

# What's Up?

June 1-30, 2020 (and then some)



made with the RASC Observer's Handbook and SkySafari®

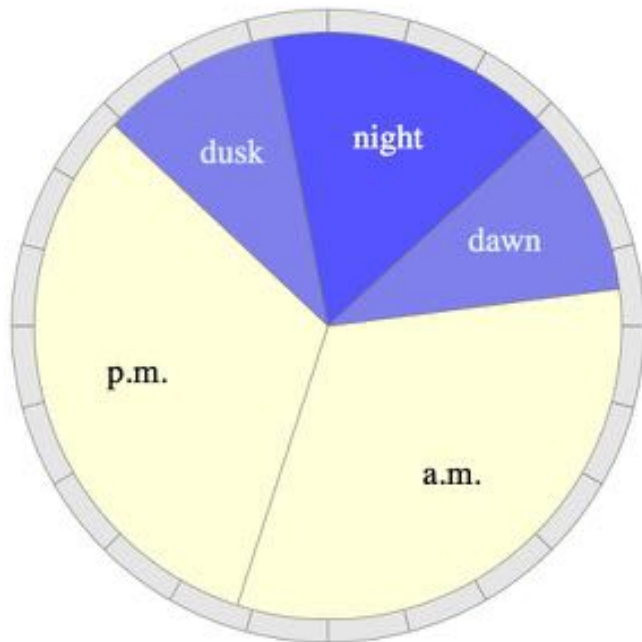
photo: Dave Chapman

# The Sun This Month

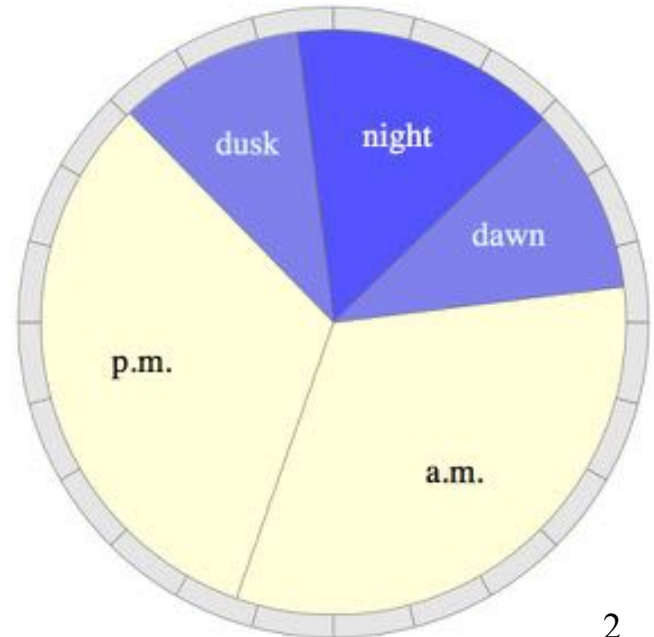
[Today's Solar Activity](#)

| Date    | Sunset    | Dusk End   | Darkness | Dawn Start | Sunrise   | “Noon”    | Sunlight | Max Altitude |
|---------|-----------|------------|----------|------------|-----------|-----------|----------|--------------|
| June 1  | 8:53 p.m. | 11:15 p.m. | 3.9 h    | 3:10 a.m.  | 5:31 a.m. | 1:12 p.m. | 15.4 h   | 67°          |
| June 30 | 9:03 p.m. | 11:31 p.m. | 3.6 h    | 3:04 a.m.  | 5:32 a.m. | 1:18 p.m. | 15.5 h   | 68°          |

Halifax Jun 01

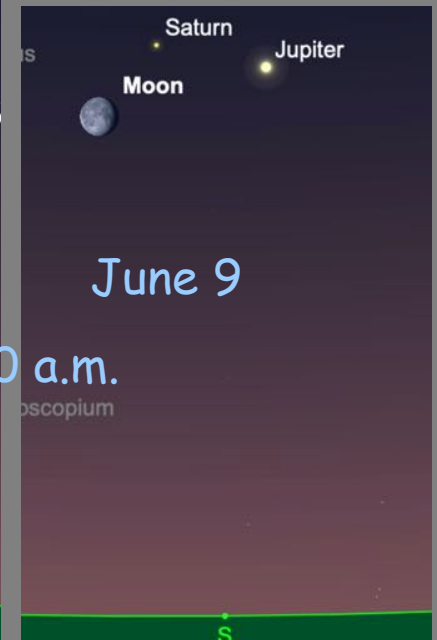
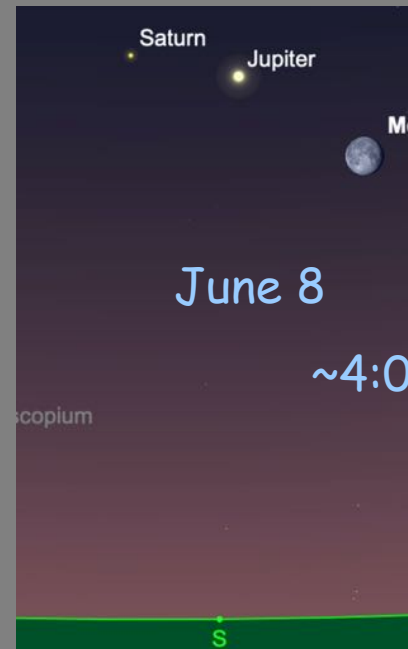
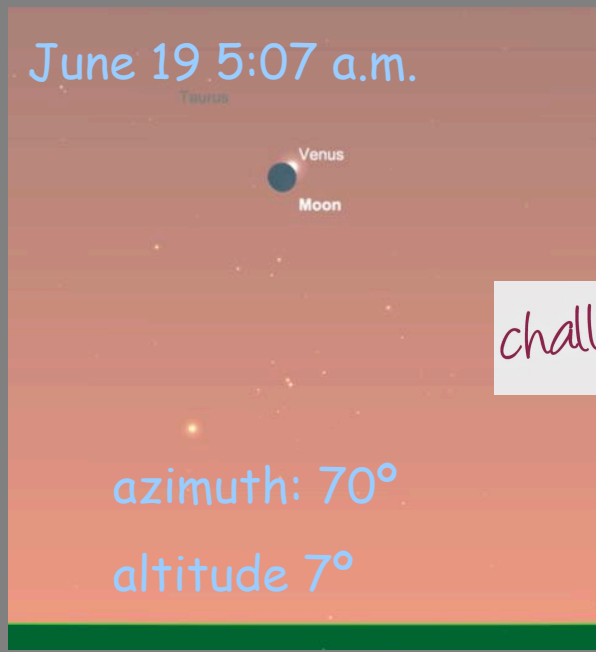


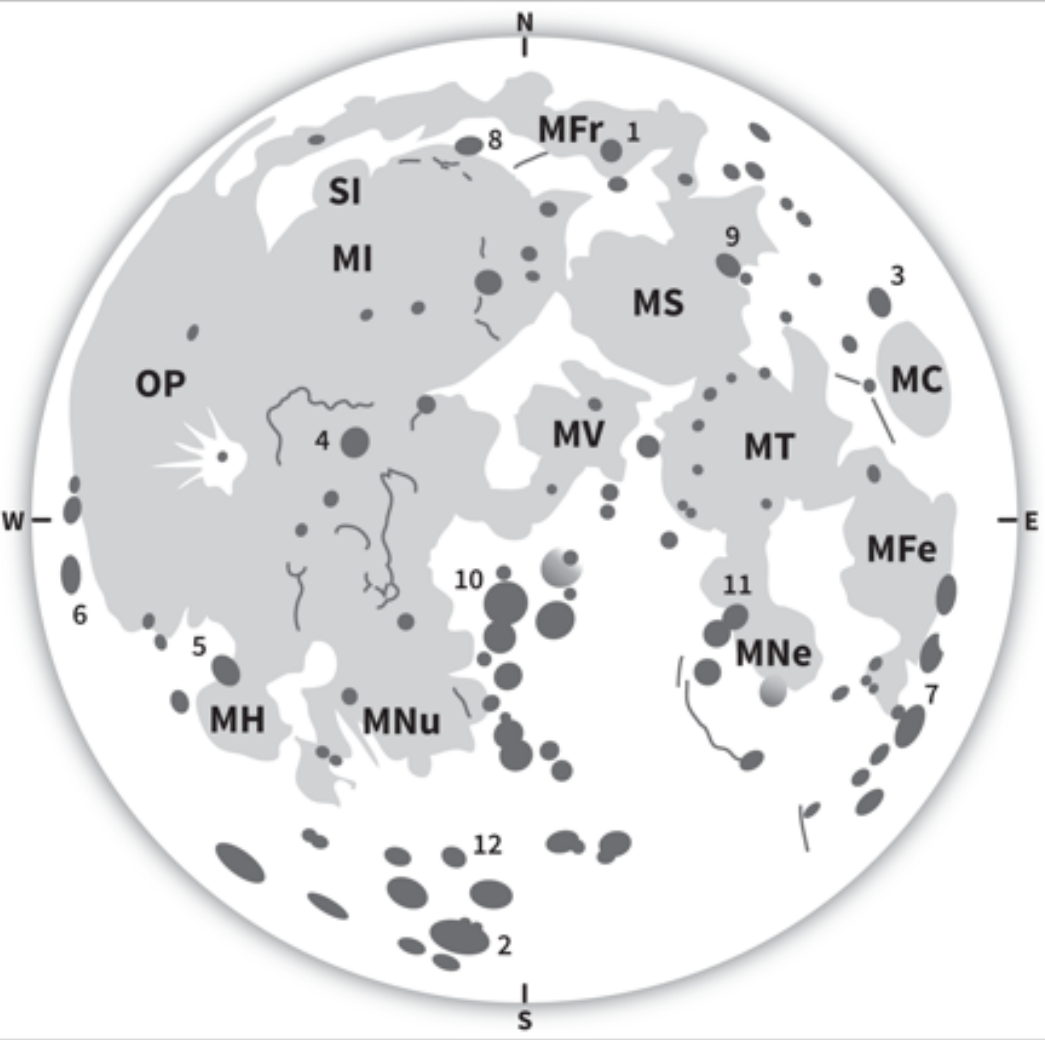
Halifax Jun 30



# The Moon This Month

| Date     | Phase                             | English              | Mi'kmaq                          |
|----------|-----------------------------------|----------------------|----------------------------------|
| June 5   | Full Moon                         | Trees Fully Leafed   | <a href="#"><u>Nipniku's</u></a> |
| June 8/9 | Moon, Jupiter, Saturn before dawn |                      |                                  |
| June 13  | Last Quarter                      |                      |                                  |
| June 19  | Occultation of Venus by Moon      |                      |                                  |
| June 21  | New Moon (annular eclipse)        | Trees Fully Leafed 2 | Nipniku's                        |
| June 28  | First Quarter                     |                      |                                  |





## 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 |
| 2. Clavius     | 6. Grimaldi   | 11. Theophilus |
| 3. Cleomedes   | 7. Petavius   | 12. Tycho      |
| 4. Copernicus  | 8. Plato      |                |
|                | 9. Posidonius |                |

challenge

## The Moon in

*Explore the Universe*

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

# The Planets This Month

Mercury - Greatest Eastern Elongation June 4  
- best apparition in 2020 in evening sky

Venus - close inferior conjunction June 3  
- (transit 8 years ago)  
- low in the eastern morning sky after that  
- lunar occultation reappearance in June 19 twilight

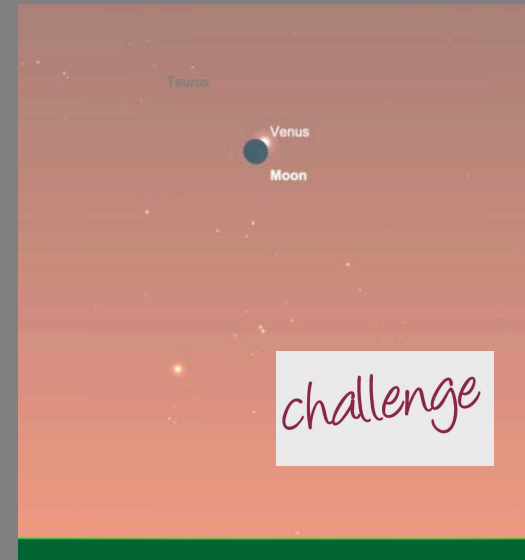
Mars - mag. -0.5 morning object by end of month  
- disk size exceeds 11" by end of month  
- time to start observing!  
- near Moon on June 13

challenge

Jupiter & Saturn  
- dawn sky—transit around 3:30  
- close to Moon June 8&9

Neptune- near Mars and the Moon June 13

Uranus





## 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*



# Some Celestial Highlights in July and August

July

- 5<sup>th</sup> Full Moon "Trees Fully Leafed 2"
- 10<sup>th</sup> Venus Greatest Illuminated Extent mag. -4.7 in morning sky
- 14<sup>th</sup> Jupiter at opposition mag. -2.8, disk 48 arcseconds
- 20<sup>th</sup> New Moon, Saturn at opposition mag. +0.1 rings 43"

August

- 3<sup>rd</sup> Full Moon "Birds Shedding Feathers"
- 9<sup>th</sup> Mars close to Moon
- 12<sup>th</sup> Perseid meteor shower (Last Quarter Moon)
- 13<sup>th</sup> Venus Greatest Elongation West (in morning sky)
- 15<sup>th</sup> double satellite transit on Jupiter
- 19<sup>th</sup> New Moon
- 22<sup>nd</sup> double satellite transit Jupiter
- 28<sup>th</sup> dwarf planet Ceres at opposition in Aquarius mag. 7.7

Check: RASC Observer's Handbook  
SkyNews magazine  
<https://skynews.ca/>



Questions?

photo: Dave Chapman (Scutum Star Cloud)