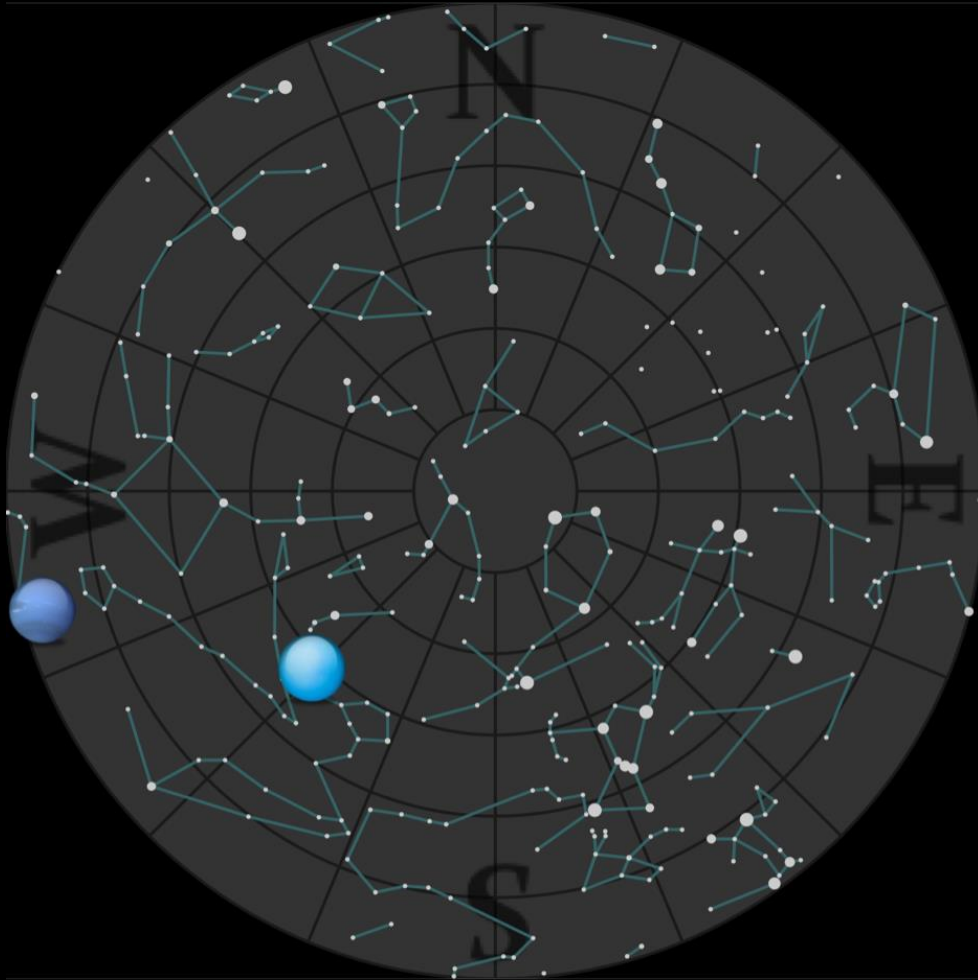


What's Up?

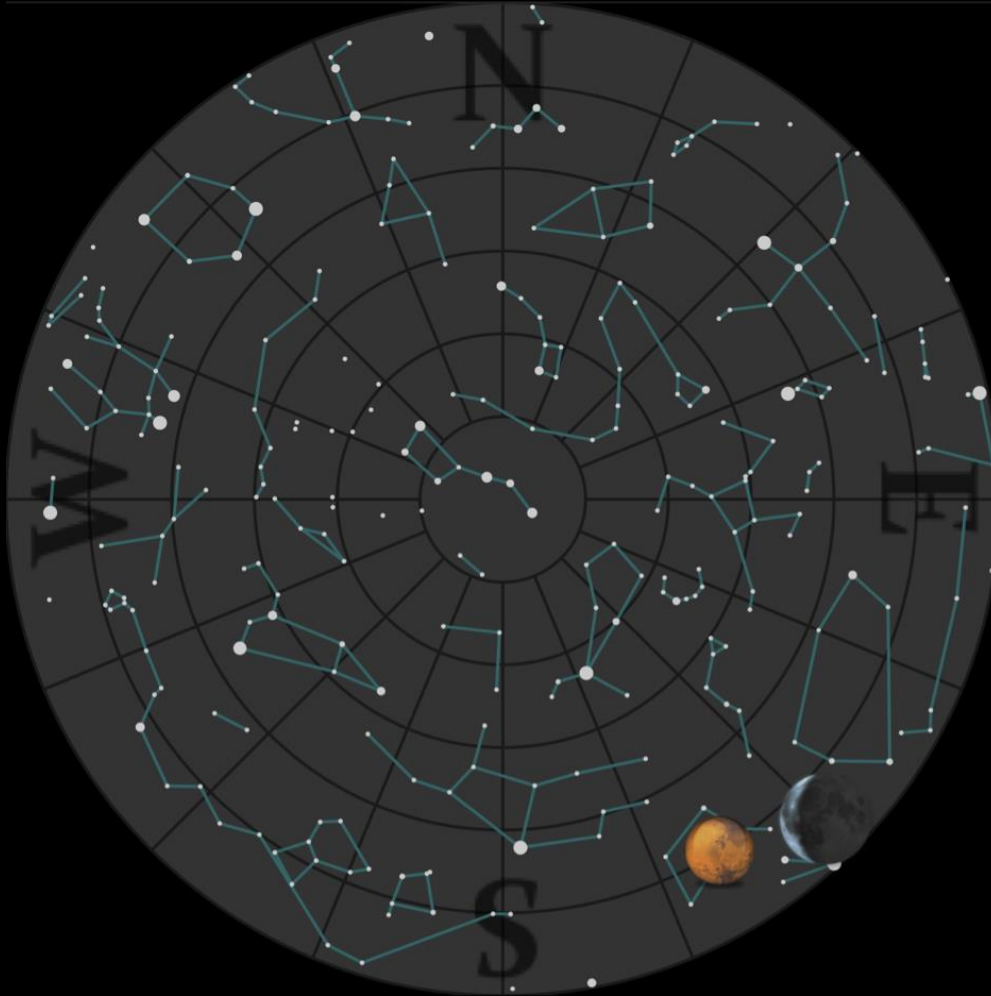
2019 December 23 to 2020 January 27

Bill Barton, FRAS

•The Sky 22:00
Tonight



•The Sky 07:00
Tomorrow



Inner Solar System

- Sun
 - Perihelion on January 05 (0.9832 au)
 - Declination increasing, Equinox March 20 (03:50)
- Mercury
 - In morning sky, greatest western elongation November 28 (20°)
 - Superior conjunction on January 10
 - Then in evening sky, greatest eastern elongation February 10 (18°)
 - Today, rise 07:16, transit 11:06, set 14:56
- Venus
 - In evening sky, greatest eastern elongation March 24 2020 (46°)
 - Inferior conjunction on June 03
 - Today, rise 10:07, transit 14:12, set 18:17

Earth

- Time
 - 00:00UT \approx 06:05ST today
 - Today, sunrise 08:02, transit 11:52, sunset 15:41
 - End of period, sunrise 07:44, transit 12:05, sunset 16:27
- Moon
 - 🌑 New, December 26 & January 24
 - 🌒 First Quarter, 03
 - 🌕 Full, 10 (Old Moon)
 - 🌘 Last Quarter, 17
- Meteors
 - Quadrantids, December 28 to January 12, peak 4, ZHR = 80+

Eclipses

- Annular Solar
 - December 26, Thursday
 - 1st 02:30
 - 2nd 05:01
 - 3rd 05:34
 - 4th 08:06
 - Not visible from UK
- Partial Penumbral Lunar
 - January 10, Friday
 - 1st 17:08
 - 4th 21:12
 - Visible from UK

Occultations

- Lunar
 - January 09, Thursday
 - μ Gem, mag +2.9
 - Disappearance dark limb 17:06
 - Recovery bright limb 17:50

Outer Solar System

- Mars
 - Opposition 2020 October 13. Today, rise 04:42, transit 09:09, set 13:35
- Jupiter
 - Solar conjunction December 27, opposition 2020 June 10. Today, rise 08:17, transit 12:08, set 15:59
- Saturn
 - Solar conjunction 2020 January 02, opposition July 20. Today, rise 09:15, transit 13:16, set 17:16
- Uranus
 - Solar conjunction 2020 April 26, opposition October 31. Today, rise 12:43, transit 19:50, set 3:00
- Neptune
 - Solar conjunction 2020 March 08, opposition September 11. Today, rise 11:28, transit 16:58, set 22:28

Society Events

- Annual General Meeting
 - Friday 17 January, Horley Spiritualist Church, London Rd., from 08:00pm

Other Events I

- Athenæum Astronomical Association
 - Nowton Park, Bury Rd., Nowton, IP29 5BD
 - Thursday ?? January, 07:30pm, TBA
- Darsham And Surrounding Hamlets
 - Darsham Village Hall, IP17 3QJ
 - Sunday 12 January, 07:30pm, Mike Poxon 'Variable Stars'
 - Dunwich Coastguard Cottages
 - Saturday 18 January, from 06:00pm, public observing
- Lowestoft & Yarmouth Regional Astronomers
 - Parkhill Hotel, Oulton, NR32 5DQ
 - Tuesday ?? January 07:30pm, TBA

Other Events II

- Society for Popular Astronomy
 - Gustav Tuck Lecture Theatre, University College London, Gower St.
 - Saturday 25 January, 02:00pm
- British Astronomical Association
 - Institute of Physics, 37 Caledonian Rd., London
 - Saturday 25 January, 02:00pm

And Finally

- A Happy Christmas
- And A Prosperous 2020 To All Our Members