

# What's Up?

January 1-31, 2021

made with the RASC Observer's Handbook and SkySafari®



photo: Dan Falk (Easter Island)

# The Sun This Month

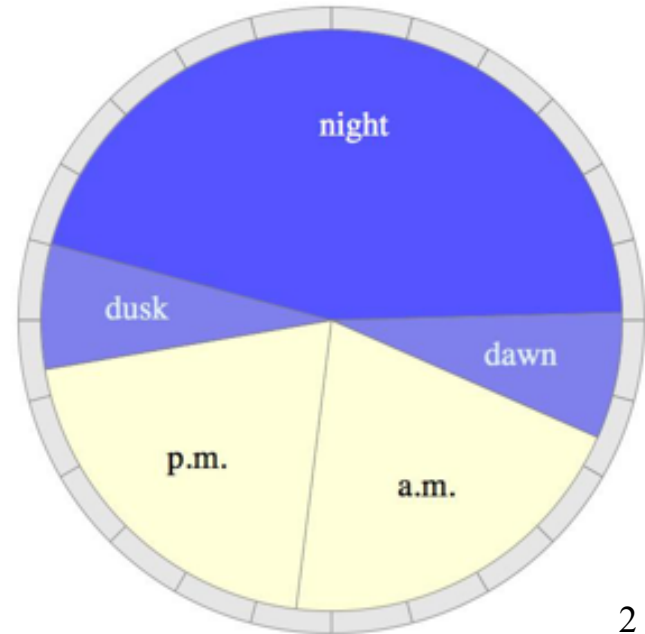
Solar Activity

| Date   | Sunset    | Dusk End  | Darkness | Dawn Start | Sunrise | “Noon”     | Sunlight | Max Altitude |
|--------|-----------|-----------|----------|------------|---------|------------|----------|--------------|
| Jan 1  | 4:44 p.m. | 6:29 p.m. | 11.6 h   | 6:05 a.m.  | 7:51 am | 12:17 p.m. | 8.9 h    | 22°          |
| Jan 31 | 5:21 p.m. | 7:01 p.m. | 10.9 h   | 5:54 a.m.  | 7:34 am | 12:27 p.m. | 9.8 h    | 28°          |

Halifax Jan 01

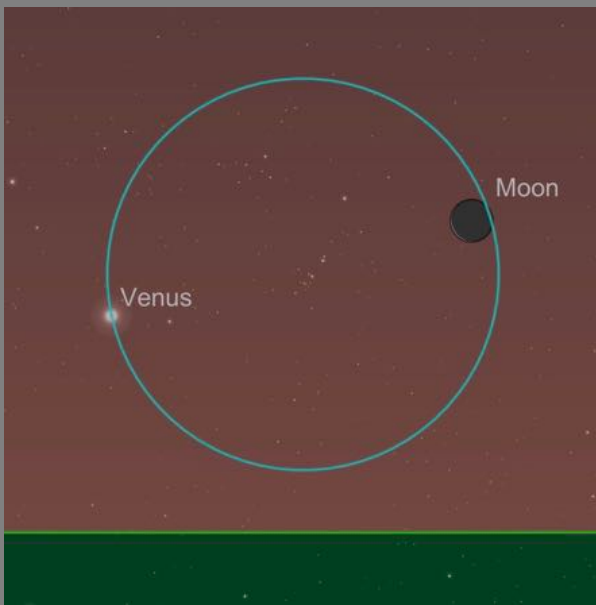


Halifax Jan 31



# The Moon This Month

| Date        | Phase                                         | English          | Mi'kmaq                              |
|-------------|-----------------------------------------------|------------------|--------------------------------------|
| Jan 6       | Last Quarter                                  | Chief Moon       | Kjiku's                              |
| Jan 11      | Crescent Moon & Venus                         |                  |                                      |
| Jan 13      | New Moon                                      | Tom Cod Spawning | <a href="#"><u>Punamujuiku's</u></a> |
| Jan 13 & 14 | Crescent Moon near Jupiter, Saturn, & Mercury |                  |                                      |
| Jan 20      | First Quarter                                 |                  |                                      |
| Jan 20/21   | Moon near Mars & Uranus                       |                  |                                      |
| Jan 28      | Full Moon                                     | Tom Cod Spawning | <a href="#"><u>Punamujuiku's</u></a> |



Jan11

- Moon and Venus
- around 7:00 a.m in SE
- 5° field /photo op

## MARE

MC: Mare Crisium

MFe: Mare Fecunditatis

MFr: Mare Frigoris

MH: Mare Humorum

SI: Sinus Iridum

MI: Mare Imbrium

MNe: Mare Nectaris

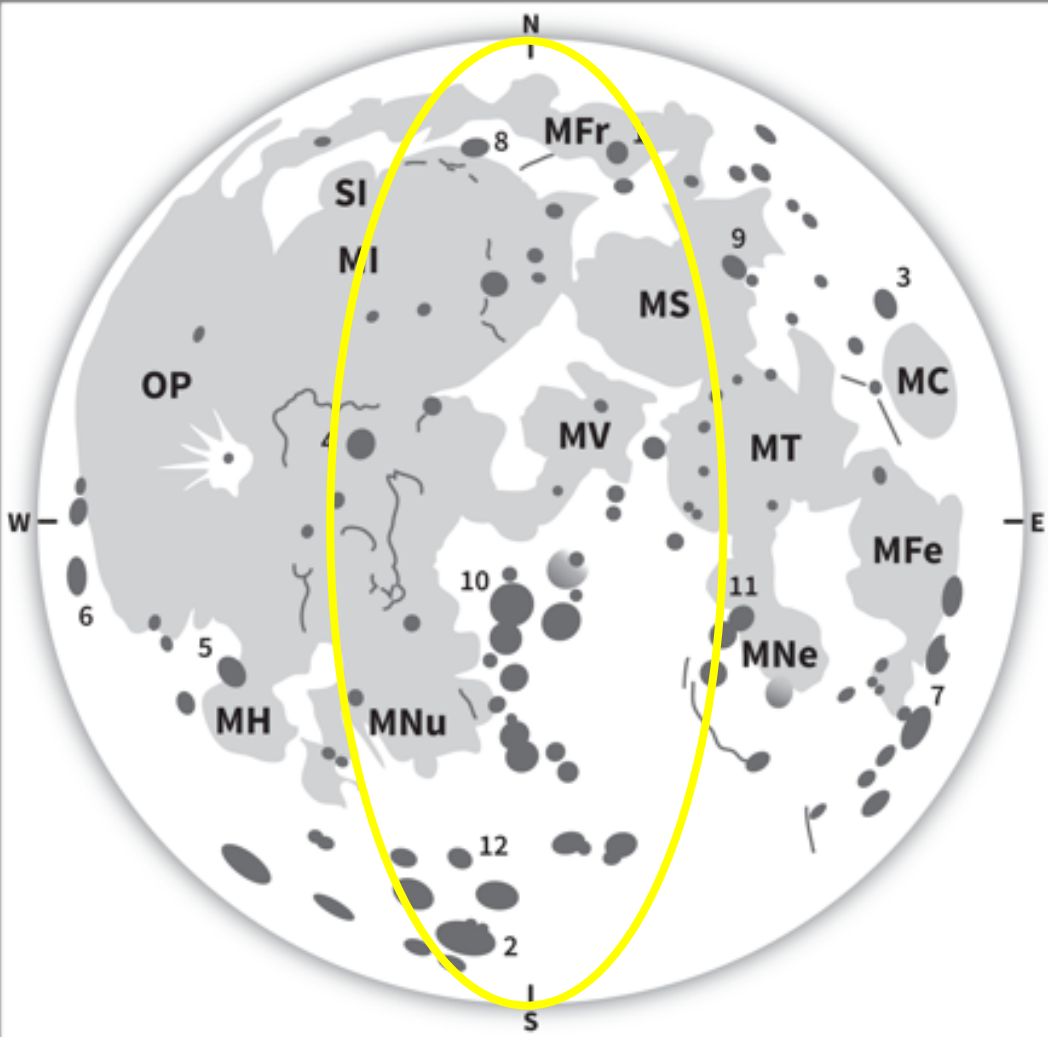
MNu: Mare Nubium

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

First Quarter: Jan 20

The Moon in  
*Explore the Universe*  
*observe 3 of each in binos*

challenge

# The Planets in January

Mercury -nice trio with Jupiter & Saturn Jan 9, 10, and 11, but very low in SW  
-Greatest Elongation East on Jan 24 ( $19^\circ$ ) (in western evening sky)  
-look ~1 week either side  
-may need binos (mag. -0.7)

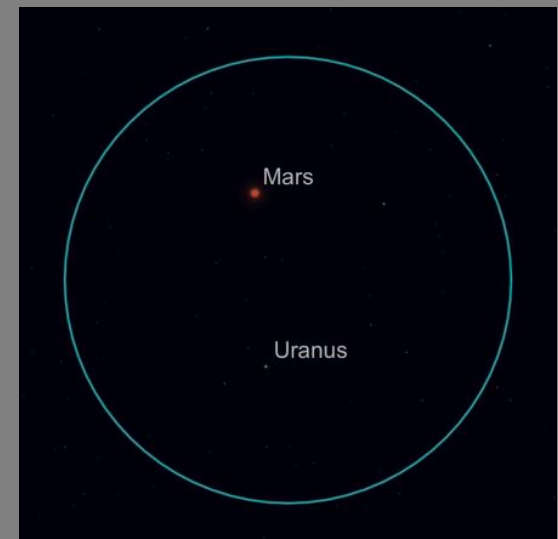
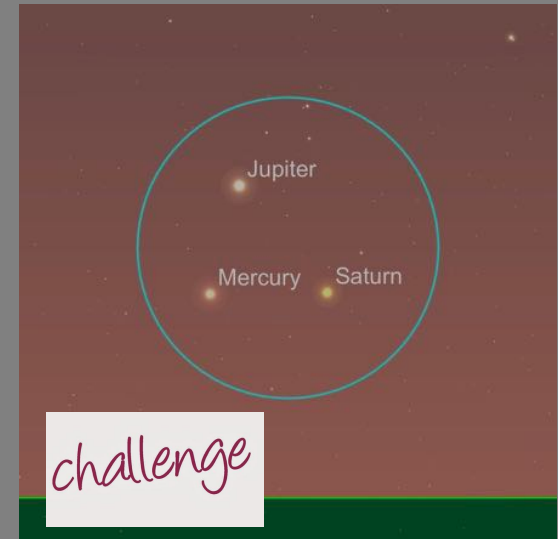
Venus -very low in SE (mag. -4.1)  
-near Moon Jan 11 in dawn twilight  
-headed for superior conjunction in late March

Mars -mag. 0 evening object (Pisces→Aries)  
-in  $5^\circ$  bino field with Uranus on Jan 15-28, closest on the night of Jan. 21

~~Jupiter-Saturn~~

Uranus - in Aries at mag. 5.8

Neptune - in Aquarius at mag. 7.9





## Explore the Universe:

### Winter Constellations

Auriga

Gemini

Taurus

Orion

Canis Major

Canis Minor





# Explore the Universe:

## Winter Stars

*Ranking:*

#1 Sirius (N)

#6 Capella (N)

#7 Rigel (N)

#8 Procyon (N)

#10 Betelgeuse (N)

#13 Aldebaran (N)

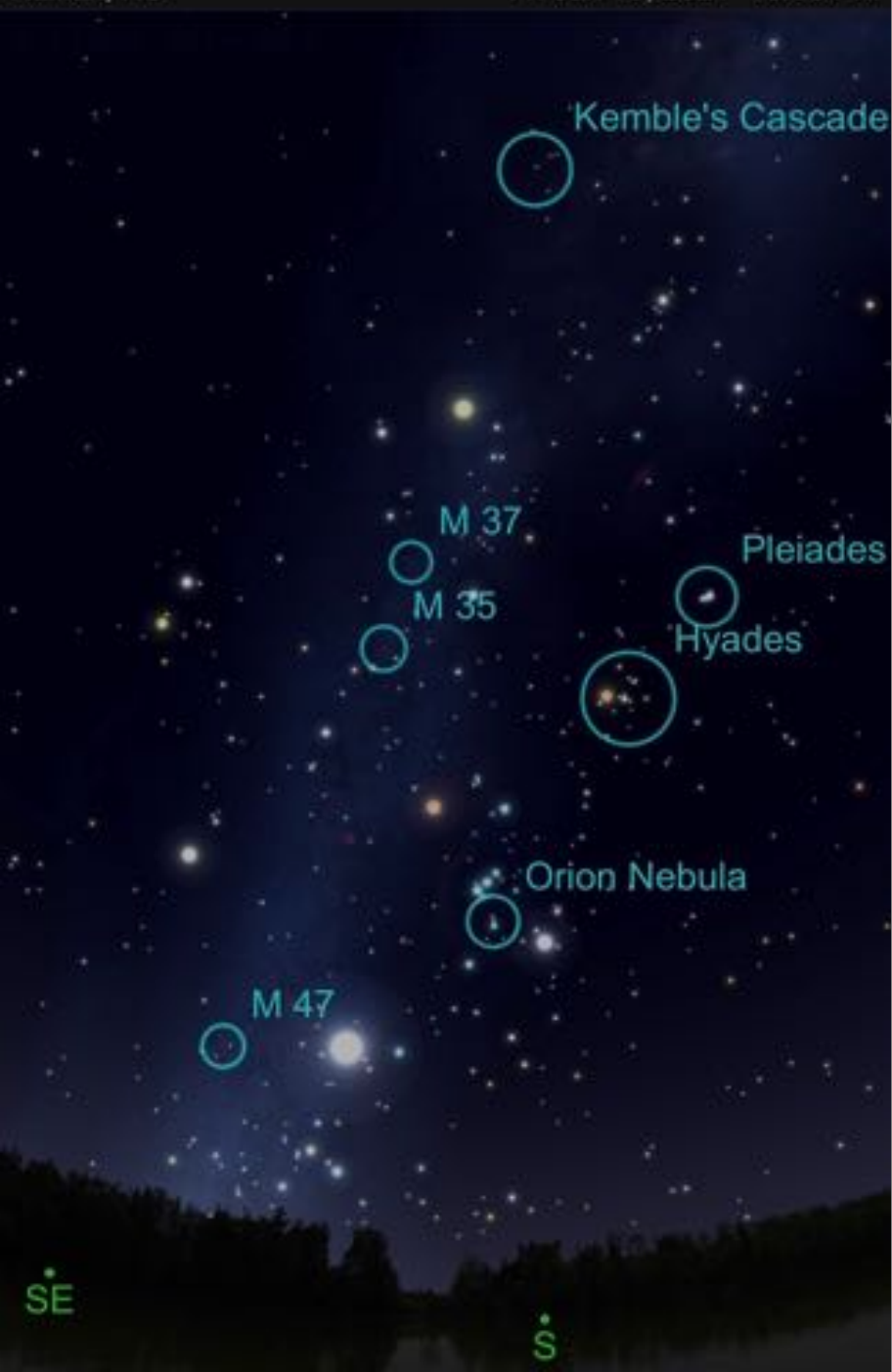
#16 Pollux (N)

#45 Castor

Gomiesa

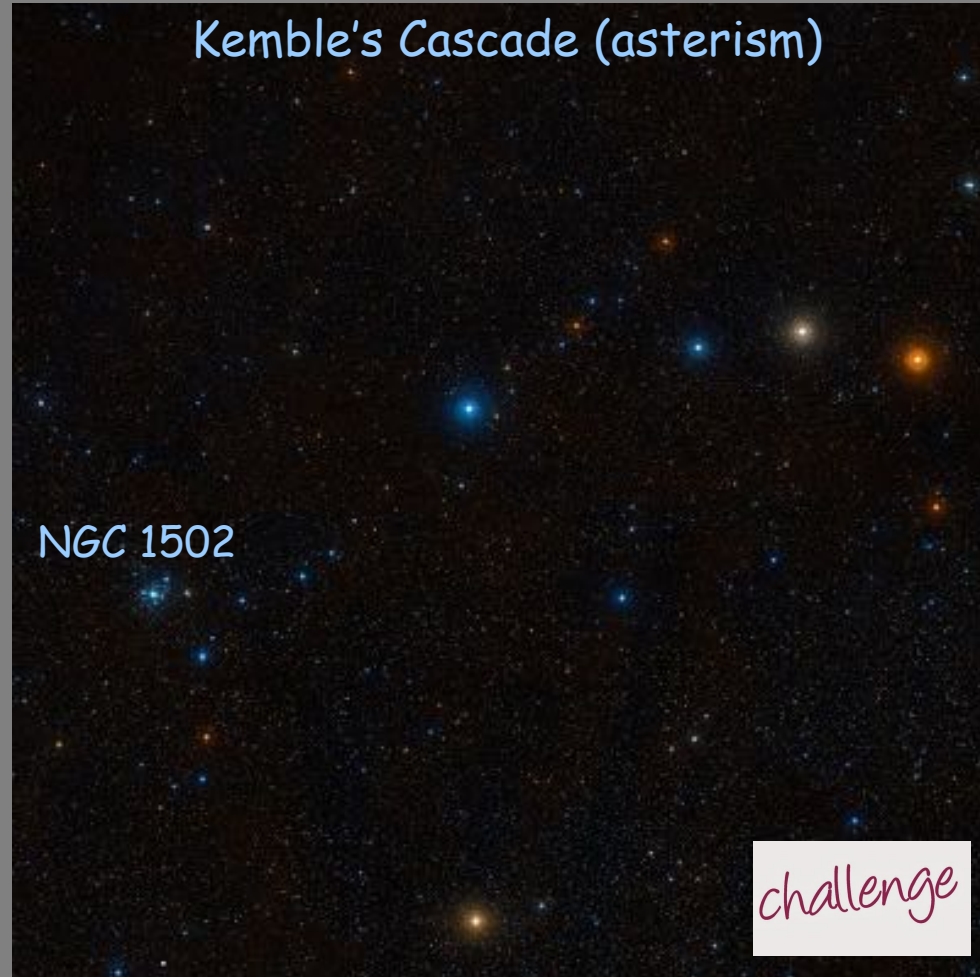
N = Navigation

all good for Syn Scan alignment



# Explore the Universe: Winter Deep-Sky Objects

Kemble's Cascade (asterism)





# Algol (β Persei)

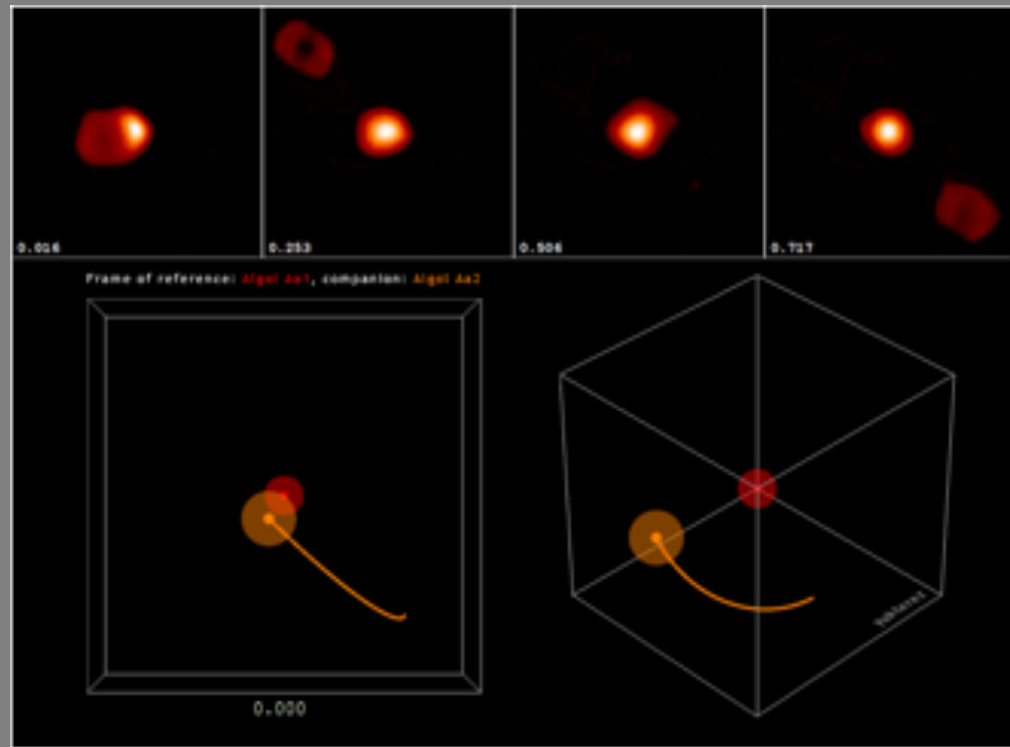
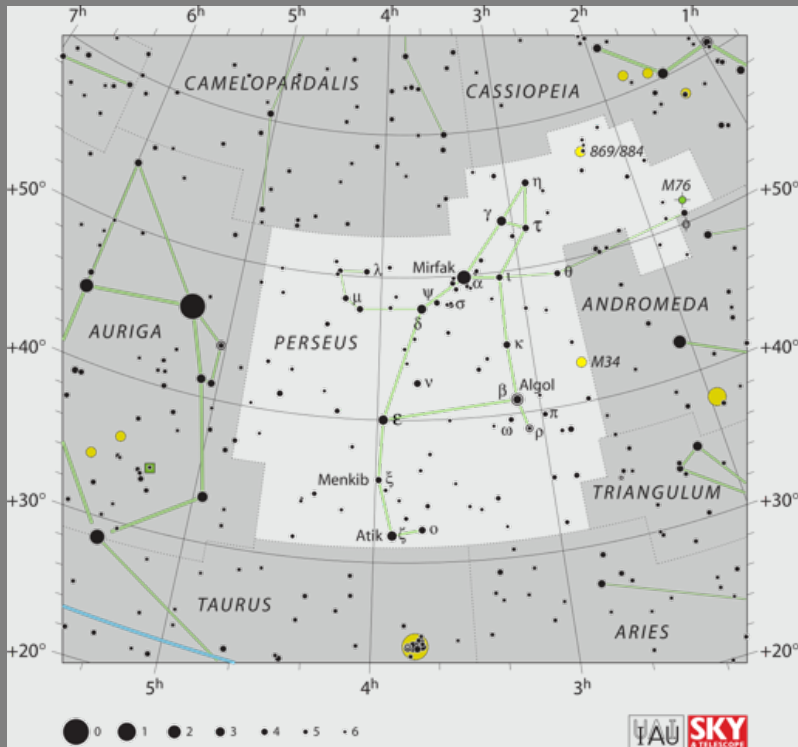
Jan 17/18 fades 8 p.m. – 1 a.m.

Jan 23 brightens 7 p.m. – midnight

entire eclipse lasts ~11.5 h

challenge

observe one of these



Questions?

