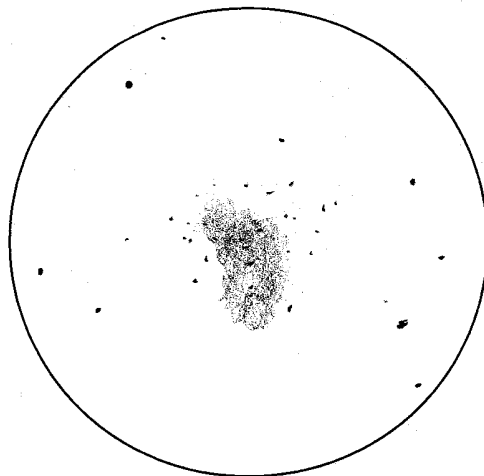


## Bright Nebulae Observing Program Log

Observer's Name B Y

Object: <u>M1</u>	Location: <u>ACT</u>
Date: <u>9/1/13</u>	Time: <u>9:10 yr</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of site: <u>B 4.5</u>	Moon phase: <u>&gt; LQ (30° away)</u>
Instrument: <u>22" VC</u>	Eyepiece & Magnification: <u>10mm / 240x</u>
Device-aided? <u>y</u>	Filters: <u>none / o3 / ntc</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>1</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: \_\_\_\_\_

M1

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

MORE THAN MOST

Are there stars embedded in the nebula? {Yes / No} How many?

NOT OUR LOOK "FORE GROUND"

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

FAIRLY, SOME AREAS OF UPPER BACK OF CRAB ARE FAINTER

What is the shape and size of the nebula?

CRABON IT'S SIZE

D

How does the nebula respond to different filters and magnifications? Circle / # combos:

24mm

10mm

w/2x

03

UHC

WB

US

0

035

0 Δ

MAKES IT DISAPPEAR!

0 ▽

NOT GOOD

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

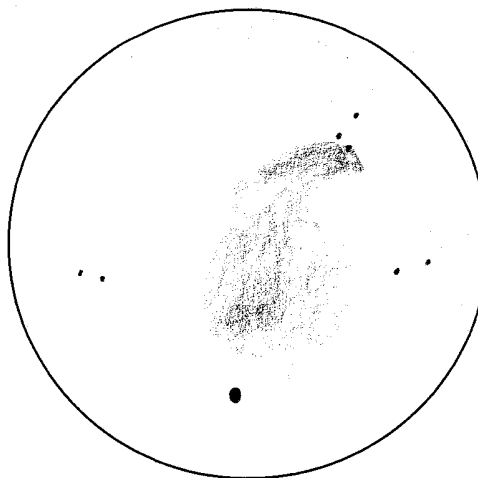
NO

## Bright Nebulae Observing Program Log

Observer's Name B Y

Object: <u>IC 5366</u>	Location: <u>ACT</u>
Date: <u>9/7/13</u>	Time: <u>3:10</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of site: <u>B 4.5</u>	Moon phase: <u>1D</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/10 100x/</u>
Device-aided? <u>Y</u>	Filters: <u>N/A UHC US</u>
Direct or <u>Averted Vision?</u>	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 5366

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

VERY AMORPHOUS

Are there stars embedded in the nebula? {Yes / No} How many?

JUST BULBO STARS

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

! v. Faint!

What is the shape and size of the nebula?

SL. SHAPE OR

How does the nebula respond to different filters and magnifications? Circle / # combos:

24mm

10mm

w/2x

O3

UHC

WB

715

24 + A or V perhaps best  
10 makes too small

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

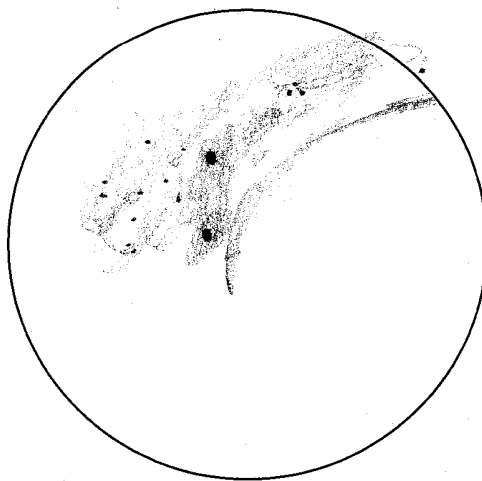
No

# Bright Nebulae Observing Program Log

Observer's Name B York

Object: <u>N7635</u>	Location: <u>ACT</u>
Date: <u>9/7/13</u>	Time: <u>7:30</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of site: <u>B4.5</u>	Moon phase: <u>—</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/10</u> <u>100/240</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N 7635

Does the edge of the nebula stand out clearly from the background or fade to left  
away without sharp boundaries? {Circle One}

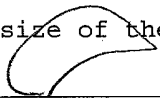
Somewhat on lower right

Are there stars embedded in the nebula? {Yes/ No} How many?

Yes 2 w/ neb

Is the nebula a uniform glow or uneven, with bright Some patches or dark lanes?  
{Circle One}

What is the shape and size of the nebula?



How does the nebula respond to different filters and magnifications?  
Circle / # combos:

24mm 10mm w/2x O3 UHC WB O3

□+▽ need darker skies

Is the object visible by direct vision or does it require use averted vision?  
{Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

M52 nearby

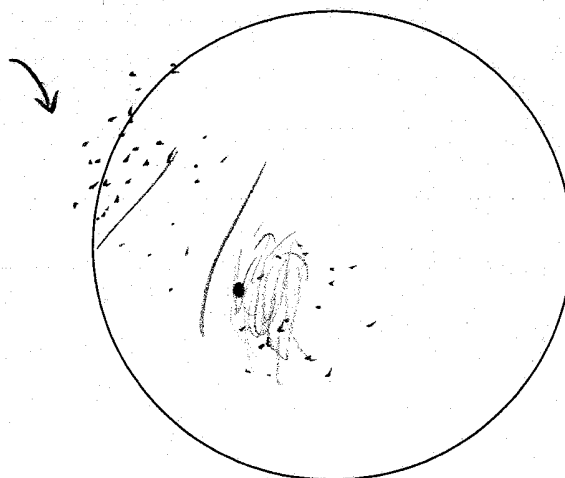
# Bright Nebulae Observing Program Log

Observer's Name BY

Object: <u>LBN 26</u>	Location: <u>O-T</u>
Date: <u>9/29/13</u>	Time: <u>2:05</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B1</u>	Moon phase: <u>—</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24</u>
Device-aided? <u>1</u>	Filters: <u>N/A</u>
<input checked="" type="checkbox"/> Direct or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)

JUST E OF M8  
SEP. BY DN



OBJECT: LBN 25

Does the edge of the nebula stand out clearly <sup>W</sup> from the background or <sup>E</sup> fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

1 BRIGHT, MANY DIM

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

NEAR MAIN STAR

What is the shape and size of the nebula?

OVAL 15'

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

DIDN'T TRY

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

M8 ON W EDGE

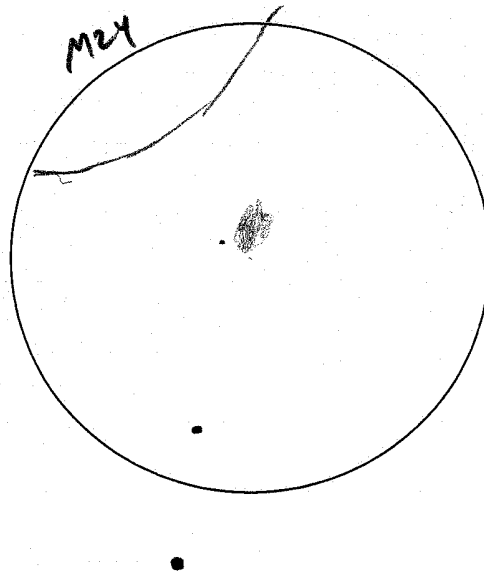


# Bright Nebulae Observing Program Log

Observer's Name B Y

Object: <u>LBW 52</u>	Location: <u>0 - T</u>
Date: <u>9/29/13</u>	Time: <u>3:15</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>1</u>	Moon phase: <u>-</u>
Instrument: <u>22x6</u>	Eyepiece & Magnification: <u>22 100x</u>
Device-aided? <u>Y</u>	Filters: <u>None</u>
<u>Direct or Averted</u> Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: LBW 52

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One} (1)

Are there stars embedded in the nebula? {Yes / No} How many?

10

Is the nebula a uniform glow or (uneven) with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

SMALL, RANDOISH

How does the nebula respond to different filters and magnifications?

Circle / # combos: (24mm) 10mm w/2x O3 UHC WB US

Is the object visible by (direct vision) or does it require (averted vision)? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

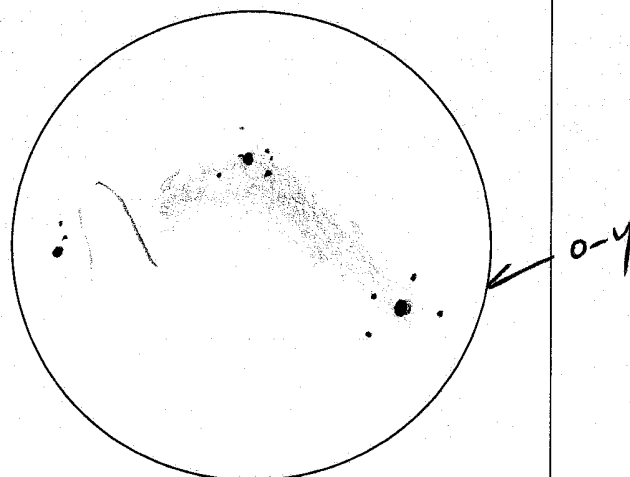
M24 on S edge

# Bright Nebulae Observing Program Log

Observer's Name B Y

Object: <u>Sh 2-82</u>	Location: <u>O-T</u>
Date: <u>7/29/13</u>	Time: <u>5:40 AM</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10mm 240x</u>
Device-aided? <u>Y</u>	Filters: <u>None B635</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: B Y

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Yes -  $\Delta$  of them - see sketch

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Best near middle star

What is the shape and size of the nebula?

Try to see  $\Delta$  but W side cut by DN

How does the nebula respond to different filters and magnifications? Circle / # combos:

24mm 10mm w/2x  $\Delta$  O3  $\nabla$  UHC WB US



BEST w/NO FILTER

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

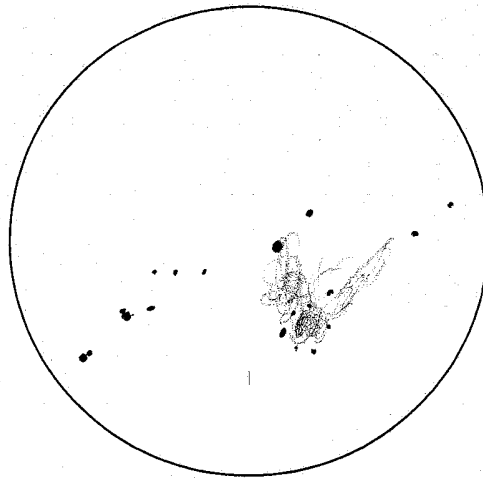
Triangle of fis,

## Bright Nebulae Observing Program Log

Observer's Name B 7

Object: <u>IC 4954</u>	Location: <u>O-T</u>
Date: <u>9/29/13</u>	Time: <u>5:50</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>—</u>
Instrument: <u>22VC</u>	Eyepiece & Magnification: <u>10 / 240x</u>
Device-aided? <u>Y</u>	Filters: <u>None = Best</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 4954

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes/ No} How many?

Circle + One bright  
Possibly over to 2 on SE?

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

↓  
near bright star  
semi-bright in "bright" (circle)

What is the shape and size of the nebula?

Circle = <10', extends to 20'

How does the nebula respond to different filters and magnifications? Circle / # combos:

24mm 10mm w/2x OS UHC WB US

↑  
No, no more  
best

Is the object visible by direct vision or does it require use averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

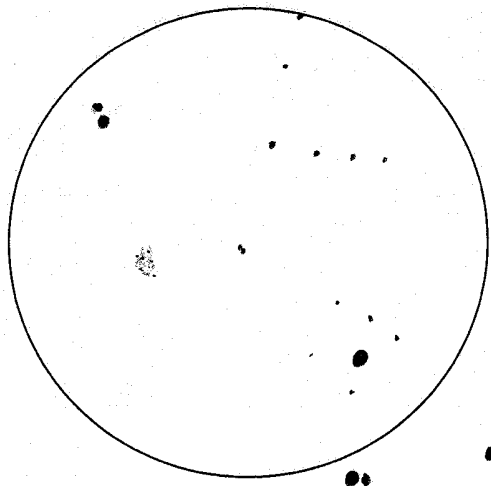
No

## Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>DWB 111</u>	Location: <u>O-T</u>
Date: <u>9/29/13</u>	Time: <u>6:10</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10 / 240x</u>
Device-aided? <u>Y</u>	Filters: <u>none = best</u>
Direct or Averted Vision? <u>(Averted)</u>	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: OWB 111

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

5 v. faints

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

tiny, round

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm ☒ 10mm w/2x ☒ D3 ☒ UHC WB US

☒ best others this one

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No



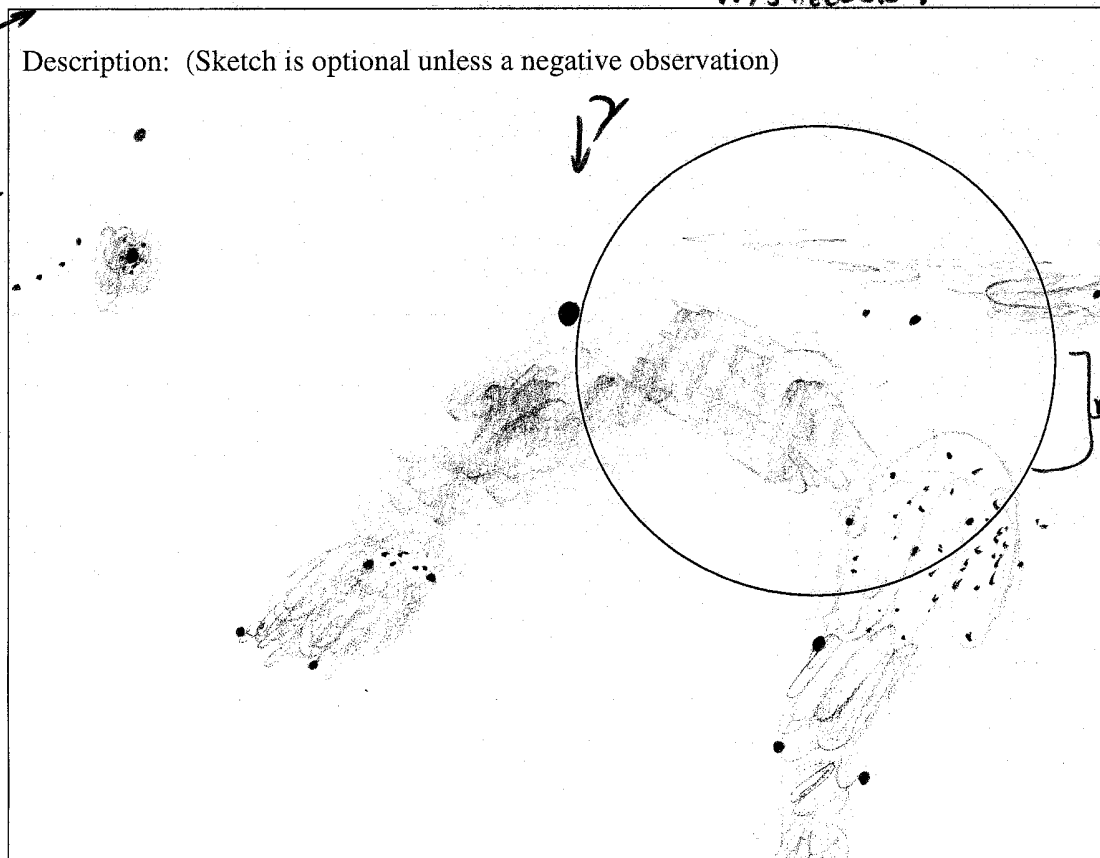
# Bright Nebulae Observing Program Log

Observer's Name \_\_\_\_\_

Object: 1C 1318	Location: O-T
Date: 9/29/13	Time: 6:30 - 7:00
Seeing: II	Transparency: I
Darkness of site: B+1	Moon phase: -
Instrument: 22 VC	Eyepiece & Magnification: 24/100X
Device-aided? 7	Filters: None = best
Direct or Averted Vision?	Nebula Brightness: 2

W/SHOWN!

Description: (Sketch is optional unless a negative observation)



OBJECT: \_\_\_\_\_

IC1318

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Some

Most

Are there stars embedded in the nebula? {Yes / No} How many?

1st gap:

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

HUGE

How does the nebula respond to different filters and magnifications? Circle / # combos:

24mm

10mm

w/2x

O3

UHC

WB

US

DIDN'T TRY FILTERS ON POWER

BEST

W/2x O3

Is the object visible by direct vision or does it require averted vision? {Circle One}

Use

What else is visible in the field (clusters, bright stars, other bright nebula)?

M29 + N

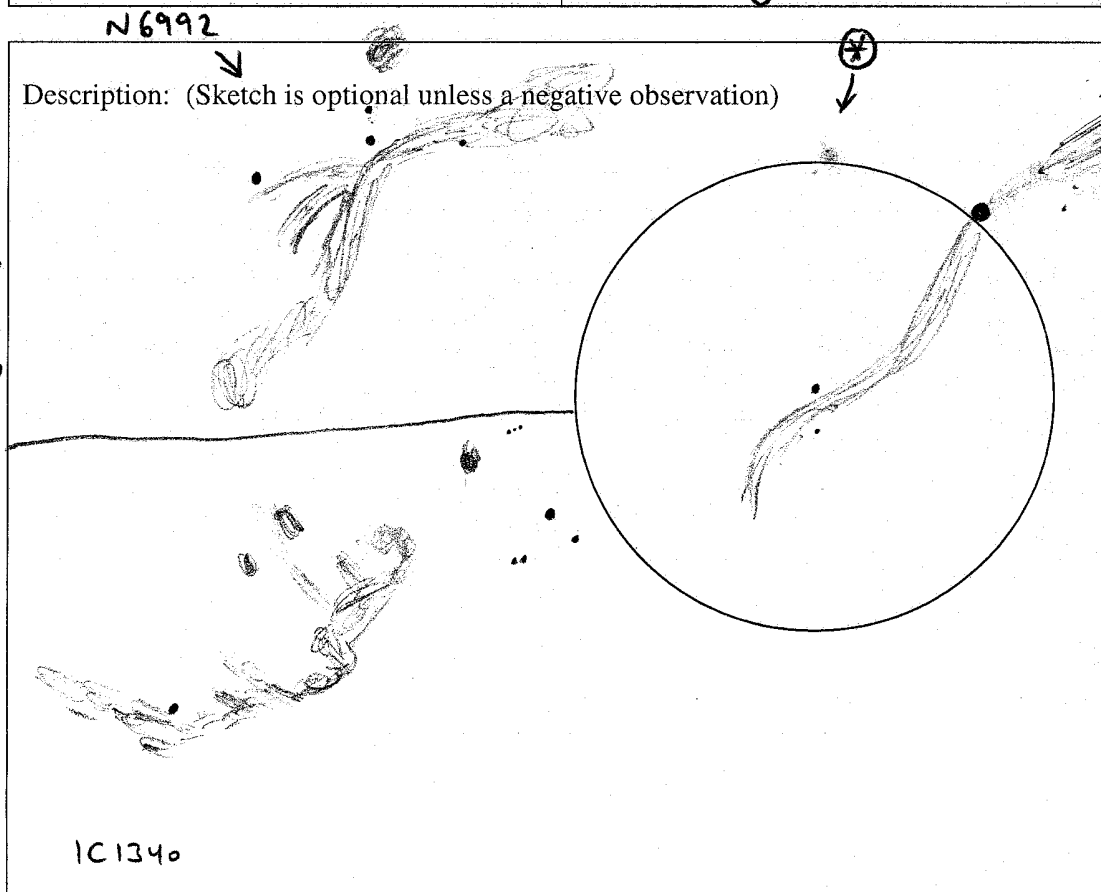
+ D0 D2

+

# Bright Nebulae Observing Program Log

Observer's Name B 70-MB

Object: <sup>6960</sup> NGC 6992/GMS+	Location: <u>O-T</u>
Date: <u>9/30/13</u> <u>1C1340</u>	Time: <u>2:10-2:40 UT</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/10</u> <u>100/240</u>
Device-aided? <u>Y</u>	Filters: <u>NB/03/04C</u> <u>USE</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>



⊗ - SMALL PORTION OF PICKERING'S  
TRIANGLE SEEN IN AREA

OBJECT: N 6992/6995 + 6960 + 101340

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

some  
interior  
areas

Are there stars embedded in the nebula? {Yes / No} How many?

Famous one on brightest line

Is the nebula a uniform glow or uneven with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Enormous halo

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

☐ BEST FOR  $\Delta$  HELPS BRING OUT MORE  
& MOST OF WEST & CENTRAL  $\Delta$

☐ BEST FOR ROPE @ WEST SHOWS ROPE MORE THING.

Is the object visible by direct vision or does it require averted vision? {Circle One}

use  
on  
interior areas

What else is visible in the field (clusters, bright stars, other bright nebula)?

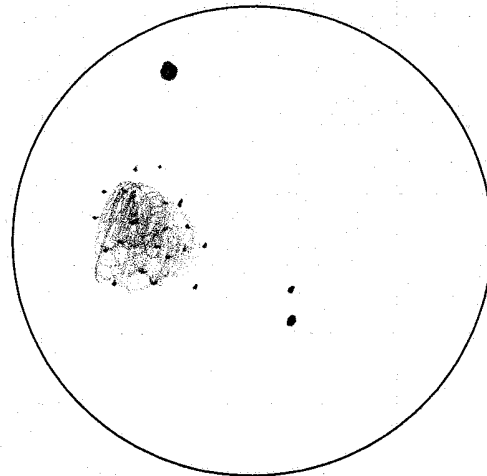
None

## Bright Nebulae Observing Program Log

Observer's Name B Yane

Object: <u>IC 5146</u>	Location: <u>O-T</u>
Date: <u>9/30/13</u>	Time: <u>3:15 UT</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>—</u>
Instrument: <u>22 UC</u>	Eyepiece & Magnification: <u>25/10 100/240</u>
Device-aided? <u>Y</u>	Filters: <u>None is best</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 5146

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Yes - 25+

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

band - 12'

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm U w/2x O3 UHC WB US

U best filter no help

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

①6

right thru 240x view

## Bright Nebulae Observing Program Log

Observer's Name B Y

Object: <u>M16 + IC4703</u>	Location: <u>O T</u>
Date: <u>9/30/13</u>	Time: <u>2:20-2:45</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>1</u>	Moon phase: <u>25D</u>
Instrument: <u>22</u>	Eyepiece & Magnification: <u>24</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>1</u>

Description: (Sketch is optional unless a negative observation)

10mm w/UHC:



24mm w/UHC



OBJECT: B 7 (M16)

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

set off by bn

smallest  
SE end

Are there stars embedded in the nebula? {Yes / No} How many?

Tons

Is the nebula a uniform glow or uneven with bright patches or dark lanes? {Circle One}

Brilliant patches & every "shade" of DN to set  
apart

What is the shape and size of the nebula?

$\approx 1^\circ$  "Mushroom" of Eagle w/spread wings

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

D + V best O3 no better

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

1st cluster

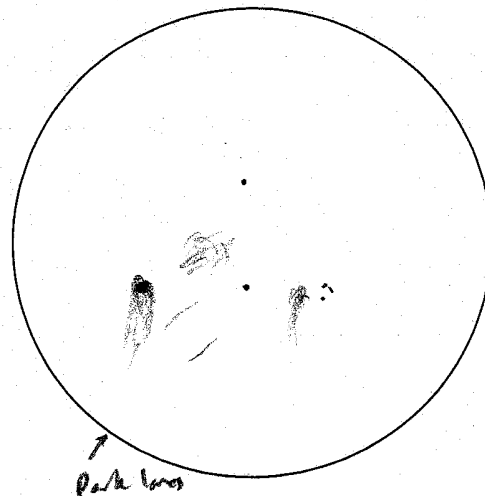


# Bright Nebulae Observing Program Log

Observer's Name B Yane

Object: <u>LBN 70</u>	Location: <u>O-T</u>
Date: <u>9/30/13</u>	Time: <u>3:40</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>—</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10 / 240x</u>
Device-aided? <u>Y</u>	Filters: <u>U4C</u>
Direct or Averted Vision? <u>Averted</u>	Nebula Brightness: <u>5</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: LBW 70

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? Yes / No} How many?

1

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Patchy, small

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm 1 w/2x O3 UHC WB US

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

N/A

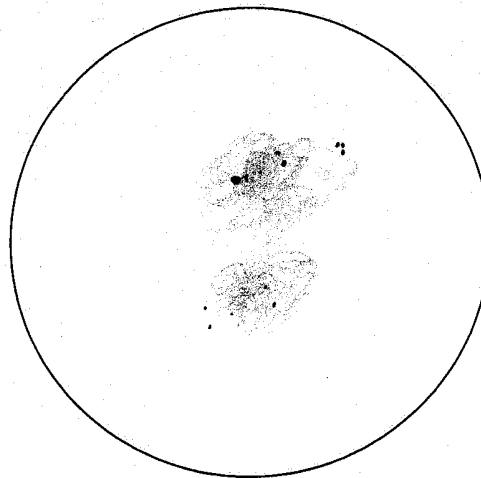
## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>N896 IC1805 + 15<sup>Mer</sup></u>	Location: <u>O-T</u>
Date: <u>9/30/13</u>	Time: <u>4:00</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10/240x</u>
Device-aided? <u>y</u>	Filters: <u>use UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)

Almost look connected  
w/ UHC



OBJECT: N 896 & IC 1805 + Mel 15

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Fade into each other on a "bridge"

Are there stars embedded in the nebula? {Yes} No} How many?

8-10 brights

Is the nebula a {uniform glow} or uneven, with bright patches or dark lanes? {Circle One}

fairly uniform

What is the shape and size of the nebula?

oblong

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

1+2 Δ pale - no help

Is the object visible by {direct vision} or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

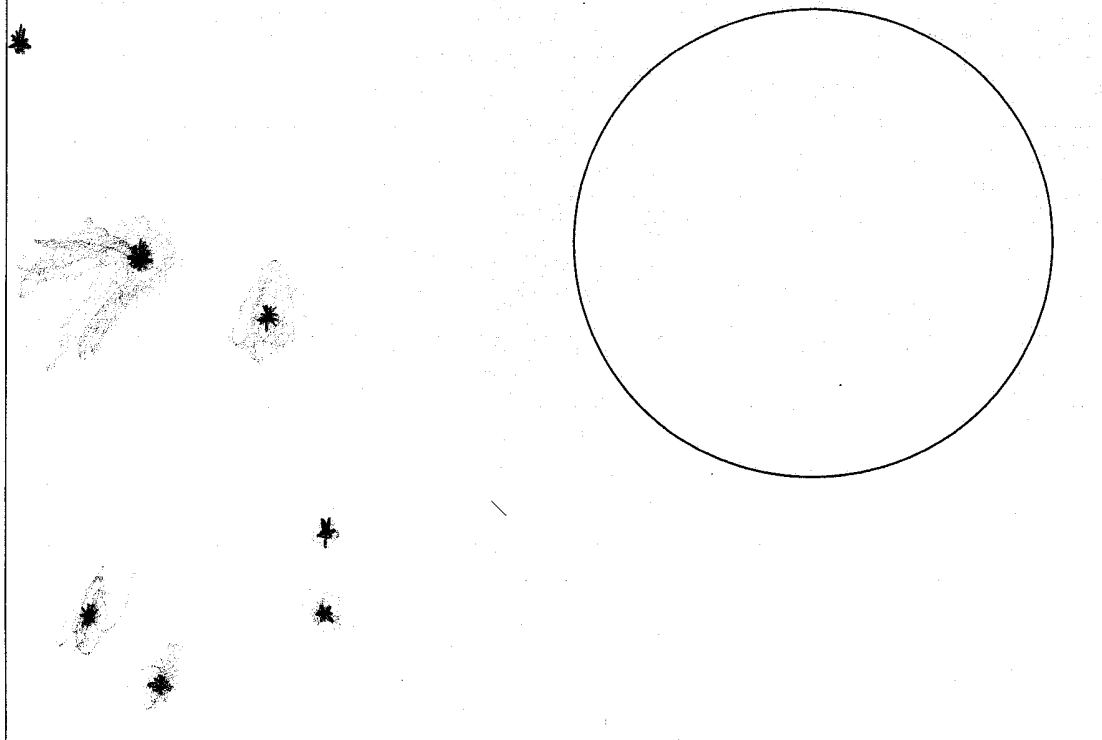
Group of stars = cluster Mel 15

## Bright Nebulae Observing Program Log

Observer's Name B. YOUNG  
(PLEIADES NEBULOSITY)

Object: <u>vd B 20/21/22/23</u>	Location: <u>O-T</u>
Date: <u>9/30/13</u>	Time: <u>4:30</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/100</u>
Device-aided? <u>7</u>	Filters: <u>NONE = BEST</u>
<u>Direct or Averted Vision?</u>	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: 1d B 20-23

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Each has its star

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

mostly

a few w/mergers

What is the shape and size of the nebula?

Merger's nebula is fan shaped on side.

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

☐ w/no filter best - filter only dim neb.

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

ITSELF

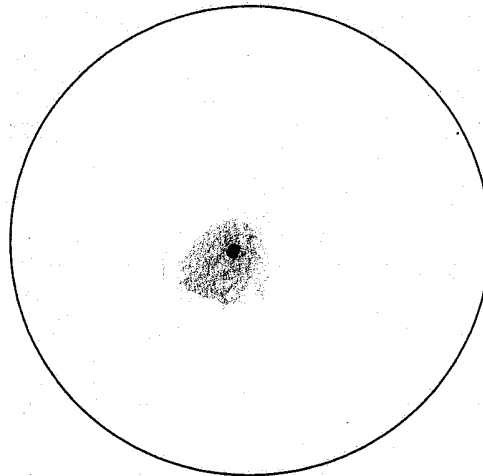
MUS

## Bright Nebulae Observing Program Log

Observer's Name B YOUNG

Object: <u>LBN 113</u>	Location: <u>O T</u>
Date: <u>10/1/13</u>	Time: <u>2:30 UT</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B1</u>	Moon phase: <u>260</u>
Instrument: <u>22</u>	Eyepiece & Magnification: <u>10 / 240</u>
Device-aided? <u>Y</u>	Filters: <u>UHC best</u>
<input checked="" type="radio"/> Direct or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: LBN113

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

1 @ 6m

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Oval, w/star off center

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

Q+V

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

53

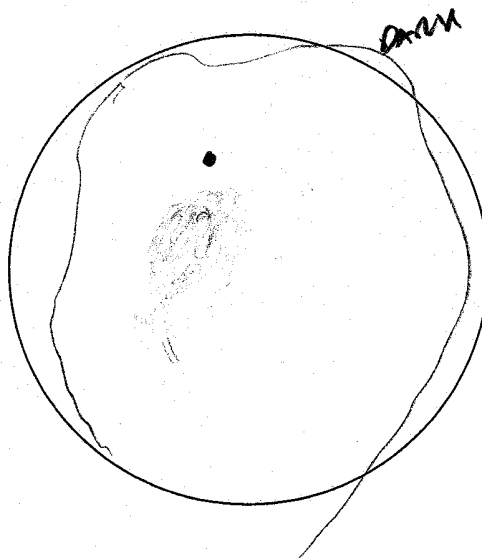


## Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>M33</u>	Location: <u>O-T</u>
Date: <u>10/1/13</u>	Time: <u>7:35</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>260</u>
Instrument: <u>220C</u>	Eyepiece & Magnification: <u>10 240</u>
Device-aided? <u>Y</u>	Filters: <u>NONE OR35</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N1333

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

BN

into DN

Are there stars embedded in the nebula? {Yes / No} How many?

Near "head" of Tadpole

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Fairly, but surrounded by DN

What is the shape and size of the nebula?

Tadpole

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□

▽ HUMB

Is the object visible by direct vision or does it require averted vision? {Circle One}

ve  
to bring  
out DN

What else is visible in the field (clusters, bright stars, other bright nebula)?

DN that surrounds it (never noticed before!)

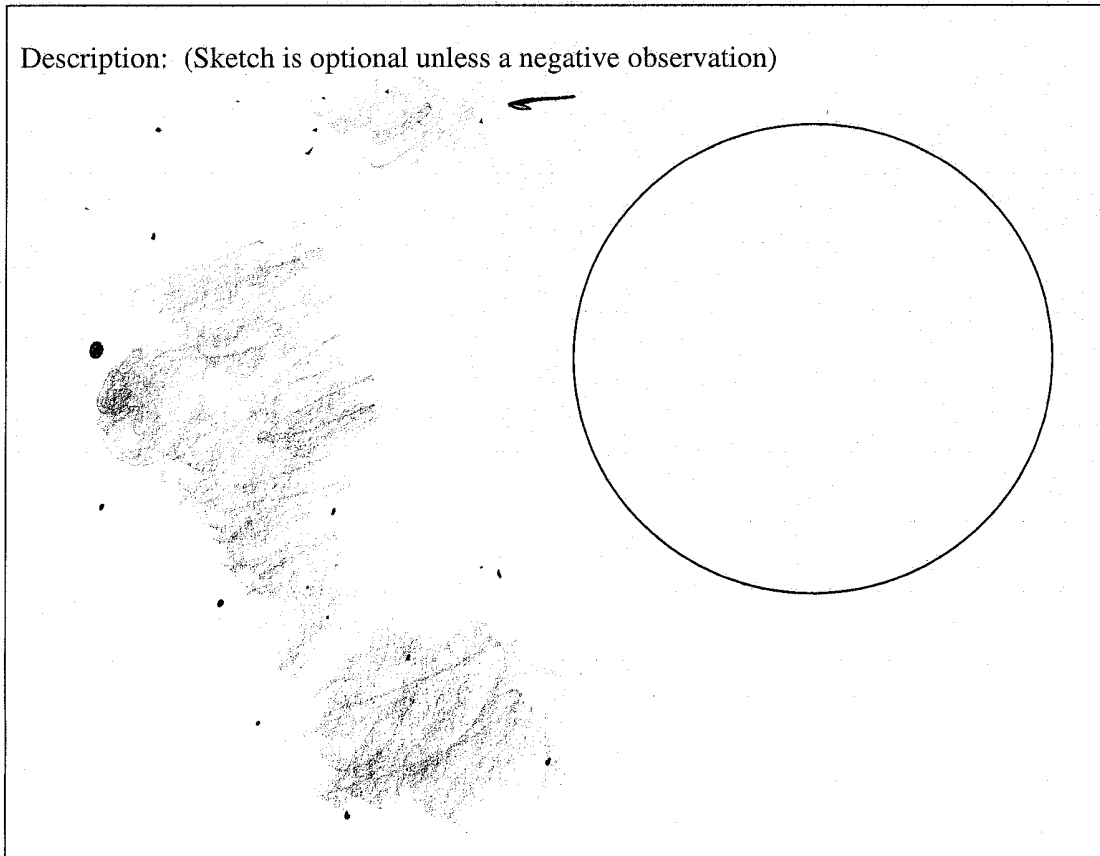
SS

# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>IC2118 (Witch Head)</u>	Location: <u>O-T</u>
Date: <u>10/1/13</u>	Time: <u>8:20-8:30</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>26 D</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/100</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 2118 (WITCH HEAD)

Does the edge of the nebula stand out clearly from the background or fade  
away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? (Yes) / No} How many?

SEVEN ORN LONGH

BUT NOTICEABLY LESS THAN MILKY WAY

Is the nebula a uniform glow or uneven, with bright patches or MANY dark lanes?  
{Circle One}

HARD TO DRAW THE VEINS THROUGHT

ALSO BRIGHTEN AREA NEAR STAR & DETACHED

What is the shape and size of the nebula?

AREA (←)

LONG & LARGE

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□ ▽

Is the object visible by direct vision or does it use → require averted vision?  
{Circle One}

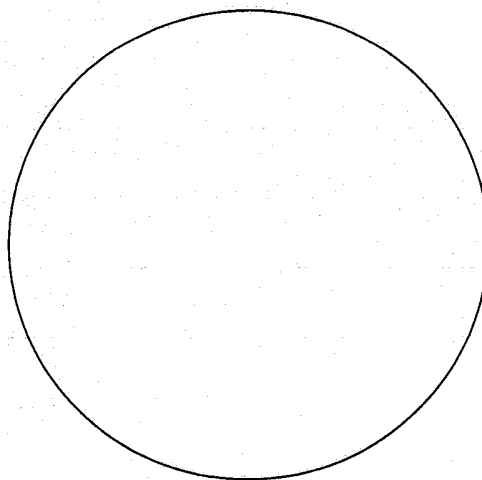
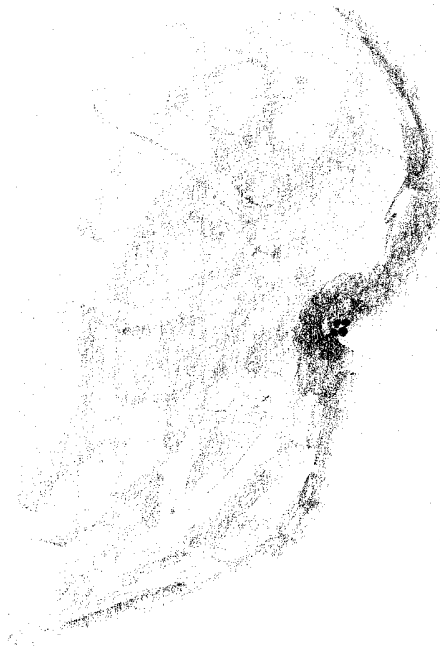
What else is visible in the field (clusters, bright stars, other bright nebula)?

# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>M42/43</u>	Location: <u>O-T</u>
Date: <u>10/1/13</u>	Time: <u>9:30</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>26D</u>
Instrument: <u>22VC</u>	Eyepiece & Magnification: <u>24"/100x</u>
Device-aided? <u>y</u>	Filters: <u>NONE = BEST</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>-1</u>

Description: (Sketch is optional unless a negative observation)



CANNOT  
DRAW  
WHAT I  
SAW!

OBJECT:

M42

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes} / No} How many?

5 seen in Trapezium (w/240x)

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Large shock wave

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

☐ D&D no help

Is the object visible by direct vision or does it require averted vision? {Circle One}

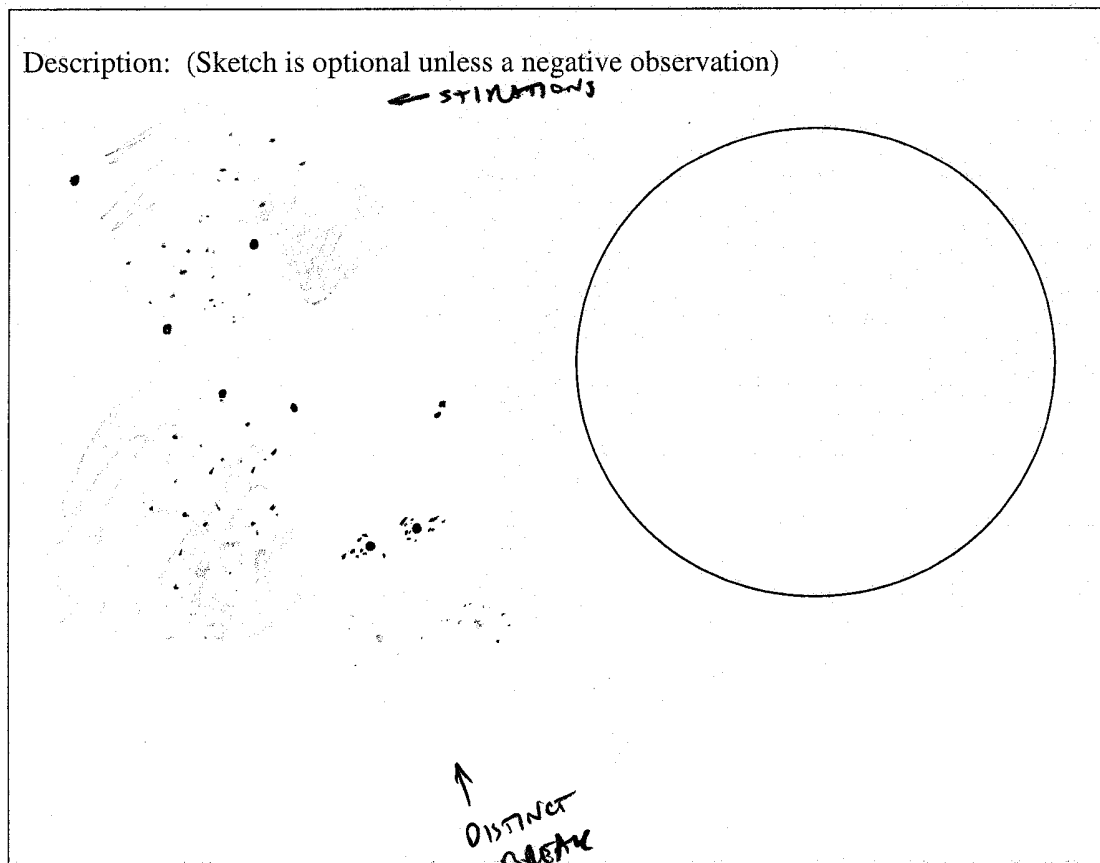
What else is visible in the field (clusters, bright stars, other bright nebula)?

# Bright Nebulae Observing Program Log

Observer's Name B. YOUNG

Object: <u>(change neb)</u> <u>IC 1848 + Sh 2-199 (nebula only)</u>	Location: <u>O-T</u>
Date: <u>10/2/13</u>	Time: <u>4:30</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-10</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24 / 100</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT:

IC 1848

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

E3p. 1st & 2nd clump shown

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Stirations

What is the shape and size of the nebula?

Large, uneven shape

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□ ▽

Is the object visible by direct vision or does it require use averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?



# Bright Nebulae Observing Program Log

Observer's Name B. YOUNG

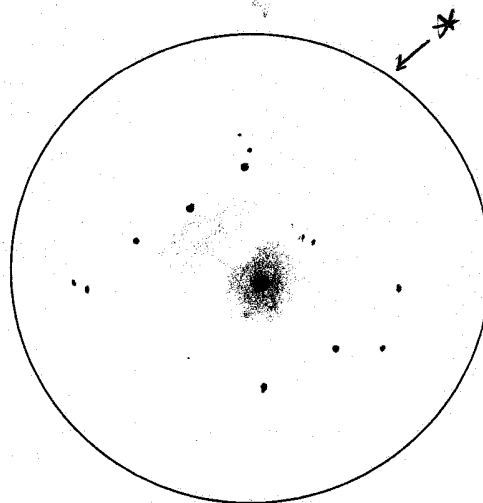
Object: <u>vdB 14 + vdB 15</u>	Location: <u>O-T</u>
Date: <u>10/2/13</u>	Time: <u>5:00</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-10</u>
Instrument: <u>22VC</u>	Eyepiece & Magnification: <u>10 / 240x</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3/5</u>

Description: (Sketch is optional unless a negative observation)

\* SLIGHT hint OF NEB  
only seen w/ filter

Looks like part  
of vdB 15!

Based on internet  
sources.



OBJECT: vdB14

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes/ No} How many?

1 bright

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

but has detached area by 3 stars in a line (cov)

What is the shape and size of the nebula?

Round, star "cloud"

How does the nebula respond to different filters and magnifications? Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

H or D + V Δ HUBBIS

Is the object visible by direct vision or does it require a verted vision? {Circle One}

other  
neb

What else is visible in the field (clusters, bright stars, other bright nebula)?

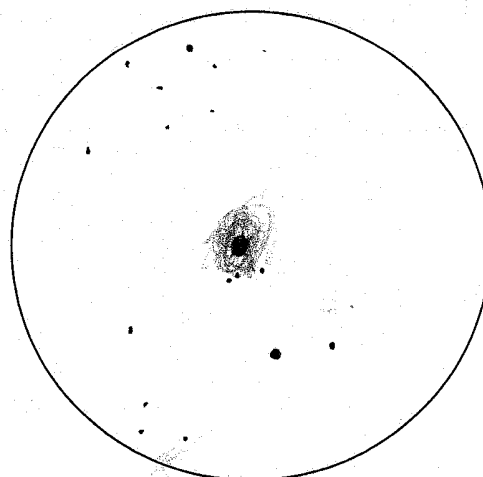
# Bright Nebulae Observing Program Log

Observer's Name B YANCE

Object: <del>vd B15</del> vd B14	Location: O-T
Date: 10/2/13	Time: 5:20
Seeing: II	Transparency: I
Darkness of site: B+1	Moon phase: -1D
Instrument: 22UC	Eyepiece & Magnification: 10 / 240
Device-aided? Y	Filters: None BEST
<u>Direct</u> or Averted Vision?	Nebula Brightness: 3/5

Description: (Sketch is optional unless a negative observation)

REPEAT



↑  
2.1 mag  
ONLY w/ FILTER, 10V  
& 4mm OF FIELD  
(NOT vd B 15)

OBJECT: vdB15

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes} / No} How many?

1

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Round star "cloud"

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

+no filter    ▽ no help

Is the object visible by direct vision or does it require averted vision? {Circle One}

↓  
for other one

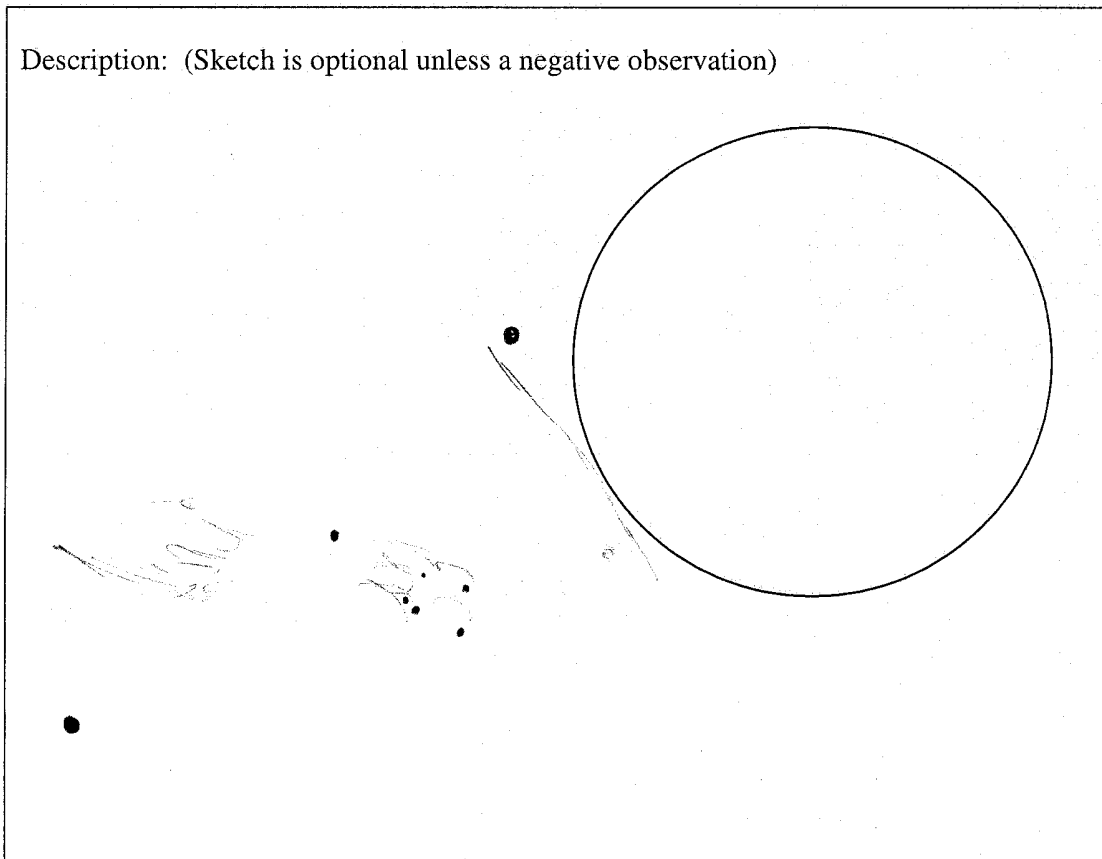
What else is visible in the field (clusters, bright stars, other bright nebula)?

## Bright Nebulae Observing Program Log

Observer's Name Byomk

Object: <u>N 1499</u>	Location: <u>ONT</u>
Date: <u>10/2/13</u>	Time: <u>5:45</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-10</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24 / 100</u>
Device-aided? <u>Y</u>	Filters: <u>None used</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>5</u>

Description: (Sketch is optional unless a negative observation)



65

OBJECT: N1499

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Very tenuous

Are there stars embedded in the nebula? Yes / No} How many?

Across it - several

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Enormous - several fields & just borders here and there

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US



↓ ↓  
normal normal

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

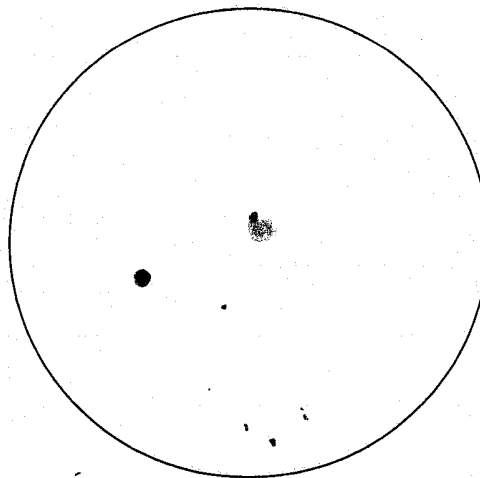
No

# Bright Nebulae Observing Program Log

Observer's Name David Yank

Object: <u>N1554/1558</u> <u>Hind's</u> <u>Var. Neb</u>	Location: <u>O-T</u>
Date: <u>10/2/13</u>	Time: <u>7:20</u>
Seeing: <u>II</u>	Transparency: <u>III (new)</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-10</u>
Instrument: <u>22vc</u>	Eyepiece & Magnification: <u>10/240x</u>
Device-aided? <u>7</u>	Filters: <u>NONE</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness:

Description: (Sketch is optional unless a negative observation)



OBJECT: N1554/555

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes/ No} How many?

off to side - illuminator

Is the nebula uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Little fan off star

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

no filter help - only power

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?



# Bright Nebulae Observing Program Log

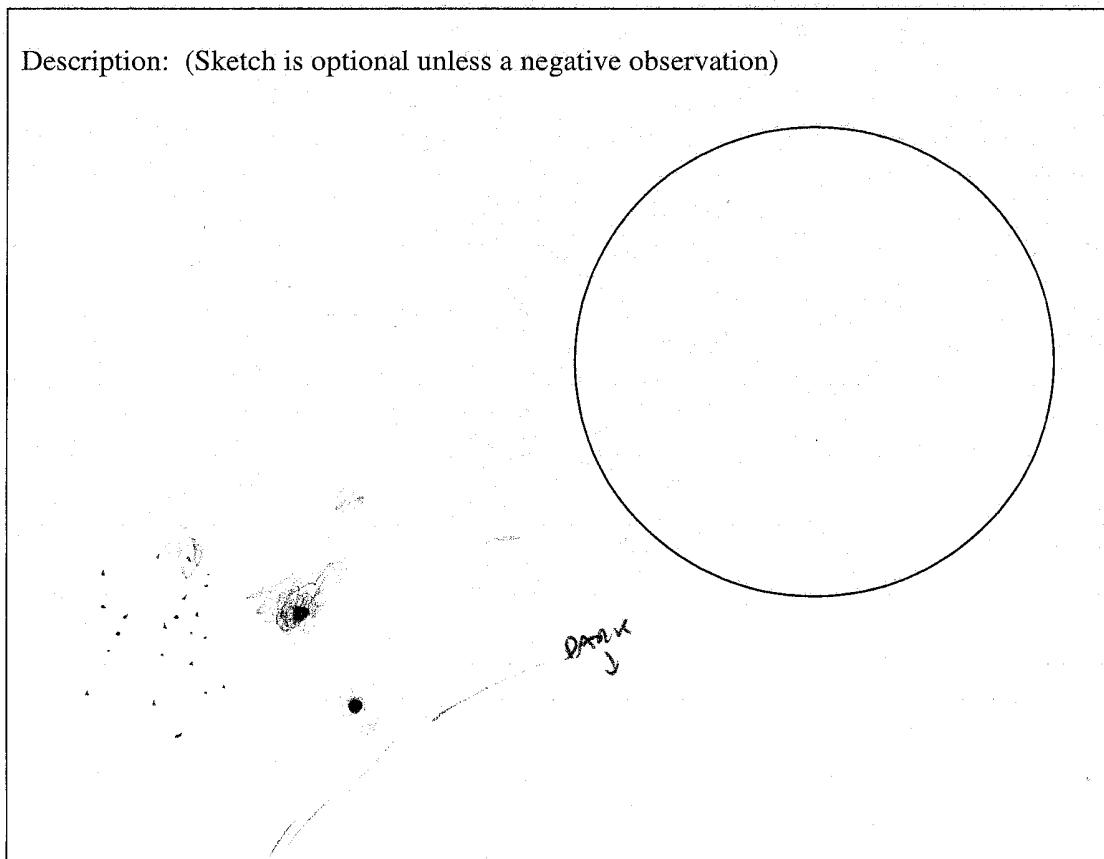
Observer's Name

B Young

REPEAT

Object: N 7635	Location: DTSP
Date: 10/3/13	Time: 2:30
Seeing: II	Transparency: I-
Darkness of site: B+H	Moon phase: -
Instrument: 22	Eyepiece & Magnification: 10 / 240
Device-aided? Y	Filters: UHC H&B
<input checked="" type="radio"/> Direct or Averted Vision?	Nebula Brightness: 3

Description: (Sketch is optional unless a negative observation)



69

OBJECT: N 7635

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One} <sup>Mostly</sup>

There is a line of "dark" as shown

Are there stars embedded in the nebula? {Yes / No} How many?

2 bright - several FS

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Patch & spots of haze surround it  
Main area ~ 10'

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□ ▽  
Δ no help □ too washed out

Is the object visible by direct vision or does it require averted vision? {Circle One} <sup>use</sup>

What else is visible in the field (clusters, bright stars, other bright nebula)?

N<sub>2</sub>

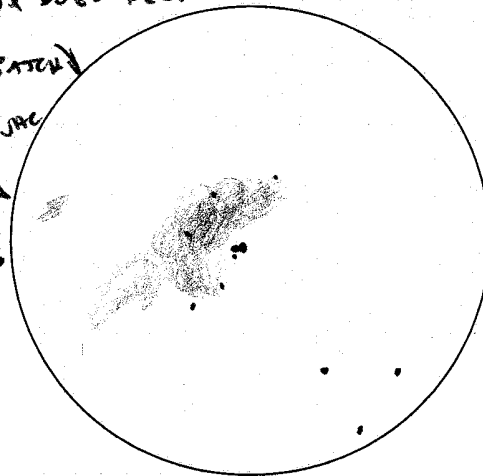
# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>N 281</u>	Location: <u>O-T</u>
Date: <u>10/3/12</u>	Time: <u>2:45</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>NEW</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/10mm 100/240x</u>
Device-aided? <u>Y</u>	Filters: <u>UHC</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)

240x DOES HELP  
BRING OUT  
MIDDLE PART  
ALSO SEEN  
w/10mm + UHC  
w/UHC  
ONLY



OBJECT: N281

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? Yes / No} How many?

3 or 4

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

see dwg

What is the shape and size of the nebula?

"Cave" - see dwg

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

I

▽

both help

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

A separate patch, NB=5

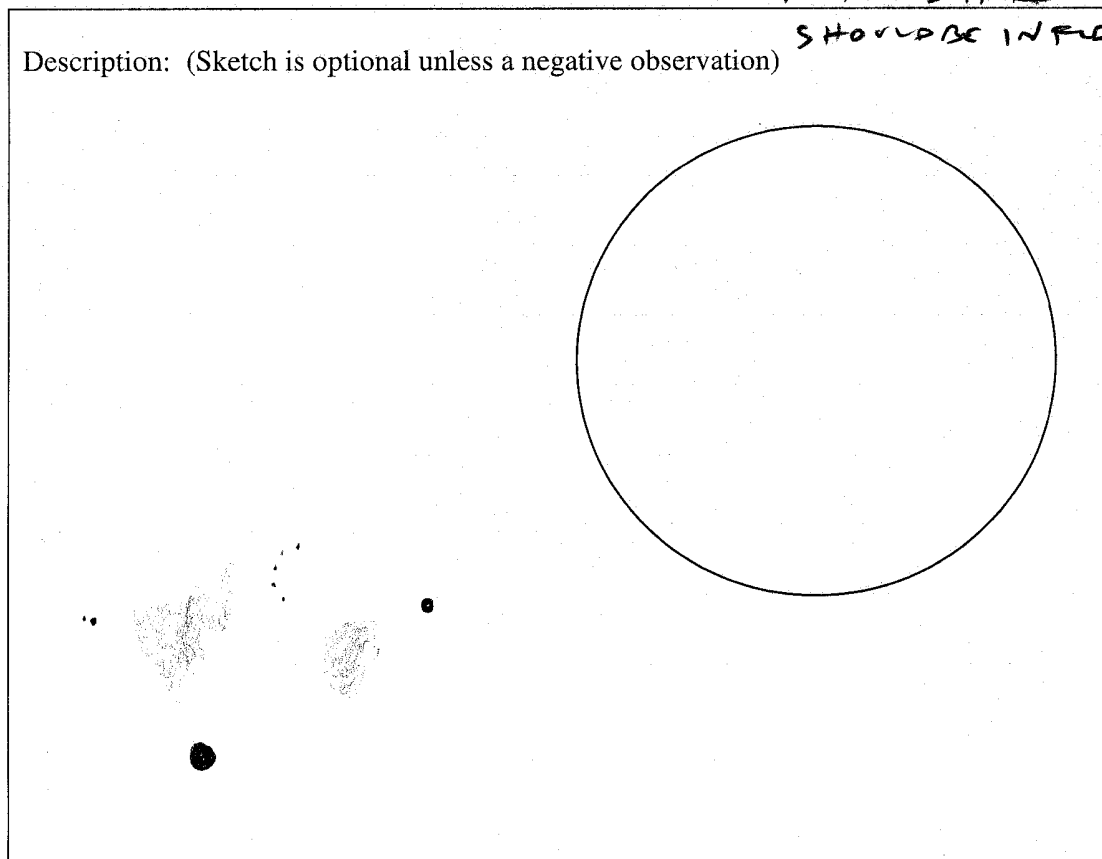
# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>7 Cas Nebs 1c 59 1c 63</u>	Location: <u>O-T</u>
Date: <u>10/3/13</u>	Time: <u>3:20</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>NEW</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/100 &amp; 10/240</u>
Device-aided? <u>Y</u>	Filters: <u>NONE HELD</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>4</u>

NOTE! SH 2-185

Description: (Sketch is optional unless a negative observation)



FROM  
COORDS?  
↑  
IT IS  
1C 59 &  
1C 63  
(ALL SAME)

OBJECT: IC 59 + 63

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Yes as is separated from them

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

one is  $\Delta$ , other oval

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

Don't best, too small, filter just make it appear.

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

Count see  
Last time

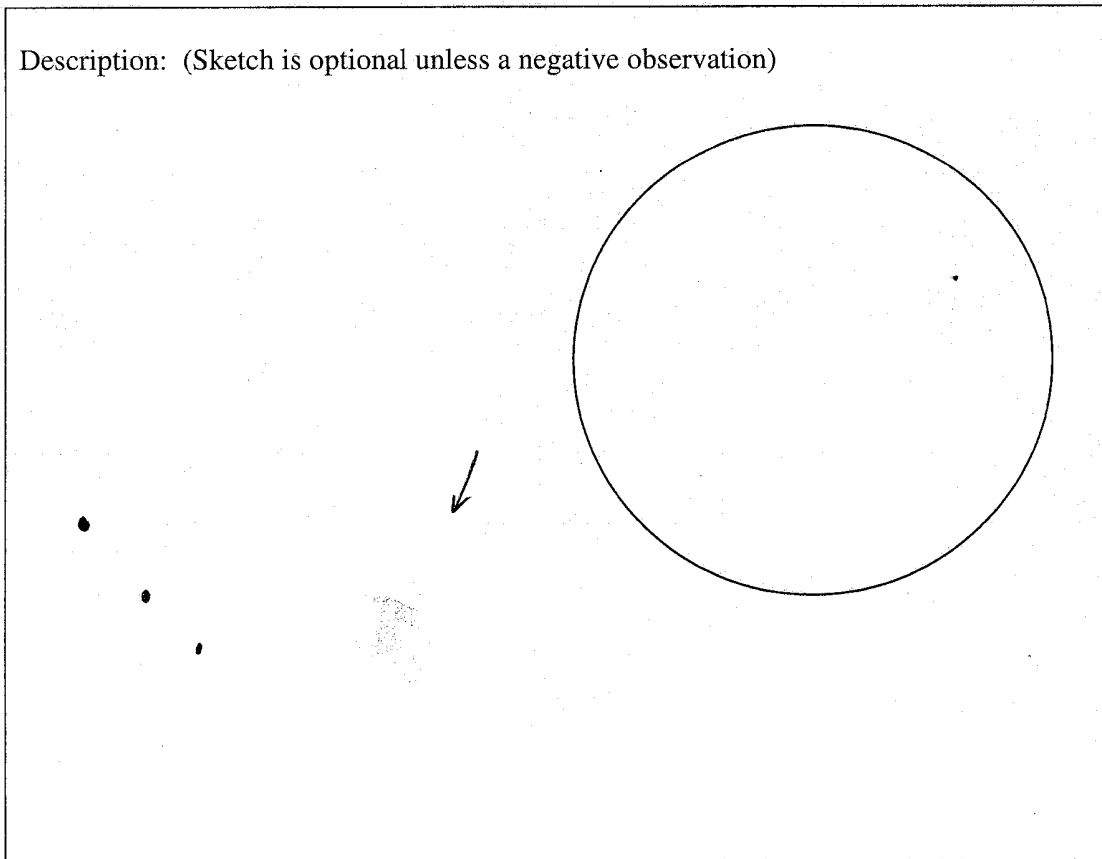
THE THREE  
F. STARS MATCH  
LOCATION OF  
NEBULA FROM  
ONLINE SOURCES.

## Bright Nebulae Observing Program Log

Observer's Name B YOUNG

Object: <u>Sh 2-183</u>	Location: <u>O-T</u>
Date: <u>10/3/13</u>	Time: <u>3:40 UT</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>NEW</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>24/100x</u>
Device-aided? <u>Y</u>	Filters: <u>NONE</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>5</u>

Description: (Sketch is optional unless a negative observation)



75

OBJECT: Sh 2-183

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes No} How many?

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Amorphous & small

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

Too dim for filters or power

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

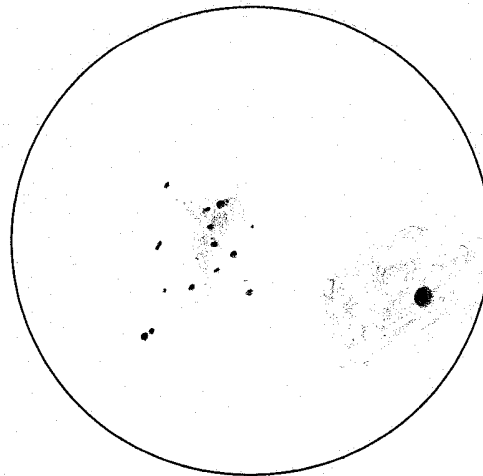


# Bright Nebulae Observing Program Log

Observer's Name B YONG

Object: <u>IC 348</u>	Location: <u>O-T</u>
Date: <u>10/3/13</u>	Time: <u>4:20</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>NEW</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10x24 240x/1200x</u>
Device-aided? <u>Y</u>	Filters: <u>NONE BEST</u>
<u>Direct or Averted</u> Vision?	Nebula Brightness: <u>4.85</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 348

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? Yes / No} How many?

Main part has ~10

Don part has 1

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Surrounding the stars - amorphous

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

1 + none

Is the object visible by direct vision or does it require use averted vision? {Circle One}

What else is visible in the field clusters, bright stars, other bright nebula)?

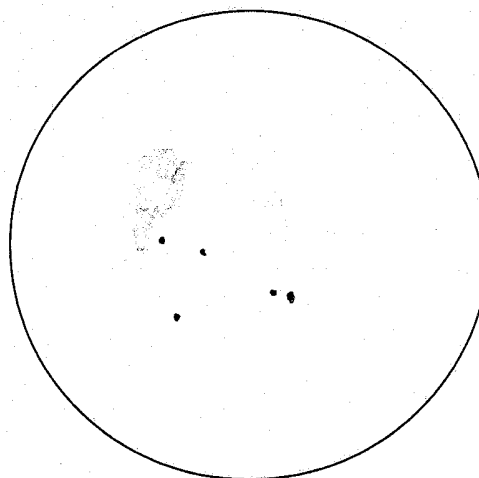
# Bright Nebulae Observing Program Log

VERIFY  
F. STARS  
MATCH PHOTO  
FROM ONLINE

Observer's Name B YOUNG

Object: <u>SN 2-210</u>	Location: <u>O-T</u>
Date: <u>10/3/13</u>	Time: <u>5:00</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>NEW</u>
Instrument: <u>22 UC</u>	Eyepiece & Magnification: <u>10/240x</u>
Device-aided? <u>7</u>	Filters: <u>NONE HELP</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>5</u>

Description: (Sketch is optional unless a negative observation)



79

OBJECT: Sh 2-210

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Is the nebula a uniform glow or uneven, with one bright patches or dark lanes? {Circle One} unlm

What is the shape and size of the nebula?

Slight hook

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

None help

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

NEEDS &  
BETTER

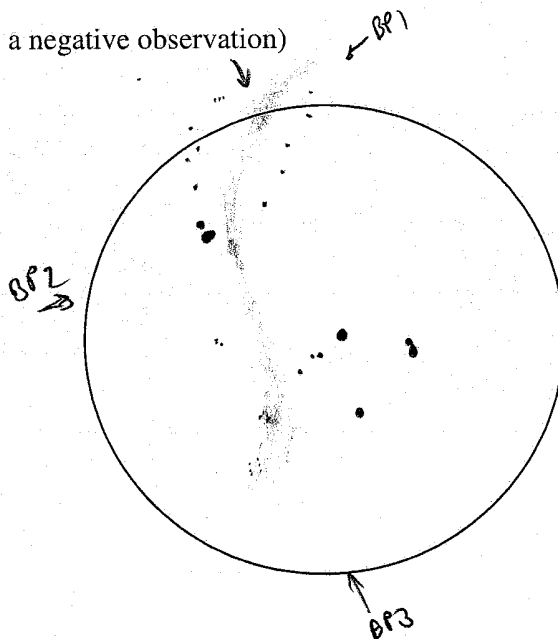
ALSO  
COSCHAR  
p413  
#173

# Bright Nebulae Observing Program Log

Observer's Name B. YOUNG

Object: <u>SEPM 357 (ANB 111 &amp; 119)</u>	Location: <u>O-T</u>
Date: <u>9/30/13</u>	Time: <u>4:15</u>
Seeing: <u>II</u>	Transparency: <u>I</u>
Darkness of site: <u>B+1</u>	Moon phase: <u>-</u>
Instrument: <u>22 UC</u>	Eyepiece & Magnification: <u>24 / 100</u>
Device-aided? <u>Y</u>	Filters: <u>NONE IS OBS</u>
Direct or <u>Averted Vision?</u>	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: DWB III/119

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

"Arms" do - "bulb" of propellers  
less clearly

Are there stars embedded in the nebula? {Yes / No} How many?

2 clumps

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

see above

What is the shape and size of the nebula?

long skinny propeller

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

UHC BROUGHT OUT 3 BRIGHT PATCHES (BP, ALSO VISIBLE W/O FILTER)

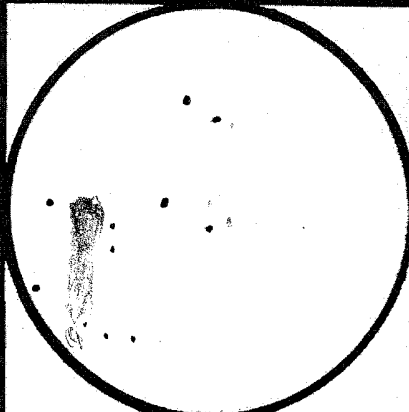
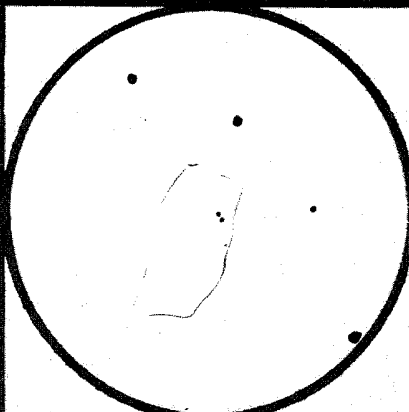
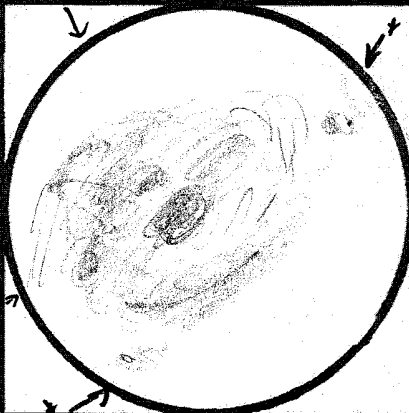
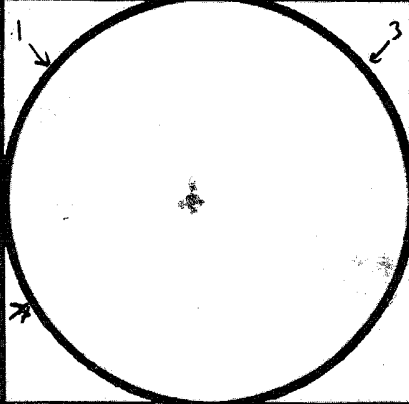
POWER HELPS TRACE W/FILTER FOR CONTRAST, BUT ONLY IF YOU'VE FOUND IT W/ WIDE FIELD

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

Milky Way

# HERSCHEL OBSERVATIONS

NOC <b>COMET 15W</b> CONST <b>Leo</b>  DATE <b>10/1/13</b> TIME <b>10:30 UT</b>		SITE <b>O-T</b> INSTR <b>22"UC</b> SEEING <b>II</b> TRANS <b>II</b> EYEPIECE <b>10</b> POWER <b>240</b> COMMENTS <b>HEAD TILTED TO WEST?</b>  <b>TWILIGHT</b>
NOC <b>SN 2-193</b> CONST  DATE <b>10/2/13</b> TIME <b>2:50</b>		SITE <b>O T</b> INSTR <b>22"UC</b> SEEING <b>II</b> TRANS <b>I</b> EYEPIECE <b>24</b> POWER <b>100</b> COMMENTS <b>FWTS ONLY w/arcute</b>
NOC <b>M33</b> CONST  DATE TIME		SITE INSTR SEEING TRANS EYEPIECE POWER COMMENTS <b>SEVERAL H II REGIONS</b> <b>ESP. 2 &amp; 5</b>
NOC <b>EINSTEIN</b> CONST <b>Cross</b>  DATE <b>h</b> TIME <b>4:00</b>		SITE INSTR SEEING <b>II</b> TRANS <b>I</b> EYEPIECE <b>2X10</b> POWER <b>480</b> COMMENTS <b>FINALLY! WHAT A WEIRD OBJECT</b> <b>FINDER CHART FROM COSMOS</b>

**BN1**

REPEAT

~~GOS~~  
~~CHM~~  
REVISIT

COS  
CHM  
176

83

4 (only an obj but sure)

N274 HERSHEY OBSERVATIONS  
 N275 (aka ARP 140)

catch  
 ↓ no  
 GROUP?

NGC 273/4/5		SITE ACT	SEEING III -	TRANS II
CONST Cet		INSTR 22UC	EYEPIECE 24	POWER 100
DATE 10/11/13		COMMENTS		
TIME 5:05		HAPPENED ON GRAB 275 & 274 CONNECTED - 275 DIMMER & FURTHER AWAY FROM ROAD SPOT OF 274		
NGC 195		SITE Oute-TEX	SEEING II	TRANS I -
CONST Cet		INSTR 22UC	EYEPIECE 24	POWER 100
DATE 9/28/13		COMMENTS		
TIME 8:30		FOUND IN NOTES - NO DETAILS.		
NGC 341		SITE Oute-TEX	SEEING	TRANS
CONST Cet		INSTR 22UC	EYEPIECE	POWER
DATE 10/1/13		COMMENTS		
TIME 7:15		FROM NOTES - NO COMPANIONS NICER ROUND GAL WITH NUC SEEN WELL.		
NGC IC 349		SITE ACT	SEEING III -	TRANS II
CONST Tau		INSTR 22UC	EYEPIECE 10	POWER 240
DATE 10/11/13		COMMENTS		
TIME 6:00		FOR COMPARISON - ACT MUCH WORSE CONTRAST THAN Oute- TEX, BUT POWER STILL NO HELP - y TAU AS EXAMPLE - THE SE NEBULAE ARE AMORPHOUS		

ARP  
 140

no  
 DETAIL

BW  
 REPEAT

84

(memo)

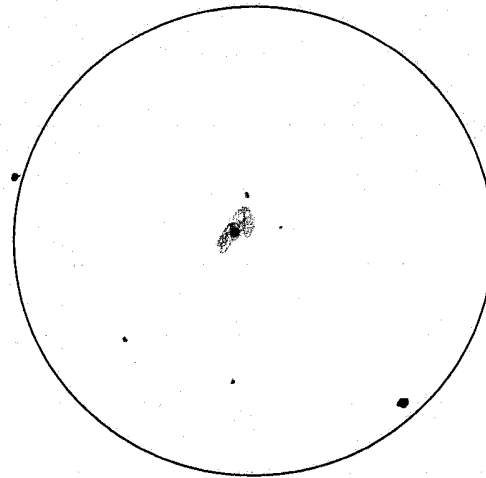


## Bright Nebulae Observing Program Log

Observer's Name B Yount

Object: <u>NOVA Per 1901</u>	Location: <u>ACT</u>
Date: <u>10/25/13</u>	Time: <u>3:40</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>200 (not up)</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10/240</u>
Device-aided? <u>Y</u>	Filters: <u>etc some help</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>5</u>

Description: (Sketch is optional unless a negative observation)



85

OBJECT: Nan Per 1901

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? Yes / No} How many?

0m ~ 13m

Is the nebula a uniform glow or uneven with bright patches or dark lanes? {Circle One}

2 small dm EOV curls

What is the shape and size of the nebula?

2 curls

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

No filter helps - too dm

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

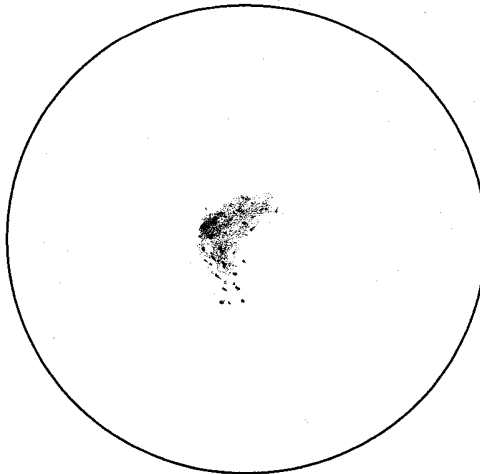
No

# Bright Nebulae Observing Program Log

Observer's Name B. Yount

Object: <u>N 1624</u>	Location: <u>ACT</u>
Date: <u>10/25/13</u>	Time: <u>4:35 JST</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>200 (just rising)</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10/240</u>
Device-aided? <u>Y</u>	Filters: <u>None is Best</u>
<u>Direct or</u> Averted Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: \_\_\_\_\_

N1624

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Yes cluster of ~20

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

near "tip" of cluster

What is the shape and size of the nebula?

Triangle like cluster

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

☐ too small

$\Delta$  &  $\nabla$  brighten patch at tip but lose the rest

Is the object visible by direct vision or does it require averted <sup>use</sup> vision? {Circle One}

to extend

What else is visible in the field (clusters, bright stars, other bright nebula)?

No - blank area in NE Perseus

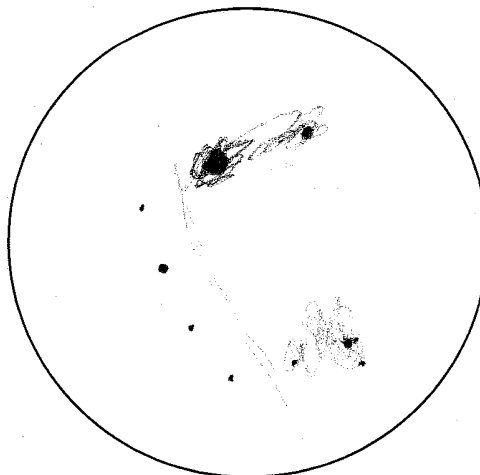
88

# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>IC 405</u>	Location: <u>ACT</u>
Date: <u>10/25/13</u>	Time: <u>4:50 PM</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>200</u>
Instrument: <u>22UC</u>	Eyepiece & Magnification: <u>10/240</u>
Device-aided? <u>Y</u>	Filters: <u>VHC B35</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT:

IC 405

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Except I can tell "dark" line  
as pencilled in - no nebula w/ the 4 filters down

Are there stars embedded in the nebula? {Yes} {No} How many?

3 or 4

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Around stars

What is the shape and size of the nebula?

Clouds in star(s)

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

☐ + ☒ best

O3 not as good as UHC

Power helps

Is the object visible by direct vision or does it require averted vision? {Circle One}

You won't see anything except main star w/o it

What else is visible in the field (clusters, bright stars, other bright nebula)?

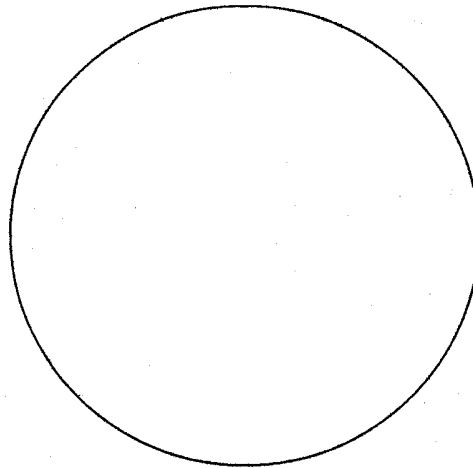
N<sub>1</sub>

## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>M7000 + IC 5067-68, 70</u>	Location: <u>ACT</u>
Date: <u>11/2/13</u>	Time: <u>3:05 UT</u>
Seeing: <u>III</u>	Transparency: <u>II</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>—</u>
Instrument: <u>20x80</u>	Eyepiece & Magnification: <u>BINOCs</u>
Device-aided? <u>No</u>	Filters: <u>NONE</u>
<input checked="" type="radio"/> Direct or Averted Vision?	Nebula Brightness: <u>2 &amp; 3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 5067-68, 70 + N 7000

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

Cluster-like group in N.A. nebula, Pelican  
is rather star poor

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

"Gulf of Mexico" stands out

What is the shape and size of the nebula?

N 7000 = N.A. contiguity, esp. East Coast

Pelican is more like a faint bar w/ some round in west

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

No filters w/ binocs

Used low power in 22" but, as always with other  
scopes, the view is best in binocs, or, for N 7000, lx w/

site like Okie-Tex

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

Deneb, bright Milky Way

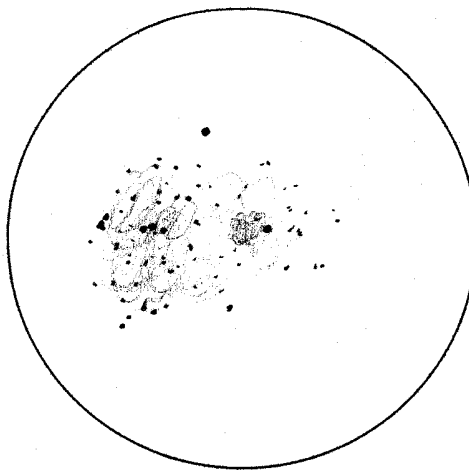


## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: N 6820	Location: ACT
Date: 11/8/13	Time: 3:20
Seeing: II	Transparency: II - (h: ice)
Darkness of site: 0+4.5	Moon phase: 40 (low)
Instrument: 22VC	Eyepiece & Magnification: 24x10 100x/240x
Device-aided? Y	Filters: UHC best
<input checked="" type="radio"/> Direct or Averted Vision?	Nebula Brightness: 3

Description: (Sketch is optional unless a negative observation)



OBJECT: N 6820

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? (Yes) / No} How many?

Yes, ~50 in a nice cluster

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

except one near south side fr.

What is the shape and size of the nebula?

Round + 1/2 in surrounding amorphous glow

How does the nebula respond to different filters and magnifications? Circle / # combos:

(24mm) 10mm w/2x O3 WB WB US

1 + WB best

Is the object visible by direct vision or does it require averted vision? {Circle One}

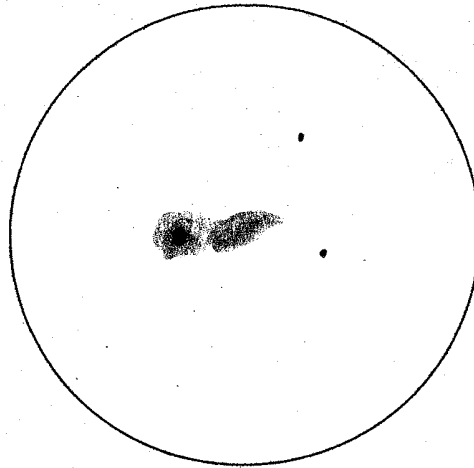
What else is visible in the field clusters <sup>nearby</sup> bright stars, other bright nebula)? in 24mm

## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>N 7023</u>	Location: <u>ACT</u>
Date: <u>11/8/13</u>	Time: <u>4:00 UT</u>
Seeing: <u>II</u>	Transparency: <u>II- (hr ice)</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>SOT</u>
Instrument: <u>22 VC</u>	Eyepiece & Magnification: <u>10</u>
Device-aided? <u>N</u>	Filters: <u>None best</u>
<input checked="" type="radio"/> Direct or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N 7023

Does the edge of the nebula stand out fairly clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?  
1

Is the nebula a uniform glow or uneven, with bright patches or dark lanes?  
{Circle One}

Separation between 2 large pieces

What is the shape and size of the nebula?

Visual "Clav" and bright star + almond/  
football shape on other piece

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□ best ∇ just dims it

Is the object visible by direct vision or does it require averted vision?  
{Circle One}

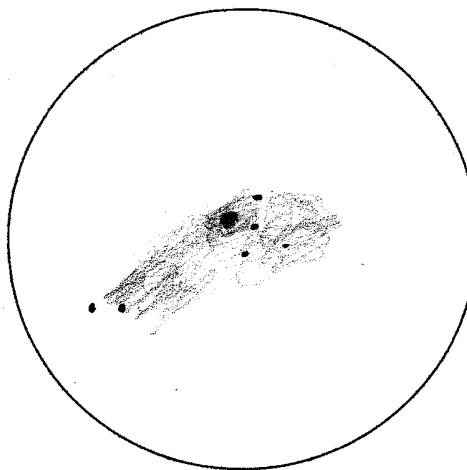
What else is visible in the field (clusters, bright stars, other bright nebula)?

# Bright Nebulae Observing Program Log

Observer's Name B Young

Object: <u>IC 353</u>	Location: <u>ACT</u>
Date: <u>11/28/13</u>	Time: <u>2:05 UT</u>
Seeing: <u>II</u>	Transparency: <u>I -</u>
Darkness of site: <u>B44.5</u>	Moon phase: <u>-</u>
Instrument: <u>22" VZ</u>	Eyepiece & Magnification: <u>10mm = 240x</u>
Device-aided? <u>1</u>	Filters: <u>VHe best</u>
Direct or Averted Vision? <u>Direct</u>	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: IC 353

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes / No} How many?

7 bright

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Amorphous / slightly curved

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

UHC helps a bit

□ ▢ Δ ∇

▢ + ∇ best

Is the object visible by direct vision or does it require use averted vision? {Circle One}

What else is visible in the field (clusters, FS bright stars, other bright nebula)?  
WIT

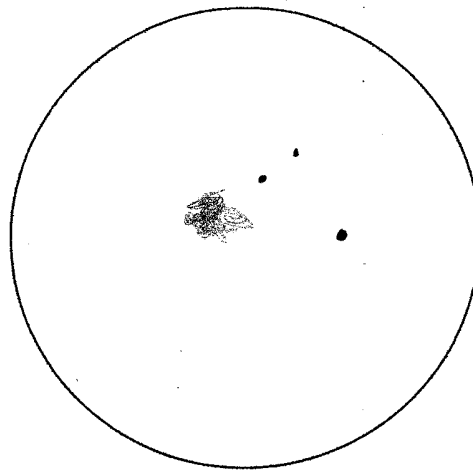
NO SIGN OF OTHER IC

# Bright Nebulae Observing Program Log

Observer's Name B. YOUNG

Object: <u>N1579</u>	Location: <u>ACT</u>
Date: <u>11/28/13</u>	Time: <u>2:25UT</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>-</u>
Instrument: <u>22"UC</u>	Eyepiece & Magnification: <u>10mm = 240x</u>
Device-aided? <u>Y</u>	Filters: <u>None - UTC limits</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N1579

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

except extension

towards brightest F.s. → fade

Are there stars embedded in the nebula? {Yes / No} How many?

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Arc shape w/ 3 pieces, set aside by 2 notches  
1 very evident, other subtle

How does the nebula respond to different filters and magnifications?

Circle / # combos:      24mm   10mm   w/2x   O3     UHC   WB   US

□ , filters dim too much

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

A few F.s.

100

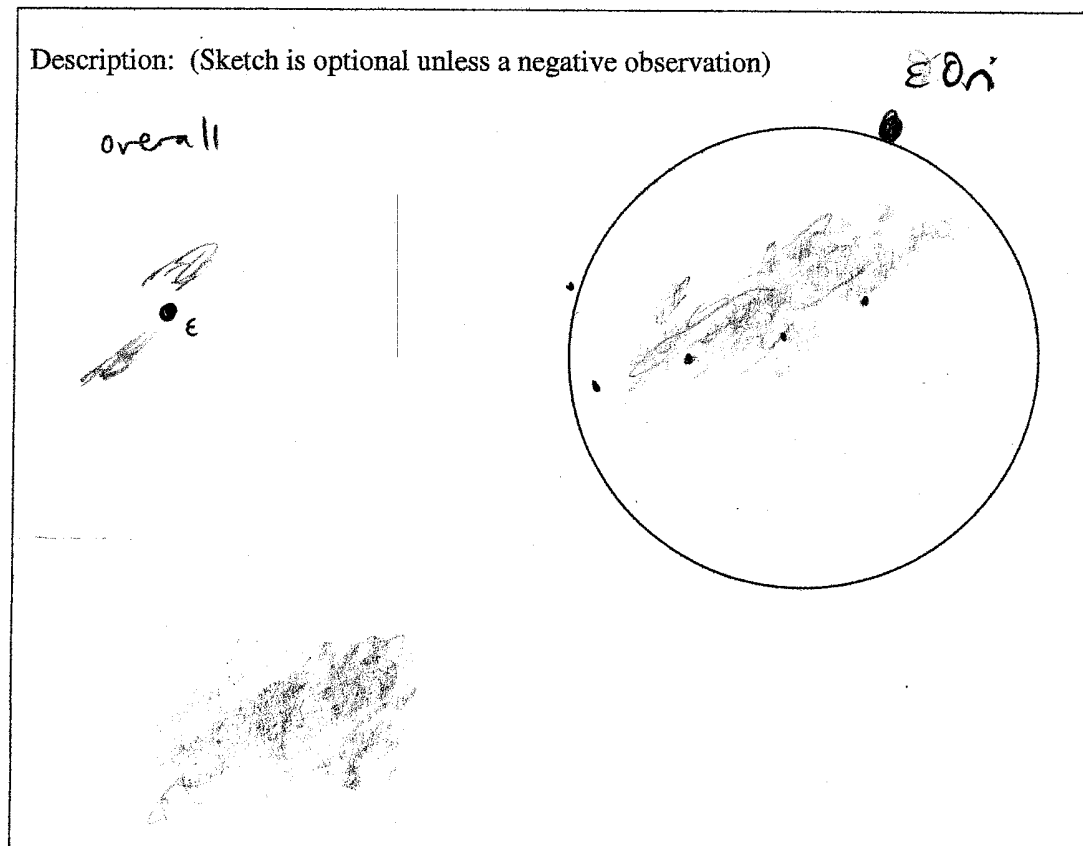


## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>N 1990</u>	Location: <u>ACT</u>
Date: <u>11/28/13</u>	Time: <u>4115</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>—</u>
Instrument: <u>22" UC</u>	Eyepiece & Magnification: <u>24 = 100X</u>
Device-aided? <u>Y</u>	Filters: <u>NONE</u>
Direct or Averted Vision? <u>Y</u>	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N1990

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? {Yes/ No} How many?

Dozens - esp. E Ori and a line  
of 4 to SSE.

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Very subtle but seems to be aligned  
and extended as shown at "overall"

What is the shape and size of the nebula?

Large d. fuzzy sl. hmt at S  $\Rightarrow$  N  
extension and elongation

How does the nebula respond to different filters and magnifications?

Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

$\square$  - no hope filters

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

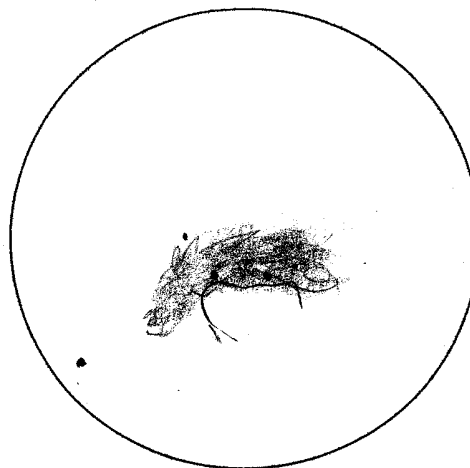
"  
E Ori

# Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>M 2068/m (M 78)</u>	Location: <u>ACT</u>
Date: <u>11/28/13</u>	Time: <u>4:45</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of site: <u>B + 4.5</u>	Moon phase: <u>-</u>
Instrument: <u>22 VC</u>	Eyepiece & Magnification: <u>10 mm = 240X</u>
Device-aided? <u>Y</u>	Filters: <u>NONE BEST</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>3</u>

Description: (Sketch is optional unless a negative observation)



OBJECT: N 2068 (M78)

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Clearly well

Are there stars embedded in the nebula? {Yes / No} How many?

3

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

Mainly

N side very distinct due to

nebula shaped as drawn

What is the shape and size of the nebula?

Med sized curl of glow set off & indented by dark neb

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

□

No filters helped

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

The dark nebula

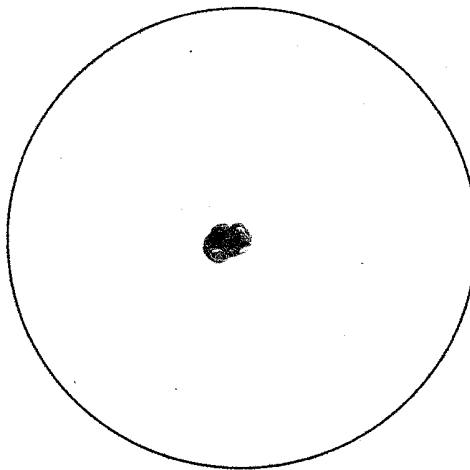
NOT ON  
BN LIST

## Bright Nebulae Observing Program Log

Observer's Name B Yount

Object: <b>N2064</b>	Location: <b>ACT</b>
Date: <b>11/28/13</b>	Time: <b>5:10</b>
Seeing: <b>II</b>	Transparency: <b>II</b>
Darkness of site: <b>B+4.5</b>	Moon phase: <b>-</b>
Instrument: <b>22UC</b>	Eyepiece & Magnification: <b>10mm = 240x</b>
Device-aided? <b>Y</b>	Filters: <b>UHC no help</b>
<input checked="" type="radio"/> Direct or <input type="radio"/> Averted Vision?	Nebula Brightness: <b>3</b>

Description: (Sketch is optional unless a negative observation)



105

OBJECT: N2064

Does the edge of the nebula stand out clearly from the background or fade away without sharp boundaries? {Circle One}

Are there stars embedded in the nebula? (Yes) / No} How many?

2 right in it

Is the nebula a uniform glow or uneven, with bright patches or dark lanes? {Circle One}

What is the shape and size of the nebula?

Small, oval, some arc to it

How does the nebula respond to different filters and magnifications?  
Circle / # combos: 24mm 10mm w/2x O3 UHC WB US

No filter helps

Is the object visible by direct vision or does it require averted vision? {Circle One}

What else is visible in the field (clusters, bright stars, other bright nebula)?

No

## HERSCHEL OBSERVATIONS

NGC	CONST	DATE	TIME	SITE	SEING	TRANS	INSTR	EYEPIECE	POWER	COMMENTS
1C4604		9/9/12	3:05 UT	O-Tex	#	#	12	24	75	v/u4c
1C4605		"	3:10 UT	"	"	"	"	"	"	IC near
6384	OPH	9/9/12	3:40 UT	"	"	"	12	24	75	HINTS OF ARMS NO MIC
6664		9/9/12	4:00 UT	"	"	"	"	"	"	

SUPPL'D

BW

NOT  
AL

LEVY  
207

# HERSCHEL OBSERVATIONS

NGC 101287		SITE OT	SEEING II	TRANS II
CONST		INSTR 12	EYEPIECE 24X2	POWER 150
DATE 9/9/12		COMMENTS		
TIME 4:00 AM		w/VAC OIII no help Beautiful double w/o filter but need VAC for BN to stand out		
NGC Sh2-16		SITE ↓	SEEING //	TRANS //
CONST		INSTR ↓	EYEPIECE 24X2	POWER //
DATE 9/10/12		COMMENTS		
TIME 2:50 AM		w/VAC		
NGC 6559		SITE ↓	SEEING ↓	TRANS //
CONST		INSTR ↓	EYEPIECE ↓	POWER //
DATE "		COMMENTS		
TIME 3:05 AM		w/VAC		
NGC Sh2-35		SITE ↓	SEEING ↓	TRANS //
CONST		INSTR ↓	EYEPIECE ↓	POWER //
DATE "		COMMENTS		
TIME 3:20 AM		w/VAC		

BN

6451 like  
M82  
w/VAC  
after  
no luck  
6526  
Add to  
BN?

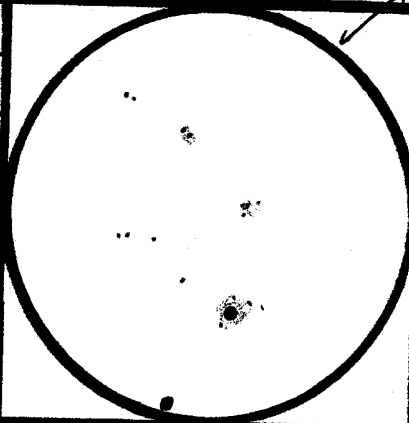
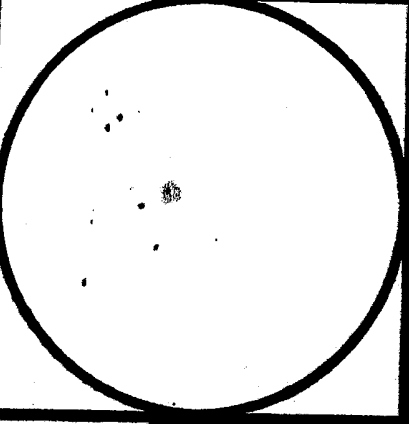
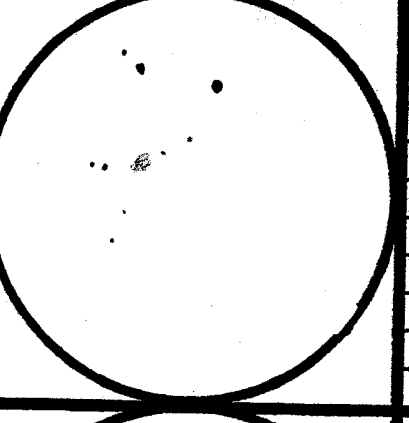
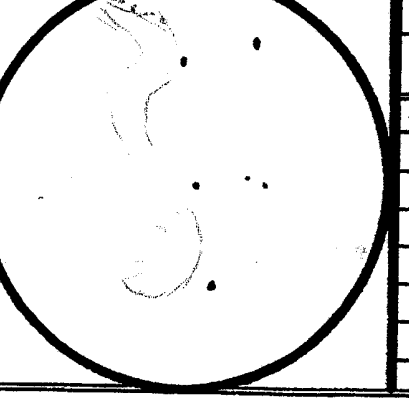
Add  
BN?

Add  
to  
BN?

108



# HERSCHEL OBSERVATIONS

NGC 6589/96		SITE Ohwctex	SEEING II	TRANS II
CONST Sgr		INSTR 12	EYEPIECE 24x2	POWER 150
DATE 9/10/12		COMMENTS		
TIME 3:30 UT		← AV=2		
		← AV=1		
NGC 5962		SITE ↓	SEEING II	TRANS
CONST		INSTR ↓	EYEPIECE 24x2	POWER "
DATE "		COMMENTS		
TIME 3:40 UT		Tory nucleus		
NGC 6106		SITE ↓	SEEING II	TRANS
CONST		INSTR ↓	EYEPIECE 24x2	POWER "
DATE "		COMMENTS		
TIME 3:55		Sm. nuc		
NGC 092/93		SITE ↓	SEEING ↓	TRANS
CONST		INSTR ↓	EYEPIECE ↓	POWER
DATE "		COMMENTS		
TIME 4:05 UT				

Add to BN?

L266

L205

109

# HERSCHEL OBSERVATIONS

NGC-1C 4715		SITE Okie-Tex	SEEING II	TRANS II
CONST		INSTR 12	EYEPiece 24x2	POWER 150
DATE 9/10/12		COMMENTS w/UHC		
TIME 4:20				
NGC 1C 4701		SITE OKIE+TEX	SEEING II	TRANS II
CONST		INSTR 12" DOB	EYEPiece 24mmx2	POWER 150X
SITE DARKNESS B+1		COMMENTS 11m sat 1 NEB BRIGHTNESS = 5		
NO DENICE		Limits of nebulosity is shown		
NO MOON		AV on by 1 OBJECT FADES AWAY		
DATE 9/10/12		NO STARS IN NEBULA UNIFORM SMALL		
TIME 4:30 UT		AMORPHOUS GLOW/BEST W/UHC		
		REQUIRES AV NO OTHER OBJECTS		
NGC 5h 2-53		SITE	SEEING	TRANS
CONST		INSTR	EYEPiece	POWER
DATE //		COMMENTS Combined w/2x42		
TIME 4:45		UHC		
NGC 6364		SITE	SEEING	TRANS
CONST		INSTR	EYEPiece	POWER
DATE //		COMMENTS Needed 2x24 sl. elong		
TIME 5:00		14m		

M17  
24x2  
w/UHC  
25  
LHC

ADD to  
ON?

M16  
24x2  
2x24  
spectator  
w/UHC  
ADD to  
ON?

ADD  
to  
ON?

L36

11/0

23-35 11 V 1732 +28

# HERSCHEL OBSERVATIONS

NGC 52-64		SITE 0-Tex	SEEING II	TRANS II
CONST		INSTR 12	EYEPIECE 2x24	POWER 150
		COMMENTS		
		VHC Av=3 subtle bar hmt		
DATE 9/10/12				
TIME 5:30 UT				
NGC 1494/20		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER
		COMMENTS		
		1.5X PLO w/VHC		
DATE "				
TIME 5:45 UT				
NGC 52-84		SITE	SEEING "	TRANS
CONST		INSTR	EYEPIECE 2x24	POWER "
		COMMENTS		
		VHC		
DATE "				
TIME 5:55 UT				
NGC 6820/23		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER
		COMMENTS		
		Very slight nebula in "neck" of T shaped OC		
DATE "				
TIME 6:10 UT				

Add to BN?

Add to BN? 127 2x24 w/VHC viewed but so 30!

N6830 1.4x Pencil w/no neb

BN

|||

# Observing Log

Object type: Nebula

BW

Object ID: IC 1318 (Y Cyg Area)

Const.: Cyg

Observer B Yang

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Date 9/10/12

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Time 7:00 US

Location Okie-Tek

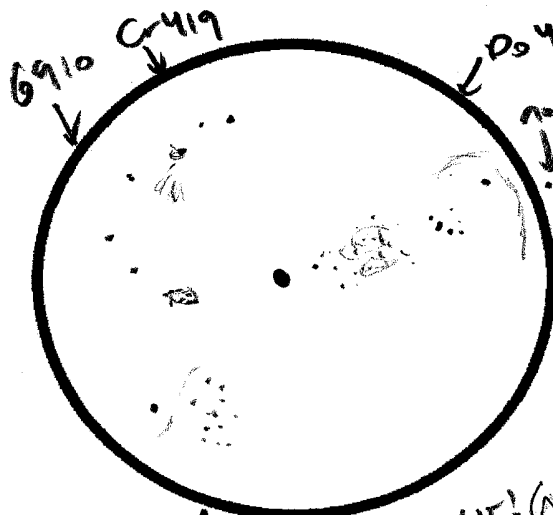
Seeing III Transparency II

Instrument 12

Size 12

Eyepiece \_\_\_\_\_

Field of view \_\_\_\_\_ Power \_\_\_\_\_



- 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?
- Is any part of the outer edge of the nebula sharply defined? As shown
- 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? ~
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? Yes
- 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? Each shown

Description \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(1999 Cole & Pratt)

112

into mid  
Cer  
opp 11 dm lens

# Observing Log

Object type: Nebula

BN

Object ID: IC 5146

Const.: \_\_\_\_\_

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Observer B Young

Date 9/10/12

Time 7:40 UT

Location O-Tex

Seeing III Transparency II

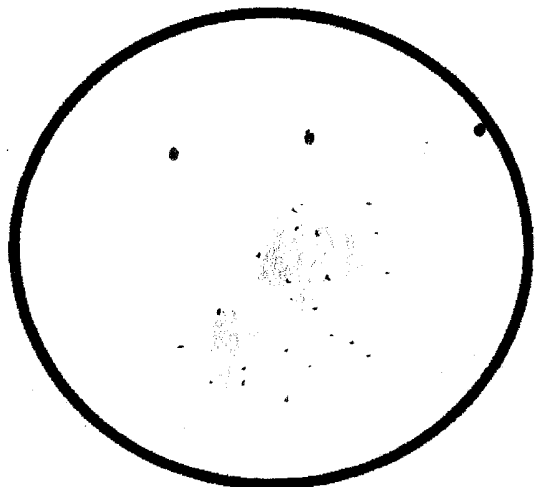
Instrument XT-12

Size 12

Eyepiece 24

Field of view \_\_\_\_\_ Power 75x

N/VHC



- Can this nebula be seen with direct vision, or is averted vision required? UX
- Is there an overall shape of the object or is it simply irregular? inverted C
- Is any part of the outer edge of the nebula sharply defined? N
- Is any part of the nebula brighter or more concentrated? As shown
- Is there any particular area where you notice an absence of stars in this cluster? In hole
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? N
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? some clump
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? 2x24 no help
- Are there any other deep-sky objects in the same field of view? If so, what?

Description Long dark nebula leads to it. Went past

It and saw N7209, OC

# Observing Log

Object type: Nebula

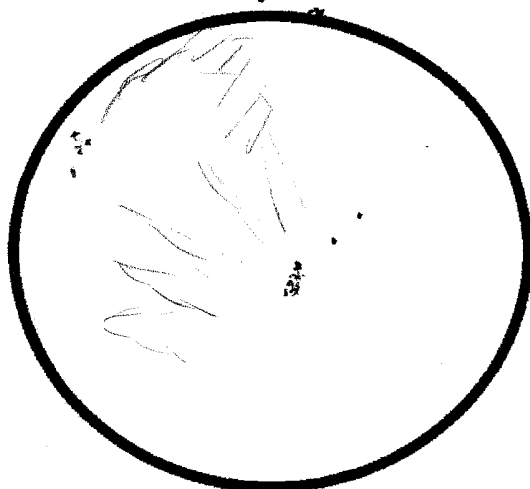
Add to SW?

Object ID: Sh2-157 W / 7510

Const.: Cep / Cas

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Mag: \_\_\_\_\_ Size: \_\_\_\_\_



Observer B Young

Date 9/10/12

Time 8:00 AM

Location Onie-Ten

Seeing III Transparency II

Instrument Xt-12

Size 12

Eyepiece 24

Field of view \_\_\_\_\_ Power 75

W/UHC

- 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? Fingers as shown
- Is any part of the outer edge of the nebula sharply defined? As ↑ & new cluster
- Is any part of the nebula brighter or more concentrated? hint
- 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? Fingers 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 (Le. filter, power, field of view, etc.)? Dark sky
- Are there any other deep-sky objects in the same field of view? If so, what? Yes, shown

Description \_\_\_\_\_

# Observing Log

Object type: Nebula

w/Czernik 43  
BN  
X

Object ID: N7635

Const.: Cas

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Observer B Young

Date 9/11/12

Time 3:00 UT

Location Ohio-Tex

Seeing III Transparency II

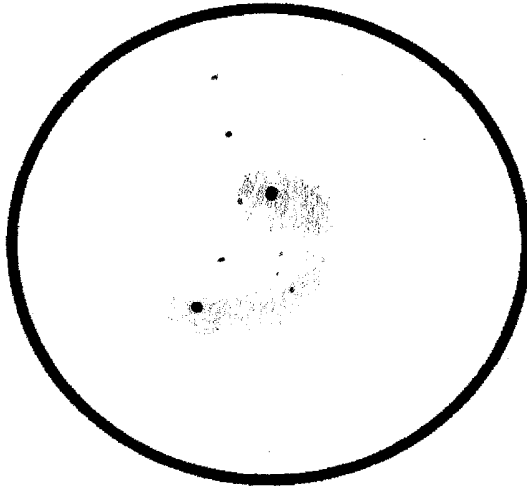
Instrument XT-12

Size 12

Eyepiece 2x24

Field of view \_\_\_\_\_ Power 150

VHC



- Can this nebula be seen with direct vision, or is averted vision required? *but use*
- Is there an overall shape of the object or is it simply irregular? Partial Arc
- Is any part of the outer edge of the nebula sharply defined? Fairly
- Is any part of the nebula brighter or more concentrated? More around stars, esp. W one
- 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? Middle
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? Is empty (Bubble)
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? No
- Are there any other deep-sky objects in the same field of view? If so, what? dark sky

Description M52 in L.P. field

(1999 Cole & Pratt)

Czernik  
43 →

no VHC  
24mm  
M52

115

# Observing Log

Object type: Nebula

~~ADD TO~~

BN 2

Object ID: IC1470

Const.: \_\_\_\_\_

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Observer B Young

Date 9/11/12

Time 3:15 UT

Location Okie Tex DARK = B+1

Seeing III Transparency II

Instrument XT-12

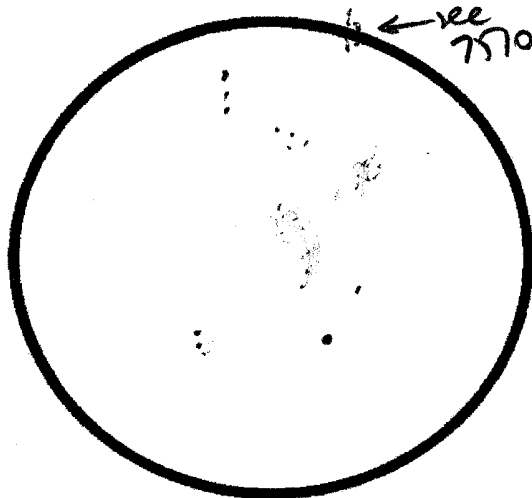
Size 12

Eyepiece 2X24

Field of view \_\_\_\_\_ Power 150X

FILTER = UHC [5]

NO MOON / NO MOON / NO B. LIGHTS = 4



- Can this nebula be seen with direct vision, or is prefer averted vision required? [6]
- Is there an overall shape of the object or is it simply irregular? Patchy [4]
- Is any part of the outer edge of the nebula sharply defined? No [1]
- Is any part of the nebula brighter or more concentrated? As shown [3]
- 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? N/A
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? 7510 nearby [2]
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? dark sky [2]
- Are there any other deep-sky objects in the same field of view? If so, what? 7510 nearby [7]

Description \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Observing Log

Object type: Nebula

BW

Object ID: N 7538

Const.: Cep

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Observer B. Yank

Date 9/11/12

Time 3:30 UT

Location Okie - Tex DARK = B+1

Seeing III Transparency II

Instrument X7-12

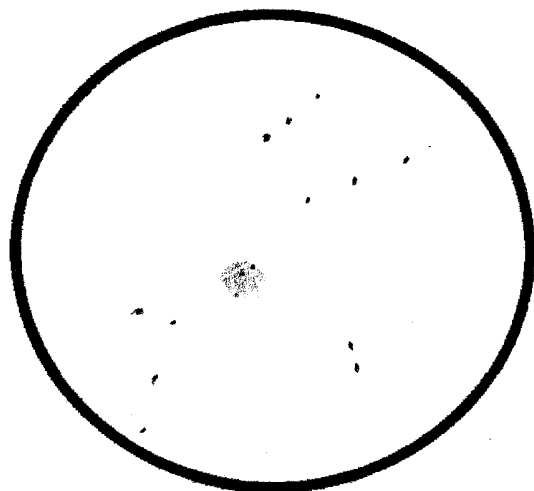
Size 12

Eyepiece 2x24

Field of view \_\_\_\_\_ Power 150

FILTER = UHC [3] NEB BRITE = 3

NO DEVICE / DIRECT VISION / NO MOON



- Can this nebula be seen with direct vision, or is averted vision required? [6]
- Is there an overall shape of the object or is it simply irregular? Round, small [4]
- Is any part of the outer edge of the nebula sharply defined? Yes [1]
- Is any part of the nebula brighter or more concentrated? ~ [3] pretty even
- 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? No
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? [2] ~ 2 stars
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? dark sky
- Are there any other deep-sky objects in the same field of view? If so, what? No [7]

Description UHC definitely improves sharpness

# Observing Log

Object type: Nebula

BN

Object ID: Sh2-155 (Cave Nebula)

Const.: Cep

Observer B. Young

RA: \_\_\_\_\_ Dec.: \_\_\_\_\_

Date 9/11/12

Mag: \_\_\_\_\_ Size: \_\_\_\_\_

Time 3:50 UT

Location Ohio-Tex DARK = B+1

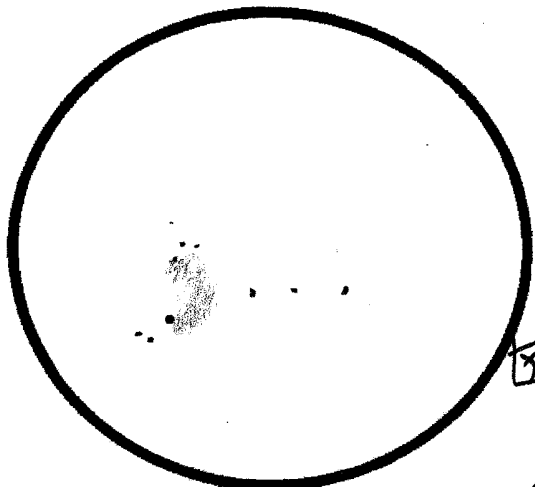
Seeing III Transparency II

Instrument XT-12

Size 12

Eyepiece 24

Field of view \_\_\_\_\_ Power 75



☒ FILTER = JHC / NO DEVICE / NO MOON  
DV / MED BRITE = 3

✓ 6

- 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? Arc 4 medium size
- Is any part of the outer edge of the nebula sharply defined? Yes 1
- Is any part of the nebula brighter or more concentrated? Perhaps lower (E) star 3
- Is there any particular area where you notice an absence of stars in this cluster? 2 2 or 3
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? "Cave"
- 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, power, field of view, etc.)? Dark nebula sets off
- Are there any other deep-sky objects in the same field of view? If so, what? No 7

Description \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



www.AstroMax.com

# Olvie-Tex Tapes 2012

## The American Association of Amateur Astronomers

### Observing Log

Count  
0-51

Observer: B. Yount Location: Olvie-Tex Page: 1

INDEX	Period - Instrument		Notes
Object M1027 IC1805	Date	Time	1027 seen easily IC1805 OC both easy, even w/ UHC filter
	9/11/12	2:30	
	Power	Seeing	
	75	III	
	Type Instrument		
	Xt-12 (12")		
Object Mark 6	Date	Time	Just a group or line of 6 stars
		2:40	
	Power	Seeing	
	Type Instrument		
Object IC1805 + Mel 15	Date	Time	"Henx Nebula" - cluster in middle has BN - the other two OCs are outside in a dark background
		2:50	
	Power	Seeing	
	Type Instrument		
Object IC1848 "cluster"	Date	Time	Zig-zag line, is a little brighter w/ more blged stars w/o UHC
		3:00	
	Power	Seeing	
	Type Instrument		
Object IC1848	Date	Time	"Soul Nebula" - seen well to NE esp. around a few fld stars, past the cluster & near a wide dbl. On E edge pretty sharp line of dark shy where nebula appears to end
		3:15	
	Power	Seeing	
	Type Instrument		
Object ↓	Date	Time	Huge <sup>OC</sup> w/ 34 overlaying it on E/NE side - all still seen "involved" w/ (soul) then crooked line of 4 stars that seem involved w/ nebula IC separately with a dark crescent just above them to the ESE.
		3:20	
	Power	Seeing	
	Type Instrument		
Object Stock 23	Date	Time	Better in finder scope
		3:40	
	Power	Seeing	
	Type Instrument		
Object Vander Berg 14 & 15	Date	Time	2 bright stars involved in nebulosity no shape (w/ UHC). 5 are more obvious None less neb, nicer fld w/ viceri dbl
		3:45	
	Power	Seeing	
	Type Instrument		

↑ also a drawing w/ Tambour 5 on 9/16/12

near it. Add to BN

119



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The American Association of Amateur Astronomers

## Observing Log

O-T Tapes 2012

Observer:

Br Young

Location:

Okie - TEX

Page: 2

INDEX	Period - Instrument		Notes
Object	Date	Time	N93 Easy, w/ a fld star "spike" points to 2. Hint of 2nd galaxy to E towards 2nd star in line of 2. Not much detail to either gx, extremely faints, may be a 3rd gx between N91 & star #1 (wide dbl), 1st gx in Δ with star #1 & spike. AV = 1 for N91
N91	9/12/12	3:00	
	Power 150	Seeing III	
	Type Instrument	12" XT-12	
Object	Date	Time	N93 h, X amazing. St 12 way too big hard to discern from blged stars. (and dm stars)
Dbl Cluster then Stock 12		3:50	
	Power 75	Seeing	
	Type Instrument		
Object	Date	Time	N743 Nice Δ of ~10 stars. Field is better w/ dipper pointing to it & just to W is curly "y" - see U chart
N743 (check)		4:10	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	IC 166 Very faint OC w/ 11m stars → shipped first pass < inaudible > [check U chart w/ 743]
IC 166		4:30	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	N7294 12 or 13m overall AV helps w/ elong not much shape to it (galaxy) 2x1 aspect [check path to 7314]
N7294		5:00	
	Power 150	Seeing	
	Type Instrument		
Object	Date	Time	N7314 11m-12m Elongated PA 170° B core and core 3x1 aspect [7314?] < inaudible > wide dbl, w/ AV can tell it there
N7314		5:20	
	Power 150	Seeing	
	Type Instrument		
Object	Date	Time	N7313 Not very visible @ all. [PA ~50°]?
N7313		5:30	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	N7293 Helix - great w/ UHC. OIII makes it bigger but less distinct as far as 3D effect of inner details
N7293 CG3		6:00	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	IC 59/63 (Y Cas) UHC - amorphous but N even easier towards bright star w/ 2 comes dark patch to S-SW that stops after 1/2
IC 59/63 (Y Cas)		6:15	
	Power 75	Seeing	
	Type Instrument		

120

BN

## HERSCHEL OBSERVATIONS

Bi Young

NGC 7213		SITE ACT	SEEING I -	TRANS I
CONST		INSTR 12"	EYEPIECE 24	POWER 63
		COMMENTS		
		wow! right next to		
		x GRV @ -47°, only 70 up		
DATE 11/8/12				
TIME 2:15 UT				
NGC 6888		SITE ACT	SEEING I -	TRANS I
CONST		INSTR 12"	EYEPIECE 2X24	POWER 125
SIDE PARAM = B+4.5		COMMENTS		
NO DEVICE		OIII LOSS IT   SHAPE = BUTTERFLY, SMALL		
		UHC TOO DIM		
DATE 11/8/12				
TIME 2:25 UT				
NGC 10561-870		SITE ACT	SEEING I -	TRANS I
CONST		INSTR 20X80	EYEPIECE -	POWER 20
		COMMENTS		
		PELICAN		
		NO FILTER HINT OF BOOMERBEAM		
DATE "				
TIME 3:00 UT				
NGC 941		SITE	SEEING "	TRANS
CONST		INSTR	EYEPIECE 2X24	POWER 125
		COMMENTS		
		Round - v. dim		
		NO NVC NOTED		
DATE "				
TIME 3:15 UT				

(BN)

4, SMALL

← FILTER

OBS IN RED

(BN)

FNGE  
MENT w/  
#16

121

## HERSCHEL OBSERVATIONS

ASTENISM

NGC 1647		SITE RMCC	SEEING II	TRANS II
CONST TAV		INSTR XT-12	EYEPIECE 24	POWER 75x
DATE 12/22/12		COMMENTS ALSO ASTENISM		
TIME 9:00				
NGC 2151		SITE ↓	SEEING ↓	TRANS ↓
CONST ONI		INSTR ↓	EYEPIECE ↓	POWER ↓
DATE //		COMMENTS Astenism		
TIME 9:10				
NGC FSA 983		SITE ↓	SEEING ↓	TRANS ↓
CONST ONI		INSTR ↓	EYEPIECE ↓	POWER ↓
DATE //		COMMENTS AP		
TIME 9:20				
NGC IC 2118		SITE ↓	SEEING ↓	TRANS ↓
CONST ONI		INSTR ↓	EYEPIECE ↓	POWER ↓
DATE //		COMMENTS WITCH'S HEAD VITE OVER BOTTOM SAME AREA		
TIME 9:30				

#18

#19

#22

BN

122

## BN's

NOTE  
M45  
NEB!

123

# HERSCHEL OBSERVATIONS

24mm watch all night  
 XTau 75X color fake due to VHC  
 looked again W2516

NGC <b>Ced 33</b>		SITE <b>RMCC</b>	SEEING <b>II</b>	TRANS <b>II</b>
CONST <b>TAU</b>		INSTR <b>XT-12</b>	EYEPiece <b>24mm</b>	POWER <b>75X</b>
		COMMENTS <b>VHC</b>		
DATE <b>12/12/12</b>				
TIME <b>10:00</b>				
NGC <b>IC 359</b>		SITE	SEEING	TRANS
CONST <b>TAU</b>		INSTR	EYEPiece	POWER
		COMMENTS <b>EDV</b>		
		<b>NO FILTER BEST</b>		
DATE				
TIME <b>10:05</b>				
NGC <b>1514</b>		SITE	SEEING	TRANS
CONST <b>PER</b>		INSTR	EYEPiece	POWER
		COMMENTS <b>2x24+03 CS easy &amp; greened</b>		
		<b>by filter but "b.11" whitish gray</b>		
DATE				
TIME <b>10:10</b>				
NGC <b>Rm 62</b>		SITE	SEEING	TRANS
CONST <b>LEP</b>		INSTR	EYEPiece	POWER
		COMMENTS <b>As</b>		
DATE				
TIME <b>10:15</b>				

BN

AST  
#26

124



# HERSCHEL OBSERVATIONS

NGC 101		SITE RMCC(AC)	SEEING II	TRANS E-
CONST ONI		INSTR XT-12	EYEPiece 24	POWER or note 75X
(Sh 2-264)		COMMENTS		
SITE DMUB+4.5		BN + AS 24" NO FILTER		
NO DEVICE NO MOON		NEB BRUTE=3 DIRECT VISION		
DATE 12/22/12		25 STARS EMBEDDED LARGE SIZE		
TIME 10:20		THIS AREA BETTER W/ UHC & SOME		
		& NOT MORE CONTRAST		
		BUT STILL JUST "FOG" (EDGE OF AWAY)		
		SEVERAL LEVELS OF BRIGHTNESS		
NGC 10434		SITE ACT	SEEING II	TRANS E-
CONST ONI		INSTR XT-12	EYEPiece 24x2	POWER 150X
SITE DMUB+4.5		COMMENTS		
NO DEVICE		SUBTLE LACK OF THE SUBS		
NO MOON		NEBULA - MORE OF A FAT		
NEB BRUTE=5		CURVE THAN HOUSEHEAD EDGE		
DATE 12/22/12		AVOID NO STARS IN IT SMALL SIZE		
TIME 10:30		2X24 + UHC FILTER		
		UNIFORM ULTRADIM LEVEL OF GLOW		
		NO OTHER OBJECTS IN FIELD - FLAME		
NGC 10		SITE	SEEING	TRANS
CONST		INSTR	EYEPiece	POWER
		COMMENTS		
DATE 12/24/12				
TIME 10:45				
NGC		SITE BRIDGE	SEEING	TRANS
CONST X		INSTR 12x60	EYEPiece	POWER
		COMMENTS		
		NICE WAY TO END FIRST		
		WINTER SOLSTICE		
DATE 11		ALL NIGHTER!		
TIME 12:40				

BN

+

AS

#24

STATE

SEVERAL LEVELS OF BRIGHTNESS

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

BN

XX

125

(NGC 2261)

EDGES STAND OUT CLEARLY  
NO STAR SEEN IN IT

BN ←  
+ SE

OBJECTS: BRIGHT  
NGC 2264 NEBULA  
2261 B. young

Obs BRIGHT GLOW  
RESPONDS TO POWER  
DIRECT VISION  
2264 NEARBY

1/5/2013

SEEING = II

DARKNESS = B+4.5

(ACT)

INST. = 12" DOB



cluster  
TIME = 4:40 UT

TRANSP. = I-

MOON  $\phi$  = NONE

EYEPIECE = 2x42mm  
= 150X

FILTER = NONE

NEB BRIGHTNESS =

2(2264), 2(2261)

Selected:

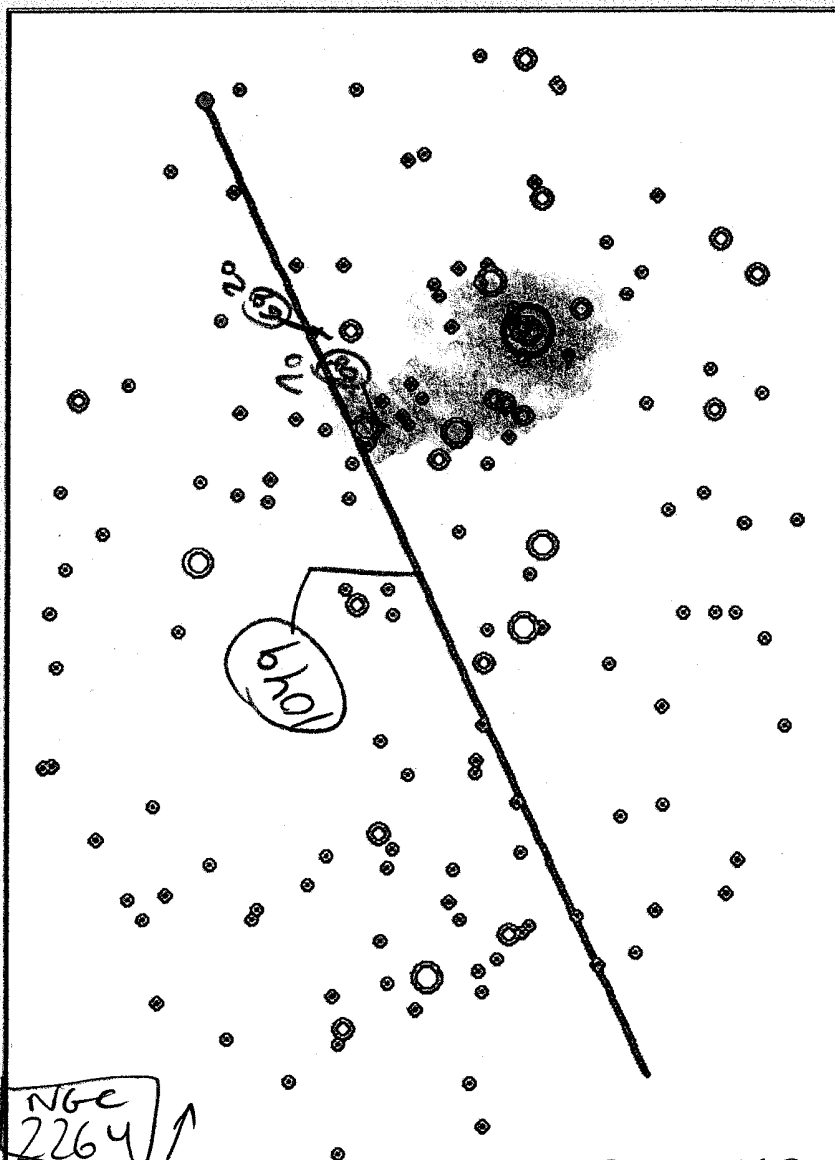
06:40:58.6562 +09:53:44.709 4.642

2261

126

Site 8336 Design 81025C SSN 12371 Status G = good  
Time Absolute Elapsed  
Obs Y M D 2013 1 6 4 40 40 0.000 +/- 0.100 Accy  
Obs Time UTC

Geometry  
On line AB  
Right Angle - Right of B  
Right Angle - Left of B  
Aperture of A  
Camera Length  
Magnitude Unc +/-  
Optical Code S = steady  
Eject  
Age d 0.29  
Tunc 0.00  
FOV Centre  
Y M D 2013 1 6  
UTC 4 48 60.000  
R.A. Dec  
06:39:53 +09:27:42  
AZ EL  
144.25 58.97



NGC 2264

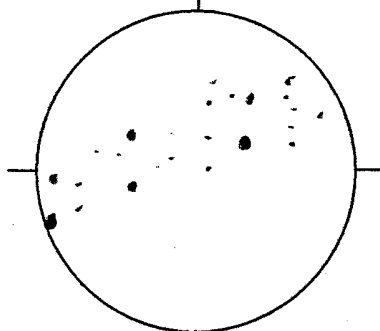
EDGES FAIRLY STAND OUT  
~20 STARS EMBEDDED  
FAIRLY EVEN GLOW EXCEPT  
RIGHT AT S MON V. BRIGHTER  
SHAPE = LARGE,  
FOLLOWS CLUSTER  
2261 NEARBY

# RASC Visual Observing Log

Page:  

Date: 2/3/12	Time: 3:00UT	Activity: NOTED
Location: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>		
Conditions:	Transparency ① ② ③ ④ ⑤	Seeing ① ② ③ ④ ⑤ ⑥ ⑦
Limiting Visual Magnitude: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>		

Object: FLYING MINNOW	Cons: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	RA h m s
Type: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Mag/Size: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Dec ° m s
Instrument: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Chart Ref: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	
Eyepiece: mm Filter: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>		
Notes: NICE SLIGHTLY		
CURVED RECTANGLE		
WITH GREAT COLORS		
OF STARS		



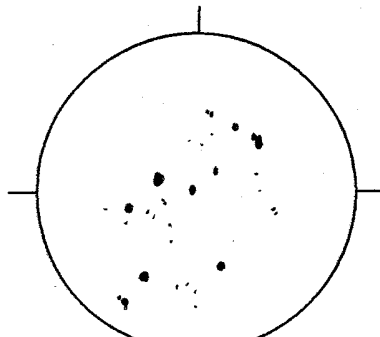
AS #2

WHILE THERE

IC 405  
150x  
WHE no  
help

BN

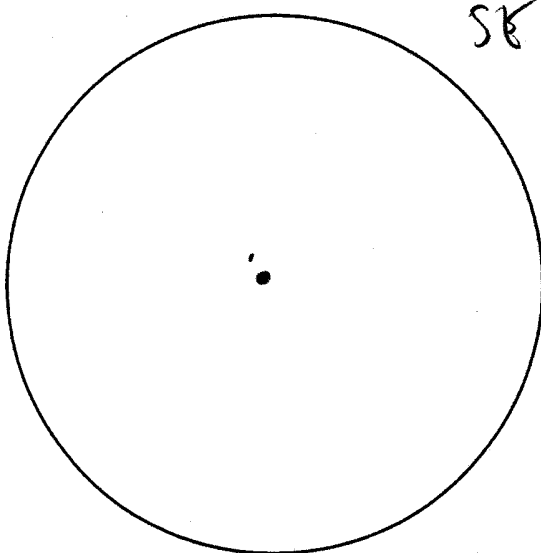
Object: SHORT ARCHER	Cons: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	RA h m s
Type: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Mag/Size: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Dec ° m s
Instrument: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	Chart Ref: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>	
Eyepiece: mm Filter: <span style="border-bottom: 1px solid black; display: inline-block; width: 100%;"></span>		
Notes: NEAR GH05-13		
WHILE WAITING		
(UNSUCCESSFULLY) FOR		
A SATELLITE		
SHORT ORION OR		
ARCHER		



NIP

# Double Star Observation Record

Index:



Subject: Y 12er

PA: \_\_\_\_\_

Sep: \_\_\_\_\_

Color: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Observing Location: \_\_\_\_\_

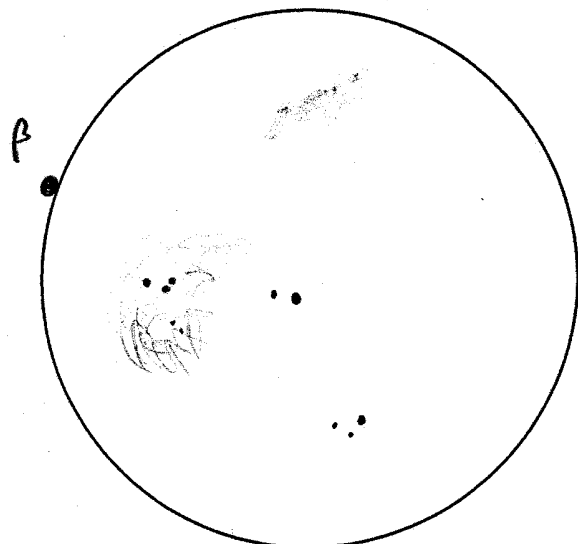
Instrument: \_\_\_\_\_ Aperture: \_\_\_\_\_

EP/Mag: 2x42 TFOV: \_\_\_\_\_ Focal Length: \_\_\_\_\_

Conditions: \_\_\_\_\_

Seeing: \_\_\_\_\_ Transparency: \_\_\_\_\_

Notes: Y & w-bl



Subject: vd 21

PA: \_\_\_\_\_

Sep: \_\_\_\_\_

Color: \_\_\_\_\_

Date: 2/3/13 Time: \_\_\_\_\_

Observing Location: ACT

Instrument: 12" Aperture: \_\_\_\_\_

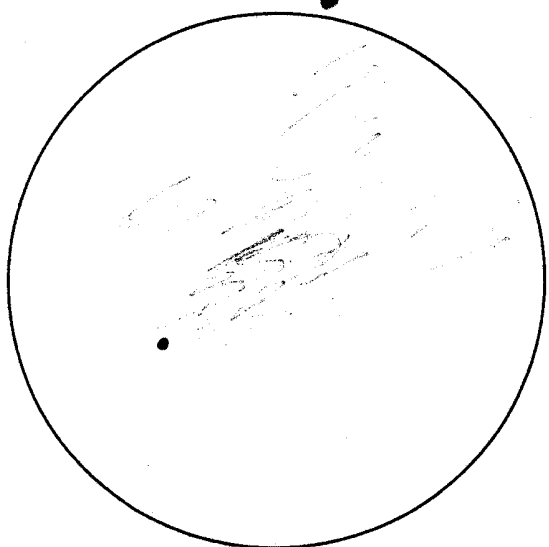
EP/Mag: 24/75 TFOV: \_\_\_\_\_ Focal Length: \_\_\_\_\_

Conditions: \_\_\_\_\_

Seeing: \_\_\_\_\_ Transparency: \_\_\_\_\_

Notes: + UHC

SECRET  
DEEP  
#1



Subject: CALIFORNIA NEBULA

PA: \_\_\_\_\_

Sep: \_\_\_\_\_

Color: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Observing Location: \_\_\_\_\_

Instrument: \_\_\_\_\_ Aperture: \_\_\_\_\_

EP/Mag: \_\_\_\_\_ TFOV: \_\_\_\_\_ Focal Length: \_\_\_\_\_

Conditions: \_\_\_\_\_

Seeing: \_\_\_\_\_ Transparency: \_\_\_\_\_

Notes: w/unc

SECRET  
DEEP  
APOL  
20  
#4  
BN  
↑

128

B. Young

129

# HERSCHEL OBSERVATIONS

NGC 10430		SITE ACT	SEEING II	TRANS I	
CONST		INSTR 12"	EYEPIECE 2X24	POWER 50	
		COMMENTS			
		AMORPHOUS SO OIL, <del>UB</del> UHC			
		HELP ONLY IN DIMMIAL STATE			
DATE 4/5/13					
TIME 3:05					
NGC M78		SITE	SEEING	TRANS	
CONST		INSTR ↓	EYEPIECE ↓	POWER 150X	
		COMMENTS			
		NO FILTER BEST			
		FAIRLY EVEN GLOW			
DATE 11					
TIME 3:15					
NGC 10408		SITE	SEEING	TRANS	
CONST		INSTR ↓	EYEPIECE ↓	POWER	
		COMMENTS			
		153 A UHC NOT WB IT'S SL > OIL			
		A BIT LIKE A COMET W/ VERY SHORT TAIL			
DATE 11					
TIME 3:25					
NGC 102149		SITE ACT	SEEING II	TRANS I	
CONST		INSTR 12" XT ✓ DOB	EYEPIECE 2X24mm	POWER 150X	
		COMMENTS			
		OIL & UHC ERASE IT, 215 USE			
		POWER - (NO CS) VERY			
DATE 11					
TIME 3:40					

ADP to  
BN  
+

BN

BN

SD  
27

130

NO OTHER OBJECTS

④ = SE of NGC 2149 150X  
 9m fast E

# HERSCHEL OBSERVATIONS

NGC 2149		SITE ACT	SEEING IV	TRANS III
CONST		INSTR 12"	EYEPIECE 2X24	POWER 150
		COMMENTS		
		WHE 203 NO HOPE		
		SMALL NEARLY STELLAR		
DATE 4/14/13		GLOW - NO DETAIL		
TIME 2:30				
NGC 1758		SITE ↓	SEEING 8"	TRANS
CONST +		INSTR ↓	EYEPIECE 24	POWER 75
1750/46		COMMENTS		
		] THESE ARE 1758		
		DIDN'T SEE LINE BETWEEN GROUPS IN PHOTOS		
DATE				
TIME 2:40				
NGC 1758		SITE ↓	SEEING 11"	TRANS
CONST +		INSTR ↓	EYEPIECE 24	POWER 75
1750/46		COMMENTS		
		1746 & 1750 ARE THE		
		LARGE CLUSTER, NOT THESE		
DATE		LITTLE KNOTS.		
TIME 2:45				
NGC K Pup		SITE "	SEEING "	TRANS
CONST 20X80!!		INSTR 20X80	EYEPIECE	POWER 20X80
		COMMENTS		
		Split! 330° Both W		
DATE				
TIME 2:55				

SD 28  
 +  
 (BN)

SD  
 18

CH 300

(131)





FIVE GREAT - NO WIND - PARTICLES  
 10-10<sup>3</sup> 23-4 sunrise

⑥ ⑤ TVBS 7/10/13  
④  
x . n . oph . 90  
x .

A hand-drawn diagram showing a horizontal line with an arrow pointing to the left. Three points are marked on the line: a dot labeled 'k' at the top right, a circle containing the number '7' in the middle, and a dot labeled '5' at the bottom right. A small star is drawn on the line between the circle '7' and the dot '5'.

dark lanes about 7:20  
5

MIL

best w/ UHC on 24

10 not rest

10 u/p

low ~~out~~  $n^p$

10 w/WB (5 very really awarded)

 $24 + 03$ 
$$24 + VS(\text{no } \text{Le}(r)) \leq$$

24 af

Nfe 6210

Local  
Source  
or CS

10/5 mm

w/w/o 03

N6883

Chap 10  
24

Bxcl 1  
24

6712  
dark  
sharp  
low

6535 10mm

M92 10mm

N6229 ↓  
po her

Case 2:10

O3 and more halo  
but no CS

(obvious w/nf)

W 6239 24m

MS Kenn

2x to  
N6229  
Hazy  
Too sky  
now  
Curran

727 2x10 nf

6/60  
4/2/27  
10/2/27

133

④ = 1/2  
-6  
wsw

250a  
MS1

Shore MS1  
M17 w/03+10mm  
wow  
M8  
M4

# HERSCHEL OBSERVATIONS

NGC 5690		SITE 3RF	SEEING II	TRANS T-
CONST		INSTR 22	EYEPiece 10	POWER
		COMMENTS		
		3x1 along, Ser. clumps, stars @ both ends		
DATE 7/8/13				
TIME 4:30				
NGC 5636/38+		SITE	SEEING	TRANS
CONST U9370		INSTR ↓	EYEPiece 10	POWER ↓
		COMMENTS		
		NICE TRIANGLE		
DATE //				
TIME 4:40				
NGC 5690		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece	POWER ↓
		COMMENTS		
		STEVE CONFIRMS		
		FIGURED OUT - STRANGE SHAPE		
DATE //				
TIME 4:45				
NGC 8813/11		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 10	POWER ↓
		COMMENTS		
		8811 v.b anaphor glow		
DATE //				
TIME 4:55				

⊗

GG?

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# HERSCHEL OBSERVATIONS

NGC 5806		SITE 31F	SEEING II	TRANS I-
CONST		INSTR 22	EYEPIECE 10	POWER
DATE 7/8/13		COMMENTS SN		
TIME 6:30 UT				
NGC 1C 1396		SITE 31F	SEEING II	TRANS I-
CONST Cep		INSTR 22" UC	EYEPIECE 24mm	POWER 100X
SITE DATA = B+Z DEVICE = YES NO MOON		COMMENTS WRW/ NHC (WITH UHC IS BEST) MEDIA BRIGHTNESS = 3 EDGES FADE OUT SEVERAL STARS / EDGE OF CLUSTER IN VUED UNEVEN, PATCHY GLOW, LARGE, NO SHAPE DISCLOSED / CAN SEE DIRECTLY BUT USE CLUSTER IN FIELD AV		
DATE 7/8/13				
TIME 6:40				
NGC M 101		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE 10	POWER
DATE "		COMMENTS ① sat ← EACH OF THE AREAS MENTIONED IN CHALLENGE		
TIME 7:00		Boon - normal fields		
NGC M 13		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE 10	POWER
DATE "		COMMENTS FILLY FIELD "WAKE" OBVIOUS		
TIME 7:30				

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# HERSCHEL OBSERVATIONS

NGC- M57		SITE 37F	SEEING I-	TRANS I-
CONST		INSTR 22	EYEPiece 10x20P	POWER
		COMMENTS		
		CS! SOME TEXTURE INSIDE SL. ELLIP.		
DATE 7/9/13		RING, BRIGHTER AREAS SHOW BETTER		
TIME 3:55		W/OBT BUT BEST VIEW AD R		
NGC- 72		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 2x10P	POWER
		COMMENTS		
DATE 11				
TIME 4:10				
NGC 5670		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 10P	POWER
		COMMENTS		
DATE 11				
TIME 4:20				
NGC 5689		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 10	POWER
		COMMENTS		
DATE 11				
TIME 4:30				

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# HERSCHEL OBSERVATIONS

NGC 5173+		SITE 3NF	SEEING II	TRANS II
CONST		INSTR 22	EYEPiece 10	POWER
		COMMENTS		
DATE 7/10/13				
TIME 5110				
NGC 51789		SITE	SEEING	TRANS
CONST		INSTR	EYEPiece	POWER
		COMMENTS		
DATE 11				
TIME 5120				
NGC 5320		SITE	SEEING	TRANS
CONST		INSTR	EYEPiece	POWER
		COMMENTS		
DATE 11				
TIME 5130				
NGC 6309		SITE	SEEING //	TRANS
CONST		INSTR	EYEPiece 2x10x18	POWER
		COMMENTS		
DATE 11				
TIME 5140				

# HERSCHEL OBSERVATIONS

ATTN  
THIS  
NOTE EP  
ONLY IF P. 138

NGC 5838		SITE ACT	SEEING II	TRANS III
CONST		INSTR 22	EYEPiece 10	POWER
DATE 7/13/13		COMMENTS		
TIME 4:20				
NGC 5846		SITE	SEEING	TRANS
CONST +5850		INSTR ↓	EYEPiece 10	POWER ↓
DATE 11		COMMENTS		
TIME 4:35				
NGC 5921		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 10	POWER ↓
DATE 11		COMMENTS		
TIME 5:15				
NGC M20		SITE	SEEING	TRANS
CONST		INSTR ↓	EYEPiece 10	POWER ↓
DATE 11		COMMENTS		
TIME 5:25		QUAD STAR - HORRIBLE DWB		

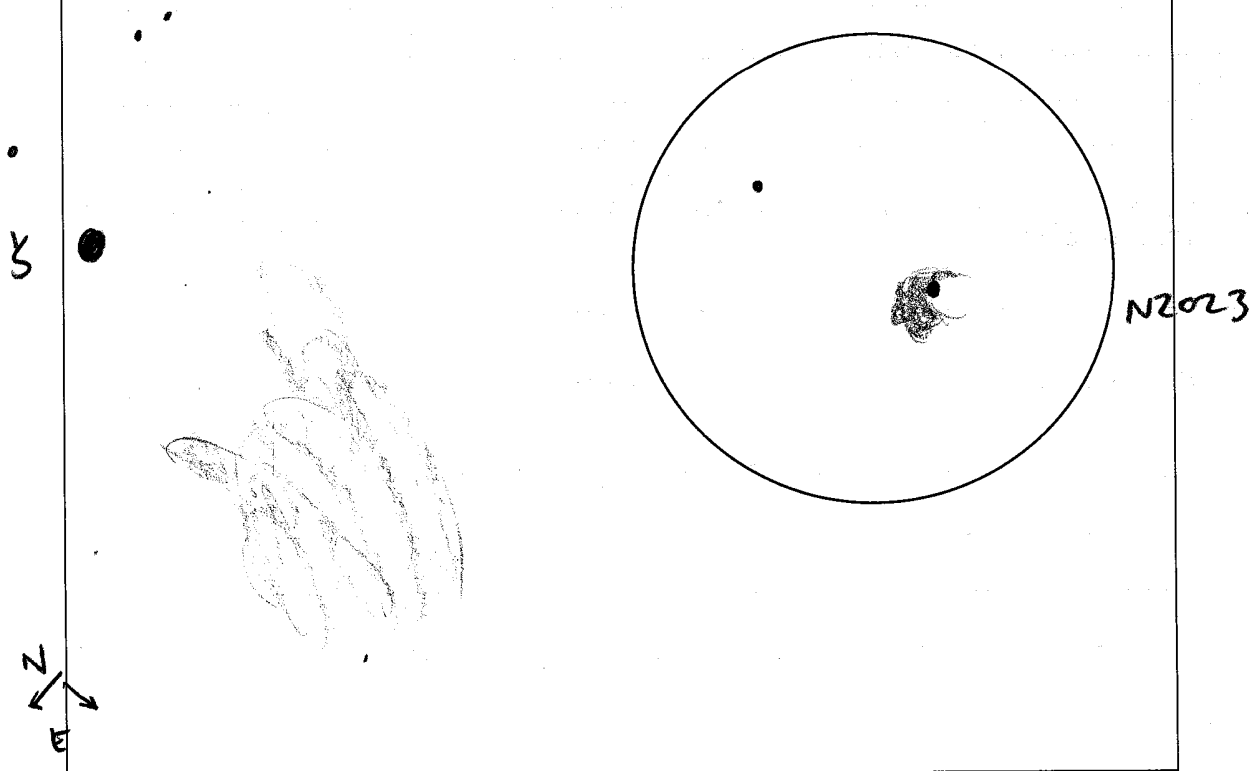
138

# Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>N 2023-24</u>	Location: <u>ACT</u>
Date: <u>12/28/13</u>	Time: <u>2:40 UT</u>
Seeing: <u>III</u>	Transparency: <u>I-</u>
Darkness of site: <u>B +4.5</u>	Moon phase: <u>—</u>
Instrument: <u>ETX-125</u>	Eyepiece & Magnification: <u>10/190x</u>
Device-aided? <u>NO</u>	Filters: <u>NONE</u>
Direct or <u>Averted</u> Vision?	Nebula Brightness: <u>4</u>

Description: (Sketch is optional unless a negative observation)



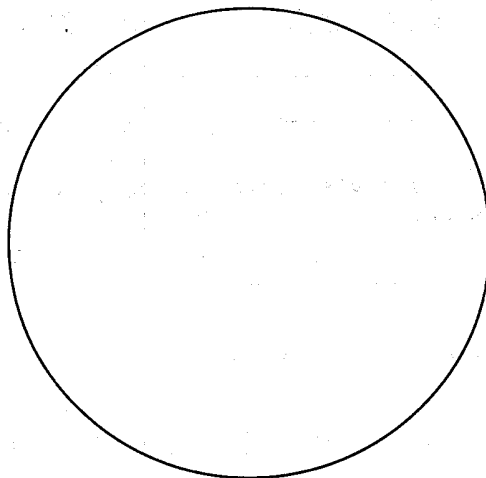
N2024

# Bright Nebulae Observing Program Log

Observer's Name B. YOUNT

Object: <u>M42 / M43</u>	Location: <u>ACT</u>
Date: <u>12/28/13</u>	Time: <u>2110 UT</u>
Seeing: <u>III</u>	Transparency: <u>I-</u>
Darkness of site: <u>B +4.5</u>	Moon phase: <u>—</u>
Instrument: <u>ETX-125</u>	Eyepiece & Magnification: <u>10 / 190x</u>
Device-aided? <u>No</u>	Filters: <u>NONE</u>
<u>Direct</u> or Averted Vision?	Nebula Brightness: <u>1</u>

Description: (Sketch is optional unless a negative observation)





## Bright Nebulae Observing Program Log

Observer's Name B. Young

Object: <u>N 1973/75/77</u>	Location: <u>ACT</u>
Date: <u>12/28/13</u>	Time: <u>2:25 UT</u>
Seeing: <u>III</u>	Transparency: <u>I-</u>
Darkness of site: <u>B+4.5</u>	Moon phase: <u>-</u>
Instrument: <u>ETX-125</u>	Eyepiece & Magnification: <u>10/190x</u>
Device-aided? <u>NO</u>	Filters: <u>NONE</u>
Direct or Averted Vision? <u>use</u>	Nebula Brightness: <u>1973, 1975 = 3    1977 = 4</u>

Description: (Sketch is optional unless a negative observation)

