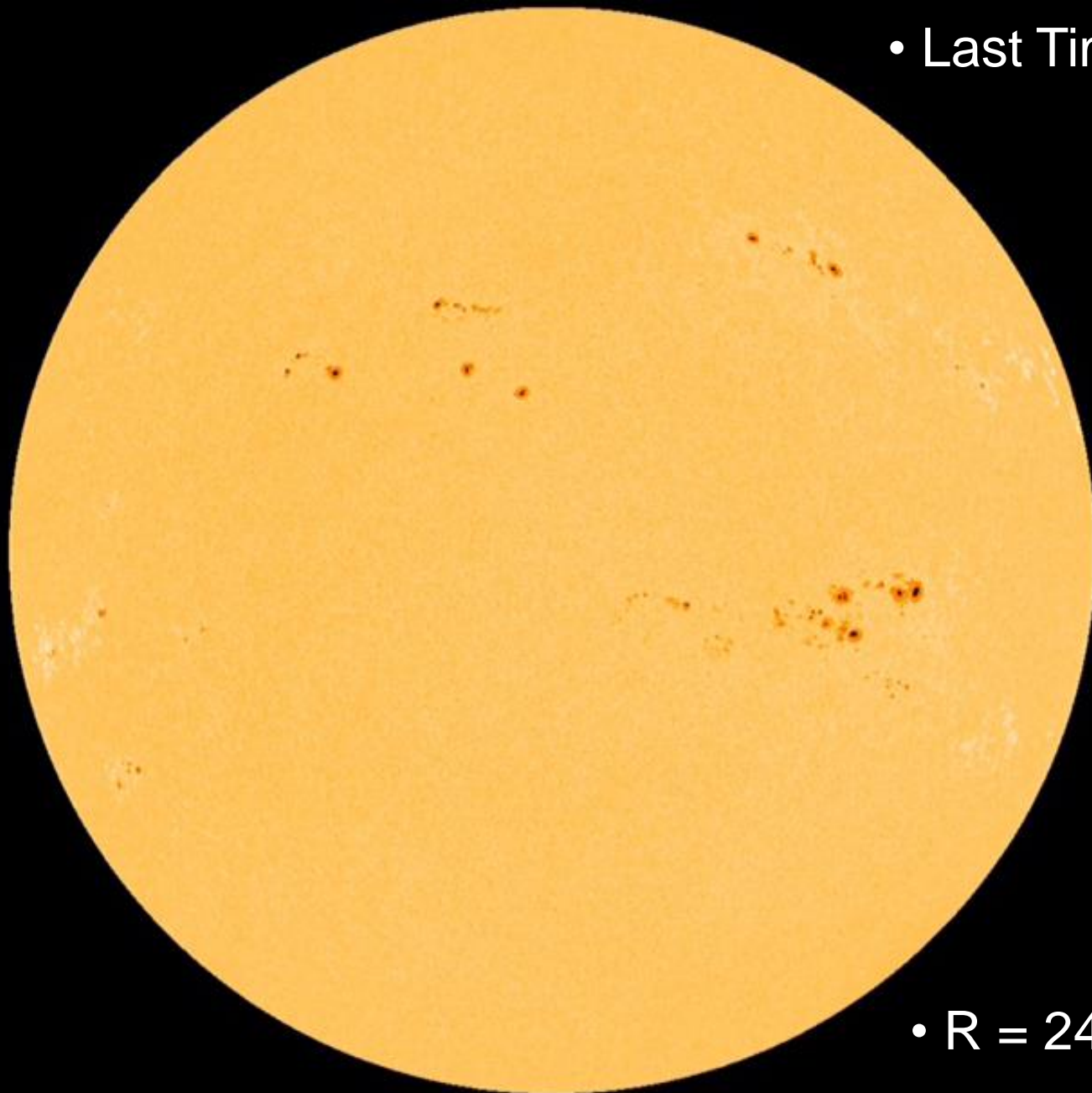


What's Up?

2024 May 27 to June 24

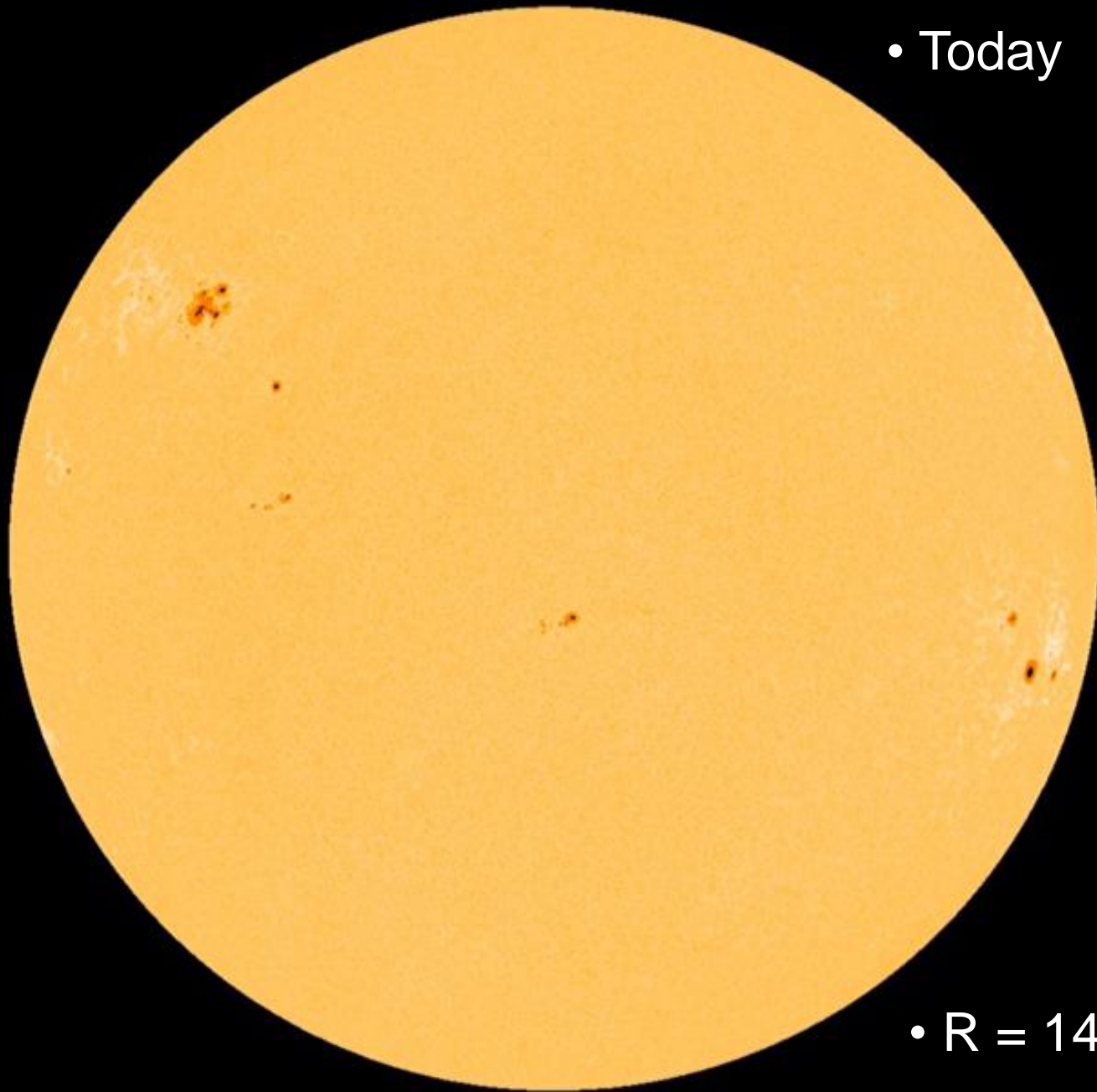
Bill Barton, FRAS

• Last Time



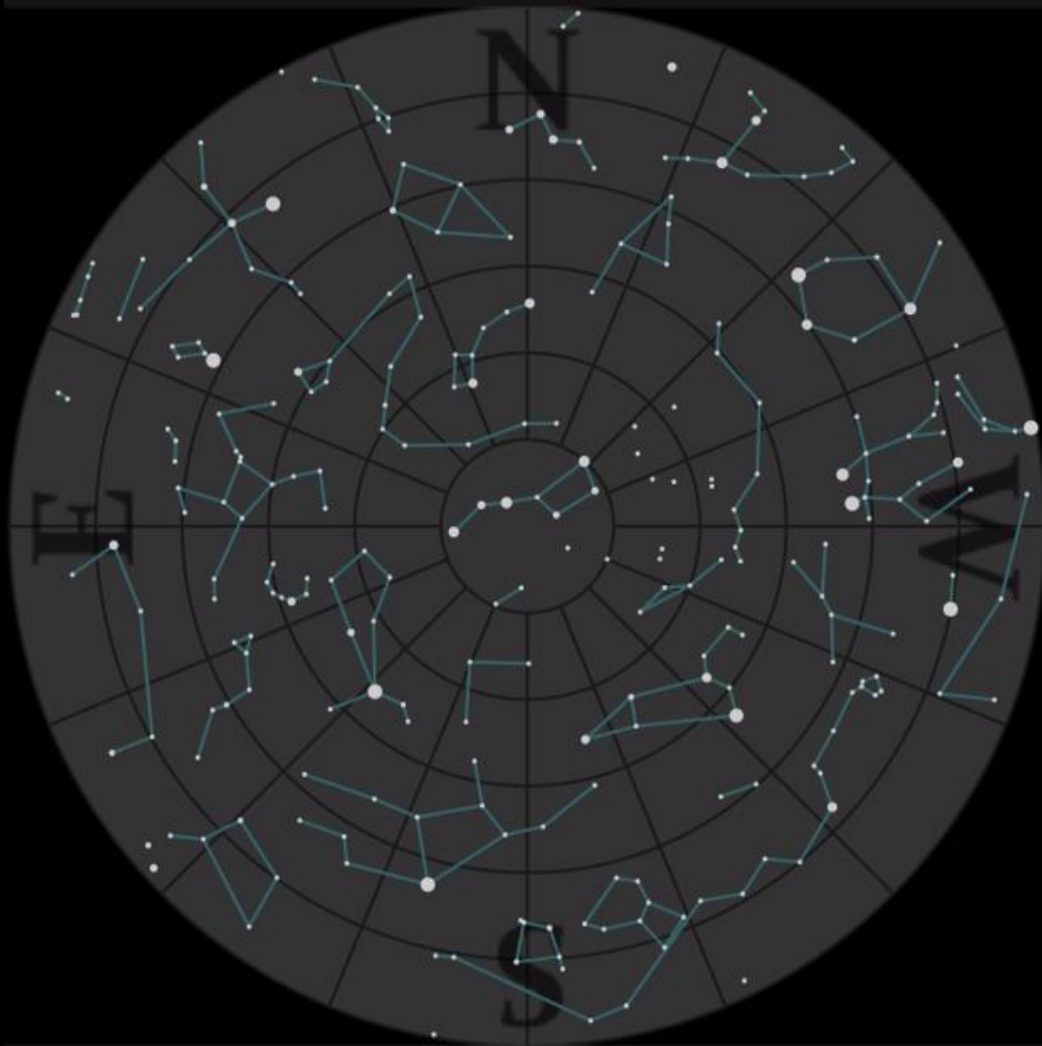
• $R = 240$

• Today

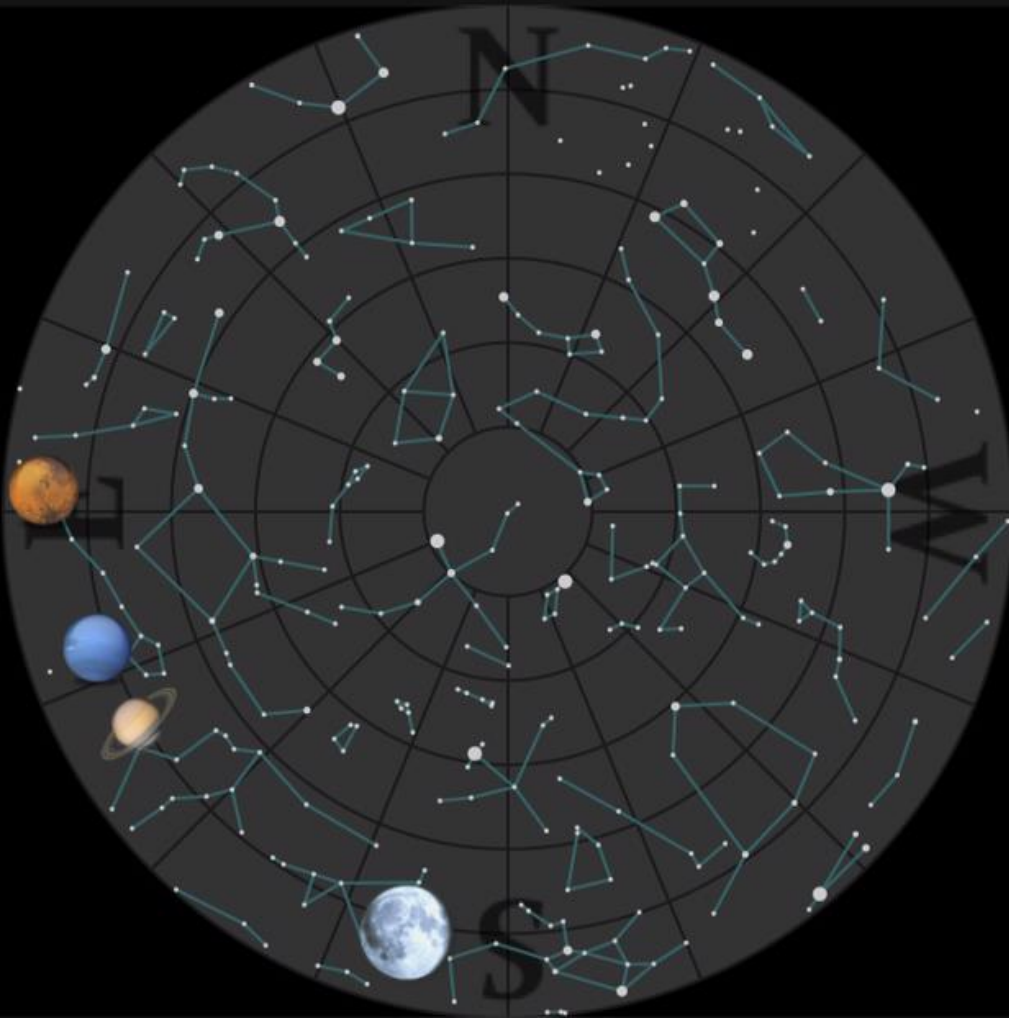


• $R = 148$

- The Sky 21:00
Tonight







- The Sky 04:00
Tomorrow



Inner Solar System

- Sun
 - Declination increasing, solstice Jun. 20, aphelion Jul. 5
 - Last sunspot min., Apr. 2020, next max., now? or 2025?
- Mercury
 - In the morning sky, greatest elongation May 9 (26°), currently 19°
 - Superior conjunction Jun. 14
 - Then in evening sky, greatest elongation July 22 (27°)
 - Today, rise 04:10, transit 11:30, set 19:00
- Venus
 - Also in the morning sky, and currently 2°
 - Superior conjunction, Jun. 04, then greatest elongation east Jan. 04, 2025
 - today, rise 04:40, transit 12:40, set 20:40

Earth

- Time
 - 00:00UT \approx 16:20ST today
 - Today, sunrise 04:40, transit 12:50, sunset 21:00
 - End of period, sunrise 04:30, transit 12:55, sunset 21:20
- Moon
 -  Last Quarter, May 30
 -  New, June 06
 -  First Quarter, June 14
 -  Full, June 22 (Strawberry Moon)
- Meteors
 - None of note this period

Conjunction

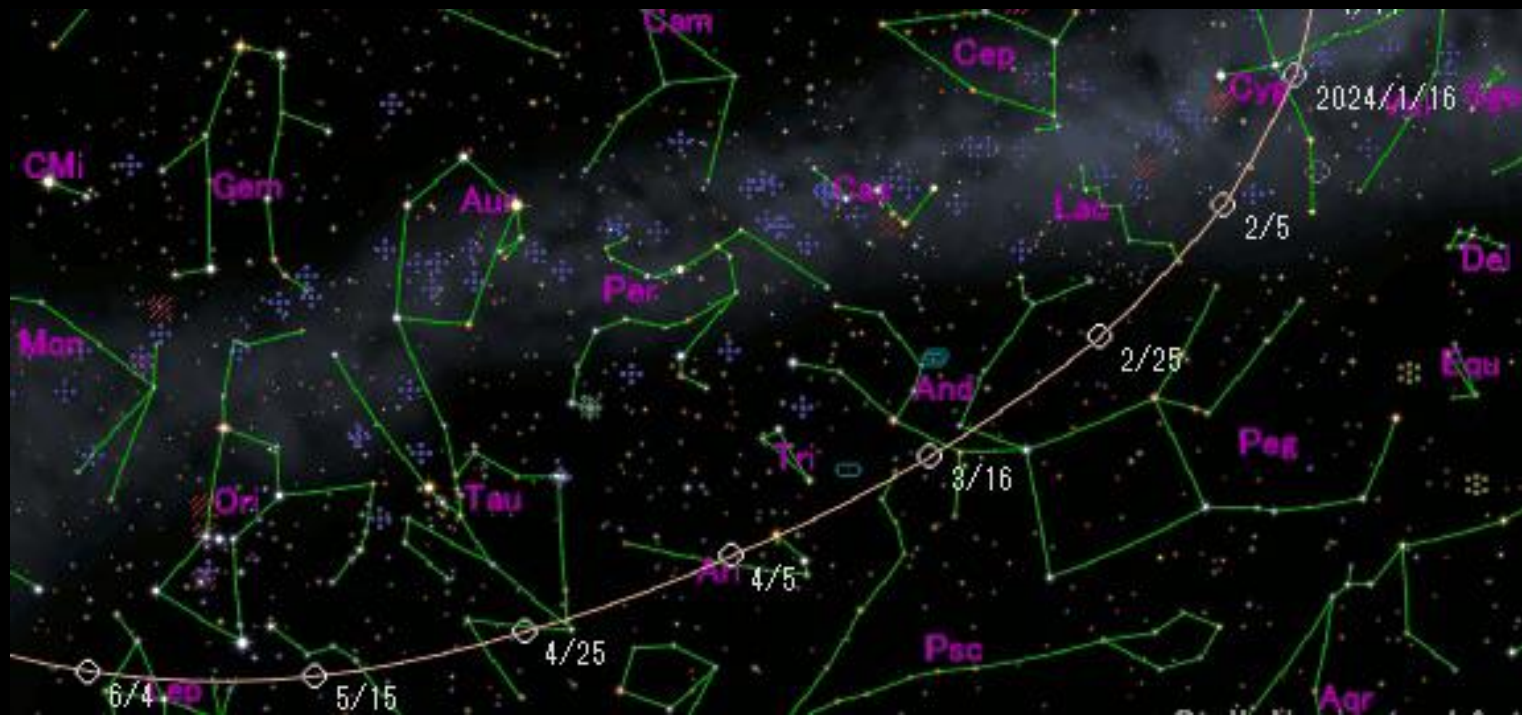
- June 01, 04:00
 - Neptune-Moon 0.02° apart

Outer Solar System

- Mars
 - Conjunction 2023 Nov. 18. Opposition 2025 Jan. 16. Today, rise 03:10, transit 09:45, set 16:25
- Jupiter
 - Conjunction May 18. Opposition Dec. 07. Today, rise 04:30, transit 12:20, set 20:15
- Saturn
 - Conjunction Feb. 28. Opposition Sept. 08. Today, rise 02:15, transit 07:50, set 13:20
- Uranus
 - Conjunction May 13. Opposition Nov. 17. Today, rise 04:10, transit 11:55, set 19:40
- Neptune
 - Conjunction Mar. 17. Opposition Sept. 21. Today, rise 02:30, transit 08:30, set 14:30

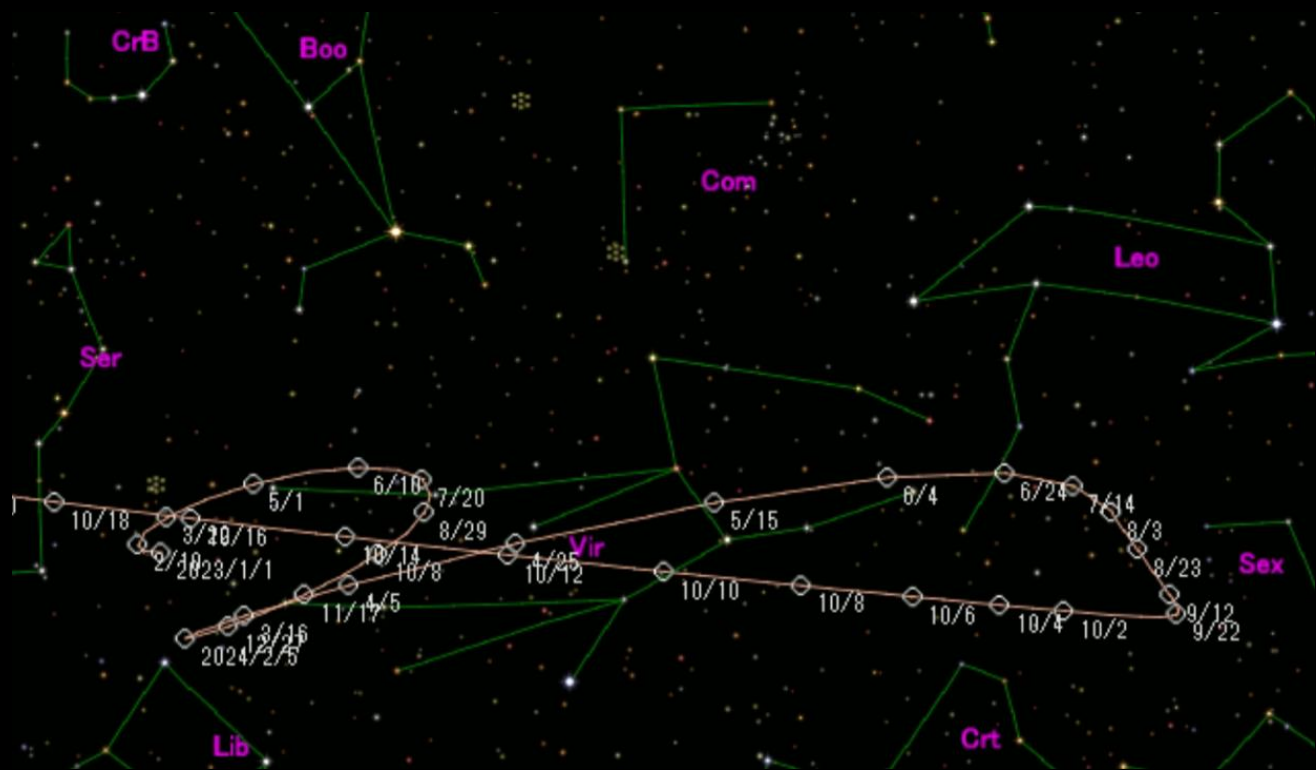
Comet I

- 12P/Pons-Brooks
 - Perihelion, Apr. 21
 - Perigee, Jun. 2, 1.5au, mag. 4.5?



Comet II

- C/2023 A3 (Tsuchinshan-ATLAS)
 - Perihelion, Sept. 27 (0.39au)
 - Perigee, Oct. 12 (0.47au, 184 LD), mag. -0.2?



OASI Events

- Zoom Committee Meeting
 - Friday May 31, from 8:00pm
- Monthly Zoom Meeting
 - Thursday June 20, from 8:00pm
- Solar Outreach Meetings
 - Saturday June 08, 10:00am-4:00pm, Christchurch Mansion
 - Sunday June 16, from 09:30am, East Suffolk Wireless Revival, Kirton Recreation Ground
 - Saturday June 22, 12:00m-6:00pm, Mendlesham Village Fayre

Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
 - June 09, solar observing session, Huntingfield, Halesworth
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
 - No information
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
 - June 05, The Kuiper Belt & The Oort Cloud + Isaac Newton's Astronomy
 - June 19, Hawkins Black Holes & The Edge of Physics, Paul Fellows, Chair CAA
- DAG (Diss)
 - Informal on FaceBook

National Society Event I

- BAA Meeting
 - Wednesday June 05, 5:00pm-8:00pm, IoP, 37 Caledonian Rd., London, N1 9BU
 - Bill Leatherbarrow, 'Making an Impact: the Craters of the Moon'
 - Peter East, Amateur Detection of Radio Pulsars
 - Tim Parsons, Skynotes

National Society Event II

- Webb Society AGM
 - Saturday June 15, from 09:30, IoA, Madingley Rd., Cambridge, CB3 0HA
 - Jim Latham, Exploring the Limits of Visual Galaxy Observation
 - Paul Howat, Campervan Astrophotography in Portugal
 - Mike Leggett, Star Colours from W H Smyth to E I Essam
 - Tatyana Reid, What Do You Want to Observe?
 - Prof. Jan Forbrich, The Orion Radio All-Stars
 - trade stands
 - entry fee applies (£12/&17), lunch available (£18/£23)

National Society Event III

- SHA Summer Picnic
 - Friday June 21, from 10:30, Temple Observatory, Rugby School

Cometary Brightness

- Formula
 - $m_1 = H + 5\log_{10}\Delta + 2.5n\log_{10}r$
 - m_1 , comet apparent magnitude
 - H , comet 'absolute' magnitude
 - Δ , Earth-comet distance
 - r , Sun-comet distance
 - '5', '2.5' & 'n' are not certain! (n in the range 2 - 4)
- Reference
 - A&G vol 42, issue 1, p.1.11-12

