



What's Up?
September 1-30, 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
Sep 1	7:50 p.m.	9:34 p.m.	7.3 h	4:52 a.m.	6:37 a.m.	1:13 p.m.	13.2 h	53°
Sep 30	6:55 p.m.	8:32 p.m.	9.0 h	5:34 a.m.	7:11 a.m.	1:04 p.m.	11.7 h	42°

Halifax Sep 01



Autumnal Equinox
4:23 a.m. ADT Sep 22

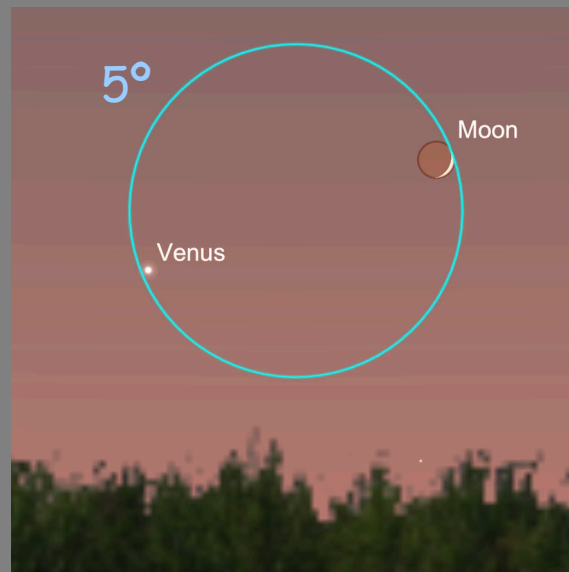
Halifax Sep 30

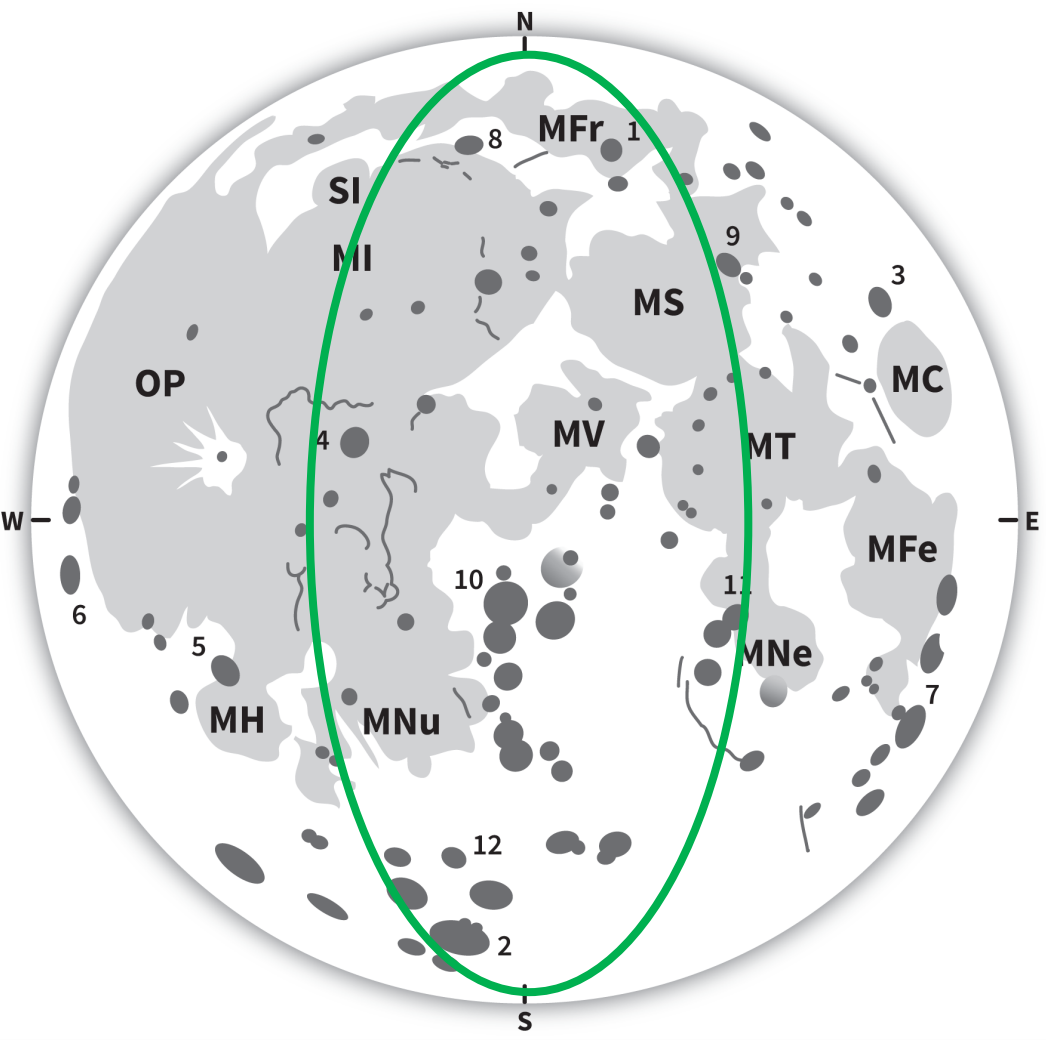


The Moon This Month

Date	Phase	English	Mi'kmaq
Sep 6	<i>New Moon</i>	Mate Calling	Wikumkewiku's
Sep 9	Crescent Moon & Venus in west		
Sep 13	<i>First Quarter</i>		
Sep 16	Gibbous Moon & Saturn		
Sep 17	Gibbous Moon & Jupiter		
Sep 20	<i>Full Moon</i>	Mate Calling	Wikumkewiku's
Sep 29	<i>Last Quarter</i>		

September 9
8:00 p.m. ADT





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

September 12-15

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 - Greatest Eastern Elongation on September 14
- very low, very difficult

Venus - low & brilliant in the western evening sky
- close to Spica ~September 4-7
- near crescent Moon September 9 *challenge*

Mars - too close to Sun
- next opposition December 2022

Zodiacal Light visible in eastern morning sky before 5 a.m. September 5-19

Pallas - Opposition in Pisces on September 11 (mag. 8.7)

Jupiter & Saturn
- southern evening sky in evening—well places to observe (a bit low)
- close to Moon September 16 & 17

Neptune- Opposition in Aquarius on September 14 (mag. 7.8, disk 2.4")

Uranus - rising low in the east in late evening



Explore the Universe:

Autumn Constellations

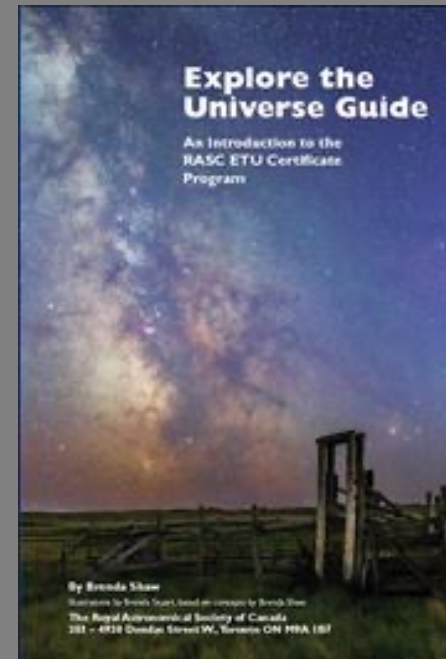
Pegasus

Andromeda

Cassiopeia

Perseus

Aries





Explore the Universe:

Autumn Stars

Ranking:

#35 Mirfak (N)

Hamal (N)

Alpheratz (N)

Algor

Schedar (N)

Markab

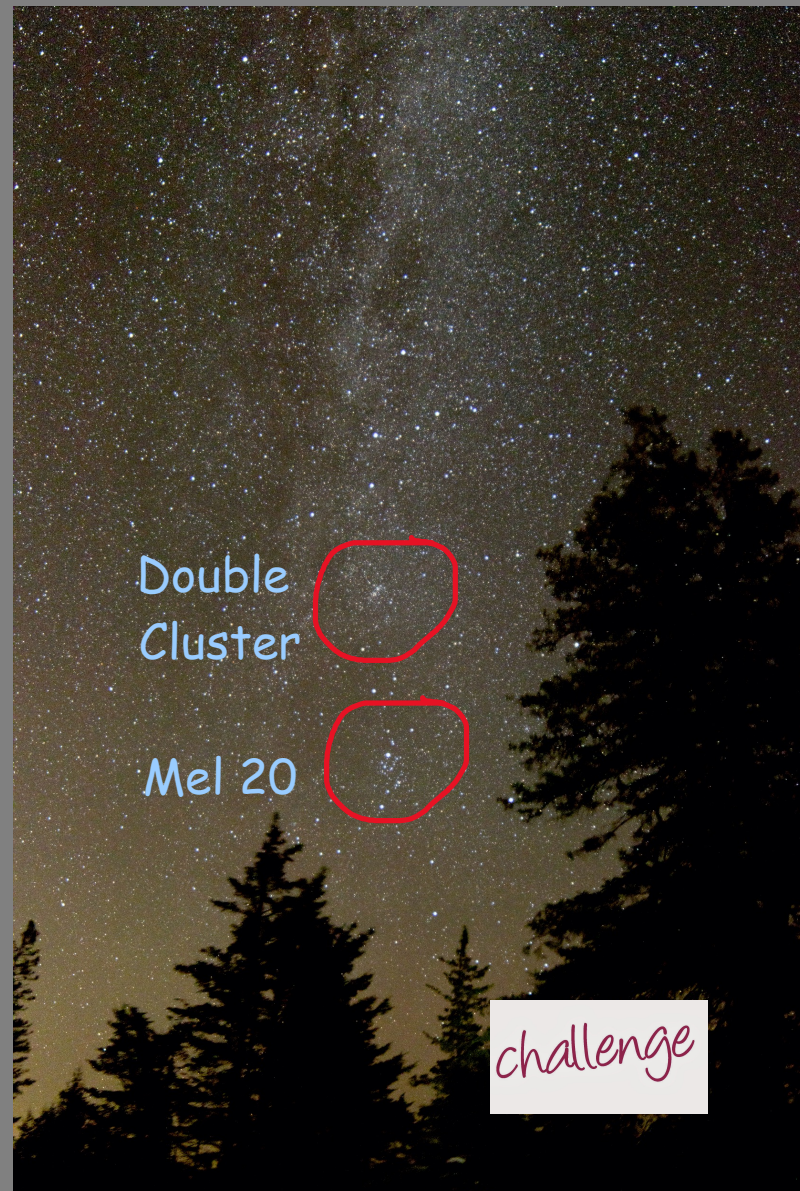
Sheratan

N = Navigation

all good for Syn Scan alignment



Explore the Universe: Autumn Deep-Sky Objects



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 (Scutum Star Cloud)