

# Stargazing 101: May

## Constellation Coma Berenices and it's treasures

*Learn how to find Coma Berenices, and explore one of the of the best galaxies clusters*



The 1824 star chart of Virgo is card number 10 from Urania's Mirror; or, a view of the Heavens, a set of 32 astronomical star chart cards published in London.

**AN ACCEPTABLE PRESENT.**  
Just published, fitted up in an elegant box, price 1l. 8s. plain, or 1l. 14s. beautifully coloured,  
**URANIA'S MIRROR; or, a view of the Heavens:**  
on a plan perfectly original. Designed by a Lady.  
The work consists of thirty-two large Cards, on which are represented all the constellations visible in the British empire. Each constellation is drawn with the figure ascribed to it by the ancients; and the stars are perforated, so as to exhibit, when held up to the light, their natural appearance in the heavens. The Cards are accompanied with a familiar treatise on Astronomy, written expressly for this purpose, by J. Aspin.  
London: printed for Samuel Leigh, 18, Strand; and sold by all Booksellers and Stationers.

## Greek mythology

Queen Berenice was the wife of King Ptolemy III of Egypt.

Berenice was beautiful, with long amber tresses.

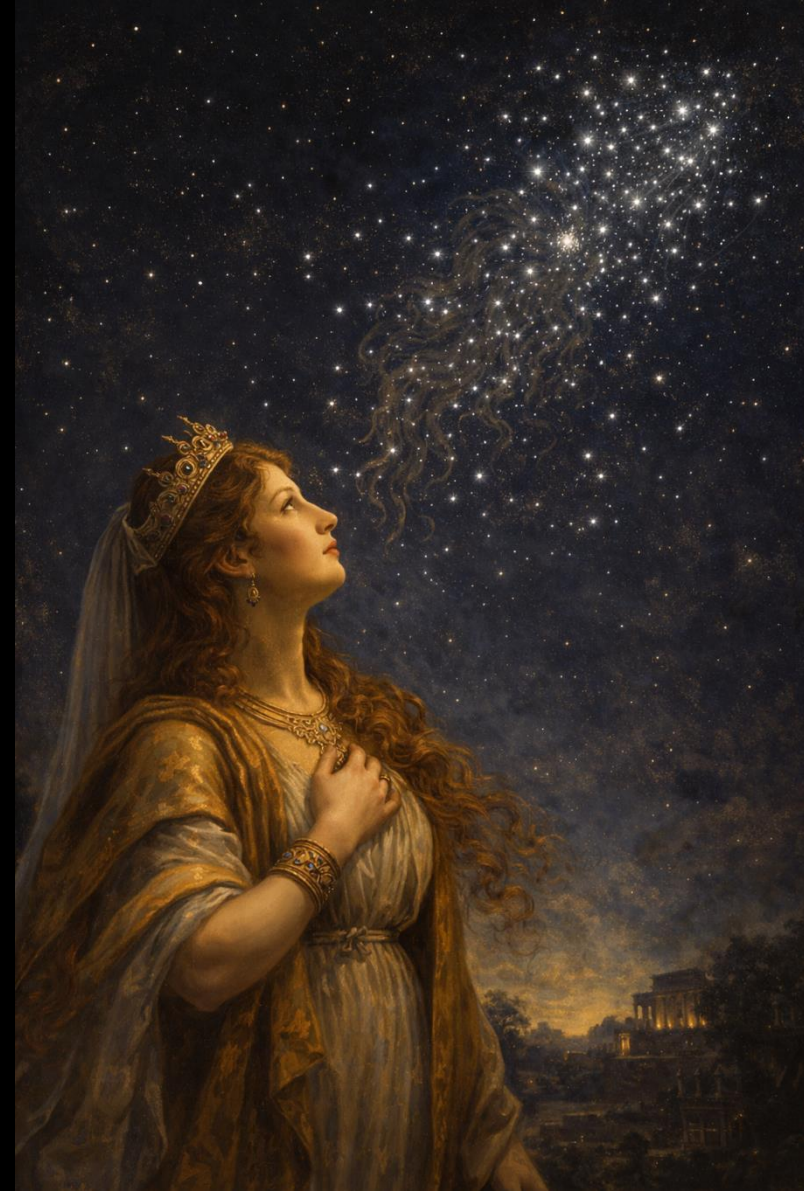
She wanted to ensure Ptolemy returned safely from battle during the Third Syrian War.

An Oracle Advised her to cut her long hair and make it an offering to Aphrodite (the goddess of love and beauty).

Zeus and Aphrodite were touched by the gesture, so once Ptolemy returned safely, they placed her hair in heaven to be admired by everyone.

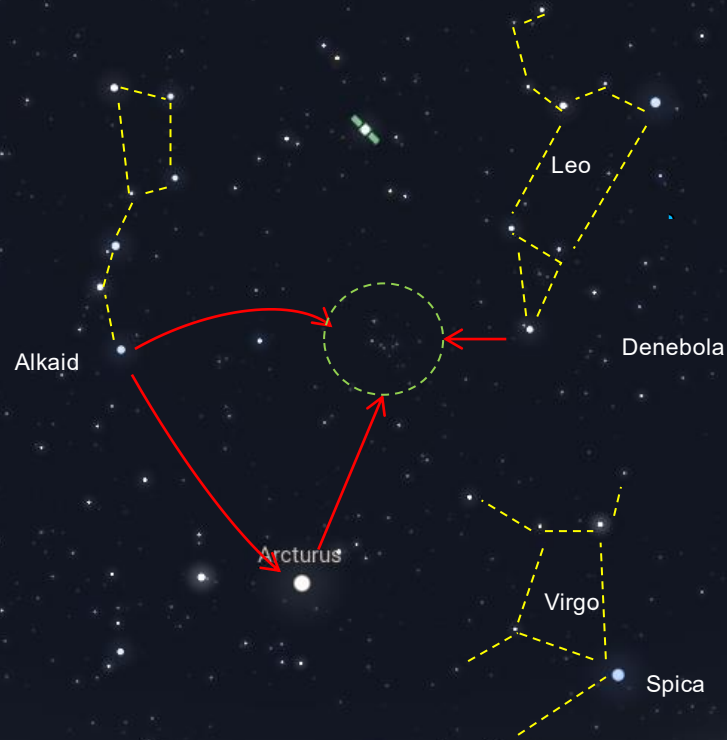
Image ChatGPT

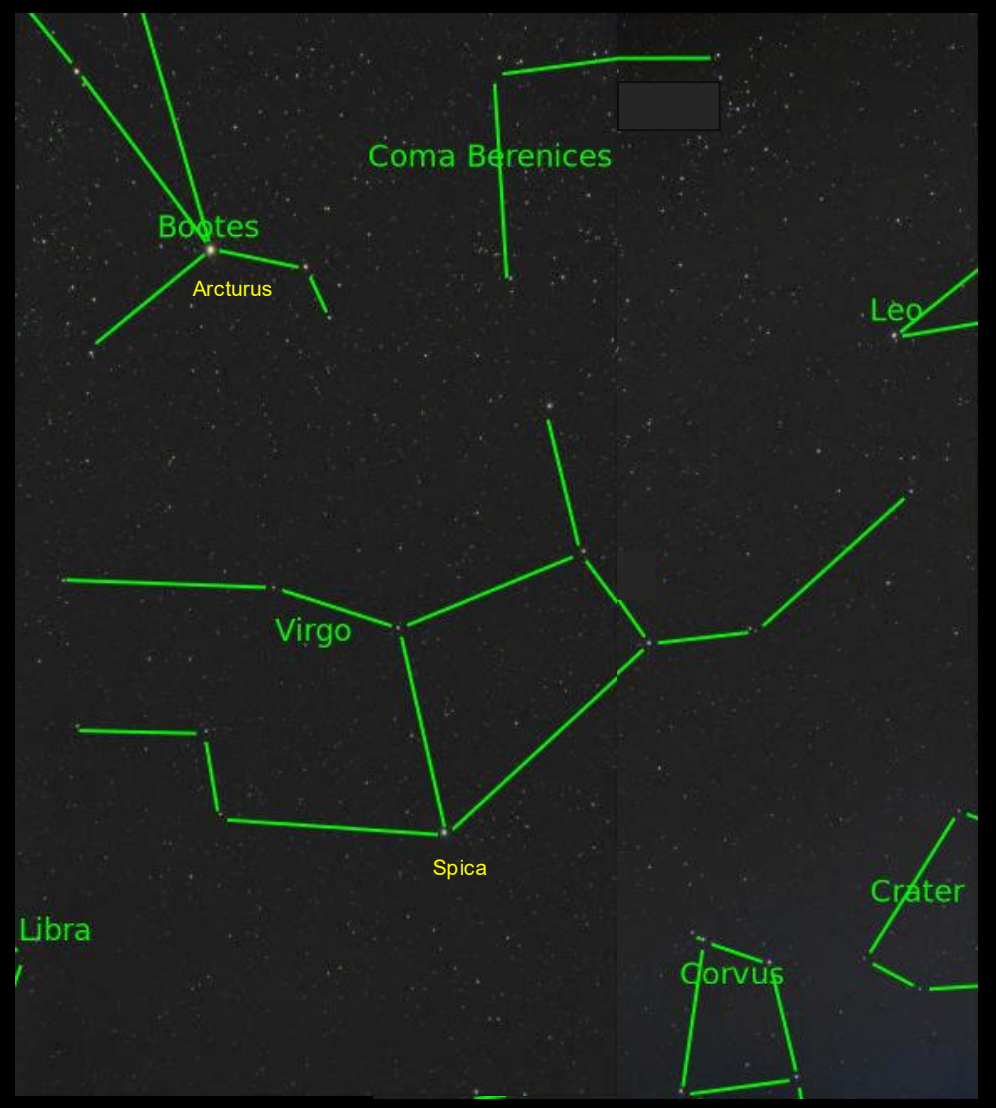
*Note: Not a direct Ojibwe Mythology pattern*



# To find Coma Berenices:

Find big dipper  
Arc to Arcturus  
Arcturus / Dubhe form  
Triangle with the open  
Cluster Melotte 111  
Or look between Dubhe  
and Denebola





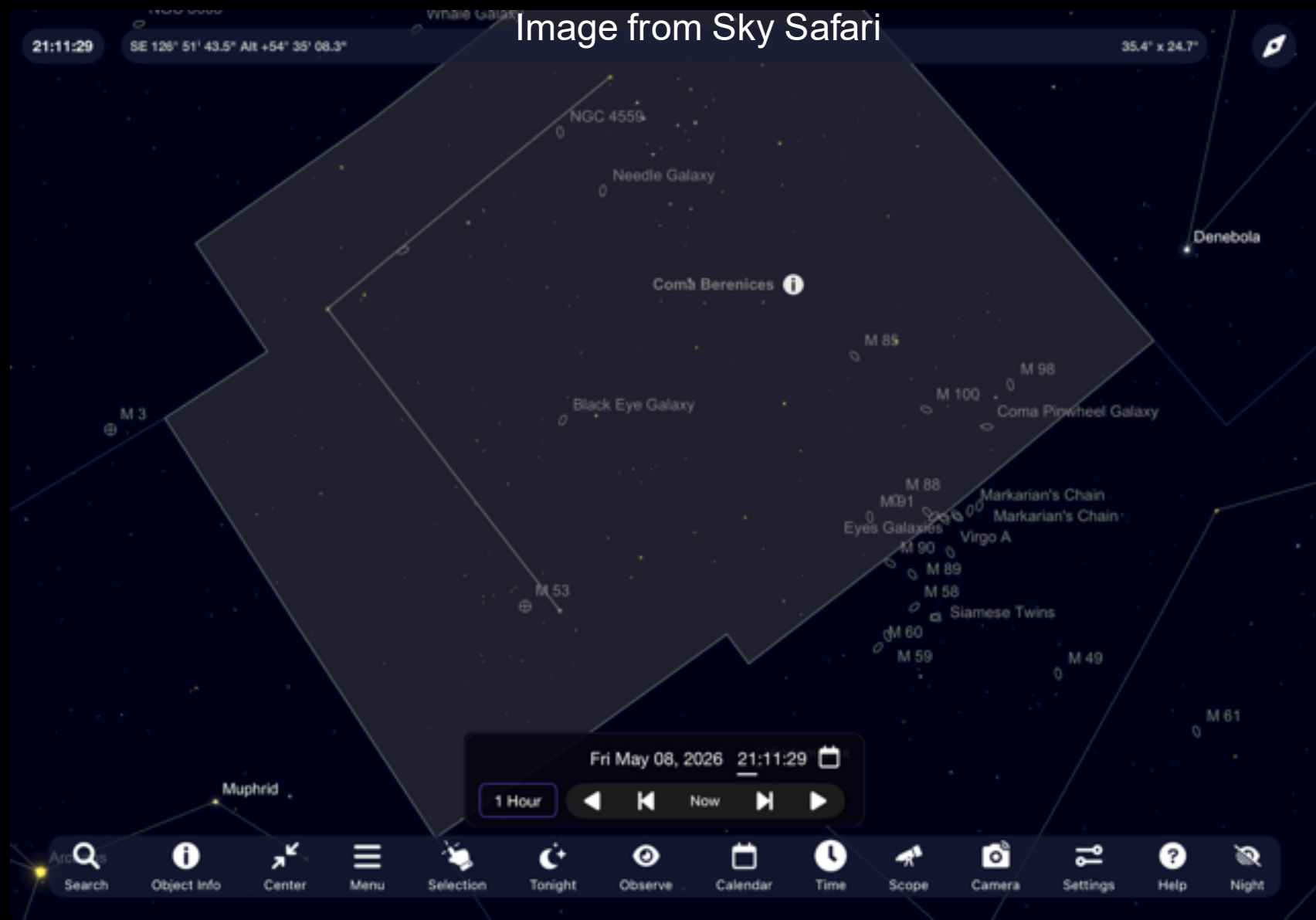
Left View of region Right same view with the Constellation lines added taken with A Seestar S30 Allenford Ontario

# Image from Sky Safari

21:11:29

SE 126° 51' 43.5" Alt +54° 35' 08.3"

35.4° x 24.7°



Fri May 08, 2026 21:11:29

1 Hour



# Coma Star Cluster / Melotte 111 (Naked Eye /binocular)

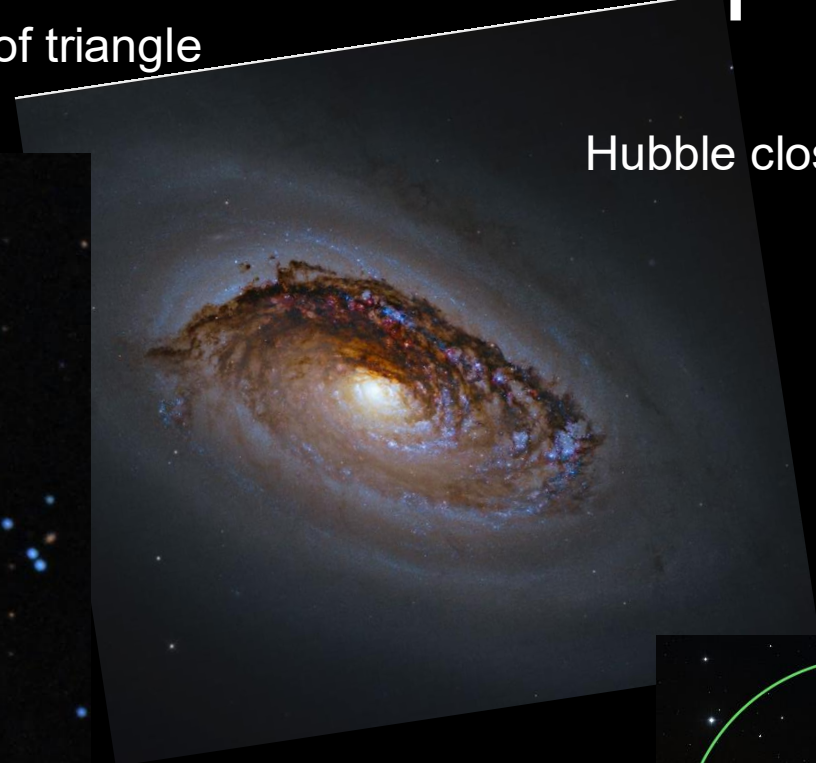
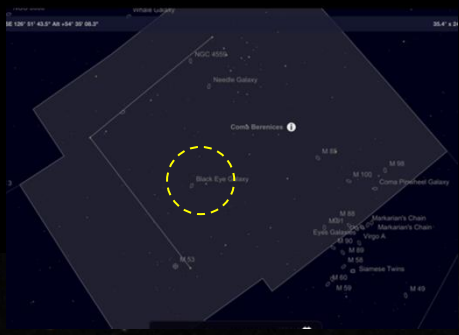
Huge 7.5 degrees  
(15x size of moon)  
280 Light years away  
40 Stars  
rough V shape

(Seestar S30 image Allenford)



# M64 (Binocular/Telescope)

Find it 1/3 up diagonal of triangle

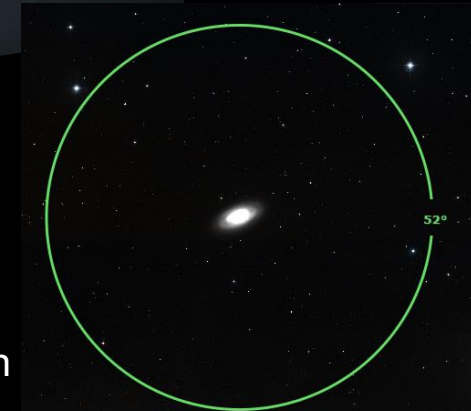


Hubble close up of core

Distance 17.3 Mly  
Size 1/2 size of Milky way  
The Dust obscures part of core

Image F. Williams 2hrs C8

With small telescopes such as 8" Dobsonian  
1200 focal length and a 25 mm eyepiece



# NGC 4565 (Needle Galaxy)

To find it locate Coma Berenices above virgo, then use the triangle and locate along diagonal  $\frac{1}{4}$  way down from top right star ( $\gamma$  Com)

Distance ~40 Mly

Size slightly larger than milky way

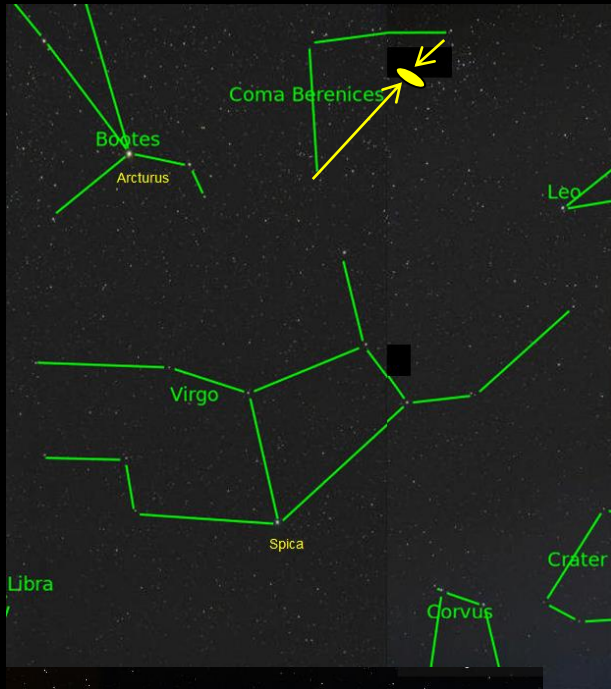
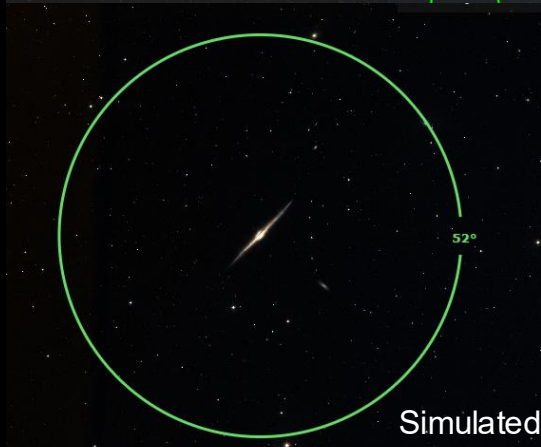


Image Courtesy Marty Anderson



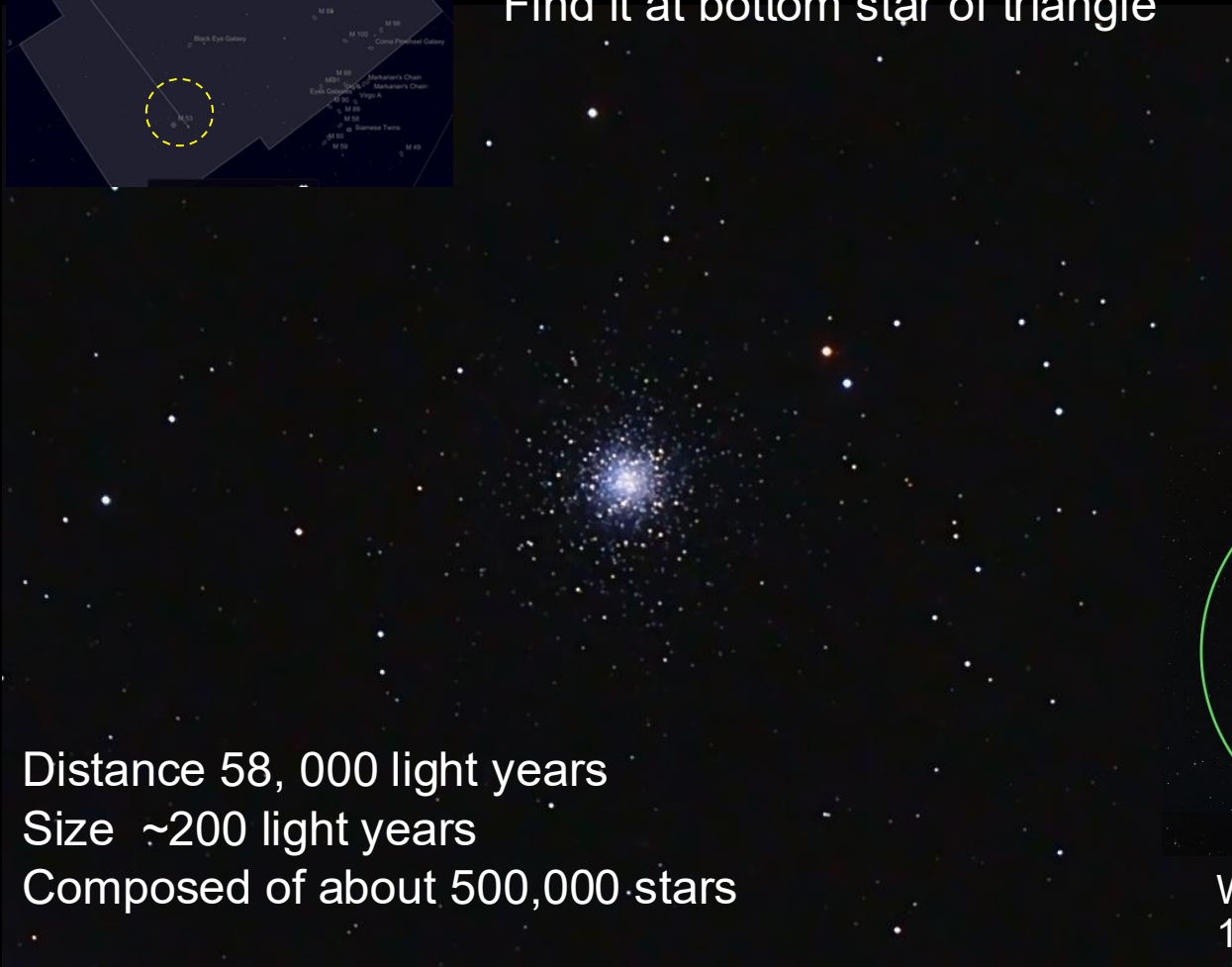
Simulated eyepiece view 8" dobsonian 1200mm fl 25mm eyepiece (telescopius.com)

# M53

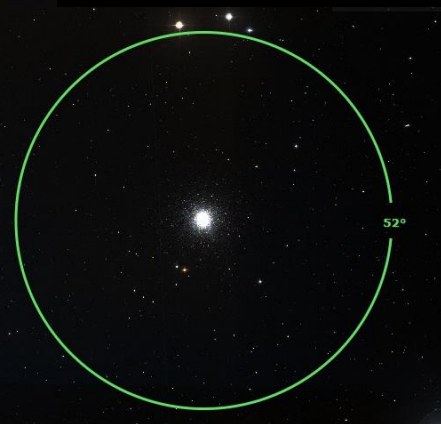
Find it at bottom star of triangle



Hubble close up of core



Distance 58,000 light years  
Size ~200 light years  
Composed of about 500,000 stars



With small telescopes such as 8" Dobsonian  
1200 focal length and a 25 mm eyepiece

Image F. Williams 33 min TV85 and DSLR

# Some Other Galaxies in Coma Berenices (telescope viewing)

(Find these by making the triangle into a Square they are clustered diagonally below that corner)

	M88	M91	M98	M99	M100
<b>Distance</b>	47 Mly	63.3 Mly	44.4 Mly	45.2 Mly	55 Mly
<b>Size</b>	135, 00 (similar to milky way)	105, 000 Ly (smaller than Milky way)	126, 000 Ly (similar to Milky way)	98,000 Ly (smaller than milky way)	166 000ly (larger than milky way)
<b>Type</b>	SA(rs)b	SBb(rs)	SAB(s)ab	SA(s)c	SAB(s)bc
<b>Magnitude</b>	9.6	10.2	10.1	9.9	9.3



FW



Hubble Image



FW

FW



Image: Adam Block/Mount  
Lemmon SkyCenter/University of Arizona

# Why Coma Berenices is Great for Spring:

- Prominent in the sky in April - June
- Easy to find using the Big Dipper->Arcturus -> Denebola
- Visible with binoculars and small telescopes
- Rich in galaxies
  
- Great for Visual as well as astrophotography