

What's Up?

June 1-30, 2024

Made with the 2024 RASC Observer's Handbook, 2024
Night Sky Almanac, Sky Safari®, and Stellarium®

photo: David Hoskin

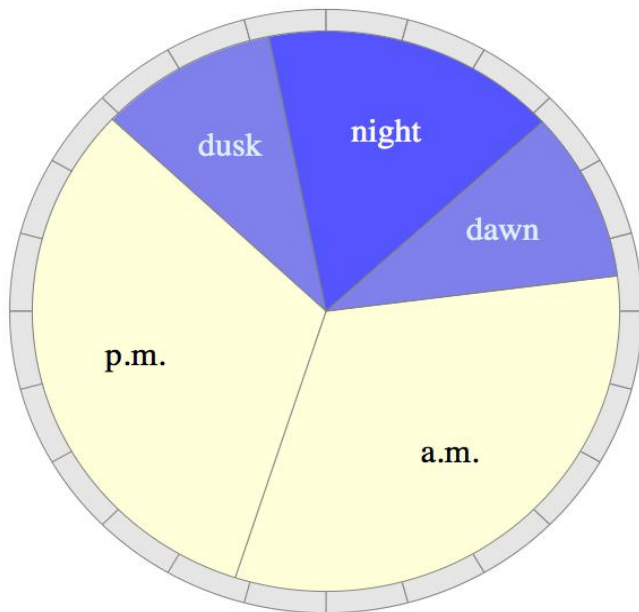
The Sun This Month

[Today's Solar Activity](#)

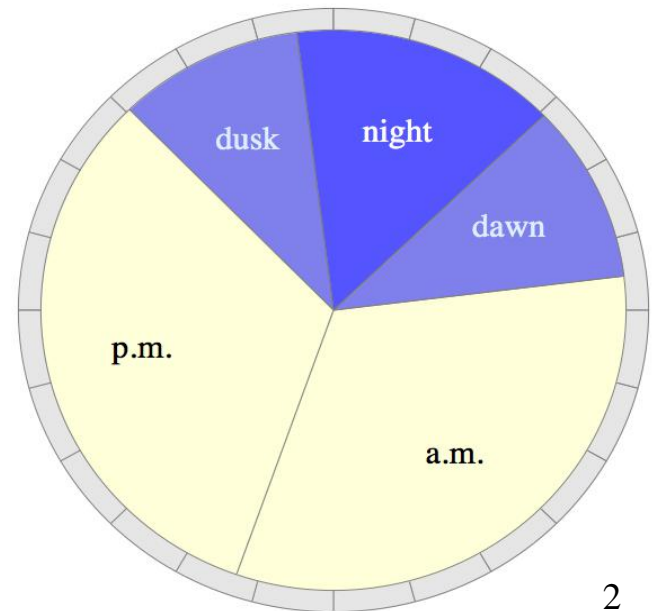
Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
June 1	8:53 p.m.	11:15 p.m.	3.9 h	3:10 a.m.	5:31 a.m.	1:12 p.m.	15.4 h	67.5°
June 30	9:03 p.m.	11:31 p.m.	3.6 h	3:04 a.m.	5:32 a.m.	1:18 p.m.	15.5 h	68.5°

Summer Solstice: June 20 at 5:50 p.m.

Halifax Jun 01



Halifax Jun 30



2

[YouTube: RASC Halifax](#)

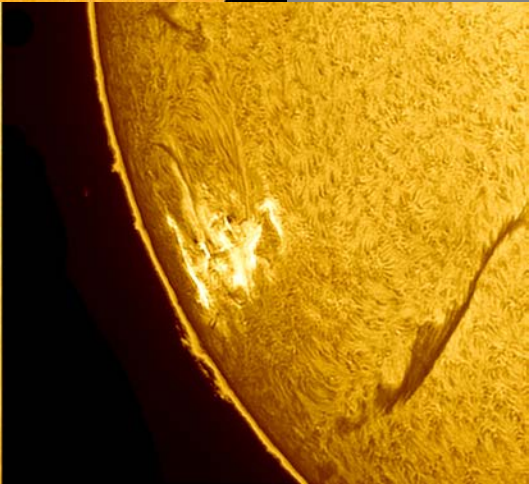
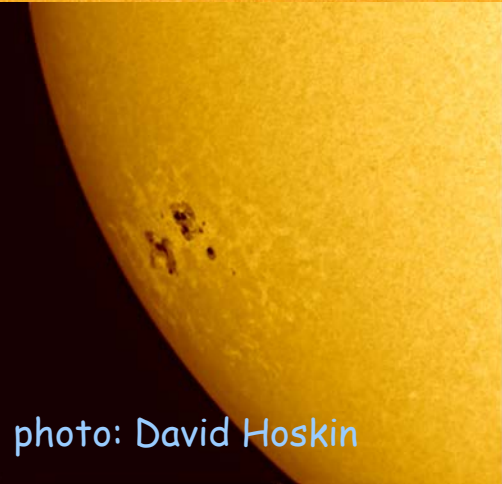
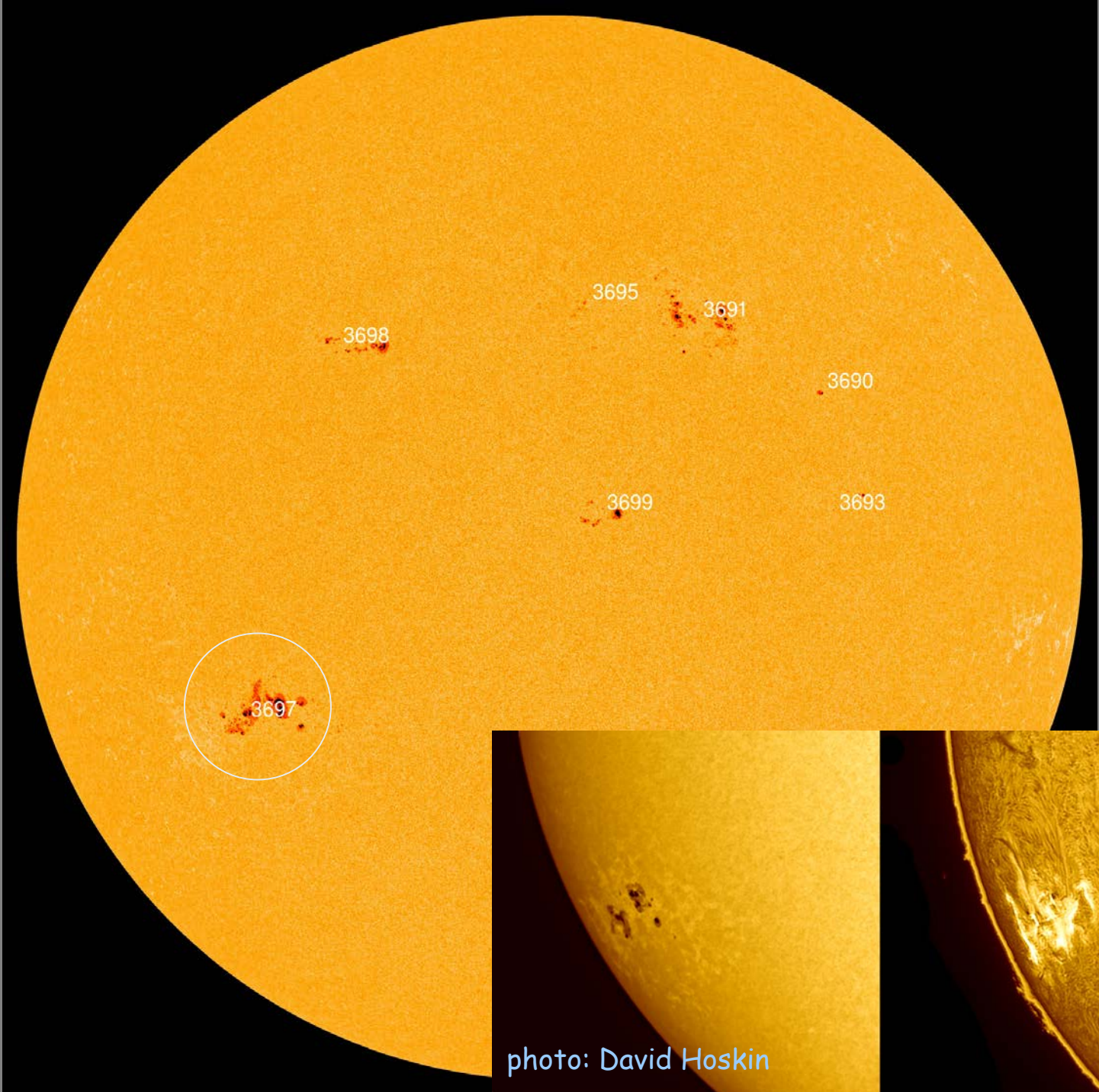


photo: David Hoskin

Noctilucent Clouds

Sunlight below the horizon reflects off tiny ice crystals at 76-85 km



photo: David Hoskin

Visible in summer months during astronomical twilight (50-70° latitude)

The Moon This Month

Date	Phase	English	Mi'kmaq
June 2	Moon at perigee (368,100 km)	Frogs Croaking	<u>Sqoljuiku's</u>
June 2-3	Moon near Mars		
June 6	<i>New Moon</i>	Trees Fully Leafed	<u>Nipniku's</u>
June 9	Moon near Beehive Cluster		
June 14	Moon at apogee (404,100 km)		
June 14	<i>First Quarter Moon</i>		
June 19	Moon near M4 and Antares		
June 22	Full Moon		
June 27	Moon at perigee (369,300 km)		
June 27	Moon near Saturn		
June 28	<i>Last Quarter Moon</i>		



June 9 @ 10:30 p.m. Photo Opportunity - APS-C sensor and 135mm lens

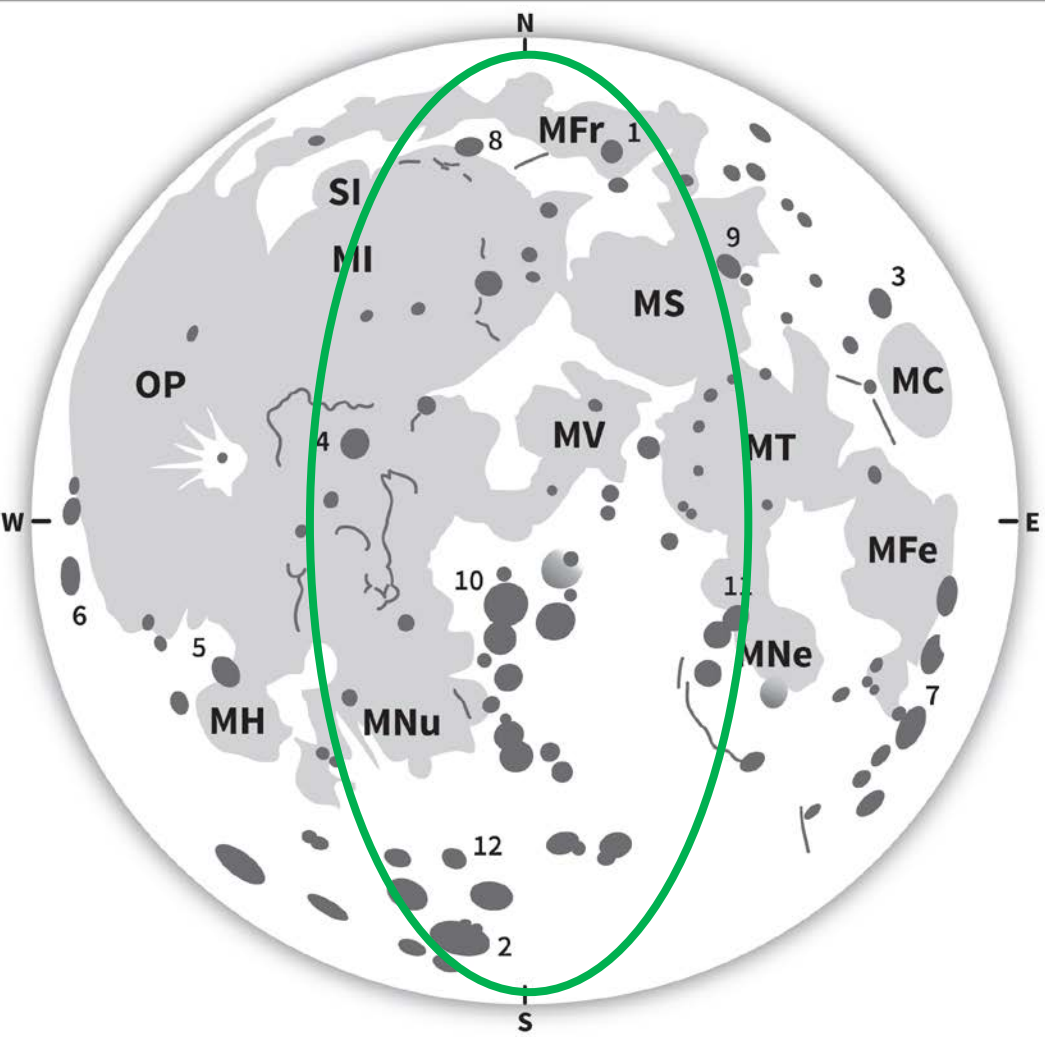


June 19 @ 10:30 p.m.
7x50 binoculars



challenge

June 27 @ 4:30 a.m.
7x50 binoculars



MARE

MC: Mare Crisium

MFe: Mare Fecunditatis

MFr: Mare Frigoris

MH: Mare Humorum

SI: Sinus Iridum

MI: Mare Imbrium

MNe: Mare Nectaris

MNu: Mare Nubium

MS: Mare Serenitatis

MT: Mare Tranquillitatis

MV: Mare Vaporum

OP: Oceanus Procellarum

Best between June 12-16

The Moon in

Explore the Universe

observe 3 of each in ⁸binos

CRATERS

1. Aristoteles

2. Clavius

3. Cleomedes

4. Copernicus

5. Gassendi

6. Grimaldi

7. Petavius

8. Plato

9. Posidonius

10. Ptolomaeus

11. Theophilus

12. Tycho

challenge

The Planets in June

Mercury-visible low in the E (mag. -1.0) before sunrise the first week of June, then disappears into morning twilight until reappearing low in the W after sunset the last week of June.

challenge

Venus -too close to the Sun to be visible in June

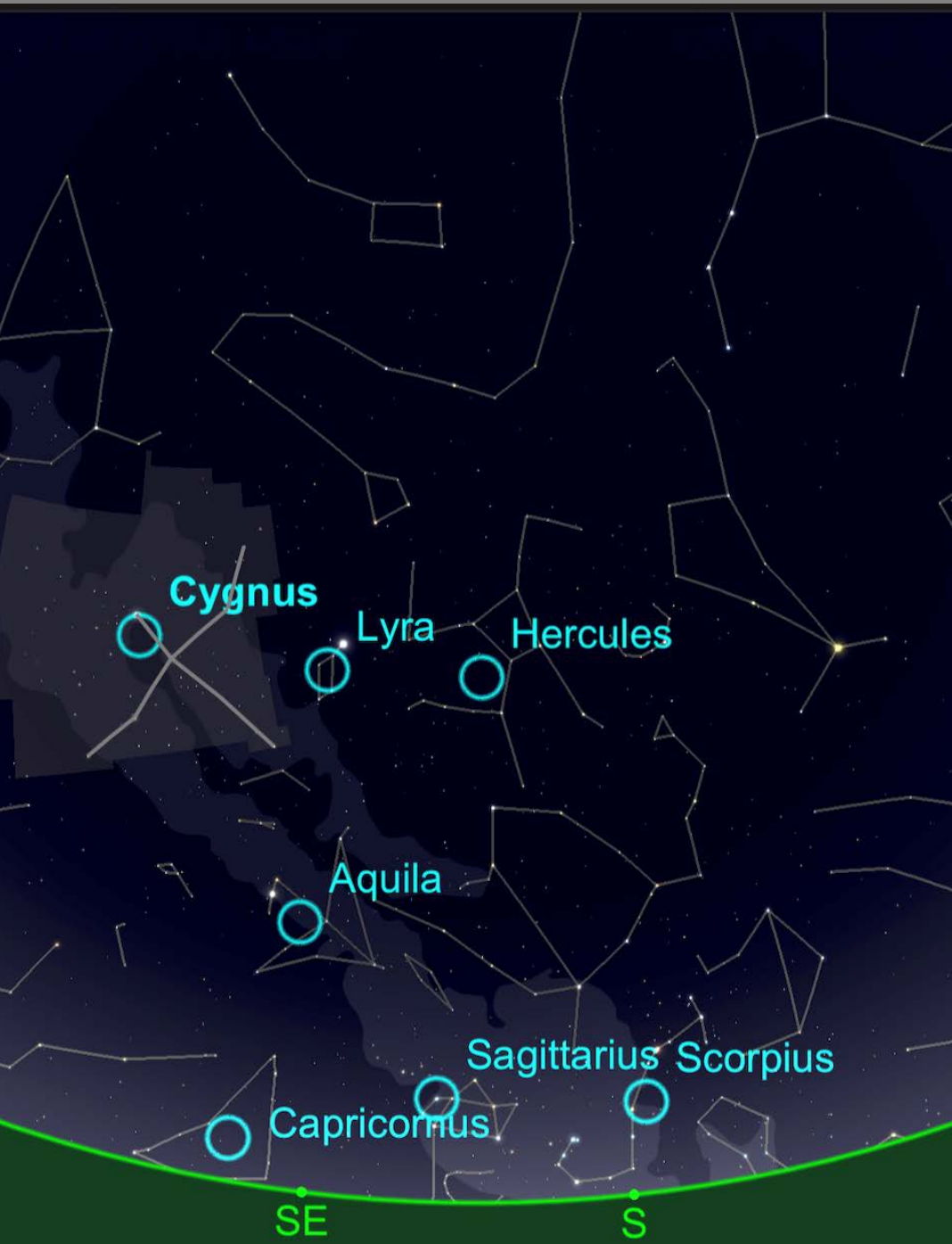
Mars -visible in Aries (mag. 1.1) in the pre-dawn sky
-close to the waning crescent Moon on June 2-3

Jupiter -appears in Taurus before sunrise at the start of June (mag. -2.0)

Saturn -rises in the E (mag. 1.2) after 2 a.m. at the start of June
-close to the waning gibbous Moon on May 27

Uranus -emerges (mag. 5.8) from the Sun's glare in the pre-dawn sky at the start of June

Neptune-visible in Pisces (mag. 7.9) in the pre-dawn sky



Explore the Universe:
Summer Constellations
twilight ends late:
~11:30 p.m.





Explore the Universe:

Summer Stars

Ranking:

#5 Vega (N)

#12 Altair (N)

#15 Antares (N)

#20 Deneb (N)

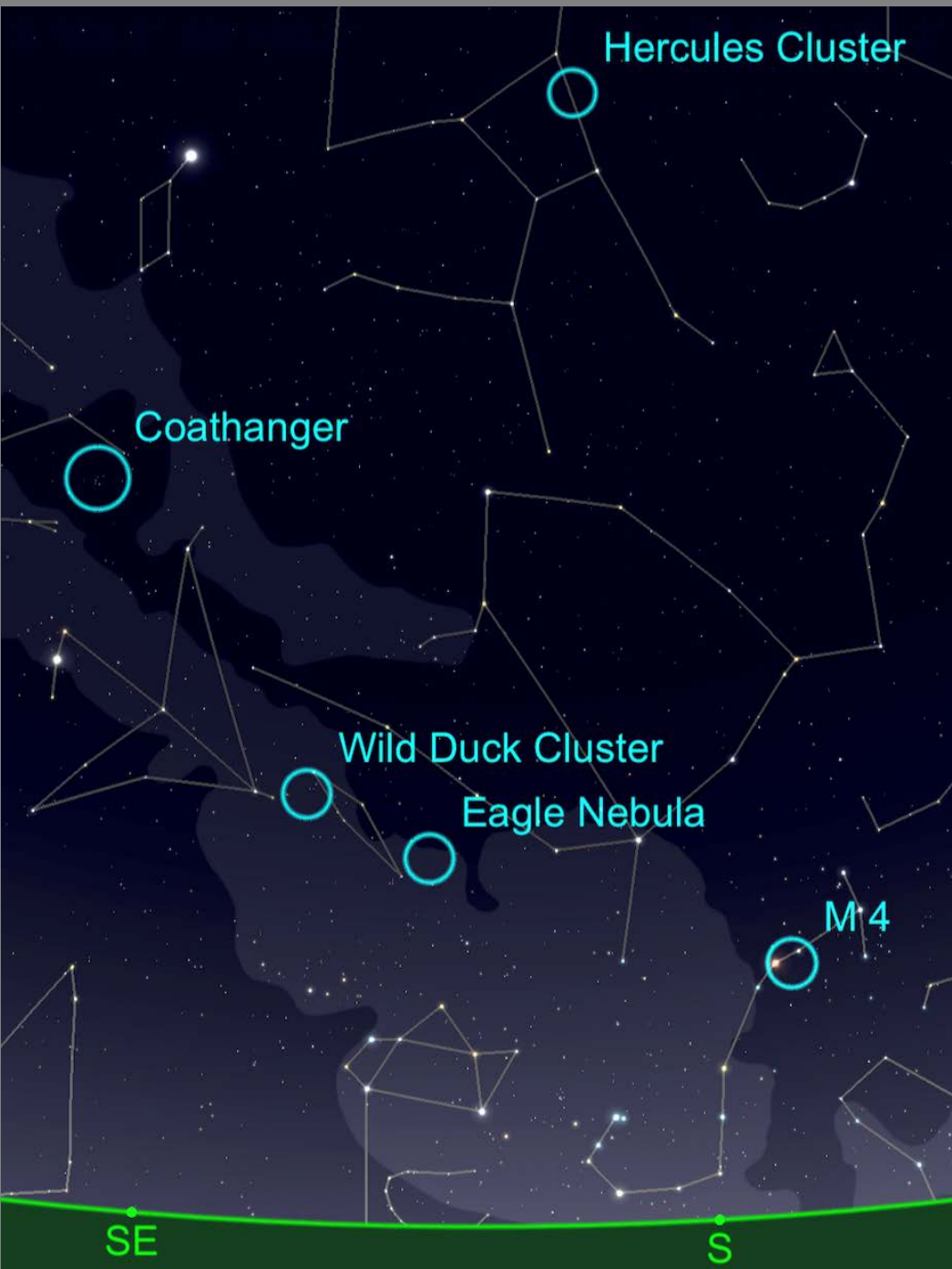
- Rasalgethi (A)

- Algedi

- Dabih

-Nunki (N)

- Albireo



Explore the Universe: Summer Deep-Sky

The Coathanger Asterism
(Brocchi's Cluster/Collinder 399)
1/3 the way from Altair to Vega

(view in binoculars in dark sky)

challenge



photo: David Hoskin



Explore the Universe: Summer Double Stars

Omicron 1 Cygni

Colorful triple (optical) star

α^1 Cyg 881 LY distant

β^0 Cyg 615 LY distant

HD192579 1359 LY distant

challenge



photo: David Hoskin

Evening Comet for Telescope Observation/Imaging



Look for Comet C/2023 A3 (mag. 11.6) in Virgo

Explore the Universe: Artificial Satellites

- the Explore the Universe observing program requires observation of at least 3 Earth-orbiting artificial satellites
- the International Space Station is an easy target for the unaided eye, appearing as a brilliant point of light moving quickly across the night sky
- dates and times for sighting opportunities can be obtained from [Spot The Station | NASA](#)



photos: David Hoskin



Questions?

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