



What's Up?

July 1-31, 2025

Made with the 2025 RASC Observer's Handbook, 2025
Night Sky Almanac, Sky Safari®, and Stellarium®

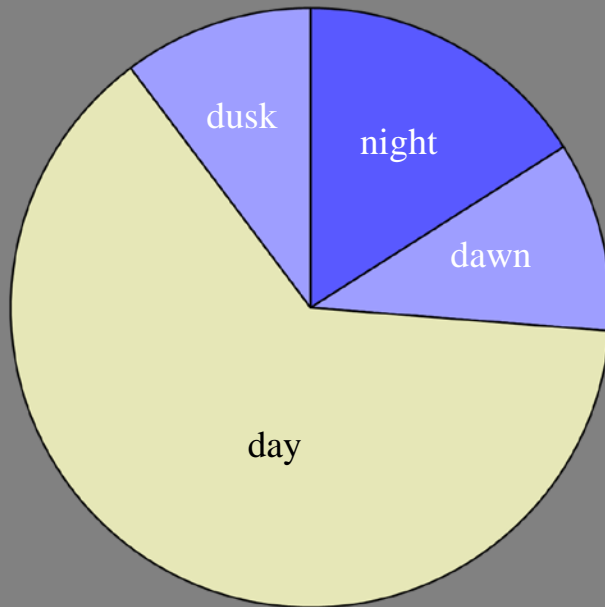
photo: David Hoskin

The Sun This Month

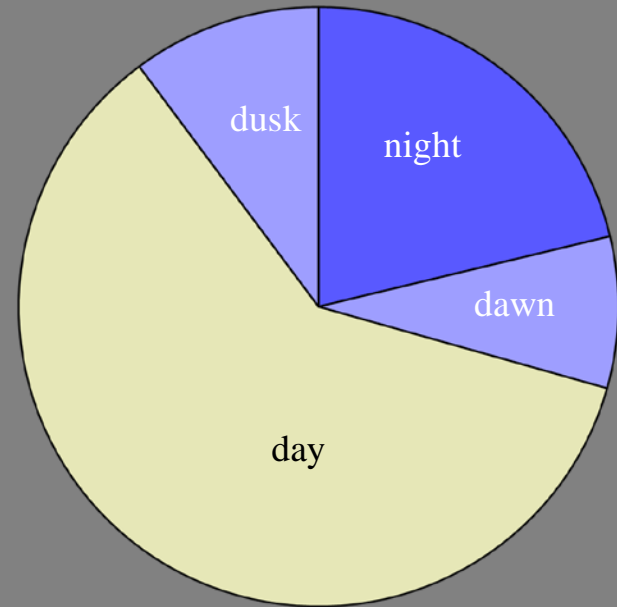
[Today's Solar Activity](#)

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
July 1	9:03 p.m.	11:30 p.m.	3.9 h	3:05 a.m.	5:33 a.m.	1:18 p.m.	15.5 h	68.4°
July 31	8:40 p.m.	10:44 p.m.	5.2 h	3:55 a.m.	6:00 a.m.	1:20 p.m.	14.8 h	63.4°

Halifax July 1



Halifax July 31



[YouTube: RASC Halifax](#)

Noctilucent Clouds

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

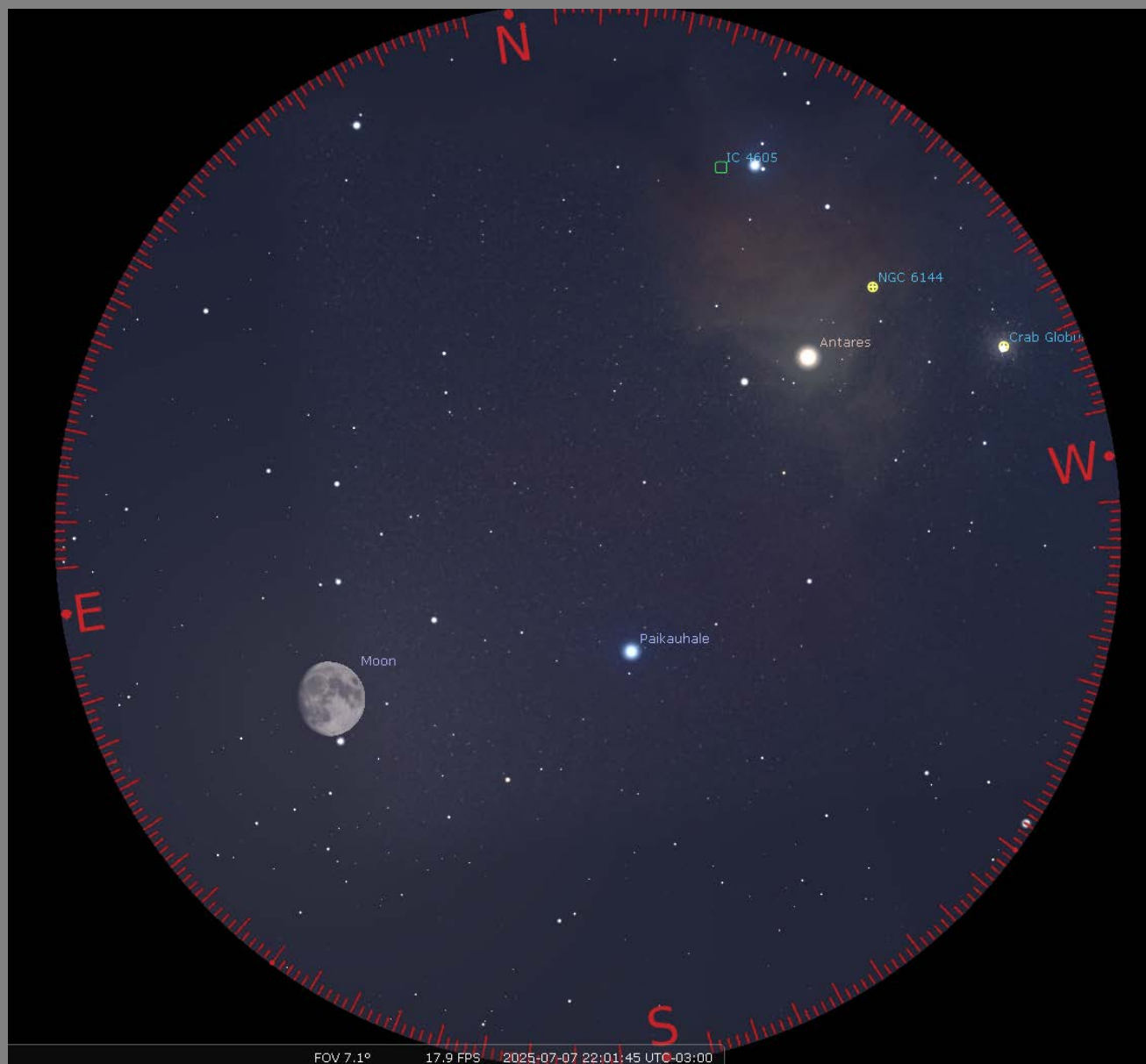


photo: David Hoskin

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

The Moon This Month

Date	Phase	English	Mi'kmaq
July 2	<i>First Quarter</i>	Birds Shedding Feathers	<u>Peskewiku's</u>
July 4	Moon at apogee (404,600 km)		
July 7	Moon near Antares		
July 10	<i>Full Moon</i>		
July 16	Moon near Saturn and Neptune		
July 18	<i>Last Quarter</i>		
July 20	Moon at perigee (368,000 km)		
July 21	Moon near Venus		
July 22	Moon near Venus and Jupiter		
July 23	Moon near Jupiter		
July 24	<i>New Moon</i>	Berry Ripening	<u>Kisikewiku's</u>
July 28	Moon near Mars		
July 30	Moon near Spica		



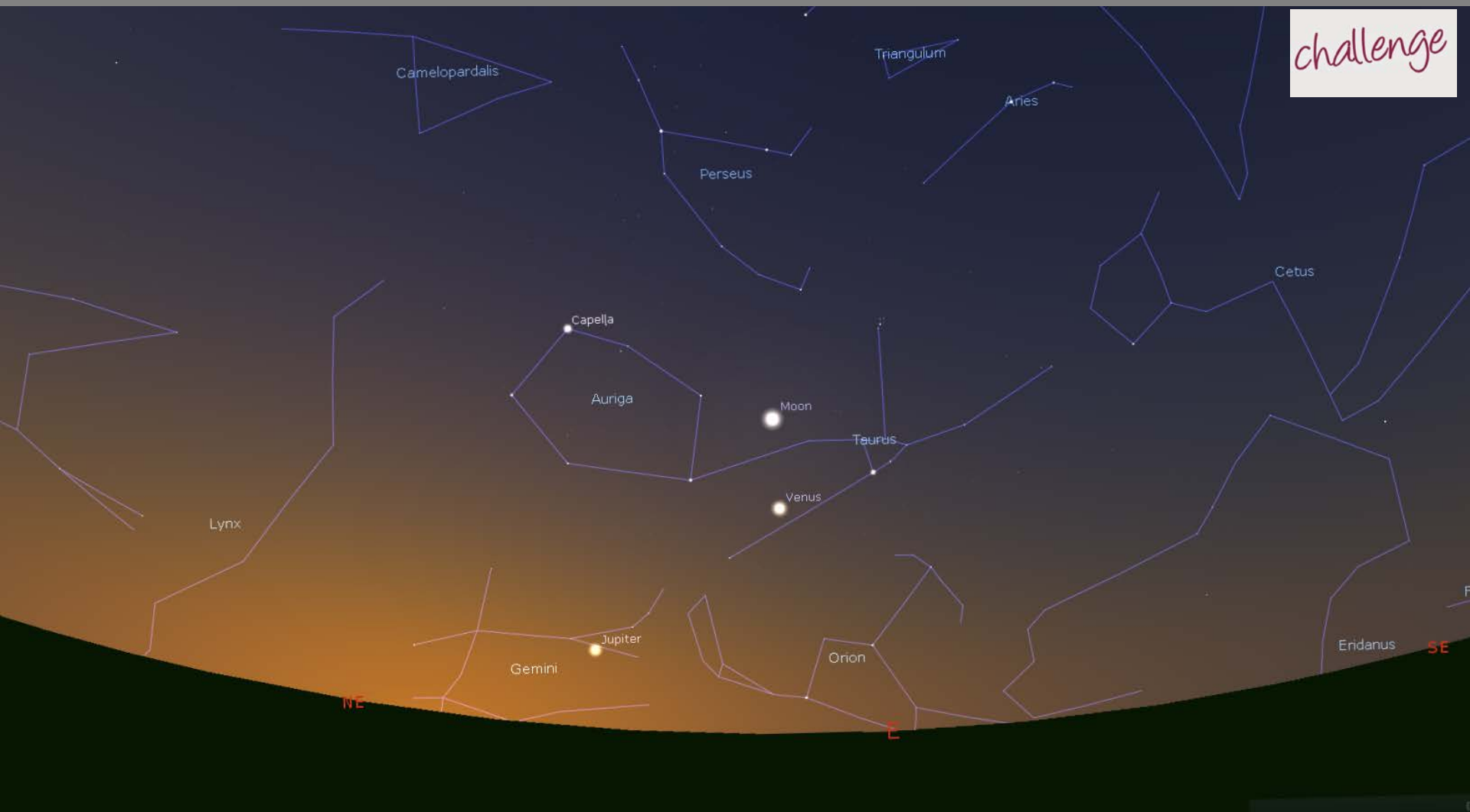
July 7 @ 10:00 p.m.

F.O.V with 7 x 50 binoculars



July 16 @ 3:00 a.m.

F.O.V with 7 x 50 binoculars

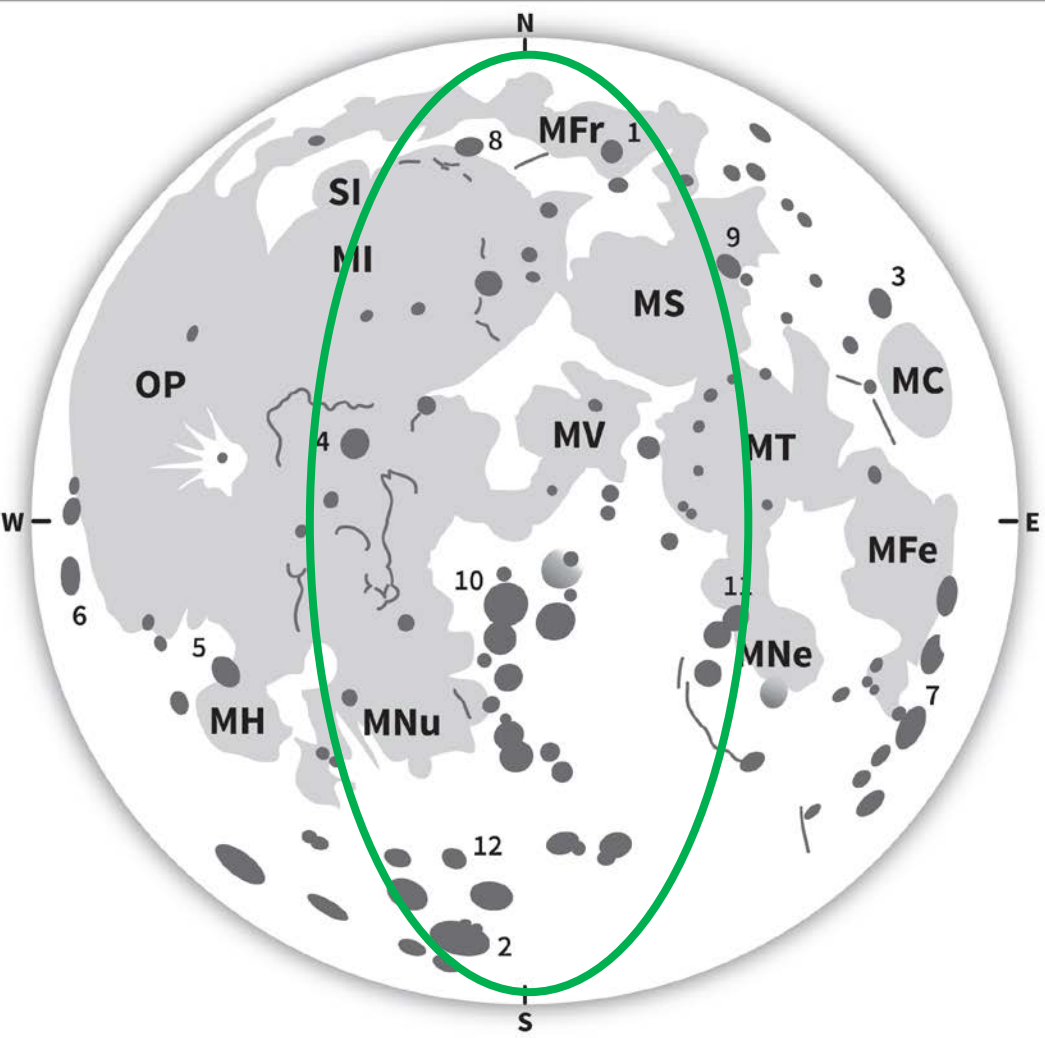


July 21 @ 5:00 a.m.
Wide-field photo opportunity



July 28 @ 10:00 p.m.

F.O.V with 7 x 50 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

July 1-4, 22-26

The Moon in

Explore the Universe

observe 3 of each in ⁹binos

CRATERS

1. Aristoteles

2. Clavius

3. Cleomedes

4. Copernicus

5. Gassendi

6. Grimaldi

7. Petavius

8. Plato

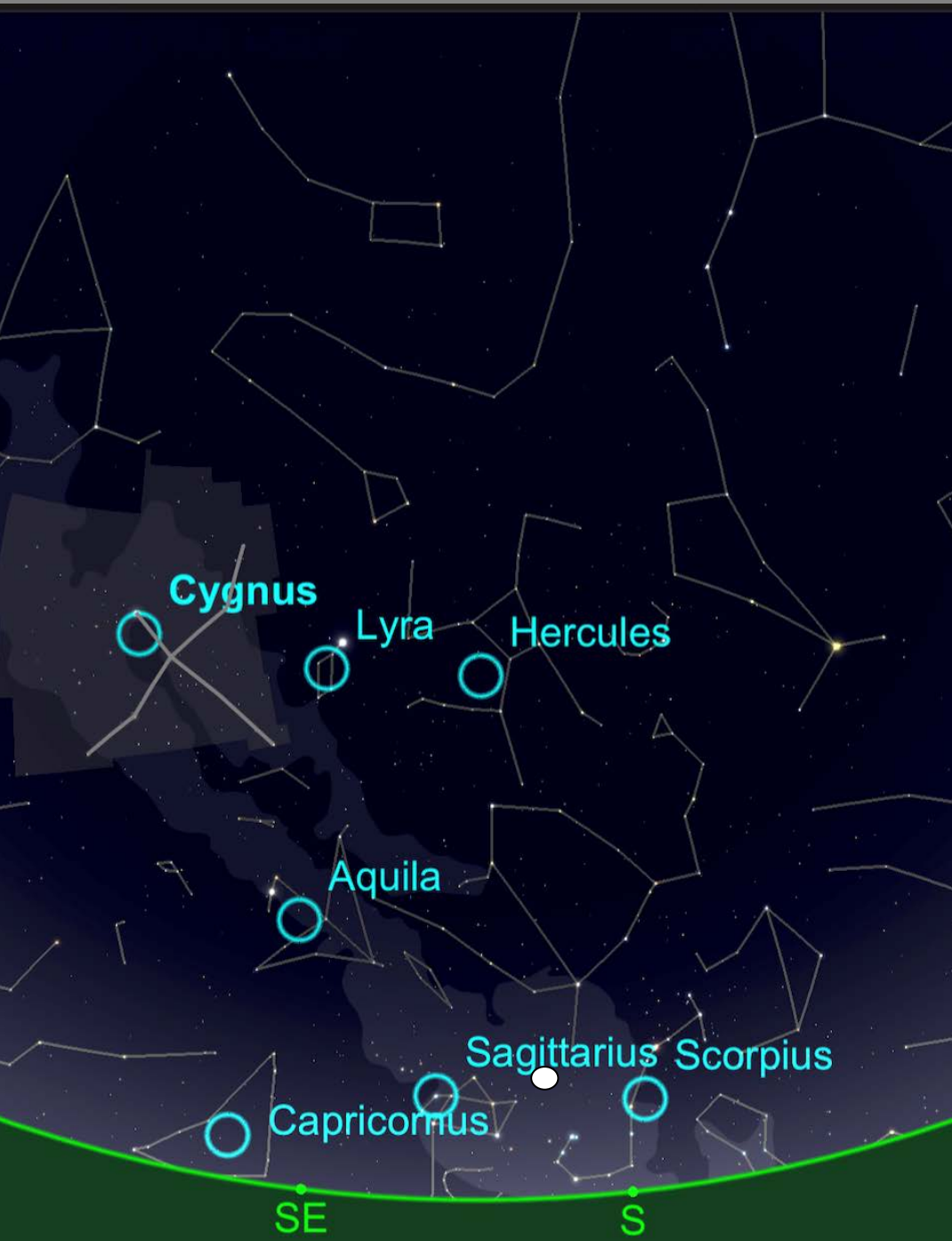
9. Posidonius

10. Ptolomaeus

11. Theophilus

12. Tycho

challenge



Explore the Universe: Summer Constellations

Twilight ends late:
~11:10 p.m.





Explore the Universe:

Summer Stars

Ranking:

#5 Vega (N)

#12 Altair (N)

#15 Antares (N)

#20 Deneb (N)

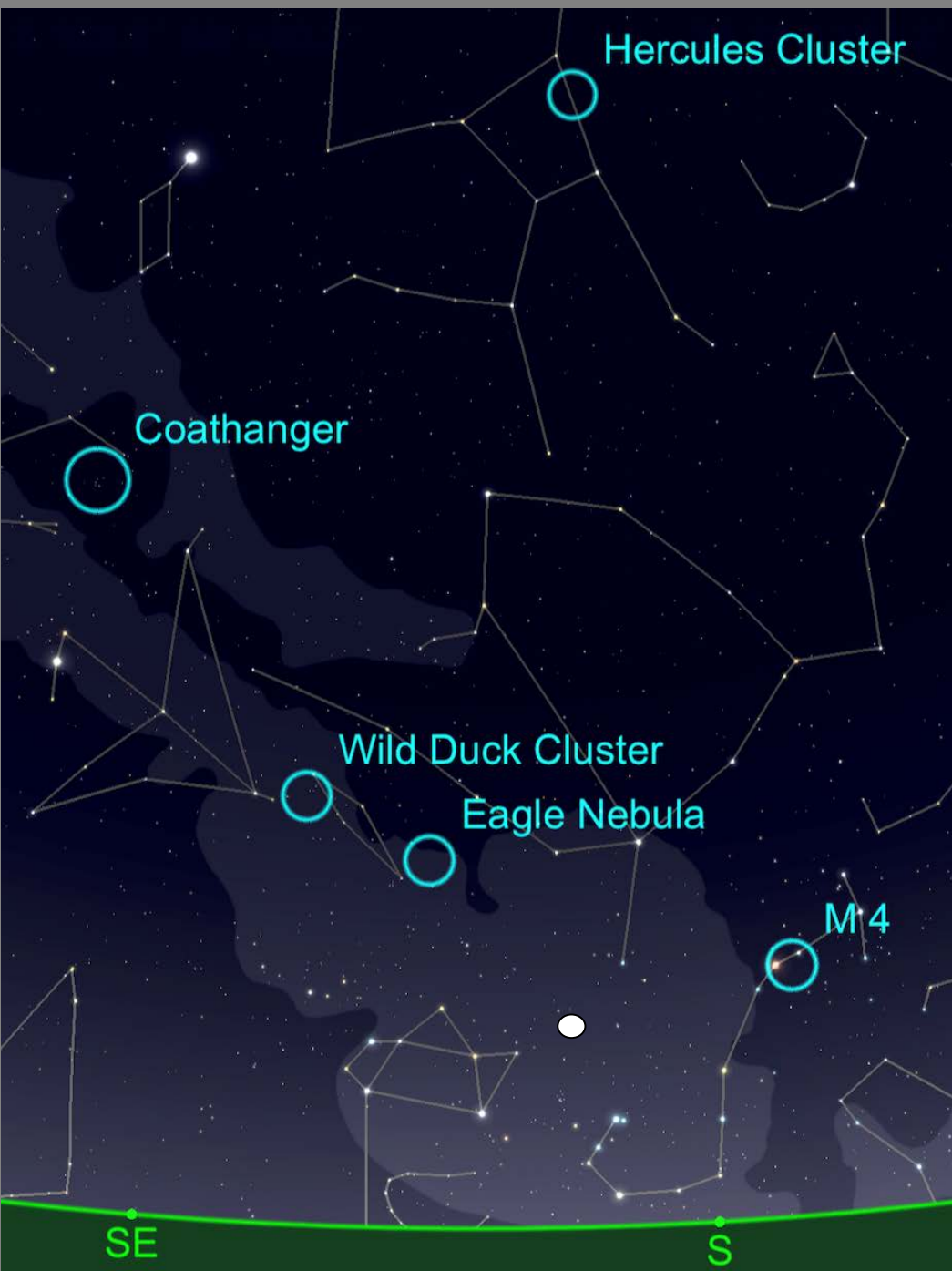
- Rasalgethi (A)

- Algedi

- Dabih

-Nunki (N)

- Albireo



Explore the Universe: Summer Deep-Sky

The Hercules Cluster (Messier 13/NGC 6205)

145 LY in diameter and contains
several hundred thousand stars
(view in binoculars in dark sky)





Explore the Universe: Summer Double Stars

Albireo (β Cygni)

Colorful double star

Split with binoculars

challenge



photo: David Hoskin

Questions?

observing@halifax.rasc.ca

NGC 6819

photo: David Hoskin

