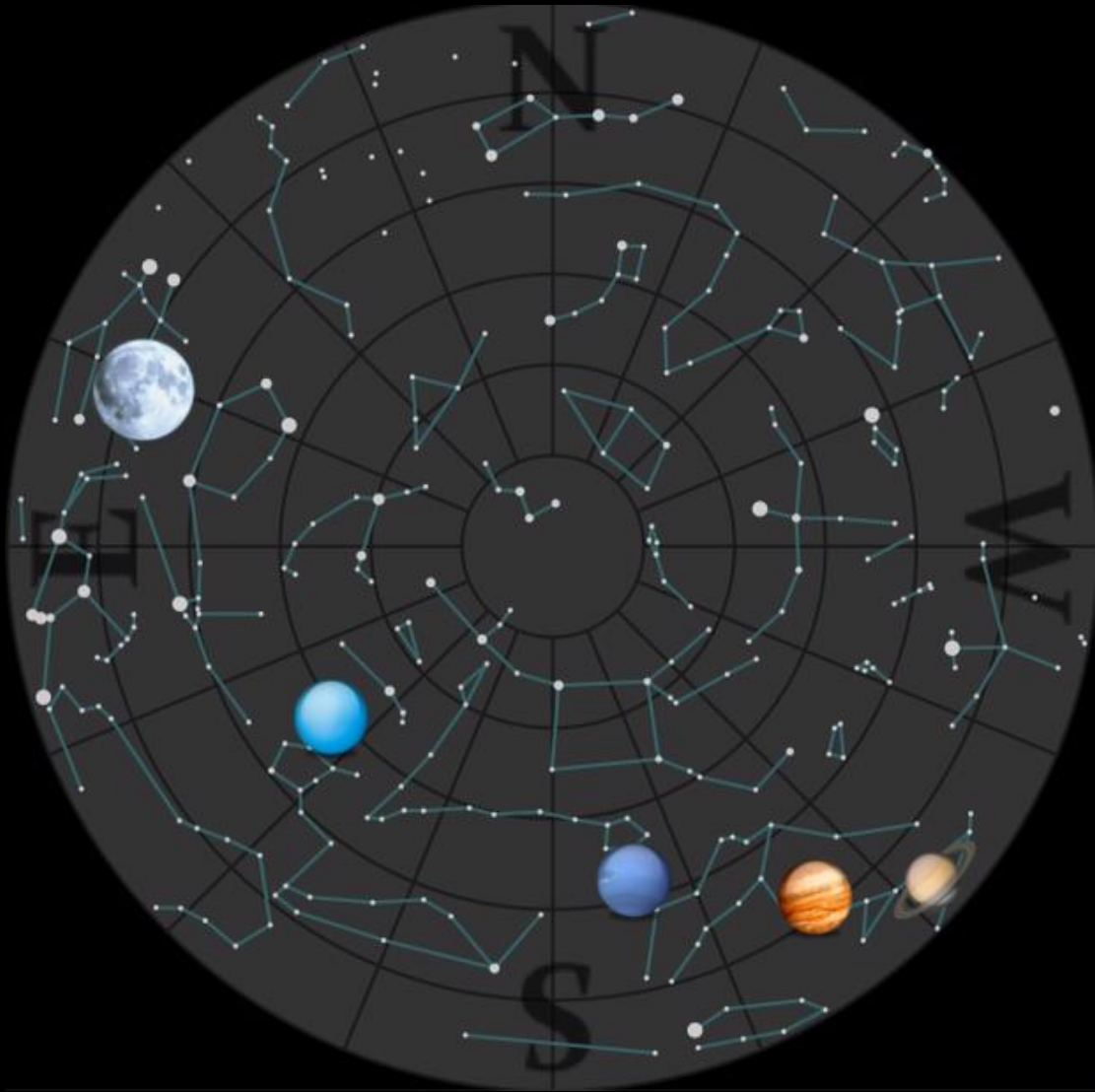


What's Up?

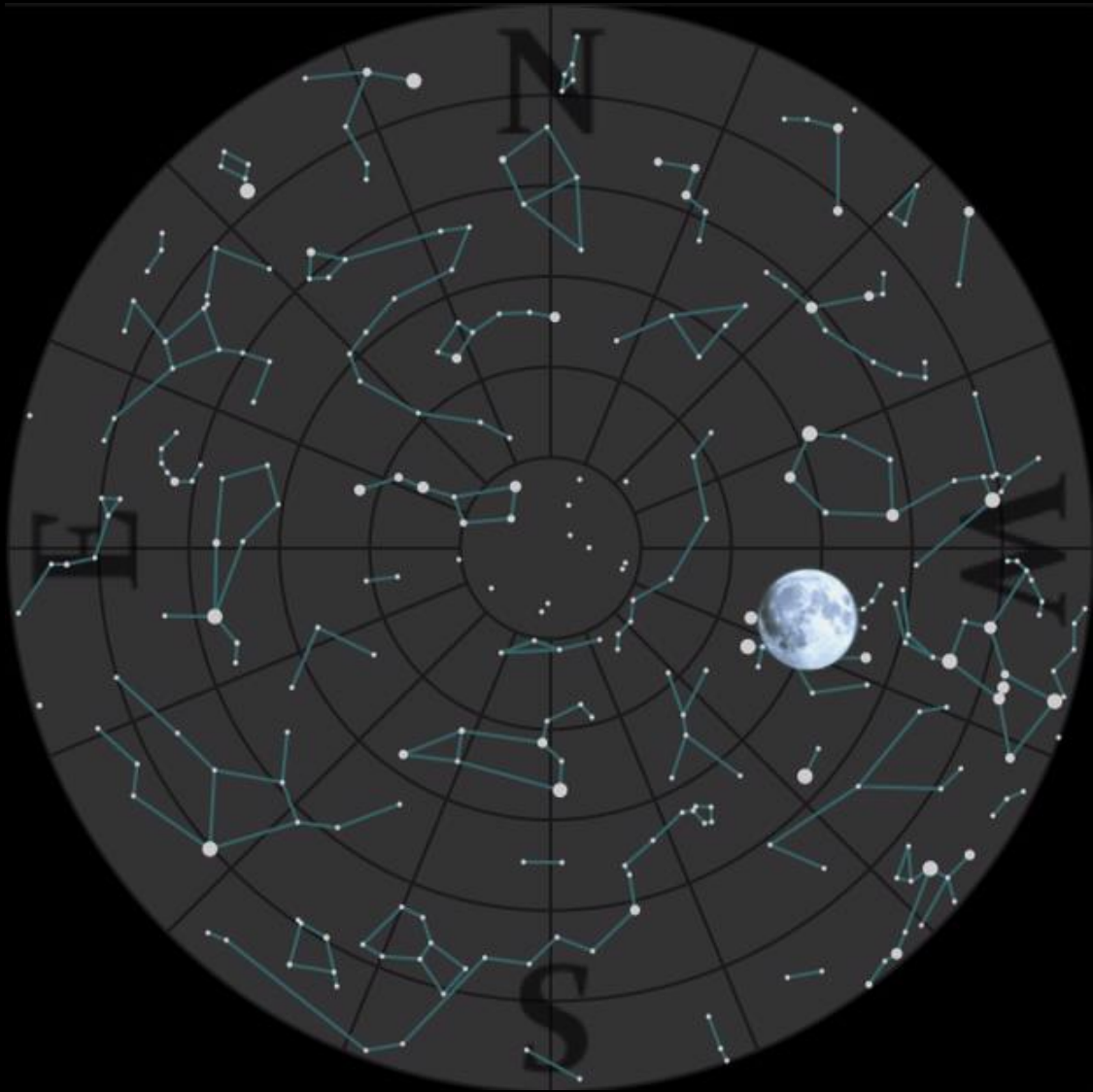
2021 November 22 to 2022 January 24

Bill Barton, FRAS

- The Sky 21:00
Tonight







•The Sky 07:00
Tomorrow



Inner Solar System

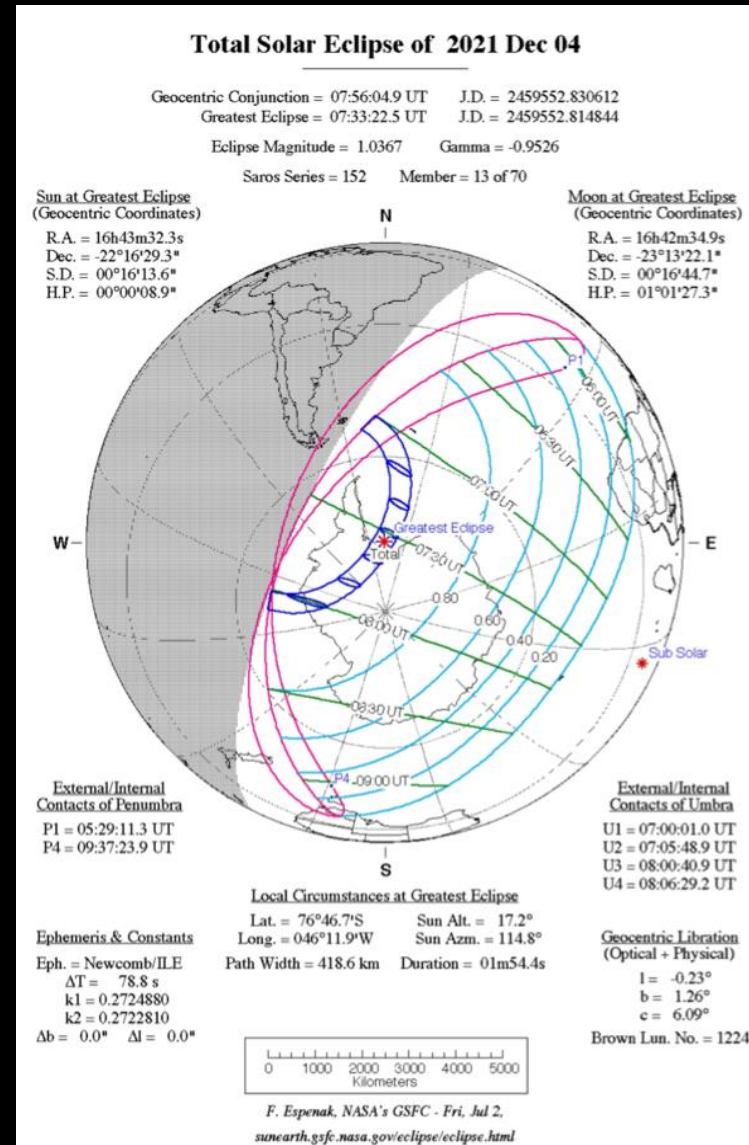
- Sun
 - Declination decreasing, solstice Dec. 21, then increasing perihelion Jan. 04, 2022
- Mercury
 - In morning sky, superior conjunction Nov. 29, currently 05°
 - Then in evening sky, greatest elongation Jan. 07 (19°)
 - Inferior conjunction Jan. 23, 2022
 - Today, rise 07:05, transit 11:25, set 15:40
- Venus
 - In the evening sky greatest eastern elongation was Oct. 29 (47°), currently 45°
 - Inferior conjunction Jan. 09, 2022, then in morning sky
 - Today, rise 11:20, transit 14:50, set 18:20

Earth

- Time
 - 00:00UT \approx 04:00ST today
 - Today, sunrise 07:25, transit 11:45, sunset 16:00
 - End of period, sunrise 07:45, transit 12:10, sunset 16:30
- Moon
 -  Last Quarter, Nov. 27, Dec. 27
 -  New, Dec. 04, Jan. 02
 -  First Quarter, Dec. 11, Jan. 09
 -  Full, Dec. 19, Jan. 17
- Meteors
 - Geminid, Dec. 04-17, peak 08:00 on the 14th, ZHR= +100
 - Quadrantid, Dec. 28-Jan. 12, peak 17:00 on the 03rd, ZHR=+80

Eclipse

- Solar
 - December 04
 - 07:34
 - Not visible from U.K.



Occultations

- Lunar
 - η Leonis mag. 3.5, Dec. 24, DB 04:25, RD 05:09

Outer Solar System

- Mars
 - Solar conjunction Oct. 08. Opposition Dec. 08, 2022. Today, rise 06:05, transit 10:45, set 15:20
- Jupiter
 - Opposition Aug. 20. Conjunction Mar. 05, 2022. Opposition Sept. 26, 2022. Today, rise 12:50, transit 17:35, set 22:20
- Saturn
 - Opposition Aug. 02. Conjunction Feb. 04, 2022. Opposition Aug. 04, 2022. Today, rise 12:15, transit 16:30, set 20:50
- Uranus
 - Opposition Nov. 04. Today, rise 15:00, transit 22:30, set 05:50
- Neptune
 - Opposition Sept. 14. Conjunction Mar. 13, 2022. Today, rise 13:30, transit 19:15, set 00:50

OASI Events

- Thursday November 25, 8:00pm
 - Committee Meeting, Zoom
- Friday November 26, 8:00pm
 - “Sideways Astronomy”, Steve Hubbard, hybrid meeting at St. Augustine’s Church Hall & on Zoom
- Wednesday December 08, 8:00pm
 - Dr Belinda Wilkes, Former Director of Chandra X Ray Observatory, “NASA’s Chandra X-ray Observatory: Leading a Revolution in X-ray (And All) Astronomy”, Zoom presentation only

Societies Events

- BAA Christmas Meeting, Saturday 04 December 2:00-6:00pm, Prof Catherine Heymans “The Mysteries of the Multiverse” & Prof Sara Russell “The Winchcombe Meteorite”, Royal Society of Medicine, Wimpole St., W1 (Booking necessary)

2022 Look Ahead

- Planetary appulse Apr. 27, 20:00, Neptune & Venus 0.01° apart, solar elongation 43° . Venus rise 04:30
- Lunar occultation of Uranus Sept. 14, 22:28(DB)-23:20(RD), full moon Sept. 10, moonrise 20:30, moonset 12:40 (15th)
- Partial solar eclipse Oct. 25, 10:07:51-11:54:46, 15% obscuration
- December 7th/8th
 - Moonrise 15:00, full Moon 04:08, Moon occults Mars 05:00(DD)-05:59(RD), Moonset 09:30
 - Mars opposition 17.0" (25", 0.68 max)