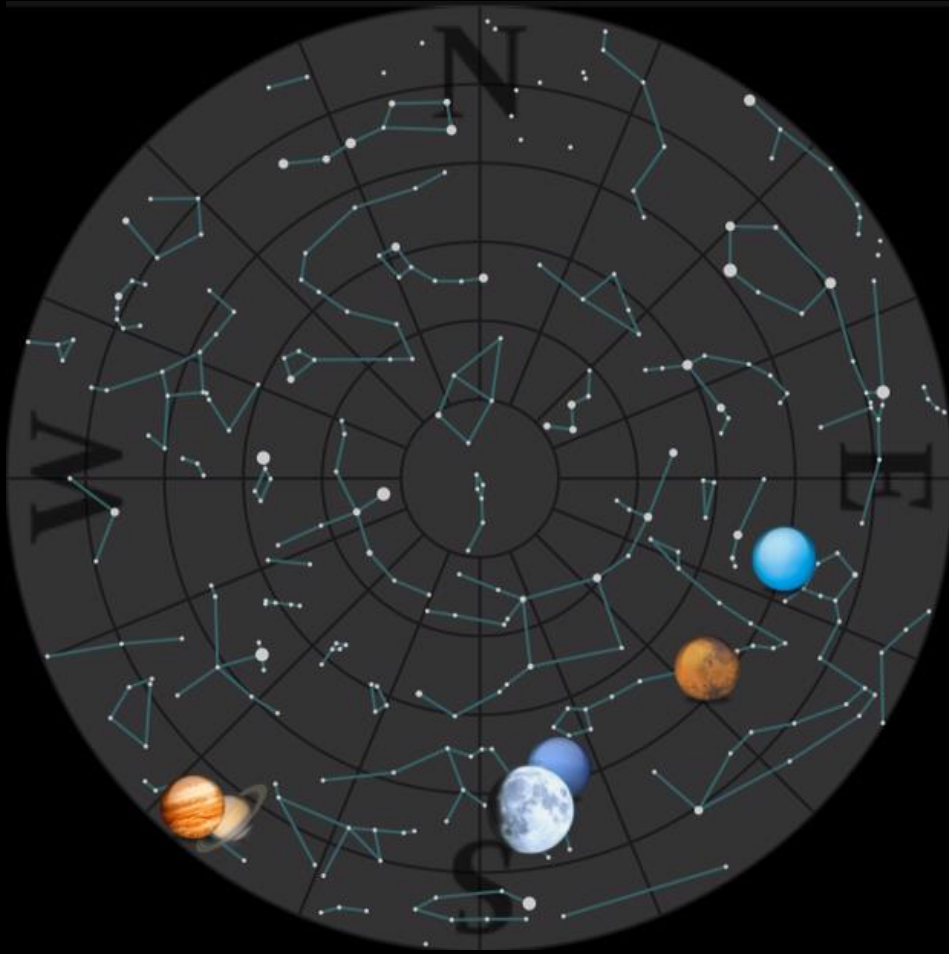


# What's Up?

2020 October 26 to November 23

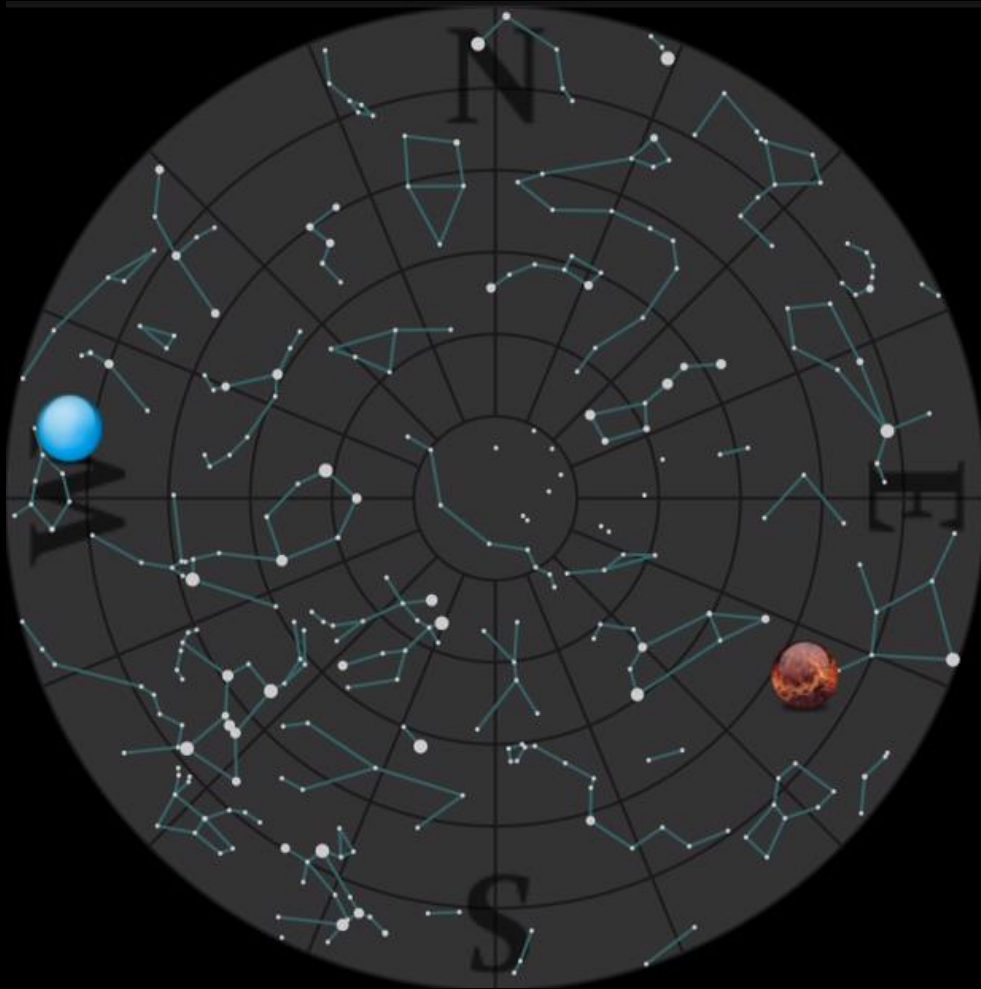
Bill Barton, FRAS

•The Sky 20:00  
Tonight



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- The Sky 06:00  
Tomorrow



# Inner Solar System

- Sun
  - Declination decreasing, solstice December 21, perihelion 2021 January 02
- Mercury
  - Inferior conjunction on October 25 (yesterday)
  - In morning sky, greatest western elongation November 10 ( $19^\circ$  )
  - Today, rise 06:40, transit 11:35, set 16:30
- Venus
  - In morning sky, greatest western elongation August 13 ( $46^\circ$  )
  - Superior conjunction 2021 March 26
  - Today, rise 03:10, transit 09:30, set 15:45

# Earth

- Time
  - 00:00UT  $\approx$  02:20ST today
  - BST ended 02:00 Sunday 25 October
  - Today, sunrise 06:40, transit 11:35, sunset 16:35
  - End of period, sunrise 07:30, transit 11:40, sunset 15:50
- Moon
  -  Full, 31 (Blue Moon)
  -  Last Quarter, 08
  -  New, 15
  -  First Quarter, 22
- Meteors
  - Orionids, ZHR = 20, until November 07

# Occultations

- Lunar
  - $\iota$  Tauri, mag 4.6, RD, November 03, 19:38
  - $\omega$  Geminorum, mag 5.2, RD, November 06, 01:33
  - $\nu$  Virginis, mag 4.0, DB, November 11, 05:28 & RD, 06:31
- Grazing Lunar
  - S79805, mag 6.8, November 06, 23:55
  - S79864 (d), mag 6.4, November 07, 02:24
  - S80552, mag 7.6, November 08, 03:27

# Outer Solar System

- Mars
  - Opposition October 13, solar conjunction 2021 October 8. Today, rise 16:10, transit 22:40, set 05:15
- Jupiter
  - Opposition July 14, solar conjunction 2021 January 29. Today, rise 13:05, transit 17:00, set 21:00
- Saturn
  - Opposition July 20, solar conjunction 2021 January 24. Today, rise 13:20, transit 17:25, set 21:30
- Uranus
  - Opposition October 31. Today, rise 16:40, transit 00:00, set 07:20
- Neptune
  - Opposition September 11. Today, rise 15:20, transit 20:50, set 02:30

# OASI Events

- New series of web-based (Zoom) lectures
- Friday 20 November 2020, 8:00pm
  - Big bangs to big rips: a history of 20th century cosmology
    - Matt Bothwell



# Societies Events

- Physical Events Cancelled or Postponed due to Coronavirus
- Virtual Meetings or Webinars