

# What's Up?

January 11-31, 2020

made with the RASC Observer's Handbook and SkySafari®



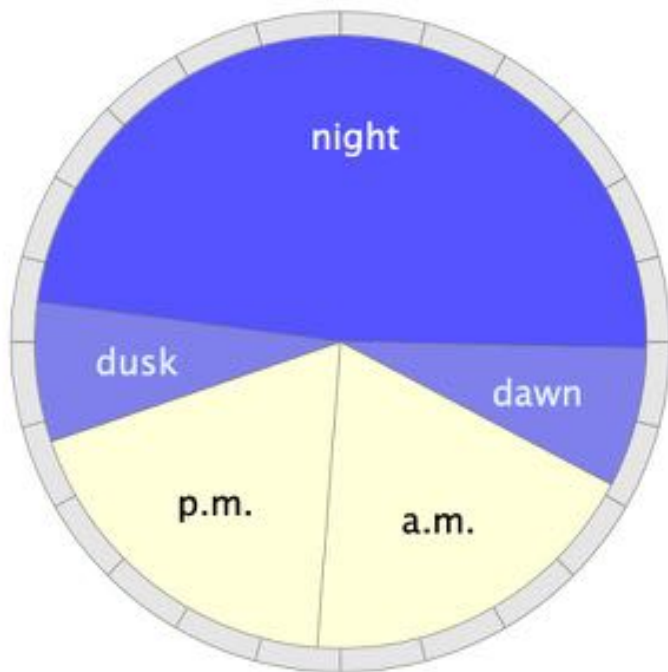
photo: Dan Falk (Easter Island)

# The Sun This Month

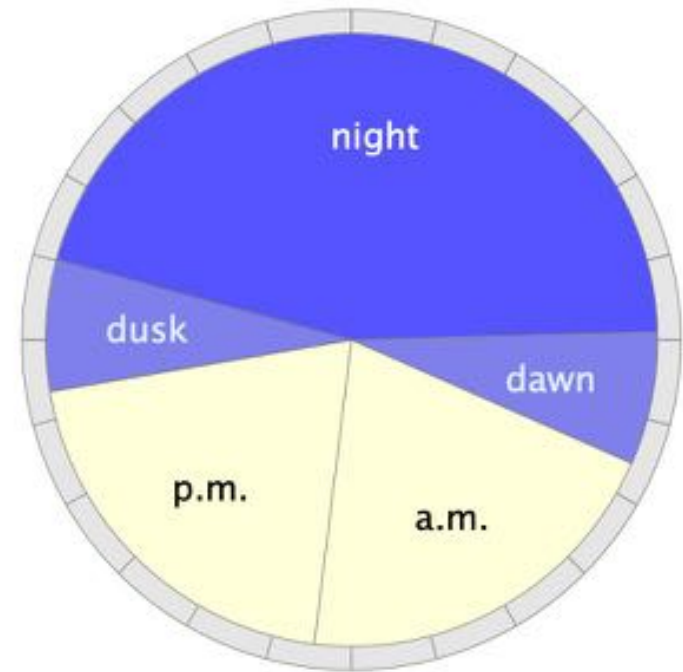
[Solar Activity](#)

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
Jan 1	4:44 p.m.	6:29 p.m.	11 $\frac{3}{4}$ h	6:06 a.m.	7:51 am	12:17 p.m.	9 h	22 $\frac{1}{2}$ °
Jan 31	5:21 p.m.	7:00 p.m.	11 h	5:55 a.m.	7:33 am	12:27 p.m.	9 $\frac{3}{4}$ h	28°

Halifax Jan 01



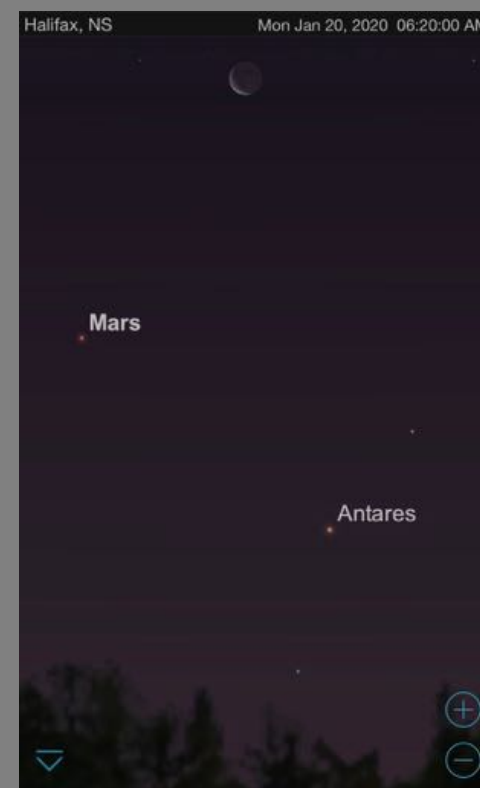
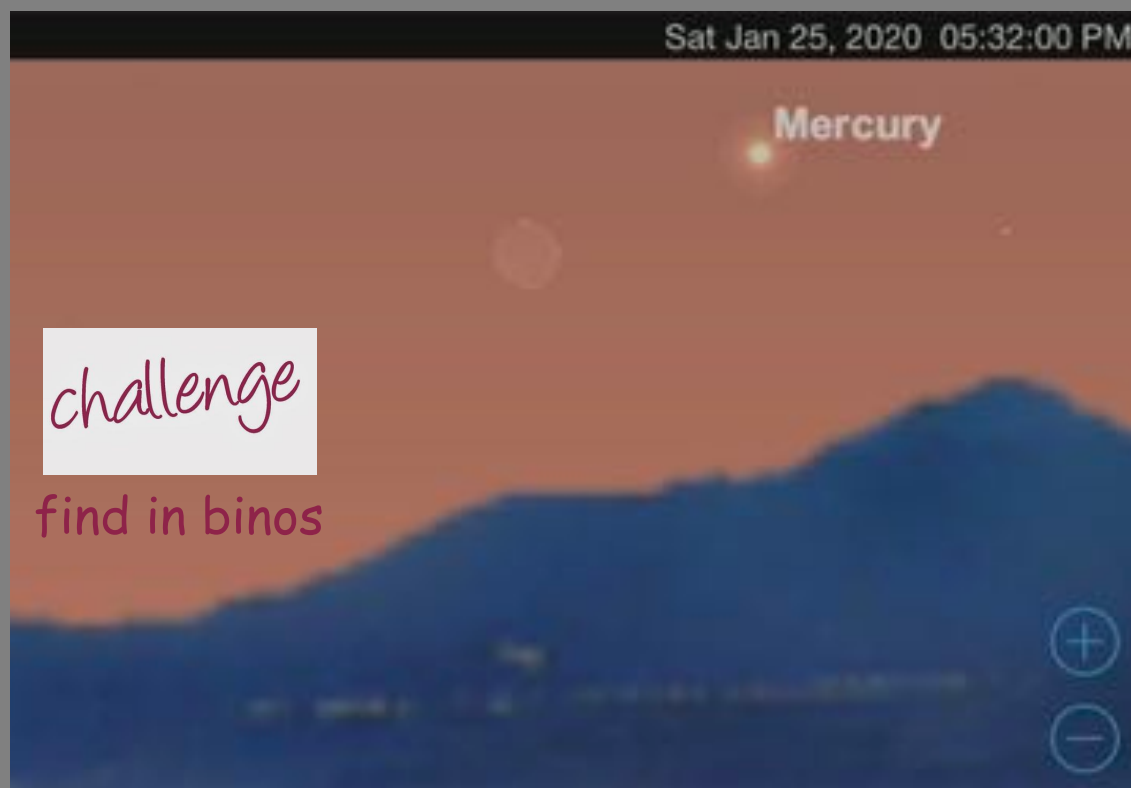
Halifax Jan 31

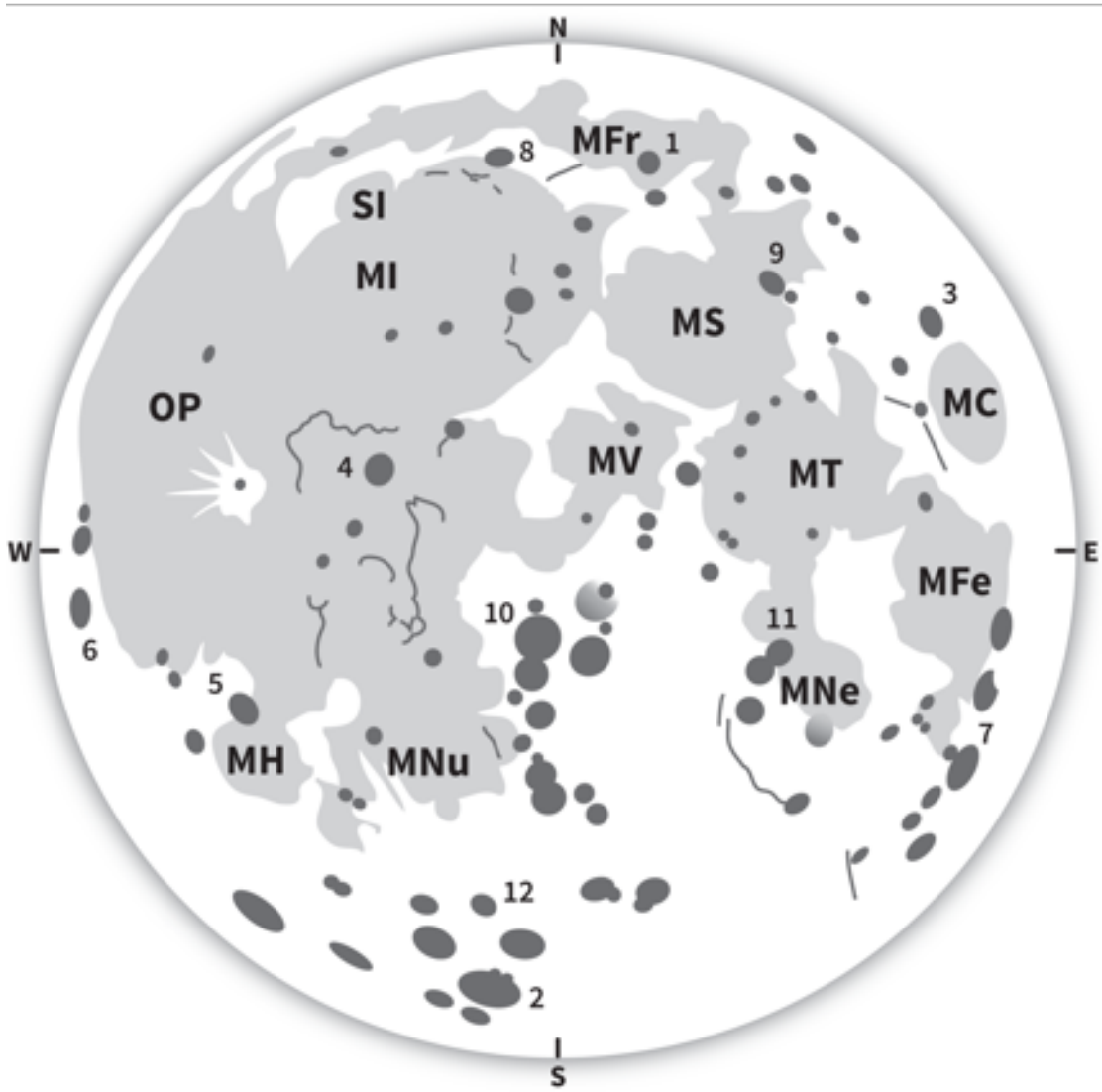


[YouTube: RASC Halifax](#)

# The Moon This Month

Date	Phase	English	Mi'kmaq
Jan 10	Full Moon	Tom Cod Spawning	<a href="#"><u>Punamujuiku's</u></a>
Jan 17	Last Quarter		
Jan 24	New Moon	<i>Year of the Rat</i>	
Jan 25	24 h Moon & Mercury	Snow-Blinding	<a href="#"><u>Apuknajit</u></a>
Jan 27 & 28	Crescent Moon & Venus		





## 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

challenge

## The Moon in

*Explore the Universe*

*observe 3 of each in binos*<sup>4</sup>

# The Planets in January

**Mercury** -behind Sun on Jan 10 (invisible for most of month)  
-low in W twilight in late January / early February  
-lower than  $10^\circ$  above horizon, needs binos (mag. -1)

**Venus** -high in SW (mag. -4)  
-best apparition since 2012  
-near Moon Jan 27 & 28  
-v. close conjunction with Neptune Jan 25

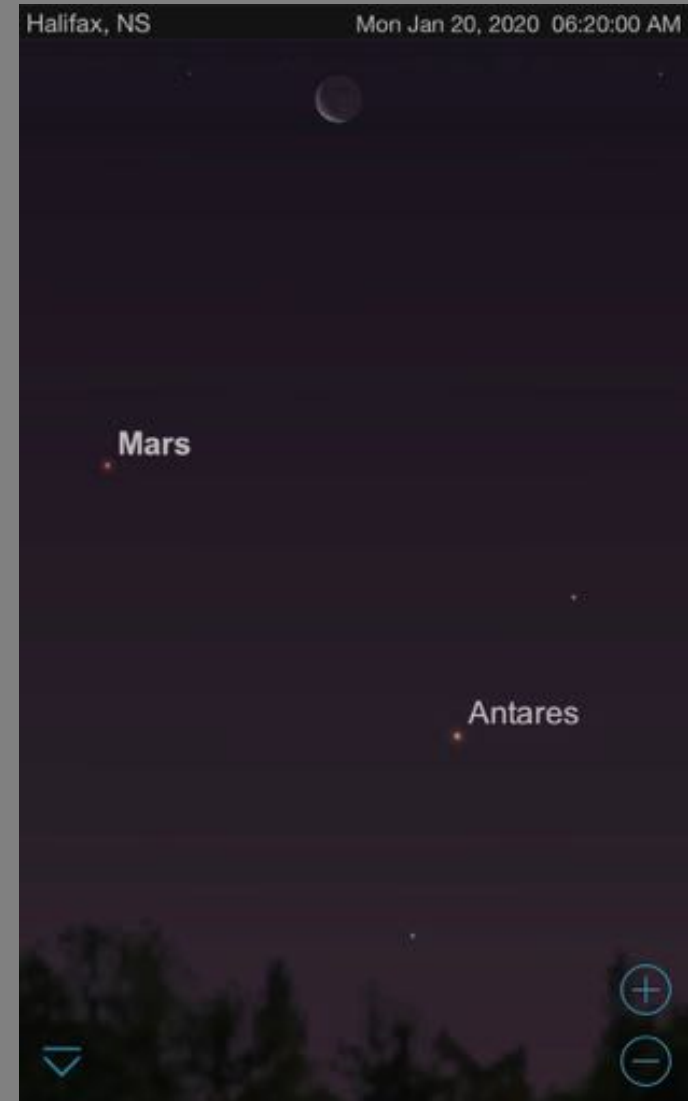
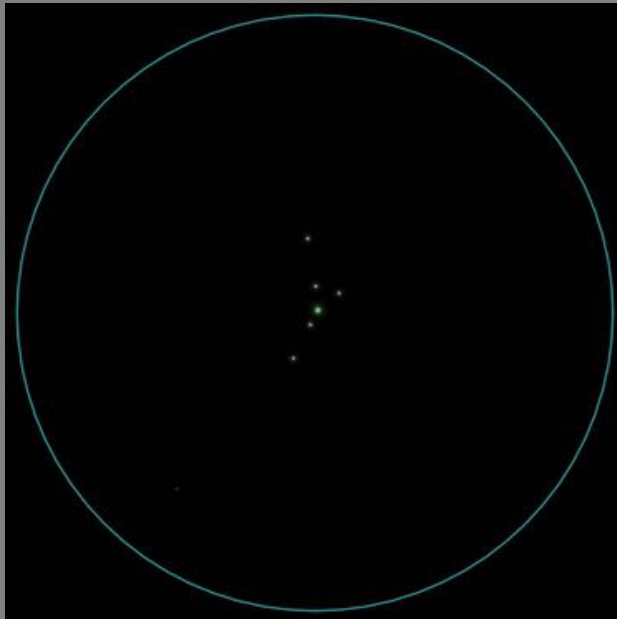
**Mars** -mag. 1.5 morning object  
-nearest Antares (mag. 1.1) Jan 17

**Jupiter**

**Saturn**

**Uranus** -in Aries all year  
-mag. 5.8  
-observe moons?

**Neptune**-mag. 7.9 in Aqr  
-see Venus



Halifax, NS

Fri Jan 17, 2020 09:00 PM



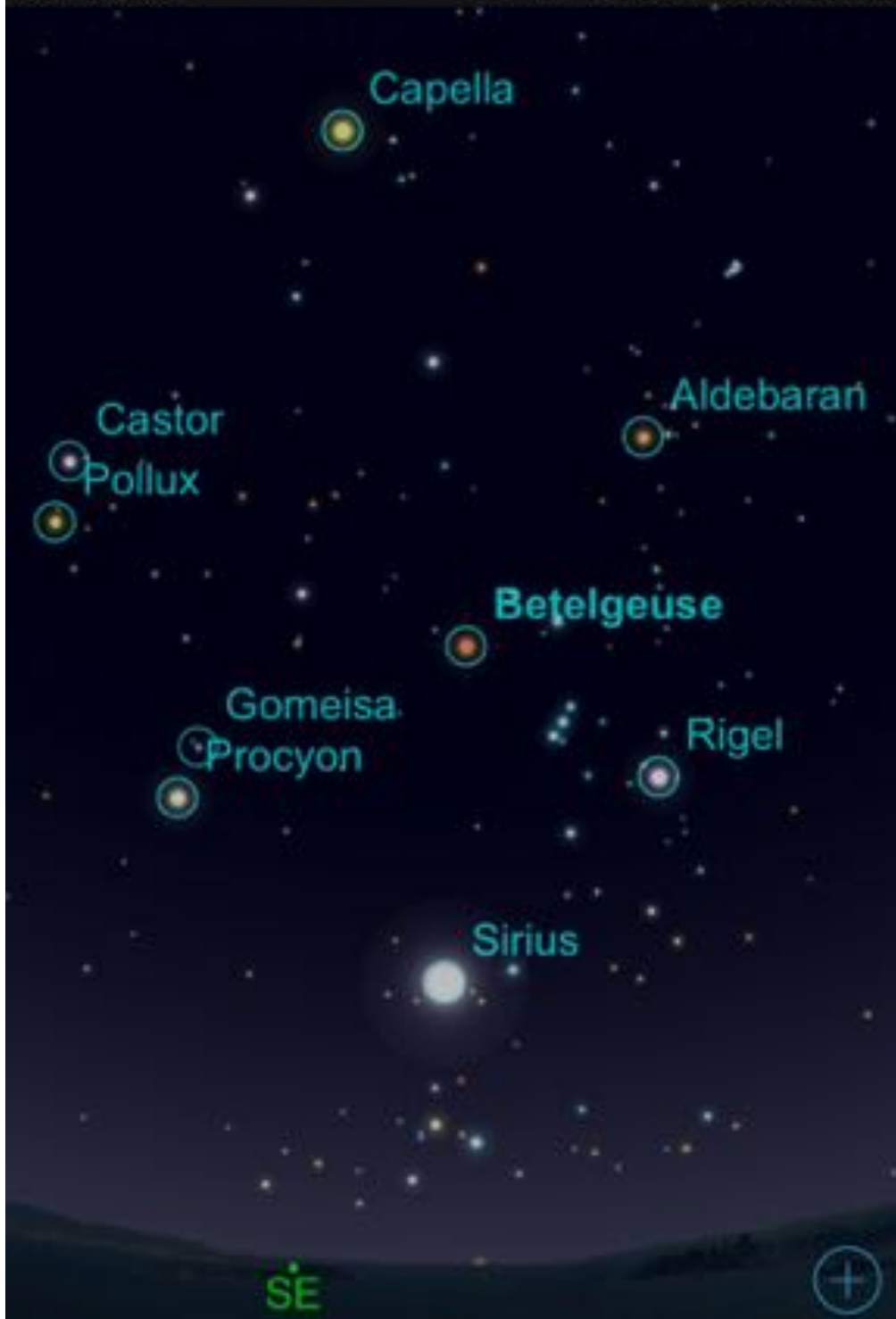
# Explore the Universe: Winter Constellations





Halifax, NS

Fri Jan 17, 2020 09:00:00 PM



# Explore the Universe:

## Winter Stars

*Ranking:*

#1 Sirius

#6 Capella

#7 Rigel

#8 Procyon

#10 Betelgeuse

#13 Aldebaran

#16 Pollux

Halifax, NS

Fri Jan 17, 2020 09:00:00 PM

Kemble's Cascade

Algol

M 37

Pleiades

M 35

Hyades

Orion Nebula

M 47

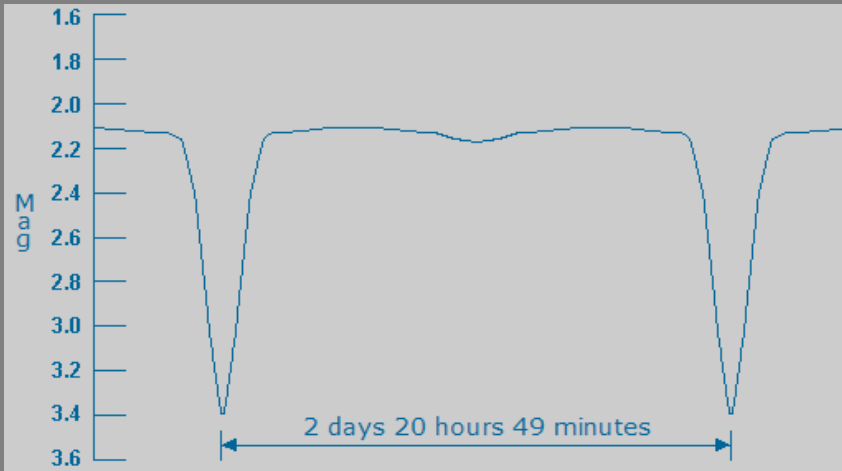
# Explore the Universe: Winter Deep-Sky

*challenge*

Kemble's Cascade  
(view in binoculars)





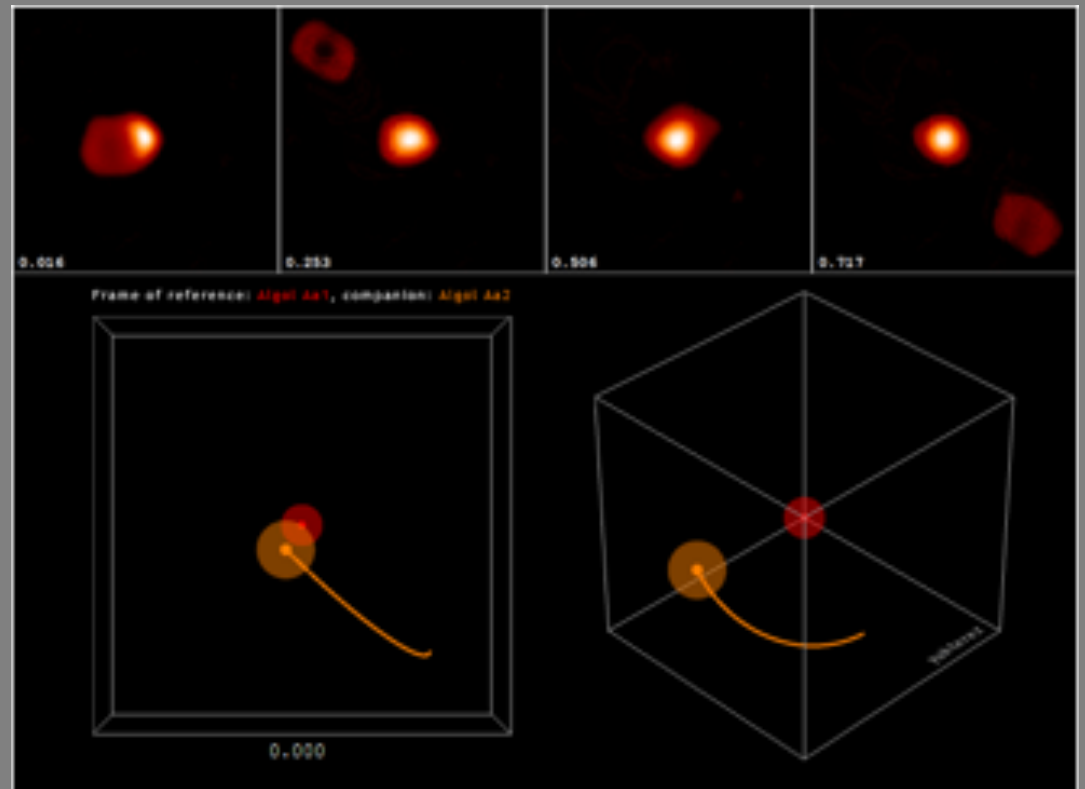
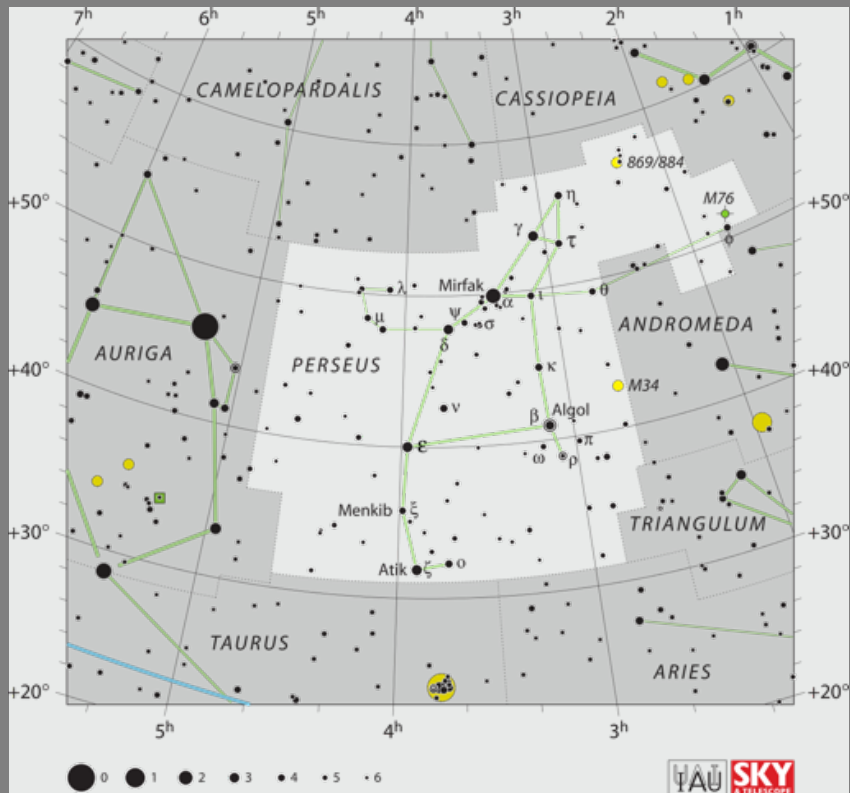


# Algol ( $\beta$ Persei)

Jan 17 fades 8 p.m. - 1 a.m.

Jan 22 brightens 6 p.m. - 11 p.m.

challenge observe one of these



Questions?

