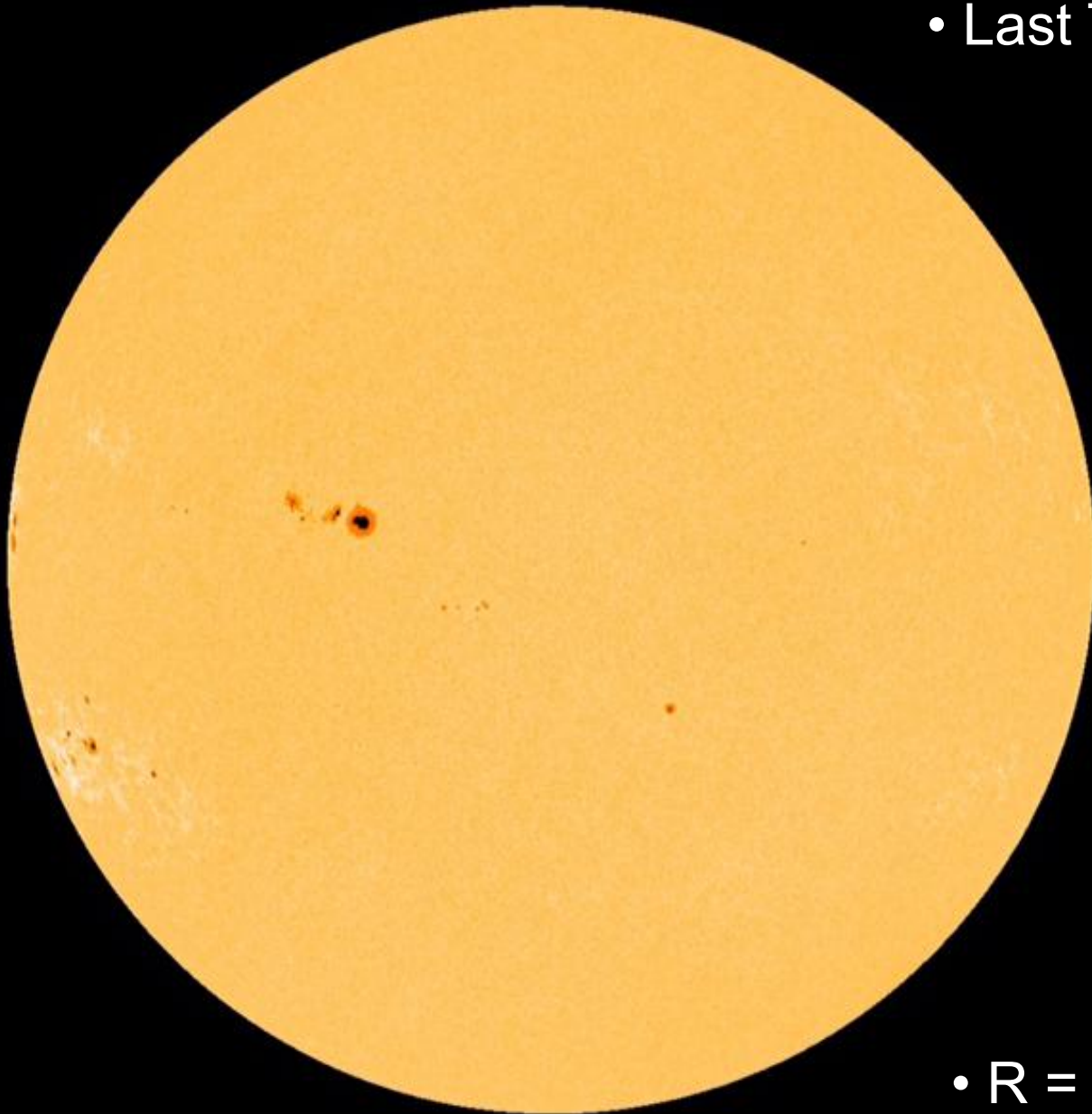


# What's Up?

2025 September 22 to October 27

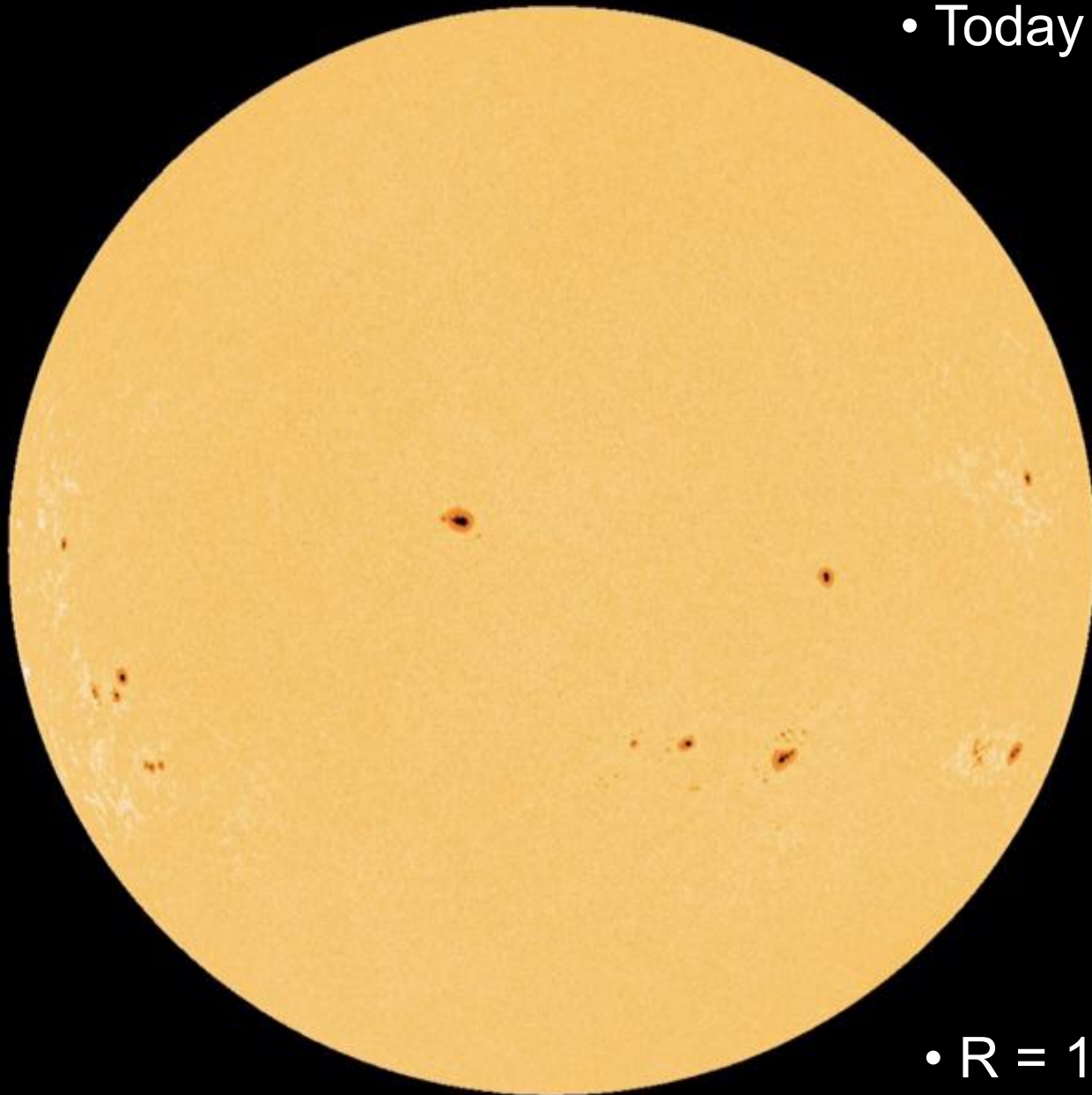
Bill Barton, FRAS

- Last Time



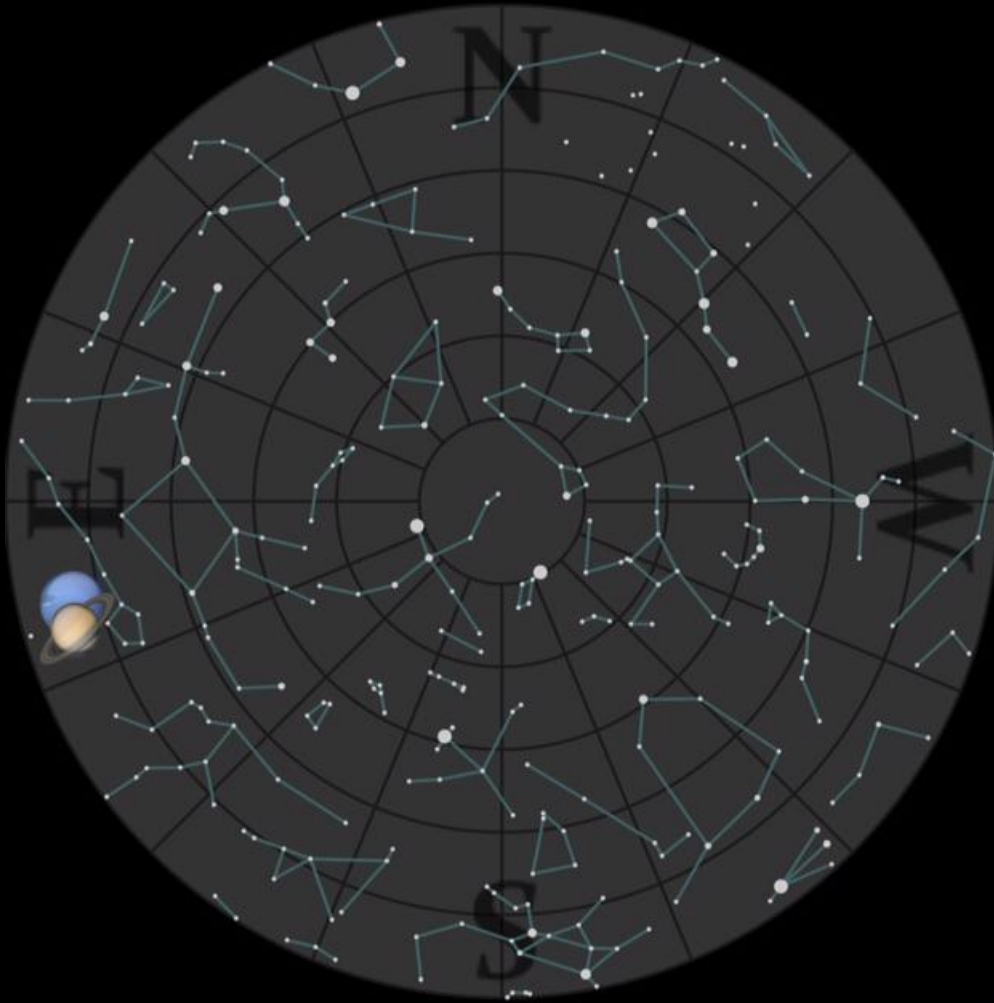
- $R = 102$

• Today

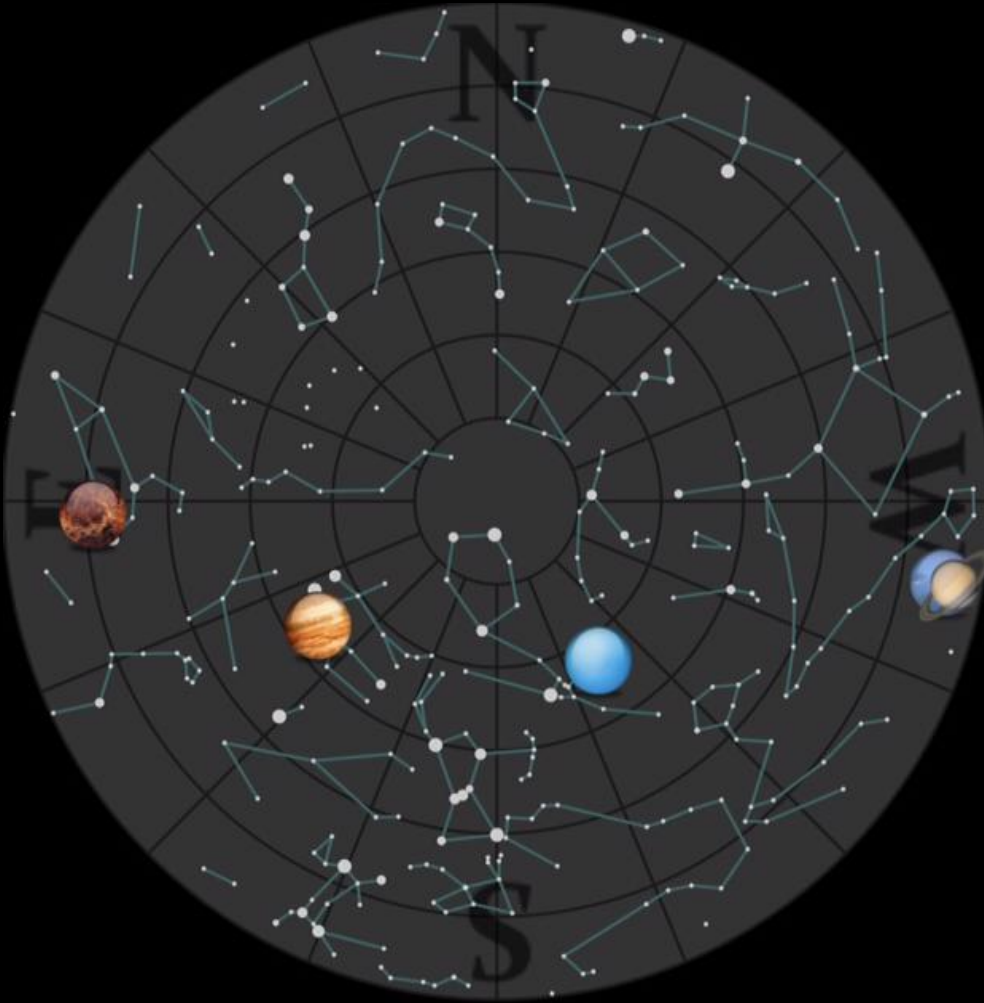


•  $R = 157$

- The Sky 20:00  
Tonight







- The Sky 06:00  
Tomorrow



# Inner Solar System

- Sun
  - Declination decreasing, Equinox September 22 (today), Solstice December 21
  - Last sunspot min., Apr. 2020, max., now?
- Mercury
  - Superior conjunction September 13
  - In the evening sky, greatest elongation October 29 ( $24^\circ$  ), currently  $8^\circ$
  - Today, rise 07:15, transit 13:10, set 19:05
- Venus
  - In the morning sky, greatest elongation May 31, ( $46^\circ$  ) currently  $25^\circ$
  - Superior conjunction January 06, 2026
  - today, rise 04:05, transit 11:10, set 18:10

# Earth

- Time
  - 00:00UT  $\approx$  00:10ST today
  - Today, sunrise 06:40, transit 12:45, sunset 18:50
  - End of period, sunrise 06:40, transit 11:40, sunset 17:40
  - BST ends 01:00, October 26
- Moon
  -  First Quarter, September 29
  -  Full, October 07 ('Hunters' Moon)
  -  Last Quarter, October 13
  -  New, October 21
- Meteors
  - The Orionid shower peaks on October 20-21, ZHR = 20+

# Outer Solar System

- Mars
  - Conjunction January 09, 2026. Today, rise 09:35, transit 14:40, set 19:40
- Jupiter
  - Conjunction June 24, opposition January 10, 2026. Today, rise 00:10, transit 08:20, set 16:30
- Saturn
  - Opposition September 21. Today, rise 19:00, transit 00:45, set 06:30
- Uranus
  - Opposition November 21. Today, rise 20:45, transit 04:45, set 12:40
- Neptune
  - Opposition September 23. Today, rise 18:55, transit 00:50, set 06:45

# OASI Events

- Monday October 20, from 20:00
  - 'The Invisible Universe, from Supernova to Black HolesBlack Holes' pre-recorded Zoom talk by Dr Matt Bothwell
- Friday/Saturday October 24/25
  - Open weekend at Orwell Park, set up from 19:30?

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - October 05, 'Defunct Constellations', Mike Poxon
  - October 19, observing meeting
- SAS (Cavendish Memorial Hall, 7:30pm, Tuesdays)
  - October 07, Solar Eclipses and Where to go in 2026 & 2027, Glynn Parsley
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
  - October 01, AGM & Quiz
  - October 15, Introduction to Practical Astronomy
- DAG (Diss)
  - Informal on FaceBook & WhatsApp

# Interstellar Comet

- 3I/ATLAS
  - C/2025 N1 (ATLAS)
  - Discovered, 1 July 2025, 4.5AU, +18 mag
  - Size, 0.2 to 3½ miles diameter
- Perihelion, 29 October 2025, 1.4AU
- Perigee, 19 December 2025, 1.8AU
- best 'seen' September? magnitude +11.5?
- Previous objects
  - 1I ('Oumuamua), 2017, &
  - 2I (Borisov), 2019