What's Up?

June 1–30, 2025

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

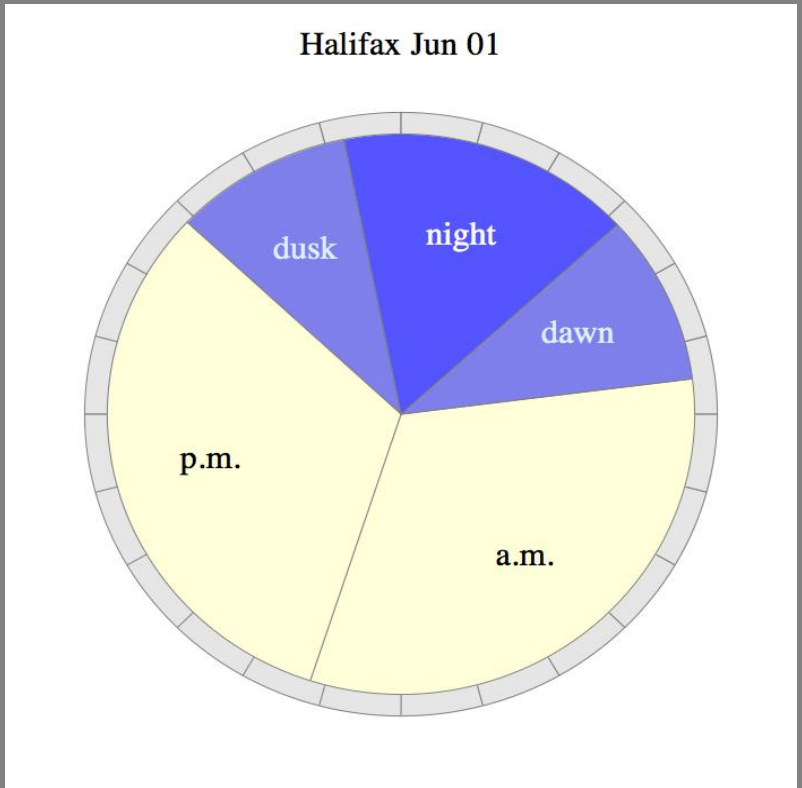
photo: David Hoskin

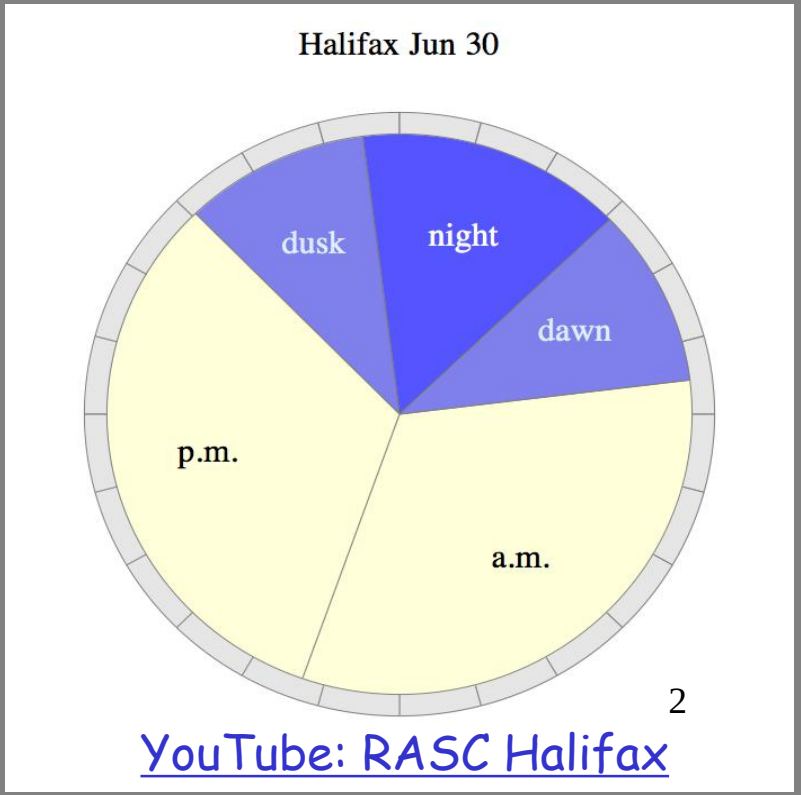
The Sun This Month

Today's Solar Activity

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	"Noon"	Sunlight	Max Altitude
June 1	8:52 p.m.	11:15 p.m.	3.9 h	3:10 a.m.	5:32 a.m.	1:12 p.m.	15.4 h	67.5º
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	68.5º

Summer Solstice: June 20 at 11:42 a.m. (AST)





YouTube: RASC Halifax

Noctilucent Clouds

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

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

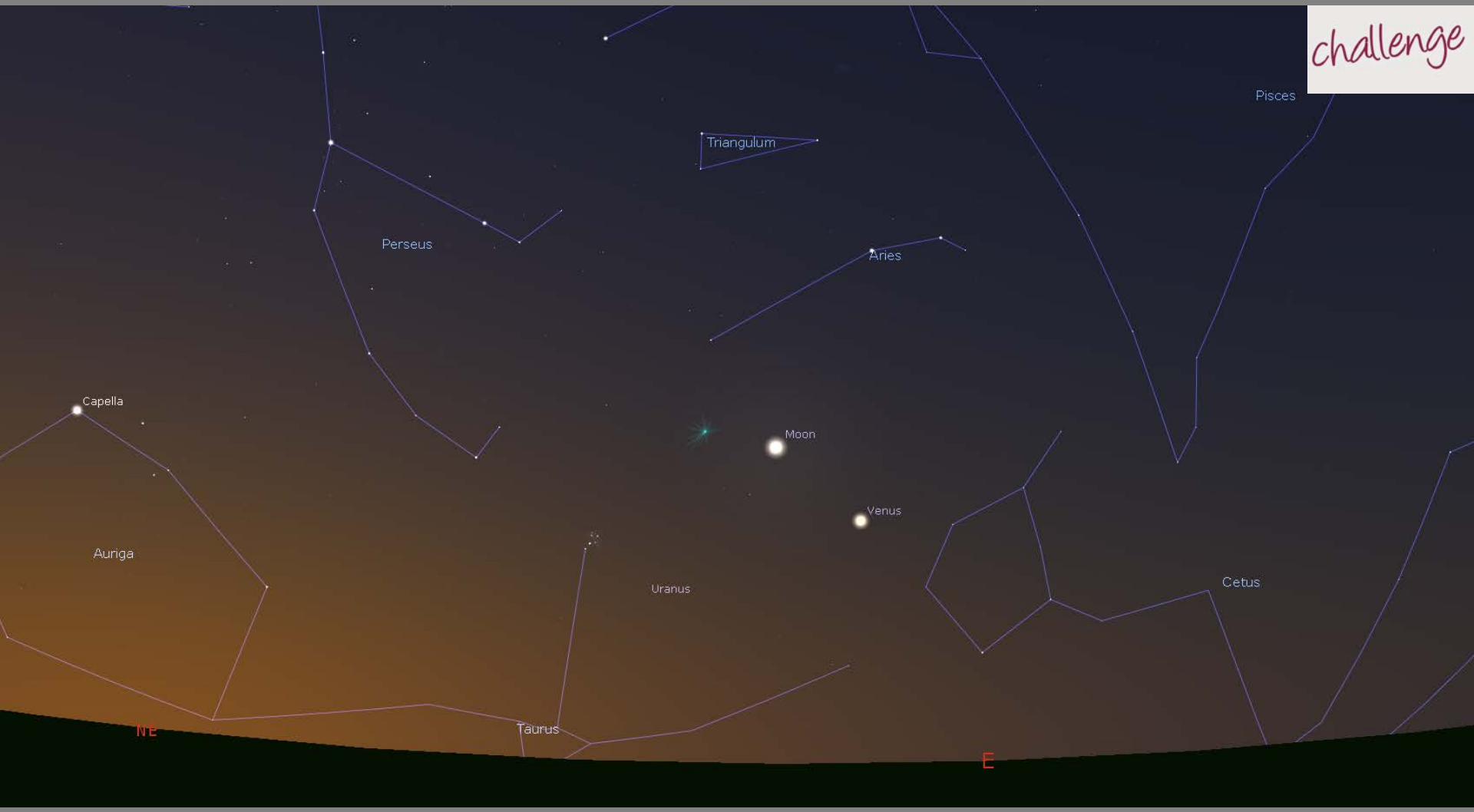
The Moon This Month

Date	Phase	English	Mi'kmaq
June 1	Moon near Mars		
June 3	*First Quarter Moon*	Trees Fully Leafed	Nipniku's
June 7	Moon at apogee (405,600 km)		
June 9-10	Moon near M4 and Antares		
June 11	*Full Moon*		
June 18	*Last Quarter Moon*		
June 19	Moon near Saturn		
June 22	Moon near Venus		
June 23	Moon at perigee (363,200 km)		
June 25	*New Moon*	Birds Shedding Feathers	Peskewiku's
June 26	Moon near Mercury		
June 27	Moon near M44		
June 29	Moon-Mars conjunction		

June 9 @ 11:30 p.m.
7x50 binoculars
F.O.V 7.1°

June 29 @ 10:30 p.m.
15x70 binoculars
F.O.V 4.4°

challenge

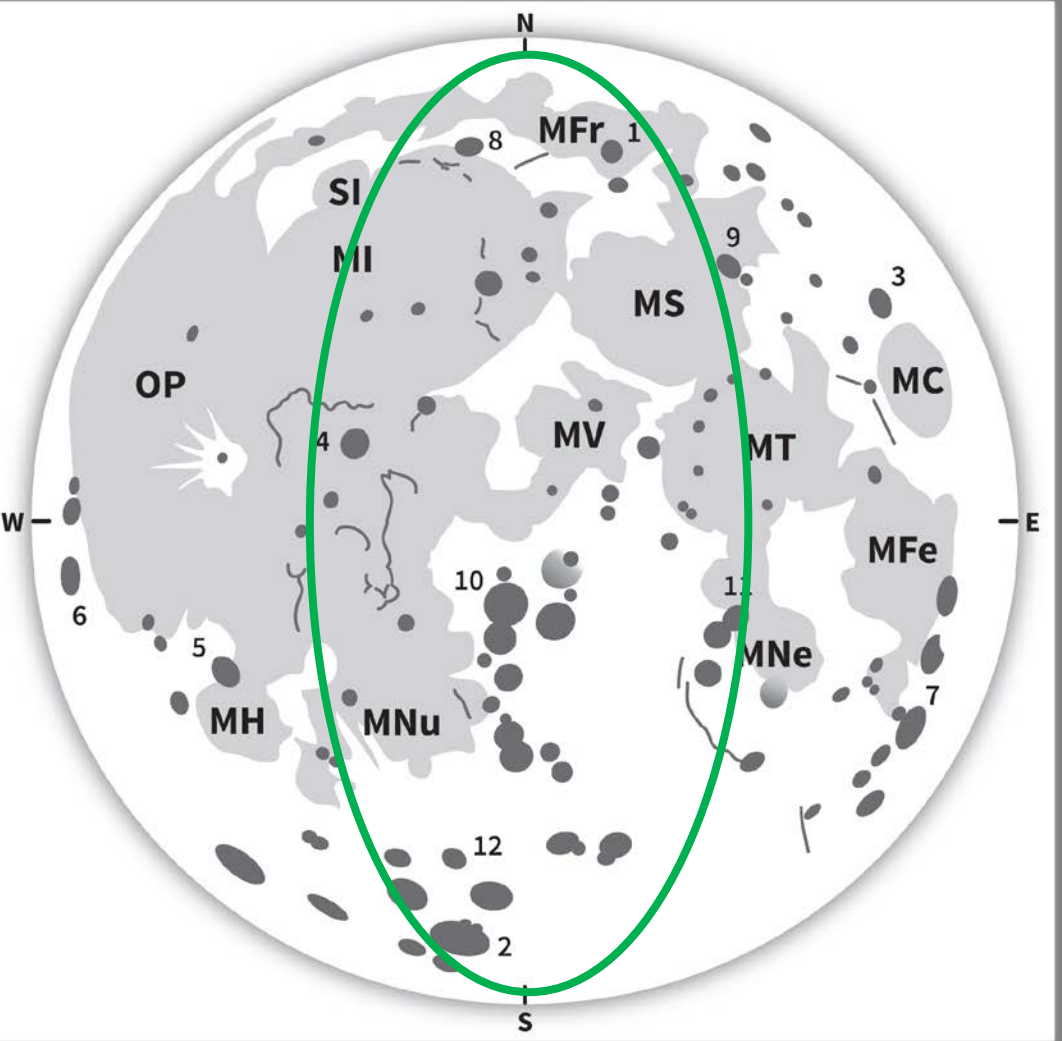


June 22 @ 4:30 a.m.

Thin Crescent Moon and Venus Photo Opportunity

June 26 @ 9:45 p.m.

Thin Crescent Moon and Mercury Photo Opportunity



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

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 1-7

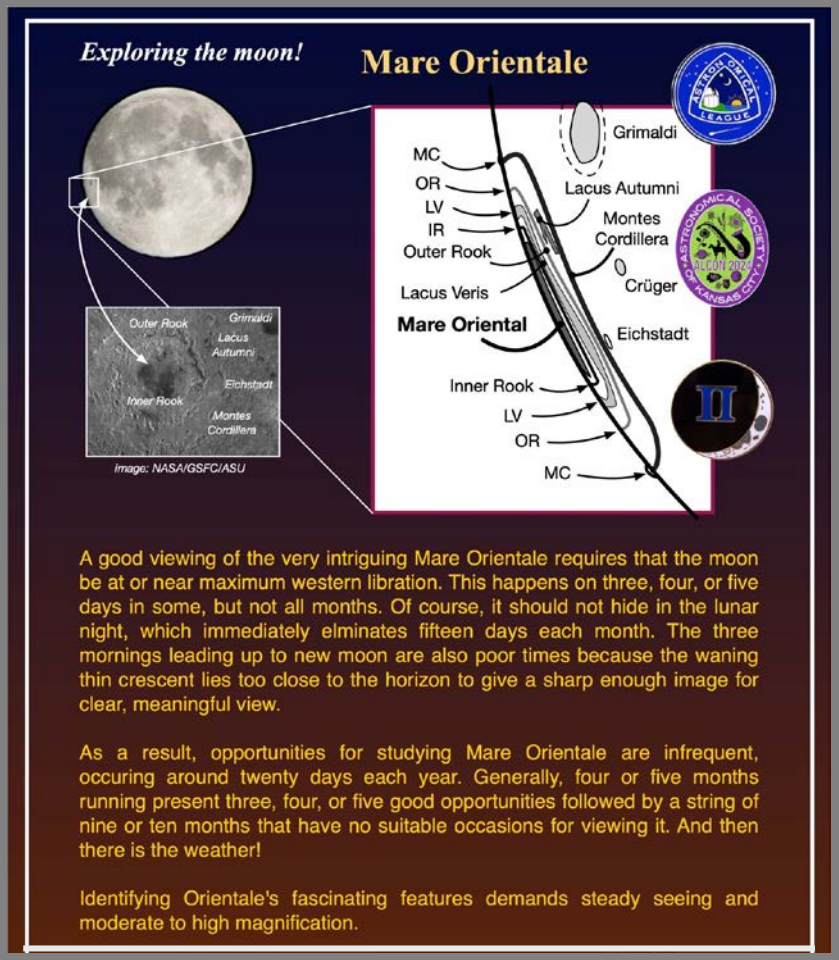
The Moon in

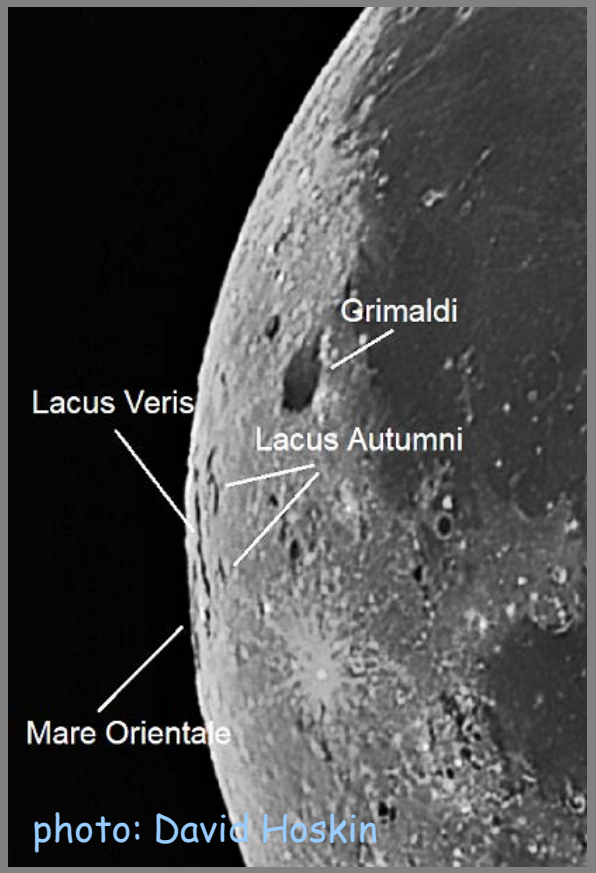
Explore the Universe

observe 3 of each in binos

Mare Orientale

challenge





-look at 3:30 a.m. ADT on June 16 for favorable western libration exposing Mare Orientale

The Planets in June

Mercury-visible low in the W (mag. -0.8) after sunset by 2nd week of June

Venus -prominent and low in the E (mag. -4.3) before sunrise
-near the waning crescent Moon on June 22

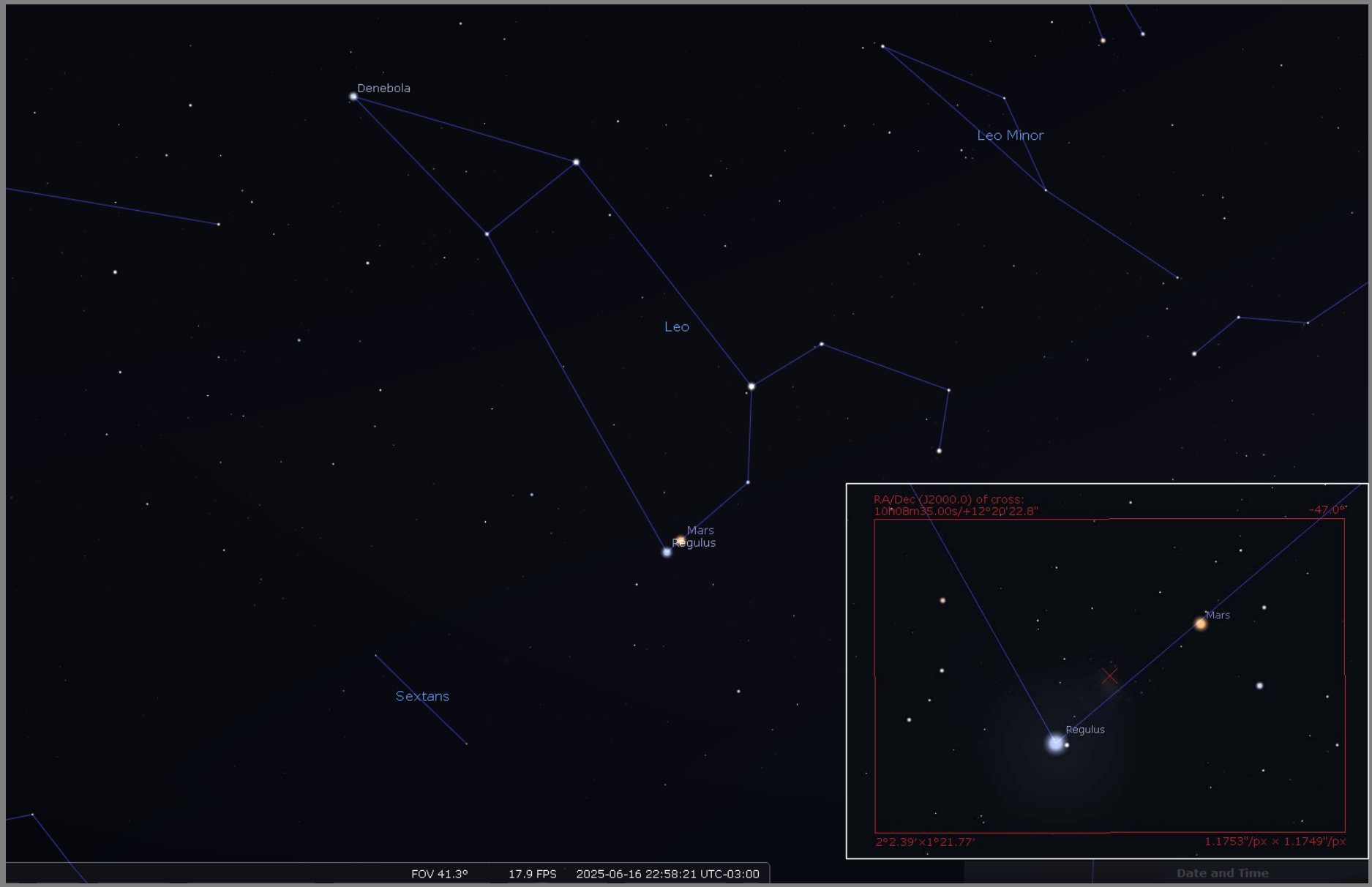
Mars -visible in Leo (mag. 1.3) after sunset
-near waxing crescent Moon on June 1
-near Regulus on June 16
-conjunction with waxing crescent Moon on June 29

Jupiter -very low in the W (mag. -1.9) after sunset until 2nd week of June
-disappears into twilight glare for the rest of June

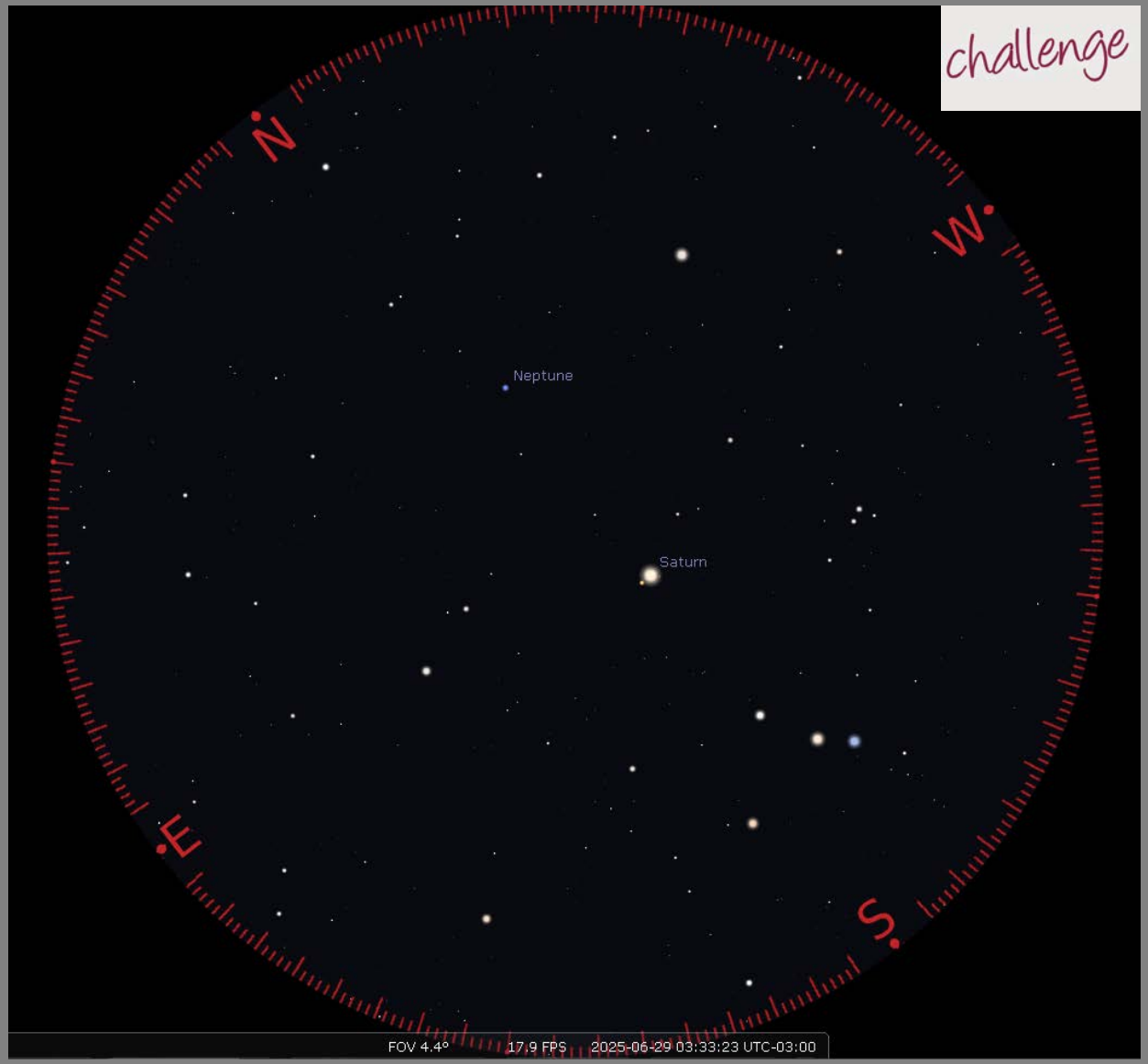
Saturn -rises before dawn (mag. 1.1)
-near waning crescent Moon on June 19
-conjunction with Neptune on June 29

Uranus -emerges from Sun's glare (mag. 5.8) low in the E by early June

Neptune-visible in the pre-dawn sky (mag. 7.9) in Pisces
-conjunction with Saturn on June 29

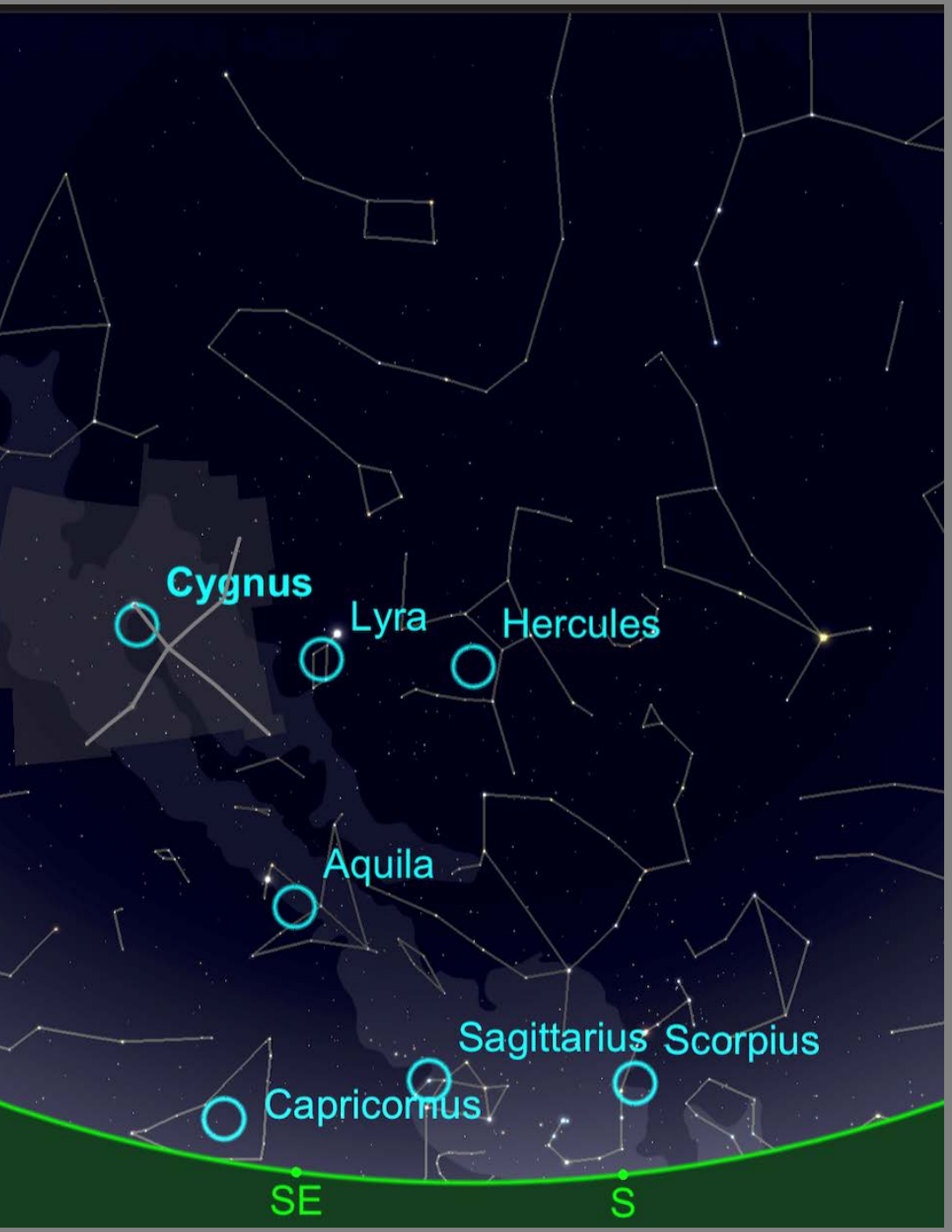


June 16 @ 11:00 p.m. Photo Opportunity – *APS-C sensor and 150mm f/5 reflector*



June 29 @ 3:30 a.m.
15x70 binoculars
F.O.V 4.4°

Halifax, NS 25 June 2025 @ 11:30 pm



Explore the Universe:

Summer Constellations

Twilight ends late:

~11:30 p.m.

Halifax, NS 25 June 2025 @ 11:30 pm

Explore the Universe:

Summer Stars

Ranking:

#5 Vega (N)

#12 Altair (N)

#15 Antares (N)

#20 Deneb (N)

- Rasalgethi (A)

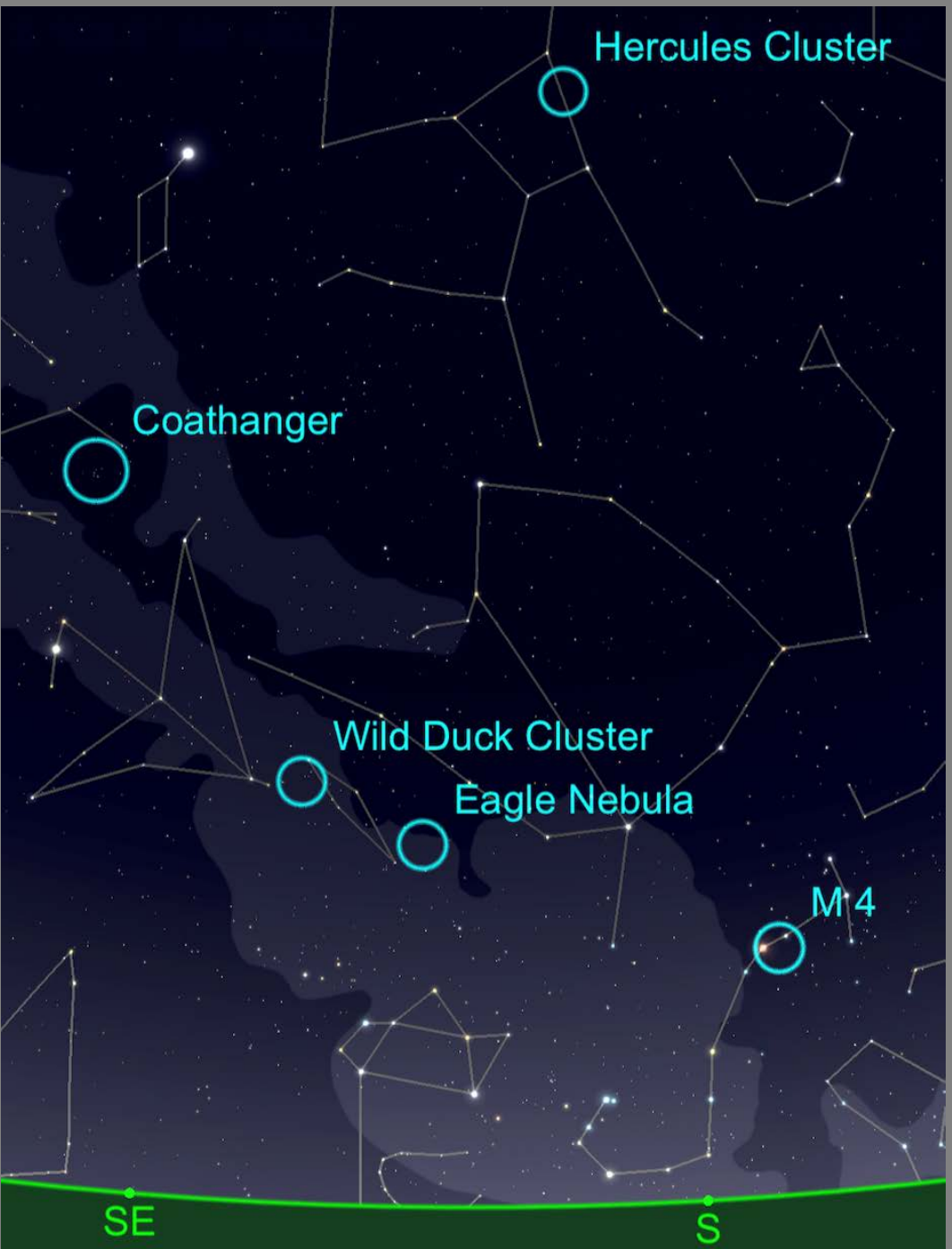
- Algedi

- Dabih

-Nunki (N)

- Albireo

Halifax, NS 25 June 2025 @ 11:30 pm



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)

Halifax, NS 25 June 2025 @ 11:30 pm

Explore the Universe:

Summer Double Stars

Omicron 1 Cygni

Colorful triple (optical) star

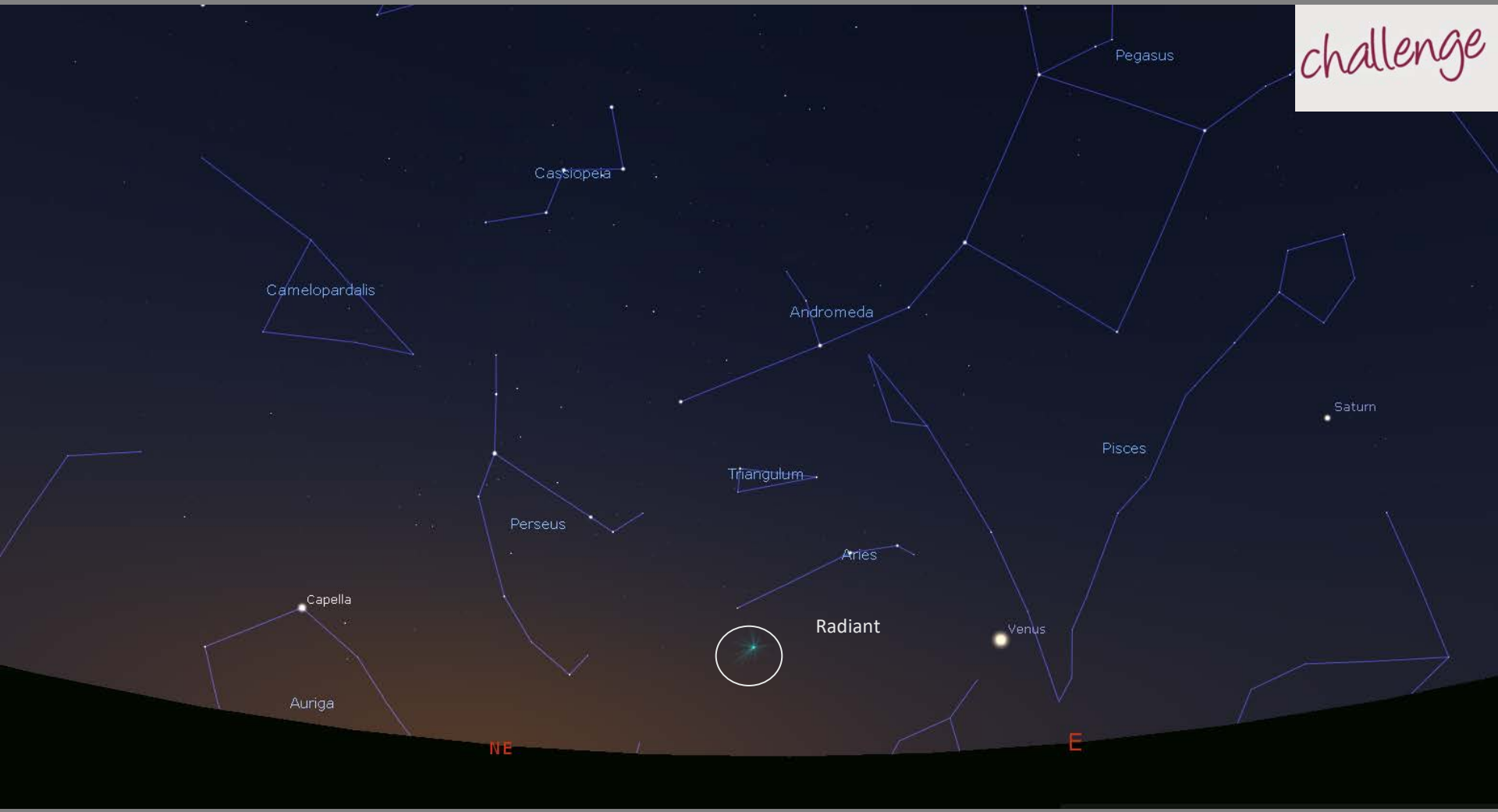
o1 Cyg (red giant) 881 LY distant

30 Cyg (white) 615 LY distant

HD 192579 (blue) 1359 LY distant

The Arietids Meteor Shower (May 29- June 17)

-radiant is in Aries; predicted peak is during the daylight hours of June 7
-expect 60-200 meteors per hour
-best time to view is an hour before dawn



How to hear meteors on your FM radio

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?

photo: David Hoskin