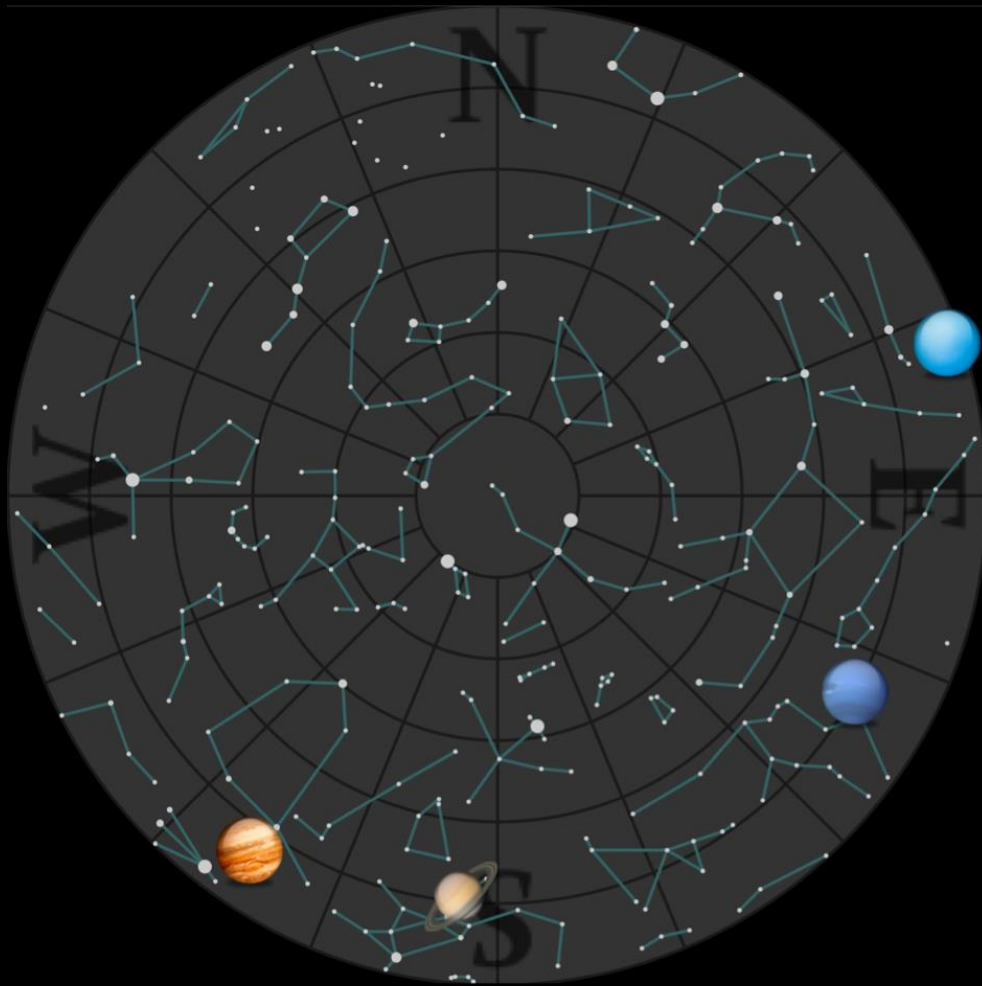


What's Up?

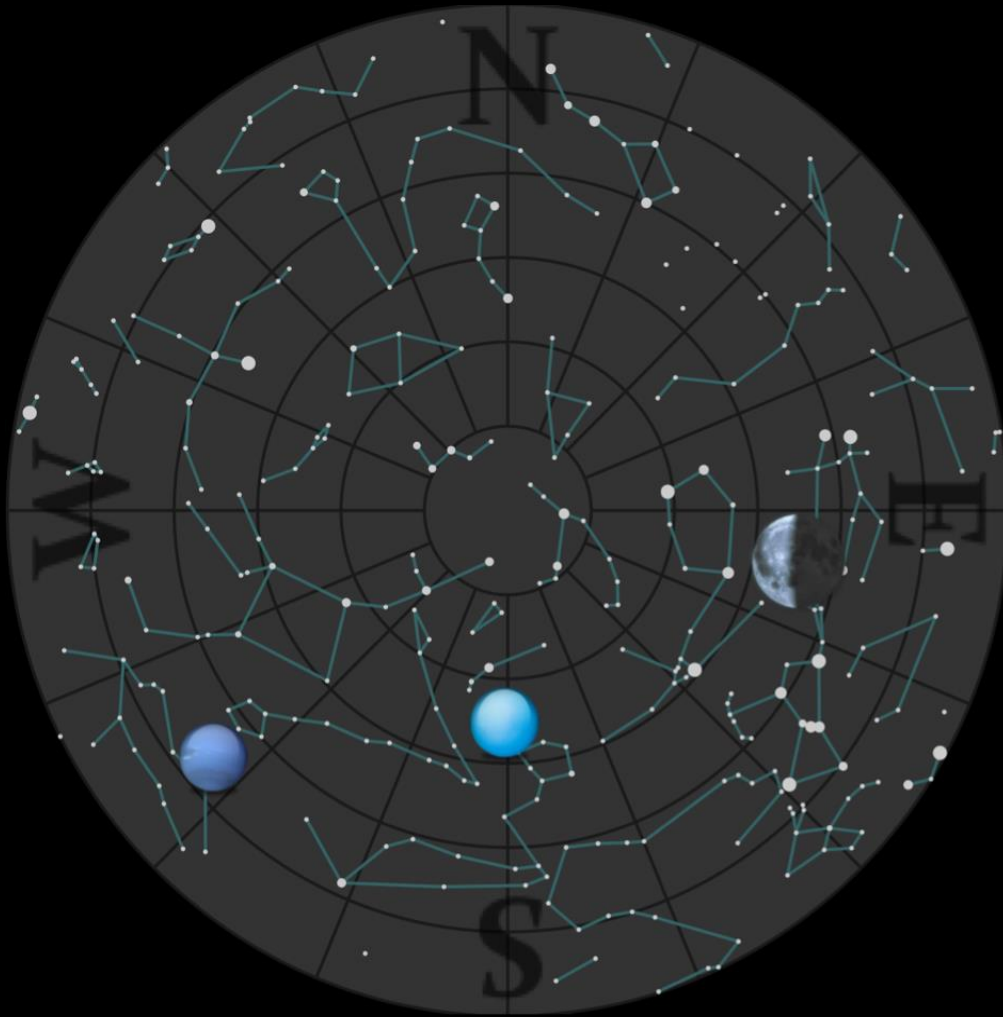
2019 August 26 to September 23

Bill Barton, FRAS

•The Sky 22:00
Tonight







- The Sky 05:00
Tomorrow



Inner Solar System

- Sun
 - Declination decreasing, equinox September 23
- Mercury
 - In morning sky until superior conjunction September 04
 - In evening sky, greatest elongation October 20 (25°)
 - Next inferior conjunction (November 11) will be a transit
 - Currently rising 04:55, setting 19:50
- Venus
 - Superior conjunction was on August 14
 - In evening sky, greatest elongation March 13 2020 (46°)
 - Currently rising 06:10, setting 20:10

Earth

- Time
 - 00:00UT \approx 20:00ST today
 - Today sunrise 05:50, sunset 20:00BST
 - End of period sunrise 06:40, sunset 18:50BST
- Moon
 -  New, 30
 -  First Quarter, 06
 -  Full, 14 (Harvest)
 -  Last Quarter, 22
- Meteors
 - Only weak activity this period
 - Gamma Aquirids, September 1-14, ZHR 1-4

Occultations

- Lunar
 - August 27,
 - δ Gem mag 3.5
 - Disappearance bright limb 05:05 BST
 - Recovery dark limb 05:25 BST
 - Grazing from the Severn to the Wash

Outer Solar System

- Mars
 - Currently rising 06:05, setting 20:15. Solar Conjunction September 02
- Jupiter
 - Currently rising 15:30, setting 23:30. Opposition was on June 10, Solar Conjunction December 27
- Saturn
 - Currently rising 17:40, setting 01:40. Opposition was on July 09, Solar Conjunction 2020 January 02
- Uranus
 - Currently rising 21:40, setting 12:10. Opposition on October 28
- Neptune
 - Currently rising 20:20, setting 07:30. Opposition on September 10

Society Events

- Committee Meeting
 - Friday 06 September, from 08:00pm, Horley Spiritualist Church, 345 London Rd, Ipswich IP2 0BG
- Lecture Meeting
 - Friday 20 September, St. Augustines Church Hall, IP3 8TJ, from 08:00pm, Dr. Matt Bothwell 'Monsters in the Dark: Searching for the Most Massive Galaxies'
- Open Weekend at Orwell Park
 - Friday 27 & Saturday 28 September, from 07:30pm, help needed

Other Events

- FAS Convention & AGM
 - Saturday 14 September, 09:45am-06:00pm, Institute of Astronomy, Madingley Rd., Cambridge
 - Dr Mark Clilverd, British Antarctic Survey “Solar storm effects on ground-based infrastructure”
 - Dr Richard Ghail, Royal Holloway, University of London “New insights from our closest Earth-sized exoplanet: Venus”
 - Jenny Lister, “Astronomy for all: its place in education”
 - Dr Floor van Leeuwen, Institute of Astronomy, “Details of the HR diagram as revealed by the second Gaia data release”
 - Prof Carlos Frenk, University of Durham “Everything from nothing: how our universe was made”
 - Tickets £10/8

Other Events

- Athenæum Astronomical Association
 - Meetings at Nowton Park, Bury Rd., Nowton, IP29 5BD
 - Thursday 05 September, 07:30pm, Details TBA
 - Thursday 19 September, 07:30pm, Details TBA

Other Events

- DASH
 - Meeting at Darsham Village Hall, IP17 3QA
 - Sunday 8 September, 07:30pm, Sonali Shukla, Lecturer in Astronomy, Cambridge University, 'Brown Dwarfs: Linking Stars to Planets'
- LYRA
 - Meetings at Parkhill Hotel, Oulton, NR32 5DQ
 - Tuesday 10 September, 07:30pm, TBA
 - Tuesday 24 September, 07:30pm, Observing

And Finally....

- Gamma Aquariid Meteors
 - Shower active September 01-14
 - Maximum, September 07 ($\lambda=164^\circ$) from $\alpha=333^\circ$, $\delta=-5^\circ$
1-4 meteors per hour
- Independently discovered in 1921 by
A. Grace Cook (1877-1958) and
J. P. M. Prentice (1903-1981)