



August 2025 Astronomy Report

“A Month of Close Meetings”



- ***Moon:***
 - Phases

- ***Planets:***
 - Evening: Mars (*low in west*), Saturn and Neptune (*low in east*)
 - Morning: Mercury, Venus, Jupiter, Saturn, Uranus, and Neptune

- ***Comets/Asteroids/Meteor Showers:***
 - Perseid meteor shower
 - Comet C/2025 K1 (ATLAS)
 - Vesta asteroid

- ***Dark Sky Star Party:***
 - Jeff & Sue's house, August 23

- ***Public Viewing:***
 - Cub Lake, August 30

Moon - Phases

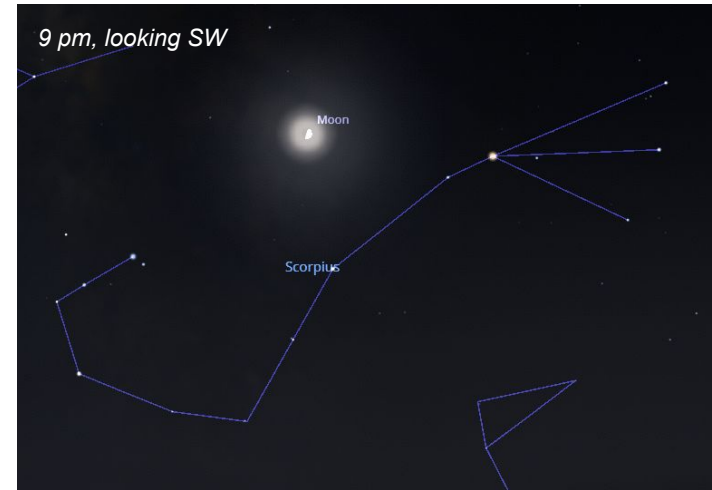
August 1 - First Quarter

August 23 - New Moon

August 9 - Full Moon (Aquarius)

August 16 - Last Quarter (Taurus)

August 31 - First Quarter (Scorpius)



Apogee (251K miles) - 1st, 29th

Perigee (229K miles) - 14th



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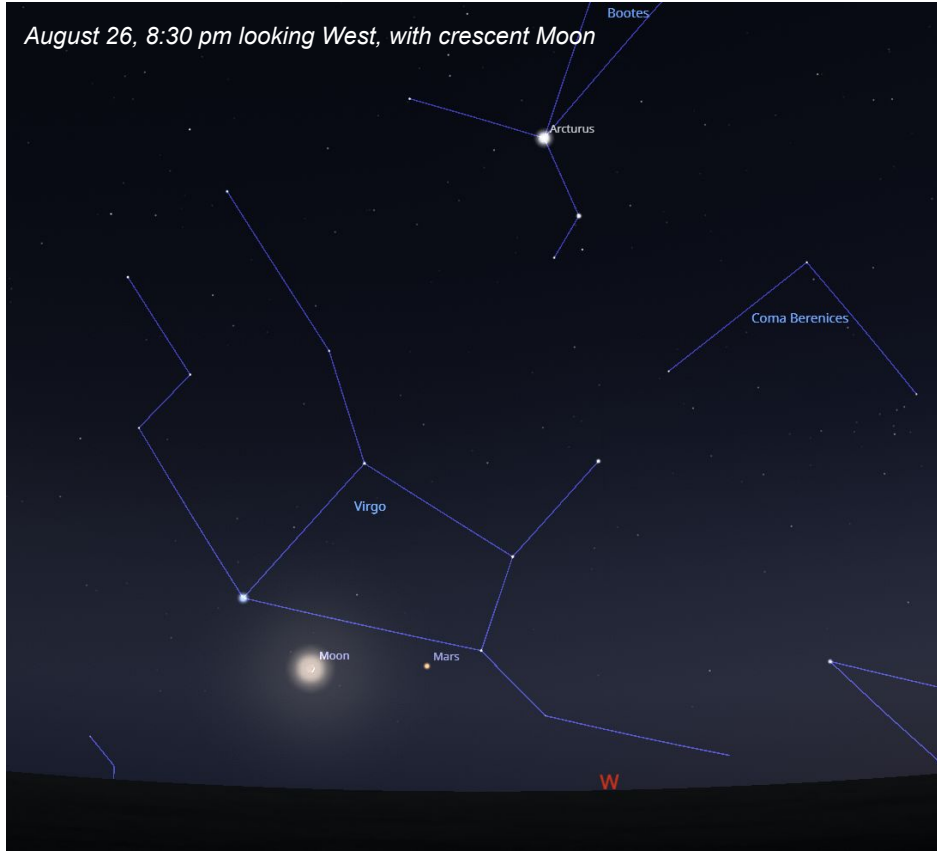
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Evening Planets: Mars - (Virgo)

Mars remains low in western sky in Virgo throughout August.



Evening / Morning Planets: Saturn/Neptune - (Pisces)

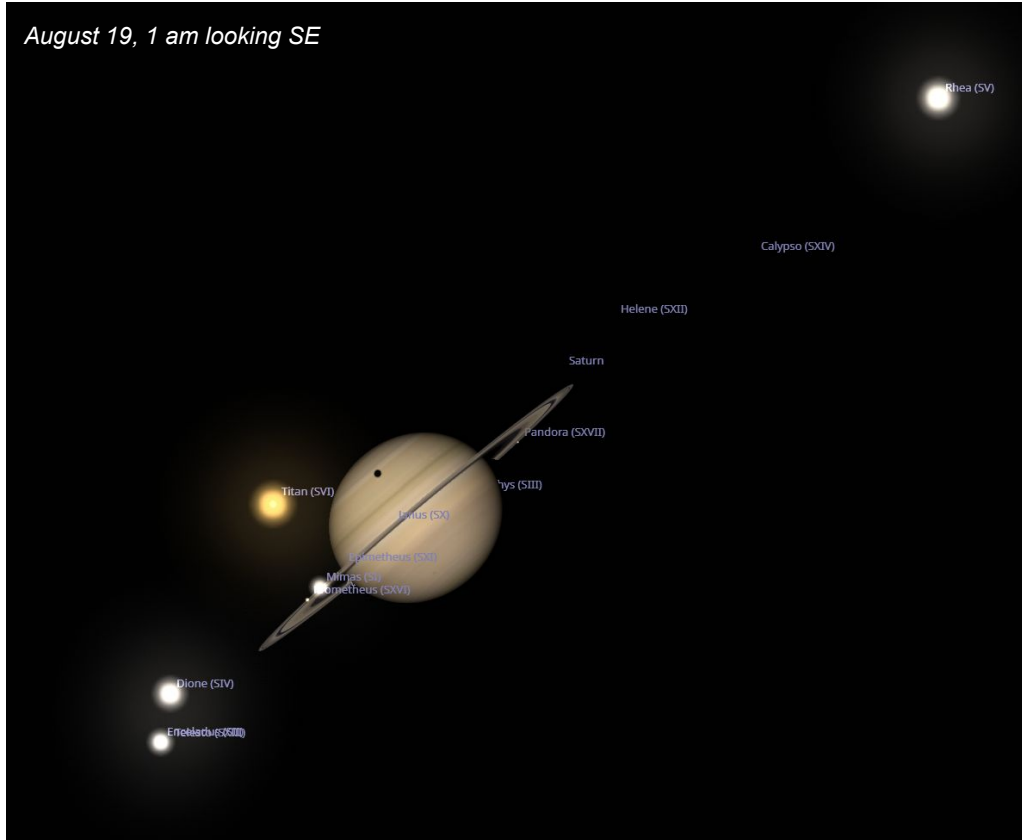
Saturn & Neptune remain close together throughout August. Both rise around 10:30 pm on August 1, better visibility after midnight. 2nd of 3 conjunctions within a year occurred on the morning of August 6.



Neptune lies 1.9 billion miles beyond Saturn (20AU)!

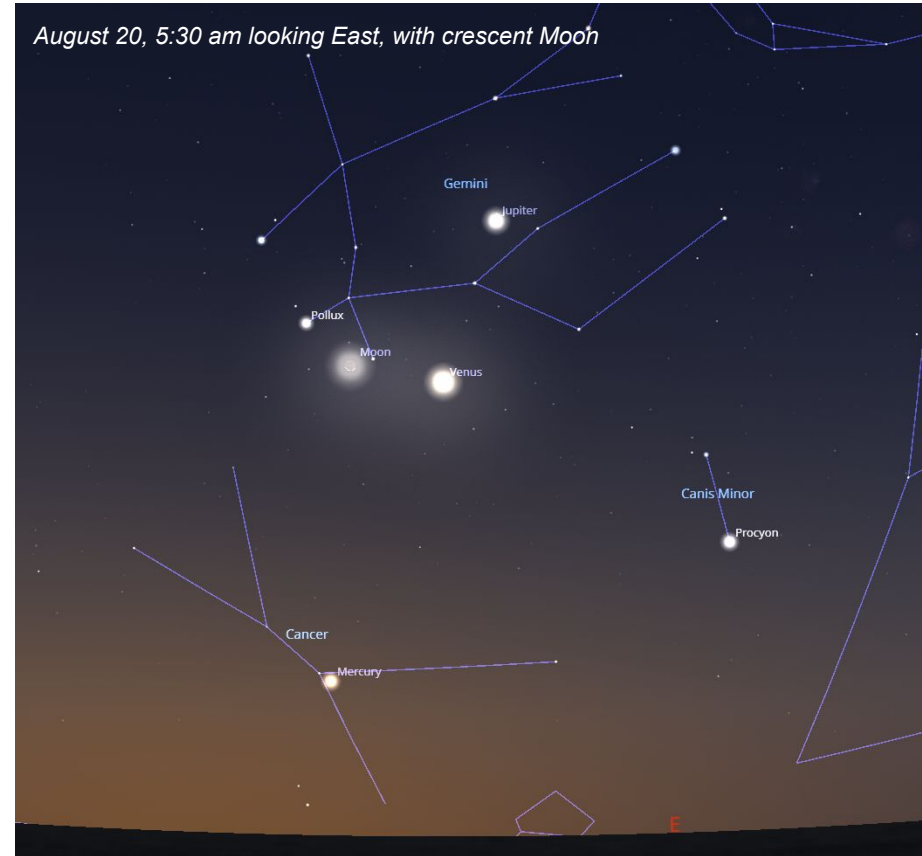
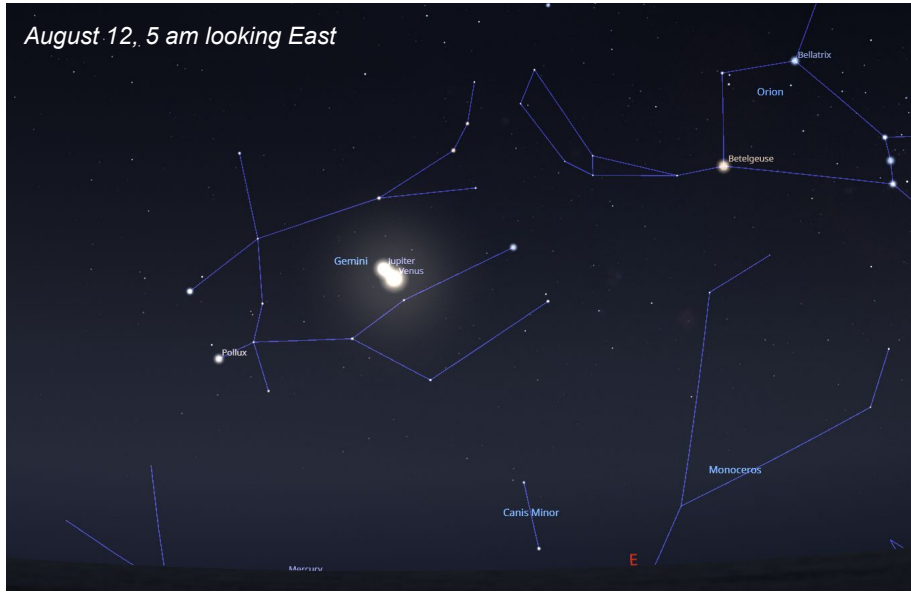
Evening / Morning Planets: Saturn - (Pisces)

Titan's shadow transits across Saturn on the night of August 18/19, starting at 11 pm and ending at 3 am.



Morning Planets: Venus/Jupiter - (Gemini); Mercury - (Cancer)

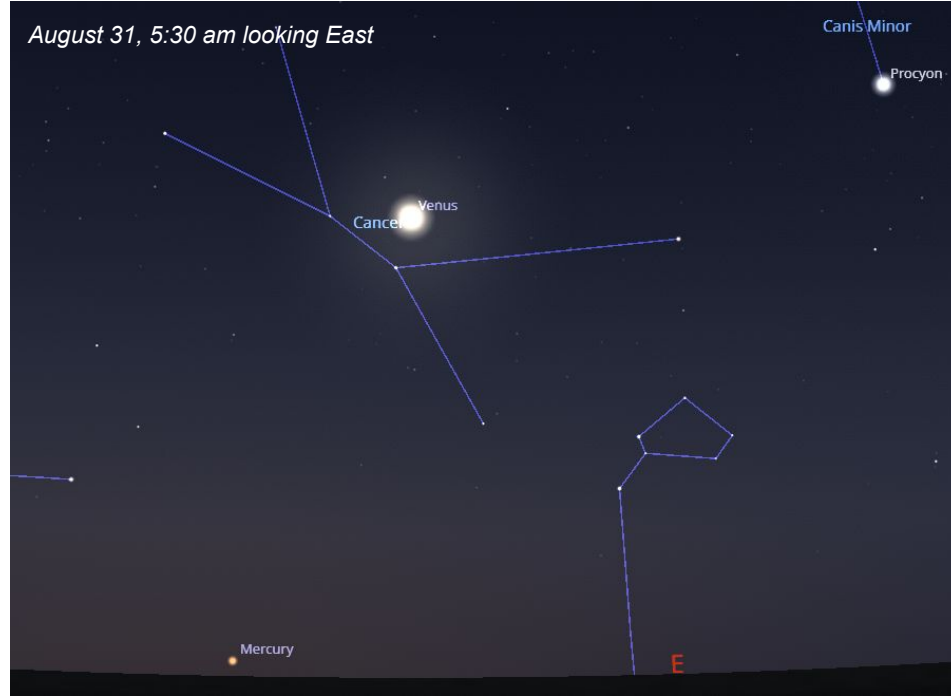
Venus and Jupiter are in conjunction in Taurus on August 12, 0.9 deg apart. There have been 12 conjunctions within the past decade, but not all observable. Next time they appear this close is November 2028, again in the morning.



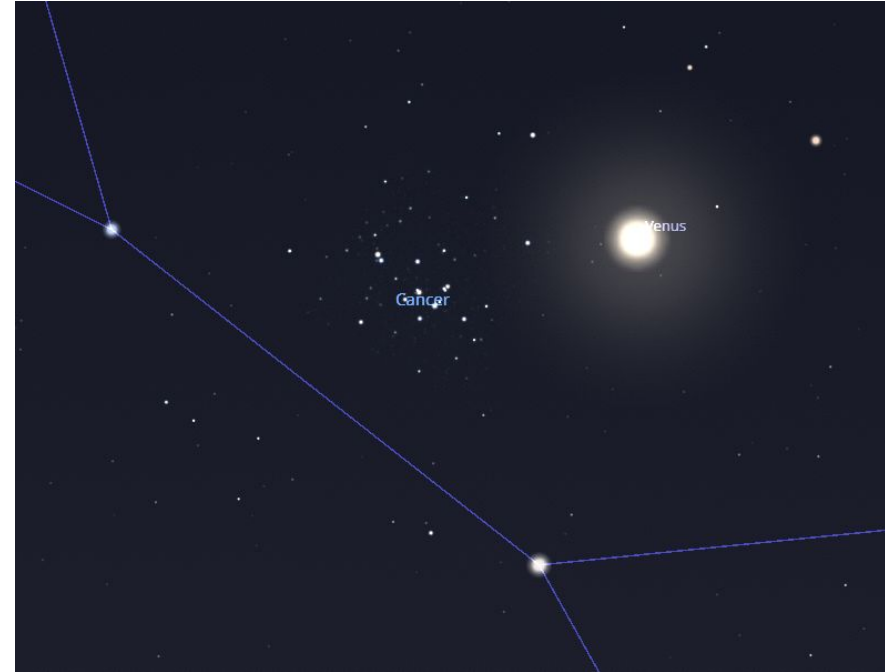
Morning of August 21 crescent Moon appears 5 deg from Mercury.

Morning Planets: Venus - (Cancer)

Venus moves into Cancer by end of August.



Rises with M44 (Beehive Cluster), use binoculars for the best view



Morning Planets: Uranus - (*Taurus*)

Uranus rises shortly after midnight by the end of August.



Uranus stands about 4 degrees south of the Pleiades (M45)





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Meteor Shower - Perseid

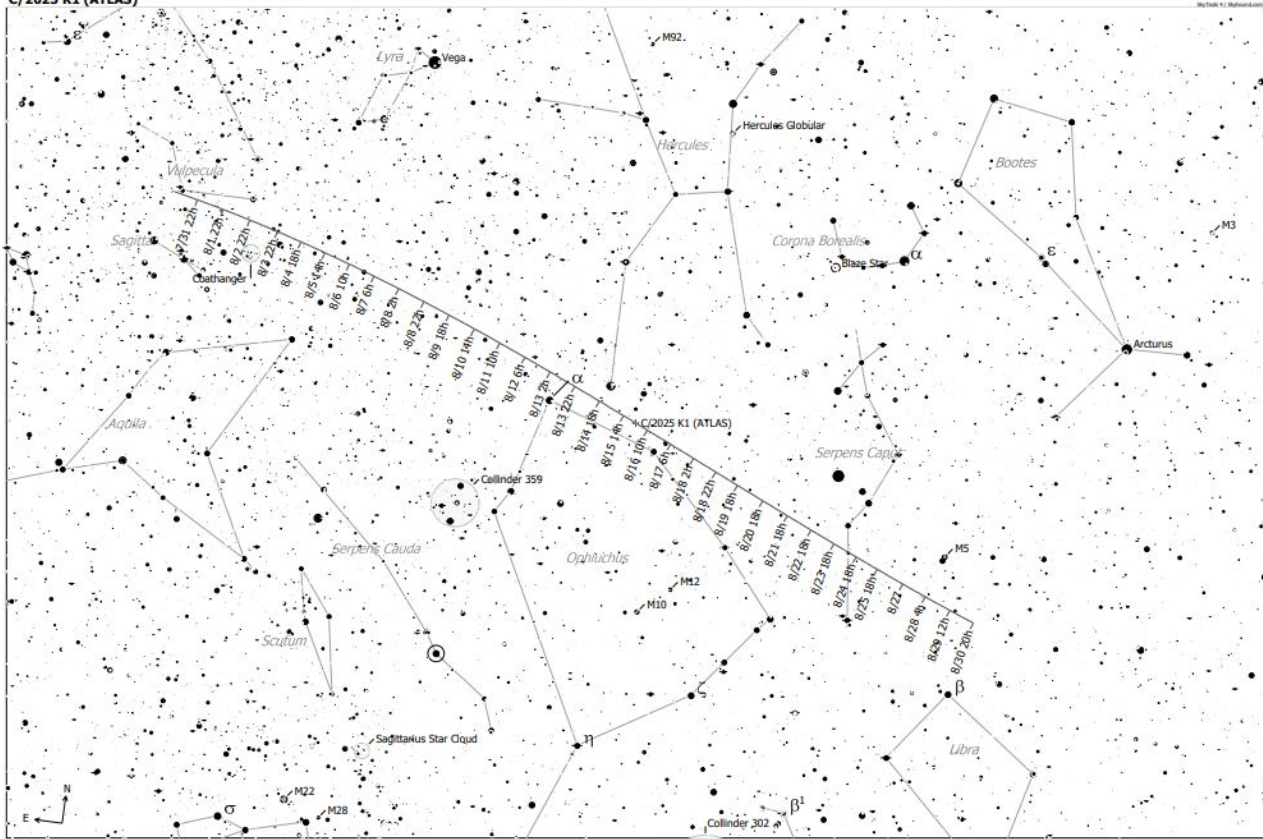
- Active July 17 - August 24
- Peak night August 12, waning gibbous Moon rises around 10 pm and remains up all night - expect about a dozen visible meteors per hour
 - same date as Venus/Jupiter conjunction



Comet - C/2025 K1 (ATLAS)

- Evening comet visible in small telescopes at a dark site,
- Starts August in Vulpecula at magnitude 12.9, should brighten rapidly moving into Libra by month's end

C/2025 K1 (ATLAS)



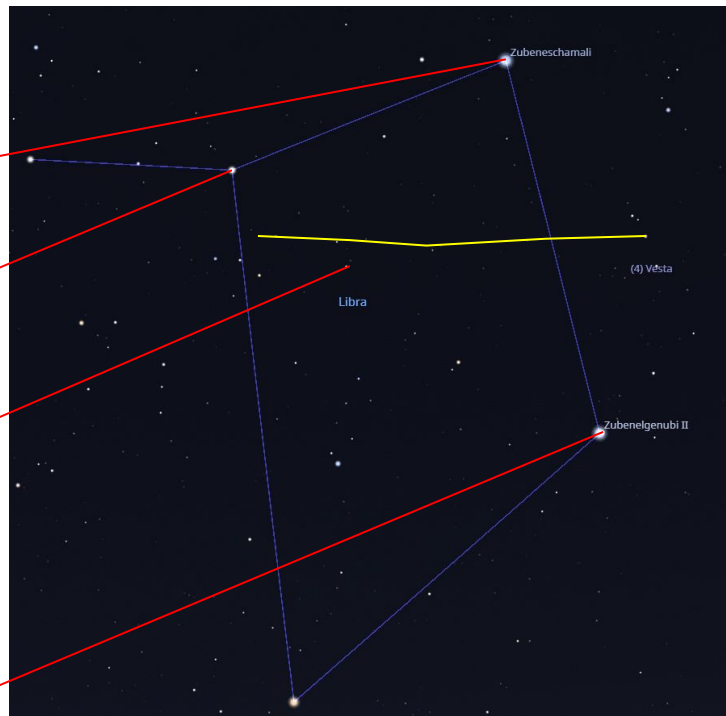
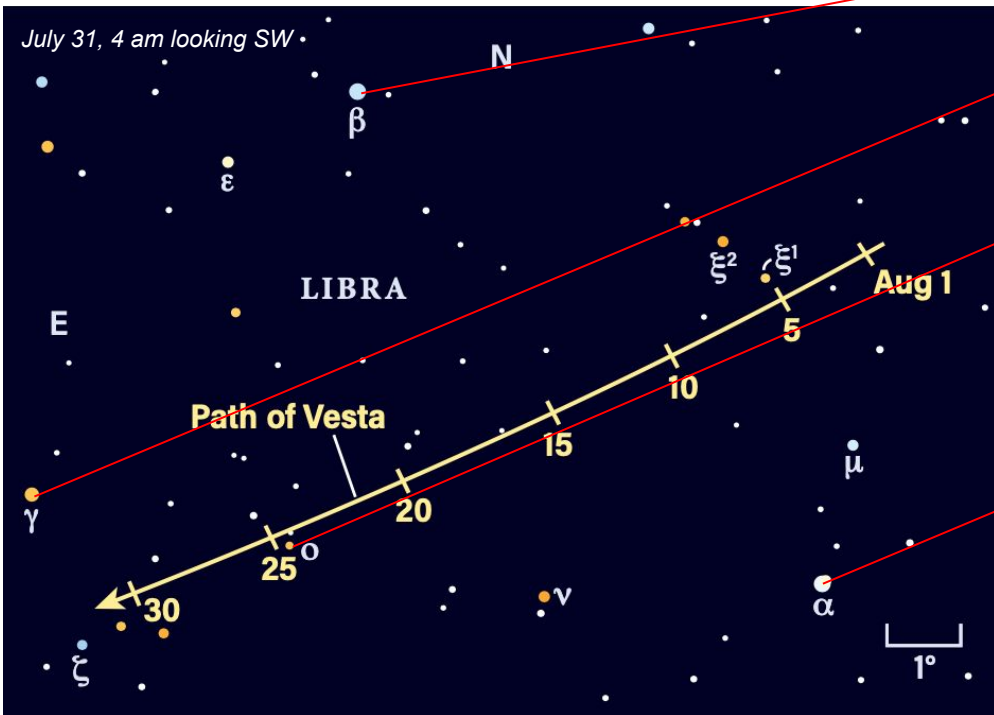
"Comets are like cats. They both have tails and do what they want, and not always what we expect."

Credit: cometchasing.skyhound.com

Asteroid - Vesta (Libra)

Visible with binoculars

July 31, 4 am looking SW



Asteroids on occasion pass in front of stars in an occultation. Visit The International Occultation Timing Association website <http://lunar-occultations.com/iota/iotandx.htm> and explore the links under "Asteroid Occultation Information" to find events.

Asteroid Occultation Information

[Steve Preston's World Wide Prediction Site](#)
[Derek Breit's Regional Asteroid Path Maps for USA](#)
[North American Asteroïdal Reference Homepage](#)
[Asteroïdal Occultation Results for North America](#)
[Worldwide Results Home Page](#)
[Report Form For Asteroid Observations](#)
[Japanese Asteroïdal Prediction Site \(Japanese\)](#)
[Japanese Asteroïdal Results \(English\)](#)



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Dark Sky Viewing

Sue & Jeff's house, August 23

Ps 19:2

1 - M57 (Ring Nebula)



Planetary nebula in Lyra
2500 light years from Earth
small telescopes

2 - NGC 6751 (Glowing Eye Nebula)



Planetary nebula in Aquila
6500 light years from Earth
small telescopes

3 - Wild Duck Cluster (M11)

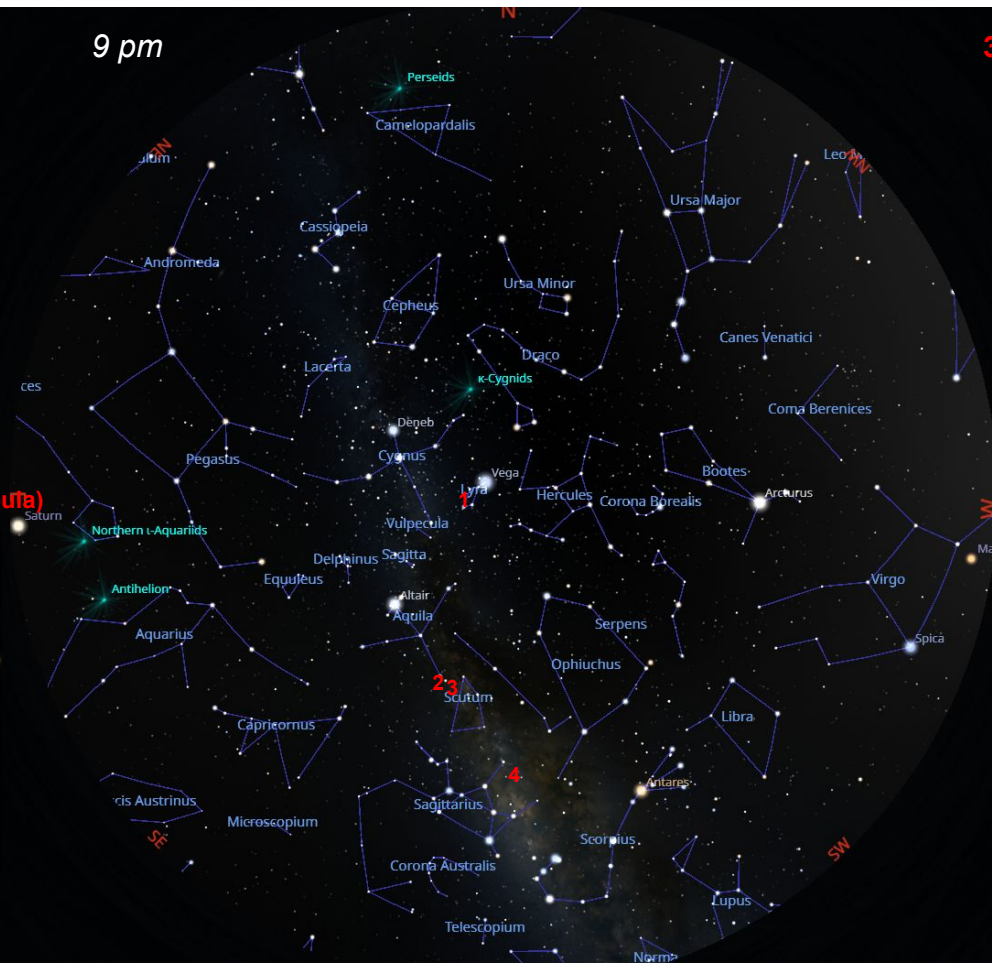


Open star cluster in Scutum
6200 light years from Earth
Binoculars, small telescopes

4 - M20 (Trifid Nebula)



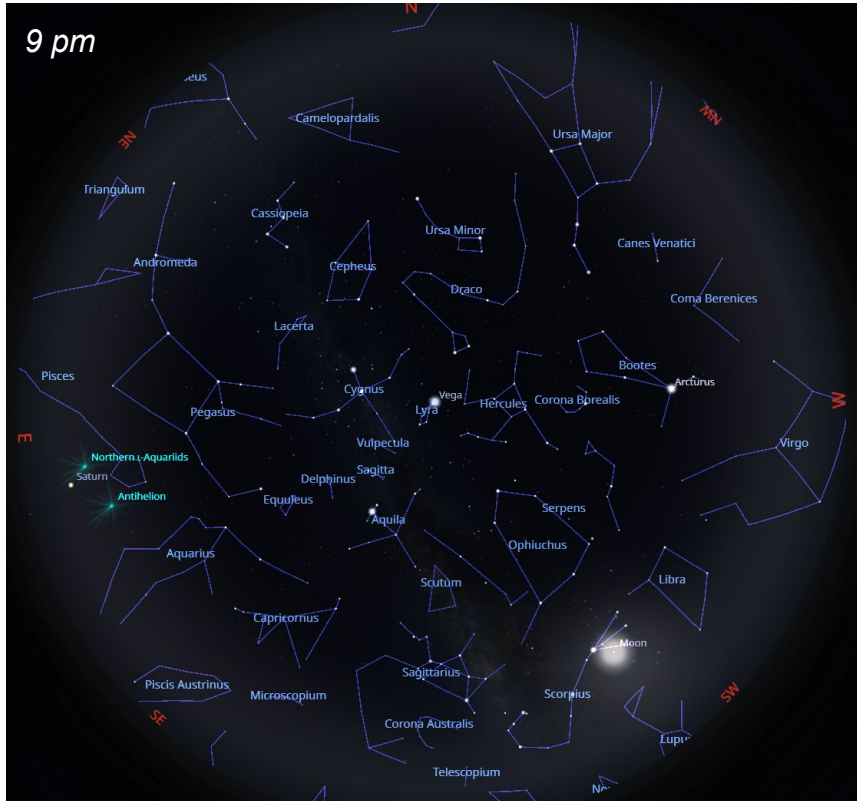
Star-forming region in Sagittarius
5200 light years from Earth
Small telescopes



Public Viewing

Cub Lake, August 30

9 pm



Moon sets around 11 pm



August 2025 Viewing Chronology

- 1 - 1st Qtr moon
- 9 - Full moon (10 pm)
- 12 - Perseid shower (4 am); Venus/Jupiter (5 am); Saturn/moon (5 am)
- 16 - Last Qtr moon (5 am)
- 19 - Saturn/Titan transit (1 am)
- 20 - Venus/Jupiter/Mercury/moon (5:30 am)
- 23 - Saturn/Neptune (5 am); Uranus/M45 (5 am); Dark Sky Star Party (9 pm)
- 26 - Mars/moon (8:30 pm)
- 30 - Cub Lake Public Viewing (9 pm)
- 31 - Venus/M44 (5:30 am); 1st Qtr moon (9 pm)

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