

What's Up?

October 1-31, 2021

made with the RASC
Observer's Handbook
and SkySafari®

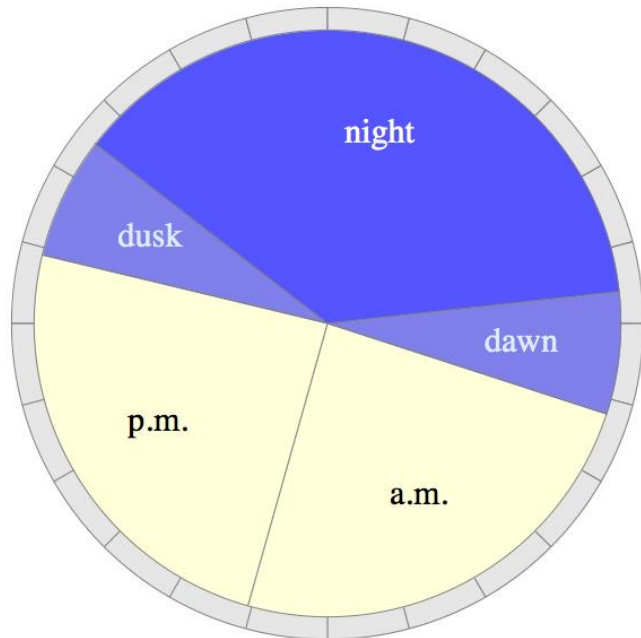
photo: Dave Chapman

The Sun This Month

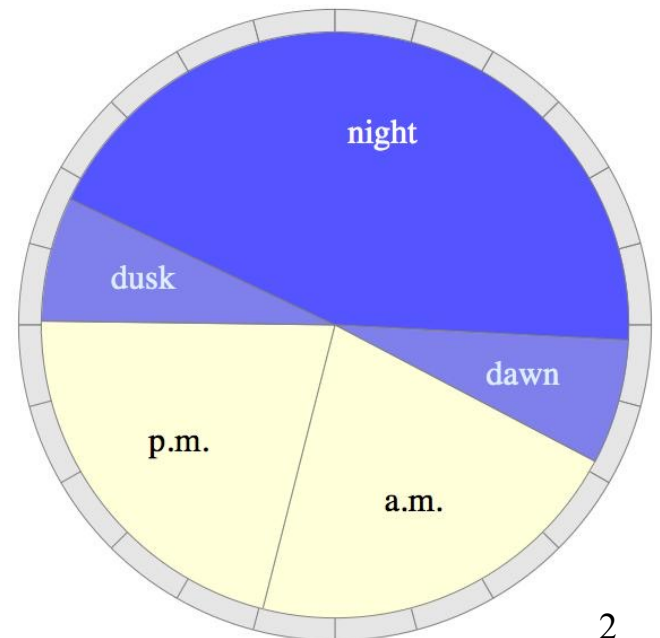
[Today's Solar Activity](#)

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
Oct 1	6:55 p.m.	8:30 p.m.	9.1 h	5:35 a.m.	7:10 a.m.	1:02 p.m.	11.7 h	42°
Oct 31	6:05 p.m.	7:40 p.m.	10.5 h	6:10 a.m.	7:50 a.m.	12:57 p.m.	10.2 h	31°

Halifax Oct 01



Halifax Oct 31



2

[YouTube: RASC Halifax](#)

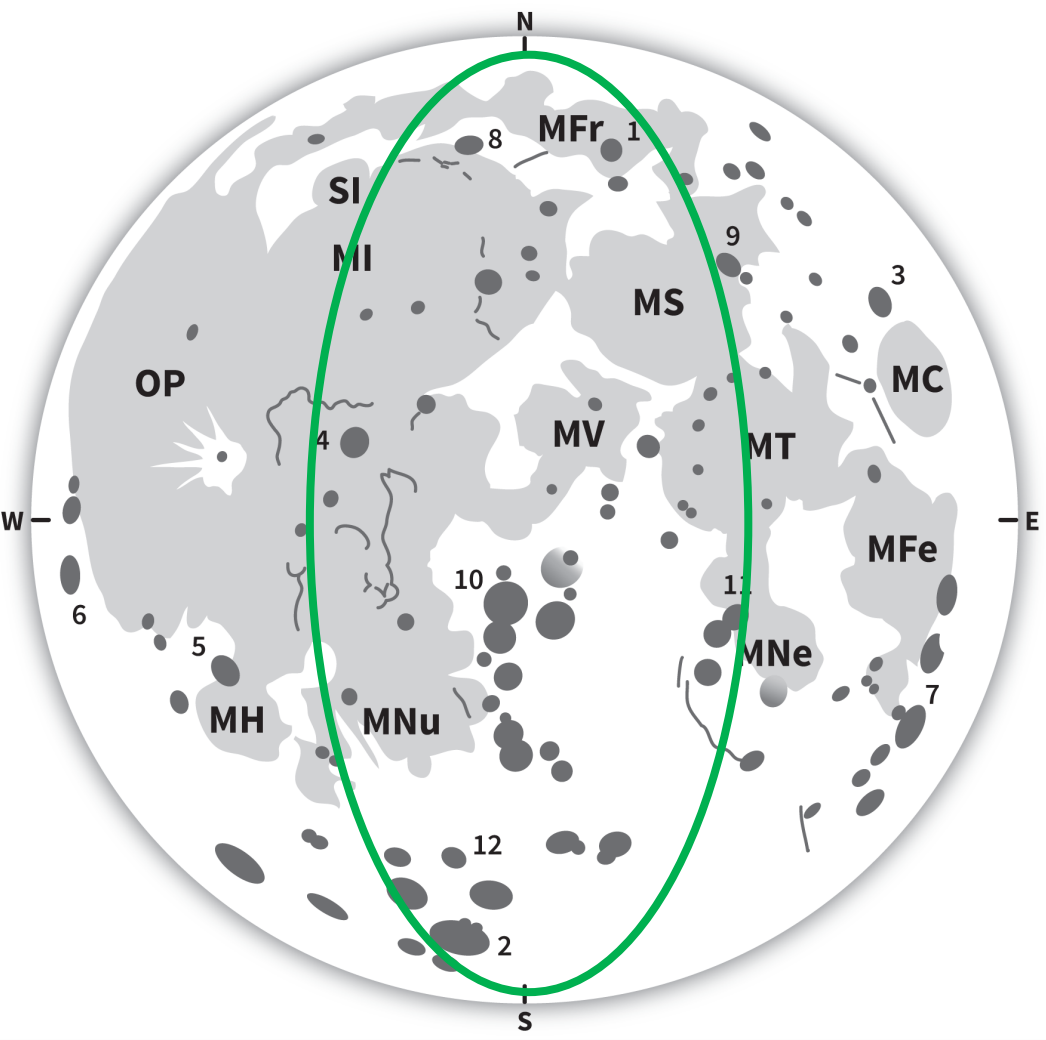
The Moon This Month

Date	Phase	English	Mi'kmaq
Oct 6	<i>New Moon</i>	Animal Fattening	Wikewiku's
Oct 9	Moon & Venus		[we-gay-we-goos]
Oct 12/13	<i>First Quarter</i>		
Oct 13/14	Moon & Saturn		
Oct 14/15	Moon & Jupiter		
Oct 20	<i>Full Moon</i>	Animal Fattening	Wikewiku's
Oct 28	<i>Last Quarter (dawn)</i>		[we-gay-we-goos]

Saturday 16 October

International Observe the Moon Night

<https://moon.nasa.gov/observe-the-moon-night/>



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

October 11-14

The Moon in

Explore the Universe

observe 3 of each in binos

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 This Month

Mercury- too close to Sun in early October

- Greatest Elongation West on October 25 (18°)
- best morning apparition for Northern Hemisphere
- near waning crescent Moon on November 3

challenge

Venus - brilliant, but very low in the western evening sky

- Greatest Elongation East (47°) on Oct. 29 but poorly placed in sky
- Less than 5° below crescent Moon during dusk October 9.

challenge

~~Mars~~ - too close to Sun

Zodiacal Light visible in eastern morning sky before 6 a.m. October 4-18

Jupiter & Saturn

- southern evening sky—past opposition—resuming prograde motion
- Moon passes Oct 13-15

Neptune- in evening sky in Aquarius (mag. 7.8, disk 2.4")

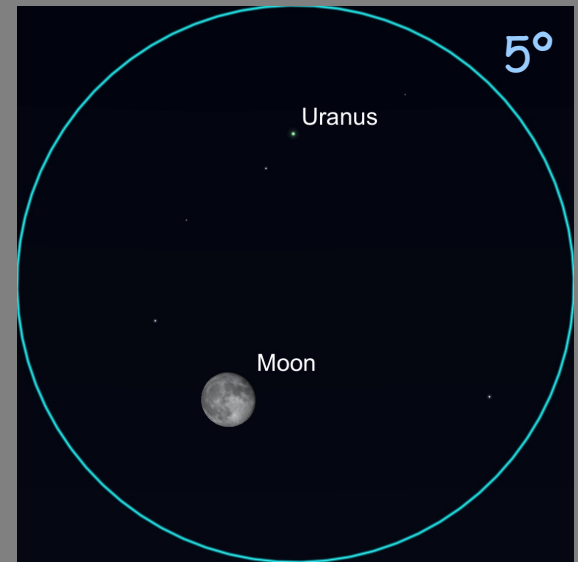
Uranus - 2° above the Moon in the late evening of Oct. 21 (mag. 5.7, disk 3.7")

challenge

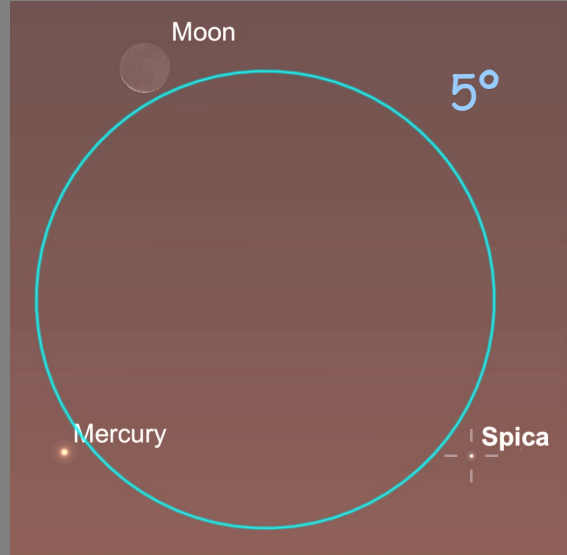
Moon and Planets



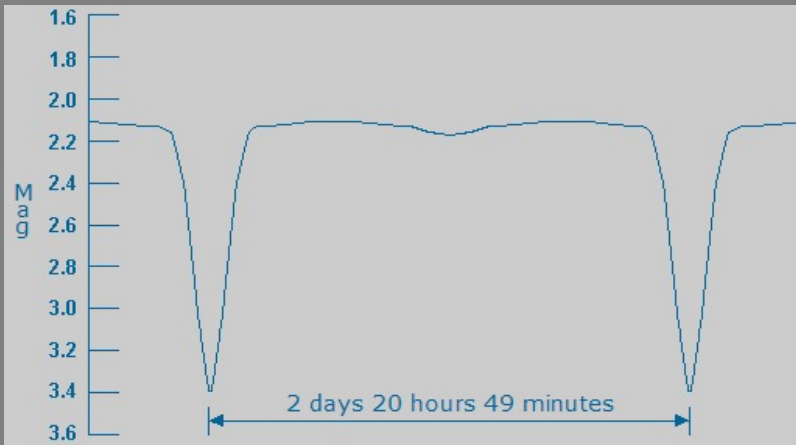
Saturday 9 October
evening twilight



Thursday 21 October
late evening



Wednesday 3 November
morning twilight



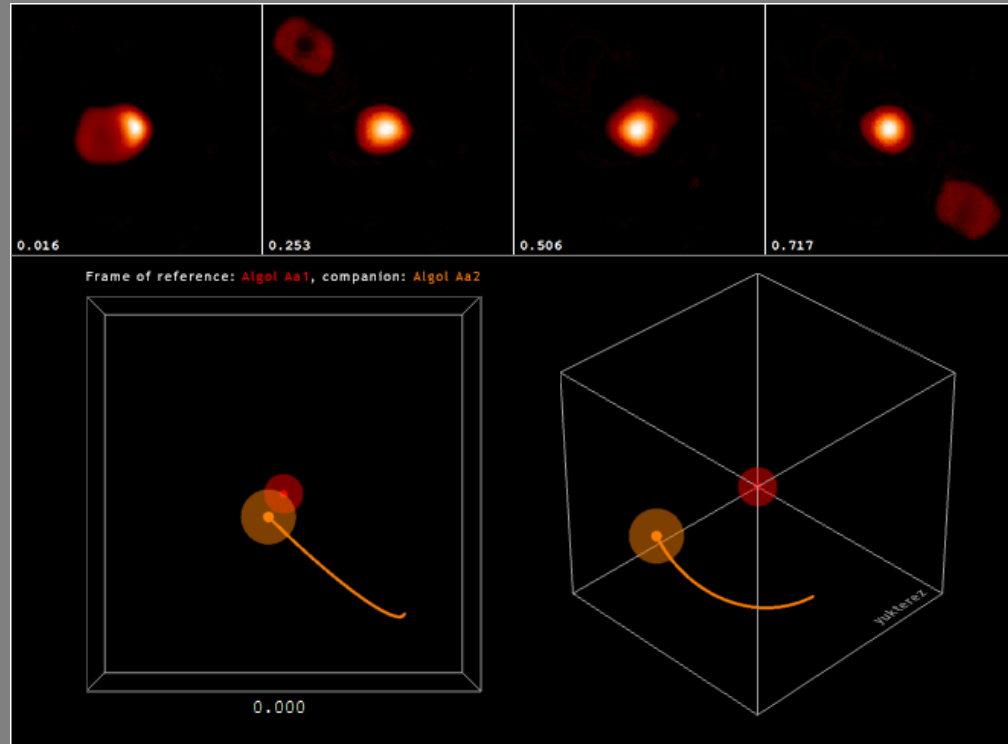
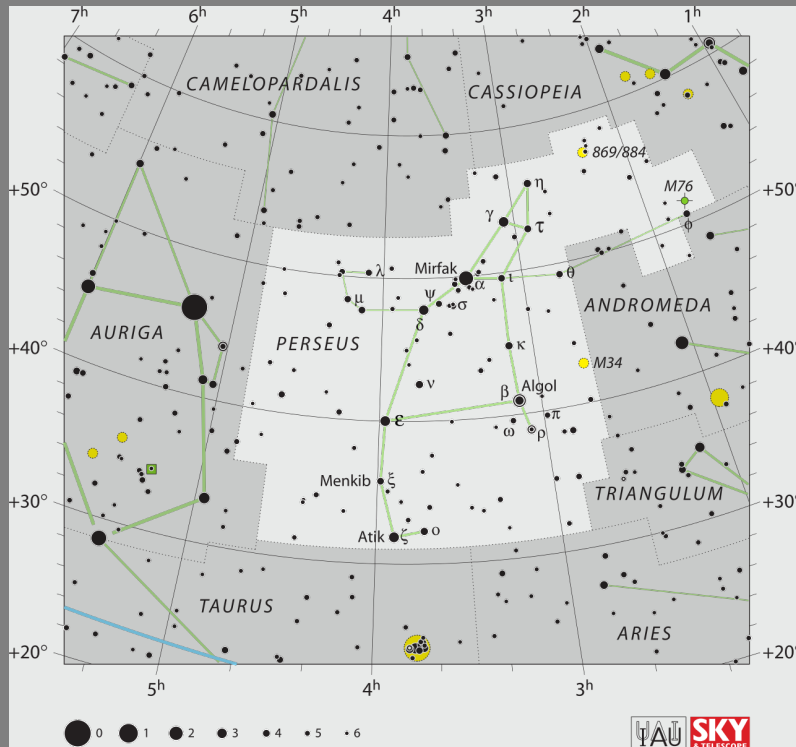
Algol (β Persei)

Oct 5/6 fades 7:20 p.m. - 12:20 a.m.

Oct 8/9 brightens 9:15 - 2:15 a.m.

Oct 11 brightens 6:00 p.m.- 11:00 p.m.

challenge





Explore the Universe:

Autumn Constellations

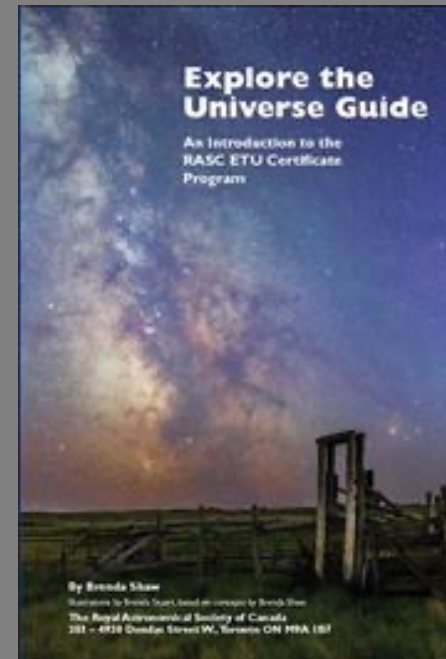
Pegasus

Andromeda

Cassiopeia

Perseus

Aries





Explore the Universe:

Autumn Stars

Ranking:

#35 Mirfak (N)

Hamal (N)

Alpheratz (N)

Algol

Schedar (N)

Markab

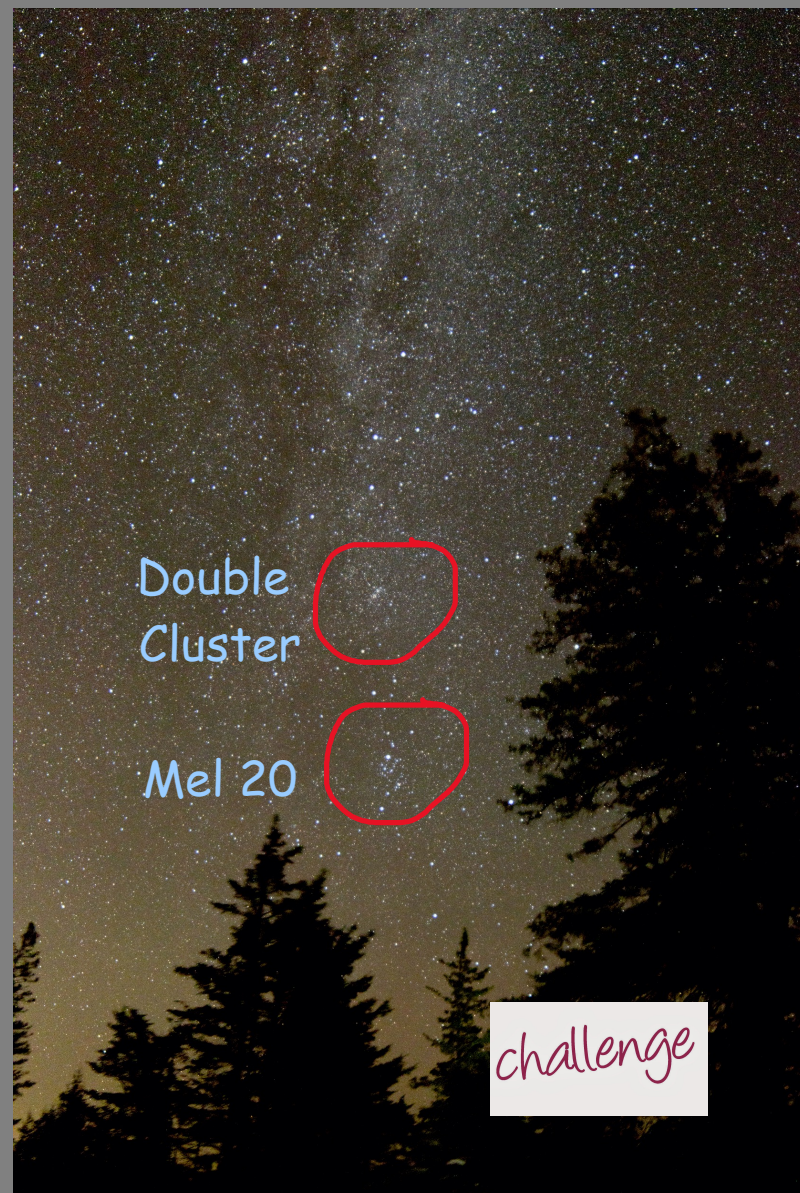
Sheratan

N = Navigation

all good for Syn Scan alignment



Explore the Universe: Autumn Deep-Sky Objects



Double
Cluster

Mel 20

challenge



Explore the Universe: Autumn & Winter Double Stars

16 Cygni (6.0, 6.2, 40")

Delta Cephei (4.2, 6.1, 41")

Theta1 Tauri (3.4, 3.9, 348")



Questions?

photo: Dave Chapman
(Kejimikujik DSP)