

What's Up?

September 1-30, 2020

made with the RASC Observer's Handbook and SkySafari®

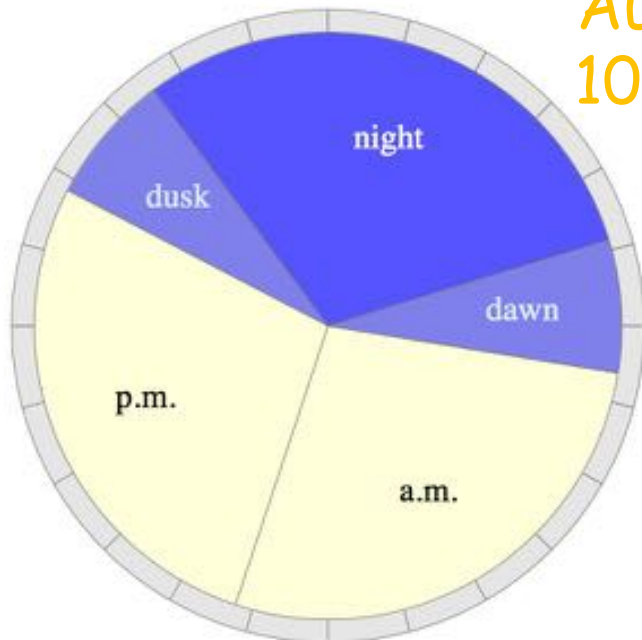
photo: Dave Chapman

The Sun This Month

[Today's Solar Activity](#)

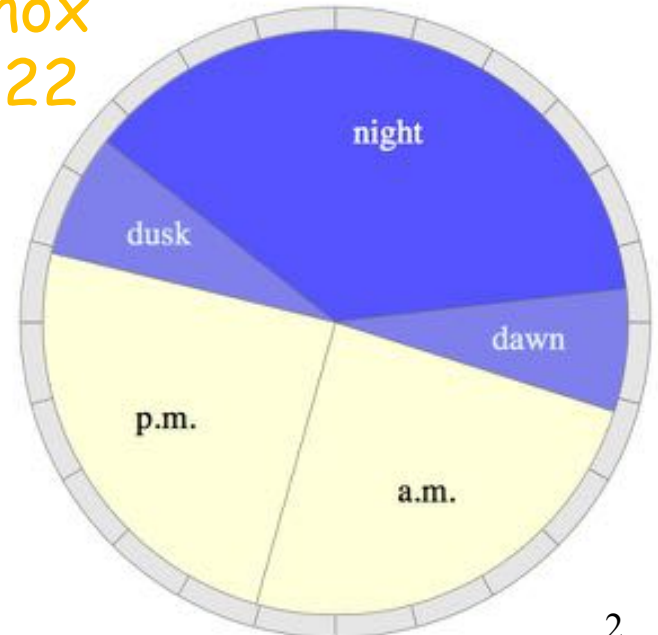
Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
Sep 1	7:50 p.m.	9:34 p.m.	7.3 h	4:52 a.m.	6:37 a.m.	1:14 p.m.	13.2 h	53°
Sep 30	6:55 p.m.	8:32 p.m.	9.0 h	5:34 a.m.	7:11 a.m.	1:04 p.m.	11.7 h	42°

Halifax Sep 01



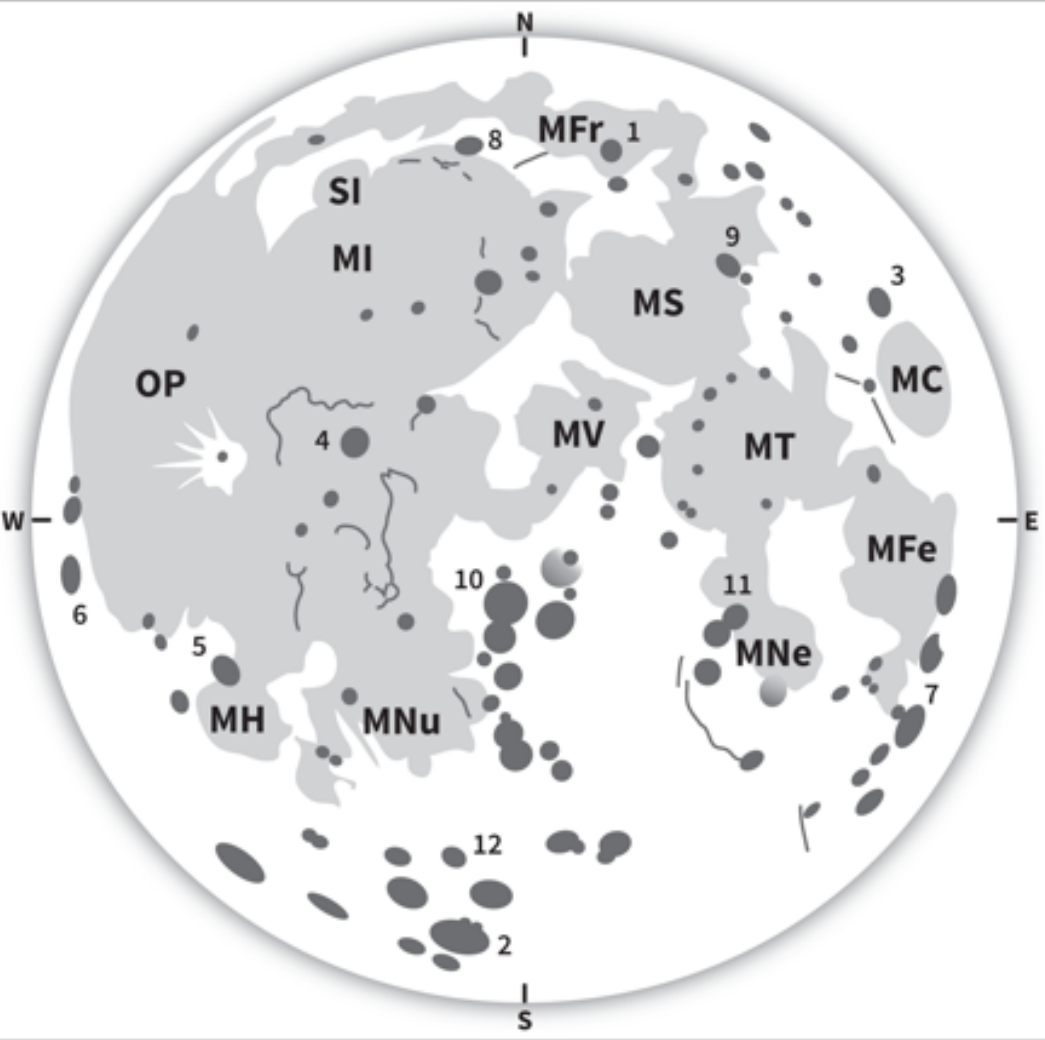
Autumnal Equinox
10:31 a.m. Sep 22

Halifax Sep 30



The Moon This Month

Date	Phase	English	Mi'kmaq
Sep 1/2	<i>Full Moon</i>	Berry Ripening	<u>Kisikewiku's</u>
Sep 5/6	Moon & Mars		
Sep 6/7	Moon & Uranus		
Sep 10	<i>Last Quarter</i>		
Sep 14	Moon & Venus		
Sep 17	<i>New Moon</i> (large tides after)	Mate Calling	<u>Wikumkewiku's</u>
Sep 23	<i>First Quarter</i>		
Sep 24	Moon & Jupiter		
Sep 25	Moon & Saturn		
Sep 29	Moon & Neptune		
Oct 1	<i>Full Moon</i>	Mate Calling	<u>Wikumkewiku's</u>
Oct 1/2	Moon & Mars		



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

5. Gassendi

10. Ptolomaeus

6. Grimaldi

11. Theophilus

7. Petavius

12. Tycho

8. Plato

9. Posidonius

challenge

The Moon in

Explore the Universe

observe 3 of each in binos

The Planets This Month

Mercury - Greatest Eastern Elongation on October 1
- very low, difficult

Venus - high & brilliant in the eastern morning sky
- embedded in morning Zodiacal Light after September 15
- near Regulus October 3

challenge

Mars - HERE COMES MARS!
- mag. -1.8 to -2.3 this month (almost as bright as Jupiter)
- disk size 19" to 23" this month
- closest approach on October 6

challenge

Jupiter & Saturn

- Southern evening sky—transit in twilight
- double shadow transit on Jupiter ~4 a.m. September 14
- close to Moon September 24 & 25
- heading towards close conjunction on December 21

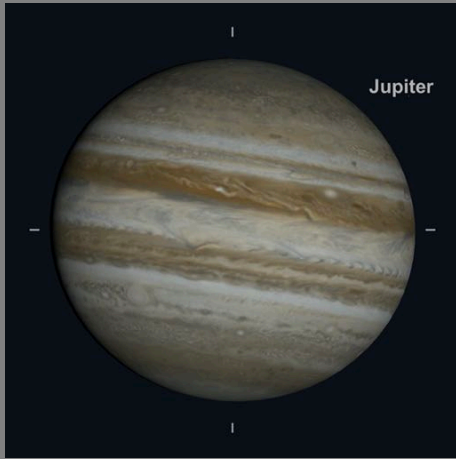
Neptune - Opposition on September 11 (mag. 7.8, disk 2.4")

challenge

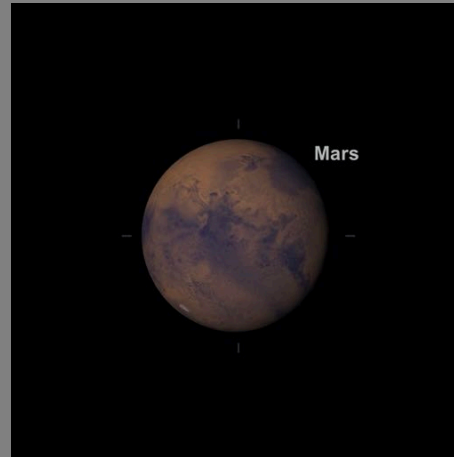
Uranus - Opposition October 31

Here comes Mars!

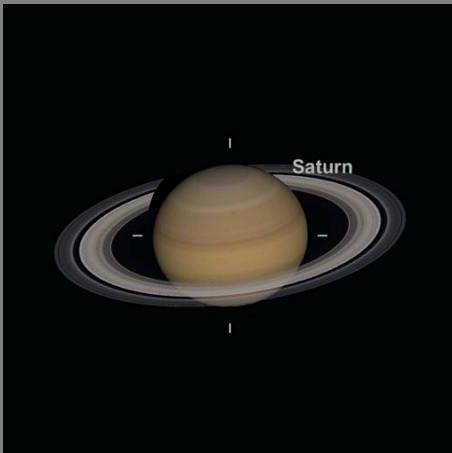
44" (seconds of arc)



Sept. 17 21"



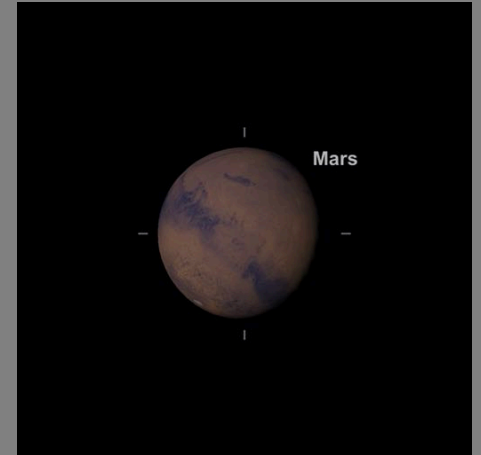
disk 17" rings 39"



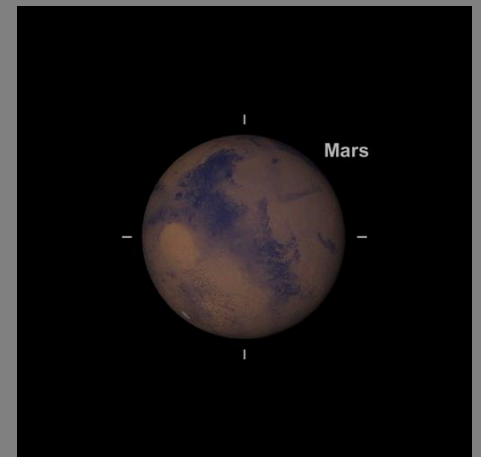
Murray Paulson
p. 217 2020 Observer's Handbook

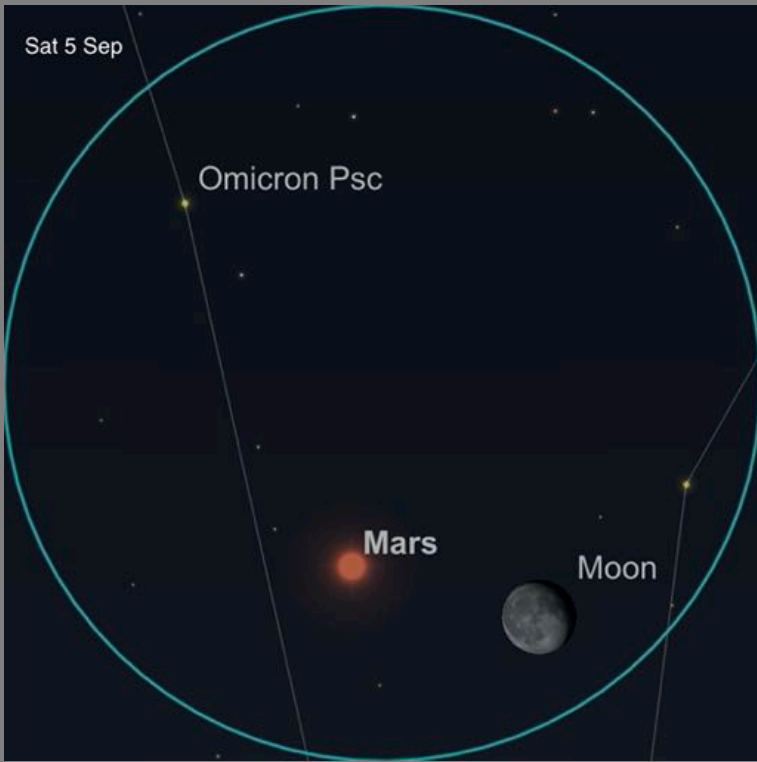
challenge

Sept. 1 19"



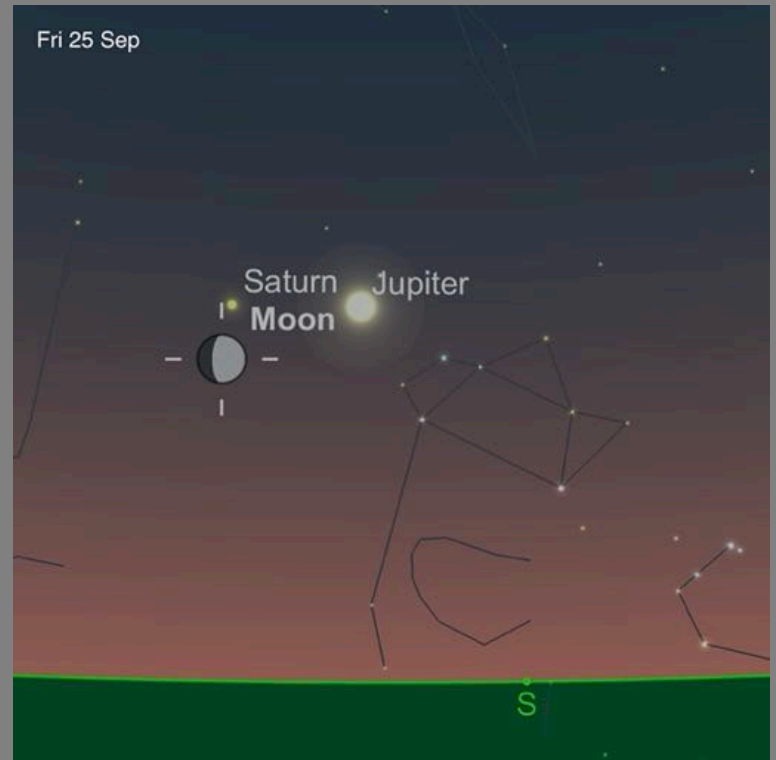
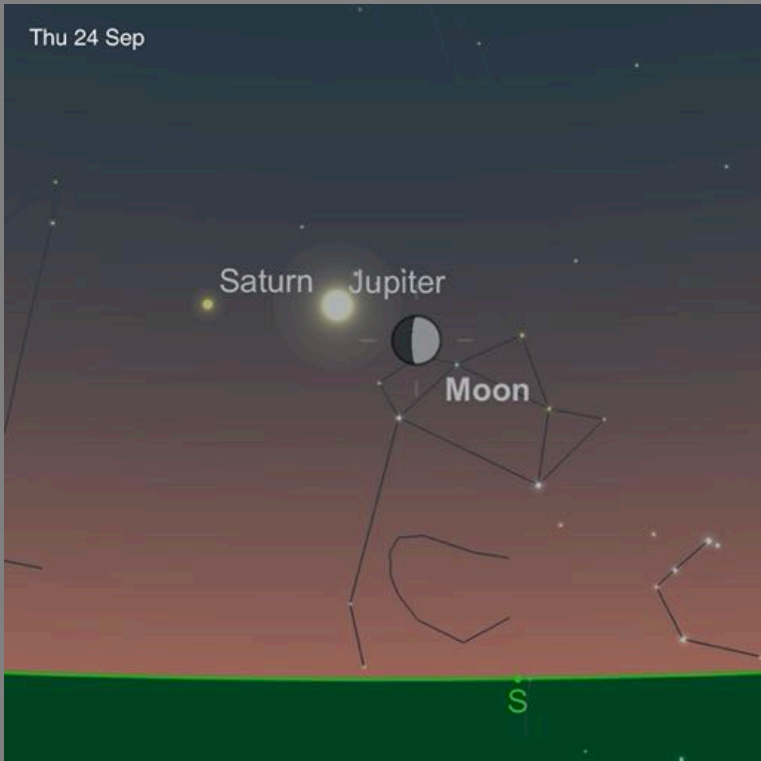
Oct. 6 23"
closest approach





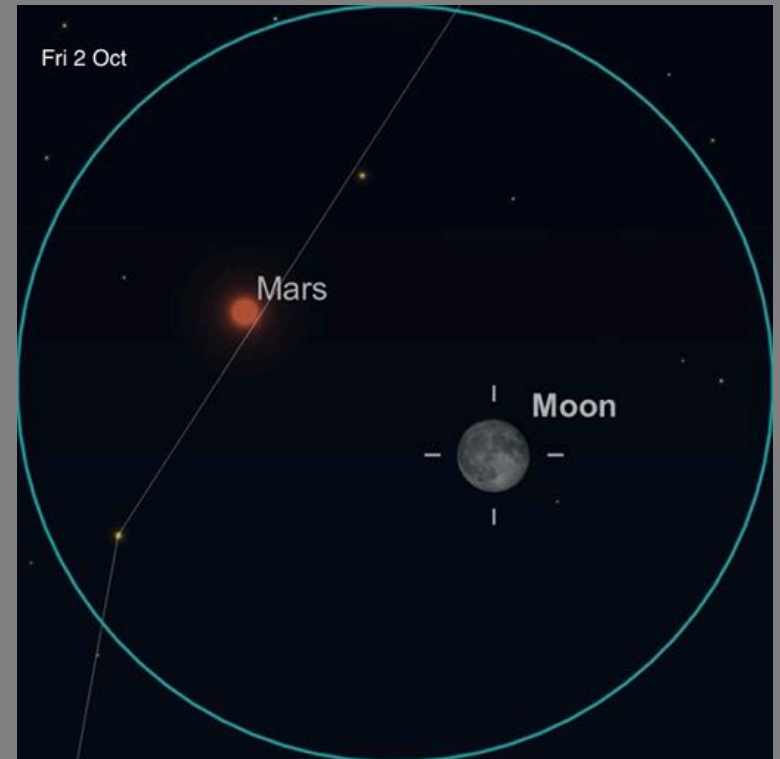
challenge







challenge





Explore the Universe: Summer Constellations





Explore the Universe:

Summer Stars

Ranking:

#5 Vega (N)

#12 Altair (N)

#15 Antares (N)

#20 Deneb (N)

- Rasalgethi

- Algedi

- Dabih

-Nunki



Explore the Universe: Summer Deep-Sky 1

The Coathanger (Col 399)
1/3 the way from Altair to Vega

(view in binoculars in dark sky)

challenge





Explore the Universe: Summer Deep-Sky 1

The Coathanger (Col 399)
1/3 the way from Altair to Vega

(view in binoculars in dark sky)

challenge





Explore the Universe:
Summer Deep-Sky 2
Lagoon Nebula (M8)
(view in binoculars in dark sky)

challenge



10x50



Explore the Universe: Summer Double Stars

Omicron 1 Cygni
triple star

challenge



Questions?

photo: Dave Chapman (Scutum Star Cloud)