

What's Up?

August 1-31, 2024

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

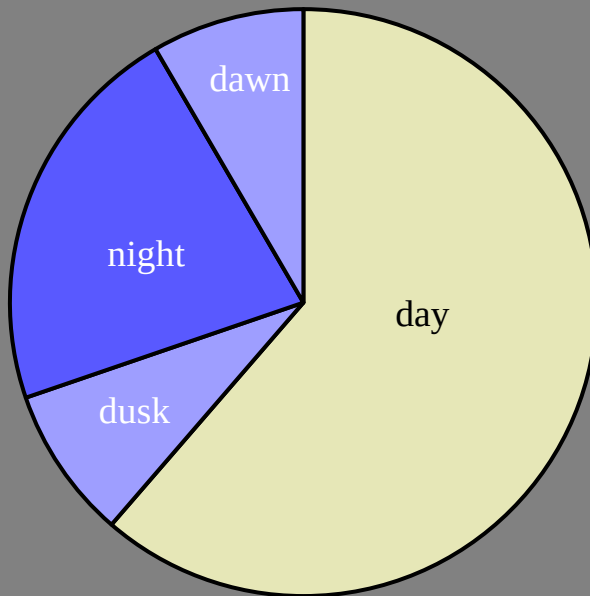
photo: David Hoskin

The Sun This Month

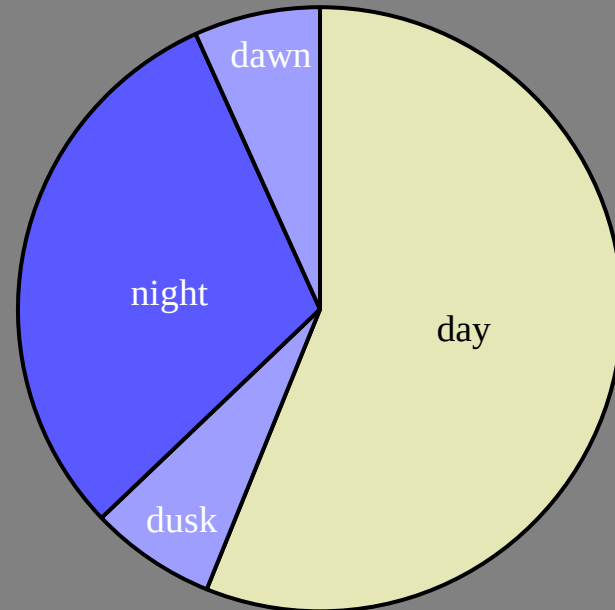
Today's Solar Activity

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
August 1	8:39 p.m.	10:42 p.m.	5.2 h	3:57 a.m.	6:01 a.m.	1:20 p.m.	14.6 h	63.1°
August 31	7:51 p.m.	9:36 p.m.	7.2 h	4:51 a.m.	6:36 a.m.	1:14 p.m.	13.3 h	53.7°

Halifax August 1



Halifax August 31

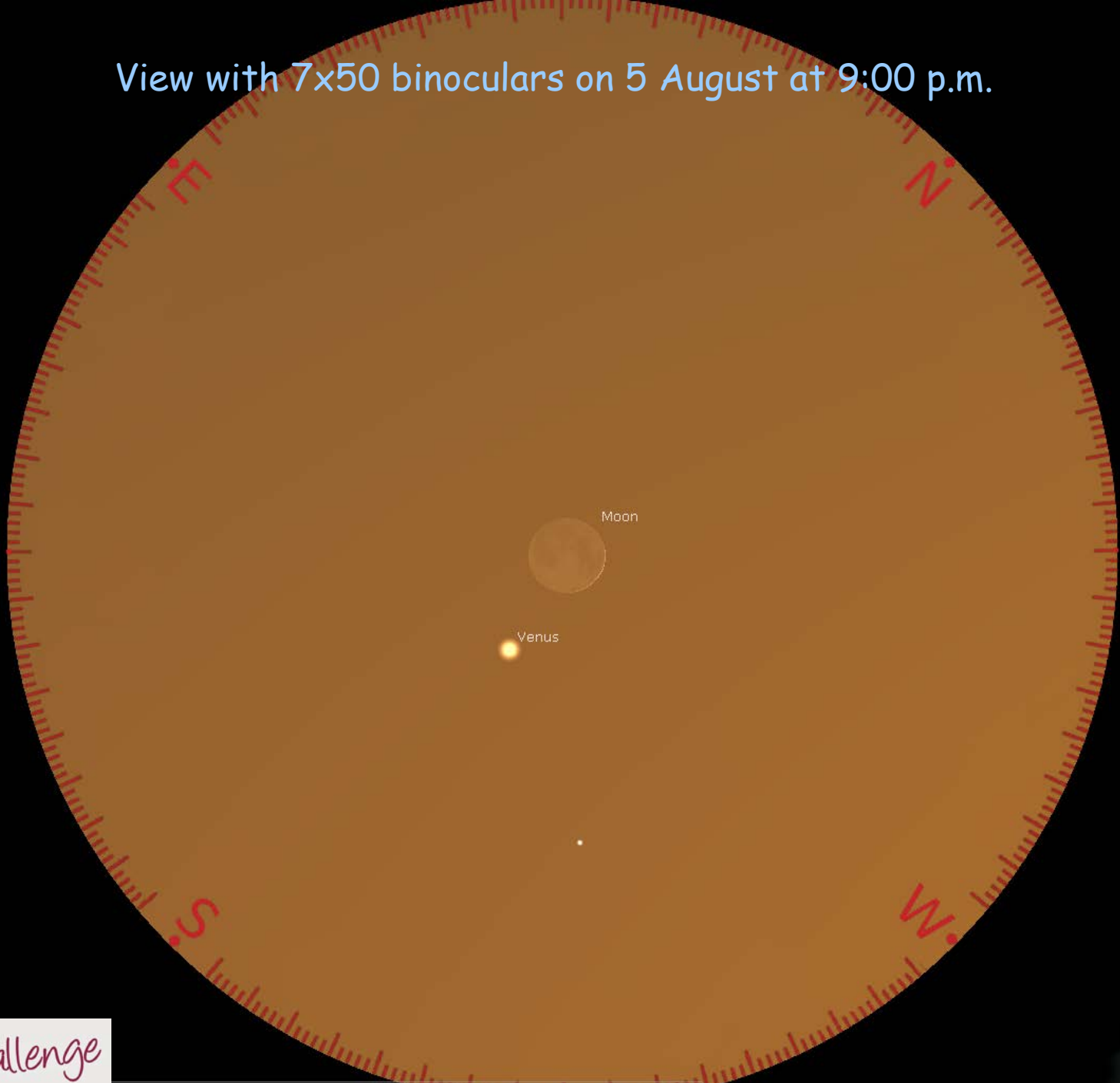


[YouTube: RASC Halifax](#)

The Moon This Month

Date	Phase	English	Mi'kmaq
August 4	<i>New Moon</i>	Berry Ripening	<u>Kisikewiku's</u>
August 5	Venus close to the Moon		
August 9	Moon at apogee (405,300 km)		
August 11-13	Perseid meteor shower		
August 12	<i>First Quarter</i>		
August 13	Moon near Antares and M4		
August 19	<i>Full Moon</i>		
August 20-21	Moon near Saturn		
August 21	Moon at perigee (360,200 km)		
August 26	<i>Last Quarter</i>		

View with 7x50 binoculars on 5 August at 9:00 p.m.



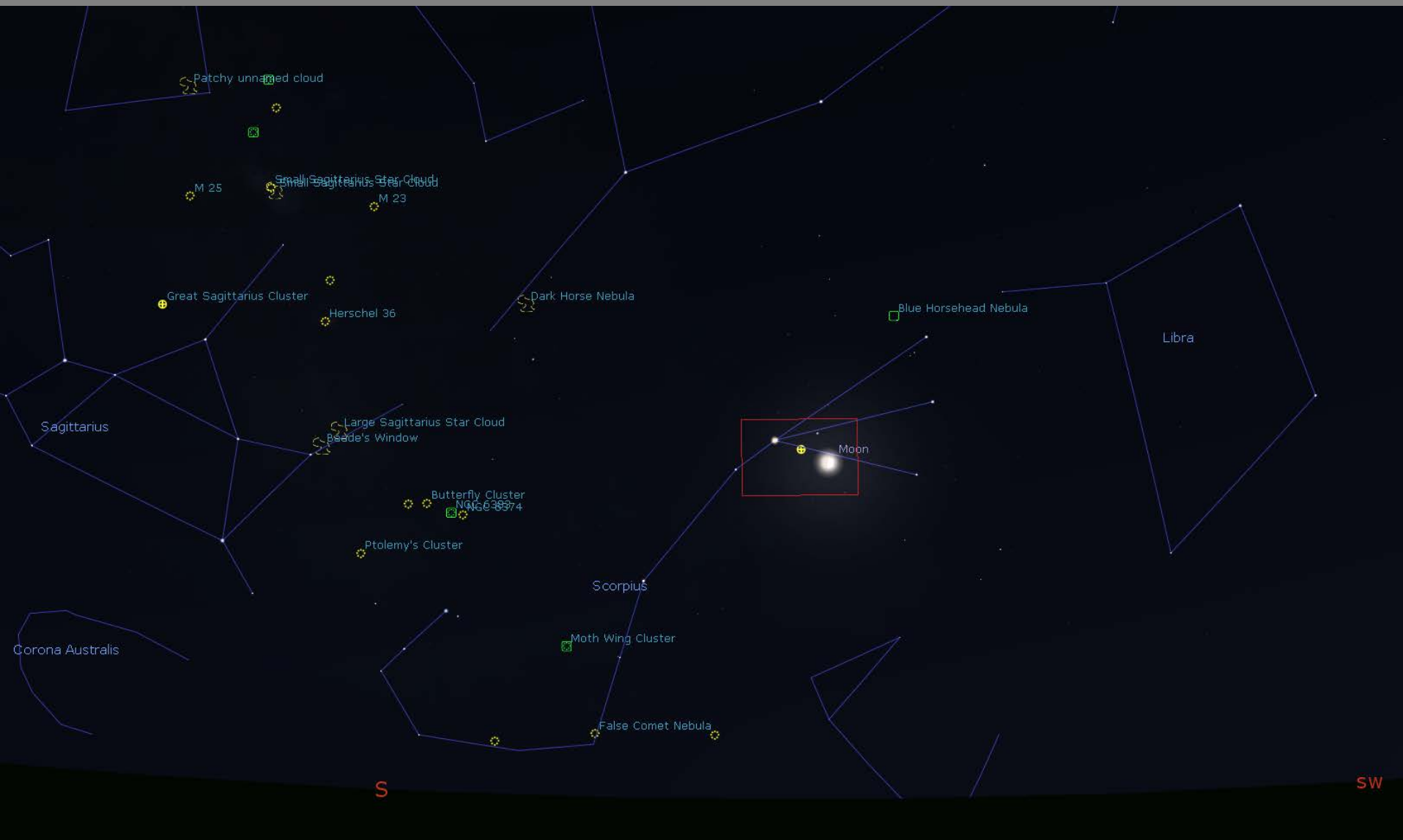
challenge

FOV 7.1°

17.9 FPS

2024-08-05 21:03:12 UTC-03:00

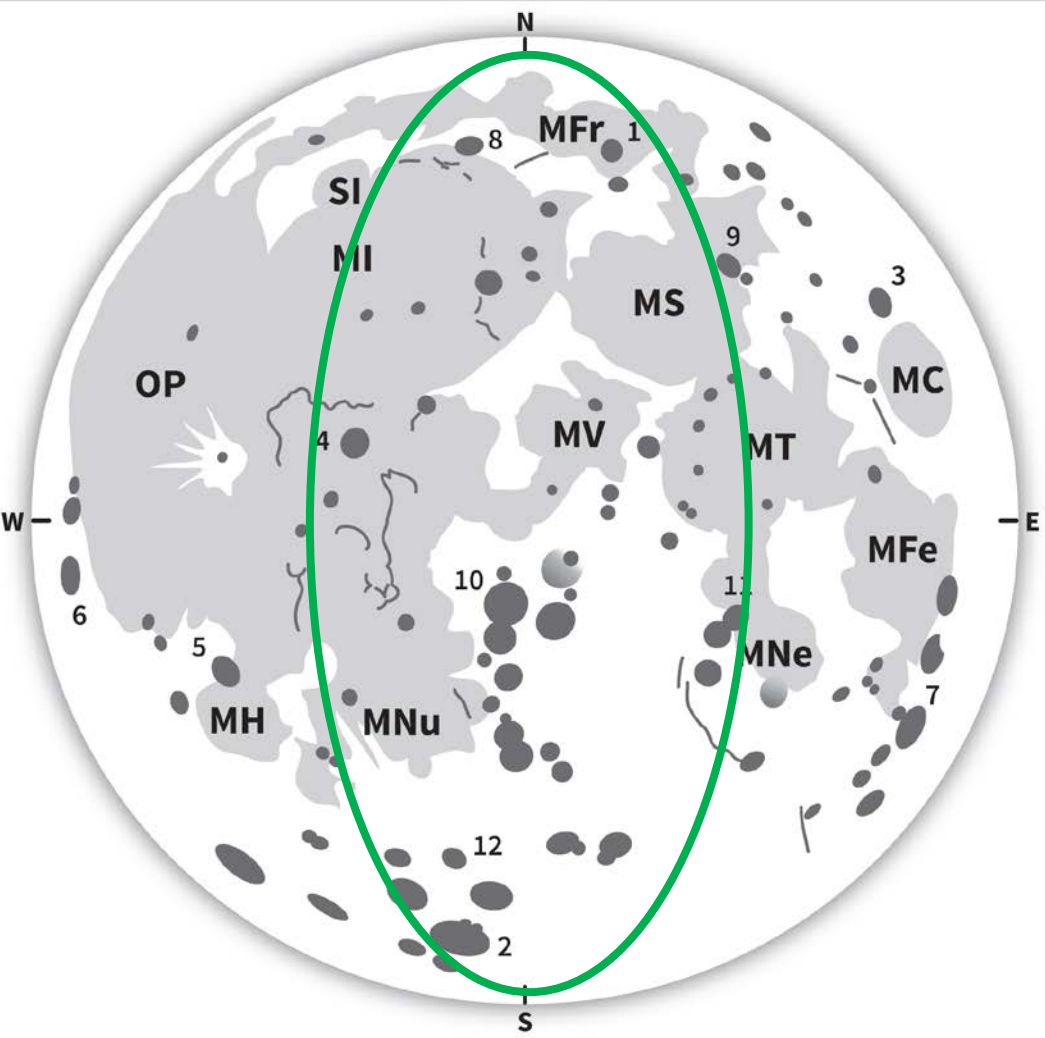
Nice photo-opportunity on August 13 at 9:30 p.m.



Red rectangle shows APS-C sensor with 250mm lens

View with 15x70 binoculars on 20 August at 11:00 p.m.





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

August 10-14

The Moon in

Explore the Universe

observe 3 of each in binos⁷

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 August

Mercury-still visible low in the W (mag. -0.6) after sunset at the start of August, then re-appears in the predawn sky at the end of the month

Venus -very low in the W (mag. -3.9) after sunset
-close to the waxing crescent Moon on August 5

challenge

Mars -visible in Taurus (mag. 1.0) in the pre-dawn sky
-close conjunction with Jupiter on August 14 and 15

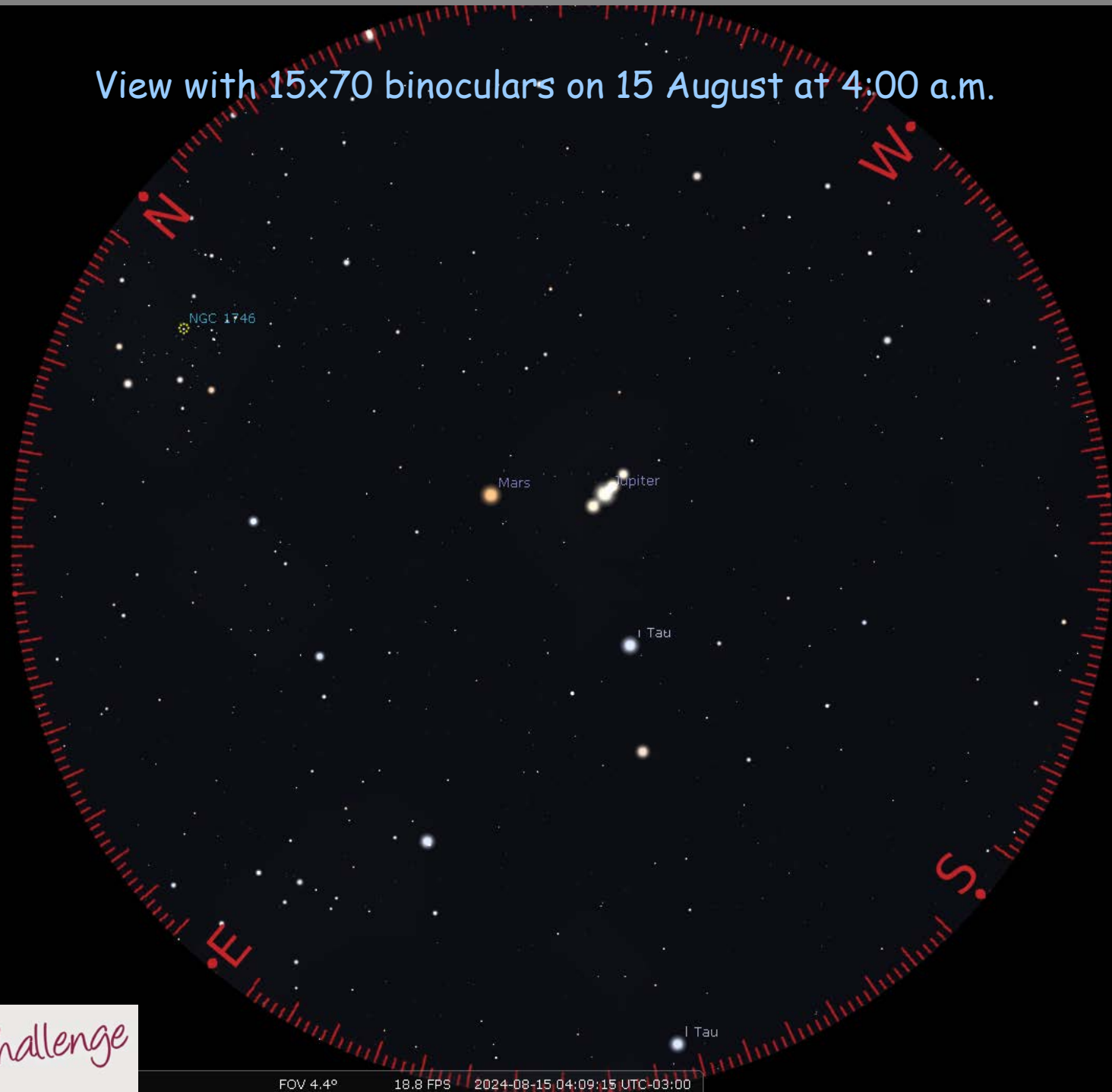
Jupiter -prominent in Taurus (mag. -2.0) in the pre-dawn sky
-close conjunction with Mars on August 14 and 15

Saturn -rises in the E (mag. 0.9) before midnight
-close to the waning gibbous Moon on August 20 and 21

Uranus -visible in Taurus (mag. 5.8) after midnight

Neptune-visible for most of the night in Pisces (mag. 7.9)

View with 15x70 binoculars on 15 August at 4:00 a.m.



challenge

FOV 4.4°

18.8 FPS

2024-08-15 04:09:15 UTC-03:00

Perseid Meteor Shower

Peaks August 12

Up to 120 meteors per hour

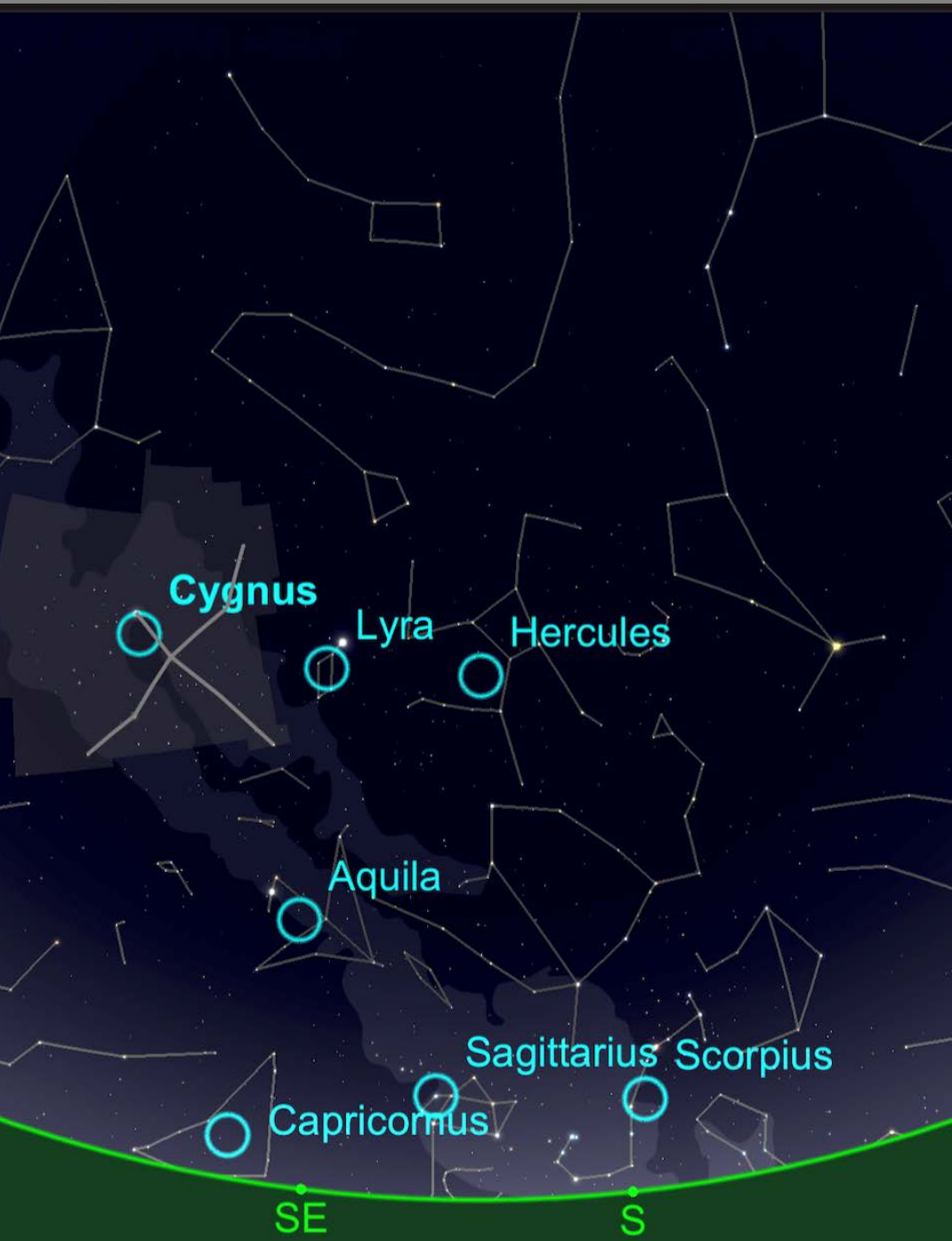
Meteors will be easy to see

In the early morning after
setting of the Moon

challenge



photo: David Hoskin



Explore the Universe: Summer Constellations





Explore the Universe:

Summer Stars

Ranking:

#5 Vega (N)

#12 Altair (N)

#15 Antares (N)

#20 Deneb (N)

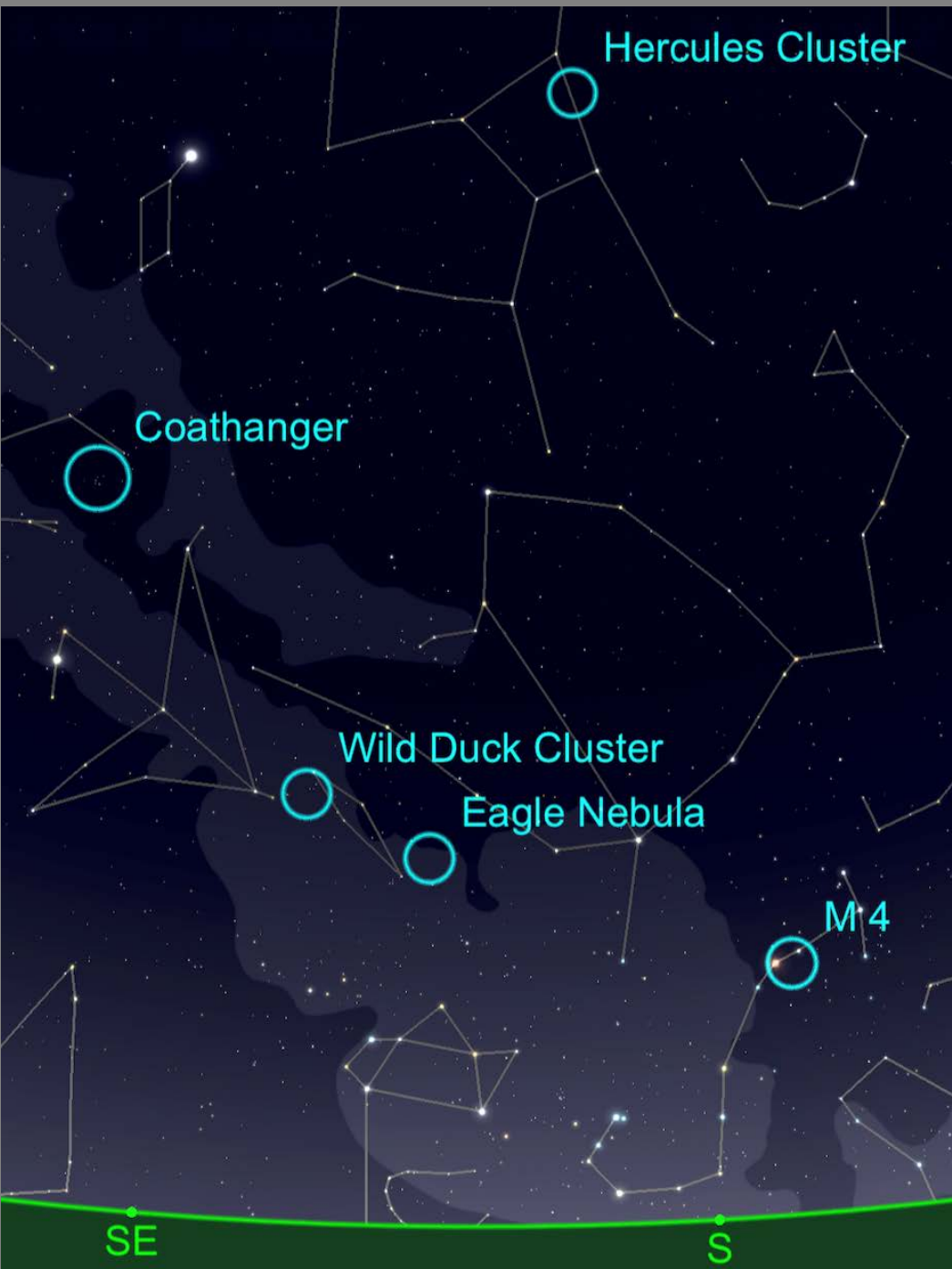
- Rasalgethi (A)

- Algedi

- Dabih

-Nunki (N)

- Albireo



Explore the Universe:

Summer Deep-Sky

The Wild Duck Cluster

(Messier 11)

Densely populated open
star cluster 6,200 LY away
in the constellation of
Scutum

challenge



photo: David Hoskin

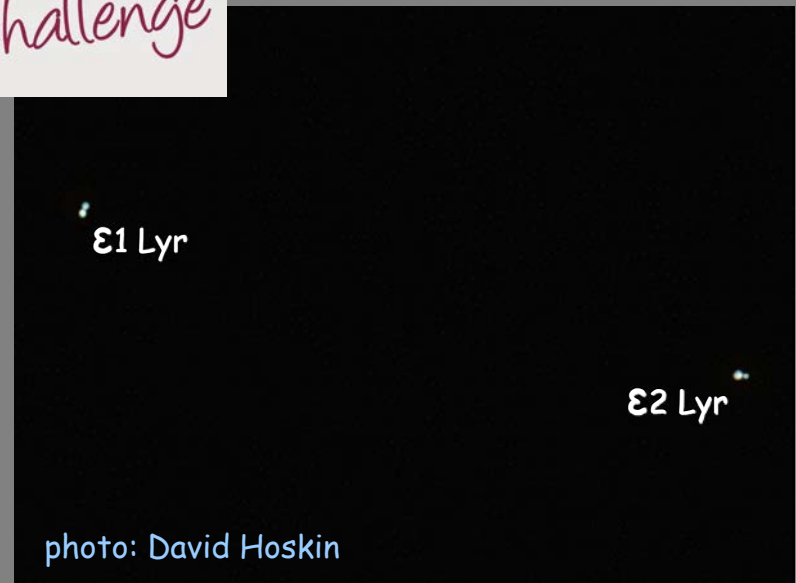


Explore the Universe: Summer Double Stars

ϵ^1 Lyr and ϵ^2 Lyr
"Double Double"

Each is also a double star
Split with a telescope

challenge



Questions?

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photo: David Hoskin