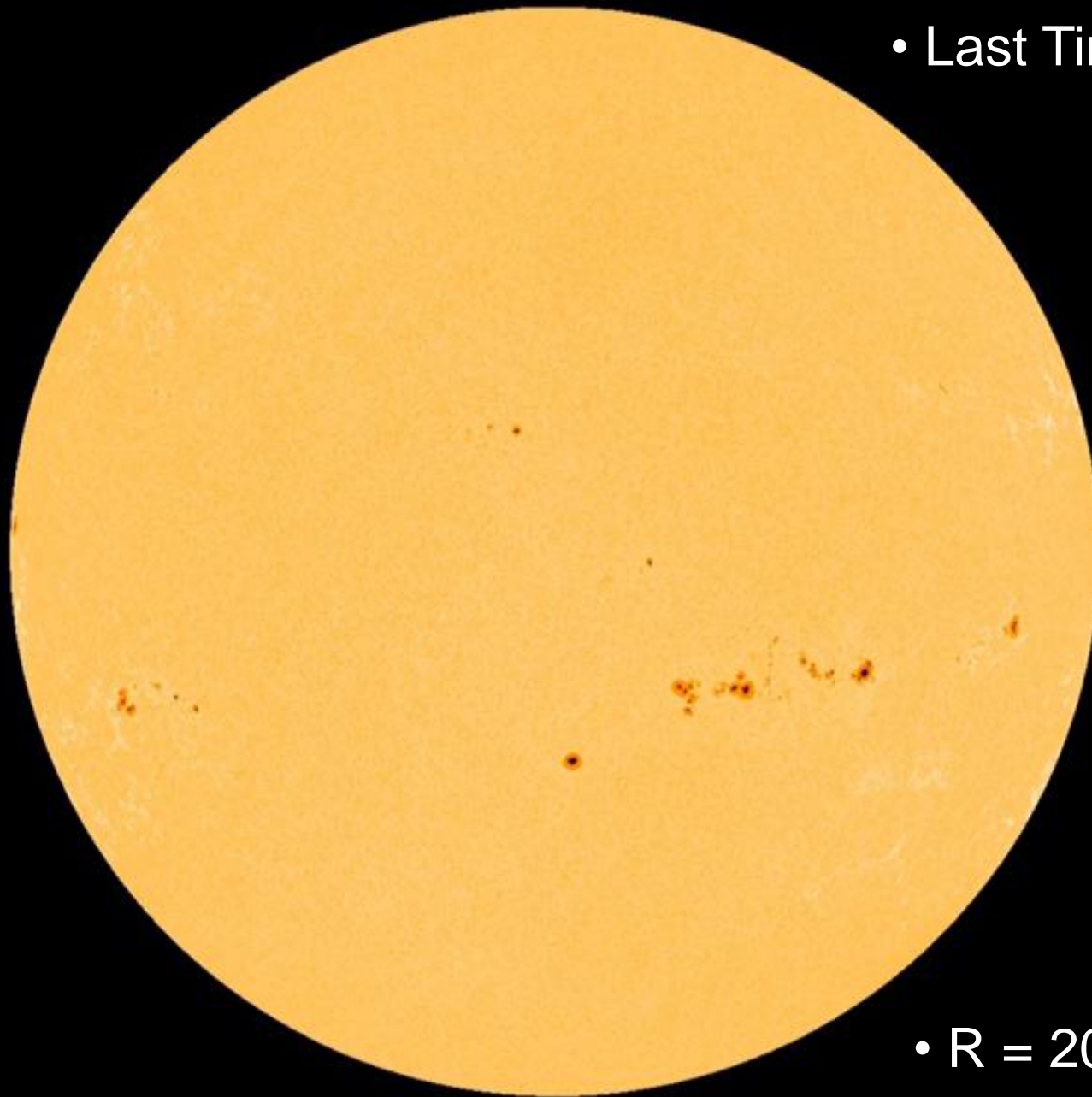


# What's Up?

2024 August 26 to September 23

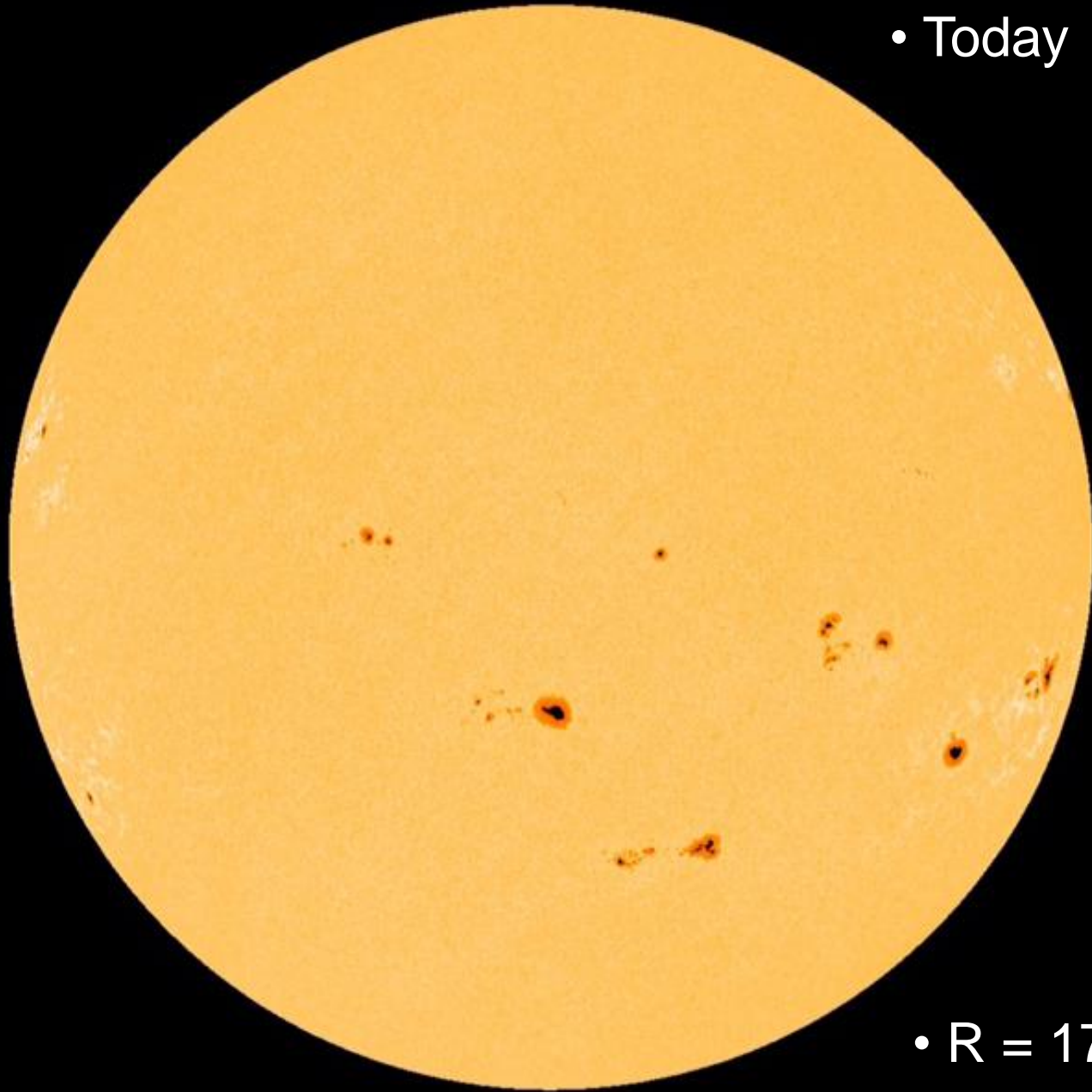
Bill Barton, FRAS

• Last Time



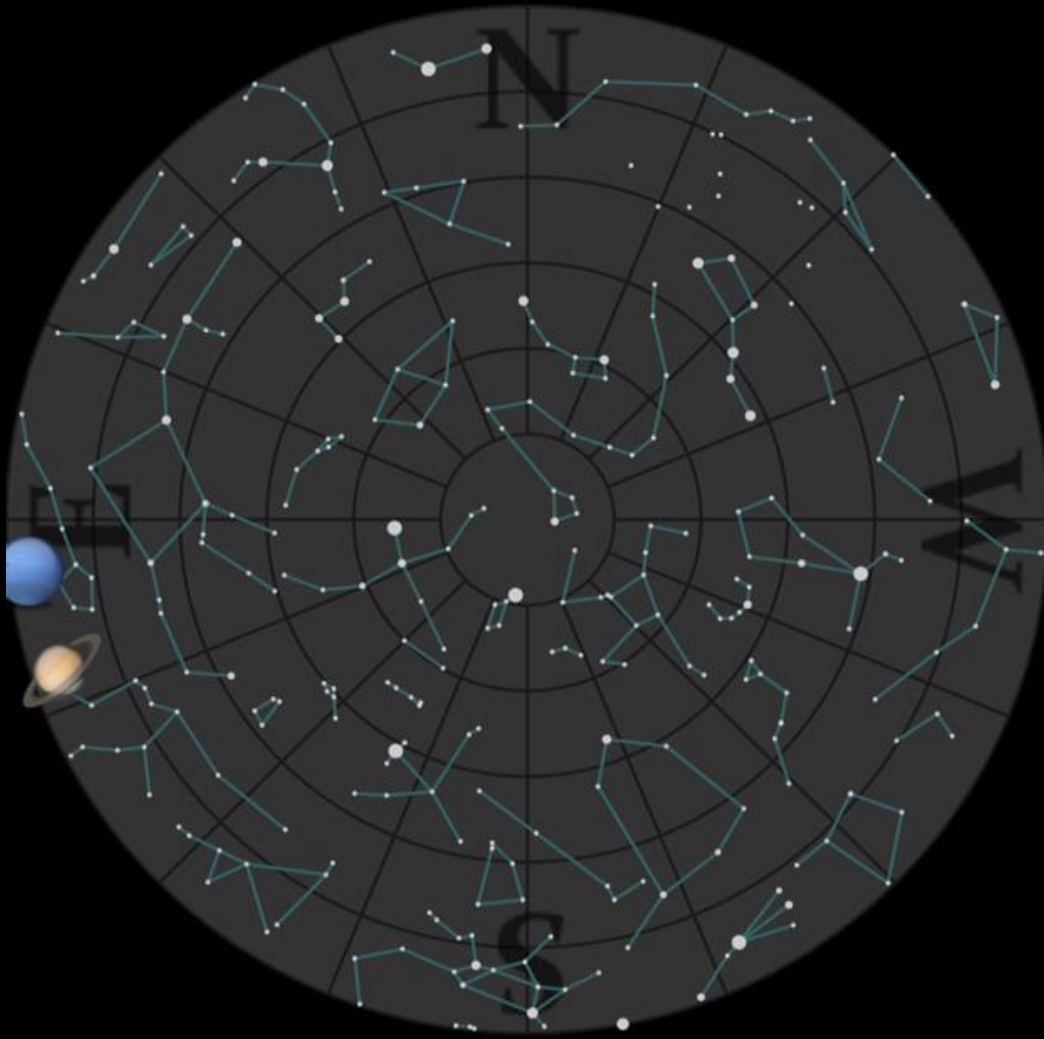
•  $R = 200$

• Today

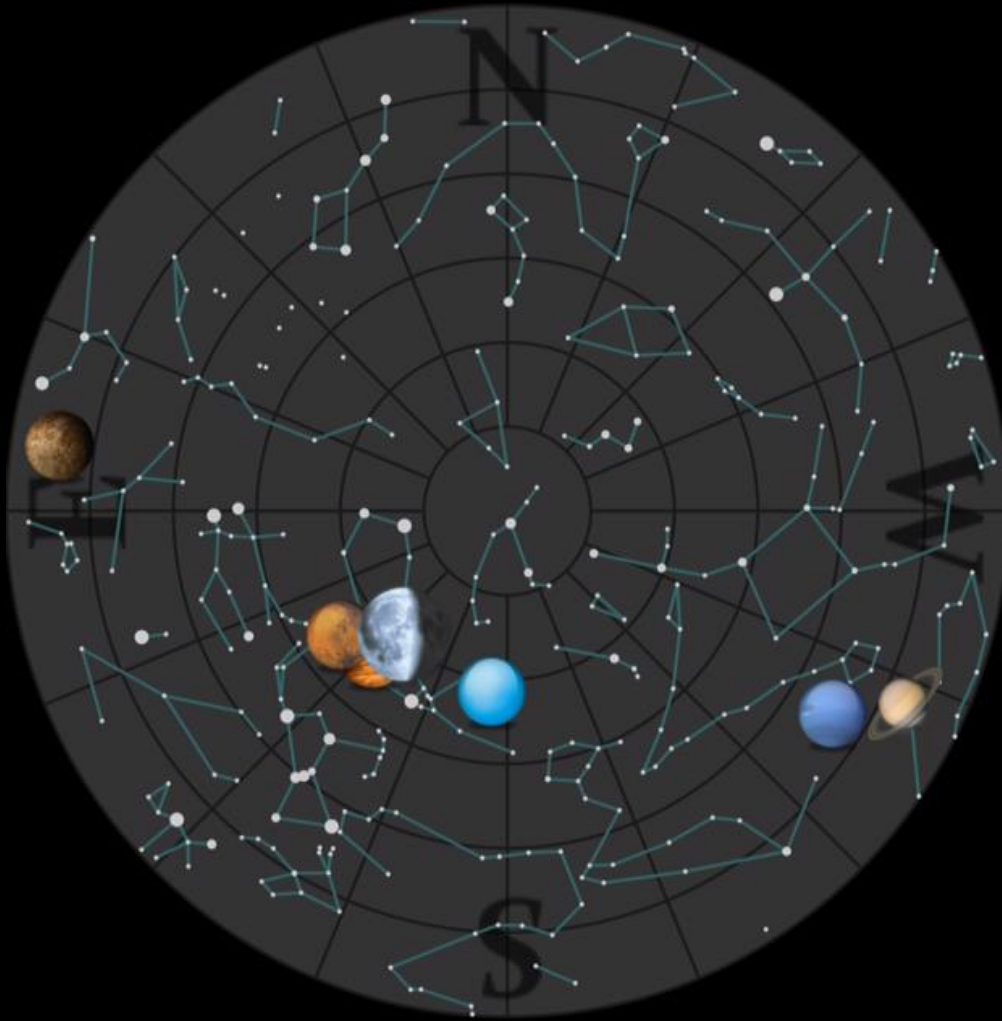


•  $R = 172$

- The Sky 21:00  
Tonight







- The Sky 06:00  
Tomorrow



# Inner Solar System

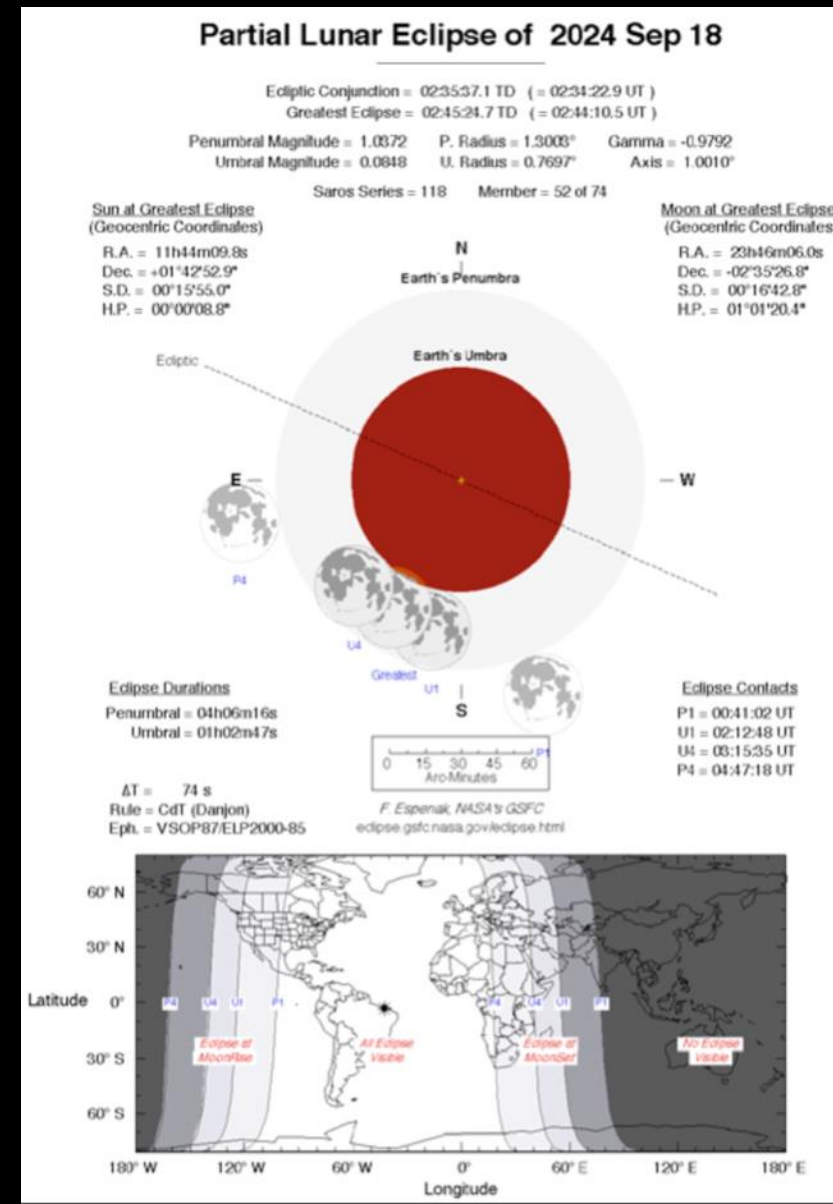
- Sun
  - Declination decreasing, equinox September 22, solstice December 21
  - Last sunspot min., Apr. 2020, next max., now? or 2025?
- Mercury
  - Inferior conjunction was on August 19
  - In the morning sky, with greatest elongation on September 05 ( $18^\circ$ ), currently  $12^\circ$ , mag +2, increasing
  - Today, rise 05:00, transit 12:05, set 19:10
  - 'Good observing opportunity'
- Venus
  - In the evening sky, greatest elongation January 10, 2025, currently  $22^\circ$ , next inferior conjunction March 23, 2025
  - today, rise 08:00, transit 14:20, set 20:35

# Earth

- Time
  - 00:00UT  $\approx$  22:20ST today
  - Today, sunrise 05:55, transit 12:55, sunset 19:55
  - End of period, sunrise 06:40, transit 12:45, sunset 18:50
- Moon
  -  Last Quarter, 26 (today)
  -  New, September 03
  -  First Quarter, 11
  -  Full, 18 (Harvest Moon) + slight partial eclipse
- Meteors
  - None of note this period

# Eclipse

- Wednesday, September 18
  - Slight partial
    - Moonrise 19:00 (17<sup>th</sup>)
    - Sunset 19:05 (17<sup>th</sup>)
    - transit 00:45
    - first contact 03:13
    - maximum obscuration 8%
    - last contact 04:16
    - civil twilight start 06:00
    - Sunrise 06:30
    - Moonset 06:45
- followed by an annular solar eclipse
  - October 02 (not visible from UK)
- Subsequent eclipses
  - March 14 (L) & 29 (S), 2025





# Outer Solar System

- Mars
  - Conjunction 2023 November 18. Opposition 2025 January 16. Today, rise 23:50, transit 08:00, set 16:25
- Jupiter
  - Opposition December 07. Conjunction June 24, 2025. Today, rise 23:30, transit 07:40, set 15:50
- Saturn
  - Opposition September 08. Conjunction March 12, 2025. Ring plane crossing March 23, 2025. Today, rise 22:20, transit 01:45, set 07:15
- Uranus
  - Opposition November 17. Conjunction May 17, 2025. Today, rise 22:20, transit 06:10, set 14:00
- Neptune
  - Opposition September 21. Conjunction March 19, 2025. Today, rise 20:30, transit 02:30, set 08:30

# OASI Events

- Zoom Meeting
  - Thursday September 19, from 8:00pm
- Zoom Committee Meeting
  - Friday September 20, from 8:00pm

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - September 8, observing meeting
  - September 15, lecture meeting
  - Saturday 21 & Sunday 22 September, Henham Steam Rally
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
  - No information
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
  - August 28, Messier Objects, NGC Objects & the Red Shift
  - September 11, Dr Matt Bothwell, 'The Case For Dark Matter'
- DAG (Diss)
  - Informal on FaceBook
  - Saturday 14 September, Glide & Gaze, Tibenham Airfield

# National Event

- Gresham Lecture
  - Wednesday September 11, 7:00pm, Conway Hall, 25 Red Lion Street, London, WC1R 4RL
  - 'A Mirror in the Sky', Prof Chris Lintott
    - free entry or online, booking required
    - <https://www.gresham.ac.uk/whats-on/mirror-sky>

