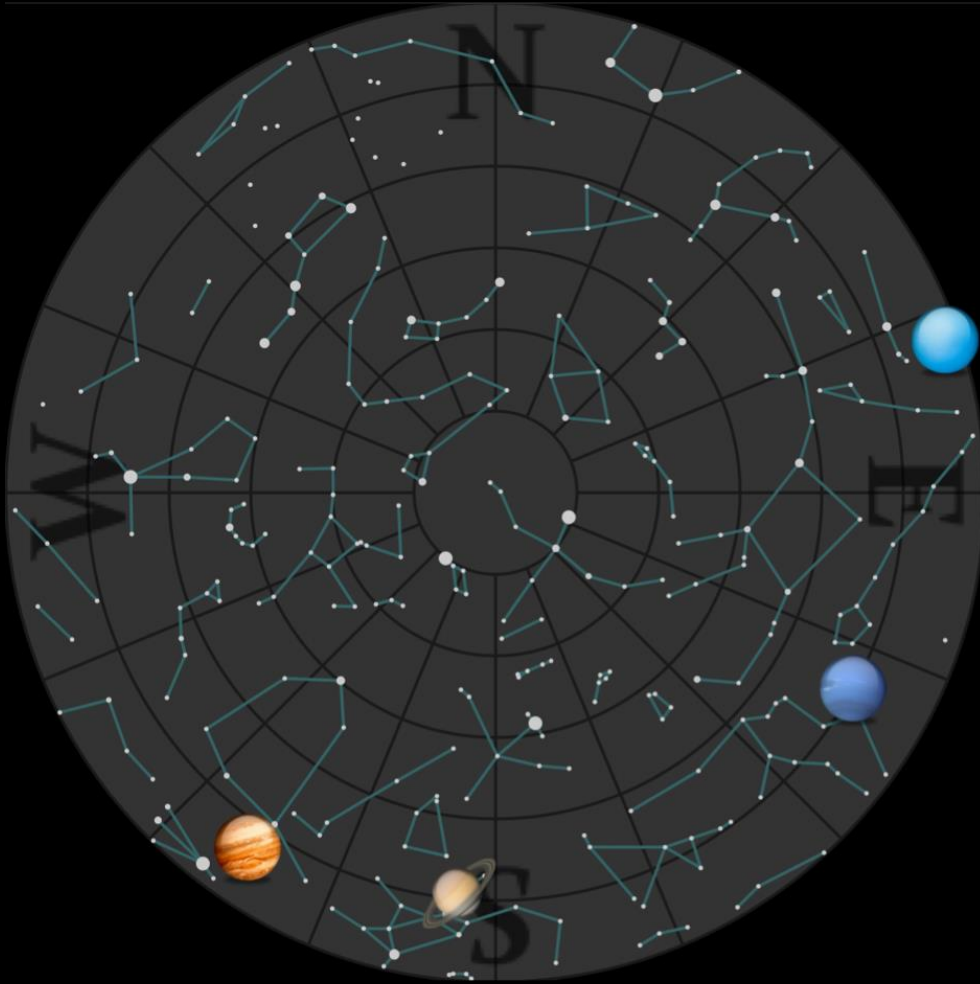


# What's Up?

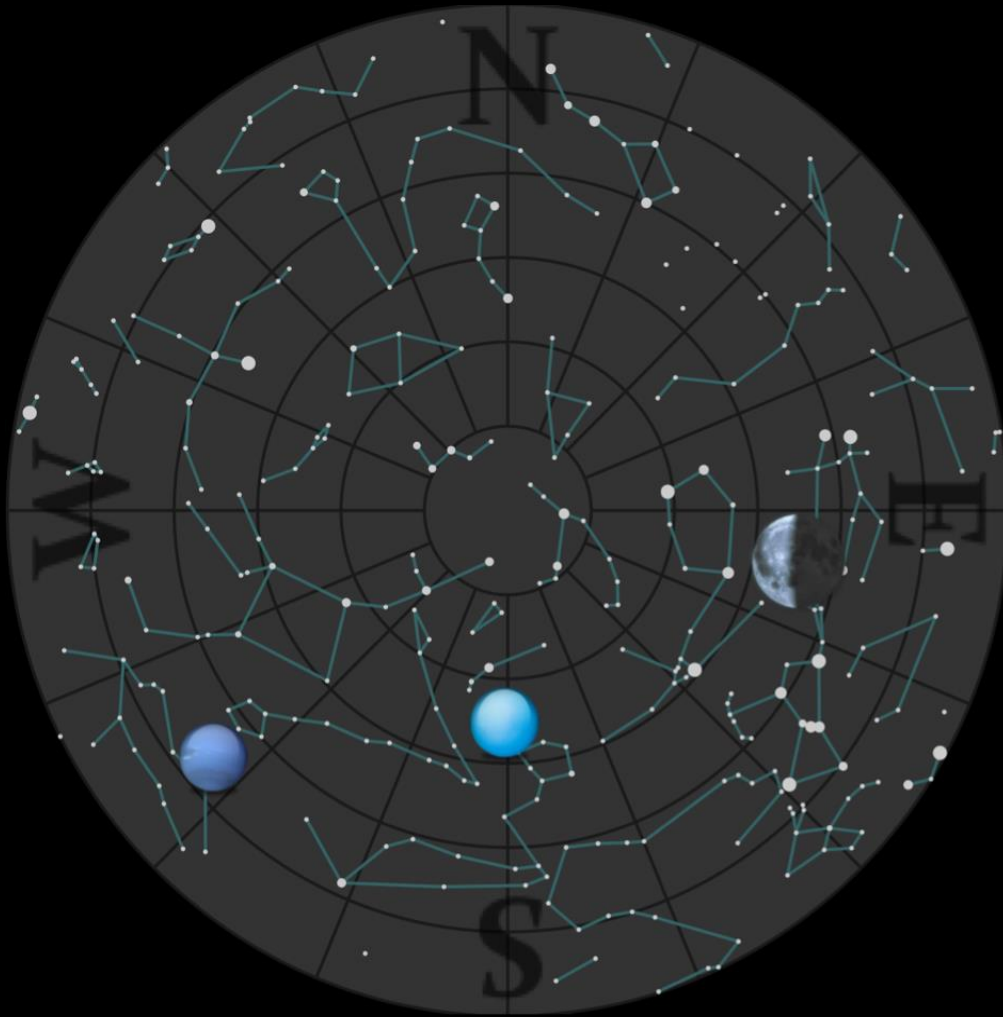
2019 August 26 to September 23

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 ( $25^\circ$  )
  - 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 ( $46^\circ$  )
  - 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,
    - $\delta$  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)