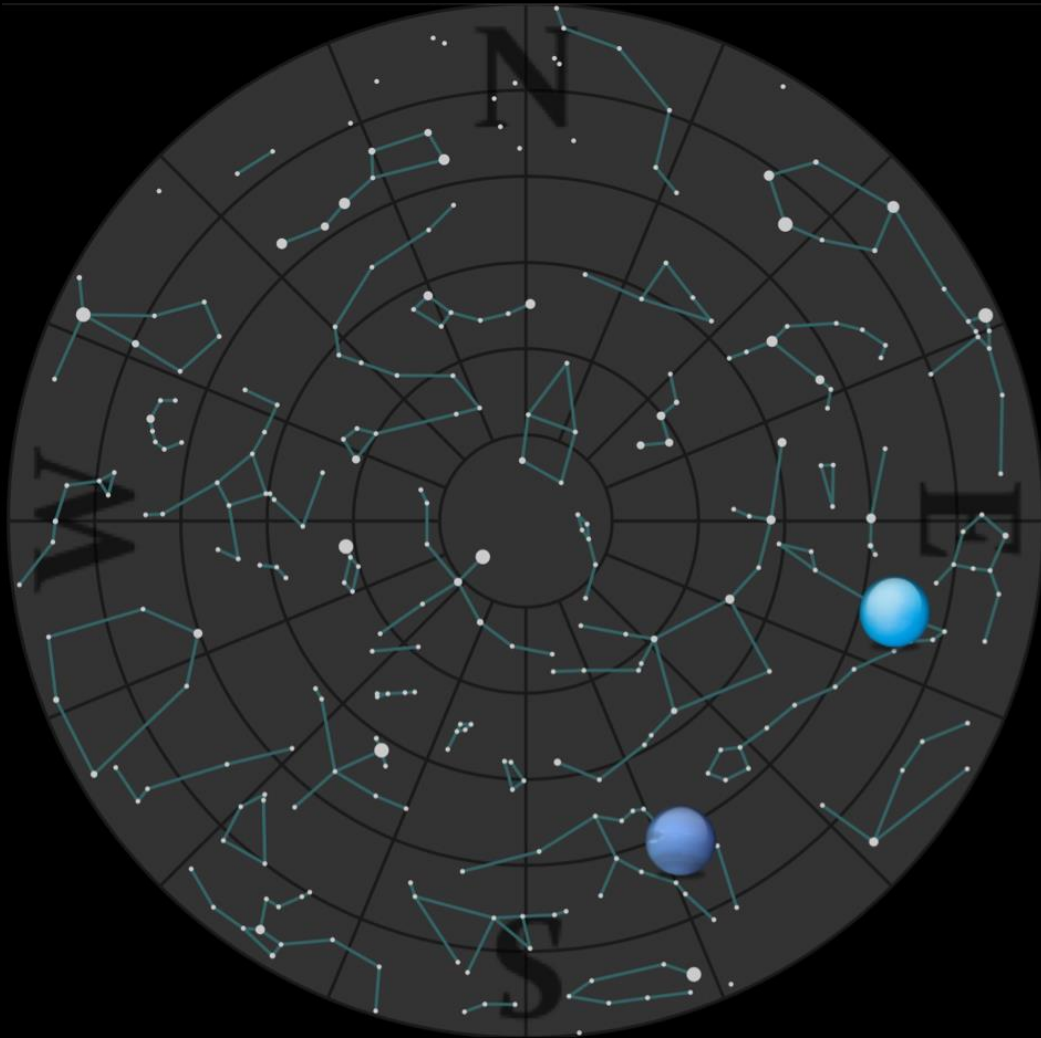


# What's Up?

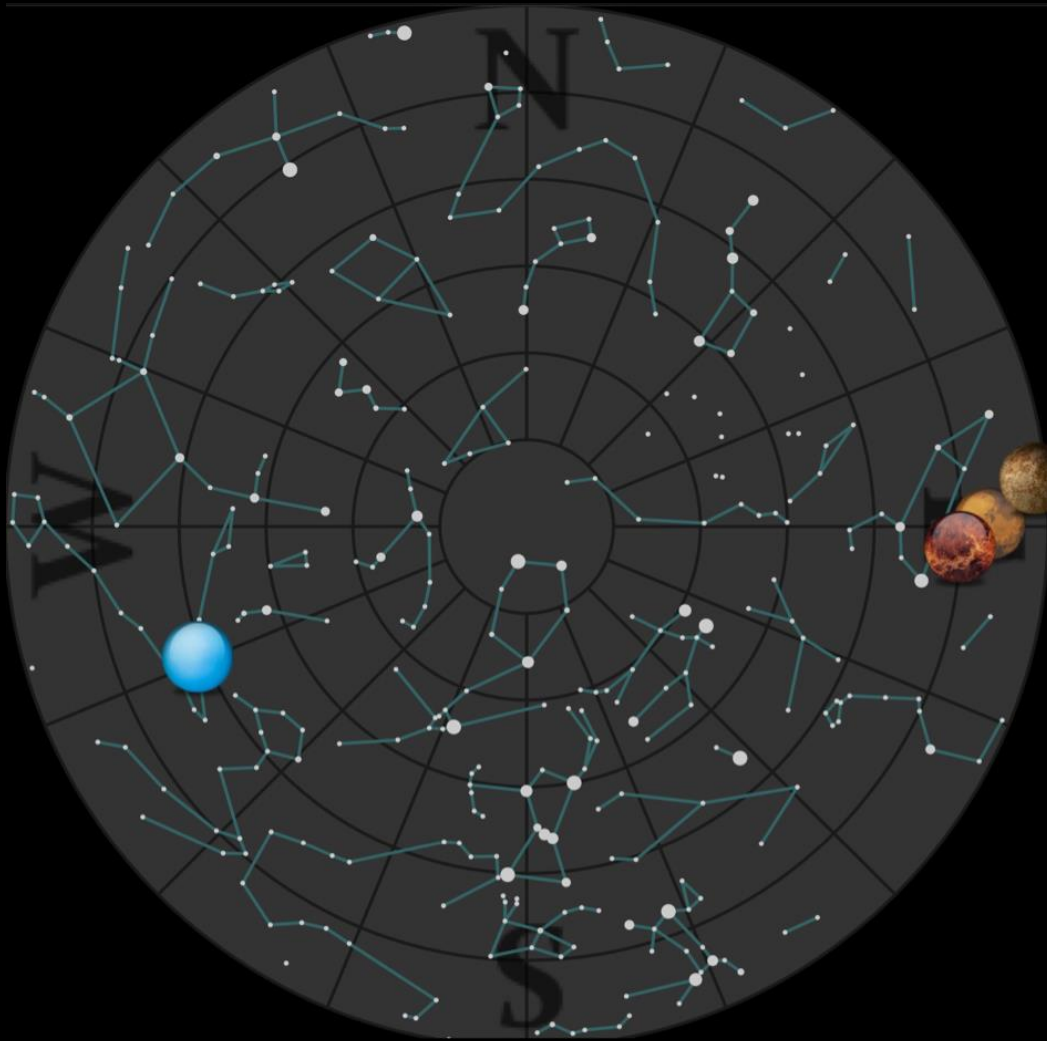
2017 September 25 to October 23

Bill Barton, FRAS

•The Sky 22:00  
Tonight



•The Sky 06:00  
Tomorrow Morning



# Inner Solar System

- Sun
  - Declination decreasing (equinox on September 22), in Virgo
- Mercury
  - In the morning sky at the beginning of his period, in Leo moving to Virgo
  - Superior conjunction on October 05 (far side of Sun)
  - Then in evening sky
- Venus
  - In morning sky, in Leo moving to Virgo
  - Phase and elongation decreasing

# Earth

- Moon
  - First Quarter, September 28
  - Full, October 5 (Harvest Moon)
  - Last Quarter, October 12
  - New, October 19
- Eclipses
  - None this period
- Meteors
  - Orionids, October 16-30, ZHR 25
- Asteroid 2012 TC<sub>4</sub>
  - Should pass 0.034 - 1.127 Lunar Distance from Earth on October 12. Diameter 10 - 30m.

# Outer Solar System

- Mars
  - Conjunction with the Sun (far side) was on July 27
  - In the morning sky moving away from the Sun, in Leo moving to Virgo
  - Rising two hours before the Sun
- Jupiter
  - In the evening sky, setting one hour after the Sun, in Virgo
  - Conjunction with the Sun (far side) on October 26
- Saturn
  - Setting three hours after Sun set, in Ophiuchus
  - Opposition was on June 15
  - Conjunction with the Sun (far side) on December 21
- Uranus
  - Opposition is on October 19 in Pisces, mag +5.7, in Pisces

# Occultations

- One event this period
  - Occulting body: Neptune's moon Triton (mag. +13.5)
  - Star occulted: UCAC4-410-143659 (mag. +12.7)  
RA 22<sup>h</sup> 54<sup>m</sup> 18<sup>s</sup>, Dec -08<sup>o</sup> 00' 08" (Aquarius)
  - Time: Thursday 2017 October 05 23:48UT ± 5 - 10 minutes
  - Magnitude Drop: 1.4
  - Duration: 161 seconds
  - Sun elongation: 149<sup>o</sup>
  - Moon elongation: 34<sup>o</sup>
  - Moon phase: 100%

# Society Events

- Mondays October 09 and 23?
  - NOGS, Newbourne Village Hall, 19:00 onwards
- Friday October 20
  - Lecture Meeting, Methodist Church Hall, Black Horse Lane, Ipswich, 20:00 onwards, 'Active Galactic Nuclei', Dr. Sarah Hutton
- Wednesday October 25
  - Field Trip to Observe Grazing Lunar Occultation of V4190 Sgr, time and location TBA



# Other Events I

- DASH
  - Discussion Meeting, Saturday September 30, 19:30, Westleton Village Hall, Short Talks by Members
- LYRA
  - None this period?
- Athenæum Astronomical Association
  - Observing Meeting, Nowton Park, Thursday September 28 and October 12 from 19:30
  - Public Star Party, Nowton Park, Saturday October 28 from ??

# Other Events II

- Federation of Astronomical Societies
  - Annual Convention, Birmingham University, Saturday September 30
- First Artificial Satellite
  - 60<sup>th</sup> anniversary of the launch of Sputnik 1 on October 04 1957
- Haw Wood Farm
  - Astronomers Week, Friday October 13 to Friday October 20
  - Family Star Gazing Weekend, Friday October 20 to Monday October 23
- Society for the History of Astronomy
  - AGM & Autumn Conference, Saturday October 28, Birmingham