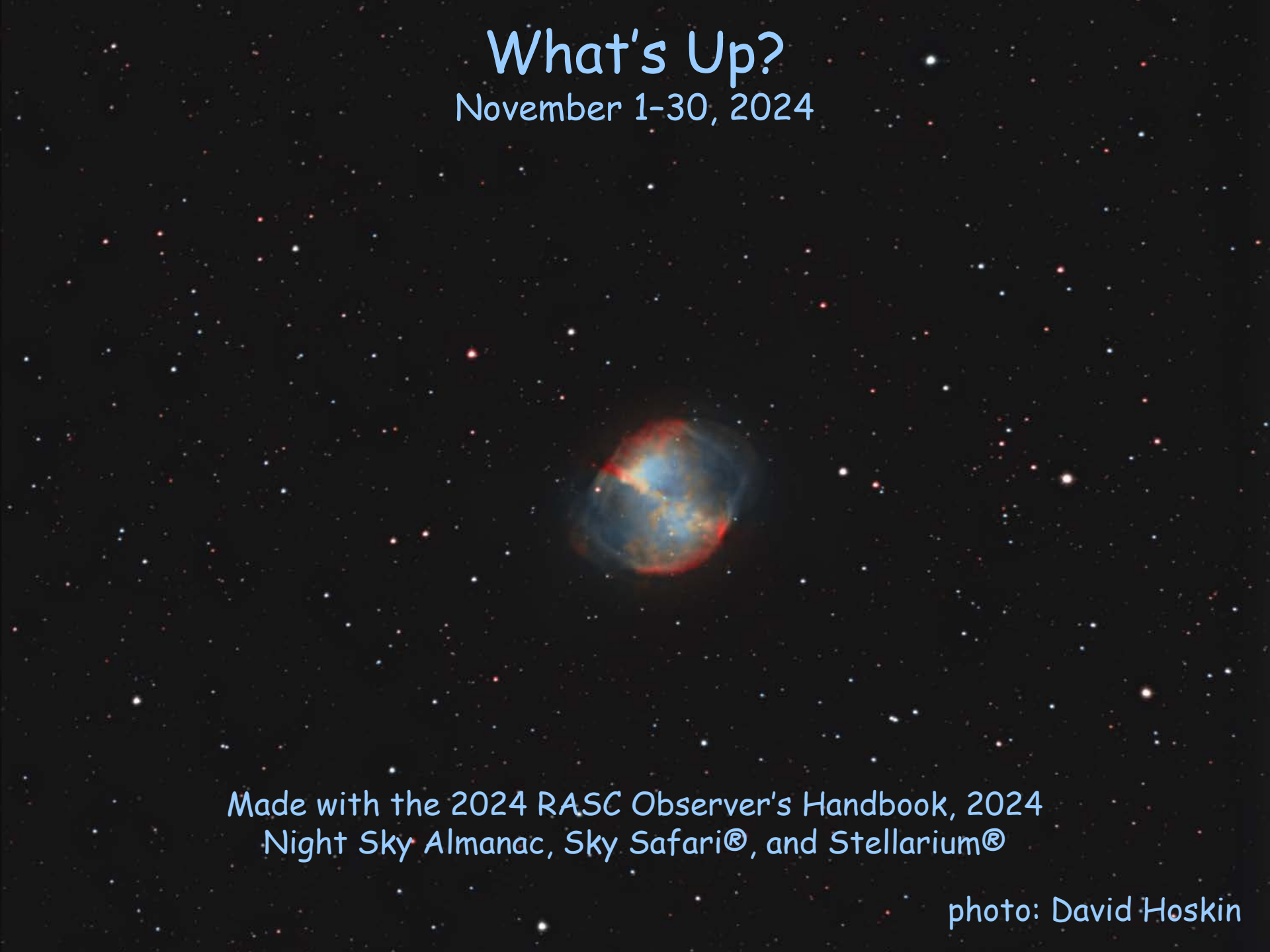
What's Up?

November 1–30, 2024



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

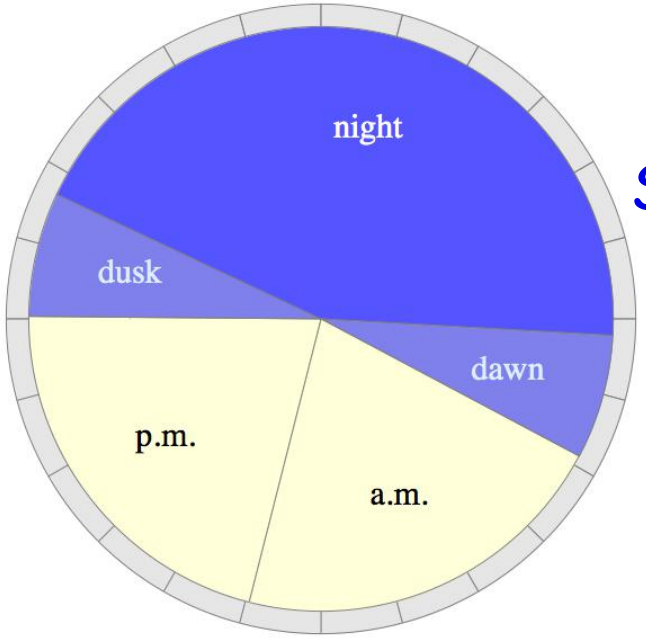
photo: David Hoskin

The Sun This Month

Today's Solar Activity

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	"Noon"	Sunlight	Max Altitude
Nov 1	6:02 p.m.	7:41 p.m.	10.5 h	6:13 a.m.	7:52 a.m.	12:57 p.m.	10.2 h	30.6º
Nov 30	4:35 p.m.	6:19 p.m.	11.4 h	5:46 a.m.	7:30 a.m.	12:03 p.m.	9.1 h	23.6º

Halifax Nov 01

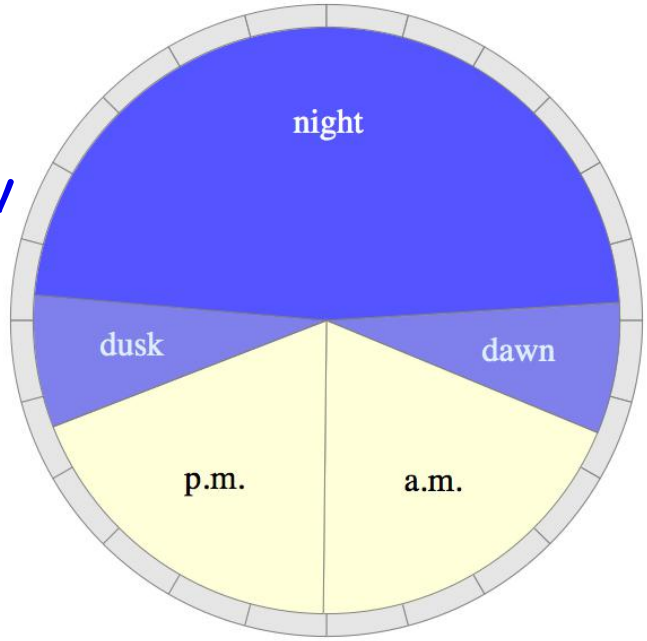


Standard Time

in effect

Sunday 3 Nov

Halifax Nov 30

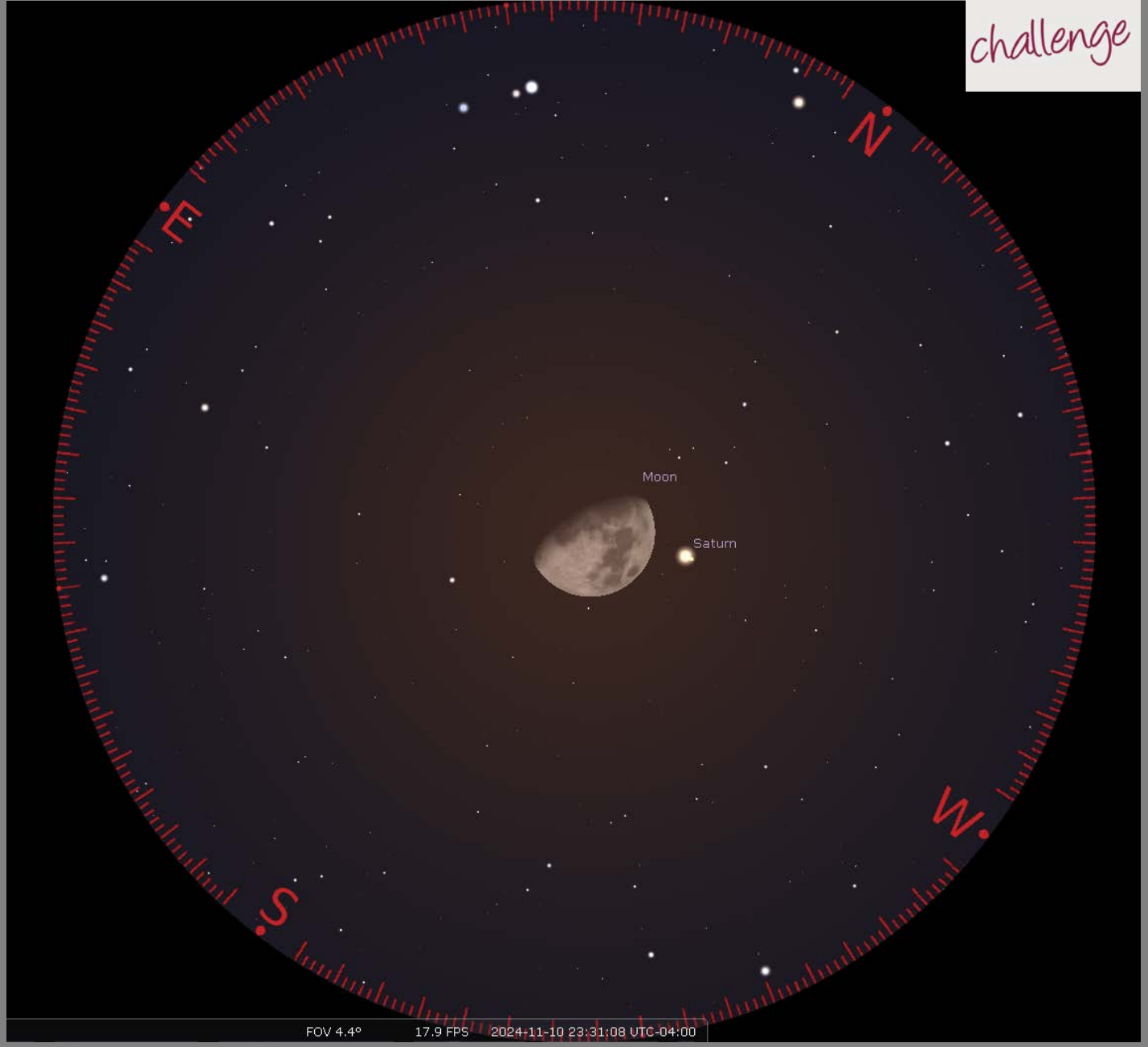


YouTube: RASC Halifax

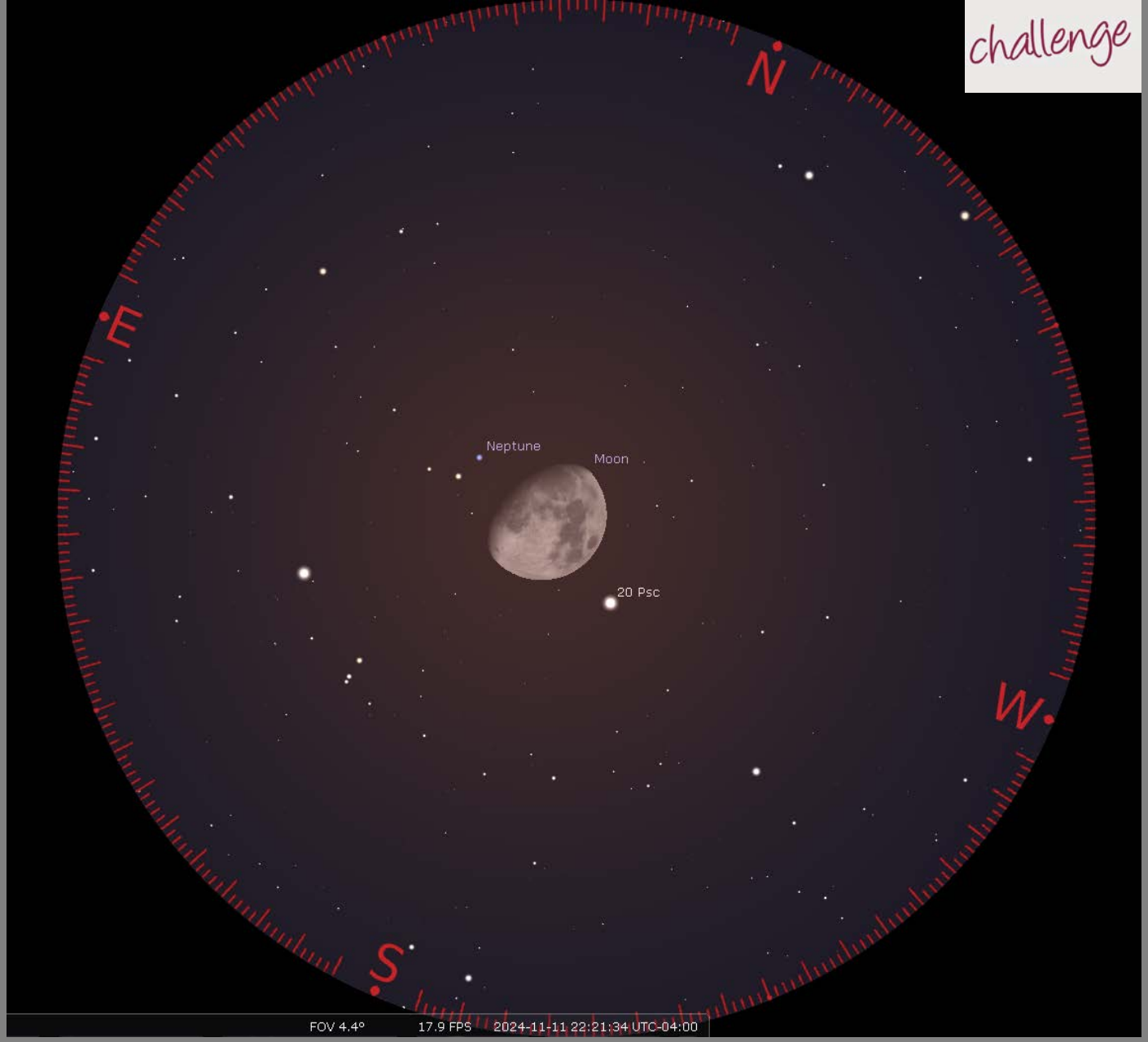
The Moon This Month

Date	Phase	English	Mi'kmaq
Nov 1	*New Moon*	Rivers Freezing Over	Keptekewiku's
Nov 4	Moon near Venus		
Nov 9	*First Quarter*		
Nov 10	Moon-Saturn conjunction		
Nov 11	Moon occults Neptune		
Nov 14	Moon at perigee (360,100 km)		
Nov 15	*Full Moon*		
Nov 15	Moon near the Pleiades		
Nov 16	Moon near Jupiter		
Nov 20	Moon near Mars and M44		
Nov 23	*Last Quarter*		
Nov 26	Moon at apogee (405,300 km)		

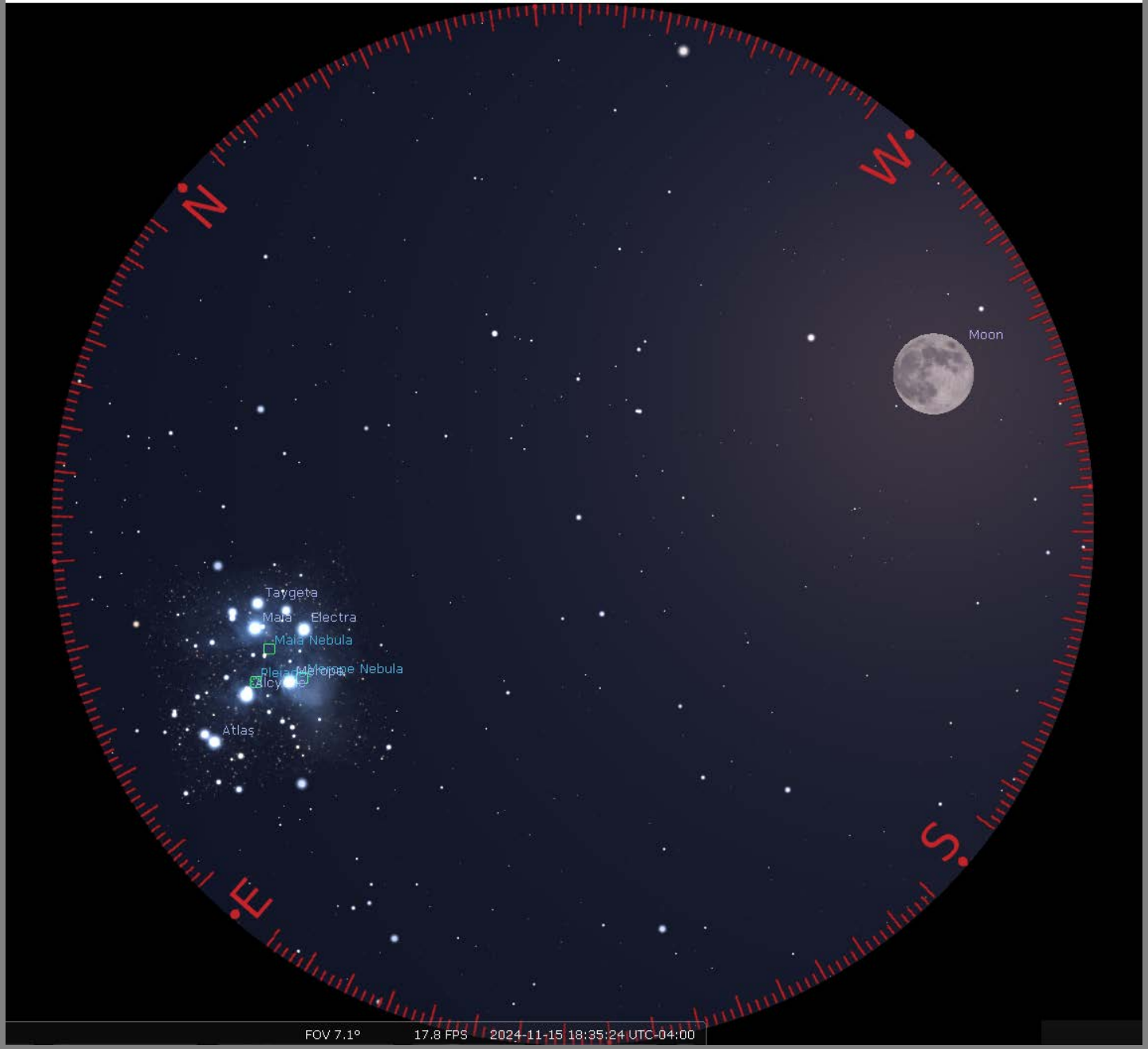
challenge



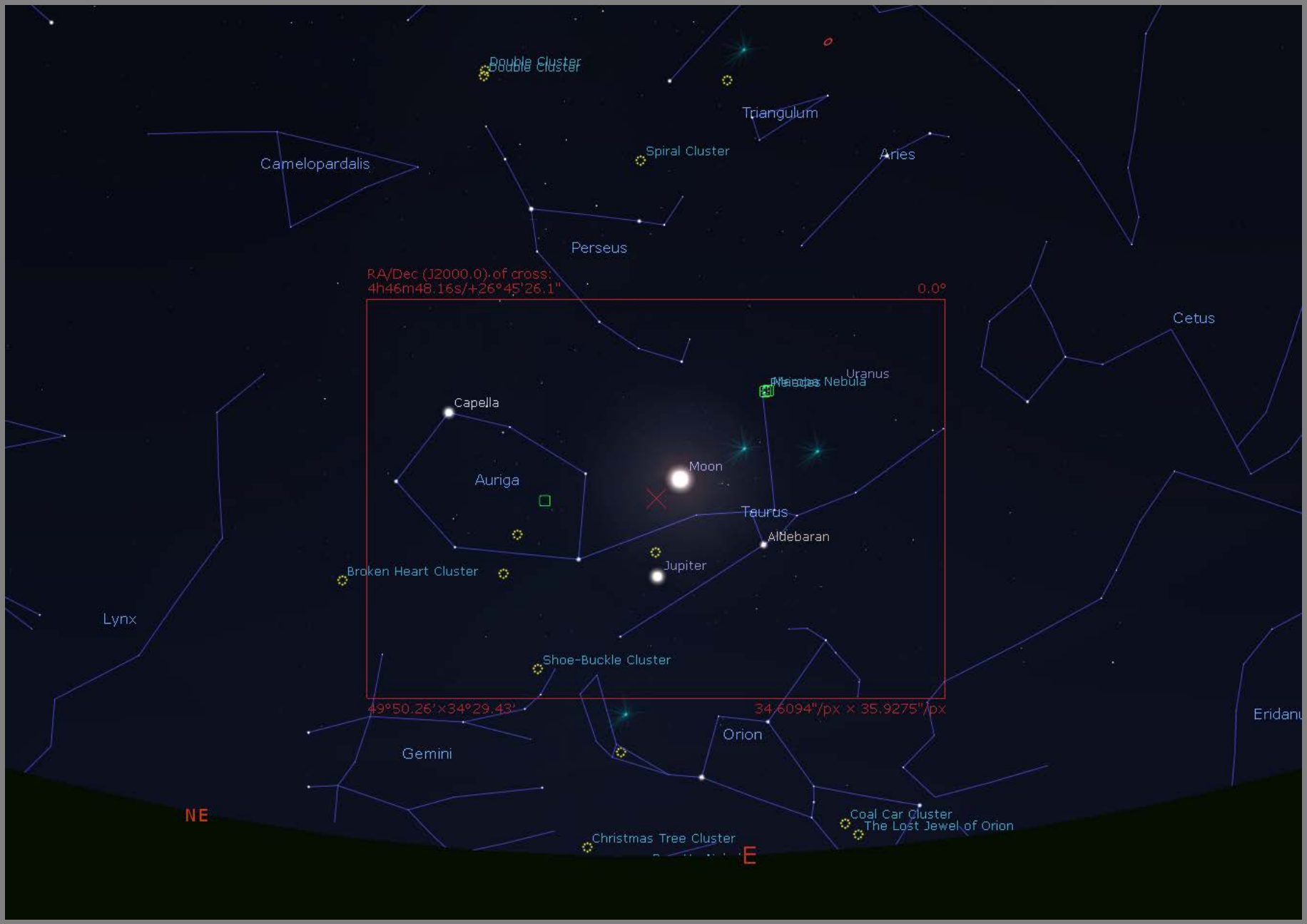
Nov 10 @ 11:30 p.m 15x70 binoculars FOV 4.4°



Nov 11 @ 10:20 p.m 15x70 binoculars FOV 4.4°

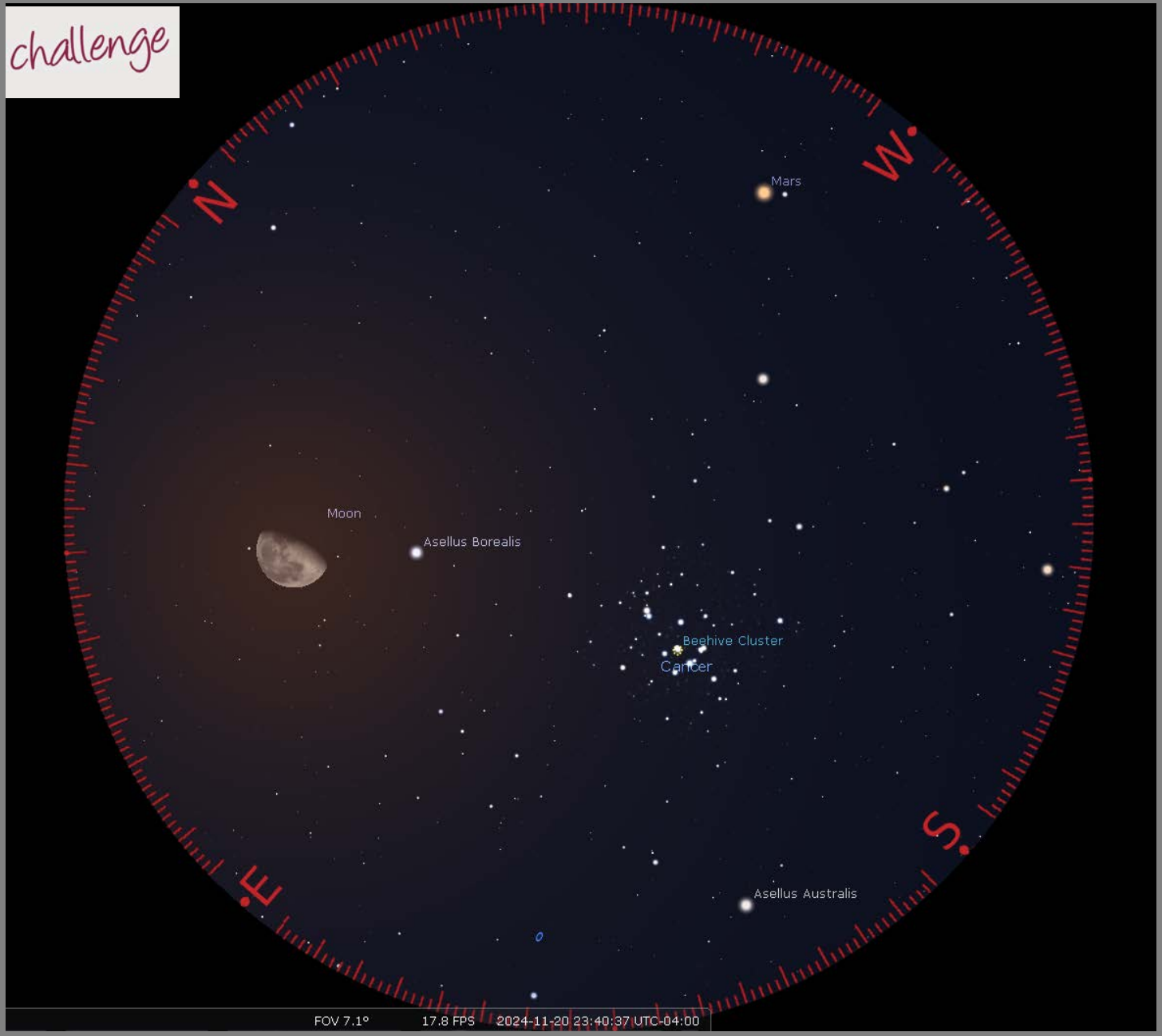


Nov 15 @ 11:00 p.m. 7x50 binoculars FOV 7.1°



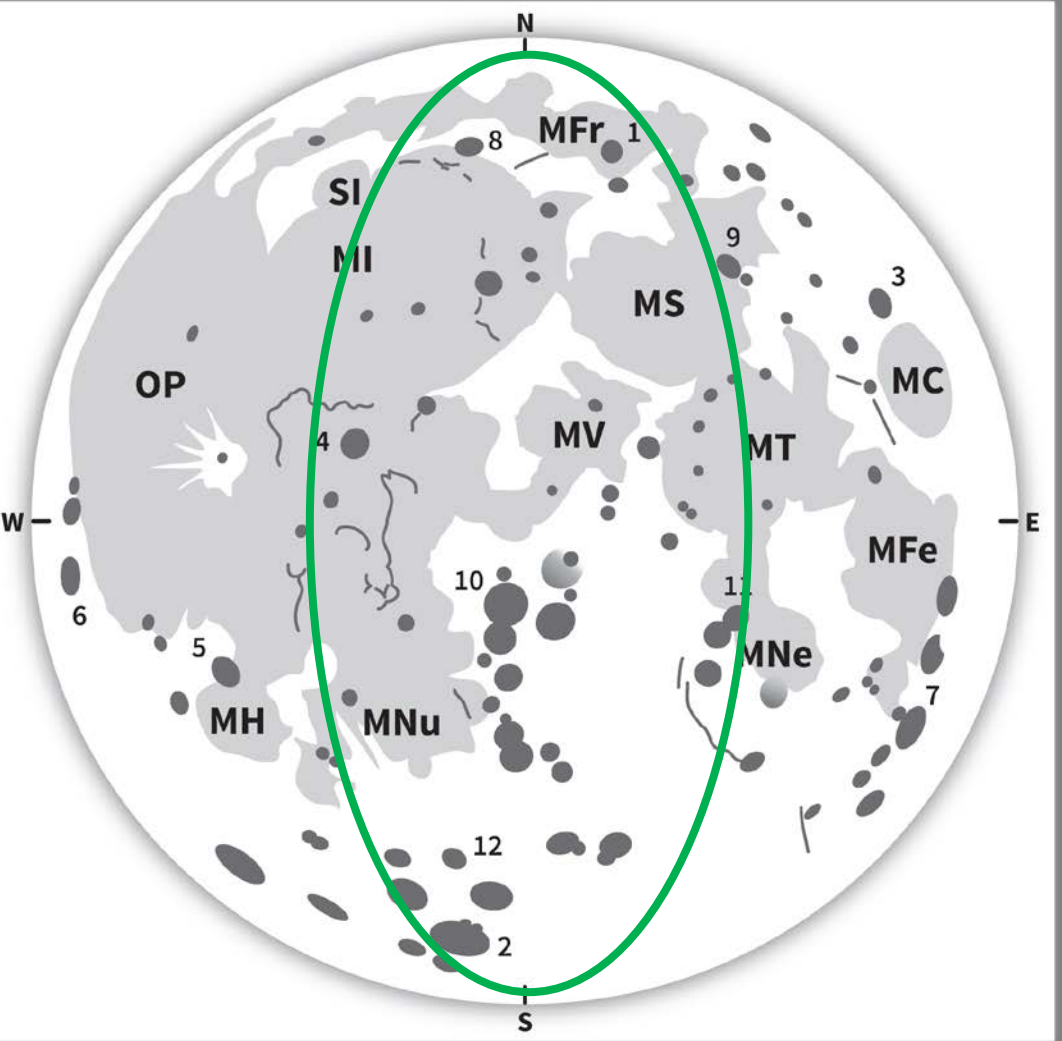
Nov 16 @ 8:30 p.m. DSLR (*APS-C*) and 24mm lens

challenge



Nov 20 @ 11:30 p.m. 7x50 binoculars FOV 7.1°

Nov 20 @ 11:30 p.m. DSLR (APS-C) and 135mm lens



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

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

November 7-11

The Moon in

Explore the Universe

challenge *observe 3 of each in binoculars*

The Planets in November

Mercury-visible very low in the SW (mag.- 0.3) after sunset

Venus -low in the SW (mag. -4.1) after sunset
-close to the waxing crescent Moon on 4 November

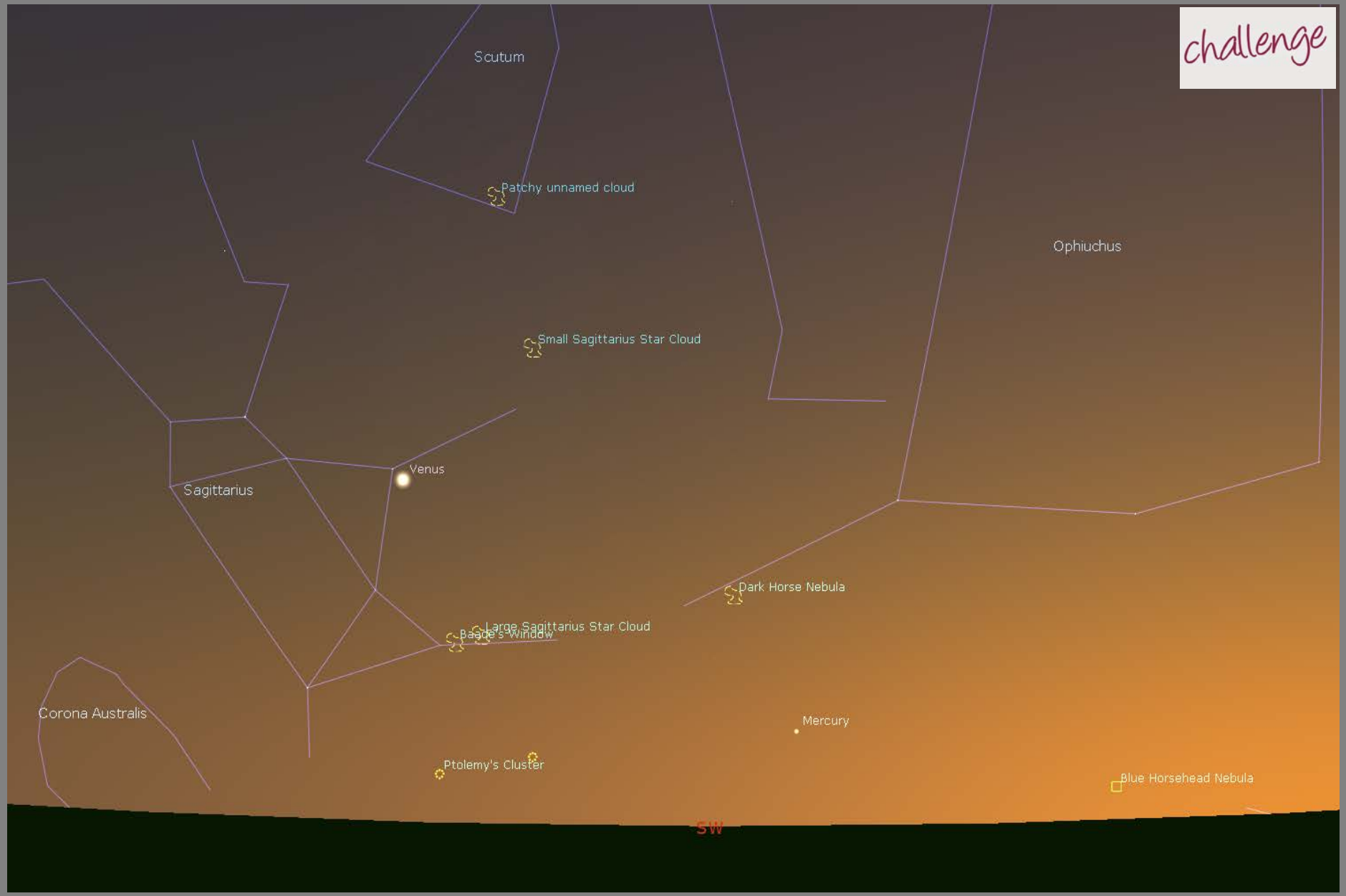
Mars -visible in Cancer (mag. 0.1) and rising before midnight
-brightens as the month progresses to mag. -0.5
-near waning gibbous Moon on 20 November

Jupiter -prominent in Taurus (mag. -2.7), rising after sunset
-near waning gibbous Moon on 16 November

Saturn -visible in Aquarius (mag. 0.8) after sunset
-conjunction with the waxing gibbous Moon on 10 November

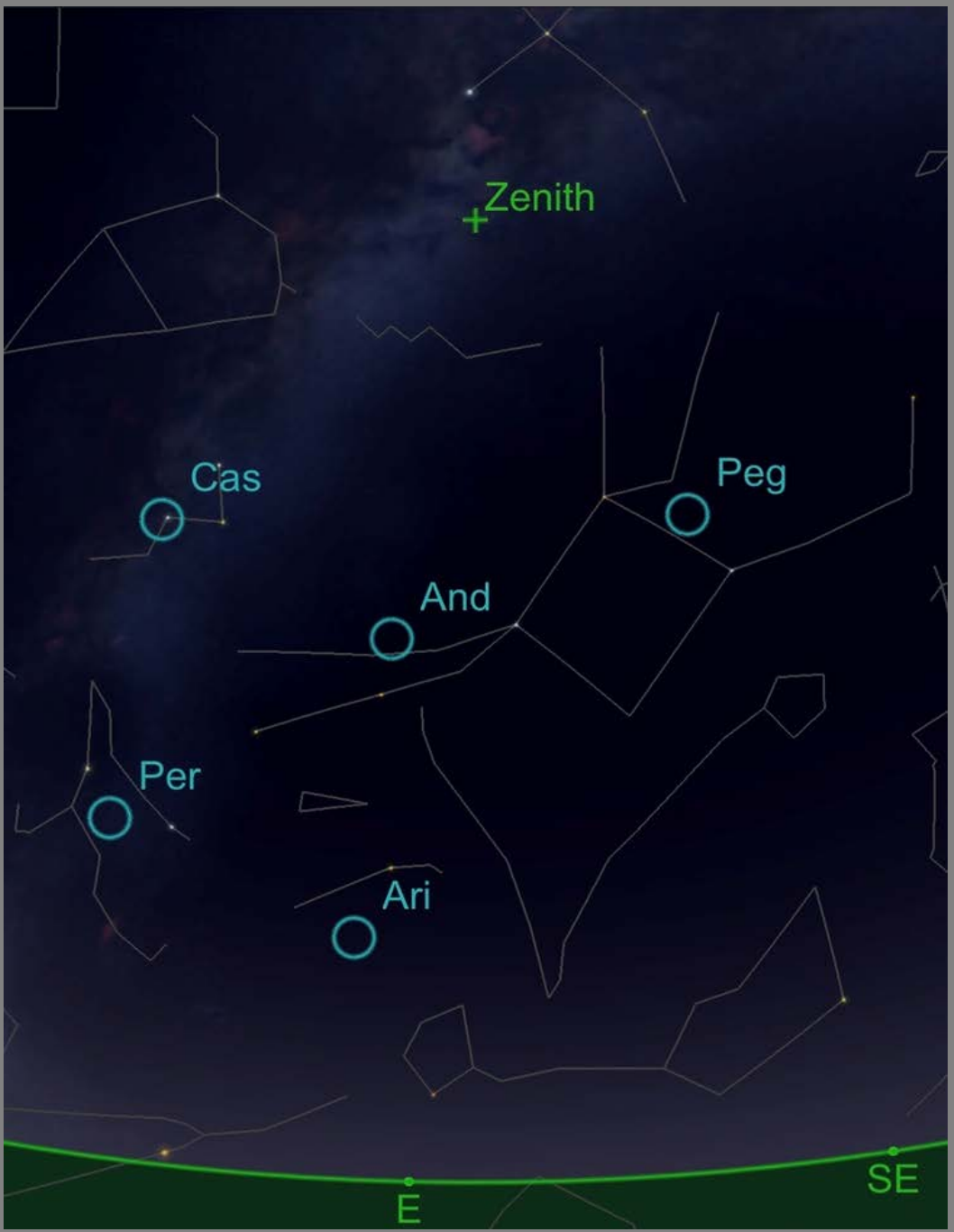
Uranus -visible in Taurus (mag. 5.6) for all of November
-reaches opposition on 17 November

Neptune-visible in Pisces (mag. 7.8) before midnight
-occulted by waxing gibbous Moon @10:34 pm on 11 November


challenge
Scutum
Patchy unnamed cloud
Ophiuchus
Small Sagittarius Star Cloud
Venus
Sagittarius
Dark Horse Nebula
Large Sagittarius Star Cloud
Baade's Window
Corona Australis
Mercury
Ptolemy's Cluster
Blue Horsehead Nebula
SW

Nov 16 @ 5:15 p.m.

Halifax, NS 8 November 2024 @ 6:30 pm



Explore the Universe:

Autumn Constellations

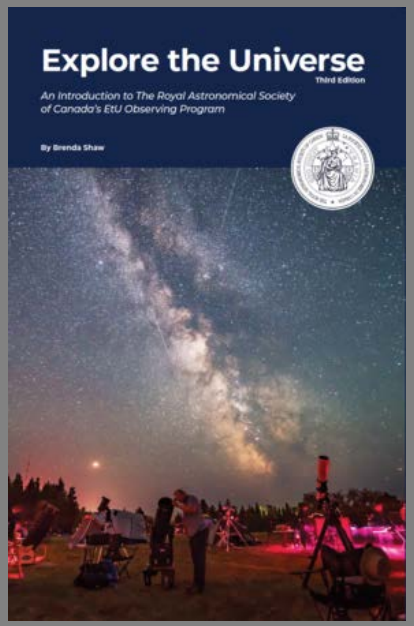
Pegasus

Andromeda

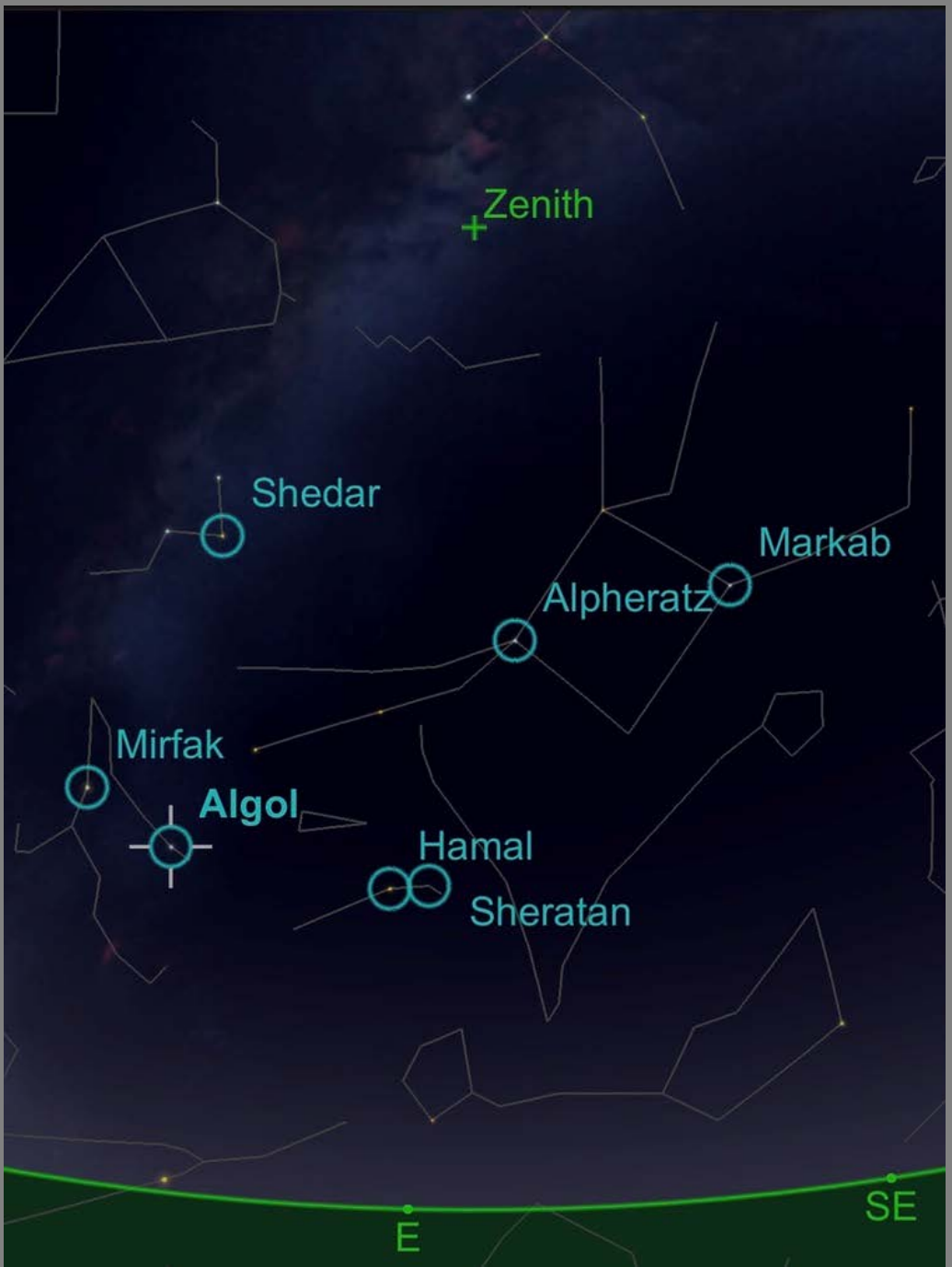
Cassiopeia

Perseus

Aries



Halifax, NS 8 November 2024 @ 6:00 pm



Explore the Universe:

Autumn Stars

Ranking:

#35 Mirfak (N)

Hamal (N)

Alpheratz (N)

Algol

Schedar (N)

Markab

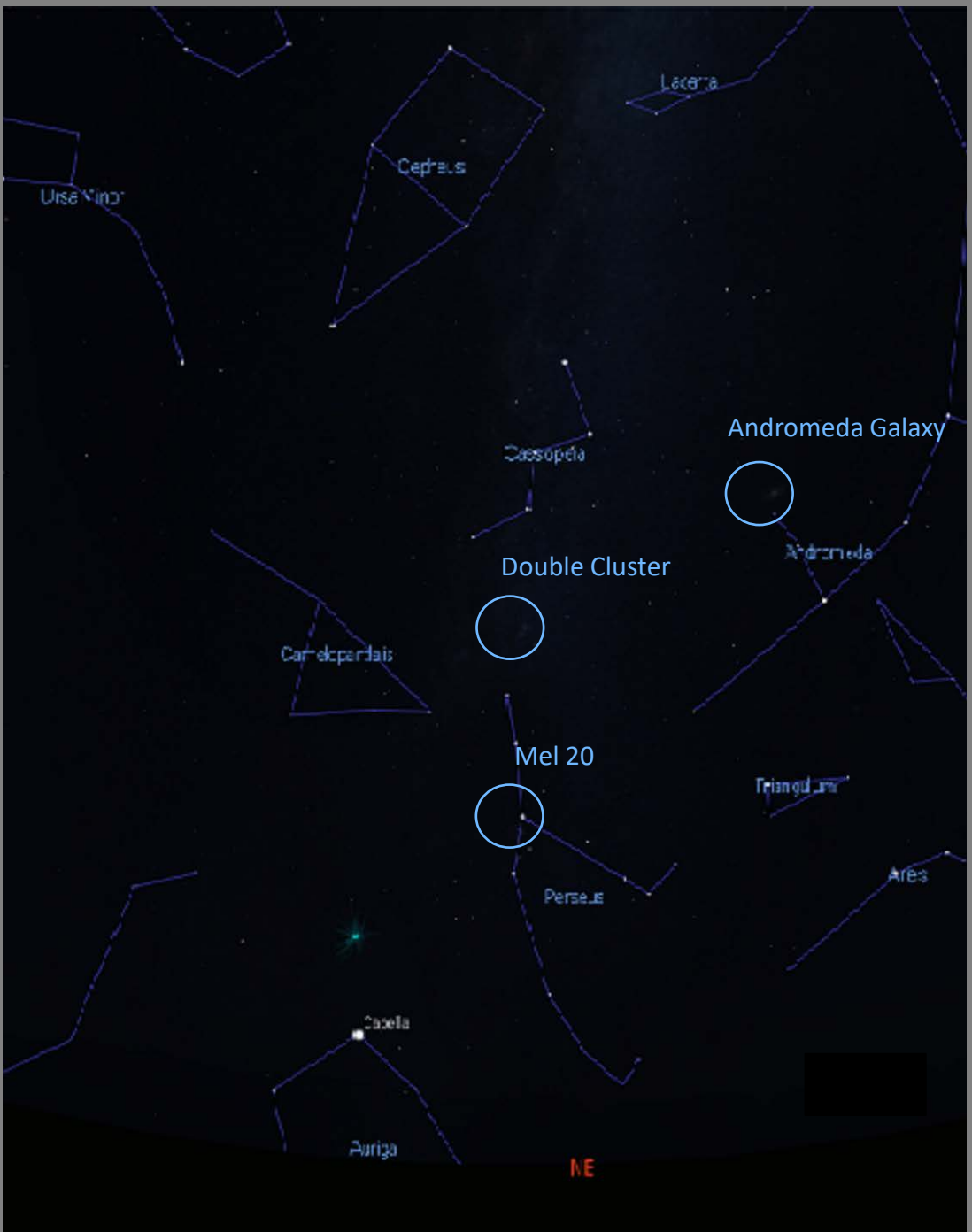
Sheratan

N = Navigation

all good for SynScan alignment

Halifax, NS 8 November 2024 @6:00 pm

Explore the Universe:
Autumn Deep-Sky Objects



Messier 31 (Andromeda Galaxy)

Barred spiral galaxy

M32 and M110 are satellites

Halifax, NS 14 November 2024 @ 7:00 pm

Explore the Universe: Double Star

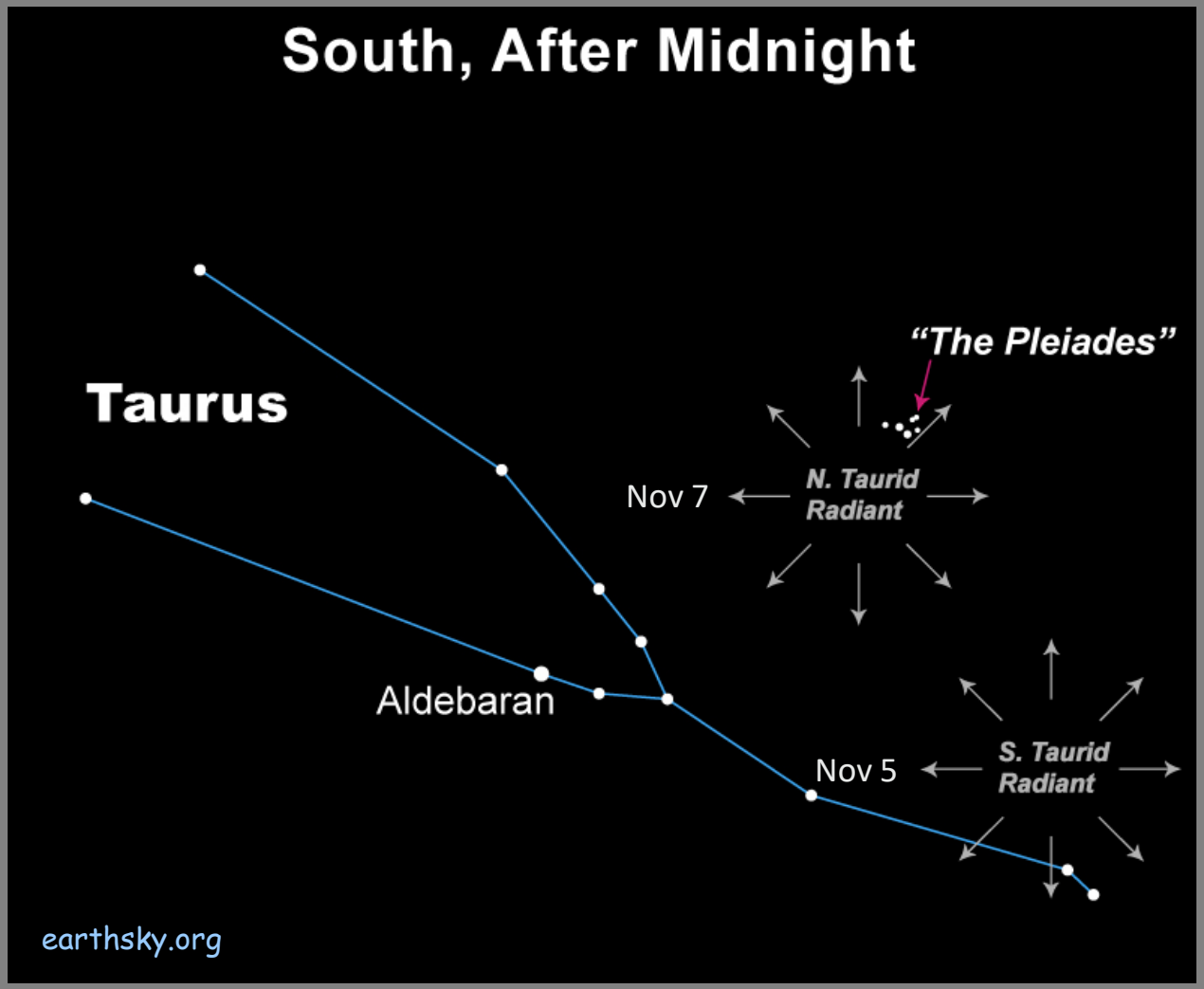
β1 & β2 Capricorni (3.2, 6.1, 207″)

Binocular double star (look after sunset) that is actually 5 stars

β1 Cap (Dabih) is an orange giant

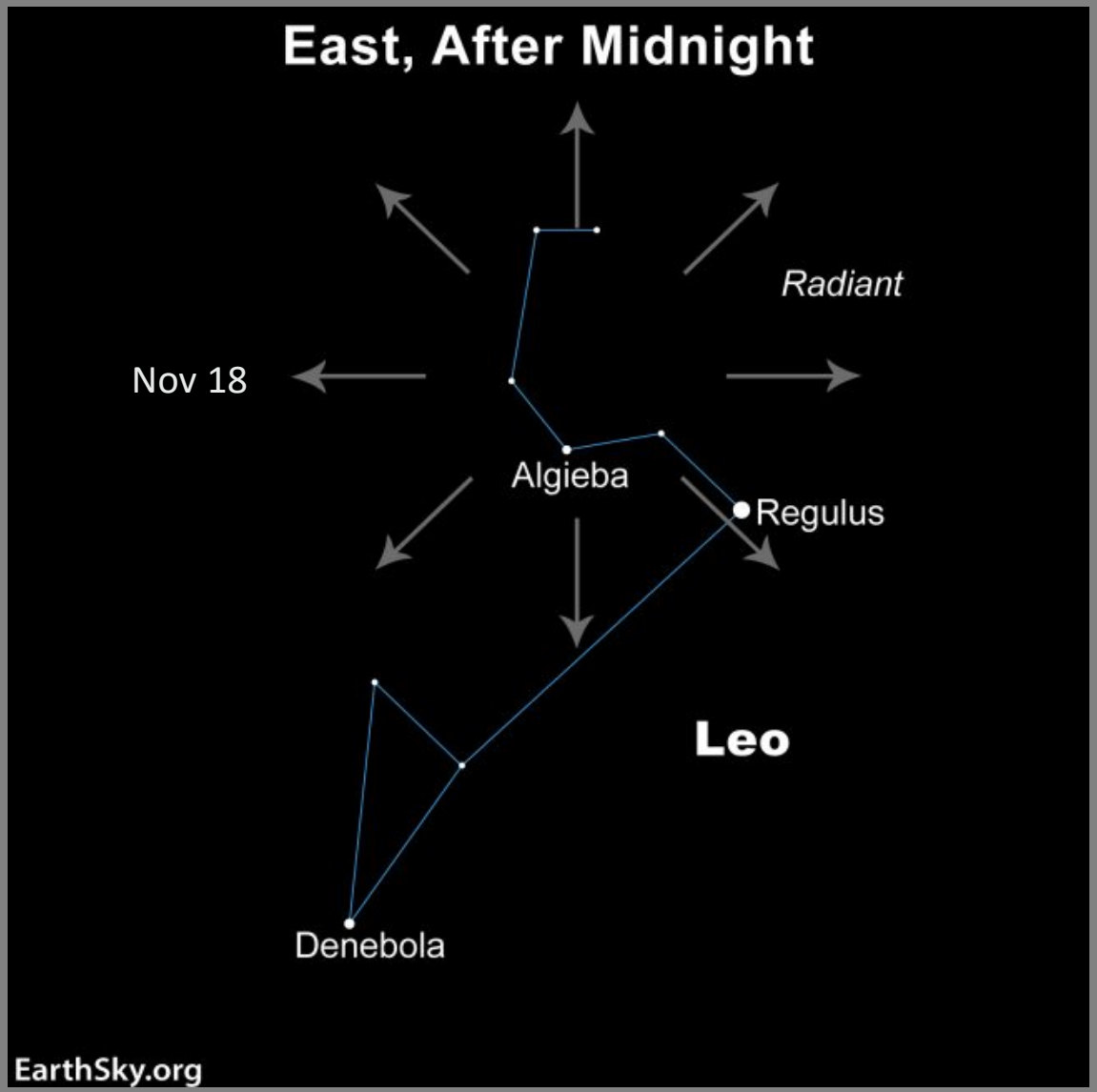
β2 Cap is a white giant

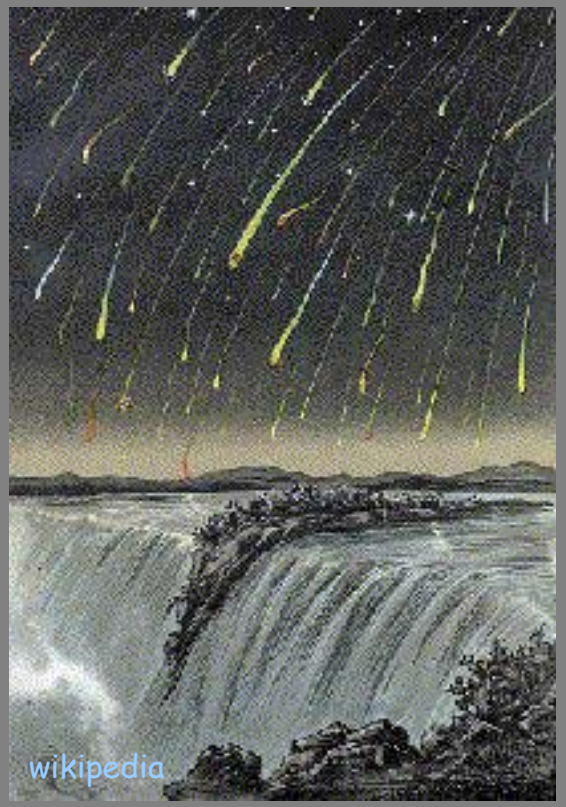
Taurid Meteor Showers



- slow-moving meteors, sometimes very bright
- approximately 5/hour

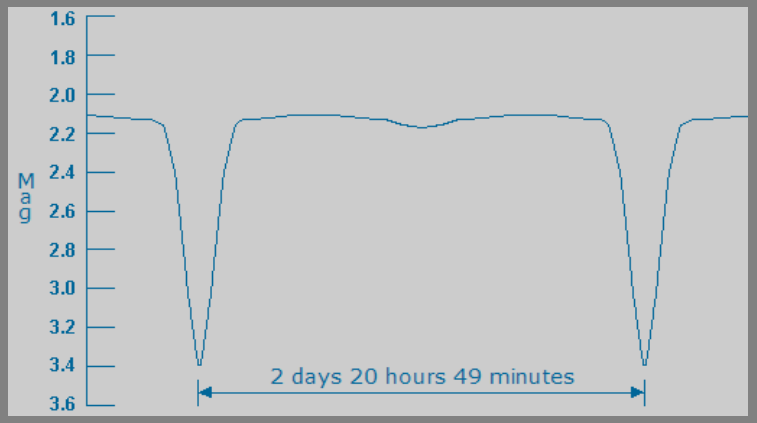
Leonid Meteor Shower





1833 Leonid
meteor storm
(100,000/hour)

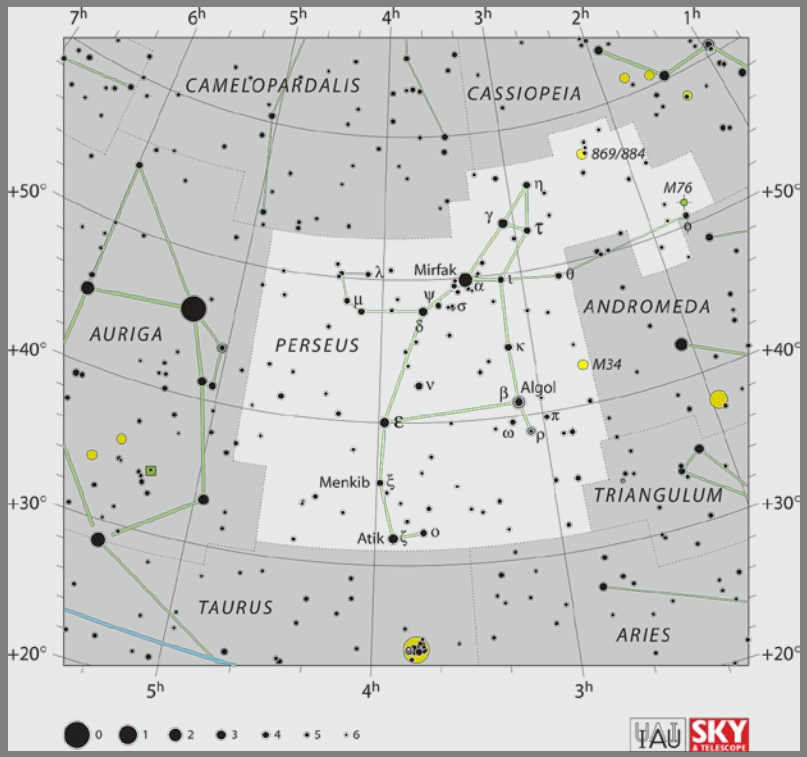
- P55/Temple Tuttle, due back in 2031, is the source

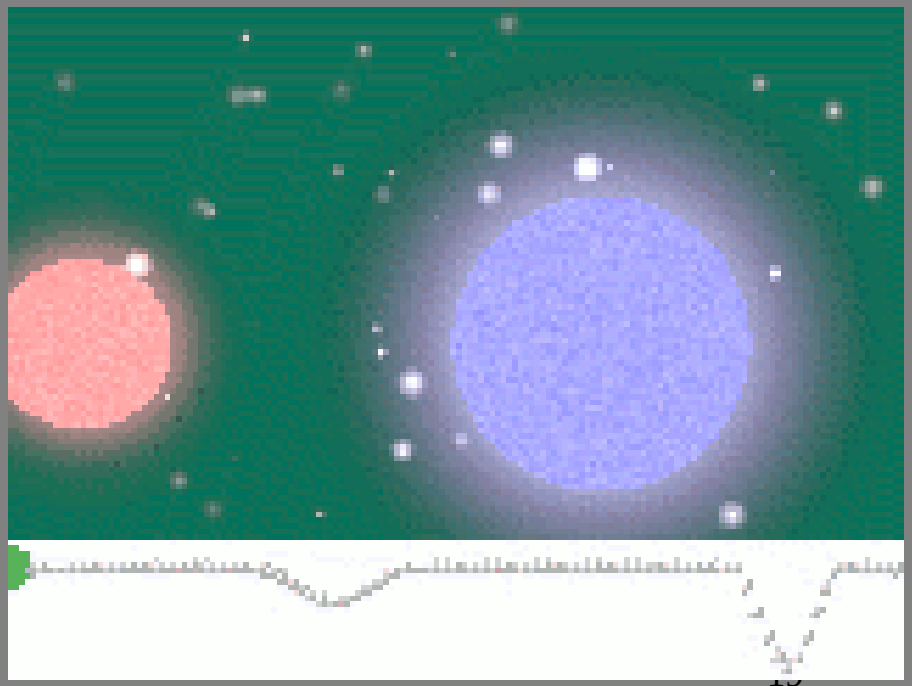


Algol (β Persei)

Nov 5 minimum 9:17 p.m. (mag. 3.2)

Nov 6 maximum 1:45 a.m. (mag. 2.2)





Questions?

observing@halifax.rasc.ca

photo: David Hoskin