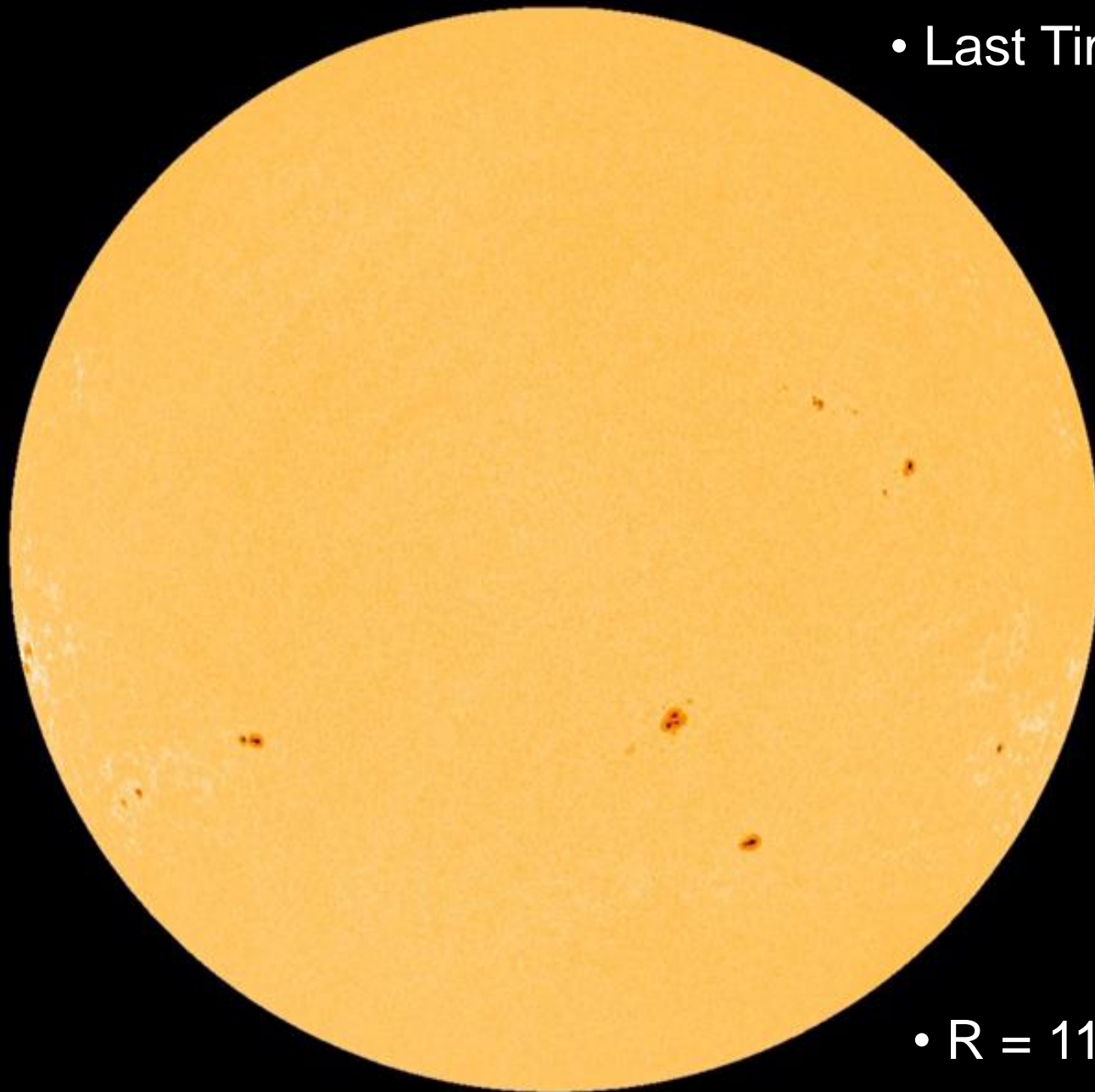


# What's Up?

2024 October 28 to November 25

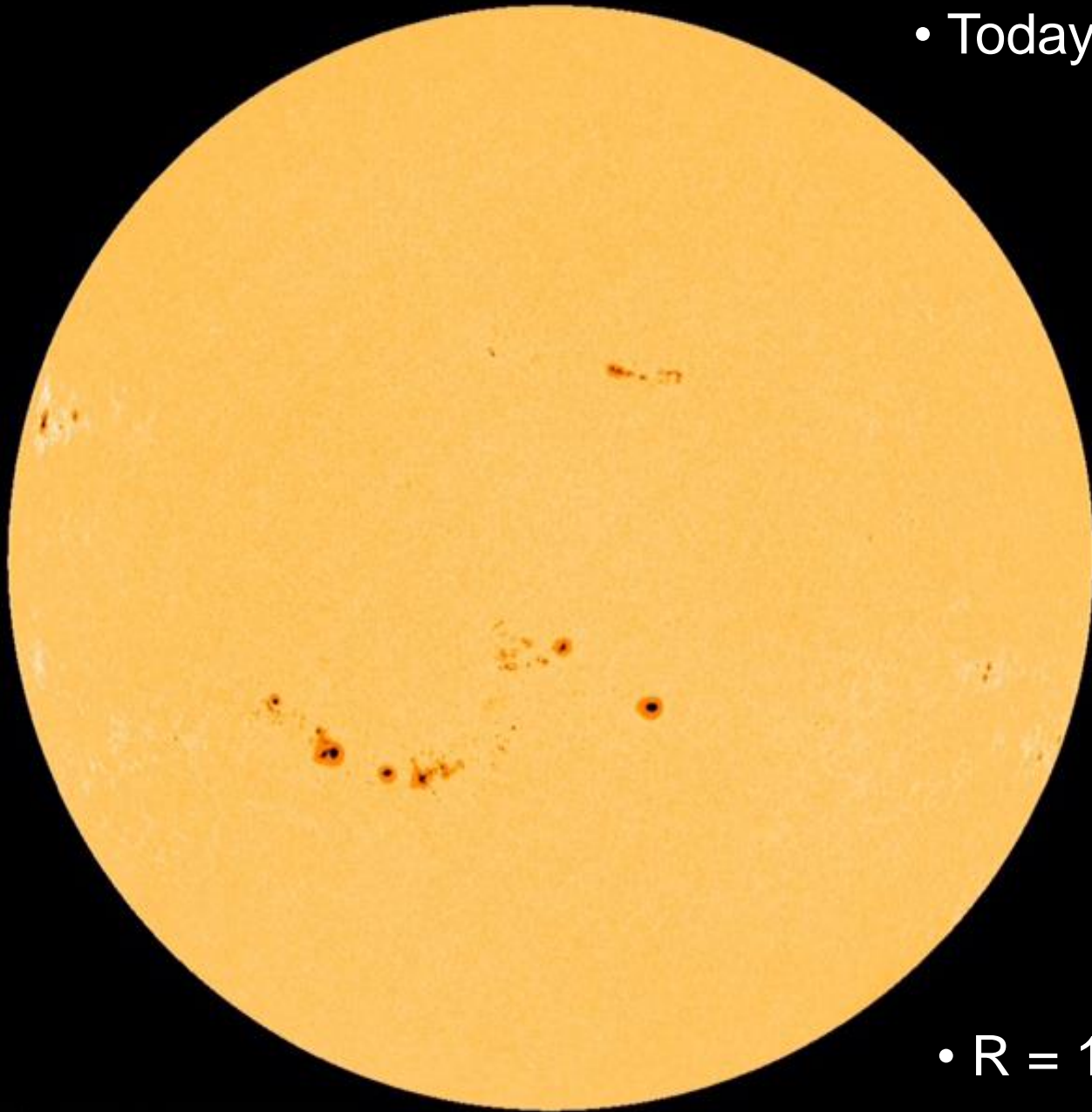
Bill Barton, FRAS

• Last Time



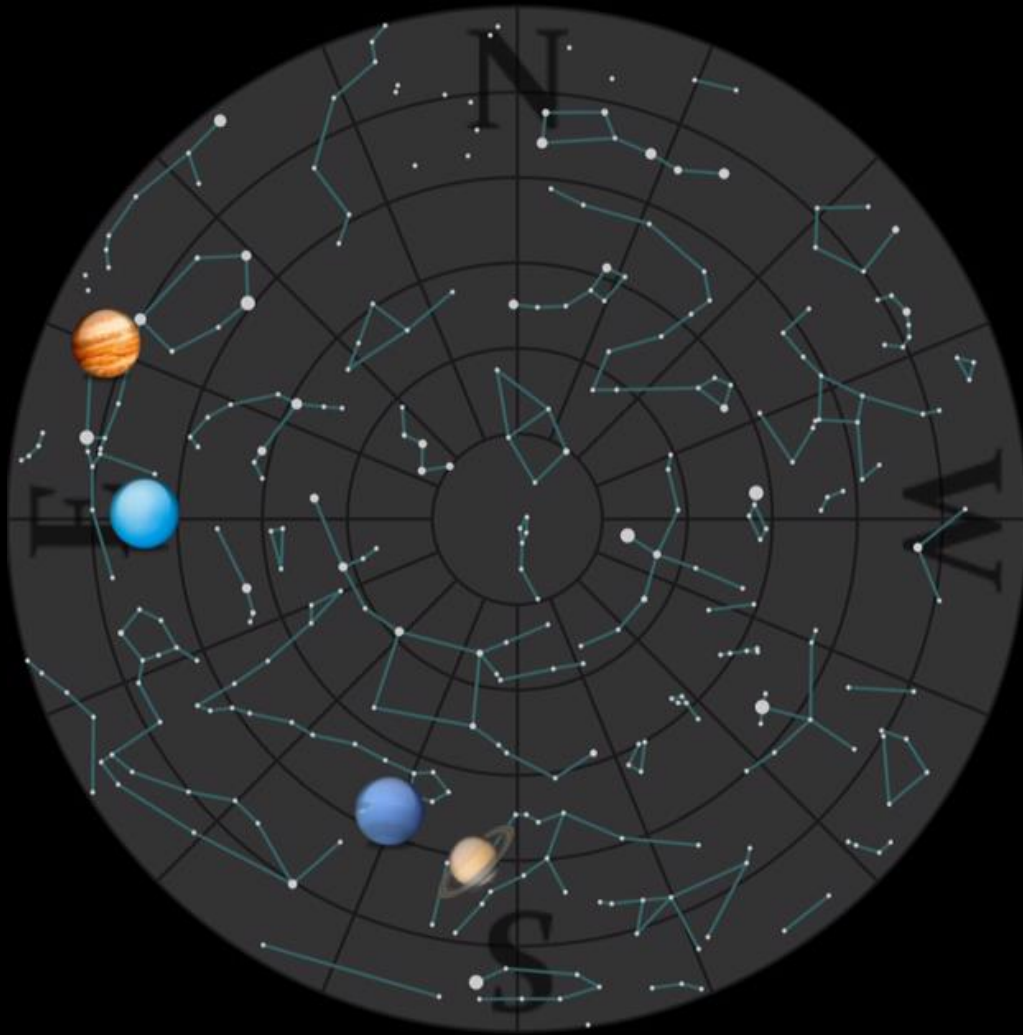
• R = 114

• Today

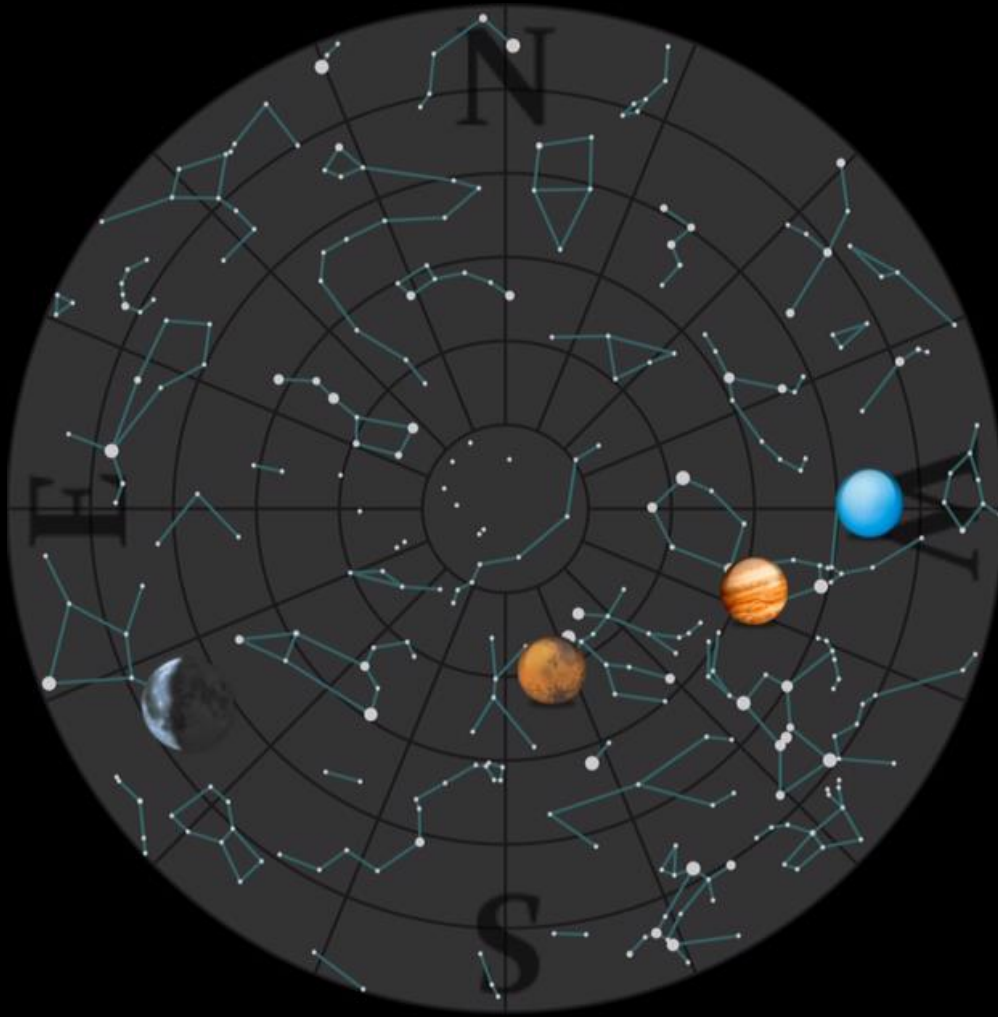


• R = 198

- The Sky 20:00  
Tonight







- The Sky 06:00  
Tomorrow



# Inner Solar System

- Sun
  - Declination decreasing, solstice December 21, perihelion January 04, 2025
  - Last sunspot min., Apr. 2020, next max., now? or 2025?
- Mercury
  - Superior conjunction was on September 30
  - Now in evening sky with greatest elongation on Nov. 16 ( $23^\circ$  ), currently,  $17^\circ$
  - Inferior conjunction, December 06
  - Today, rise 08:25, transit 12:40, set 16:55
- Venus
  - In the evening sky, greatest elongation January 10, 2025 ( $47^\circ$  ) currently  $37^\circ$  , followed by inferior conjunction March 23, 2025
  - today, rise 10:20, transit 14:10, set 17:55

# Earth

- Time
  - 00:00UT  $\approx$  02:30ST today
  - Today, sunrise 06:40, transit 11:40, sunset 16:30
  - End of period, sunrise 07:30, transit 11:40, sunset 15:50
- Moon
  -  New, November 01
  -  First Quarter, 09
  -  Full, 15 (Frost Moon)
  -  Last Quarter, 23
- Meteors
  - Leonids, November 06-30, peak 17, ZHR = 15

# Conjunction

- November 11, 02:00
  - Saturn-Moon  $0.09^\circ$  apart



# Outer Solar System

- Mars
  - Conjunction 2023 November 18. Opposition 2025 January 16. Today, rise 21:15, transit 05:25, set 13:30
- Jupiter
  - Opposition December 07. Conjunction June 24, 2025. Today, rise 18:30, transit 02:45, set 11:00
- Saturn
  - Opposition September 08. Conjunction March 12, 2025. Ring plane crossing March 23, 2025. Today, rise 15:00, transit 20:20, set 01:40
- Uranus
  - Opposition November 17. Conjunction May 17, 2025. Today, rise 17:10, transit 01:00, set 08:50
- Neptune
  - Opposition September 21. Conjunction March 19, 2025. Today, rise 15:25, transit 21:15, set 03:00

# OASI Event

- Zoom Meeting
  - Thursday November 21, from 8:00pm

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - November 03, observing meeting
  - November 17, lecture meeting, 'The Very Early Universe & the Theory of Inflation', Clive Goldsmith
  - November 22-23, Outreach Meeting at National Trust, Dunwich
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
  - No information
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
  - November 06, Albert Einstein's Astronomy
  - November 20, The UK Space Industry
- DAG (Diss)
  - Informal on FaceBook & WhatsApp

# National Society Event

- BAA AGM
  - Wednesday October 30, 5:00pm-8:00pm, Institute of Physics, 37 Caledonian Rd., London, N1 9BU
    - 'Carbon Dioxide Levels, Global Warming, and Amateur Astronomers: Making a Difference', Stephen Cookson
    - 'Telescopes of the Future', David Arditti, Presidential Address
- RAZoom
  - Friday November 08, 7:30pm, Radio Astronomy Meeting via Zoom
    - 'Binary Stars and Stellar Cannibalism', Dr Noel Castro-Segura, Warwick University