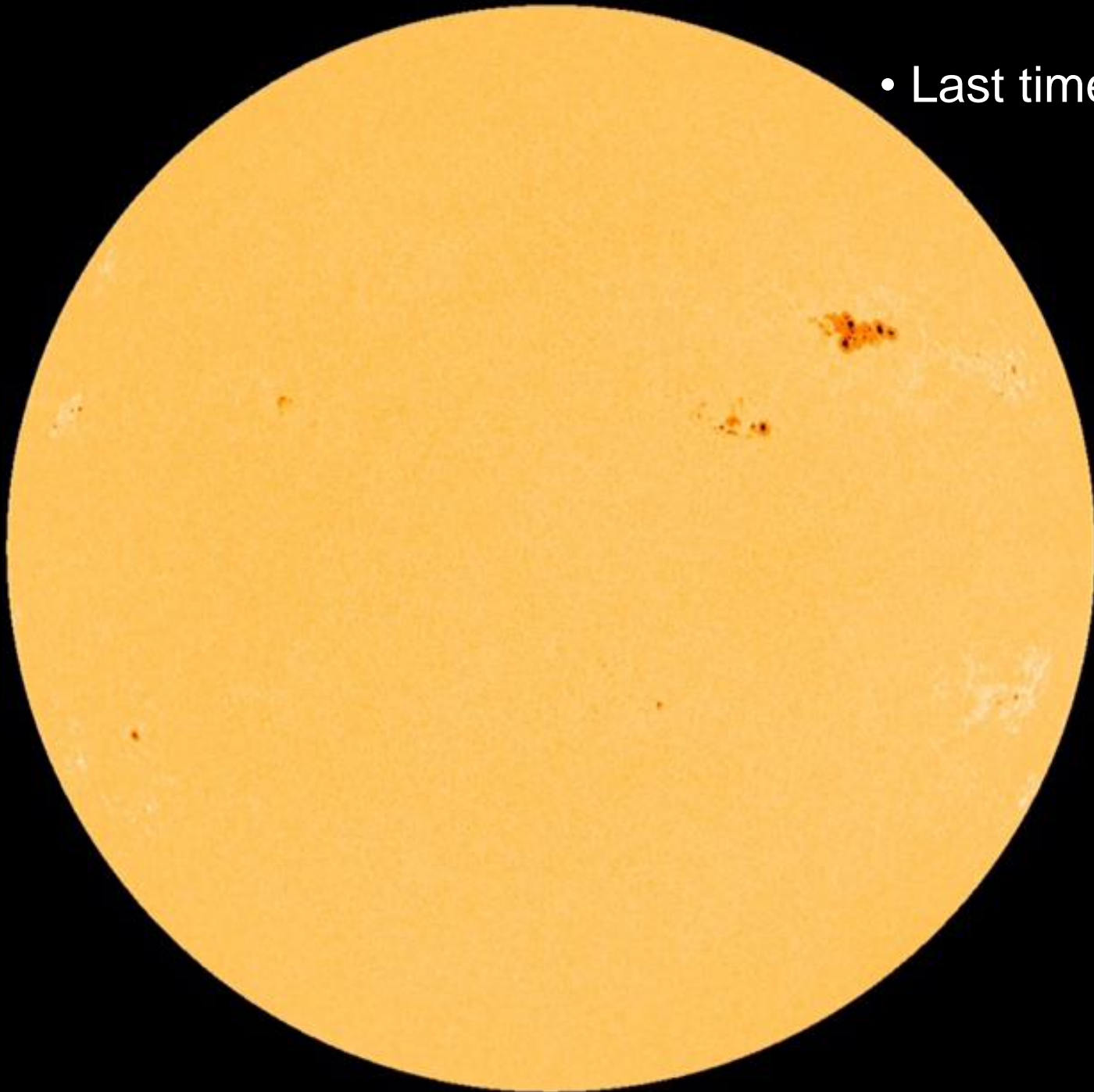


# What's Up?

2022 June 27 to July 25

Bill Barton, FRAS

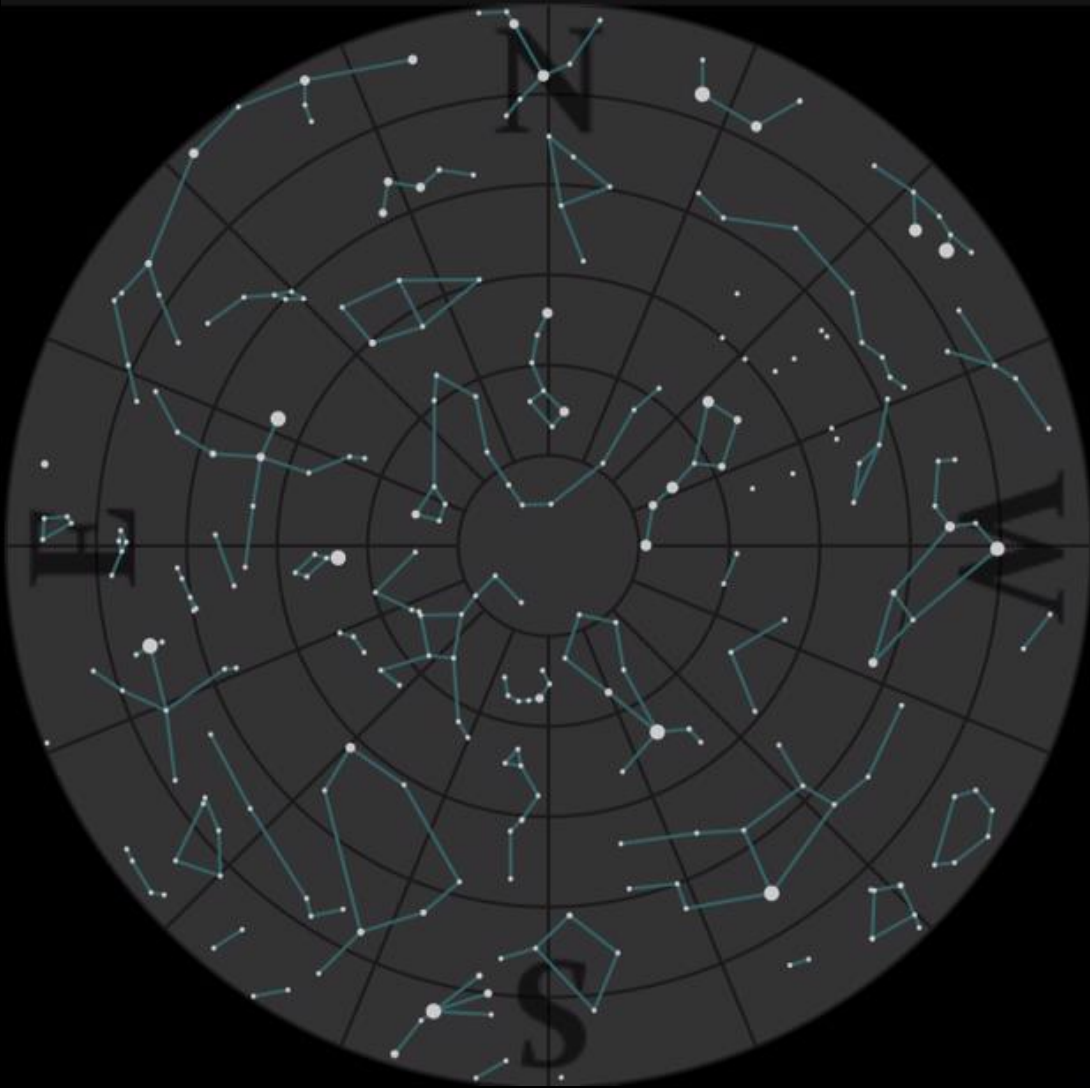
• Last time



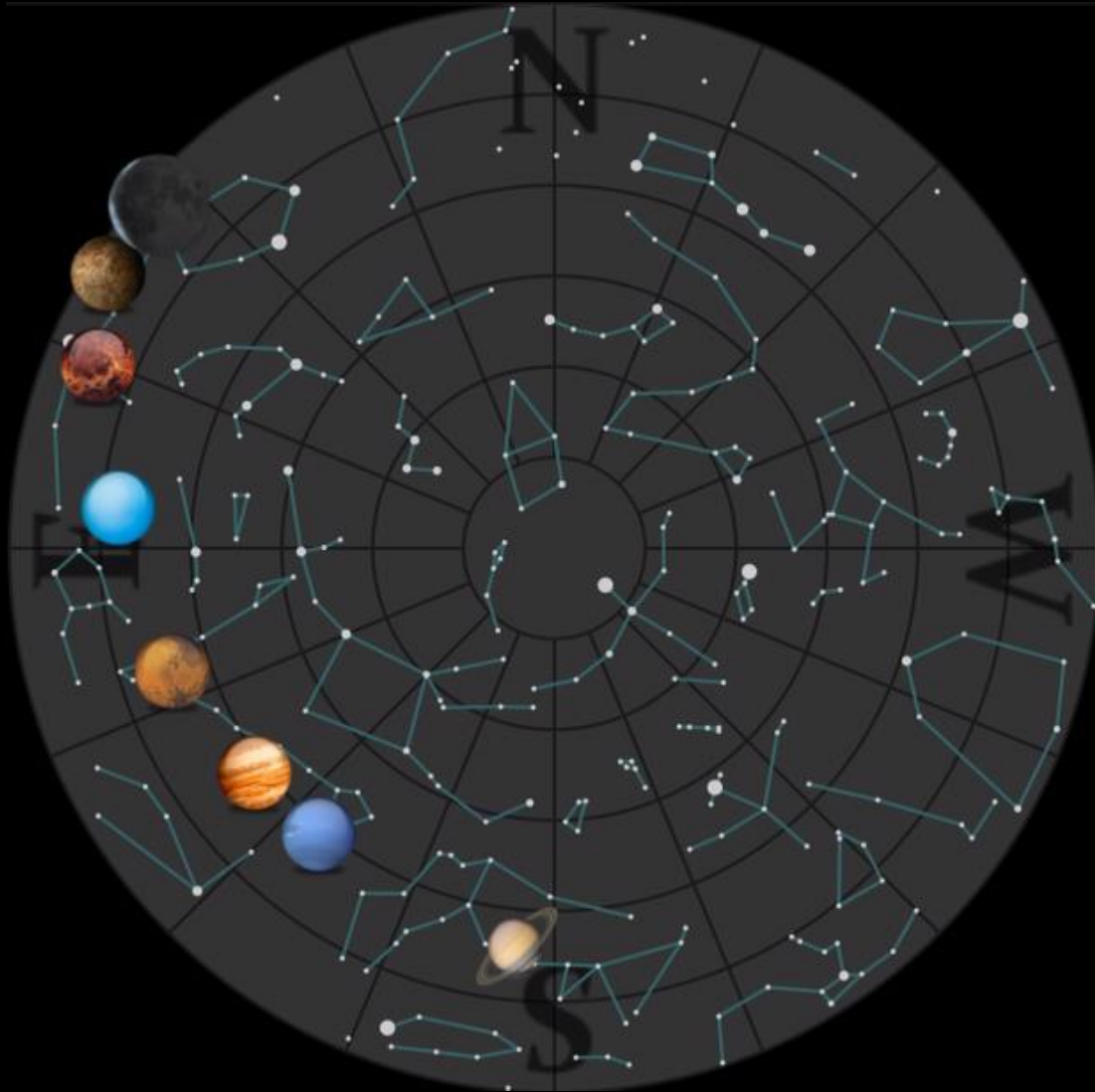
- Today

No image available!

- The Sky 22:00  
Tonight







- The Sky 04:00  
Tomorrow



# Inner Solar System

- Sun
  - Aphelion July 04 (1.0167AU)
- Mercury
  - In morning sky, greatest elongation Jun. 16 ( $23^\circ$  ), currently  $20^\circ$
  - Superior conjunction July 16
  - Good observing opportunity mid-June to early-July
  - Today, rise 03:30, transit 11:30, set 19:30
- Venus
  - In morning sky greatest elongation Mar. 20 ( $47^\circ$  ), currently  $30^\circ$
  - Superior conjunction Oct. 22
  - Today, rise 02:50, transit 10:45, set 18:40

# Earth

- Time
  - 00:00UT  $\approx$  18:20ST today
  - Today, sunrise 04:35, transit 12:55, sunset 21:20
  - End of period, sunrise 05:05, transit 13:00, sunset 20:55
- Moon
  -  New, 29
  -  First Quarter, July 7
  -  Full, 13
  -  Last Quarter, 20
- Meteors
  - Perseids, July 17-August 24, peak Aug. 13, ZHR 80+

# Occultations

- Lunar
  - $\gamma$  Virginis, mag 2.8, July 06, DD 17:35, RB 18:44



# Conjunctions

- Planetary
  - June 30, 05:00, Ceres  $0.1^\circ$  N of Moon
- Opposition
  - July 20, 03:00, Pluto

# Outer Solar System

- Mars
  - Opposition Dec. 08. Today, rise 01:20, transit 08:00, set 14:45
- Jupiter
  - Opposition Sept. 26. Today, rise 00:50, transit 07:00, set 13:15
- Saturn
  - Opposition Aug. 04. Today, rise 23:35, transit 04:25, set 09:10
- Uranus
  - Opposition Nov. 09. Today, rise 02:00, transit 09:30, set 17:10
- Neptune
  - Opposition Sept. 16. Today, rise 00:30, transit 06:20, set 12:00

# OASI Events

- Friday 15 July, 8:00pm, recorded Zoom talk 'Exploring the Solar System in X-rays', Prof Graziella Branduardi-Raymont
- Saturday 23 July, from 1:00pm, OASI Summer Picnic (not BBQ)
- Saturday 30 July, from 10:00am, Solar Outreach at Christchurch Mansion

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - July 24, Solar Outreach, location TBA
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
  - July 12, TBA
- AAA (Whepstead Community Centre, 7:30pm, Wednesdays)
  - July 6 & 20, unknown

# National Events

- British Astronomical Association
  - Webinars,
    - Friday, 01 July, 7:30pm, Prof Jim Madsen, 'Cosmic Neutrinos-Messengers from the Cosmos arriving in Antarctica'
    - Wednesday, 20 July, 7:00pm, to mark the 64<sup>th</sup> anniversary of the first moonwalk (50<sup>th</sup> of the last?) Dr Mark Kidger (ESA) and Juan José Godoy Carrera, 'Backyard Lunar Mineral Prospecting'
- Society for Popular Astronomy
  - Saturday, 30 July, 2:00pm, Gustave Tuck Lecture Theatre, University College London, Gower St, London WC1, Prof Chris Owen (UCL-MSSL), 'The Solar Wind-exploring its origins with ESA's Solar Orbiter Mission'