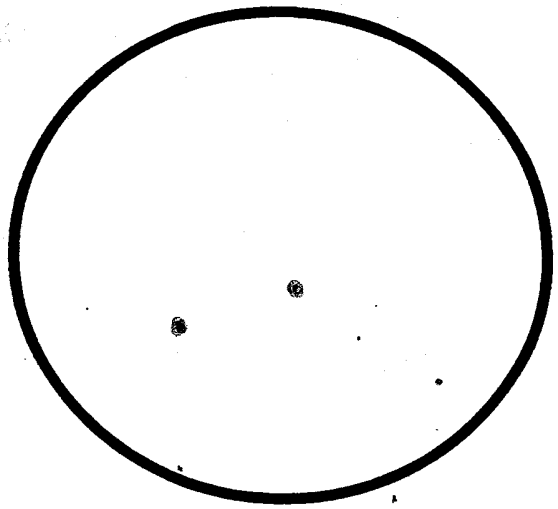
Object type: **Galaxy**

Object ID: NGC 4340/4350

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:40

Location RMCC

Seeing 6 **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Both round elliptical
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Slightly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

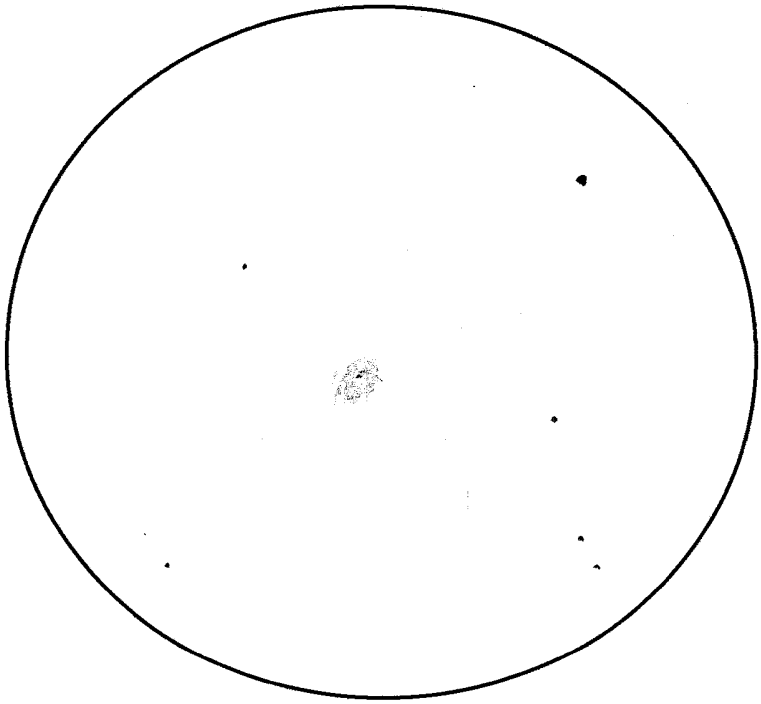
Description _____

(1999 Cole & Pratt)

DATE 4/26/3 **TIME** 11:50 CST (CDT) **CLARITY** (I) II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (53X) 475X

OBJECT NGC 4361 **LOCATION** (RMCC) HOME _____



ELONG AS SHOWN - IS THAT THE C.S. OR FOREGROUND? WELL SEEN - SL. BLUE APPEARANCE.

NEB FILTER MADE ARTIFICIALLY SHARPER - ARTIFACT I THINK - NOT REALLY A HELP.

Observing Log

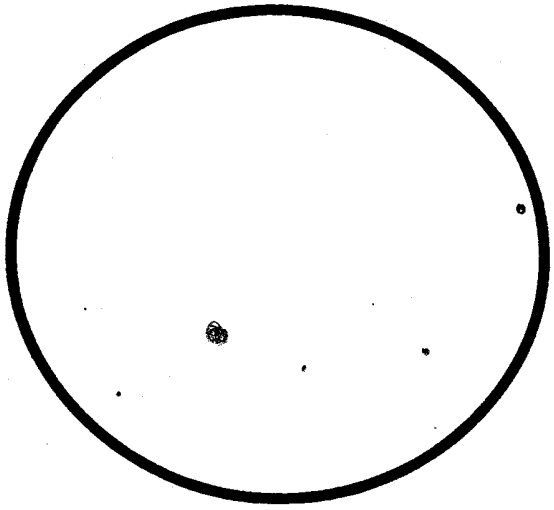
Object type: **Galaxy**

Object ID: NGC 4361

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 11:30 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Ellip
- **Is a core noticeable?** Somewhat
- **Is the core compact or almost stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some hints of "halo effect"
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

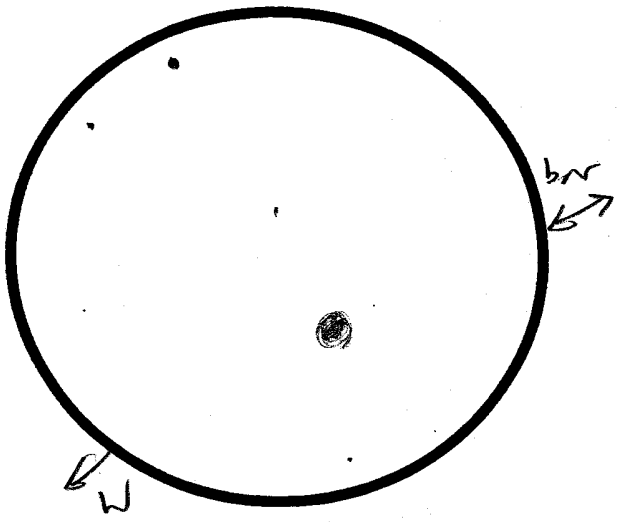
Object type: **Galaxy**

Object ID: NGC 4371

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 11:40 CDT

Location RMCE

Seeing 9 **Transparency** 5

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision (USE) required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Some hint of dark in PA
- **Are the edges of the outer envelope sharp or diffuse?** bar less so
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Bar 5
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Med-lg size

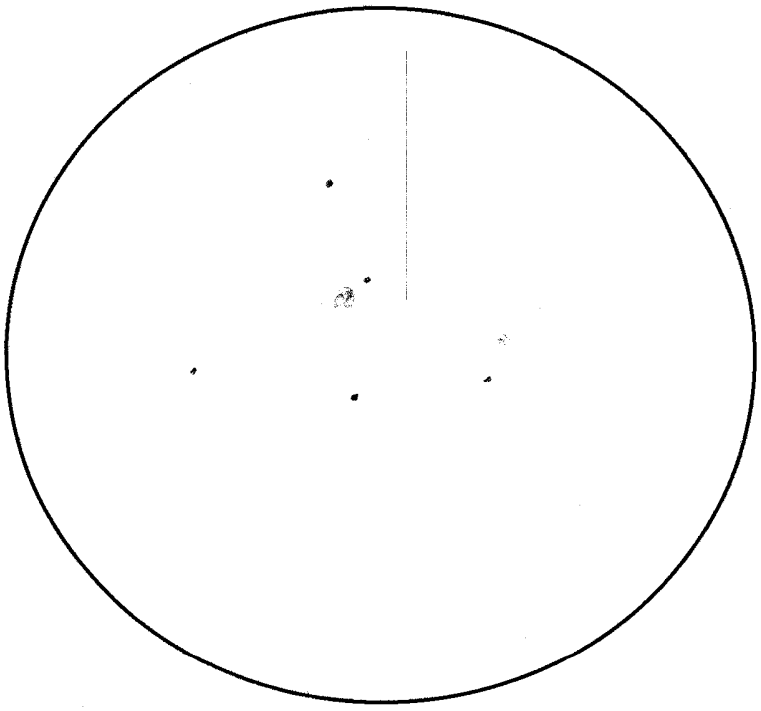
(1999 Cole & Pratt)

NGC 4394

DATE 4/20/13 **TIME** 11:15 CST ~~CDT~~ **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT M85 + NGC 4394 **LOCATION** RMCC HOME _____



M85 easily found near field star

4394 "Independently" seen - quite a nice surprise - been a while since I'd seen it

Observing Log

Object type: **Galaxy**

Object ID: NGC 4414

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/21/4

Time 12:10

Location RMCC

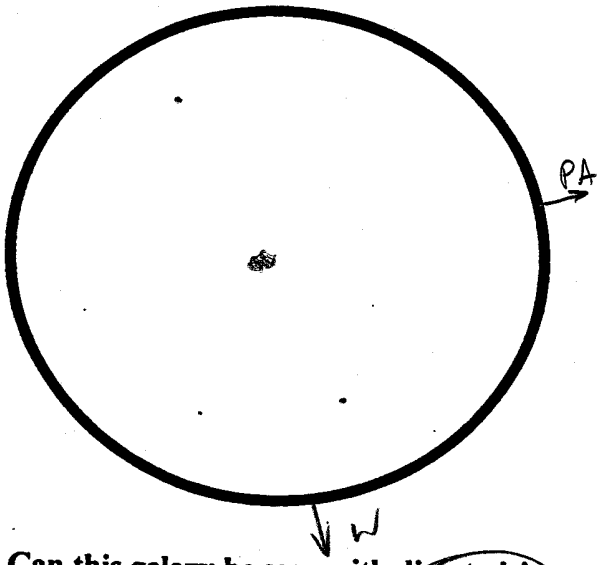
Seeing 7 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Mottly "oatmeal cookie"
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Very granular, with a "horn"
- **Are the edges of the outer envelope sharp or diffuse?** (not)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Mottly!
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

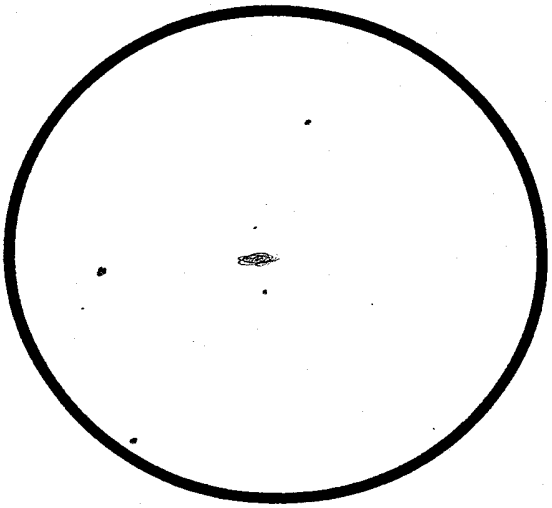
Object type: **Galaxy**

Object ID: NGC 4419

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 10:50

Location RMCC

Seeing 6+ **Transparency** 3+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description _____

(1999 Cole & Pratt)

Observing Log

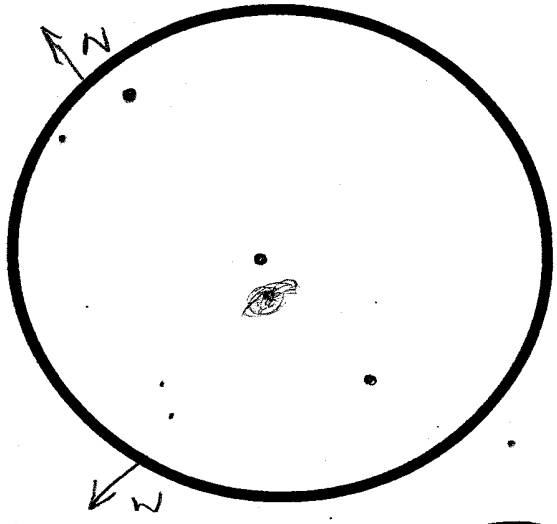
Object type: **Galaxy**

Object ID: NGC 4429

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:50 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ~~ETX~~ 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval - elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Interesting mottle & Dmag in glow - almost hint of arms
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

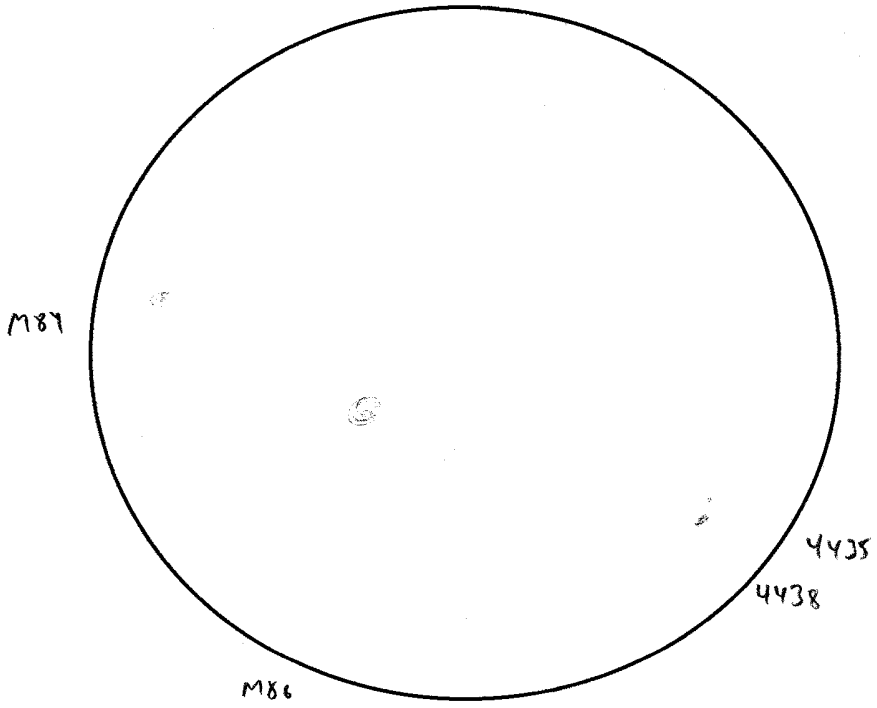
Description Obvious in 47x !

(1999 Cole & Pratt)

DATE 4/20/13 **TIME** 9:30 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 4435/4438 **LOCATION** (RMCC) HOME _____

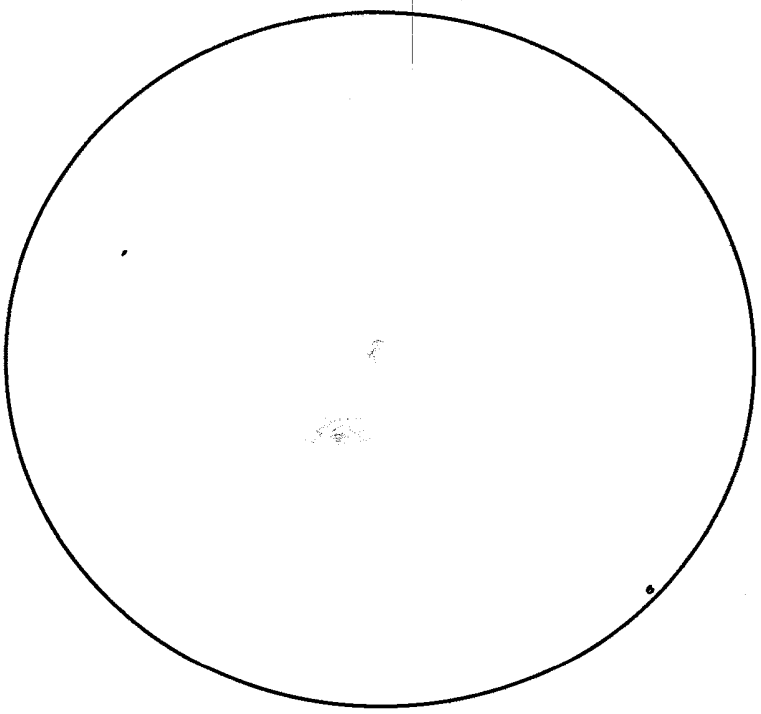


Quick sketch of 2 fields in area!

DATE 4/20/13 **TIME** 9:45 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 4435 / 4438 **LOCATION** (RMCC) HOME _____



Both easy - large oval shape. Other smaller but still easily seen. Both even glows.

Observing Log

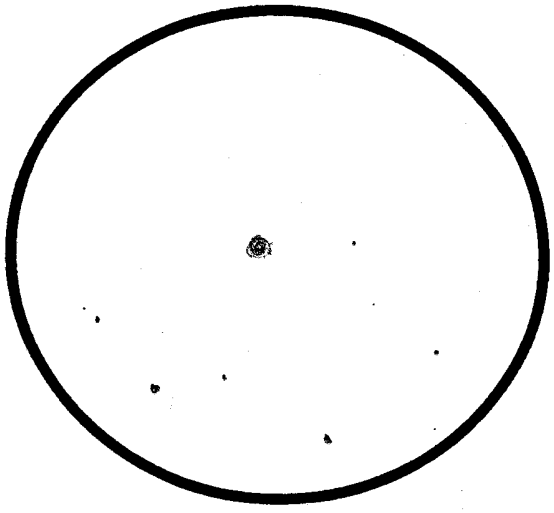
Object type: **Galaxy**

Object ID: NGC 4442

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 12:00 CDT

Location RMCC

Seeing 9 **Transparency** 5*

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elliptical-round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No-even glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description *Consider this - earthshine on moon Dat 11:50pm Noticed w/ 47x @ ~70 up!

(1999 Cole & Pratt)

Observing Log

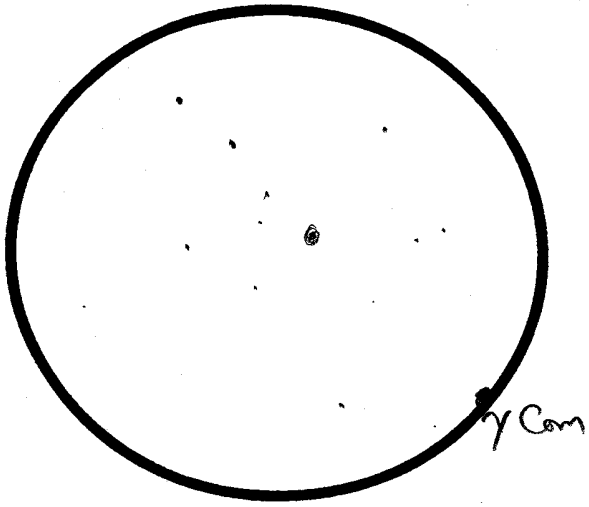
Object type: **Galaxy**

Object ID: NGC 4448

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 11:35

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47X

- **Can this galaxy be seen with direct vision, or is averted vision required?** (to really be sure)
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description SMALL! COULDN'T PUSH IT

(1999 Cole & Pratt)

Observing Log

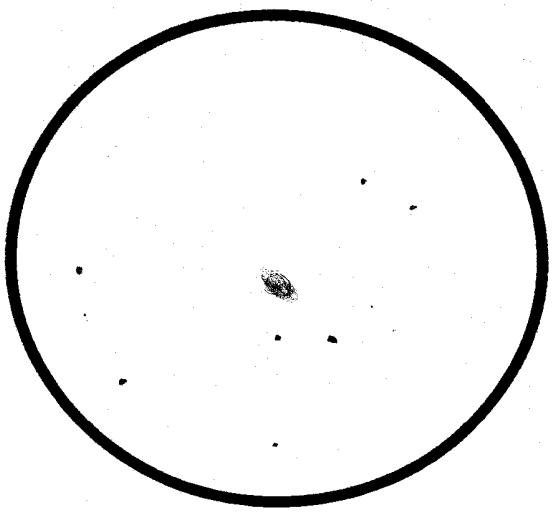
Object type: **Galaxy**

Object ID: NGC 4449

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/4

Time 10:05 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** elong oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** Glow tends to fill out w/ av
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

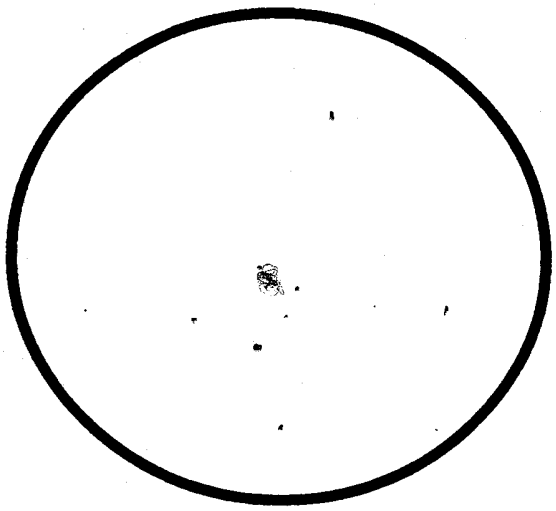
Object type: **Galaxy**

Object ID: NGC 4450

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 11:00

Location RMCC

Seeing 7 **Transparency** 4

Instrument ~~ETX~~ 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** (direct vision) (vse)
- **What is the overall shape?** Round but mottled
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Patchiness & fg star
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Very mottling patchiness
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

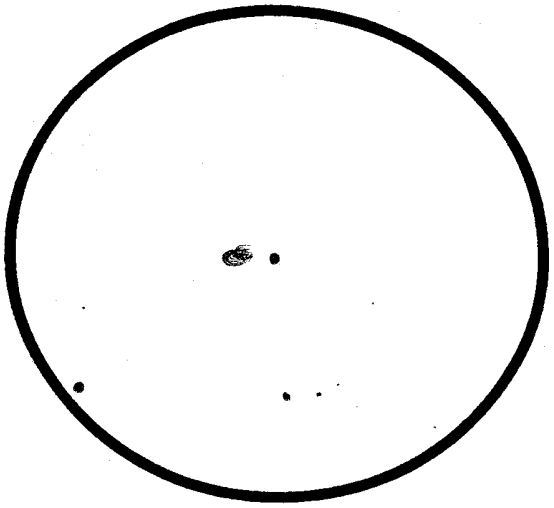
Object type: **Galaxy**

Object ID: NGC 4459

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 11:10

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Nice football
- **Is a core noticeable?** Abit
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Grey glow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

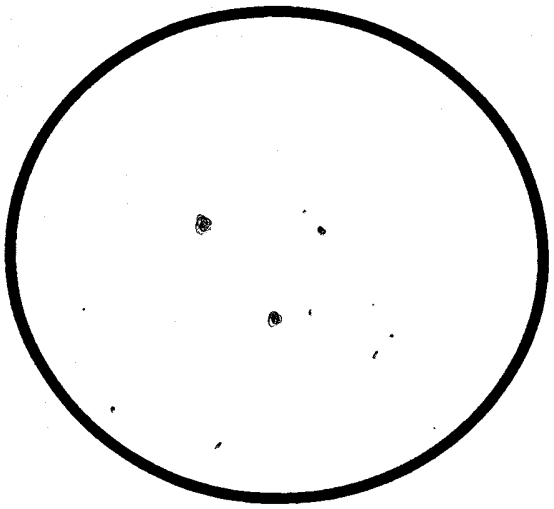
Object type: **Galaxy**

Object ID: NGC 4473/4477

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 12:20 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 47X

- **Can this galaxy be seen with (direct vision), or is averted vision required?**
- **What is the overall shape?** Oval, round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope (sharp) or diffuse?** (not)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description See individual 153x views

(1999 Cole & Pratt)

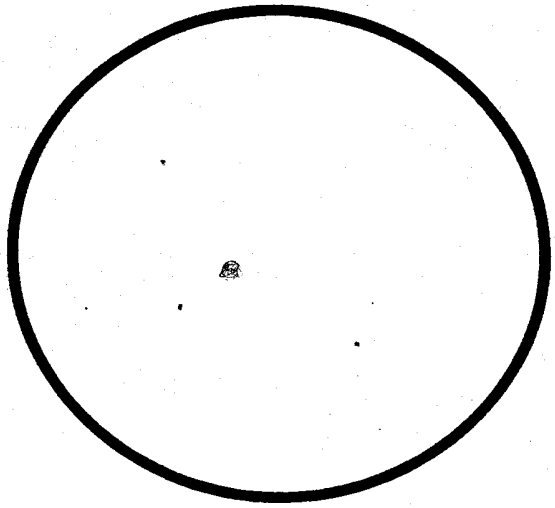
Observing Log
Object type: Galaxy

Object ID: NGC 4473

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 12:30 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 15X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hint of sl. variation in glow
- **Are the edges of the outer envelope sharp or diffuse?** mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** N
- **Are there any other deep-sky objects in the same field of view? If so, what?**

Description One on "left" or N main pair w/ NGC 4477

(1999 Cole & Pratt)

Observing Log

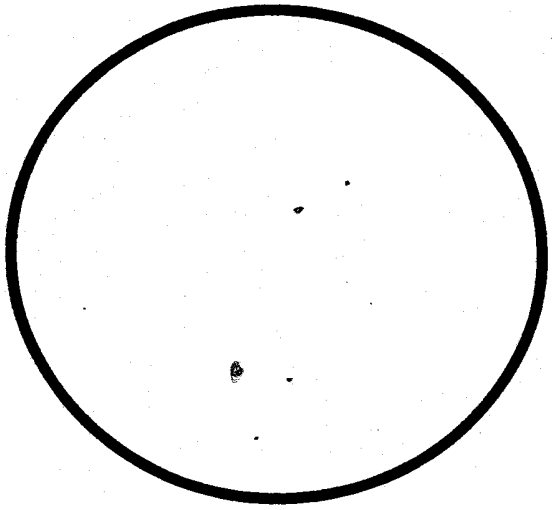
Object type: **Galaxy**

Object ID: NGC 4477

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 12:25 ODT

Location RMCC

Seeing 9 **Transparency** 5

Instrument BTX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 1031

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** small, round
- **Is a core noticeable?** Yes, a bit
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 4473 nearby in lower power

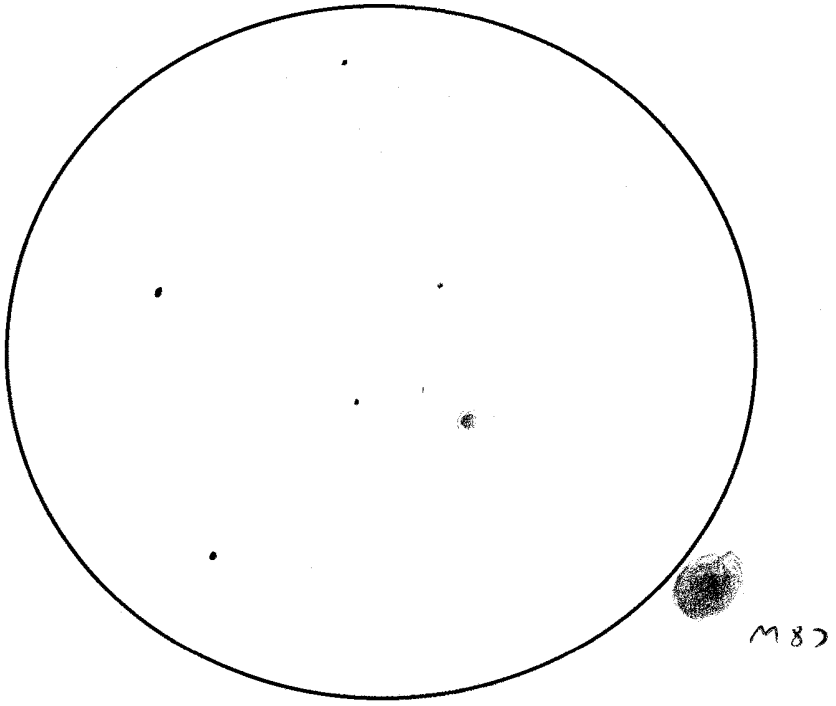
Description _____

(1999 Cole & Pratt)

DATE 4/29/3 **TIME** 9:35 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 4478 **LOCATION** RMCC HOME _____



Best to keep bright M87 out of field
(how cool is that?) & see NGC 4478 by itself

Observing Log

Object type: **Galaxy**

Object ID: NGC 4485/4490

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/21/4

Time 2:00

Location RMCE

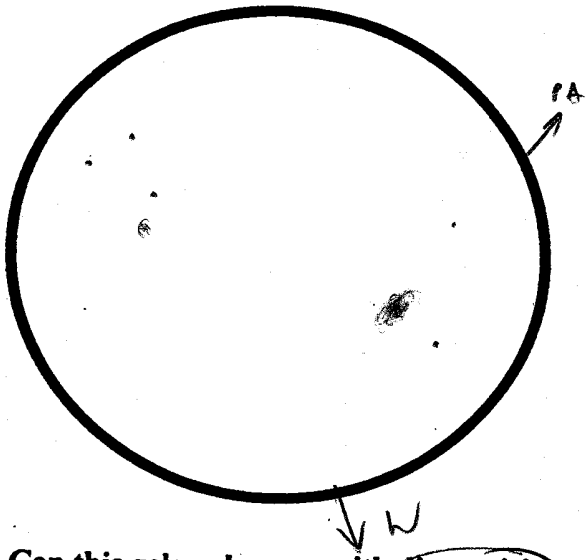
Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 4490 elong fat streak 4485 elliptical (round)
- **Is a core noticeable?** 4490 yes 4485 barely
- **Is the core compact or stellar?** (4490) (4485)
- **Can any detail be seen between the core and the outer envelope of the object?** 4490 hints of "arms" but very close to even glow
- **Are the edges of the outer envelope sharp or diffuse?** (4490) (4485)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** 4490 ↗
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description _____

(1999 Cole & Pratt)

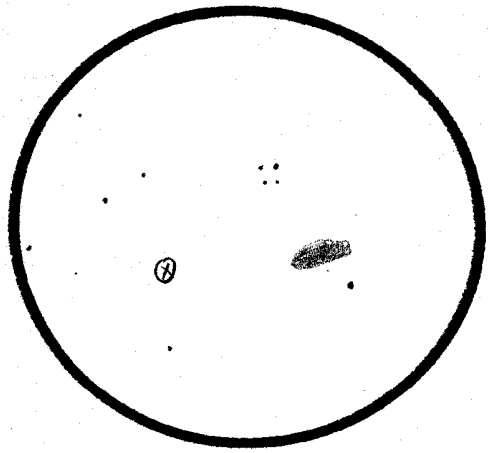
Observing Log
Object type: Galaxy

Object ID: NGC 4490

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/19/13

Time 8:45 CDT

Location AMCE

Seeing 8 **Transparency** 6

Instrument RFR 125

Size 125mm

Eyepiece _____

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** football
- **Is a core noticeable?** no
- **Is the core compact or stellar?** n/a
- **Can any detail be seen between the core and the outer envelope of the object?** no
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** no
- **Are there any other deep-sky objects in the same field of view? If so, what?** NGC 4485 Perhaps glimpsed w/av at ⊗

Description So Low! but still excellent!

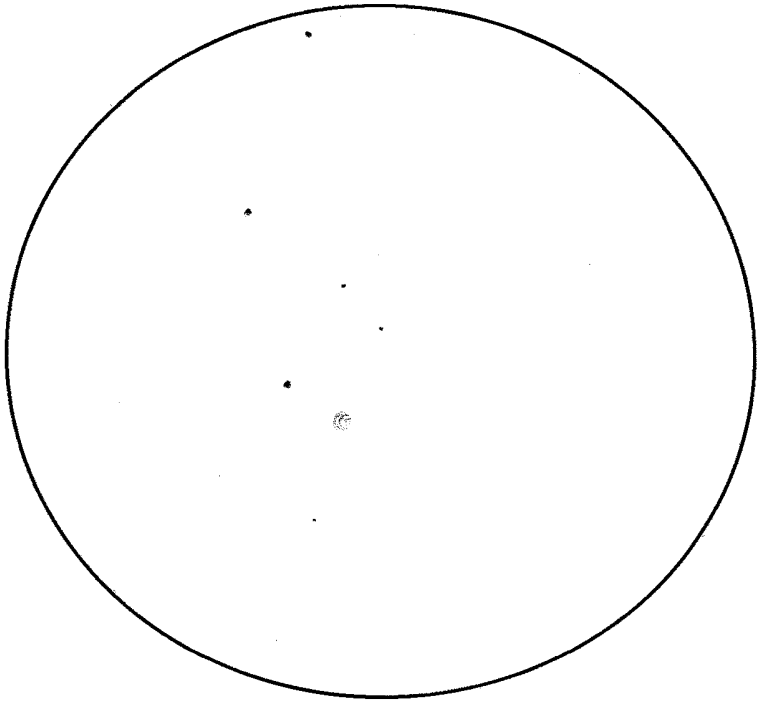
(1999 Cole & Preuß)

MSRAL 2

DATE 6/21/13 **TIME** 10:40 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 4494 **LOCATION** (RMCO) HOME _____



Not part of "list" but seen on way to NGC 4565

I still say sky is a III transparency, but it

is clearing up, especially higher in sky

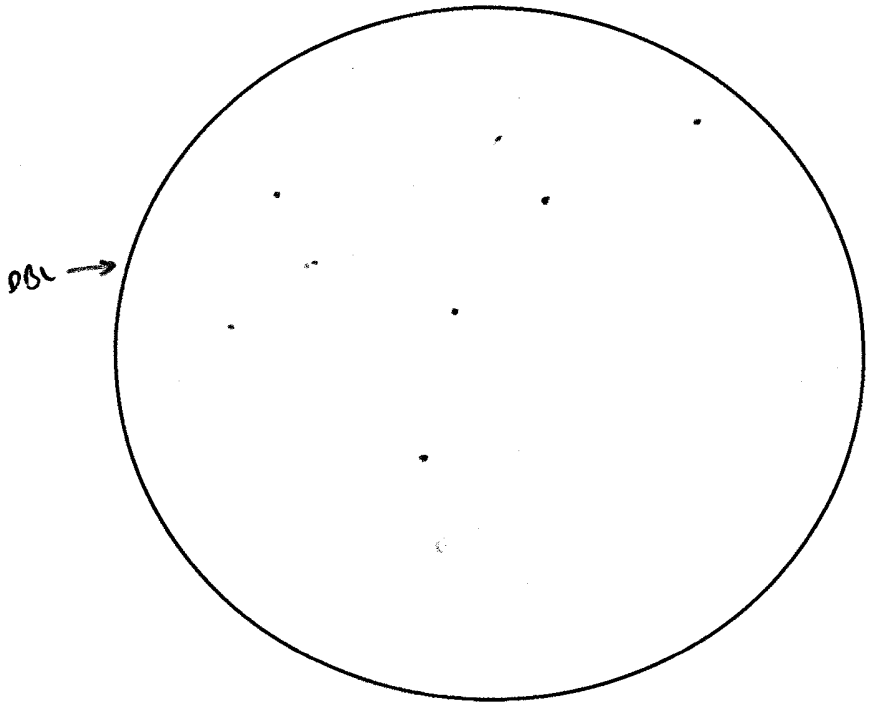
Soft round glow near ~10 mag, easily seen

5/30

DATE 5/3/3 **TIME** 12:05 CST (DST) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 4494 **LOCATION** ~~RMCC~~ HOME _____



Small & dim but seen w/ direct vision

Observing Log

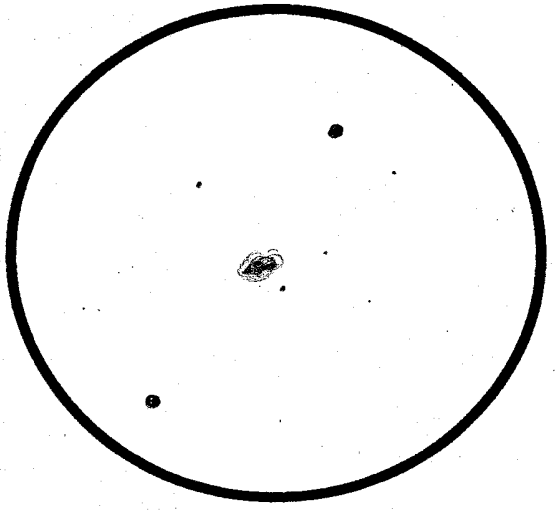
Object type: **Galaxy**

Object ID: NGC 4526

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/14

Time 11:00 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes, apparent "bar" glow or halo
- **Are the edges of the outer envelope sharp or diffuse?** bar, some graininess & mottle as known
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

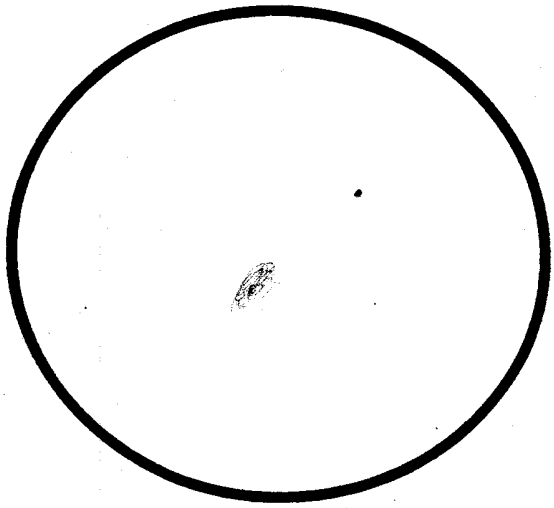
Object type: **Galaxy**

Object ID: NGC 4527

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 11:00 CDT

Location RMCC

Seeing 8 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Long! Hadn't noticed on shared 73x field (shared w/4536)
- **Is a core noticeable?** Not too much
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** (fairly)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Just the slightest mottle
- **Are there any other deep-sky objects in the same field of view? If so, what?** Not @ 153x

Description 153x really brings it out – elongation shows

(1999 Cole & Pratt)

Observing Log

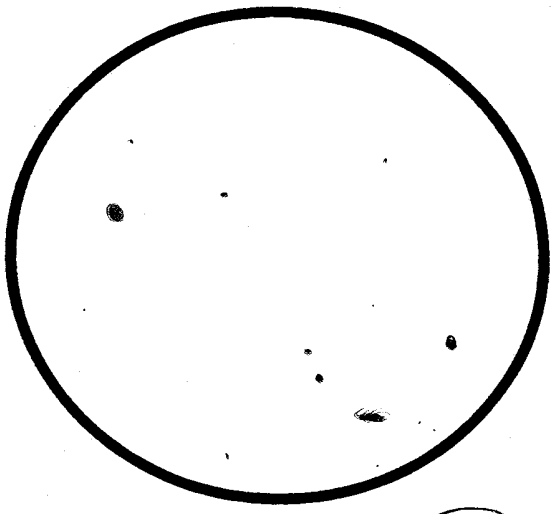
Object type: **Galaxy**

Object ID: NGC 4527 / 4536

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:55 CDT

Location RMCe

Seeing 8 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?** (4527) (4536 to be sure)
- **What is the overall shape?** See each & above (esp. 4527 @ 153x)
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** (fairly) for both — no "halos"
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

Description _____

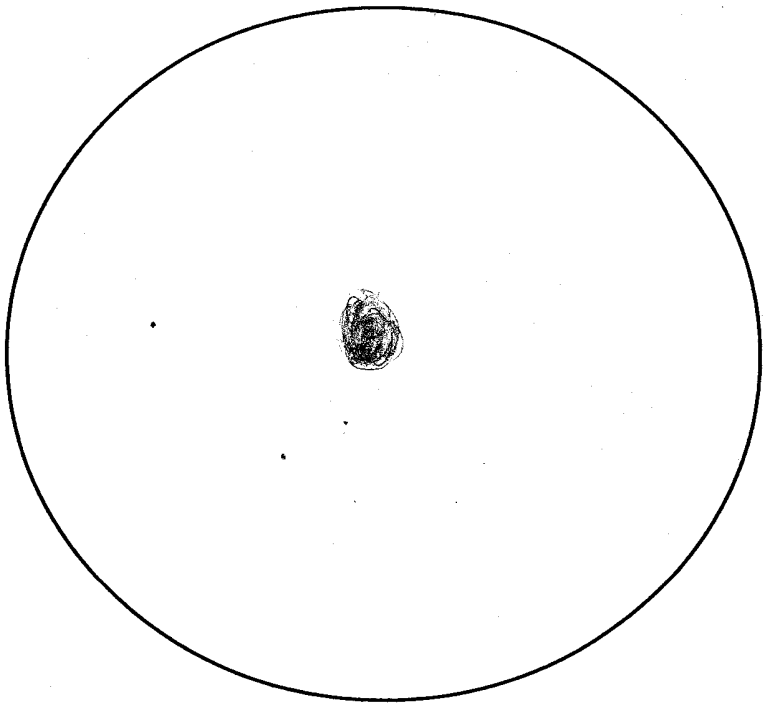
(1999 Cole & Pratt)

DATE 6/23/4 TIME 1105 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4535 FILTER (NO) NB WB OIII ___

OBS. PROGRAM HI LOCATION (RMCC) HOME _____



Elusive but seen – oval amorphous glow
AV brings it out better – I don't see any
nucleus.

Observing Log

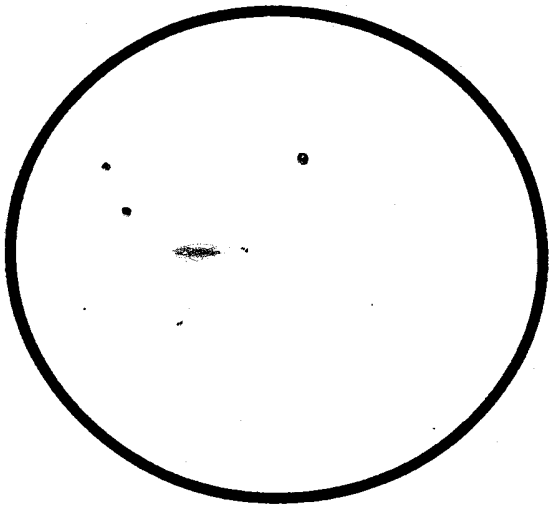
Object type: **Galaxy**

Object ID: NGC 4536

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:50 CDT

Location RMCC

Seeing 8 **Transparency** 2+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?** (fifty / use)
- **What is the overall shape?** Needle
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** (fairly)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No — too nebulous to mottle
- **Are there any other deep-sky objects in the same field of view? If so, what?** Almost get NGC4527 see ~~FOV~~ view next w/it @ edge of field (73x)

Description For some reason — not seen in 153x but visible w/AV in 73x & 47x ! strange one

Oh, looking @ listing now — no way I saw 6.9' x 2.6'

I'd estimate 2 or 3' long, < 1' wide

Mag >11 but can't be sure due to nearly poor transparency conditions tonight.

(1999 Cole & Pratt)

Observing Log

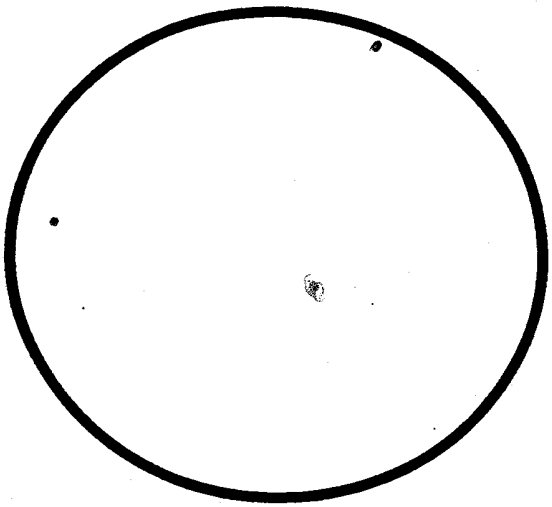
Object type: **Galaxy**

Object ID: NGC 4546

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 11:10 CDT

Location RMCC

Seeing 8 **Transparency** 2

Instrument ETX 125

Size ~~12.4~~ 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** Ave
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** Slightly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No—just fades away w/halo
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Note: by 12:15 am raining on TV's a

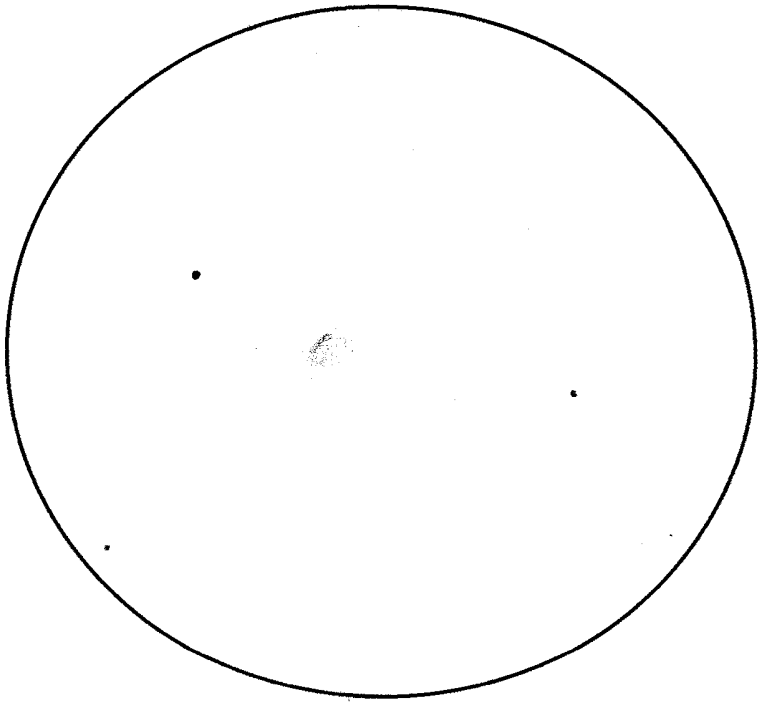
(1999 Cole & Pratt)

NGC
4548

DATE 4/20/3 **TIME** 10:30 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ~~ETX-125~~ 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M91 **LOCATION** (RMCC) HOME _____



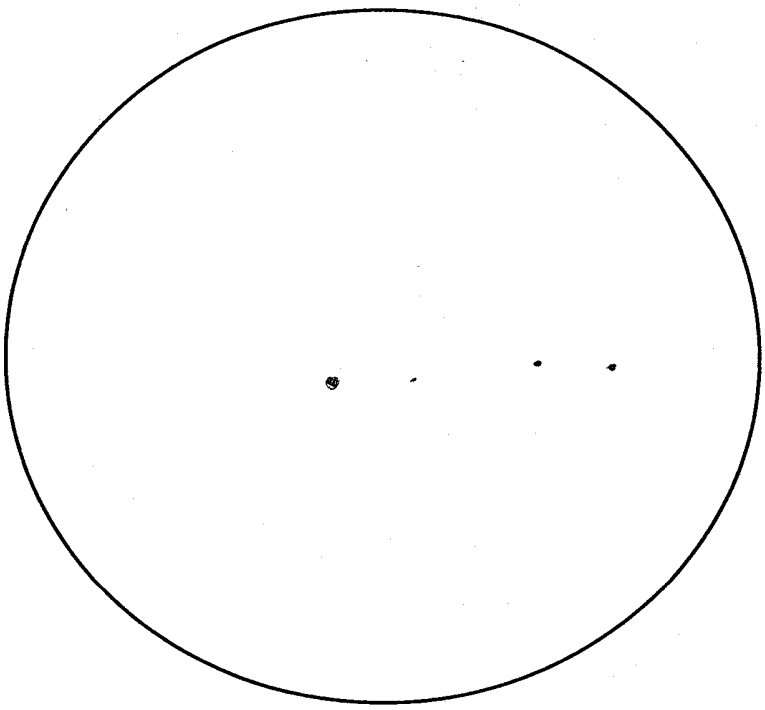
Very hard but seen - slight "hump" to glow

DATE 6/23/4 TIME 1:25 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4590 FILTER (NO) NB WB OIII ___

OBS. PROGRAM A I LOCATION (RMCC) HOME ___



Seen w/AV to confirm — very small — all nuclear — almost stellar — no halo to speak of

"Hopped" thru M90 M89 on way!

Observing Log

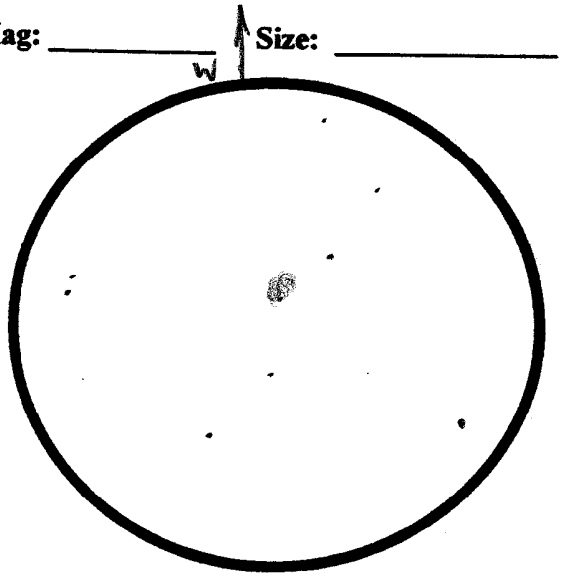
Object type: **Galaxy**

Object ID: NGC 4559

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 3/11/4

Time 10:50 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round – av makes it "grow" a bit to oval in 300x, PA ↑
- **Is a core noticeable?** Star – not core
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No even glow
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

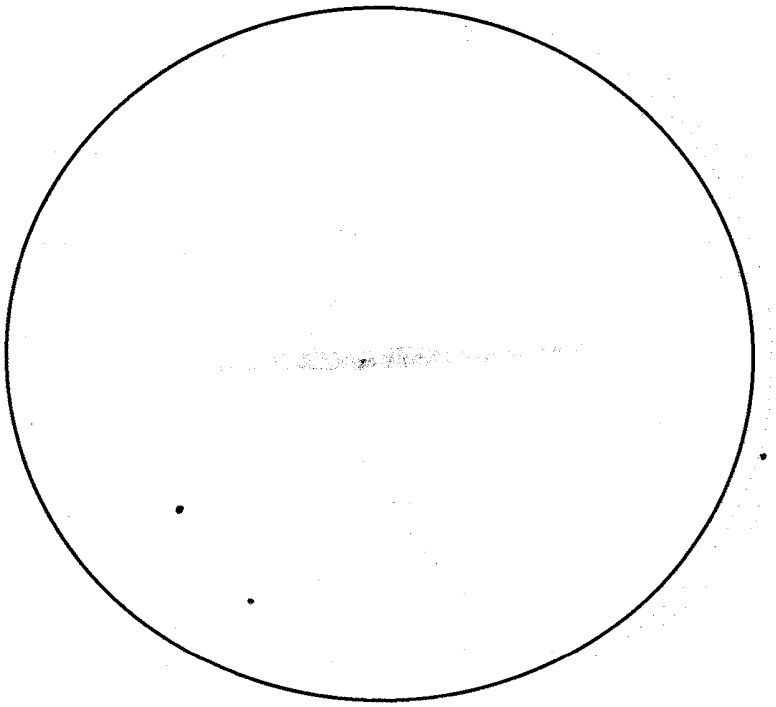
Description Certain I saw it as shown – don't understand why it is listed as "extremely elongated" in H400 book

(1999 Cole & Pratt)

DATE 6/27/13 **TIME** 10:26 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 4565 **LOCATION** RMCC HOME _____



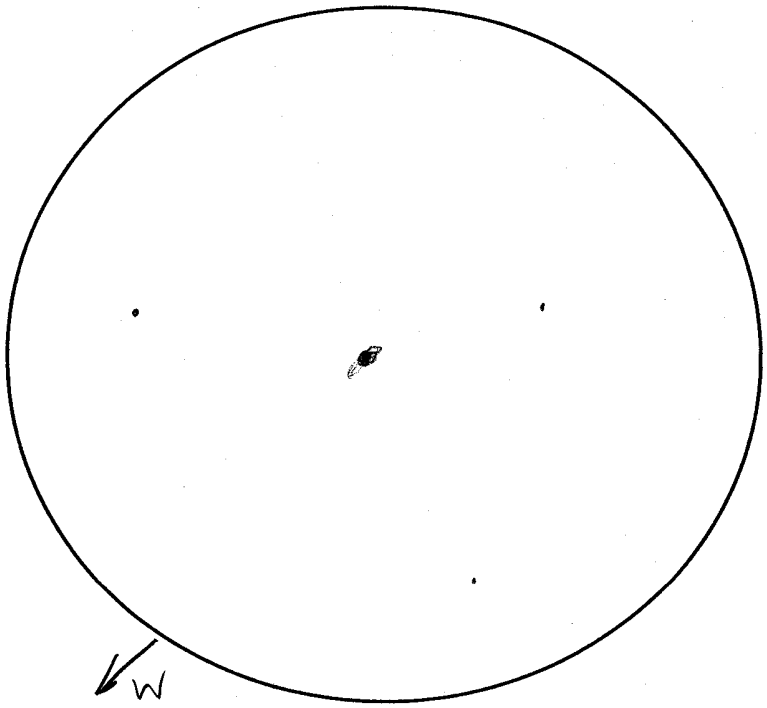
Much better, traced out to 1/3-1/2 apparent field (153x) - med. power helps darker & contrast.

DATE 6/23/4 TIME 11:15 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT ~~ETX-125~~ 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4570 FILTER (NO) NB WB OIII ___

OBS. PROGRAM H I LOCATION (RMCC) HOME ___



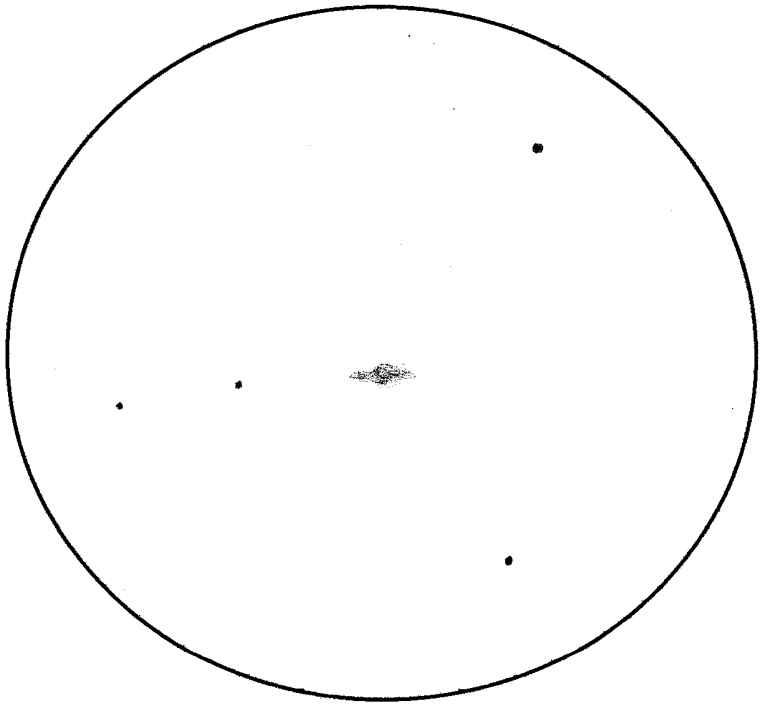
Along of "normal" elliptical w/severe AV as shown — Core compact with some halo

NGC 4594

DATE 4/26/3 **TIME** 11:15 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (LX-12S) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT M104 **LOCATION** RMCC HOME _____



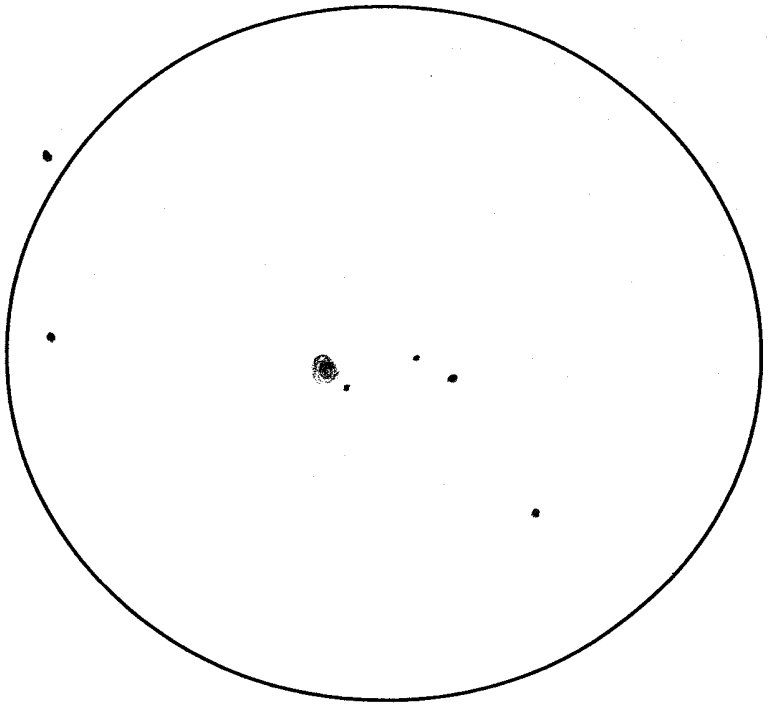
Very "sombrero" like - northern side much more detailed - like a tiny version of the famous pictures.

DATE 6/23/4 TIME 1129 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4596 FILTER (NO) NB WB OIII ___

OBS. PROGRAM _____ LOCATION (RMCC) HOME _____



What a treat to grab to it! Just a bit oval, compact subtle core, some diffuse halo to it

Observing Log

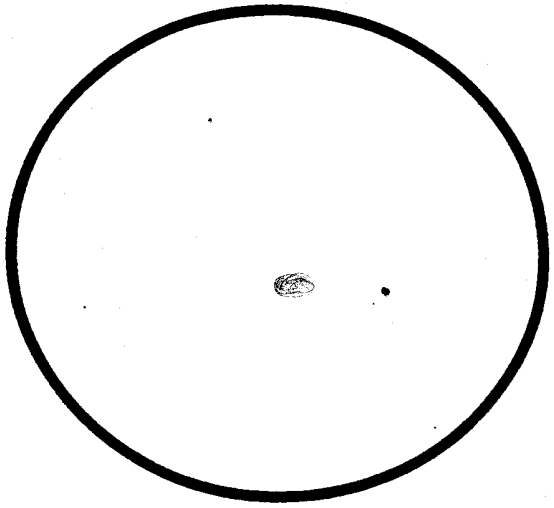
Object type: **Galaxy**

Object ID: NGC 4618

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 2:10

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Evenly dimmy glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Faint!

(1999 Cole & Pratt)

Observing Log

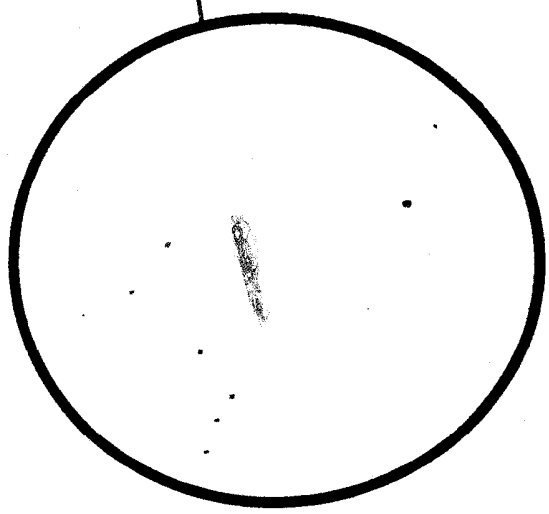
Object type: Galaxy

Object ID: NGC 4631 / 4627(?)

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ W **Size:** _____



Observer BY

Date 3/11/4

Time 10:40 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?** hint of 4627
- **What is the overall shape?** Very elong & straight w/bump on NW side (4627?)
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** each other

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

OBSERVATION: 3/13-14/96 cont

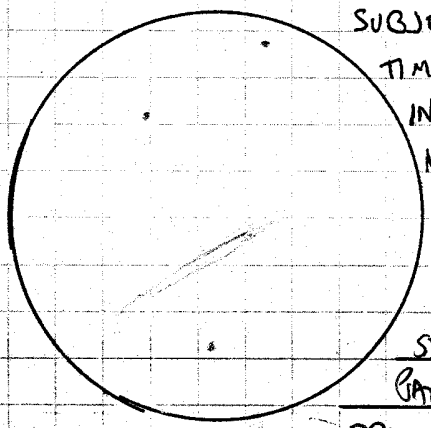
GENERAL NOTES: TIME: CST CDT

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:

DATE:

LOCATION:



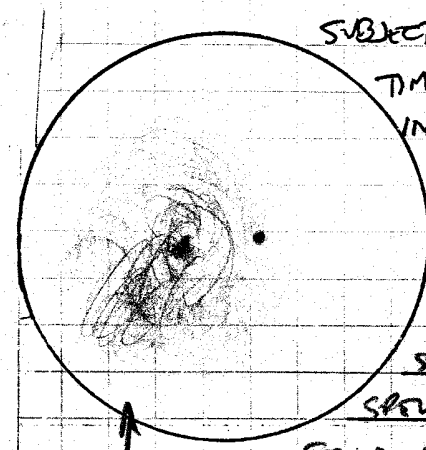
SUBJECT: NGC 4631

TIME: 2:00 CST CDT

INSTRUMENT: 4.5"

NOTES: NO OTHER D.S. TONIGHT, TOO CLOUDISH 90X BARELY SHOWS BRIGHTEST PART OF GREAT EDGE-ON!

NGC 4631



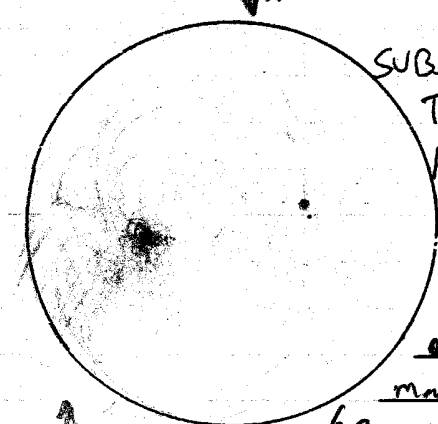
COMET

SUBJECT: HYAKUTAKE 2

TIME: 2:05 CST CDT

INSTRUMENT: 4.5"

NOTES: 90X WOW AS W/ NEBT 3, CURIOUS FAN SHAPED AREA SPEWING TO NW FROM NUCLEUS



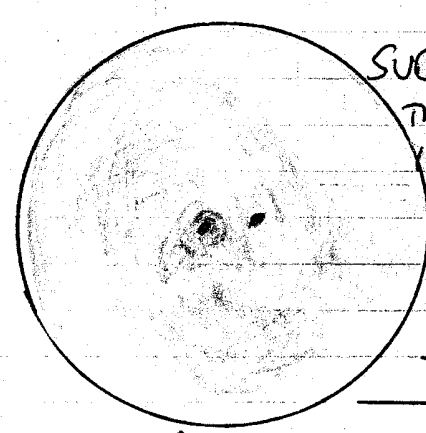
N

SUBJECT: COMET H2

TIME: 2:10 CST CDT

INSTRUMENT: 4.5"

NOTES: 220X WOW! ALSO, 9m dbl (plot on Urano 288) may be as shown (~9.5 - 10.5 or 11, 10", 10-20°)



SUBJECT: COMET H2

TIME: 2:15 CST CDT

INSTRUMENT: 4.5"

NOTES: 45X WOW

Observing Log

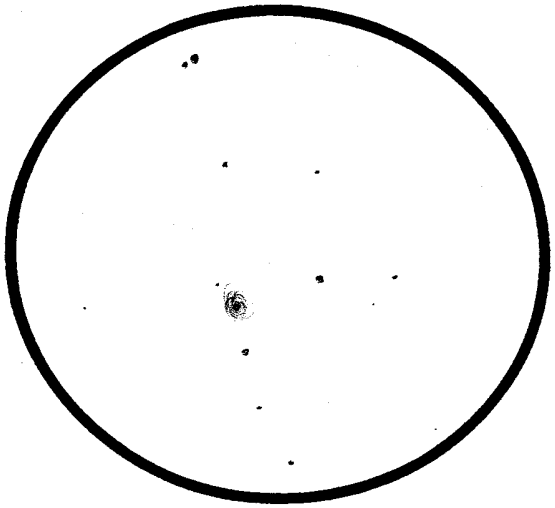
Object type: **Galaxy**

Object ID: NGC 4636

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:35 CDT

Location RMCE

Seeing 8 **Transparency** 2+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** Use averted
- **What is the overall shape?** Oval - nearly round
- **Is a core noticeable?** Barely at low power
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No - even
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description What a field! Strides out immediately even in fairly-poor conditions like tonight

(1999 Cole & Pratt)

Observing Log

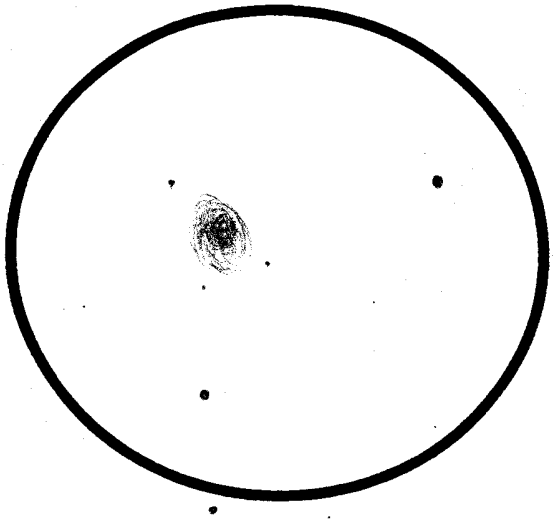
Object type: **Galaxy**

Object ID: NGC 4636

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:30 CDT

Location RMCC

Seeing 8 **Transparency** 2+

Instrument ETX 125

Size 125

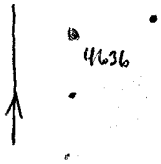
Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** but use to bring it out
- **What is the overall shape?** Slightly oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No - even glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** ~~Very nearby~~ No - that's 4536 see it

Description 47x view amazing 22:32:35 9m sat N w/excellent field thru field @ 153x! slew !!!

(1999 Cole & Pratt)



Observing Log

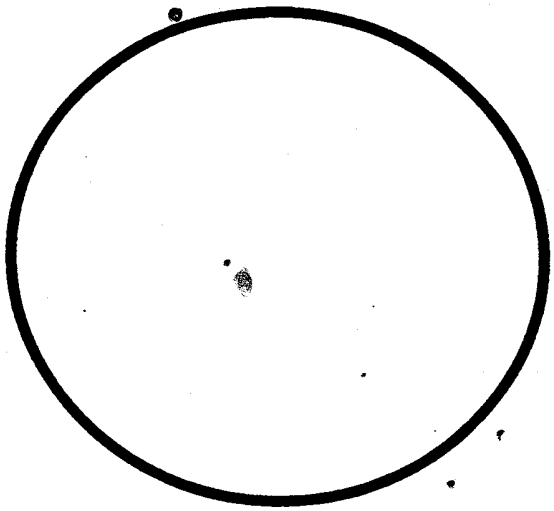
Object type: **Galaxy**

Object ID: NGC 4643

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:45 CDT

Location RMCC

Seeing 8 **Transparency** 3-

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** "All" Core
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Not much envelope
- **Are the edges of the outer envelope sharp or diffuse?** very even
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Also noted w/ 47x

Weird. Can't see its very faint "halo" and the fs

At the same time! ← almost like the

"Blinking Planetary" effect

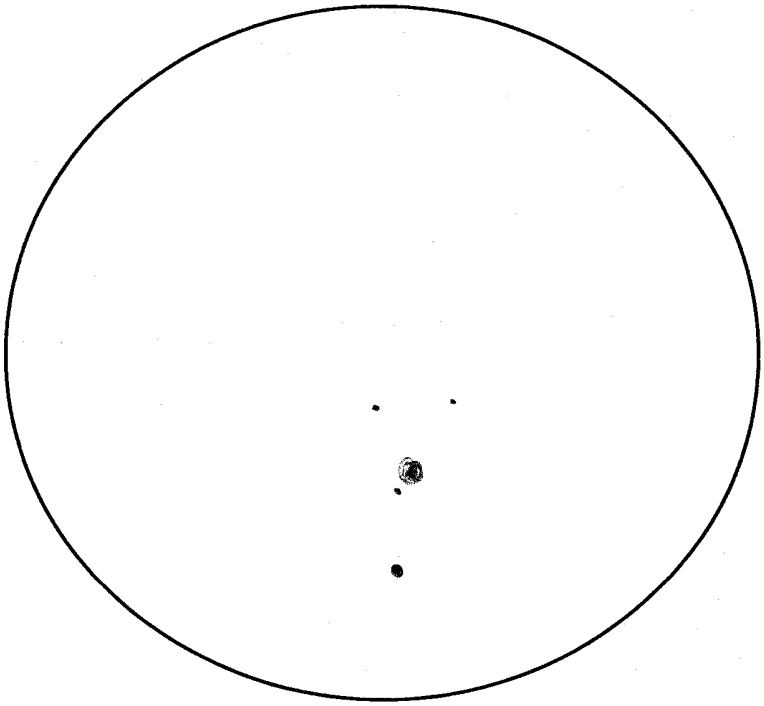
(1999 Cole & Pratt)

DATE 6/23/4 TIME 1:50 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4654 FILTER (NO) NB WB OIII ___

OBS. PROGRAM H I LOCATION (RMCC) HOME ___



Amazing field – star like w/ cool oval halo at AV. – diffuse out to black & even

Observing Log

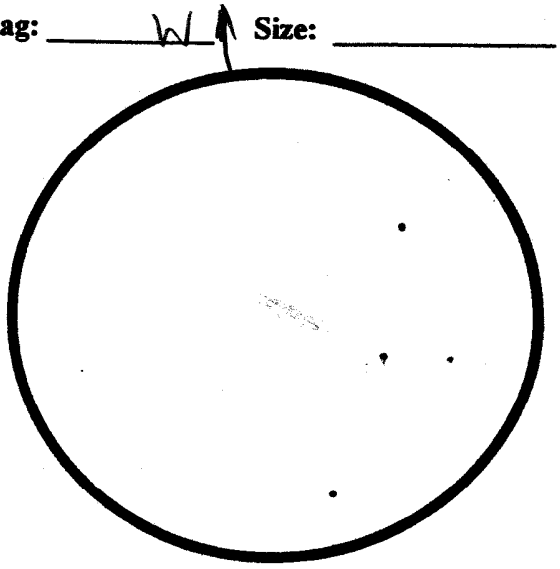
Object type: **Galaxy**

Object ID: NGC 4656

Const.: CVn

RA: _____ **Dec.:** _____

Mag: 11 **Size:** _____



Observer BY

Date 3/1/4

Time 10:45 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Very elong
- **Is a core noticeable?** No
- **Is the core compact or stellar?** No
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** 4631 nearby to NW

Description Edge of vision

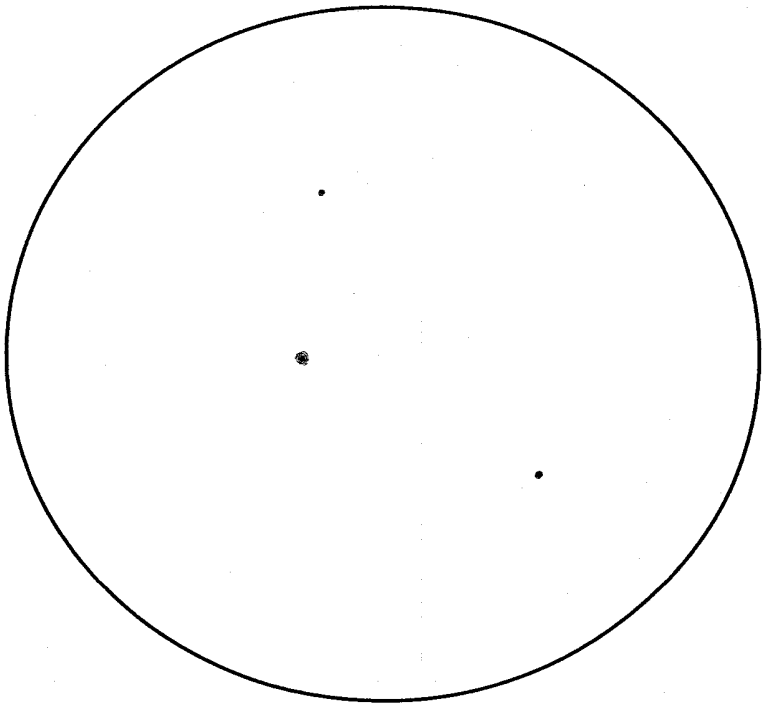
(1999 Cole & Pratt)

DATE 6/23/4 **TIME** 1145 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10 47 73 (153) 316 475

OBJECT NGC 4660 **FILTER** (NO) NB WB OIII ___

OBS. PROGRAM H I **LOCATION** (RMCC) HOME _____



Just seen w/direct vision — AV brings out some diffuse halo very small star like ellip. M59/60 seen 47x while here!

Observing Log

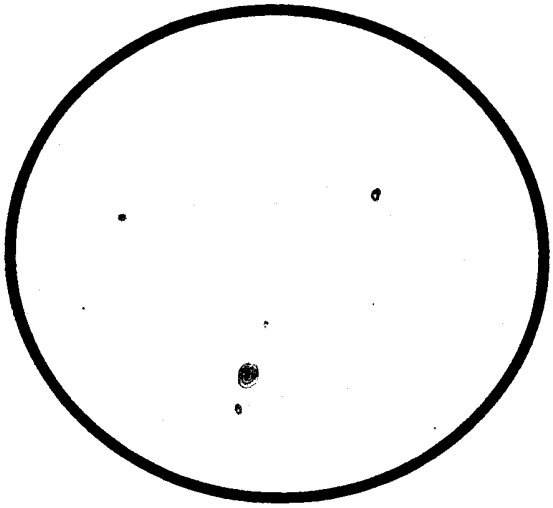
Object type: **Galaxy**

Object ID: NGC 4665

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:35 CDT

Location RMCC

Seeing 8 **Transparency** 2+

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nice little even round glow in an excellent field to identify it - No hint of bar

(1999 Cole & Pratt)

Observing Log

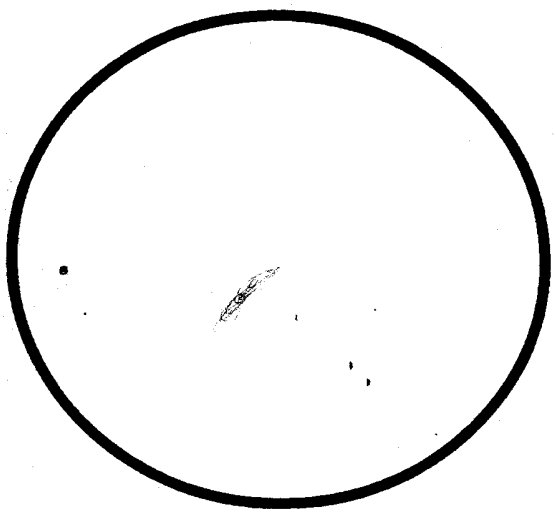
Object type: **Galaxy**

Object ID: NGC 4666

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/12/4

Time 10:15 CDT

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?** USE
- **What is the overall shape?** Elong
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some along "arms"
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Interesting how AV brings out elong.

(1999 Cole & Pratt)

Observing Log

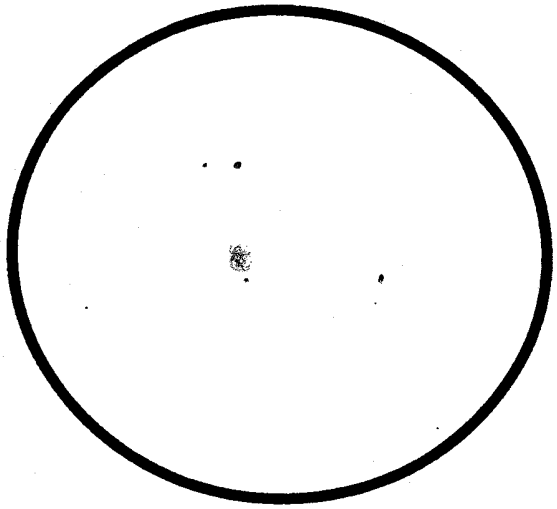
Object type: **Galaxy**

Object ID: NGC 4689

Const.: Com

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/20/4

Time 11:30

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No.
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Brighter
- **Are the edges of the outer envelope sharp or diffuse?** Diffuse
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

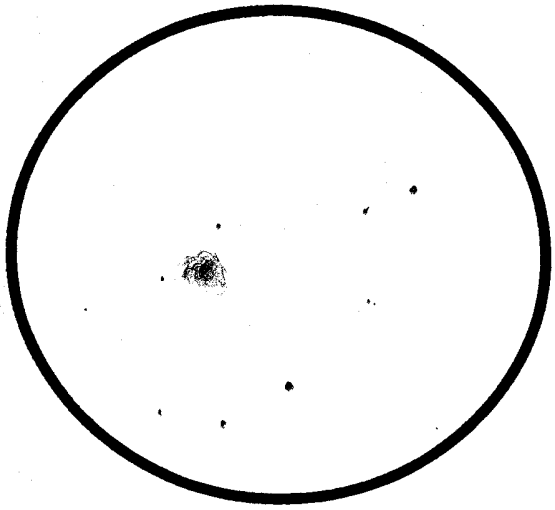
Object type: **Galaxy**

Object ID: NGC 4697

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 11:10 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Yes - uneven patchiness in large glow
- **Are the edges of the outer envelope sharp or diffuse?** med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very obvious even in 47x in an excellent field ("bowl" of 9-10m stars)!

(1999 Cole & Pratt)

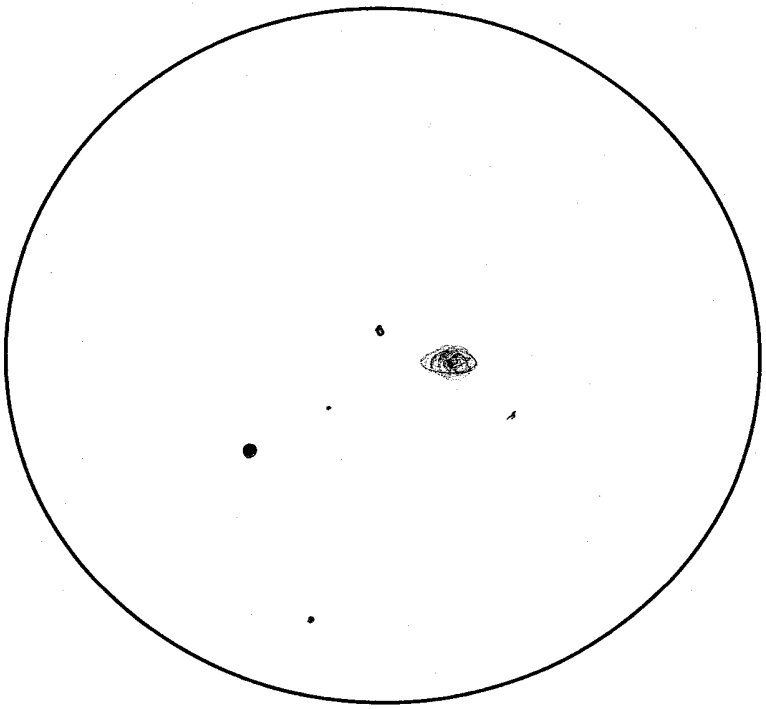
11:00:35 Iridium flare ~0 mag ~<10° up due W !! seen w/ KC

DATE 6/23/4 TIME 1:35 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT ~~ETX-125~~ 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4698 FILTER (NO) NB WB OIII ___

OBS. PROGRAM # I LOCATION (RMCC) HOME _____



Perfect field! Sl. elong, star-like nucleus in even oval glow, sl. diffuse at edges

Observing Log

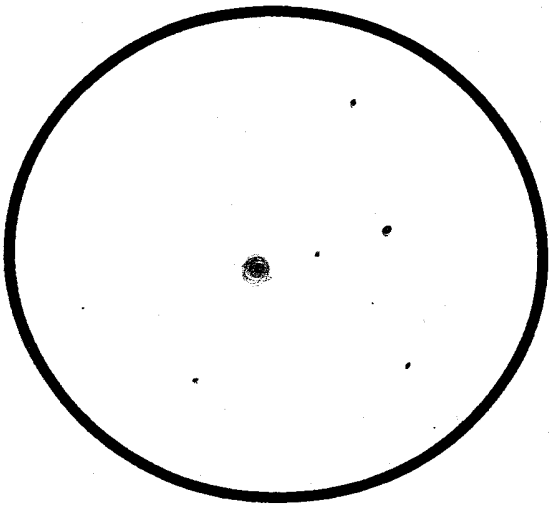
Object type: **Galaxy**

Object ID: NGC 4699

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 10:55 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument BT X 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?**
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some hints but mostly even
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

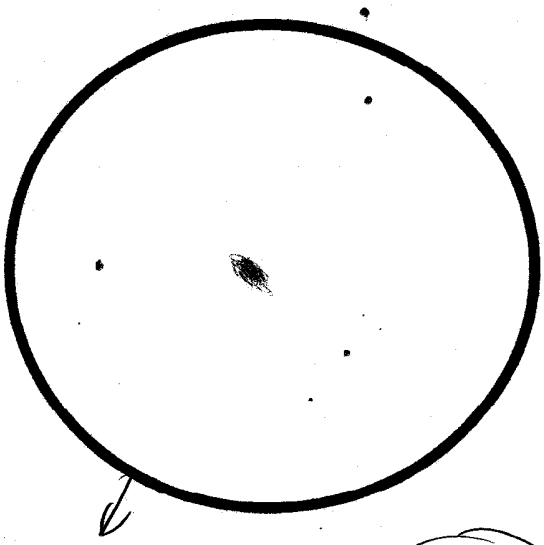
Object type: **Galaxy**

Object ID: NGC 4725

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:20 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 2X1 ratio elongated
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Hints of mottle but fairly even
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

BRAD YOUNG

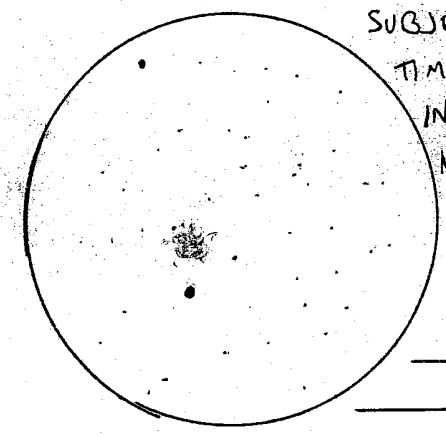
TULSA, OKLAHOMA

OBSERVATION RECORD

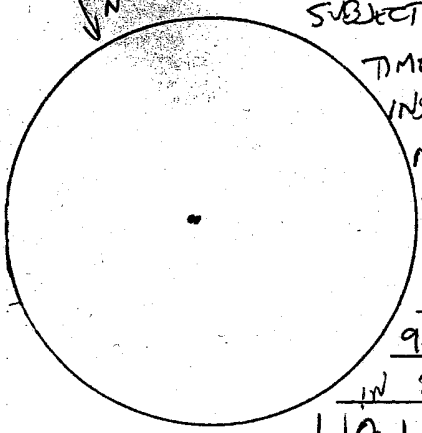
NGC 4753

OBSERVATION:
GENERAL NOTES: 2/18/96 AM TIME: 1:15- CST CDT
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

SEEING: CLARITY:
DATE:
LOCATION:

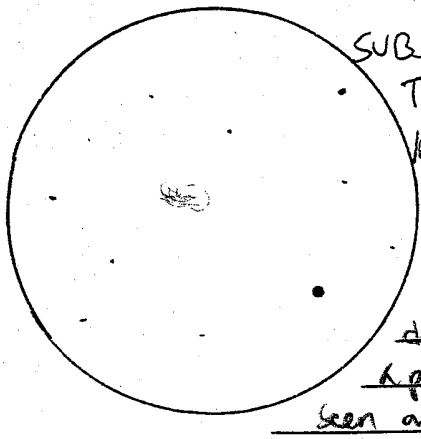


SUBJECT: NGC 2355
TIME: 1:15 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Not impressive, glow + 5 or 6 resolved, 11m →

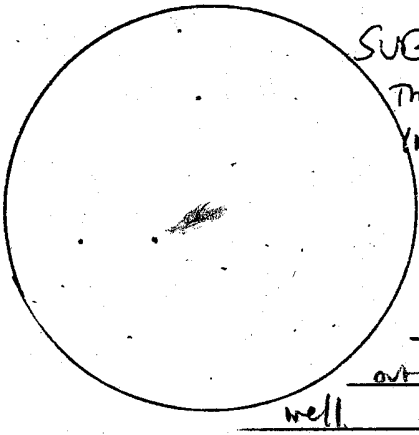


N

SUBJECT: AD 98800
TIME: 1:45 CST CDT
INSTRUMENT: 4.5"
NOTES: 220X
TOOK 40 MIN. TO GET IT, BUT I SPLIT 9.5 STAR IN 2/96 ASS. p 40! WOW what an effort! But split 'em PA ~ 40-50°, sep <1" (hairs breadth gap between longer blobosity, but always a double! COOL!



SUBJECT: NGC 4753
TIME: 2:15 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Dim featureless glow to me, just not even a prayer, but have seen another galaxy



SUBJECT: M104
TIME: 2:20 CST CDT
INSTRUMENT: 4.5"
NOTES: 45X
Nice view from city, REAR brings out "hat" fairly well

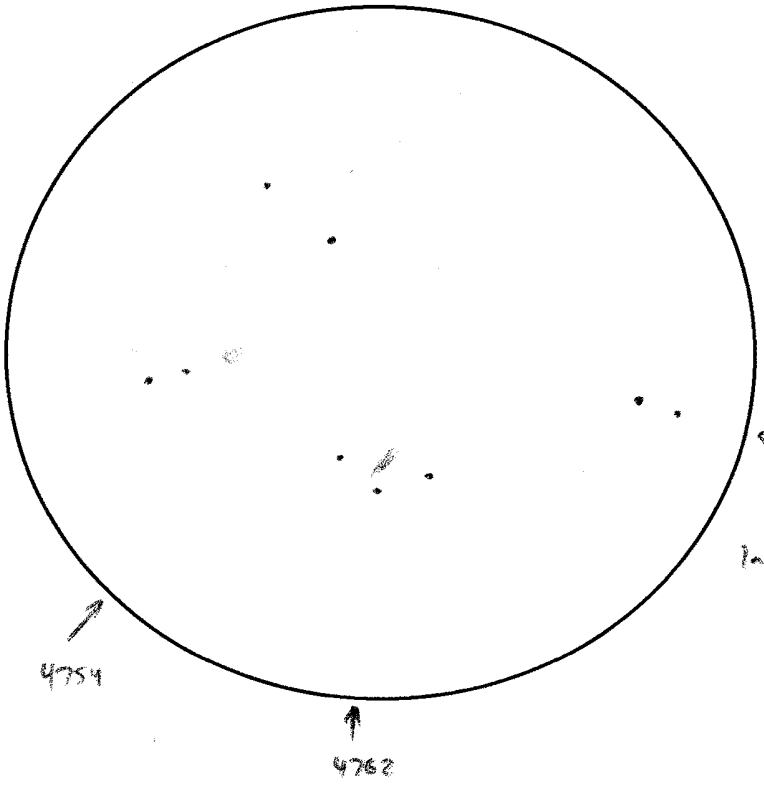
N ↓ DBLS on WAY to ↑ (45X)

5/30

DATE 5/30/3 **TIME** 9:50 CST (CDT) **CLARITY** I (II) III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 4754 + 4762 **LOCATION** (RMCC) HOME _____



← other pt 1b1 from last field

AMAZING! BOTH SEEN, BOTH 12 mag, SHAPED EXACTLY AS LISTED BY BURNHAM!

Observing Log

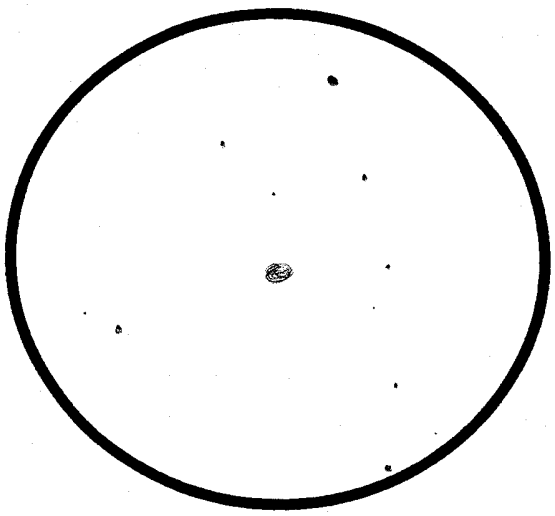
Object type: **Galaxy**

Object ID: NGC 4781

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 10:40 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Barely
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Mottled even mag arm knots
- **Are the edges of the outer envelope sharp or diffuse?** (not)
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** ↑
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Non-elliptical

(1999 Cole & Pratt)

Observing Log

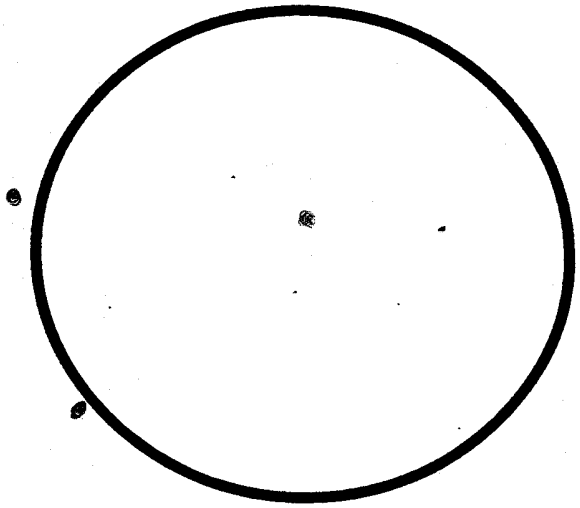
Object type: Galaxy

Object ID: NGC 4800

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 2:20

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** use to bring out
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No - even glow
- **Are the edges of the outer envelope sharp or diffuse?** mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

2:18 meteor Dra → Neyg

Description Nice f.s. to locate

"cradle" green Imag

(1999 Cole & Pratt)

Observing Log

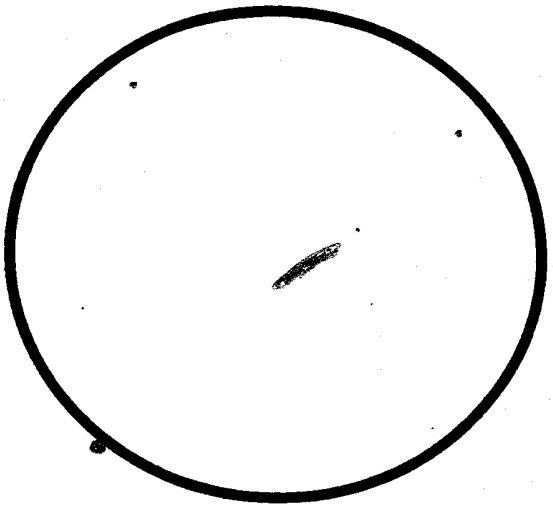
Object type: **Galaxy**

Object ID: NGC 4845

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 1010 CDT

Location RMCC

Seeing 8 **Transparency** 2+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Very elongated - almost a "needle"
- **Is a core noticeable?** No.
- **Is the core compact or stellar?** No.
- **Can any detail be seen between the core and the outer envelope of the object?** No.
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No.
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Also seen (a little better) 47X (meaning a little brighter)

(1999 Cole & Pratt)

Observing Log

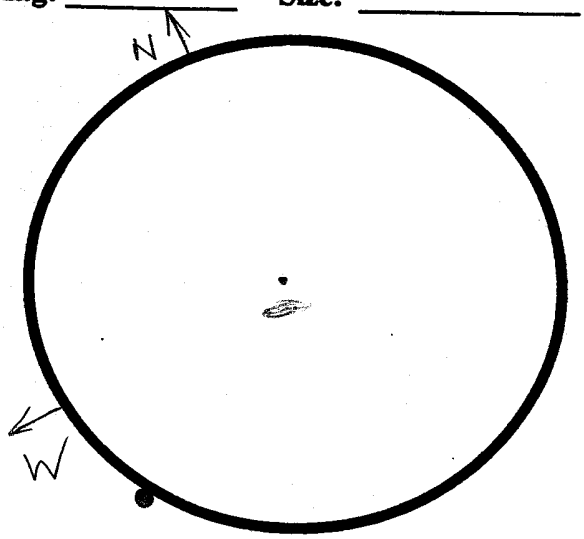
Object type: **Galaxy**

Object ID: NGC 4845

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/12/4

Time 10:30 CDT

Location RMCe

Seeing 5 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** 3x1 elong
- **Is a core noticeable?** No (?)
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** Not really
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** One portion (W) seems a 1/7th brighter
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Conditions degrading — lost sight

(1999 Cole & Pratt)

Observing Log

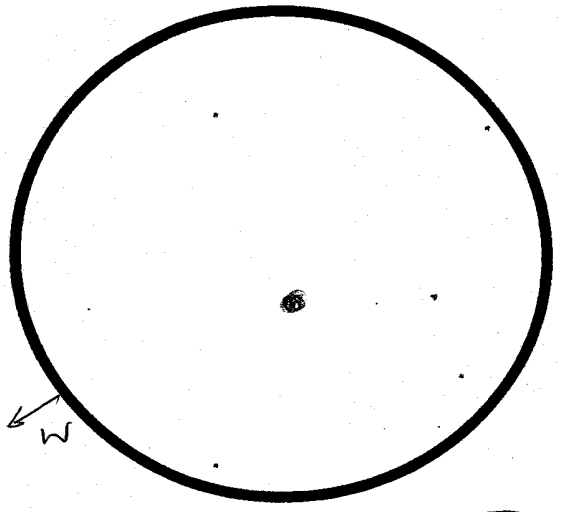
Object type: **Galaxy**

Object ID: NGC 4856

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 10:25 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ~~BT~~ X 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Some unevenness W side slightly brighter
- **Are the edges of the outer envelope sharp or diffuse?** Med
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** Only in mag, not "texture"
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description 22:28 W-E 4m sat ne

22:29 Ariane r/b

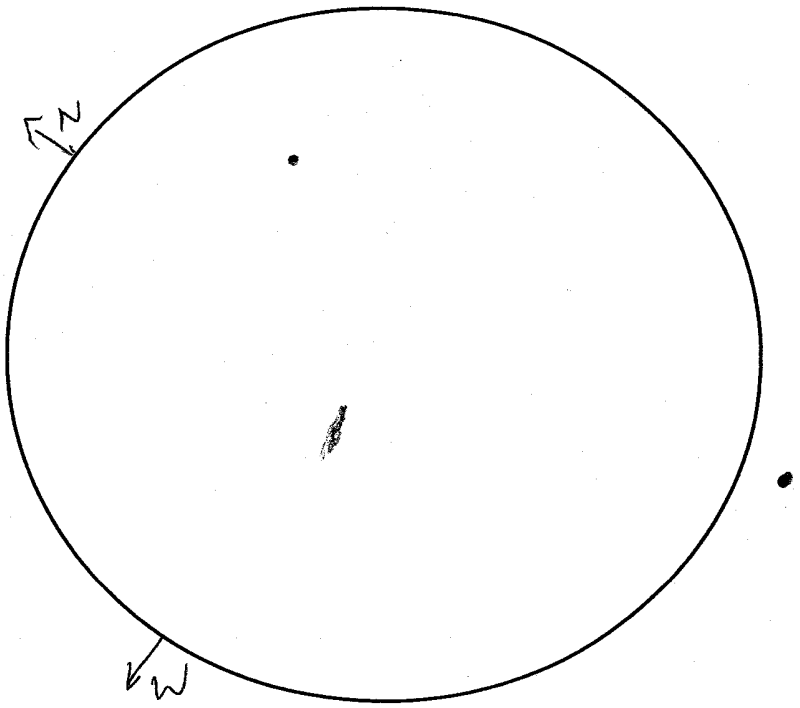
(1999 Cole & Pratt)

DATE 6/23/4 TIME 2100 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT ~~BTX-125~~ 10x50 EYE POWER 10 47 73 (153) 316 475

OBJECT NGC 4866 FILTER (NO) NB WB OIII ___

OBS. PROGRAM HI LOCATION (RMCC) HOME ___



More needle-like @ 47x, but 153x shows small nucleus & some mottle, w/ a very subtle "patch" on east side

Observing Log

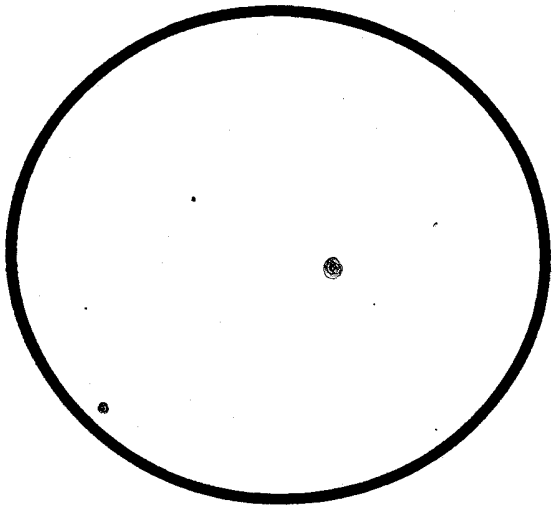
Object type: **Galaxy**

Object ID: NGC 4900

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:25 CDT

Location RMCC

Seeing 8 **Transparency** 2+

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?** DE
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?**

Description Core bright - "non-elliptical" glow surrounds it

(1999 Cole & Pratt)

Observing Log

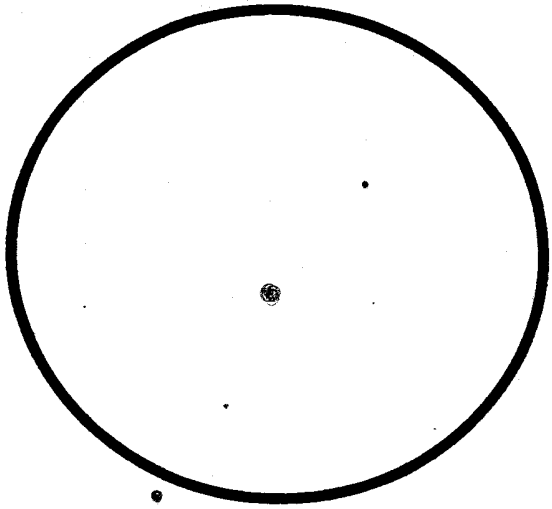
Object type: **Galaxy**

Object ID: NGC 4958

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 1010 CDT

Location RMCC

Seeing 9 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elliptical
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No - even low
- **Are the edges of the outer envelope sharp or diffuse?** Fairly
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

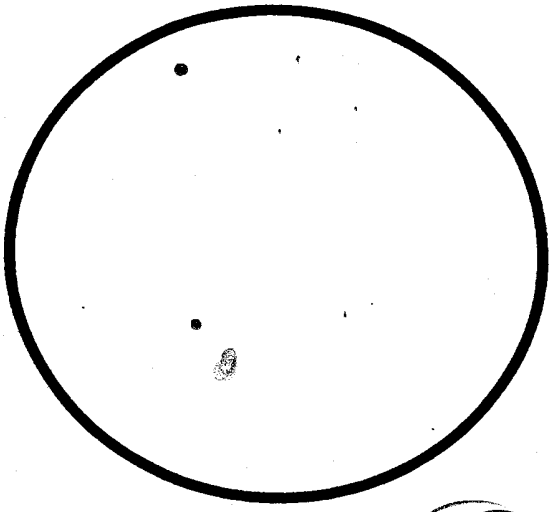
Object type: **Galaxy**

Object ID: NGC 4995

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/22/4

Time 10:00 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?** (hints) (best)
- **What is the overall shape?** Oval - elong
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Amorphous glow - sl. elongated

(1999 Cole & Pratt)

Observing Log

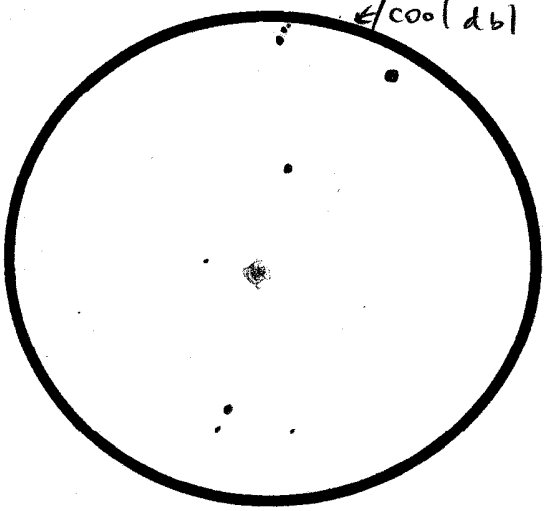
Object type: **Galaxy**

Object ID: NGC 5005

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** W



Observer BY

Date 3/11/4

Time 10:30 CST

Location RMCC

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Some hints w/av
- **Are the edges of the outer envelope sharp or diffuse?** mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** mottle
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

(1999 Cole & Pratt)

Observing Log

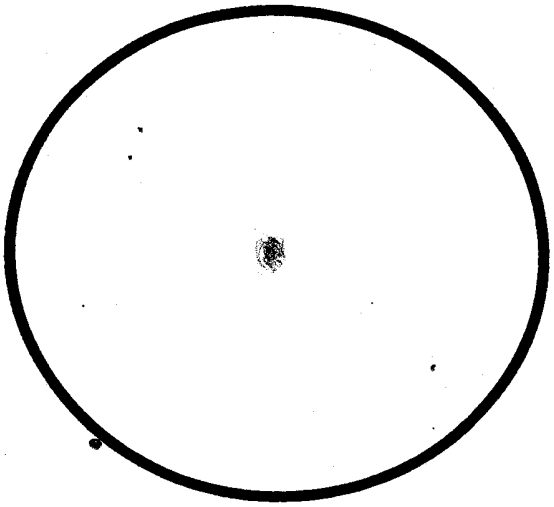
Object type: **Galaxy**

Object ID: NGC 5005

Const.: CnV

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 2:40

Location RMCC

Seeing 6 **Transparency** 3-

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 103

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Fairly even glow
- **Are the edges of the outer envelope sharp or diffuse?** Mod
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** 5033 in 47x Fld

Description _____

(1999 Cole & Pratt)

Observing Log

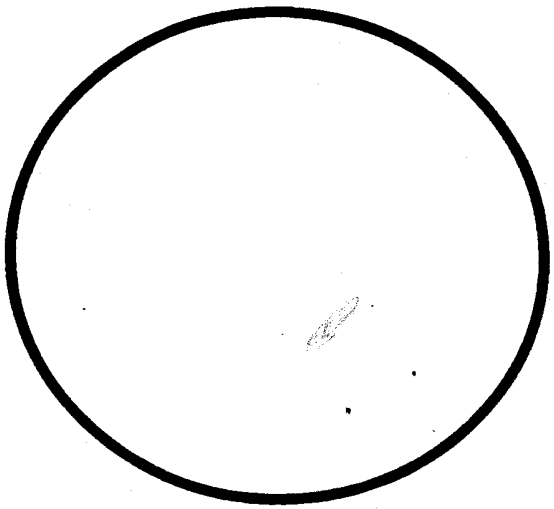
Object type: **Galaxy**

Object ID: NGC 5033

Const.: CVn

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 5/21/4

Time 2145

Location RMCC

Seeing 6 **Transparency** 3-

Instrument ~~ETX~~ 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153

- **Can this galaxy be seen with direct vision, or is averted vision required?** best
- **What is the overall shape?** streak
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?** mod even "cigar" streak
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No – 5005 in 42x Dd

Description _____

(1999 Cole & Pratt)

Observing Log

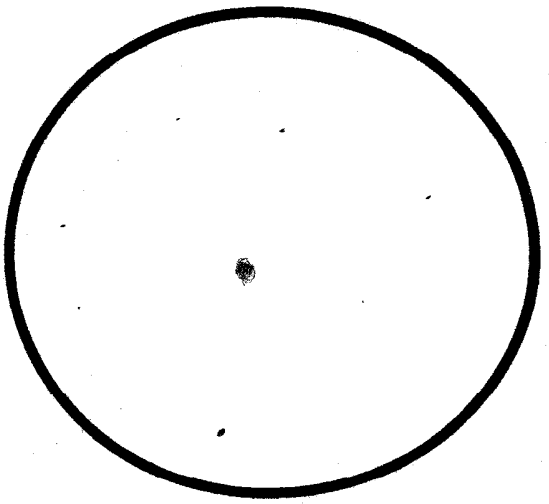
Object type: **Galaxy**

Object ID: NGC 5054

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 11:30 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No – "all core"
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No – just an even glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Confirming last obs

So hard!

23:28:44 CDT

9m

(5) 47x

(1999 Cole & Pratt)

Observing Log

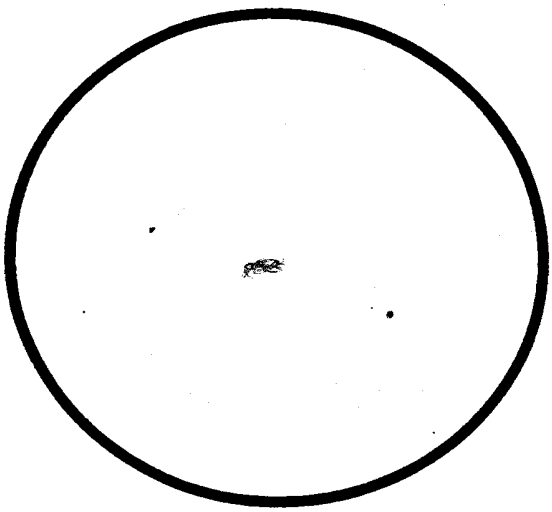
Object type: **Galaxy**

Object ID: NGC 5054

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/21/4

Time 10:00 CDT

Location RMCC

Seeing 8 **Transparency** 2

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ **Power** 47

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Long oval
- **Is a core noticeable?** Slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Long, mist, very elusive, also seemed "top" side heavy (North side)
Not visible @ 153x – 47x a.v. only but sure.

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 5195

Const.: CVn

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 5/21/4

Time 2:30

Location RMCC

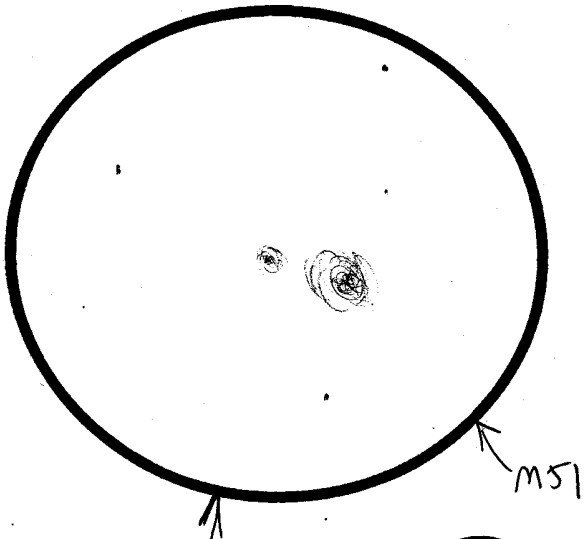
Seeing 6 **Transparency** 3-

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core very compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Not really
- **Are the edges of the outer envelope sharp or diffuse?** Hint of bridge between them but not conform
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** M51 - great - definite hints of spirality

Description _____

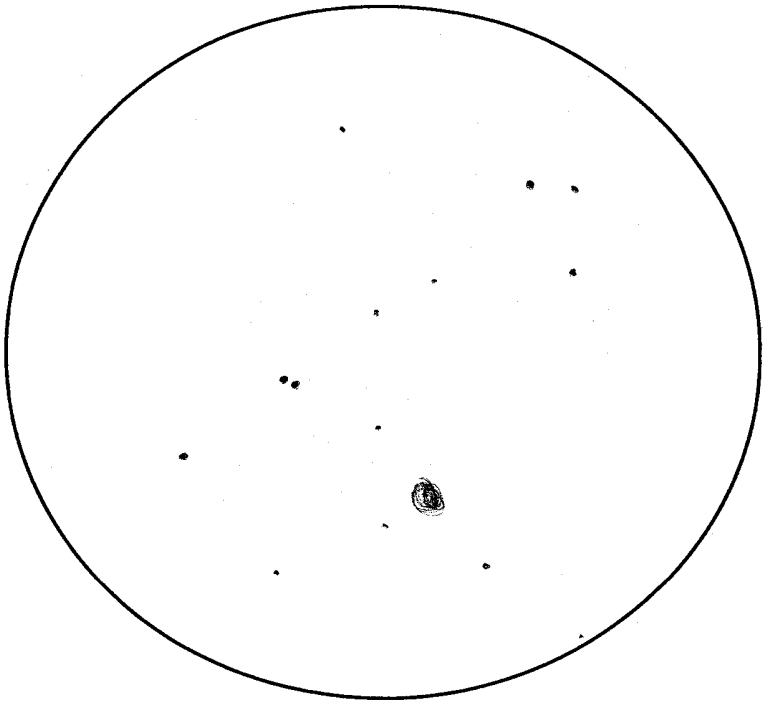
(1999 Cole & Pratt)

DATE 6/23/4 TIME 2:10 CST (CDT) CLARITY (I) II III IV V SEEING (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE POWER 10 (47) 73 153 316 475

OBJECT NGC 5248 FILTER (NO) NB WB OIII ___

OBS. PROGRAM H I & C45 LOCATION (RMCC) HOME _____



AV really makes it huge! Large, oval

no nucleus I saw, even glow

Observing Log

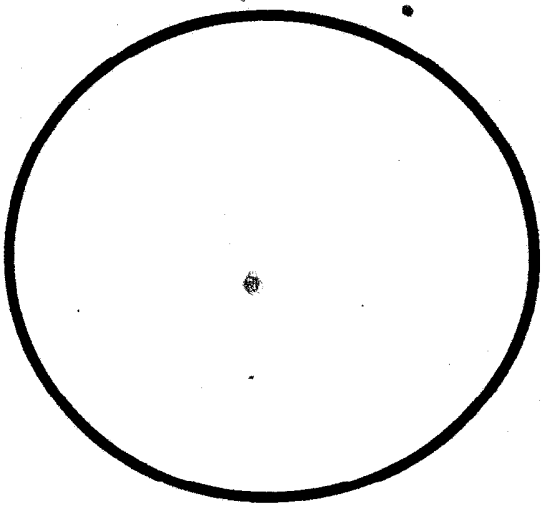
Object type: **Galaxy**

Object ID: NGC 5273

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 12100 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No - even morphous glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description See next - medium power view

(1999 Cole & Pratt)

Observing Log

Object type: **Galaxy**

Object ID: NGC 5273

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____

Observer BY

Date 6/24/4

Time 12:10 CDT

Location RMCC

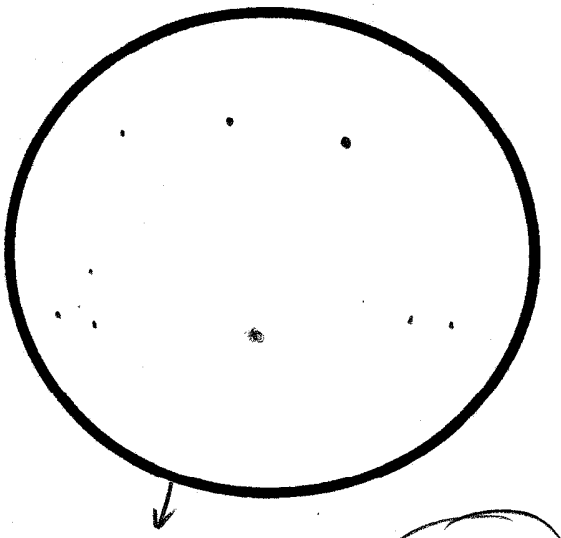
Seeing 8 **Transparency** 4+

Instrument ETX125

Size 125

Eyepiece 25

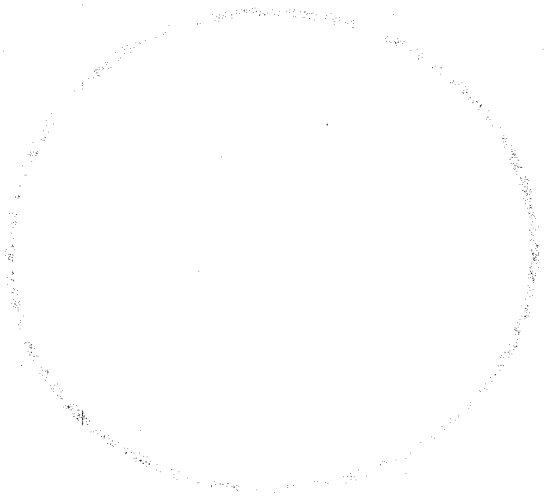
Field of view _____ **Power** 73x



- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** only slightly
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Takes 73x better although still dim.

(1999 Cole & Pratt)

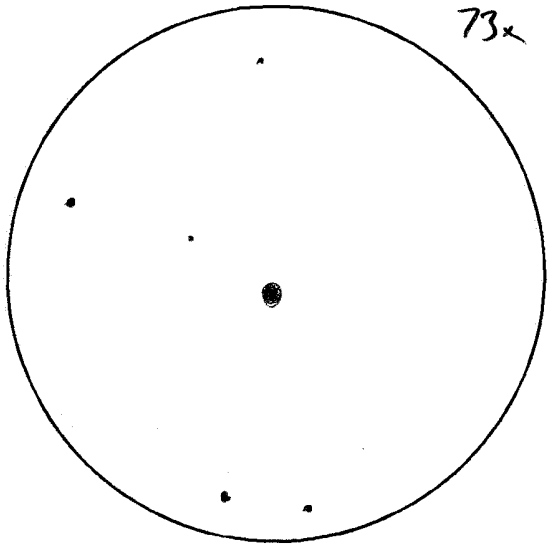


Site: [illegible] Eyepiece(s): [illegible]

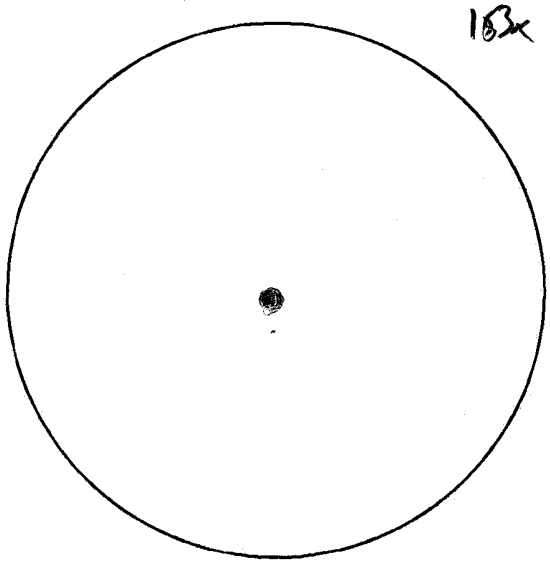
Seeing (1-10) 8 Transparency (1-5) 4 Filter(s): No

Field Drawing

Low Power Ocular



High Power Ocular



Description and Notes

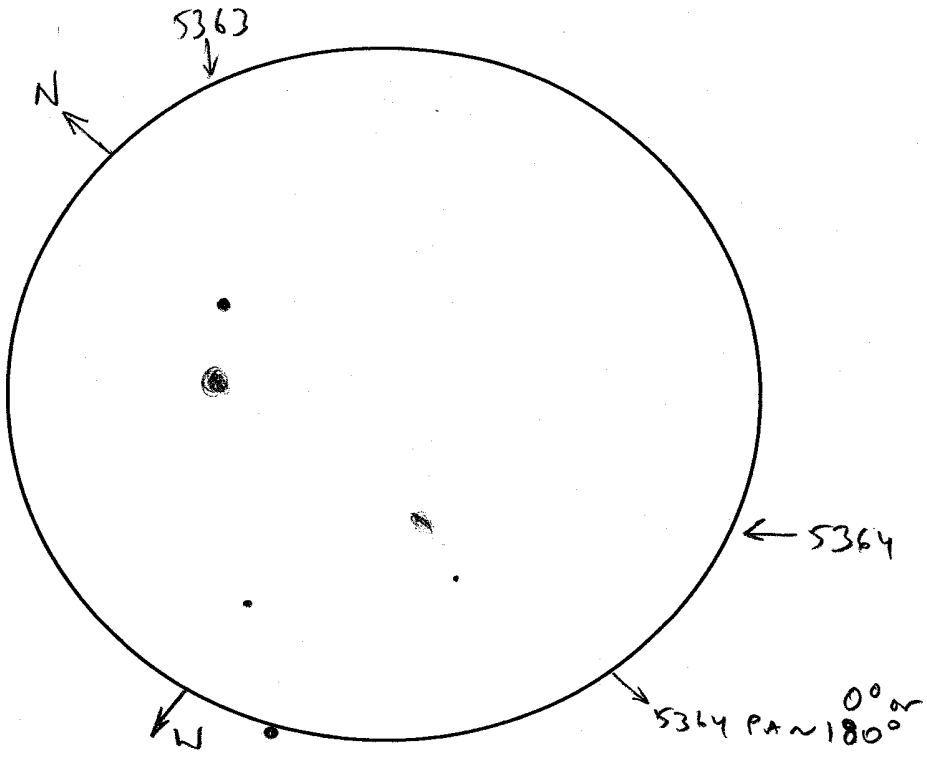
Direct vision
Oval shape
Compact, strong core
Gradually fading halo
No details, diffuse outer glow
No other d.s. objects in field

DATE 6/23/4 **TIME** 2:15 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10 47 73 (153) 316 475

OBJECT NGC 5363/5364 **FILTER** (NO) NB WB OIII ___

OBS. PROGRAM HI **LOCATION** (RMCC) HOME ___



Both fit in 153x! & obviously different types

5363: "Usual" elliptical, med size, 10.5 mag, Compact nucleus w/ sl. diffuse halo evenly fading outwards

5364: Elongated (~2x1), no nucleus, some hint of middle "needle" with faint halo around it, a little dim, diffuse

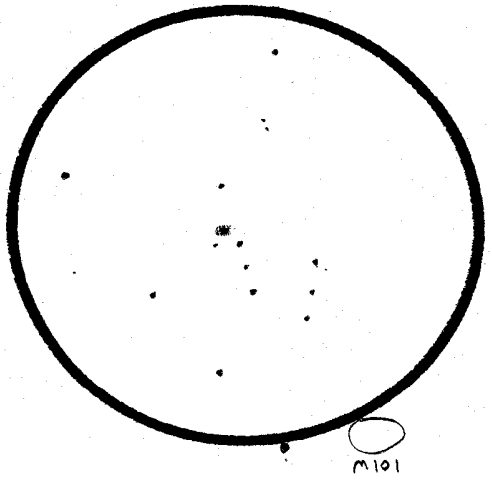
Observing Log
Object type: **Galaxy**

Object ID: NGC 5473

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/27/3

Time 8:48

Location RMCE

Seeing 8 **Transparency** 6

Instrument BTX125

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?** better w/
- **What is the overall shape?** Round
- **Is a core noticeable?** yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** M101 just off to SW.

Description _____

(1999 Cole & Pratt)

LOCATION: VERDIGRIS @ LOLD FRONT

DATE: 6/20/95 TIMES: 12:50-4:55 CDT

DESCRIPTION: CLEAR & BUG-FREE!

C: I II III IV V

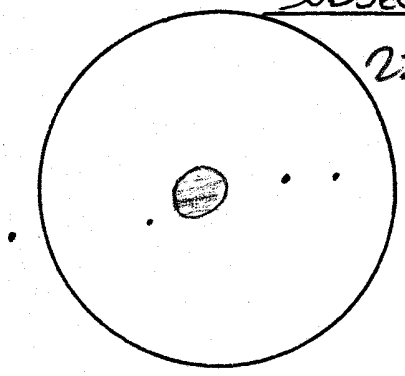
S: I II III IV V

I: EYE 10x50 4:5 OTHER

P: 0x 10x 45x 90x 220x 440x

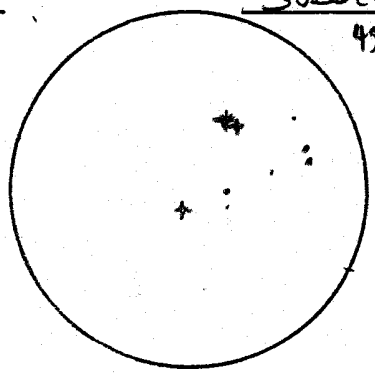
SUBJECT: 4

220x



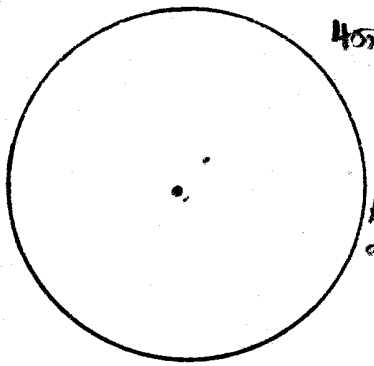
SUBJECT: 3 UMa

45x



SUBJECT: 84 & 83 UMa

45x 145° Blue + W.

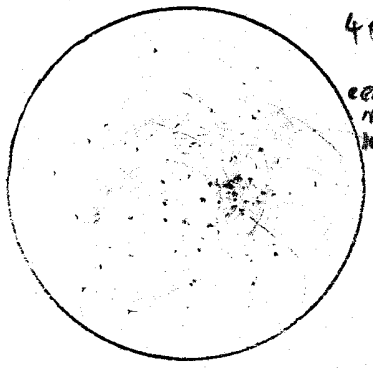


Also: 83 is ♂ red alright!

SUBJECT: M101

45x SPIRAL DETAIL

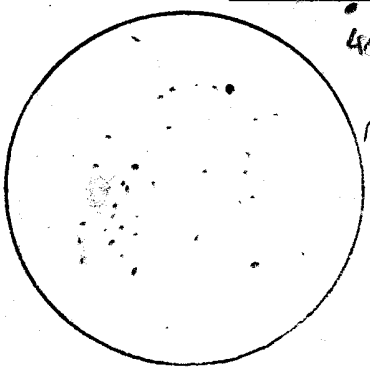
CENTER "PATCH" RICHER IN BOTH GLOW + FAINTS. 1000's FAINTS



SUBJECT: NGC 5473

45x elong a bit N-S

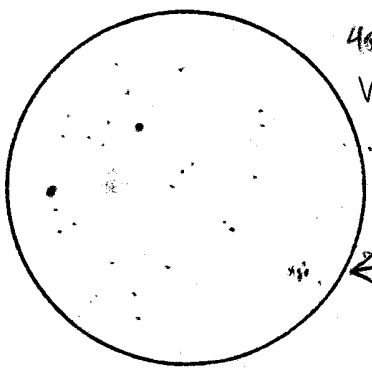
not diff w/ av.!



SUBJECT: NGC 5845

45x not too hard

very small though



← cool

Observing Log

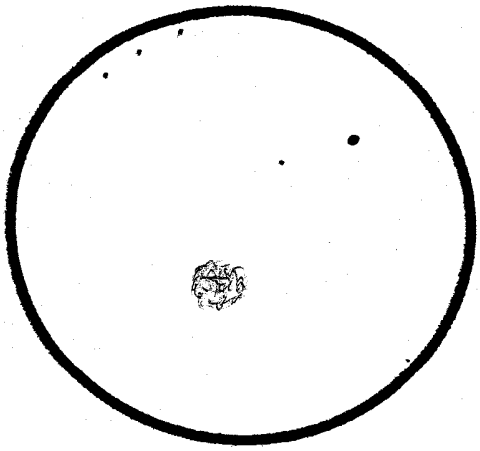
Object type: Globular Cluster

Object ID: NGC 5466

Const.: Boo

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/19/3

Time 9:00 CDT

Location NMCE

Seeing 8 **Transparency** 6

Instrument DX 25

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or very loosely concentrated?**
- **Is any part of the cluster resolved into stars?** No
- **Is any mottling visible?** No
- **Can the edges be resolved?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very big & faint & "ghostly"

(1999 Cole & Preuß)

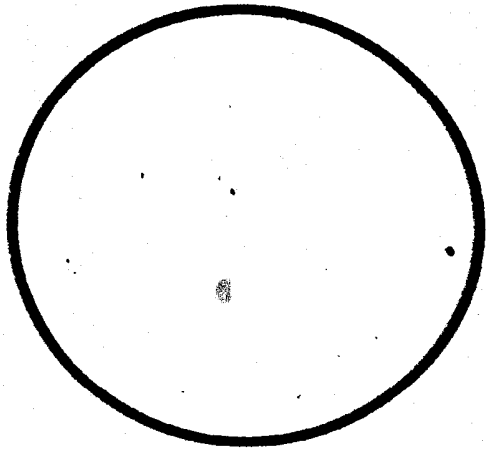
Observing Log
Object type: Galaxy

Object ID: NGC 5474

Const.: UMa

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/27/3

Time 8:55

Location RMCC

Seeing 8 **Transparency** 6

Instrument 125mm

Size 125mm

Eyepiece 40mm

Field of view _____ **Power** 47x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** _____
- **Are there any other deep-sky objects in the same field of view? If so, what?** M101 just to N

Description AV & motion required - but seen

(1999 Cole & Preuit)

LOCATION:

DATE: 6/29/96 COMP. TIMES: CST CDT

DESCRIPTION:

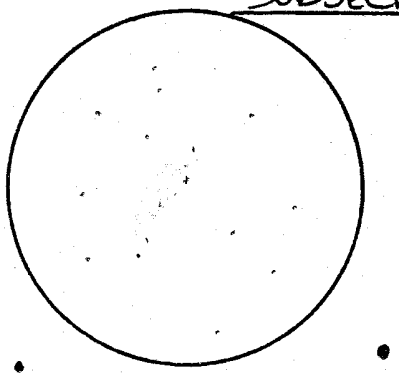
C: I II III IV V

S: I II III IV V

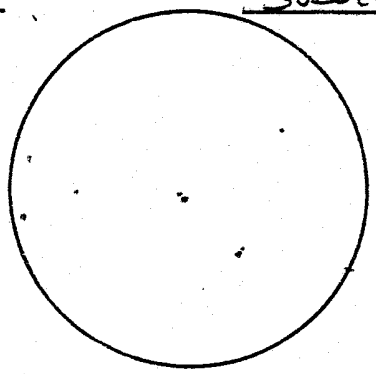
I: EYE 10x50 4.5" OTHER

P: 0x 10x 45x 90x 220x 440x

SUBJECT: NGC 5474

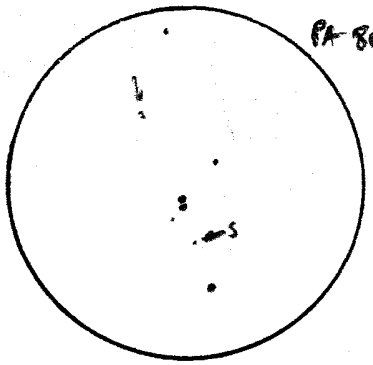


SUBJECT: 2 DBLS ~1.5°W of Σ1839

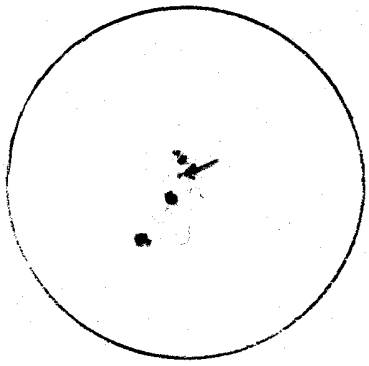


SUBJECT: Σ1839 + SUMa

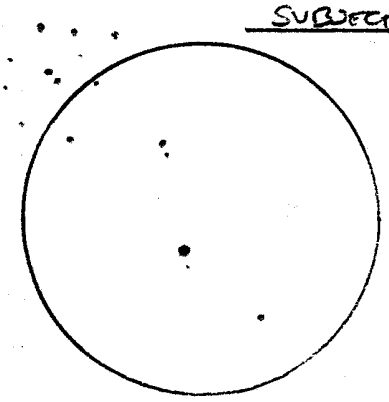
PA 80° 45x



SUBJECT: Σ1830 + Σ1831

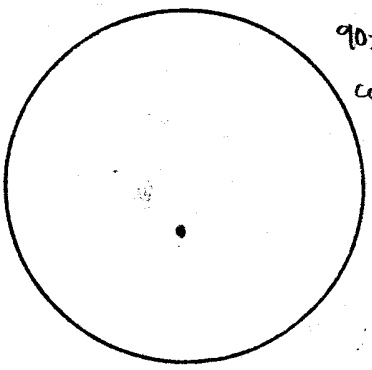


SUBJECT: [illegible]



SUBJECT: NGC 5585

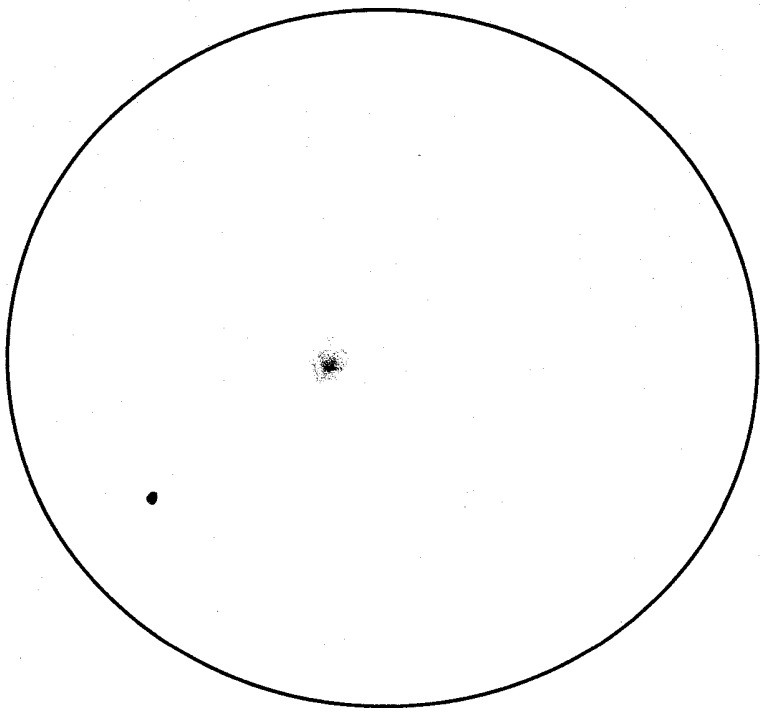
90x not too hard REAR confirms



DATE 8/24/3 **TIME** 9:25 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 5557 **LOCATION** (RMCO) HOME _____



Faint but easy identified as elliptical — 153X proves it out. Pretty easy to "hop" to. Having just seen a planetary, a dim globular, and now an elliptical galaxy - all basically the same shape - its just the "feel" of the glow, mottling or not, and the "evenness" that distinguishes

Observing Log

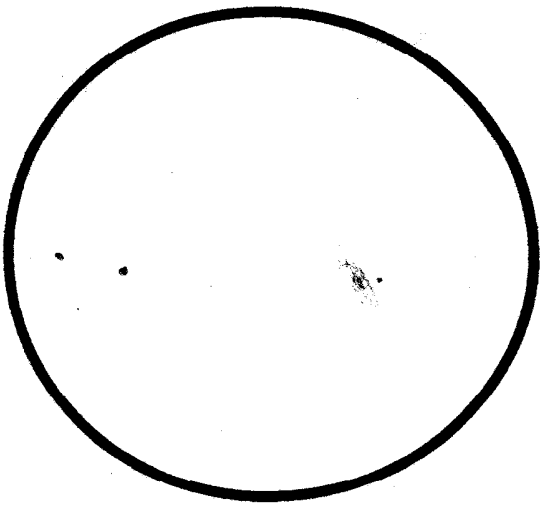
Object type: **Galaxy**

Object ID: NGC 5566

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 12:50 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Elongated (very dim along part)
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** No - even glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Elongation was not noticed until after checking I.D. long - and very tenuous. At first sight, I saw only oval core area.

(1999 Cole & Pratt)

The American Association of Amateur Astronomers

www.AstroMax.com

Observation Log

and SketchTemplate

Observer: BY

Date: 6/24/4

Time: 1120 CDT

Site: RMCe

Seeing (1-10) 8 Transparency (1-5) 4

Object: NGC 5576

Constellation:

R.A. ____h ____m Dec. ____d ____m

Listed Magnitude: ____ Listed Size: ____

Source:

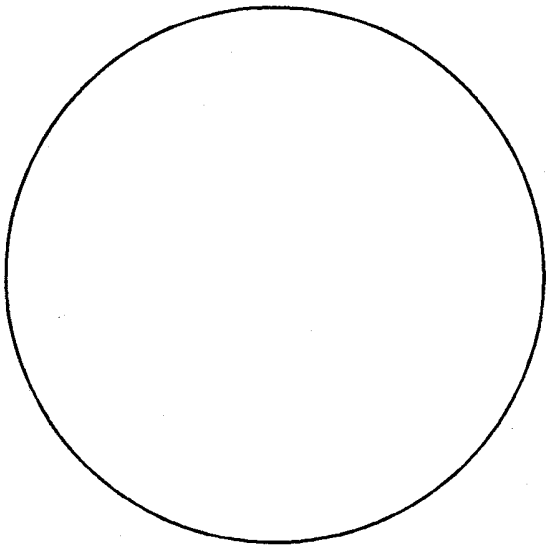
Telescope: ETX 125

Eyepiece(s): 25mm

Filter(s): NO

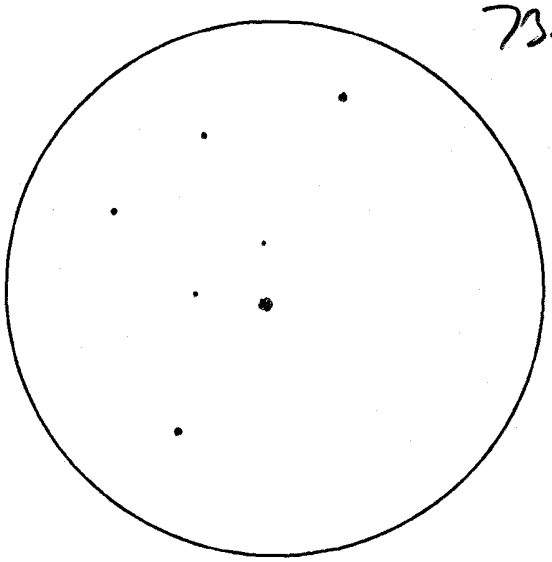
Field Drawing

Low Power Ocular



High Power Ocular

73x



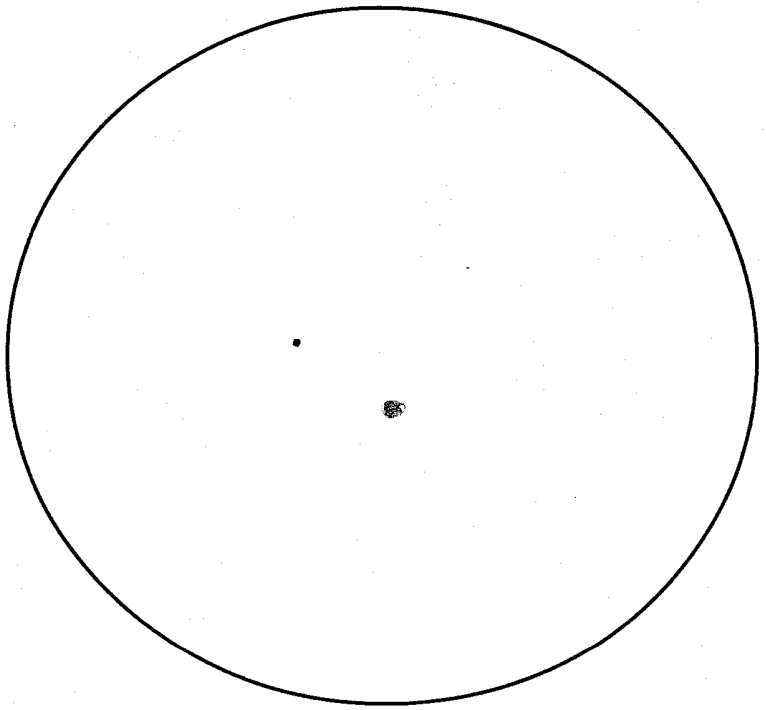
Description and Notes

Small, "all core" elliptical w/ some diffuse halo surrounding it, diffuse glow, core compact & easily seen - 153x was too much, 73x better view

DATE 8/24/13 **TIME** 9:40 CST (CDT) **CLARITY** I II III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 5631 **LOCATION** (RMCC) HOME _____



Very faint but seen – even w/direct vision @ 153x

Small – not stellar, amorphous glow

Observing Log

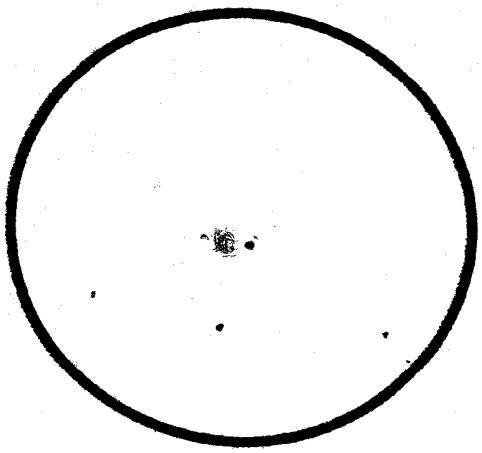
Object type: **Globular Cluster**

Object ID: NGC 5634

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 12:20 CDT

Location RMCC

Seeing 8 **Transparency** 4+

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** Hints at edges
- **Is any mottling visible?** Just a bit on edges
- **Can the edges be resolved?** Hints
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Excellent view found by Gs. — nice to see a glob after all the elliptical galaxies — obviously a different "glow"

(1999 Cole & Print)

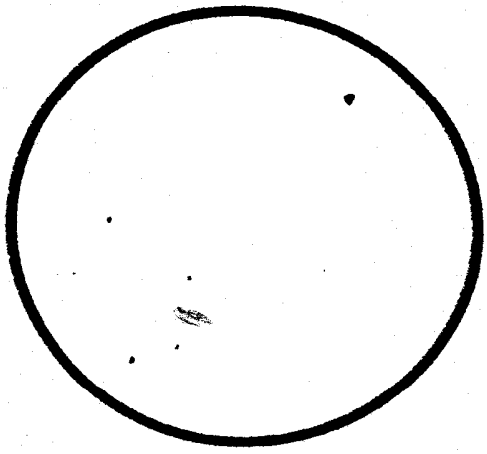
Observing Log
Object type: Galaxy

Object ID: NGC 5676

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 8/24/03

Time 10:15

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX-125EC

Size 125mm

Eyepiece _____

Field of view _____ **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?** but helps!
- **What is the overall shape?** 3x1 ellip.
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** None

Description Just seeing nucleus I would suppose

(1999 Cole & Preuit)

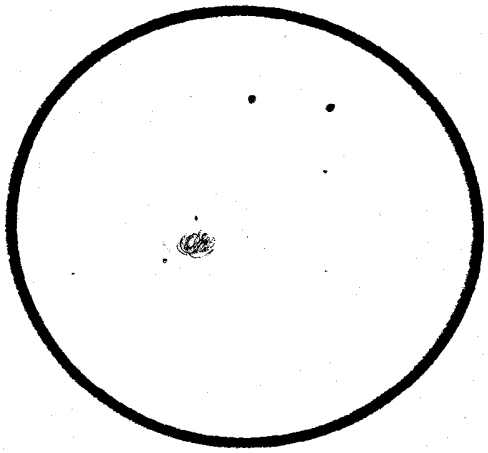
Observing Log
Object type: **Galaxy**

Object ID: NGC 5689

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 8/24/03

Time 10:30

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125 mm

Eyepiece 12.4 mm

Field of view _____ **Power** 153X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Amorphous
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** None
- **Are there any other deep-sky objects in the same field of view? If so, what?**

Description Just an indefined glow on S side of 2 11m stars

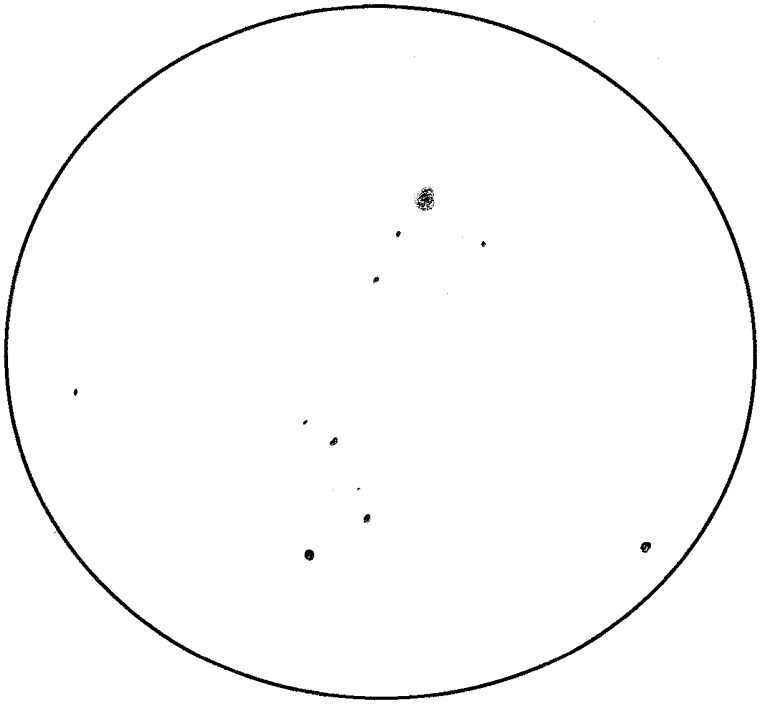
(1999 Cole & Pratt)

5/30

DATE 5/30/3 **TIME** 11:25 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 5694 **LOCATION** (RMCC) HOME _____



73x field also amazing!

Not much res - just hint of mottle

Brighter nucleus

Observing Log

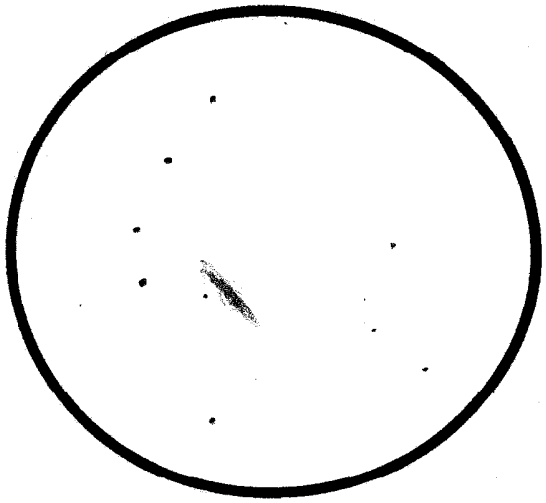
Object type: **Galaxy**

Object ID: NGC 5746

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 12:35 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Very elongated "needle" with some halo
- **Is a core noticeable?** No
- **Is the core compact or stellar?** N/A
- **Can any detail be seen between the core and the outer envelope of the object?** Slightest halo around middle
- **Are the edges of the outer envelope sharp or diffuse?** No for "needle"
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No - even
- **Are there any other deep-sky objects in the same field of view? If so, what?** No.

Description Amazing needle!

(1999 Cole & Pratt)

Observing Log

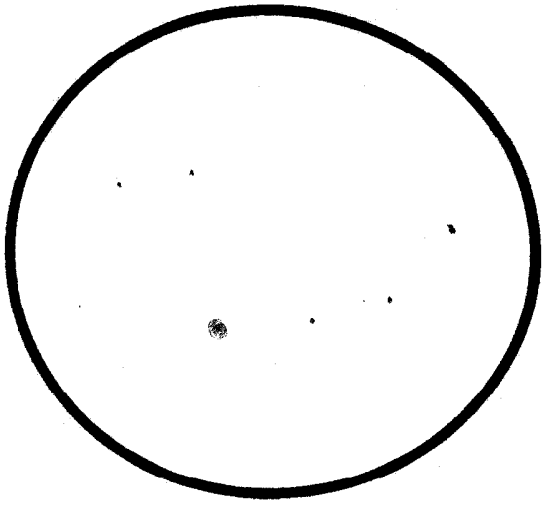
Object type: **Galaxy**

Object ID: NGC 5846

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/24/4

Time 1400 CDT

Location RMCC

Seeing 8 **Transparency** 4

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round - "all core"
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Evenly dimming glow
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

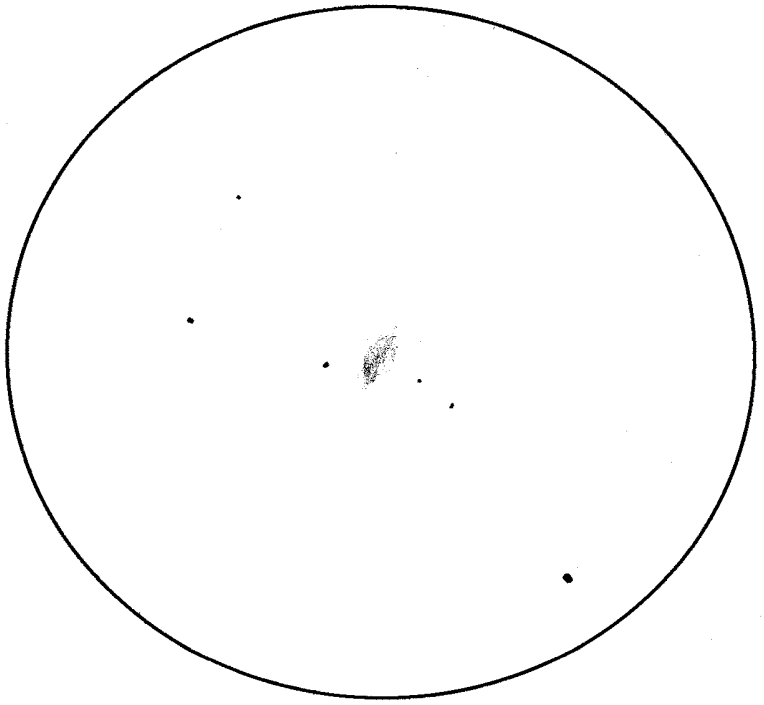
Description "Std" elliptical

(1999 Cole & Pratt)

DATE 7/22/3 **TIME** 10:20 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT M102 (NGC 5866) **LOCATION** (RMCO) HOME _____



Not too dim - somewhat brighter on SW edge

LOCATION:

DATE: 6/26/95 cont. TIMES: CST CDT

DESCRIPTION:

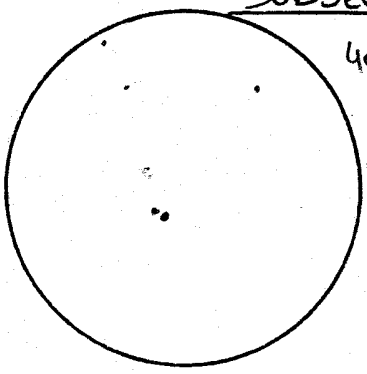
C: I II III IV V

S: I II III IV V

I: EYE 10x50 4:5 OTHER

P: 0x 10x 45x 90x 220x 440x

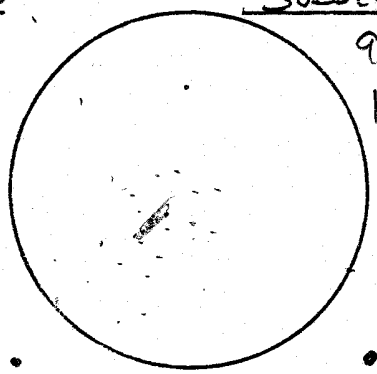
SUBJECT: SHJ 191 + NGC 5820



45x Y+b to me, too!

With REAV, NGC 5820 shows up!

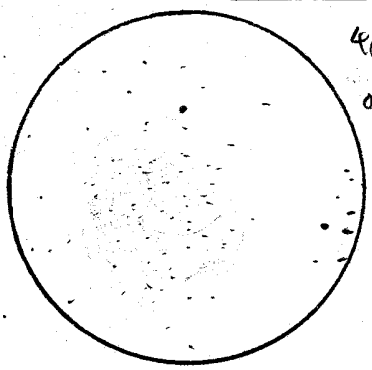
SUBJECT: NGC 5866



90x Cool!

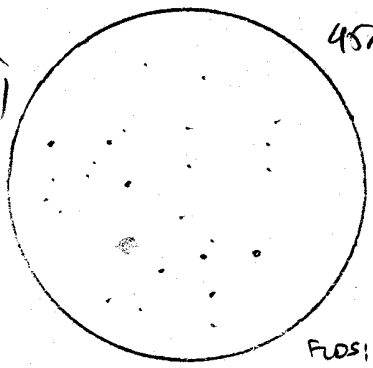
1:45 am

SUBJECT: M55



45x (90x too weirded out w/my tired eyes)

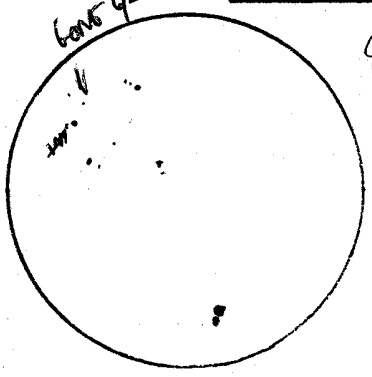
SUBJECT: COMET D'ARREST



45x

FLOS!

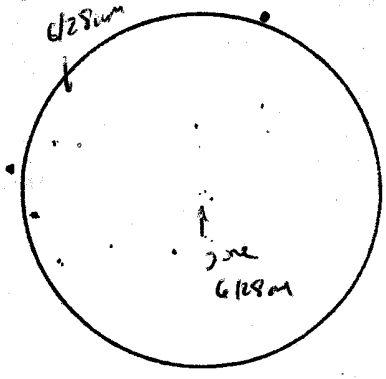
SUBJECT: plot [illegible] + Thisbe



GONE 6/28am!

45x

SUBJECT: [illegible]



6/28am

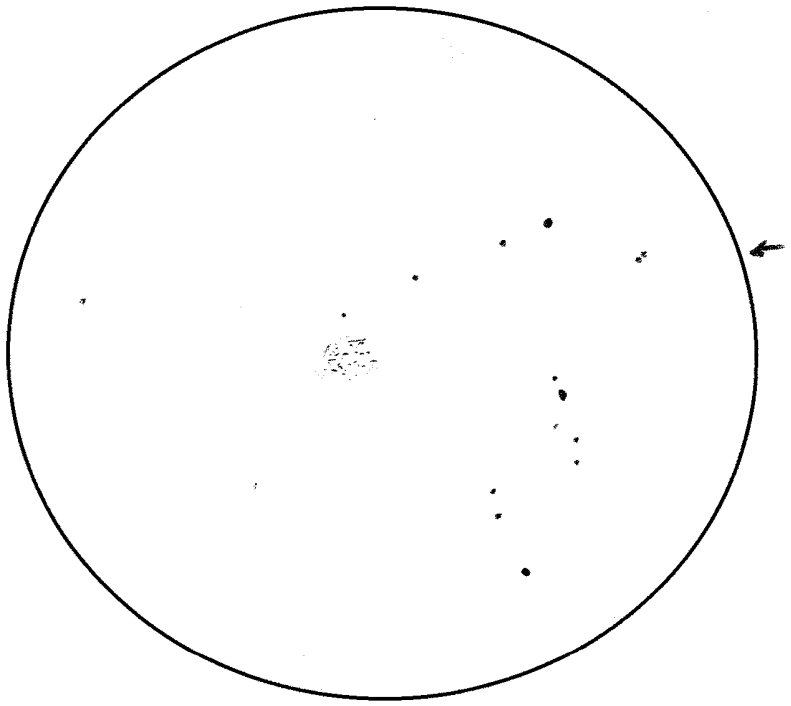
gone 6/28am

5/30

DATE 5/30/3 **TIME** 11:35 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 5897 **LOCATION** RMCC HOME _____



Sprinkle of stars res. against fuzzy background

Rather loose & big. Great faint dbl ←'d

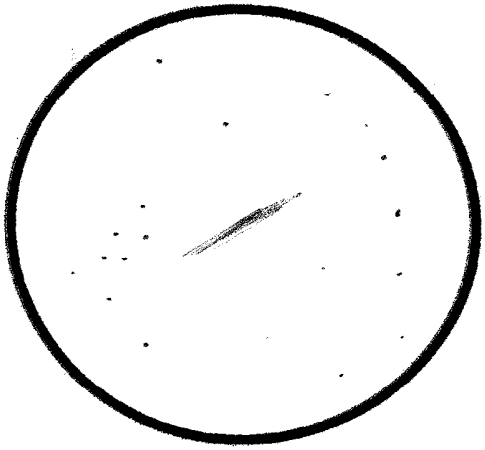
Observing Log
Object type: Galaxy

Object ID: NGC 5907

Const.: Dra

RA: 15h16 **Dec.:** +6~~3~~6

Mag: 10.5 **Size:** 0.5'x10'



Observer BY

Date 8/16/03

Time 9:20pm CDT

Location RMCC

Seeing 6-7 **Transparency** 4

Instrument ETX-125EC

Size 125mm

Eyepiece

Field of view **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?** BARELY MUCH BETTER
- **What is the overall shape?** HAIRLINE
- **Is a core noticeable?** NO
- **Is the core compact or stellar?** WHAT THERE IS IS COMPACT
- **Can any detail be seen between the core and the outer envelope of the object?** NO
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** NO
- **Are there any other deep-sky objects in the same field of view? If so, what?** NO

Description Long needle of glow - not much to nucleus

(1999 Cole & Pratt)

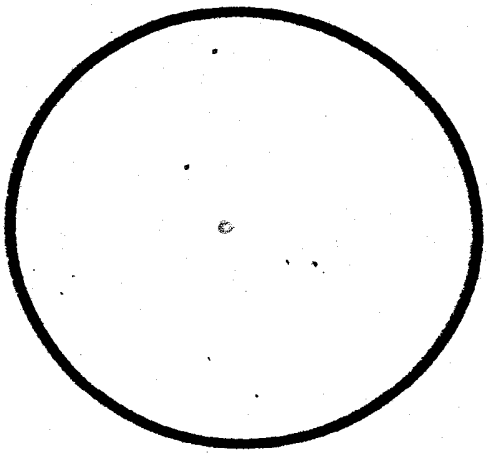
Observing Log
Object type: Galaxy

Object ID: NGC 5982

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 8/24/03

Time 10:45 CDT

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125mm

Eyepiece 26mm

Field of view _____ **Power** 73X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** None
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very faint & small - but seen

(1999 Cole & Preuit)

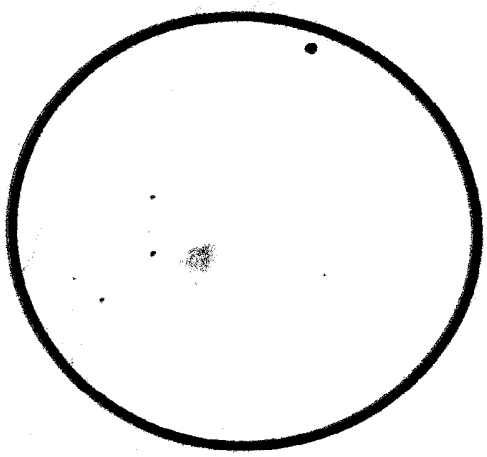
Observing Log
Object type: Galaxy

Object ID: NGC 6118

Const.: Ser

RA: 16h22 **Dec.:** -2

Mag: 11.5 **Size:** 1'x2'



Observer BY

Date 8/16/3

Time 11:15pm

Location RMCC

Seeing 7 **Transparency** 4

Instrument ETX

Size 125mm

Eyepiece

Field of view **Power** 73x

- **Can this galaxy be seen with direct vision, or is averted vision required?** Very difficult
- **What is the overall shape?** Amorphous/roundish or ellip.
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the outer envelope sharp or diffuse?**
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Very dim

Compared to Herschell guide: 4'x1', very elusive (I'll say!)

"Blinking Galaxy" – yes! Near 6m – yes – see dug

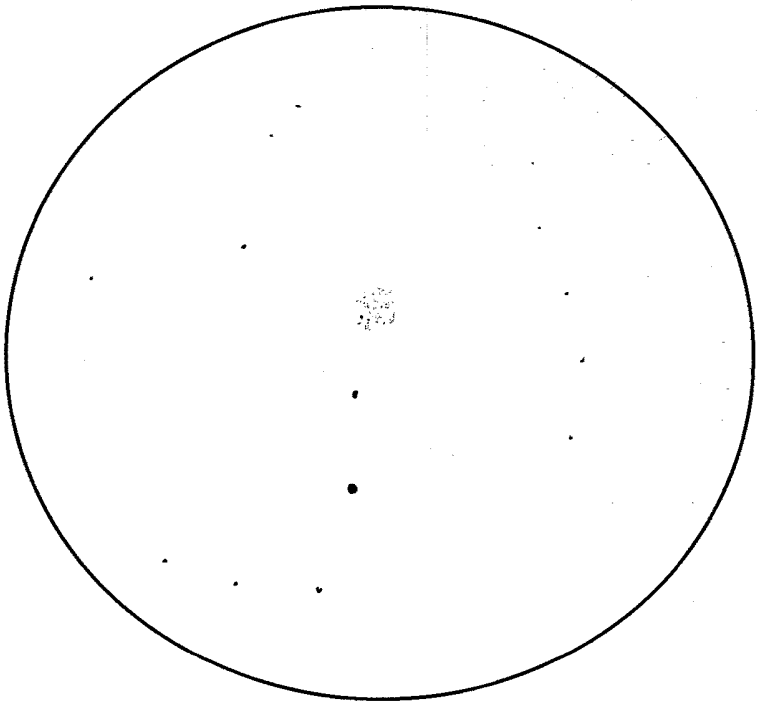
(1999 Cole & Pratt)

CFN #2

DATE 7/23/3 **TIME** 11:20 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6144 **LOCATION** (RMCO) HOME _____



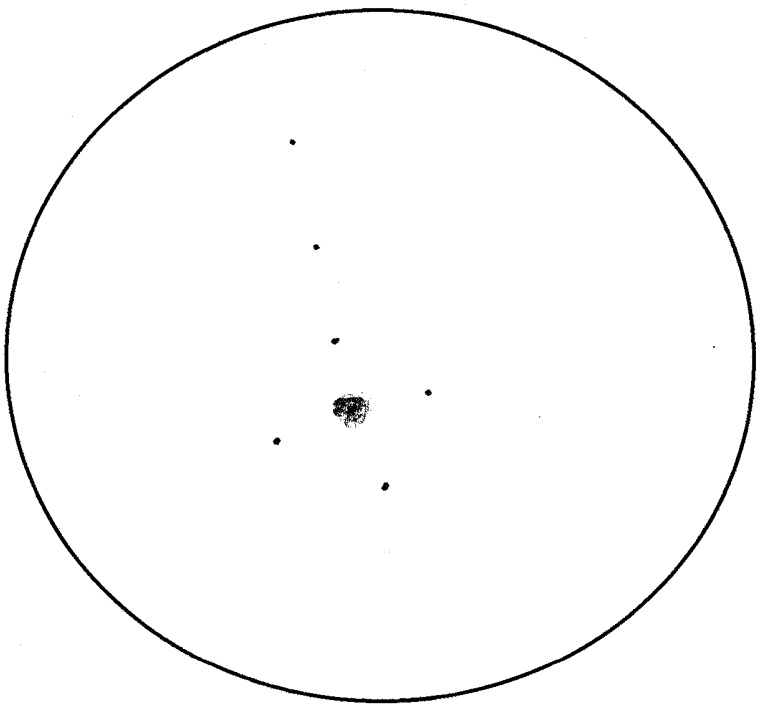
Very small - rather rich cluster barely resolved

NGC 6171

DATE 7/27/2 **TIME** 9:00 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT M107 **LOCATION** (RMCC) HOME _____



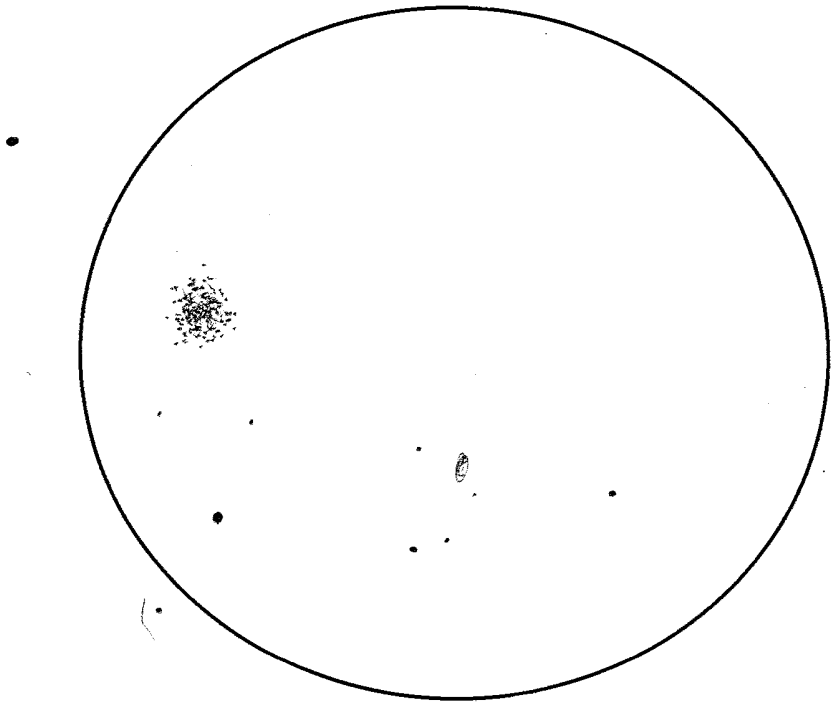
NO REFS - DIM @ MED. POWER. NICE FIELD "→"

MSRA2 2

DATE 6/21/03 **TIME** 1015 CST CDT **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M13 / NGC 6207 **LOCATION** (RMCC) HOME _____



M13 not bad - resolved fully @ edges even a low power. Almost directly overhead so transparency is okay. NGC 6207 seen, not much detail, but a distinct glowing oval in same field (to North)

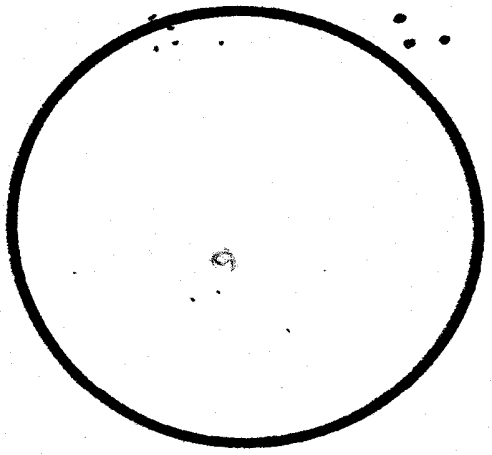
Observing Log
Object type: Galaxy

Object ID: NGC 6217

Const.: UMi

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 9/19/3

Time 9:15 CDT

Location NMCE

Seeing 8 **Transparency** 6

Instrument AX125

Size 125mm

Eyepiece _____

Field of view _____ **Power** 75X

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** small round glow
- **Is a core noticeable?** —all I see
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** hint of arm to NE
- **Are the edges of the outer envelope sharp or diffuse?** not seen
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?** no
- **Are there any other deep-sky objects in the same field of view? If so, what?** no

Description _____

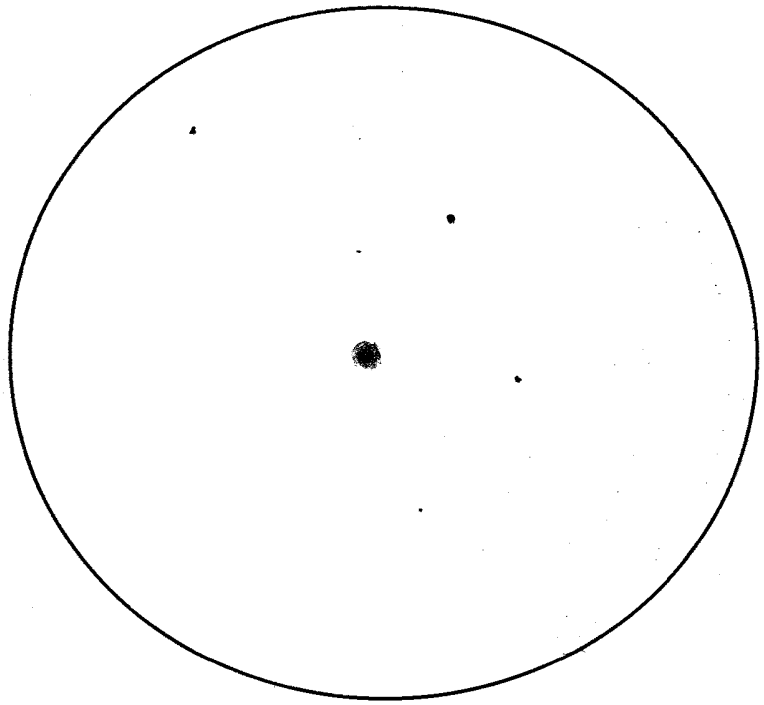
(1999 Cole & Print)

RMCC COLDFRONT NITE 2

DATE 7/23/3 **TIME** 9:40 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (53X) 475X

OBJECT N6e 6229 **LOCATION** (RMCC) HOME _____

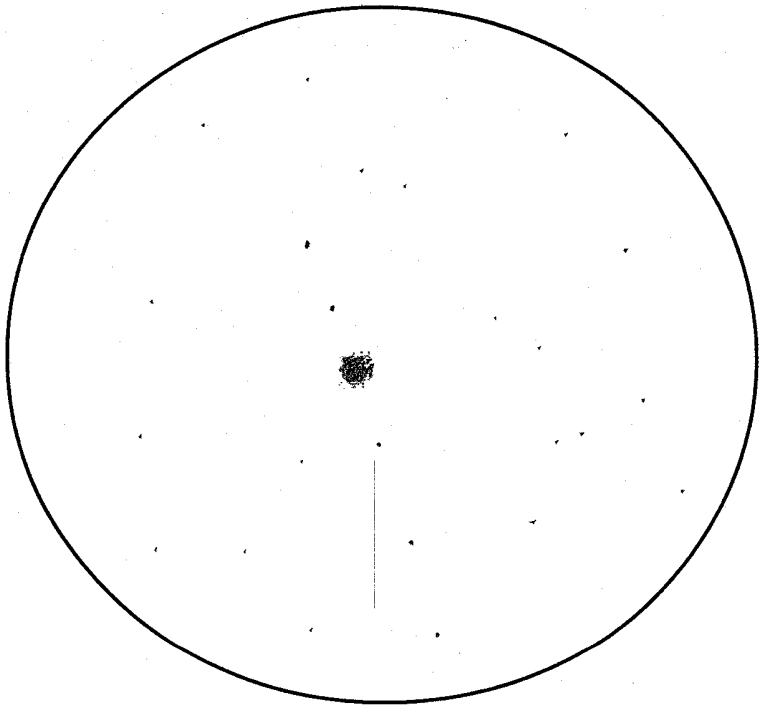


Host of mottle - very lovely & easy to find near zenith

DATE 8/24/3 **TIME** 9:15 CST (CDT) **CLARITY** I II (III) IV V **SEEING** I II (III) IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 6440 **LOCATION** (RMCO) HOME _____



While nearby @ NGC 6445 – some hints of res & grainyness @ 153x. Nice view – nice line of Hd stars

Observing Log

Object type: **Planetary Nebula**

Object ID: NGC 6445

Const.: _____ **Observer** B Yount

RA: _____ **Dec.:** _____ **Date** 6/19/6

Mag: _____ **Size:** _____ **Time** 12:25

Location MCC B= +4

Seeing I **Transparency** I

Instrument XT12

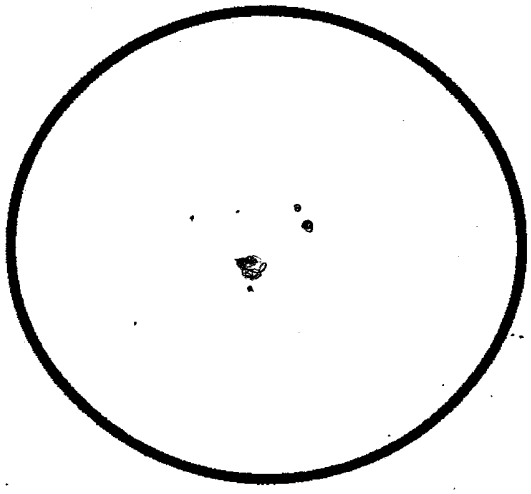
Size 12" f/5

Eyepiece 10mm

Field of view _____ **Power** 150X

w/WBNR

D=22d (not up)



- **What is the overall shape?** Distinctive oval
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** sl blue-grey
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** sl.
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** 6440 just S

Not well seen 36x direct vision

D-A=no

No cls.

Description M23 on way (36x) wonderful!

6445 appears sl "NO shape" w/ bright NW & SW extension

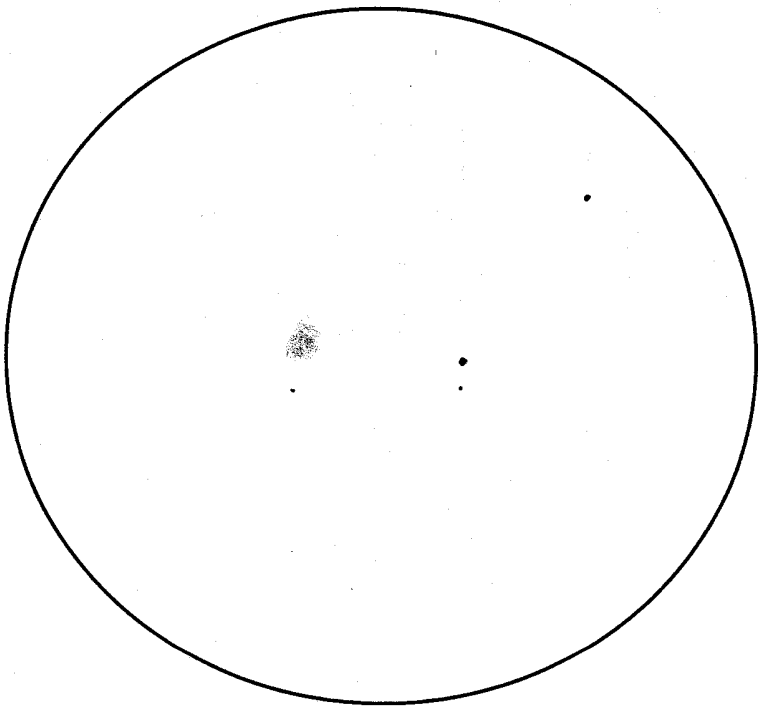
6440 noticed 36x but not resid.

(1999 Cole & Pratt)

DATE 8/24/3 **TIME** 9:10 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X (163X) 475X

OBJECT NGC 6445 **LOCATION** ~~RMCC~~ HOME _____

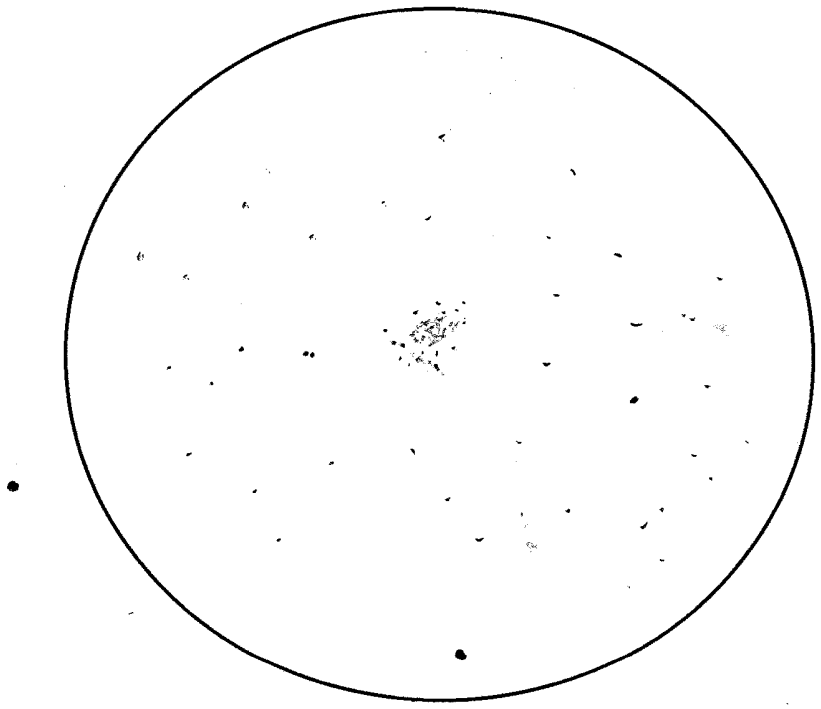


Pretty easy even @ 73x. No detail @ either power - didn't try neb. filter, seemed abit dim to push it. No real color to it but it had that even "planetary" glow to it.

DATE 7/22/3 **TIME** 11:10 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6451 **LOCATION** (RMCC) HOME _____



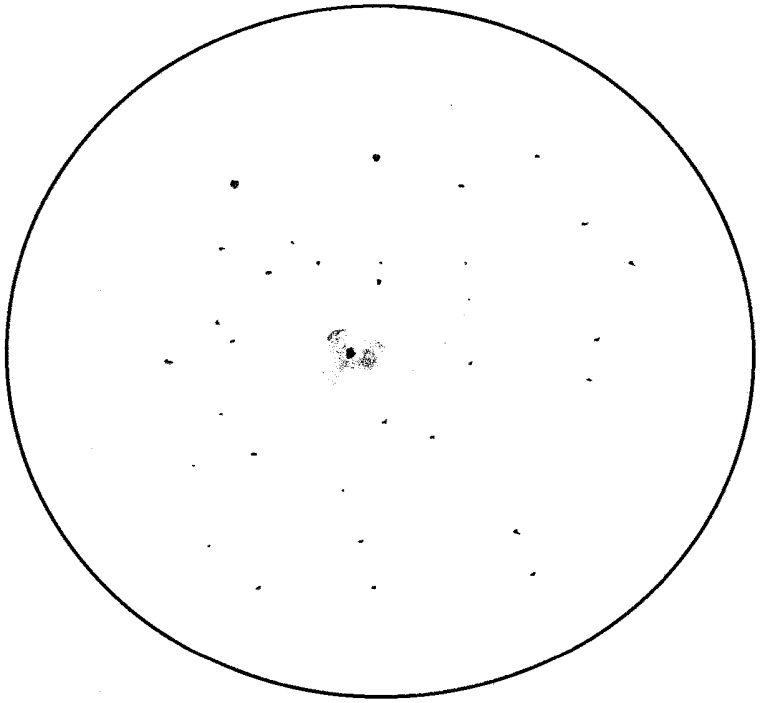
Beautiful rich cluster w/"haze" of dim unresolved stars behind ~ 20 in front.

NGC 6514

DATE 7/23/3 **TIME** 1:30 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M20 **LOCATION** (RMCC) HOME _____



OBVIOUS GAPS IN NEBULA - DID NOT TRY C. STAR

Observing Log

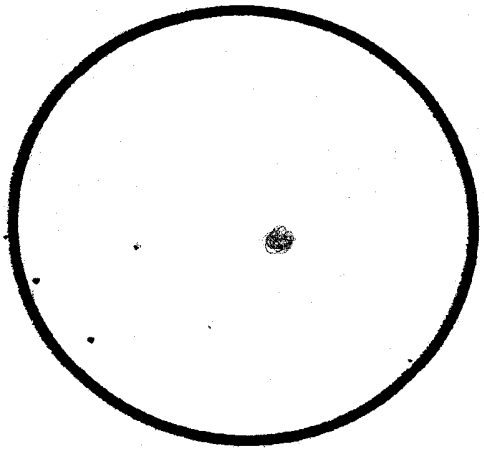
Object type: Globular Cluster

Object ID: NGC 6517

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 8/24/03

Time 10:55 CDT

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125mm

Eyepiece 12.4mm

Field of view _____ **Power** 153x

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or loosely concentrated?** medium
- **Is any part of the cluster resolved into stars?** No
- **Is any mottling visible?** just @ very edges
- **Can the edges be resolved?** No
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Blank area - very few stars

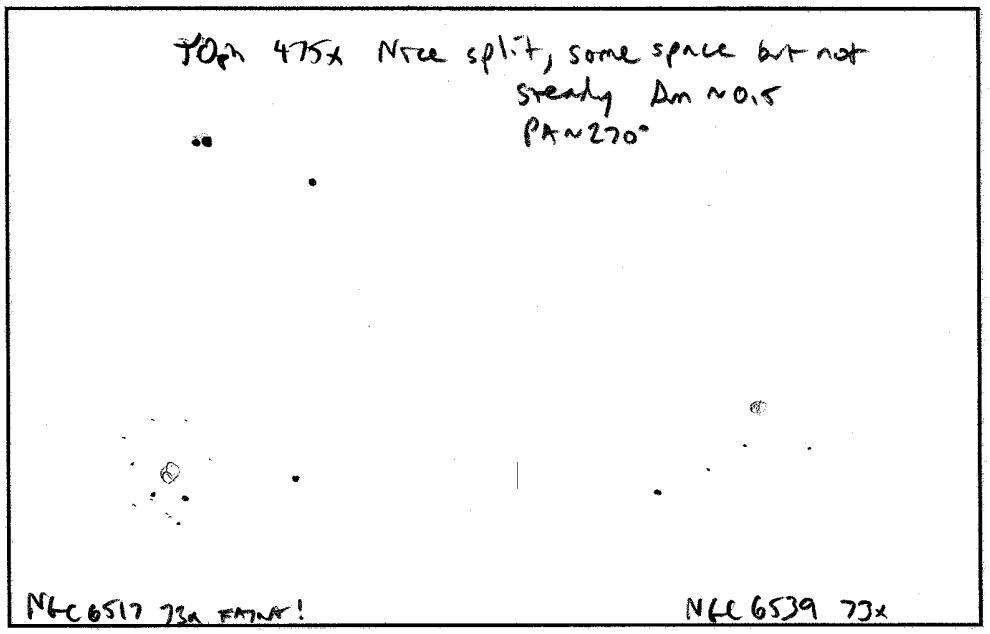
(1999 Cole & Preuß)

RMCC 9/6/2

DATE 9/6/2 **TIME** 11:45 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X ____X

OBJECT _____ **DESCRIPTION** RMCC



Observing Log

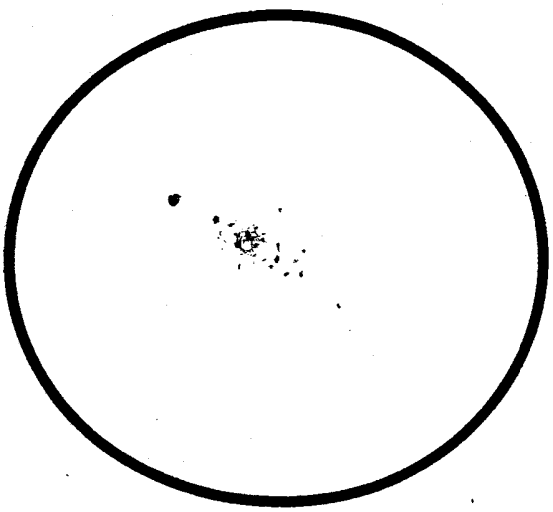
Object type: **Open Cluster**

Object ID: NGC 6520

Const.: SGR

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 4/27/4

Time 5:20 CDT

Location HOME

Seeing 8 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

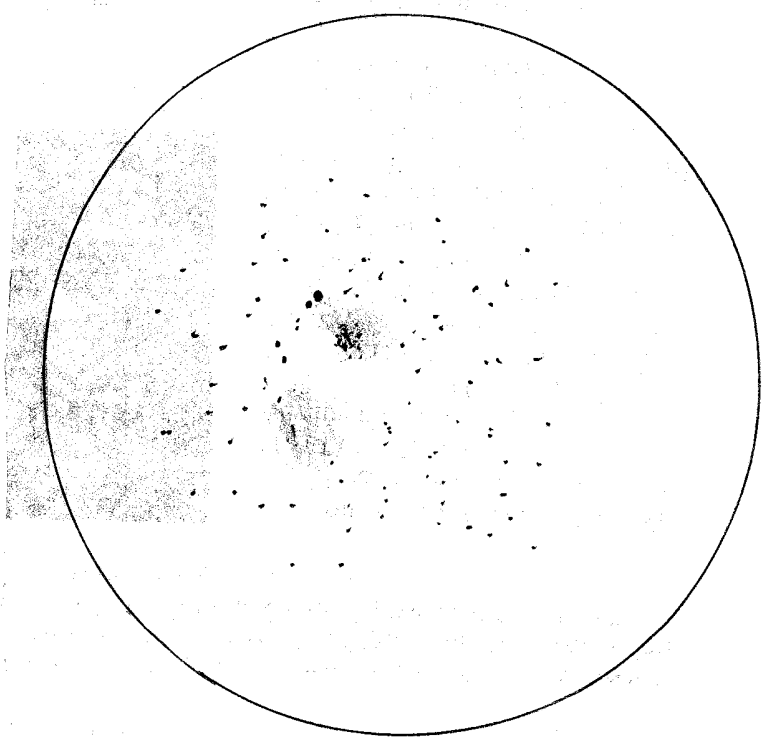
Field of view _____ **Power** 153X

[redacted]

- **Can this cluster be** very **easily distinguished from the background stars?**
- **What is the overall shape of the object?** Smog of stars w/ fuzzy glow
- **How many stars can you count in the cluster?** 20 + fuzz
- **Are the stars more concentrated in any one particular area?** Fuzz ball
- **Is this cluster resolved fully or is there some background nebulosity noticed?** A lot of
- **Is there any particular area where you notice an absence of stars in this cluster?** No
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** Yes Not really
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Nice & easy

(1999 Cole & Pratt)



NOT UPSIDE DOWN (OK AS IS)

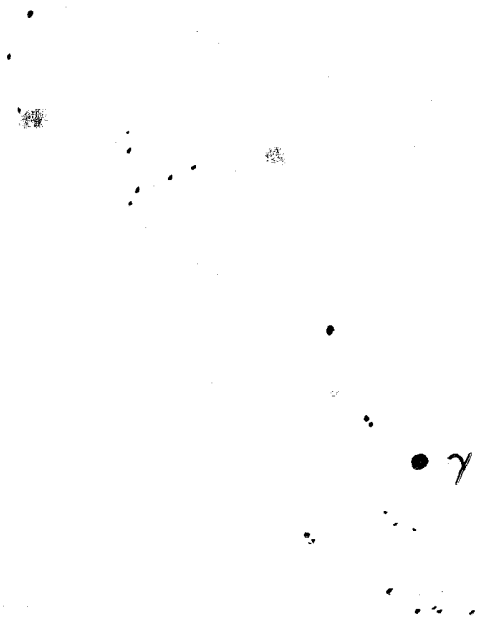
VERY NICE CLUSTER W/ SOME UNRESOLVED & ANOTHER GHOSTLY PATCH TO SOUTH

CFN#2

DATE 7/24/13 **TIME** 2105 CST CDT **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 6522 + NGC 6528 **LOCATION** RMCO HOME _____



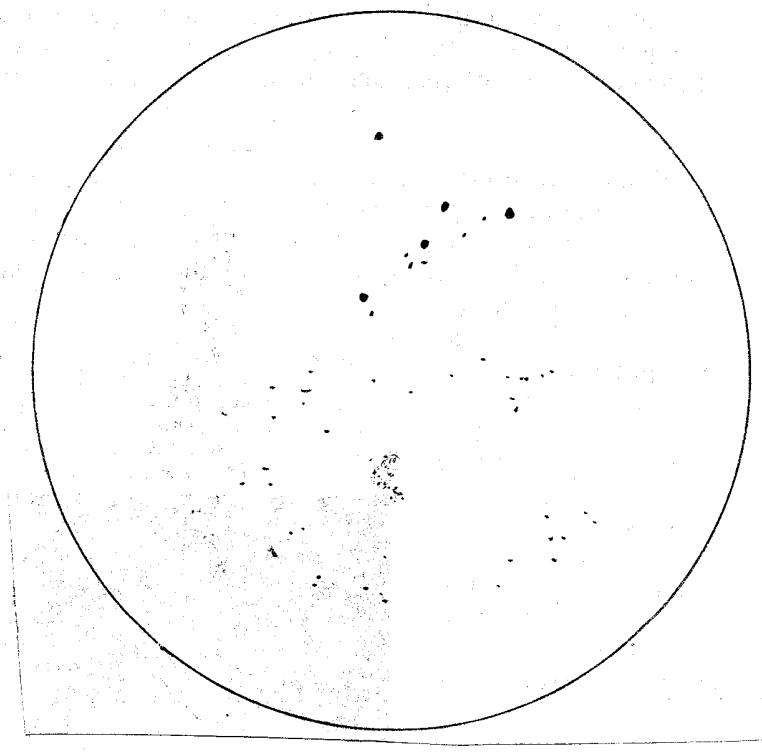
NOT UPSIDE DOWN (OK)

Several fields shown for Ima to γ

DATE 7/23/13 **TIME** 11:25 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6540 **LOCATION** (RMCC) HOME _____



OK
AJ
IS

Just 5 of plotted (T2000) asterism of 8m's.

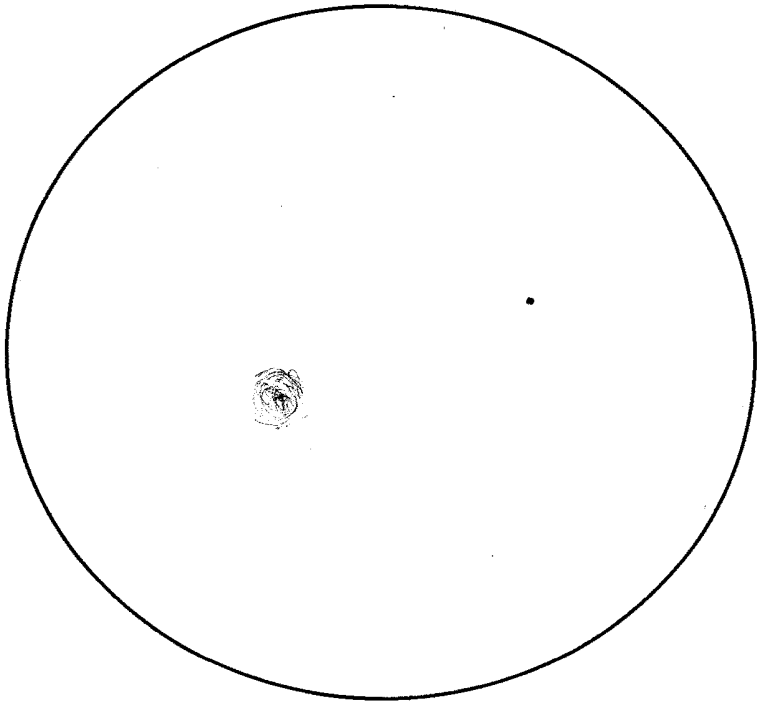
But this cluster not plot.

S&T 7/03 p88

DATE 6/9/3 **TIME** 12:20 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X (475X)

OBJECT NGC 6543 **LOCATION** RMCC (HOME) _____

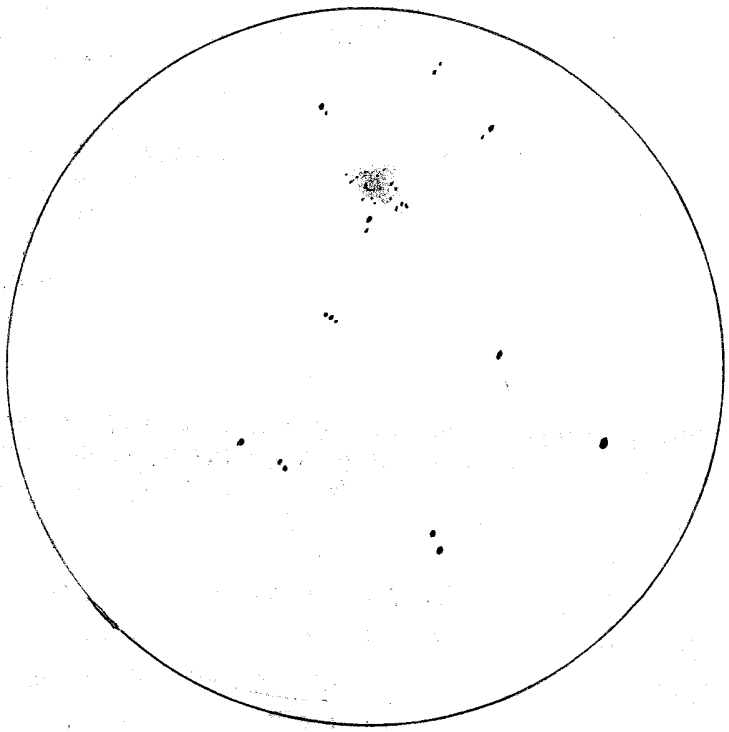


Wow! Very hard to find by star-hop - finally did & it's worth it. Very bright blue "fuzzy star" 153x easily shows neb a c.s., 475x shows very distinct ring with inner portion filled in with a "wormy" like complexion. Awesome.

DATE 7/23/3 **TIME** 11:30 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6544 **LOCATION** (RMCC) HOME _____



NOT UPSIDE DOWN (OK AS IS)

ACTUALLY 2 FIELDS – HAD TO SHOW GREAT DIM CLUSTER W/SOME RES & WEALTH OF FIELD OBJS SURROUNDING IT

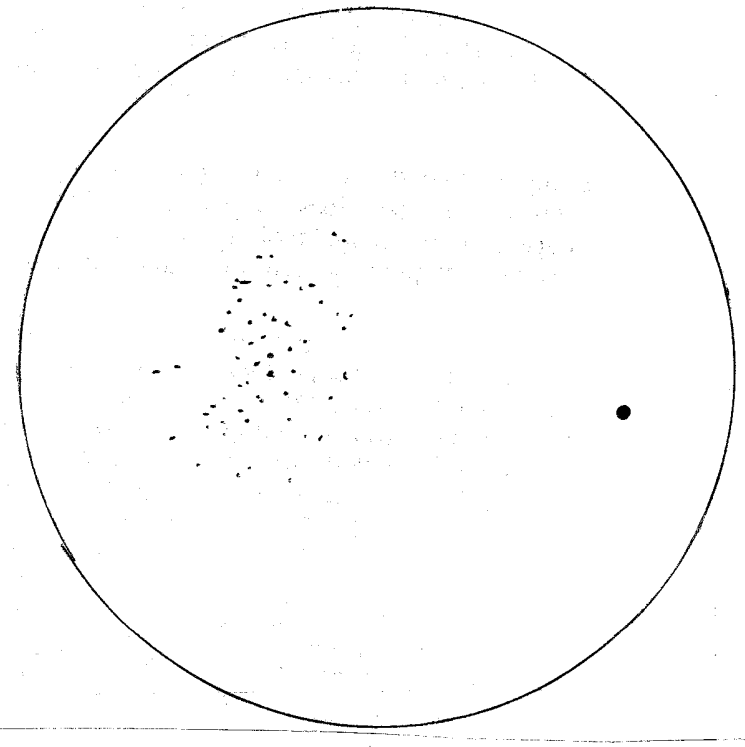
Search Results for
Constellation=SGR and Separation < arc minutes, Sorted by ra

Name	Star	RA	Dec	Comp	Mag1	Mag2	Sep	PA	U2000	Spec	Notes
HJ 2810-AB		17 49.6	-19 59	AB	7.7	10.5	40.8	189	338/ 339	A2	
HJ 4986-AB		17 50.3	-26 19	AB	8.3	11.3	10.7	226	338/ 339	B8	
HJ 4986-AD		17 50.3	-26 19	AD	8.3	12.5	27.2	61	338/ 339		
HJ 4986-AC		17 50.3	-26 19	AC	8.3	13.0	22.9	5	338/ 339		
B 359-AB		17 50.7	-29 16	AB	8.0	9.8	46.4	339	338/ 339/ 377	A2	
HWE 40-AD		17 52.2	-28 28	AD	8.0	12.0	12.5	357	338/ 339/ 377		
I 620		18 01.1	-19 58		8.1	11.7	13.5	69	339	G0	
ARG 31-AC		18 02.6	-24 15	AC	6.9	8.5	35.5	27	339		
ARA 1839		18 03.4	-22 35		8.1	11.9	11.7	44	339		
S 698-AB		18 04.2	-22 29	AB	7.9	8.8	29.6	316	339	B0	
HDO 283		18 04.8	-35 53		5.8	11.0	12.5	290	377	K0	
HJ 5012		18 05.7	-34 36		8.5	9.1	23.4	191	377	K5	
COO 223-AC		18 06.3	-34 18	AC	8.3	10.3	27.0	244	377		
HJ 592		18 06.7	-18 59		7.8	11.3	36.4	207	294/ 339	A0	
BU 243-AC		18 08.1	-22 16	AC	9.0	10.5	40.3	56	339		
V3792SGR	V3792 SGR	18 08.9	-25 28		6.4	8.4	13.3	64	339	B8	One component is a Beta Lyrae-type system.
B 379-AB		18 09.3	-26 06	AB	7.6	13.0	17.4	357	339	G0	

DATE 7/23/3 **TIME** 11:55 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6568 **LOCATION** (RMCC) HOME _____



NOT UPSIDE DOWN (OK AS IS)

Wow - large open cluster near bright - 2 flds here

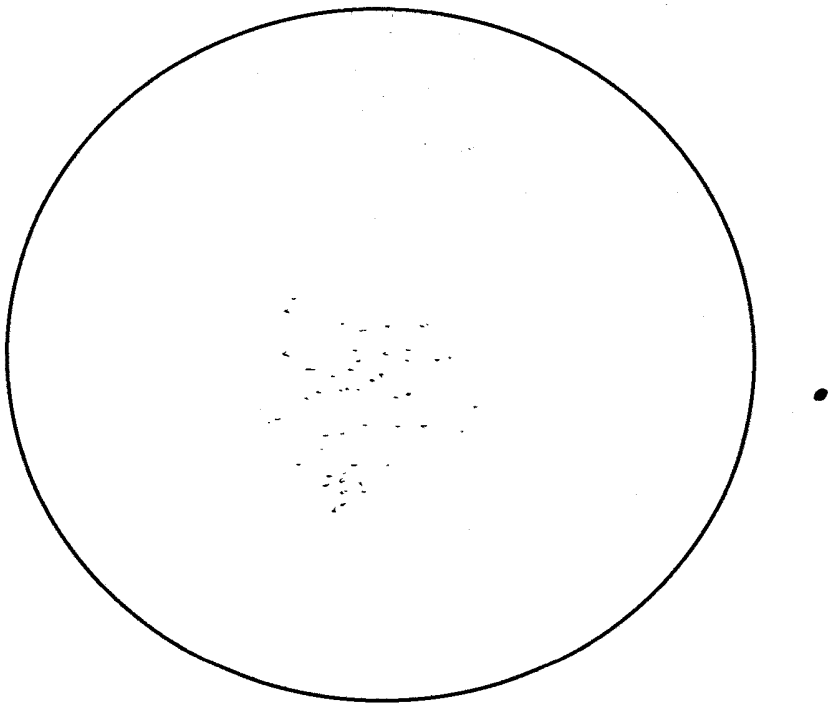
10/4/2

DATE 10/4/2 **TIME** 11:00 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 6569 **LOCATION** RMCC HOME

M



Shown what stands out from Milky Way

Other cluster (NGC 6583) looked for, may have

seen but hard to discern from M.W. & getting low.

LOCATION: HOME

DATE: 6/27 195 GMT TIMES: CST CDT

DESCRIPTION:

NGC 6568

C: I II III IV V

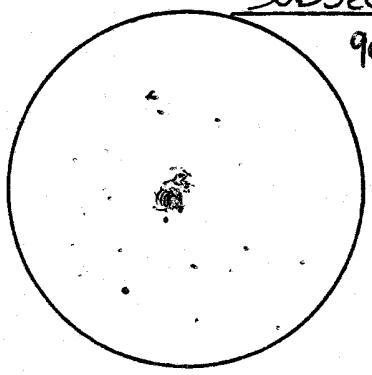
S: I II III IV V

I: EYE 10x50 4:"5 OTHER

P: 0x 10x 45x 90x 220x 440x

SUBJECT: M70

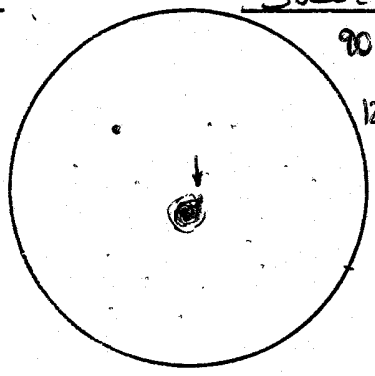
90x



SUBJECT: M54

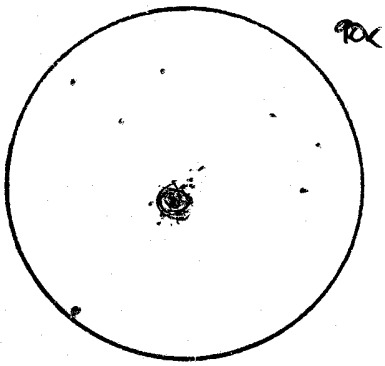
90x

12m seen on SE



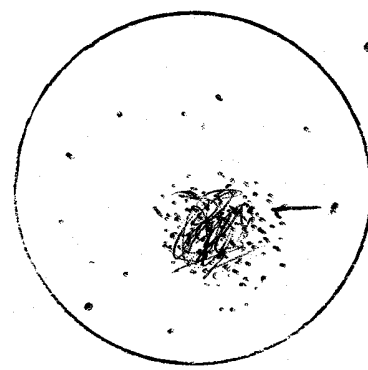
SUBJECT: M28

90x



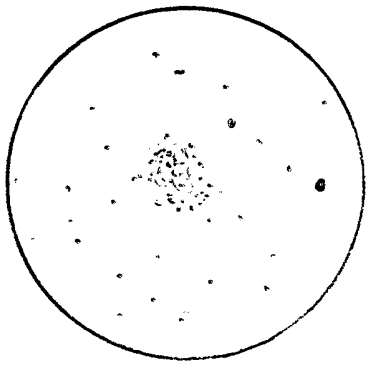
SUBJECT: M22

90x



pair

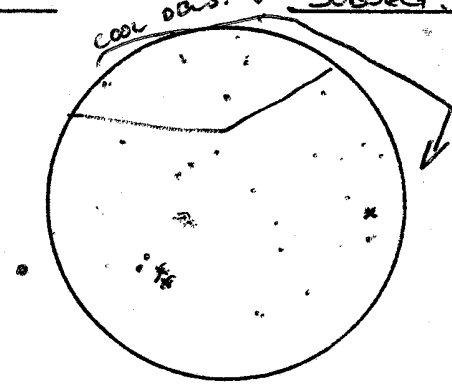
SUBJECT: NGC 6568



SUBJECT: NGC 6583

COOL OBJS!

45x

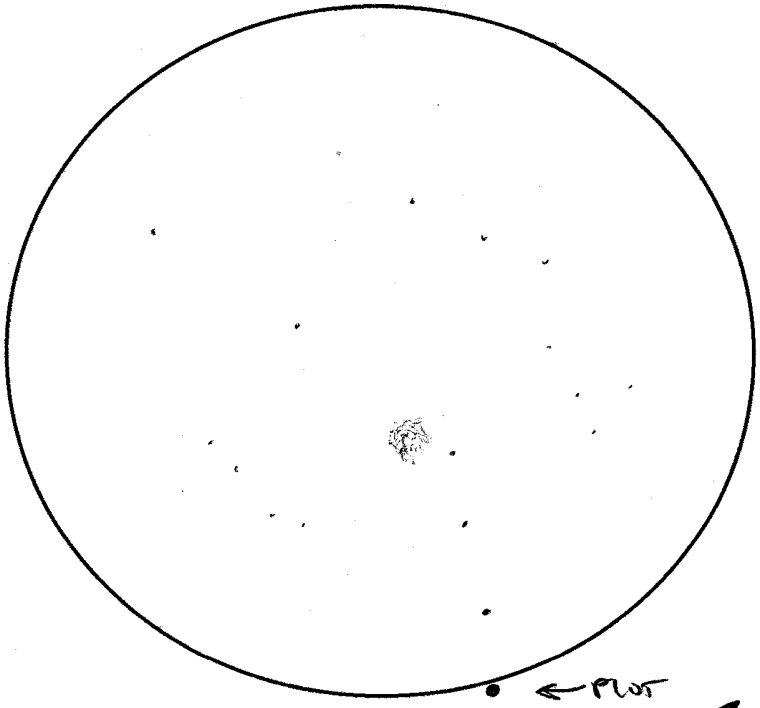


NMCC 9/6/2

DATE 9/6/2 **TIME** 0115 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X (153X) 475X

OBJECT NGC 6569 **LOCATION** NMCC



MP helps resolve it down to mag. limit nice in

LP too as a smudge w/ beginning of res.

LOCATION: PK

DATE: 6/27 and 28 TIMES: CST / CDT

DESCRIPTION:

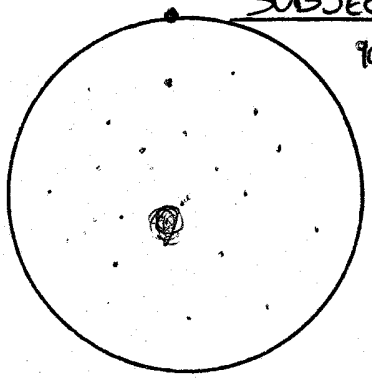
C: I II III IV V

S: I II III IV V

I: EYE 10x50 4.5" OTHER

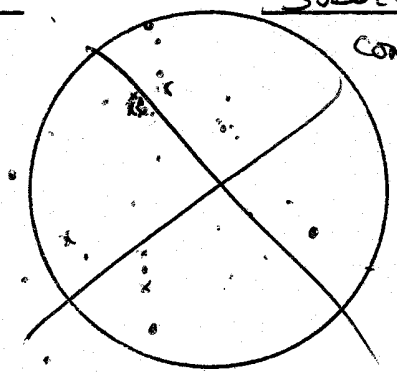
P: 0X 10X 45X 90X 220X 440X

SUBJECT: NGC 6569



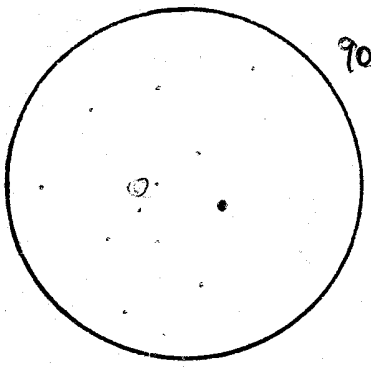
90X LOVELY BRIGHT EVEN COTTONY GLOW

SUBJECT:



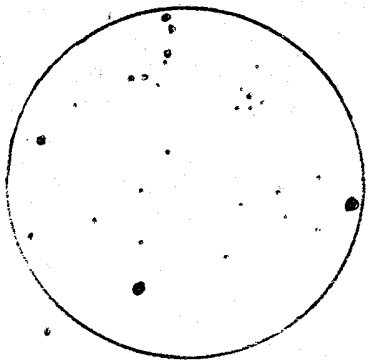
CONFIRMED OLD FIELD

SUBJECT: PN NEXT TO NOVA 1949 (?).

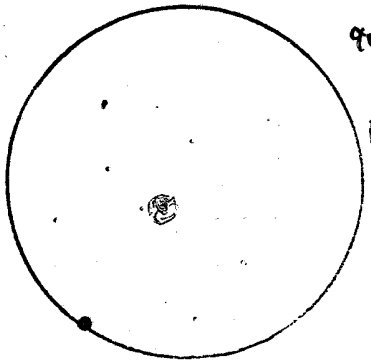


90X

SUBJECT:



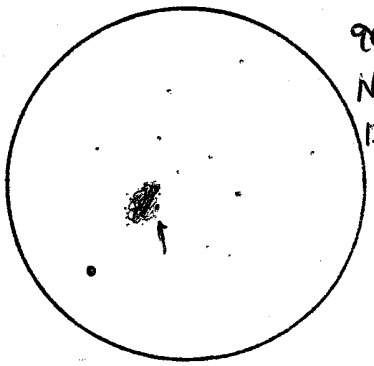
SUBJECT: NGC 6652



90X

13m on W, glimpsed

SUBJECT: M69



90X

N-S

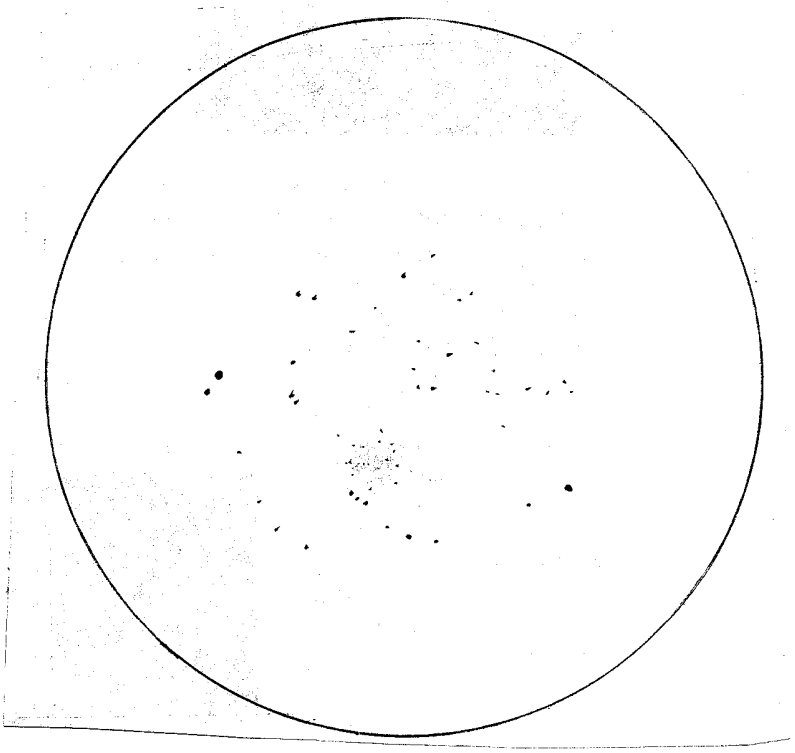
13m on E side

CFN #2

DATE 7/24/3 **TIME** 12:00 CST CDT **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6583 **LOCATION** (RMCC) HOME _____



NOT UPSIDE DOWN (OK AS IS)

NICE, A LITTLE DIM WITH LINE OF 3 UNDER IT

LOCATION: HOME

DATE: 6/27 1915 CST TIMES: CDT

DESCRIPTION:

NGC 6583

C: I II III IV V

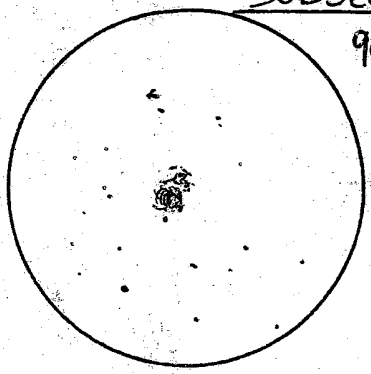
S: I II III IV V

I: EYE 10x50 4.5" OTHER

P: 0x 10x 45x 90x 220x 440x

SUBJECT: M70

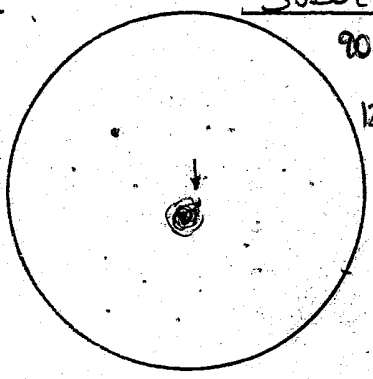
90x



SUBJECT: M54

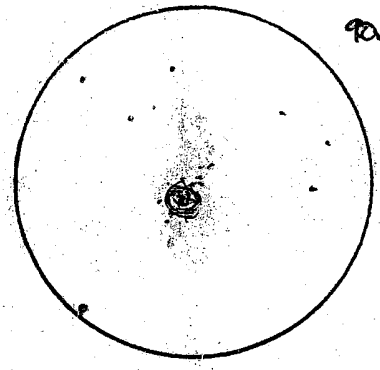
90x

12m seen on SE



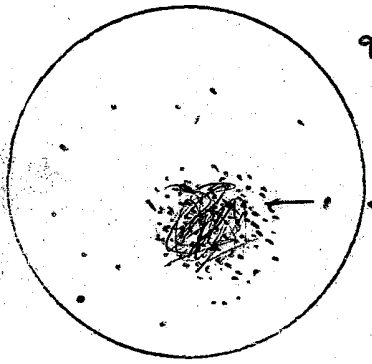
SUBJECT: M28

90x

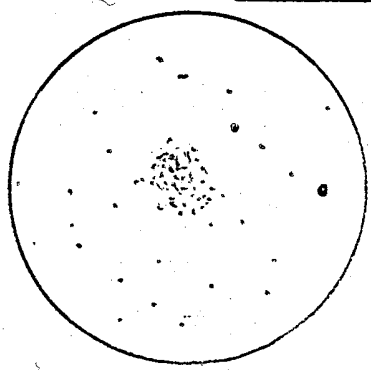


SUBJECT: M22

90x



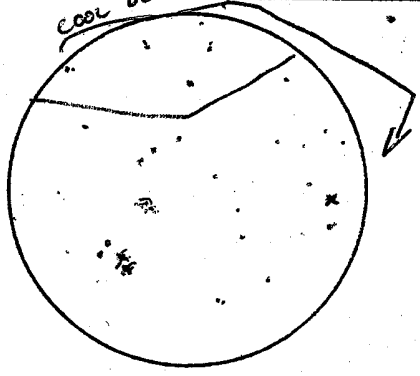
SUBJECT: NGC 5634



SUBJECT: NGC 6583

COOL DOUBLE!

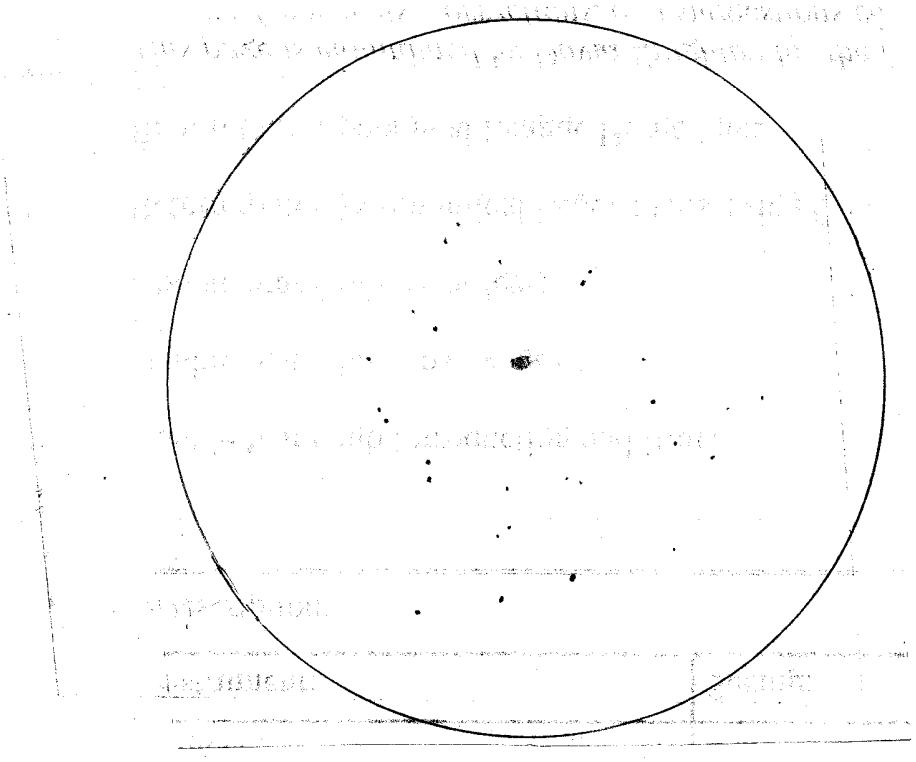
45x



DATE 7/24/3 **TIME** 12:08 CST (CDT) **CLARITY** I II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6624 **LOCATION** (RMCC) HOME _____



OK
AJ
15

SMALL BUT SEEN - NO DETAIL

DATE 6/22/3 **TIME** 12:10 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6633 **LOCATION** (RMCC) HOME _____

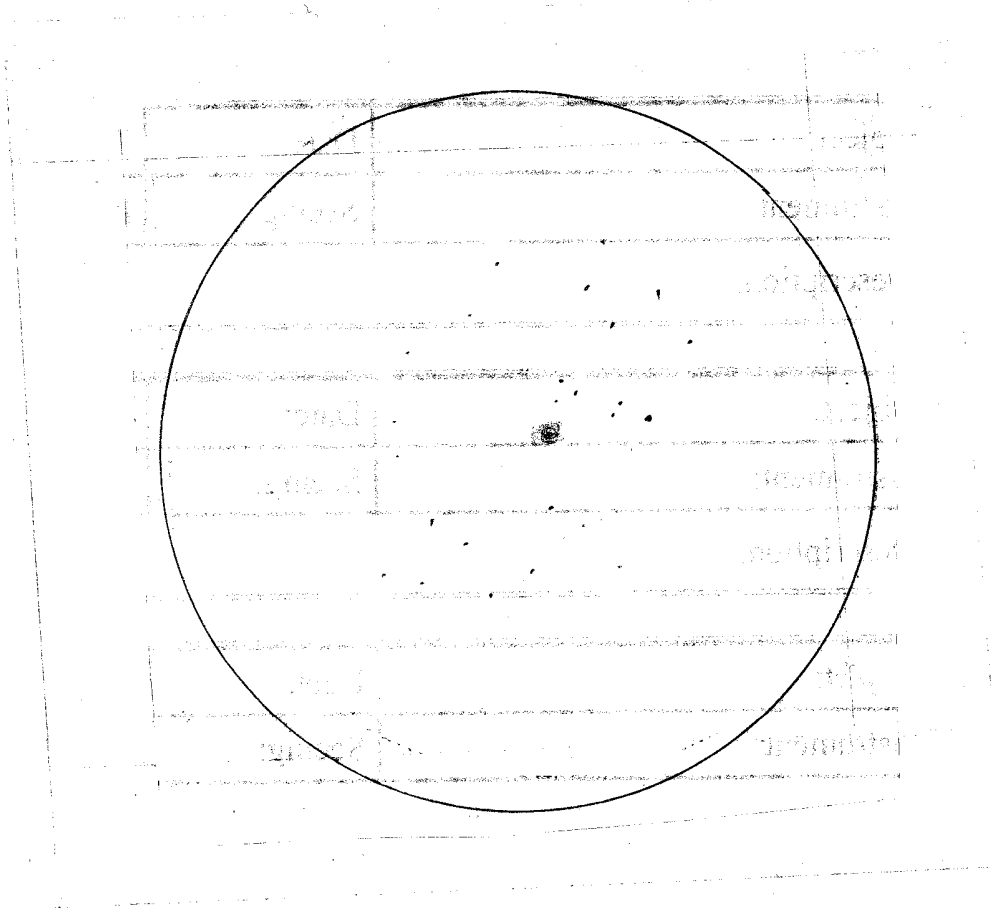


Great group, especially bright group of 6-8 8 or 9 mags that stand at (see →) I'm not sure that I've ever seen this before!!

DATE 7/24/3 **TIME** 12:12 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6638 **LOCATION** (RMCC) HOME _____



FIX IT UPSIDE DOWN

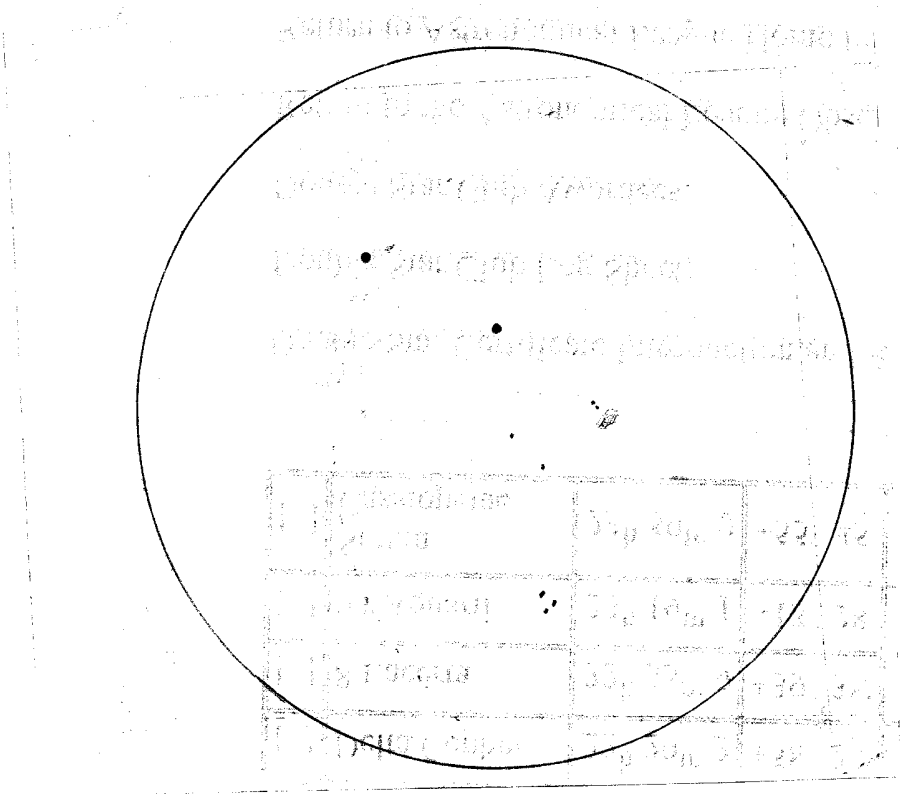
NICE FUZZ BALL W/ NUC BUT NO RES

CFN #2

DATE 7/24/13 **TIME** 12:15 CST (CDT) **CLARITY** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X ~~73X~~ 153X 475X

OBJECT NGC 6642 **LOCATION** (RMCC) HOME _____



NOT UPSIDE DOWN OK AS IS

NOT BRIGHT BUT SEEN — NO DETAIL

Observing Log

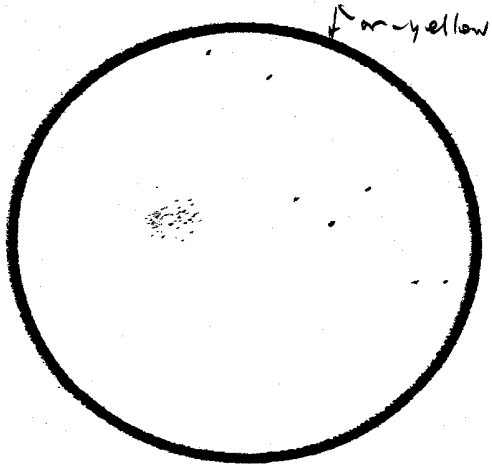
Object type: **Open Cluster**

Object ID: NGC 6645

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 8/24/03

Mag: _____ **Size:** _____ **Time** 11:10 CDT



Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125 mm

Eyepiece 26 mm

Field of view _____ **Power** 73X

- **Can this cluster be easily distinguished from the background stars?** Yes
- **What is the overall shape of the object?** fairly round
- **How many stars can you count in the cluster?** ~ 40
- **Are the stars more concentrated in any one particular area?** west side
- **Is this cluster resolved fully or is there some background nebulosity noticed?** west side not fully
- **Is there any particular area where you notice an absence of stars in this cluster?** not much
- **Are there any particularly bright stars involved in this cluster? If so, do they show any colors?** one near middle (~10m) no
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description _____

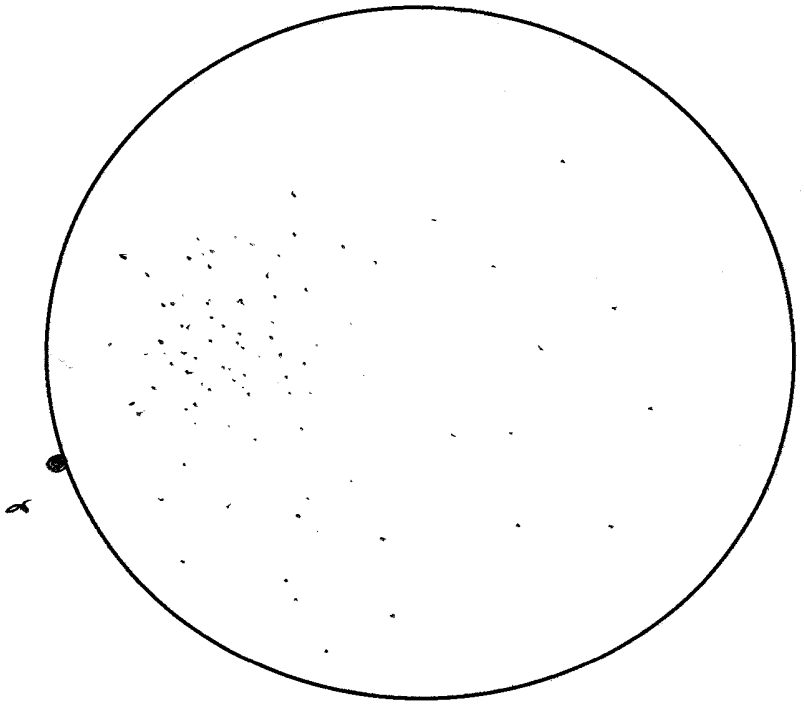
(1999 Cole & Praut)

RMCC 9/2/2

DATE 9/2/2 **TIME** 8:45 CST (CDT) **CLARITY** I II III IV V **SEEING** I II III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X 73X 153X 475X

OBJECT NGC 6664 **LOCATION** RMCC



Wonderful - seen many times before -

about 25-50 stars E of α Scu

Observing Log

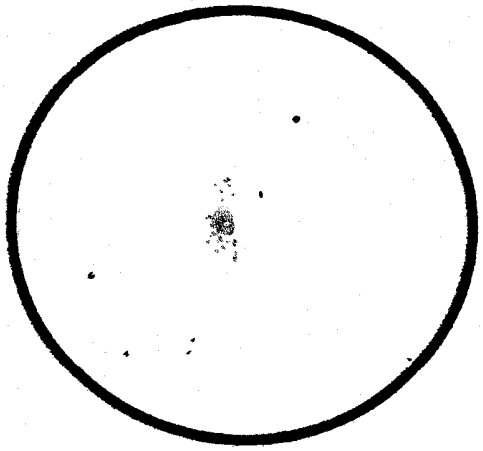
Object type: **Globular Cluster**

Object ID: NGC 6712

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 8/24/03

Time 11:00 CDT

Location RMCC

Seeing 6 **Transparency** 3

Instrument ETX 125

Size 125mm

Eyepiece 26mm

Field of view _____ **Power** 73X

- **Can this cluster be seen with direct vision, or is averted vision required?**
- **Is the core unusually bright, compact or not distinguishable?**
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?**
- **Is any mottling visible?**
- **Can the edges be resolved?**
- **Are there any other deep-sky objects in the same field of view? If so, what?**

SEE NEXT PAGE

Description _____

(1999 Cole & Prust)

Observing Log
Object type: Globular Cluster

Object ID: NGC 6712 / IC 1298

Const.: _____ **Observer** BY

RA: _____ **Dec.:** _____ **Date** 8/24/03

Mag: _____ **Size:** _____ **Time** 11:03 CDT

Location RMCE

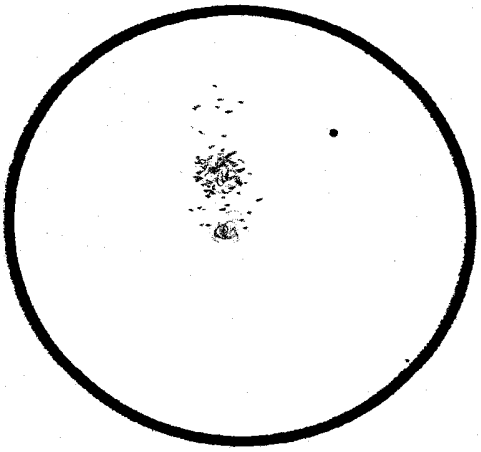
Seeing 6 **Transparency** 3

Instrument 125mm

Size 125mm

Eyepiece 12.4mm

Field of view _____ **Power** 153x + N.F.



- **Can this cluster be seen with direct vision, or is averted vision required?** GVB PN
- **Is the core unusually bright, compact or not distinguishable?** Both
- **Is this globular cluster highly or loosely concentrated?**
- **Is any part of the cluster resolved into stars?** Yes - nearly throughout
- **Is any mottling visible?** Yes
- **Can the edges be resolved?** Yes
- **Are there any other deep-sky objects in the same field of view? If so, what?** IC 1298

Description N.F. brings out p.n. which may have had 12-13m c.s. but doesn't help glob & vice versa.

Whole scene is stunning & very very subtle.

Difference in "glow" at pn is also apparent.

(1999 Code & Print)

Burnham lists as IC 1298 0.4 ESE of NGC 6712 = 24' cluster = 3' ϕ & neb = 1.2'x1' — ???

LOCATION: [illegible]

DATE: 6/28 TIMES: CST CDT

DESCRIPTION:

C: I II III IV V

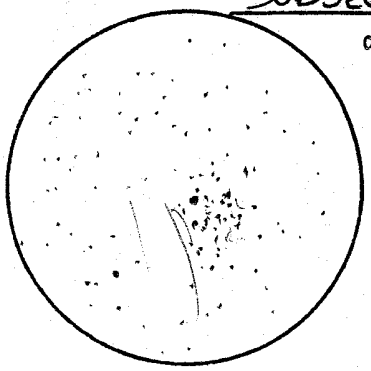
S: I II III IV V

I: EYE 10x50 4.5" OTHER

P: 0X 10X 45X 90X 220X 440X

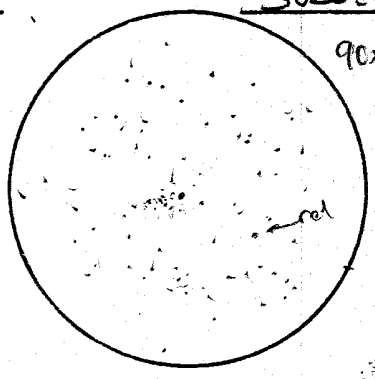
SUBJECT: M26

90x



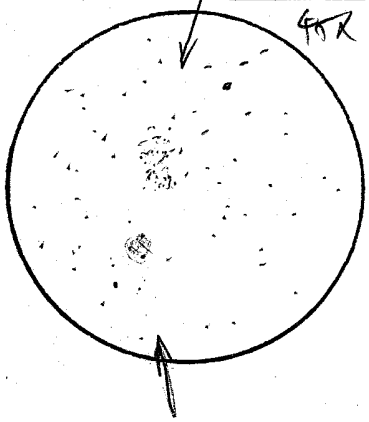
SUBJECT: NGC 6704

90x



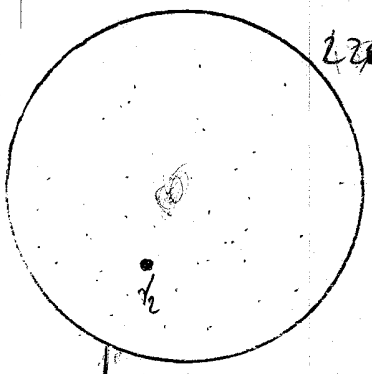
SUBJECT: NGC 6712 & IC 1295

44X

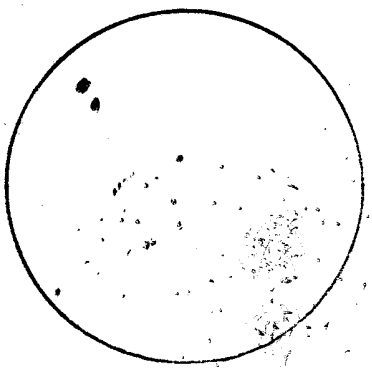


SUBJECT: NGC 6717

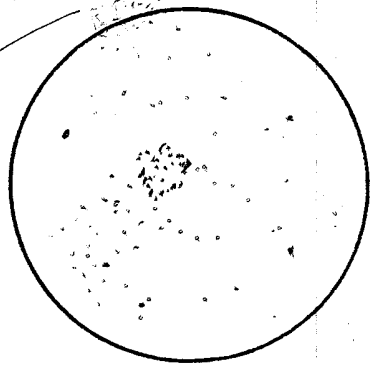
220X



SUBJECT: DBL, ATC. NGM



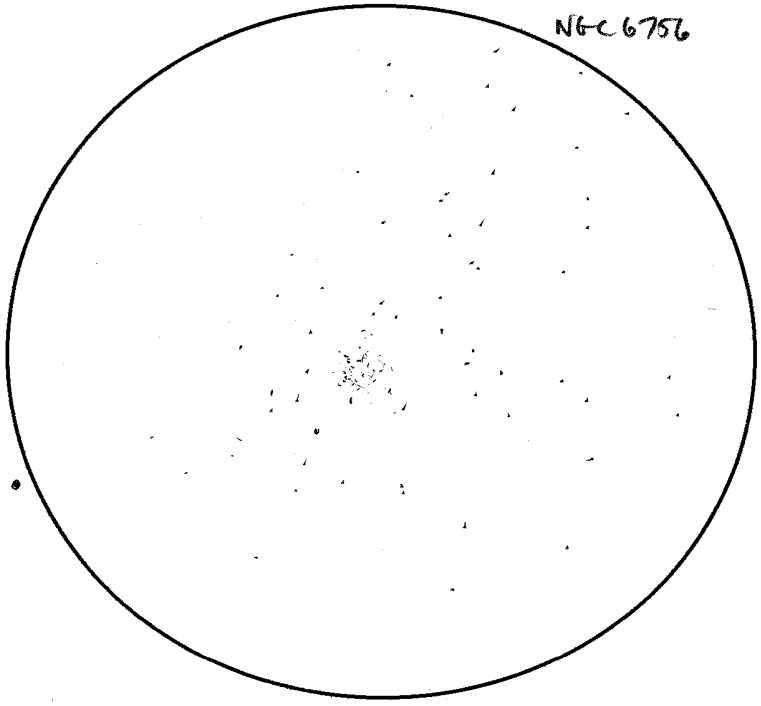
SUBJECT: NGC 6716 + Col 394



DATE 9/27/2 **TIME** 9:25 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT ETX-125 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6755 **LOCATION** (RMCO) HOME _____

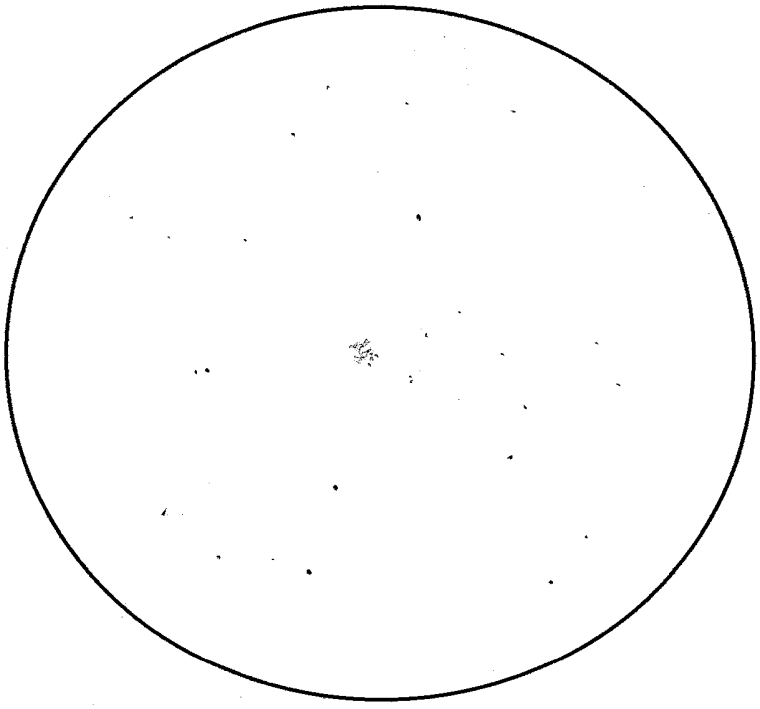


A LITTLE HARD TO PICK OUT FROM RICH BACKGROUND

DATE 9/7/12 **TIME** 9:35 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (ETX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT NGC 6756 **LOCATION** (RMCC) HOME _____



or Aur
4° up
9:37 pm

PBL TO W, BARELY RES. 10– STARS

ALMOST IN SAME FIELD AS PREVIOUS

Observing Log

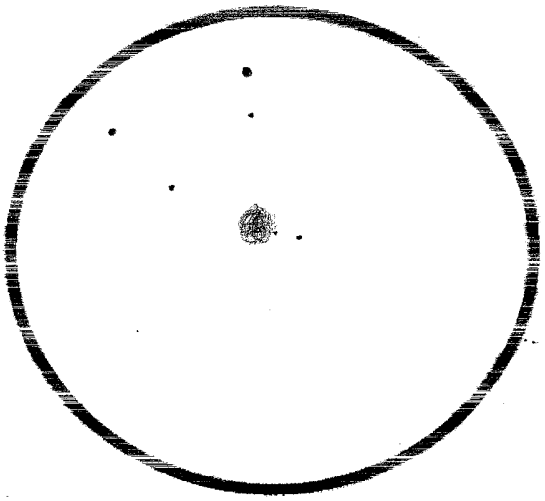
Object type: **Planetary Nebula**

Object ID: NGC 6781

Const.: Aql

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer B Young

Date 6/25/16

Time 12:10

Location Rnce B=+4

Seeing II **Transparency** II

Instrument XT12

Size 12" f/5

Eyepiece 10mm

Field of view _____ **Power** 150 X

WBNF

D=28d (not up)

- **What is the overall shape?** Disk
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** Grey
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** Fairly
- **Is the center brighter, darker, or the same brightness as the edges?**
- **Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Gravity

Hole ?

AV brings out great details!

No detail @36x

Use filter

D-A=no

No C.S.

Description _____

(1999 Cole & Pratt)

Observing Log

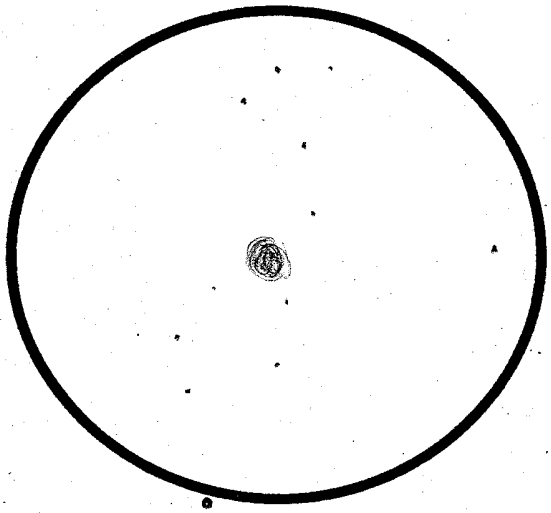
Object type: **Planetary Nebula**

Object ID: NGC 6781

Const.: _____

RA: _____ **Dec.:** _____

Mag: _____ **Size:** _____



Observer BY

Date 6/23/4

Time 2:20 CDT

Location RMCC

Seeing 9 **Transparency** 5

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ **Power** 153x

w/n filter

- **What is the overall shape?** Round
- **Is this planetary easy or difficult to identify in your field?**
- **What is the color of this planetary?** Grey-hint of green
- **Is it disk-shaped or is it more stellar in appearance?**
- **Are the edges of the disk sharp or diffuse?** Fairly
- **Is the center brighter, darker, or the same brightness as the edges?** Slightly
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Note: 5 meteors in 10 min break — 3 Agrids, 2 Bootids

Coathanger visible & nearly resolved naked eye!

Don't forget Comet KH(?) in Dra

w/ KC's 11" DOB

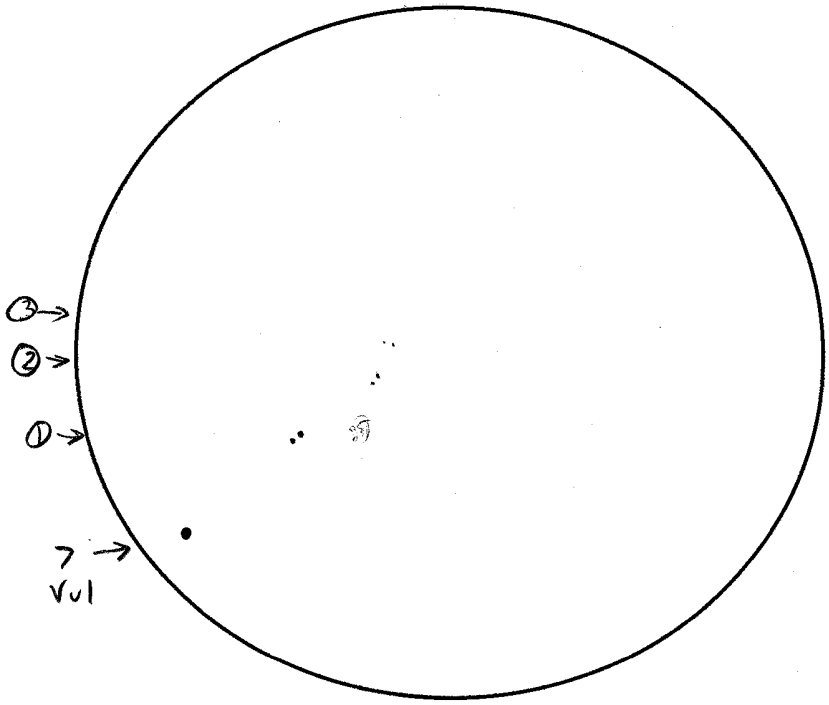
(1999 Cole & Pratt)

DATE 9/27/12 **TIME** 9:55 CST (CDT) **CLARITY** I (II) III IV V **SEEING** I (II) III IV V

INSTRUMENT (RTX-125) 10x50 EYE **POWER** 10X (73X) 153X 475X

OBJECT M-C 6802 **LOCATION** RMCC

19h20–
19h40
+19–21°



FAINT CLOUDY SMUDGE FRAMED BY COOL DBLS

(1) NO WDS! NO ETCHER, NO WEBB

(2) NO WDS! NO ETCHER, NO WEBB

(3) NO WDS, ETCHER, WEBB