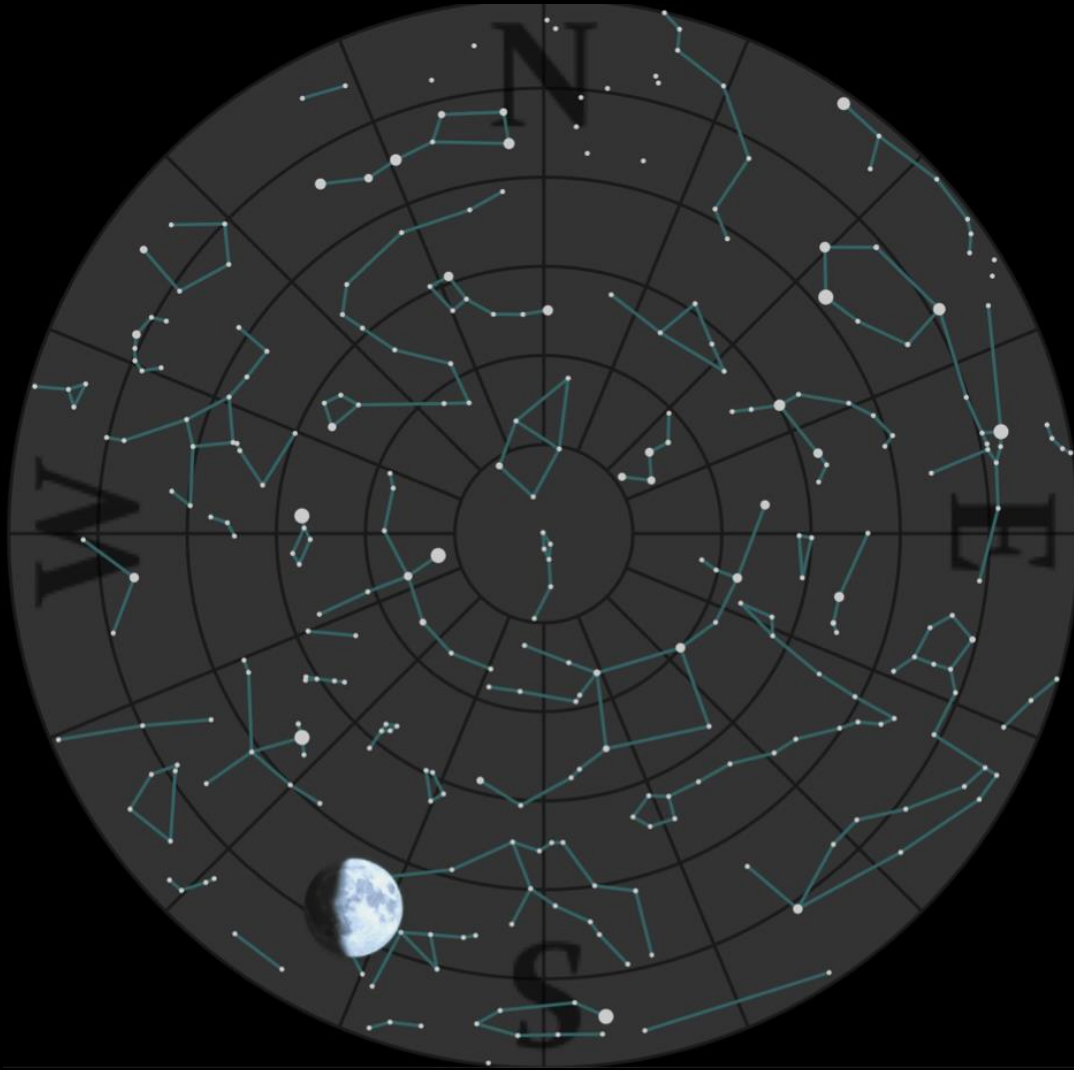


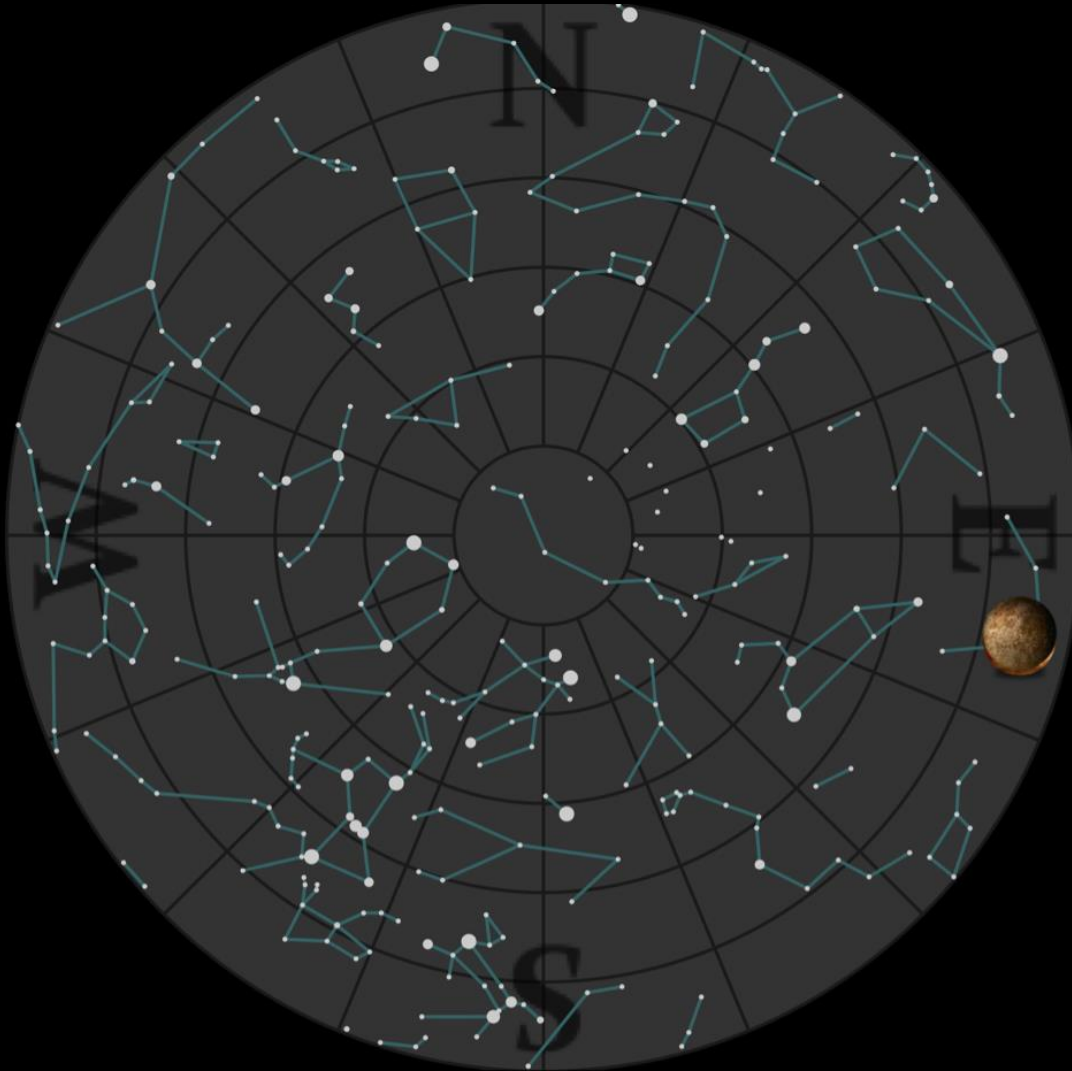
What's Up?

2016 October 10 to November 07

Bill Barton, FRAS

- The Sky 22:00
Tonight





- The Sky 07:00
Tomorrow Morning

Inner Solar System

- Sun
 - Heading South
- Mercury
 - In morning then evening sky this period
 - Best seen over next two weeks
 - Superior conjunction (far side of Sun) on October 27
 - Ahead of Jupiter in the morning sky just now
- Venus
 - In evening sky still moving away from the Sun, but slowing down

Earth

- Moon
 - Full, October 16 (Hunter's Moon), November 14 (Frost Moon)
 - Last Quarter, October 22
 - New, October 30
 - First Quarter, November 07
 - Lunar Occultations, 15 this period, mags 3 to 5
- Eclipses
 - None this period
- Meteors
 - Orionids, October 16-30, ZHR 25

Lunar Occultations

- Morning of Wednesday October 19th
- Moon phase, three days past 'full' rising around 18:55UT (19:55BST) on the previous evening of Tuesday 18th
- γ Tauri (mag 3.7) dark limb reappearance at 00:13UT (01:13BST)
- θ^2 Tauri (mag 3.4) dark limb reappearance at 04:42UT (05:42BST)
- θ^1 Tauri (mag 3.8) dark limb reappearance at 04:46UT (05:46BST)
- HIP21029 (mag 4.8) dark limb reappearance at 05:45UT (06:45BST)

These stars are in the 'Hyades' cluster, γ Tauri is at the apex of the 'V'

Outer Solar System

- Mars
 - In south-west at sunset, setting around 9pm, four hours after the Sun. In Sagittarius
- Jupiter
 - Visible in morning sky, rising one hour before the Sun. In Virgo
- Saturn
 - In west at sunset, setting two hours after Sun. In Ophiuchus
- Uranus
 - Opposition on October 15, in Pisces at $+8^{\circ} 15'$ declination

Society Events

- Lecture Meeting
 - Friday October 14, 8:00pm, Museum Street Methodist Church Hall, Roger Pickard, BAA VSS Director, "Why Observe Variable Stars?"
- Field Trip
 - Friday October 21, 11:30pm, Grazing Lunar Occultation of 20 or 21 Geminorum
- Outreach Event
 - Friday November 4, 7:00pm, Felixstowe Ferry Golf Club, meal and telescope evening
- Lecture Meeting
 - Friday November 11, 8:00pm, Museum Street Methodist Church Hall, Steve Hubbard & Malcolm Brown, "Aliens - are they out there?"

Other Events

- DASH
 - Lecture Meeting, Saturday October 15, 7:30pm, Westleton Village Hall, Paul Webb, "Autumn and Winter Observing"
 - Observing Meeting, Saturday October 29, 7:30pm, Westleton Heath
- Lecture Meeting
 - Friday October 21, 1:00pm, John Innes Centre, Norwich, Dr. Matt Taylor, ESA, "The Rosetta Mission", hosted by the NAS (entrance fee)
- NEAS Astrofest
 - Saturday October 29, 9:00am to 5:30pm, Chelmer Valley High School, Chelmsford, CM1 7ER (tickets in advance or on the door)