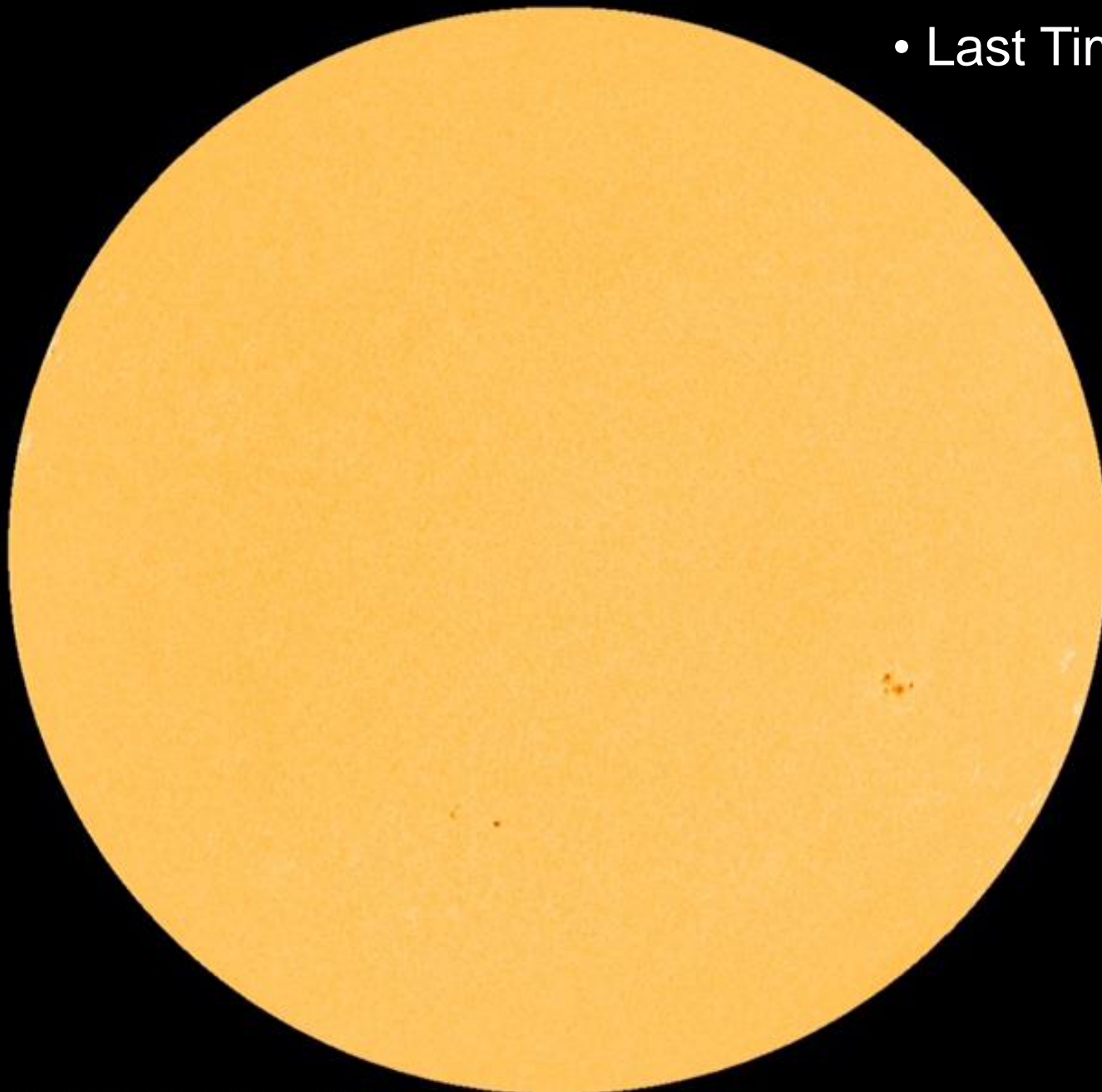


# What's Up?

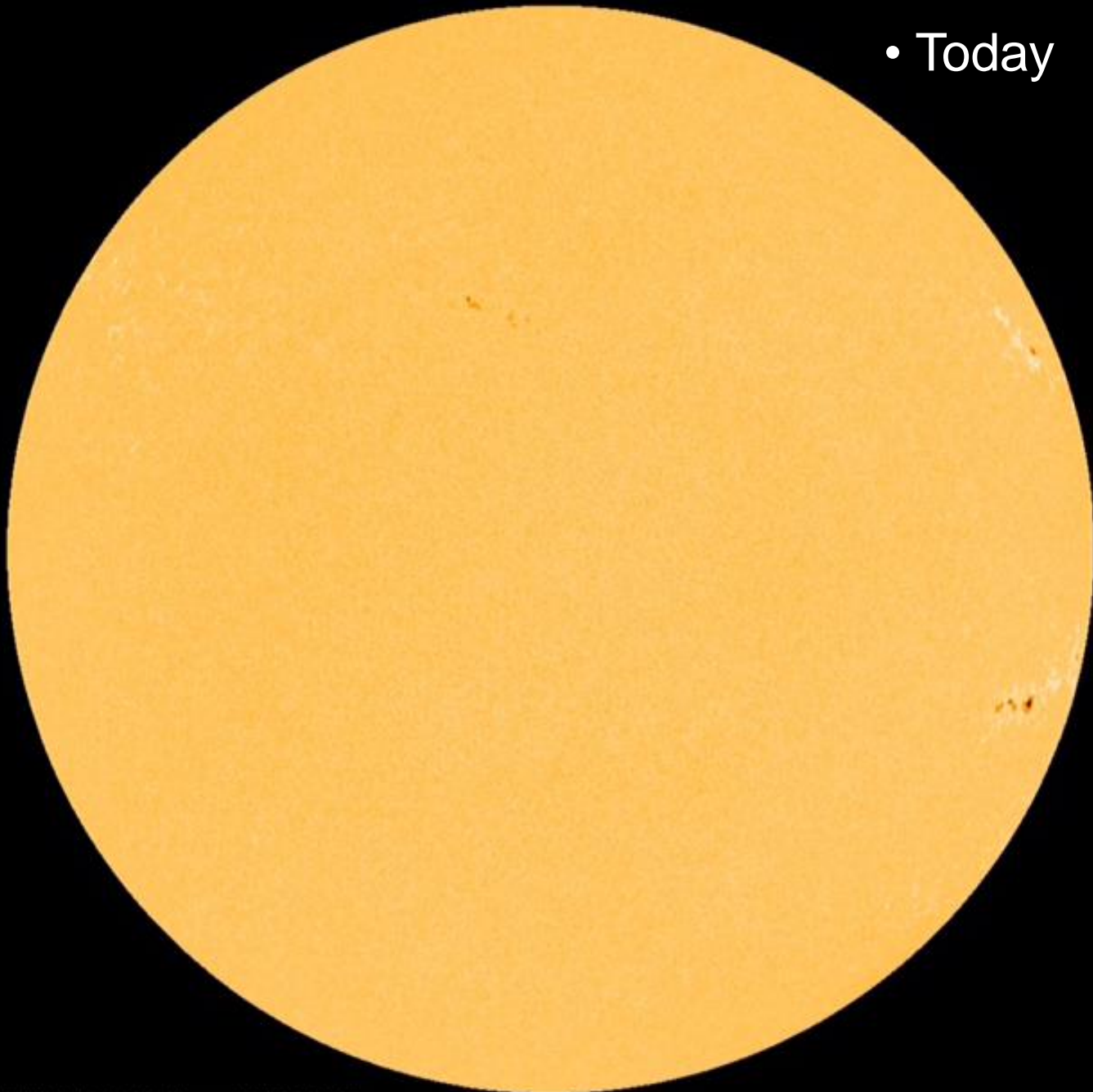
2022 November 28 to 2023 January 23

Bill Barton, FRAS

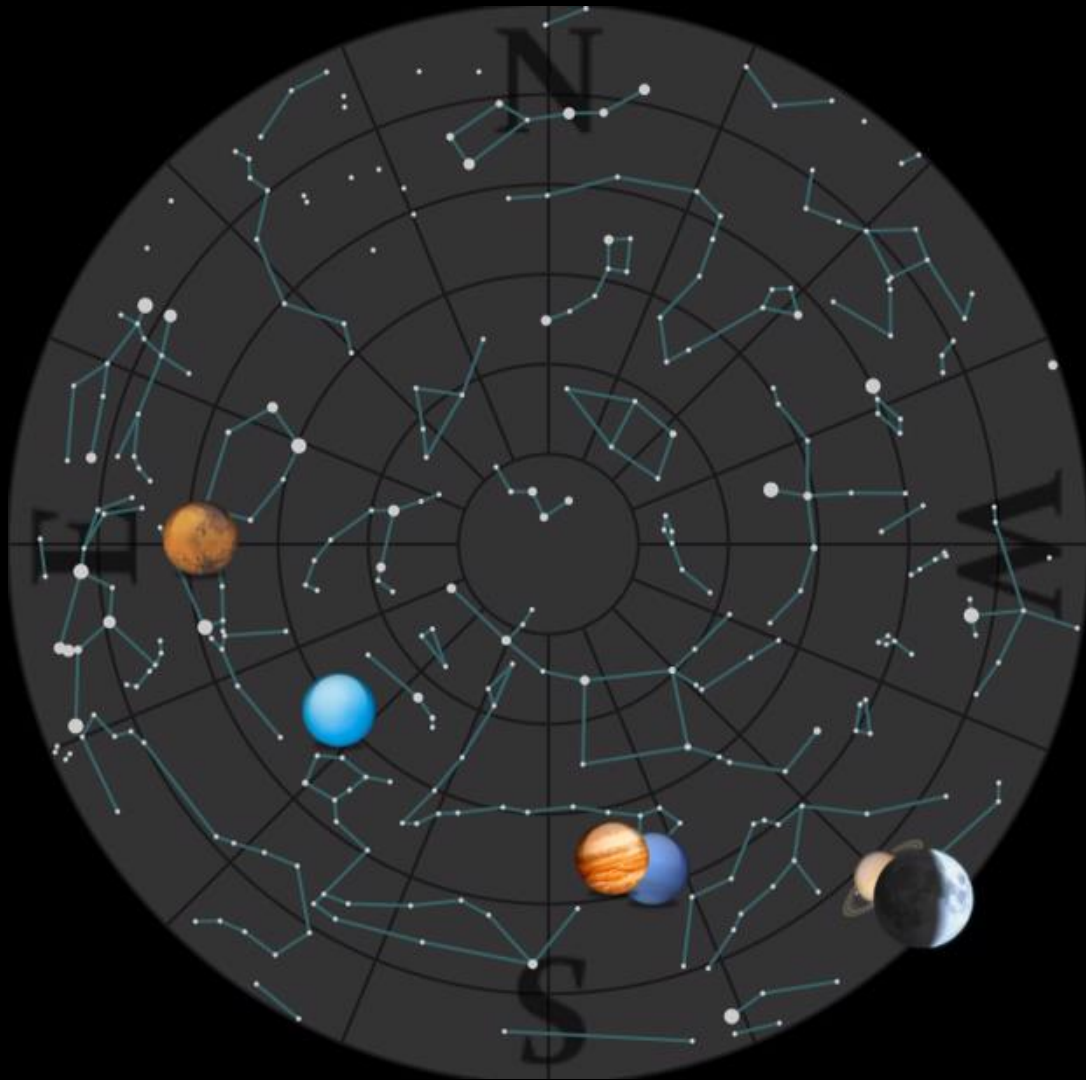
• Last Time



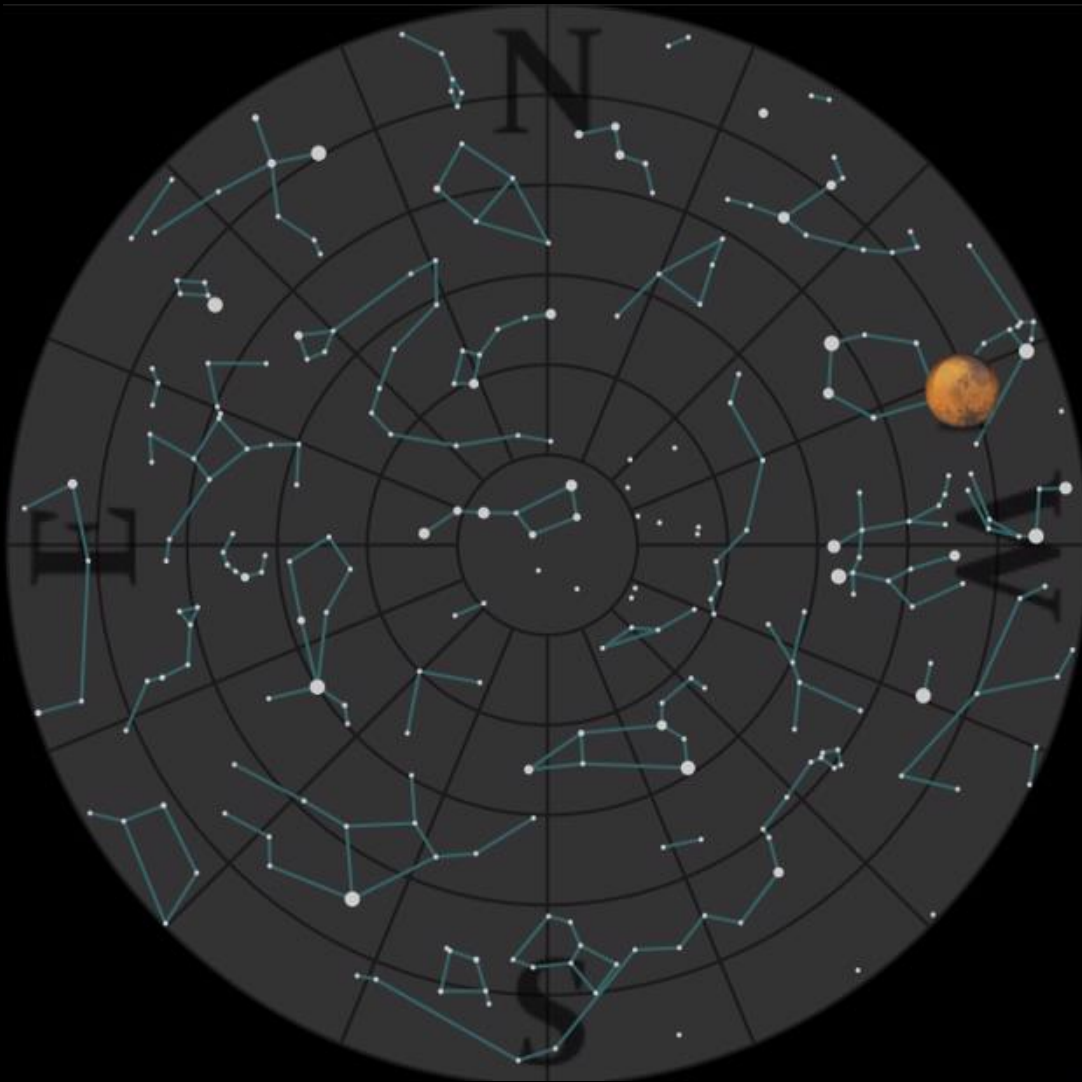
- Today



- The Sky 20:00 Tonight







- The Sky 07:00  
Tomorrow



# Inner Solar System

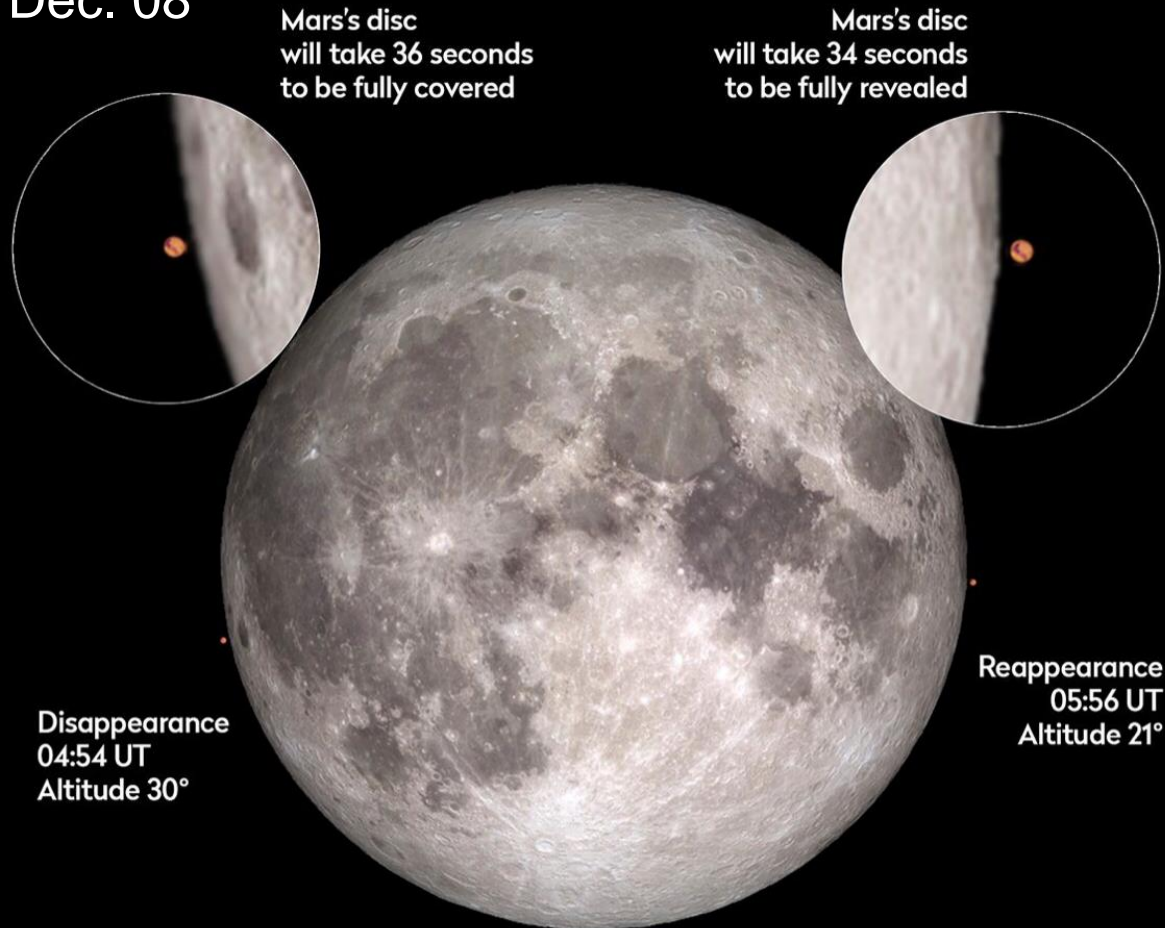
- Sun
  - Declination decreasing, solstice Dec. 21, then increasing, perihelion Jan. 04
- Mercury
  - In evening sky, greatest elongation Dec. 21 ( $20^\circ$  ), currently  $10^\circ$
  - Inferior conjunction Jan. 07
  - Then in morning sky, greatest elongation Jan. 30 ( $25^\circ$  )
  - Today, rise 08:50, transit 12:30, set 16:10
- Venus
  - In evening sky greatest elongation Jun. 04 ( $45^\circ$  ), currently  $9^\circ$
  - Today, rise 08:30, transit 12:20, set 16:15

# Earth

- Time
  - 00:00UT  $\approx$  04:30ST today
  - Today, sunrise 07:35, transit 11:40, sunset 15:50
  - End of period, sunrise 07:50, transit 12:05, sunset 16:25
- Moon
  -  First Quarter, 30, Dec. 30
  -  Full, Dec. 08 ('Long Night' Moon), Jan. 06 ('Old' Moon)
  -  Last Quarter, Dec. 16, Jan. 15
  -  New, Dec. 23, Jan. 21
- Meteors
  - Geminids, Dec 04-17, peak Dec. 14, ZHR 100+
  - Quadrantids, Dec. 28-Jan. 12, peak Jan. 3-4, ZHR 80+

# Occultations I

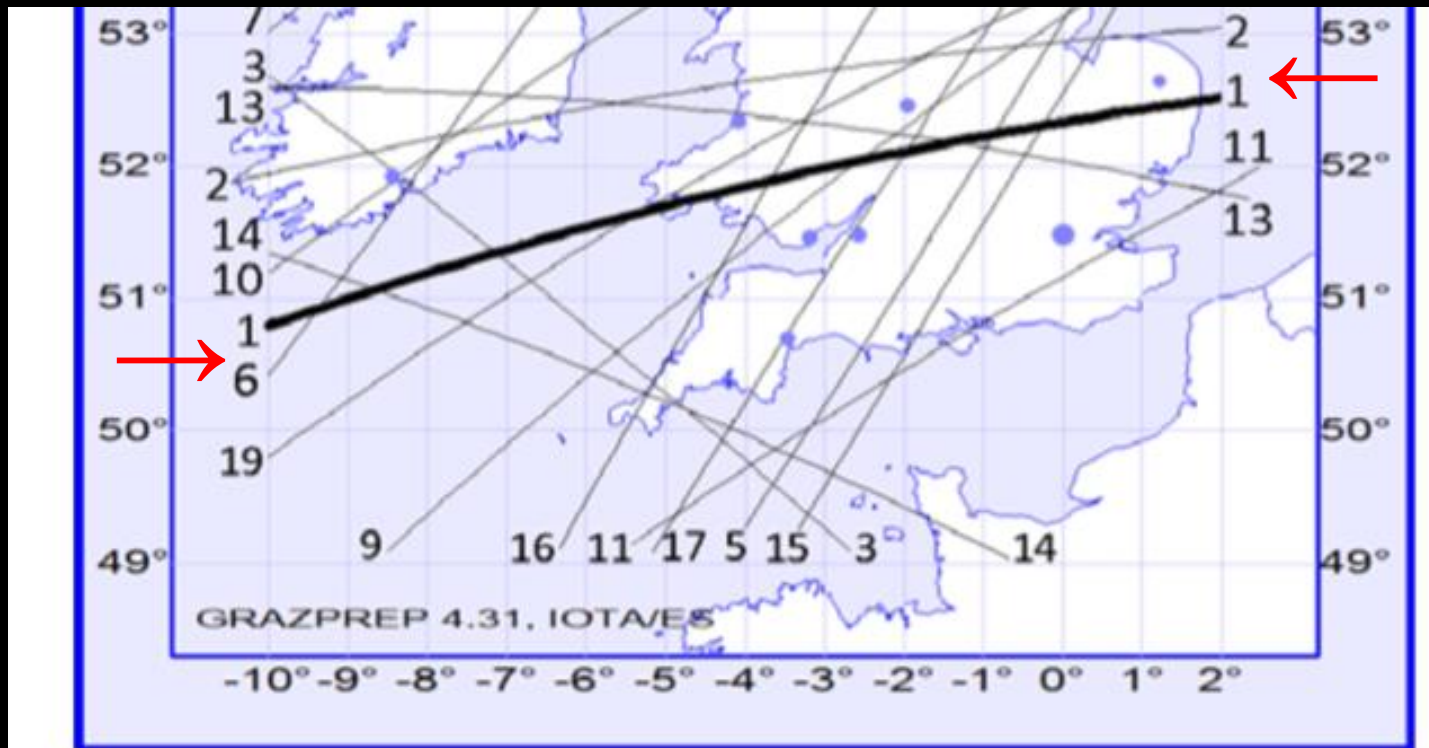
- Lunar
  - Mars, 05:00-06:00, Dec. 08





# Occultations II

- Lunar
  - Graze, Uranus, 22:35, Jan. 01, southern limit.



# Conjunctions

- None of note this period

# Outer Solar System

- Mars
  - Opposition Dec. 08. Conjunction Nov. 18, 2023. Today, rise 16:10, transit 00:30, set 09:10
- Jupiter
  - Conjunction Apr. 11, 2023. Today, rise 13:30, transit 19:20, set 01:10
- Saturn
  - Conjunction Feb. 17, 2023. Today, rise 12:15, transit 16:50, set 21:30
- Uranus
  - Opposition Nov. 09. Conjunction May 09, 2023. Today, rise 14:45, transit 22:15, set 05:50
- Neptune
  - Conjunction Mar. 15, 2023. Today, rise 13:15, transit 19:00, set 00:40

# OASI Events

- Christmas Meal
  - 8pm, Dec. 07, Westerfield Swan
- Committee Meeting
  - 8pm, Dec. 09, via Zoom
- AGM
  - 8pm, Jan. 21, 2023, location TBA
- John Barbrook, 'Ipswich & District Astronomical Society (1950-55)'
  - 27 Feb. 2023, [here](#)

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - Dec. 04, Dave Green, 'Astrophotography for Dummies. Using the EV Scope'
  - Jan. 08, Dr. Steve Hubbard, 'Telescopes and Eyepieces for Beginners'
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
  - Dec. 13, Christmas Meeting
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
  - Dec. 07, Art & Astronomy
  - Dec. 14, Andy Green, 'The Apollo Programme'
  - Jan. 04, Other Space Missions
  - Jan. 18, Introduction to Astro-Imaging

# National Events

- BAA Christmas Meeting
  - 14:00-18:00, Saturday, Dec. 10, Institute of Physics, 37 Caledonian Rd., London
    - Gordon McKay, Controversies in Astronomy part 1
    - Simon Kidd, Asteroid Occultations... an observer's view
    - Nick James, Sky Notes
  - booking now open

# 2023 Look Ahead

- A slight partial lunar eclipse on Oct. 28 is the only one visible from the U.K. in 2023 (total four eclipses, two solar, & two lunar)
- Lunar Occultations
  - Jan. 01, 22:35, Uranus grazing a line in South Norfolk, a very close approach over Suffolk
  - May 17, 13:48 daylight graze of Jupiter on a line crossing extreme Northern England, so again a near miss for us
  - Nov. 09, 09:47-10:47, daylight occultation of Venus
- Possible Asteroid Occultation
  - Dec. 12, 01:10-01:20, Betelgeuse, mag 0.5 occulted by 70km $\emptyset$ , 319 Leona, mag 14.2, 13 mag drop, max 6.9 secs.
  - Southern Europe/Caribbean, we might be on the 'edge'?

# 319 Leona & HIP 27989

2023 dec 12 1<sup>h</sup>16.8<sup>m</sup> U.T.

