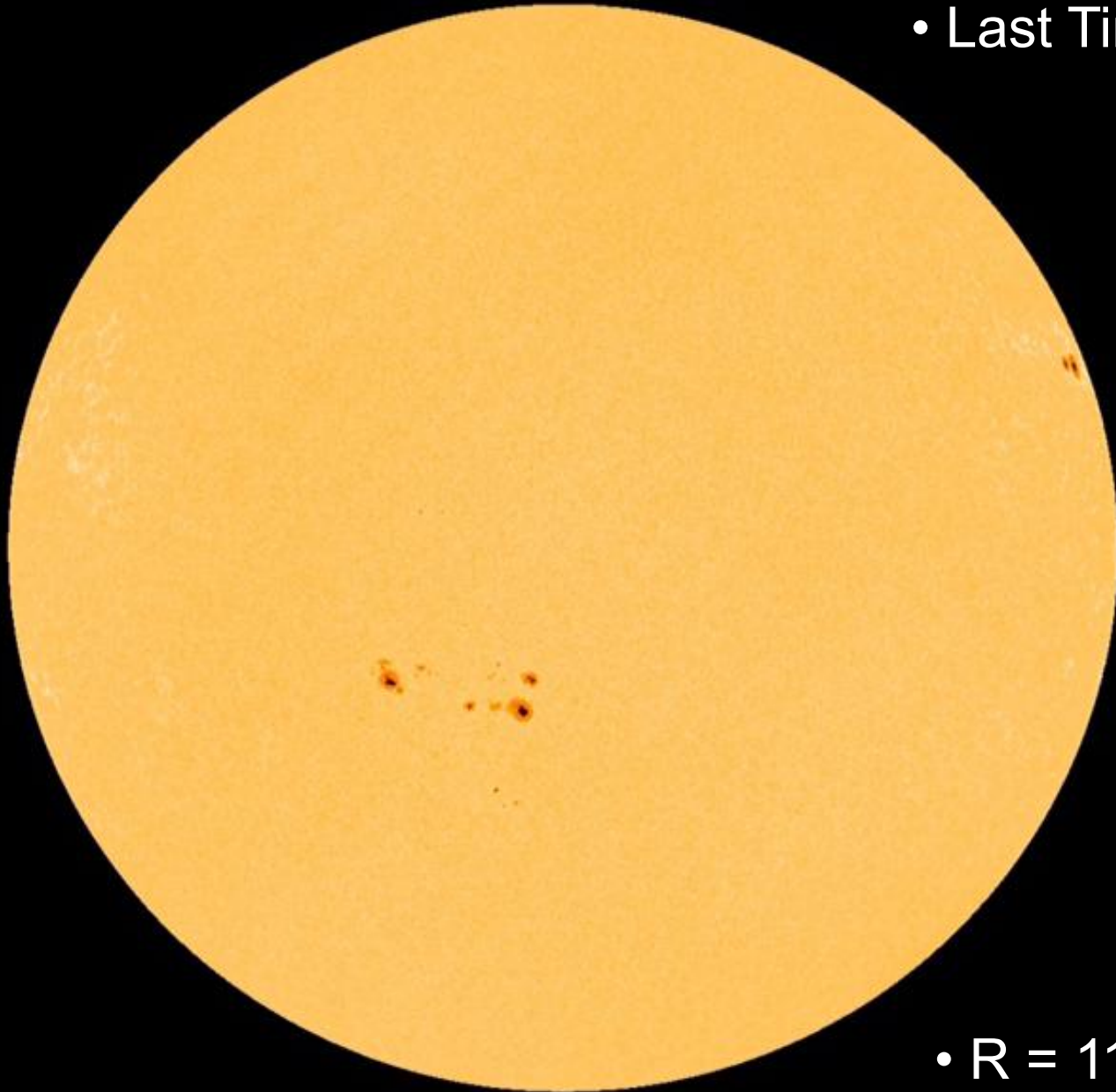


# What's Up?

2025 July 28 to August 25

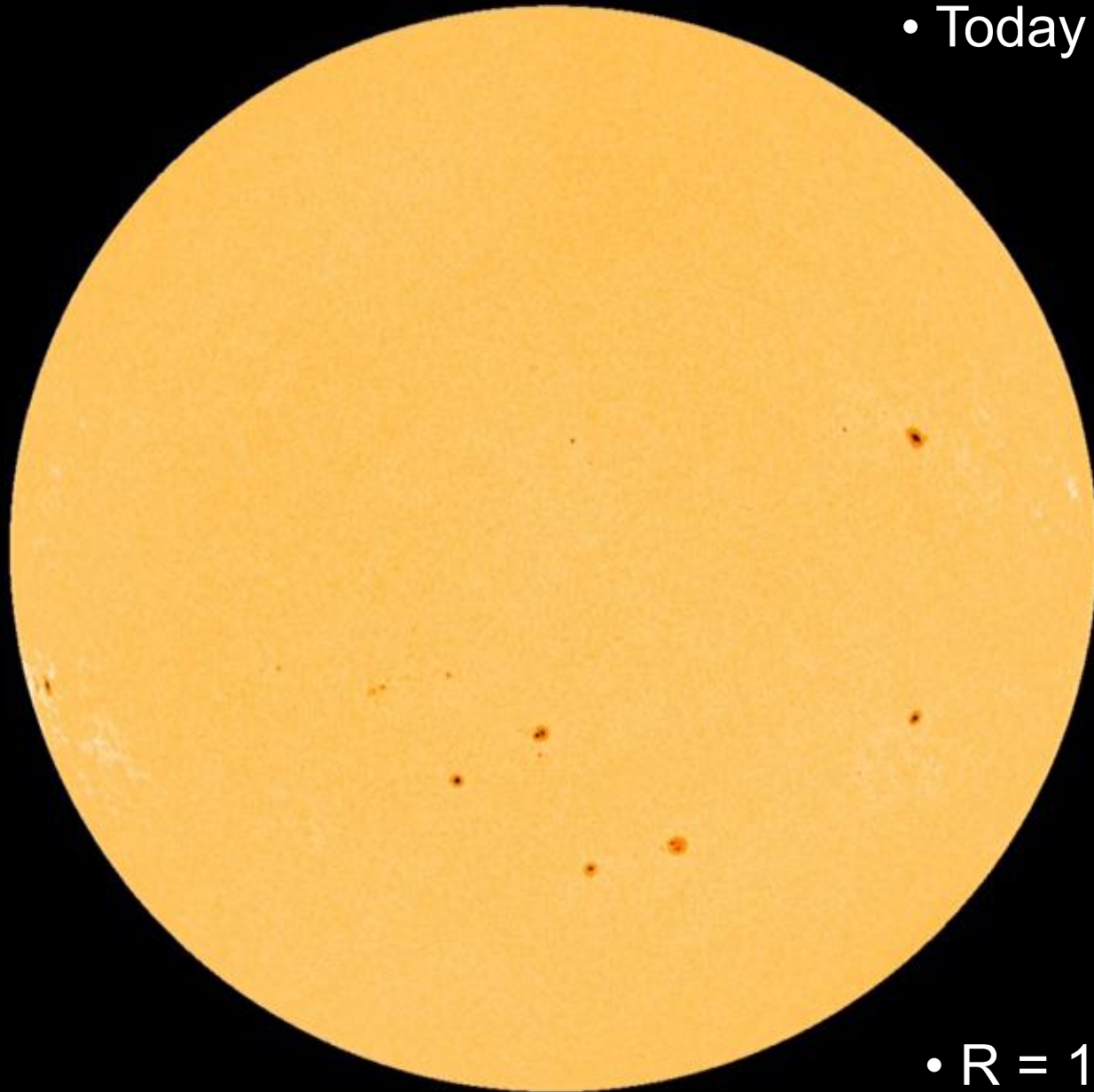
Bill Barton, FRAS

• Last Time



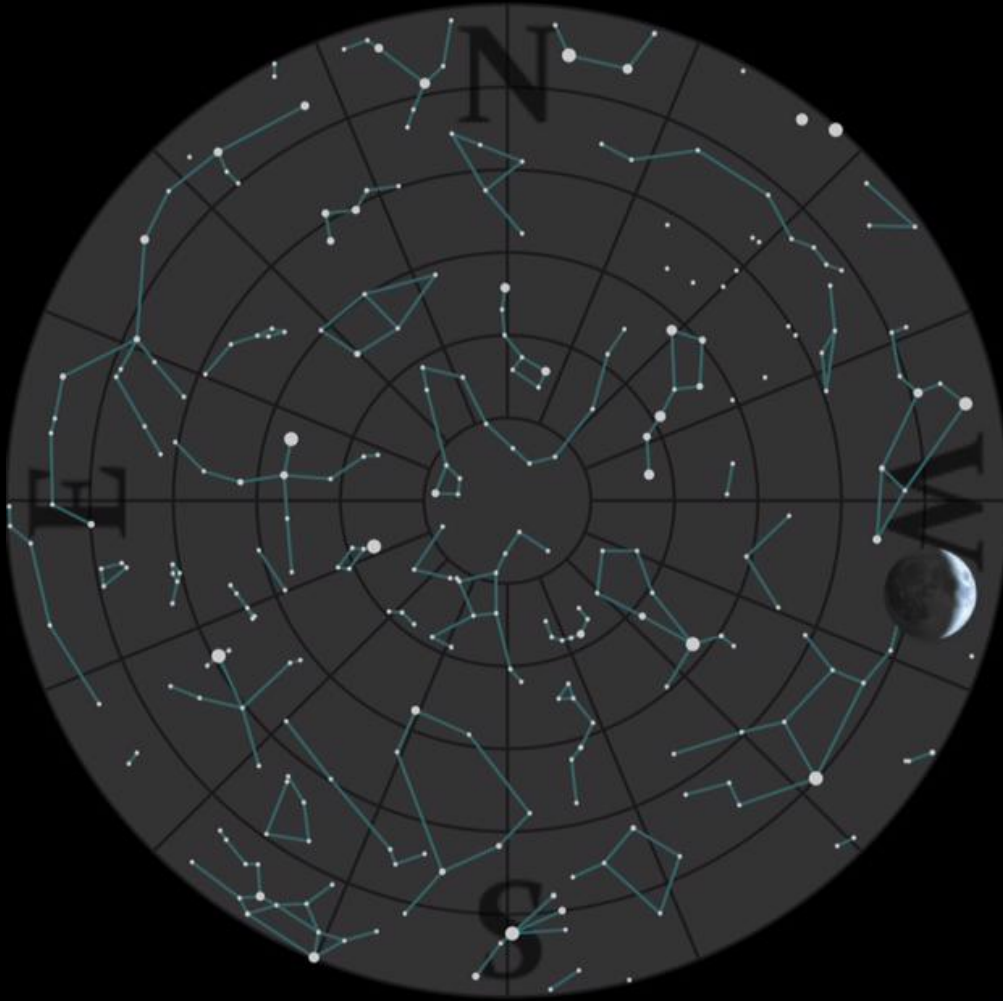
•  $R = 113$

• Today

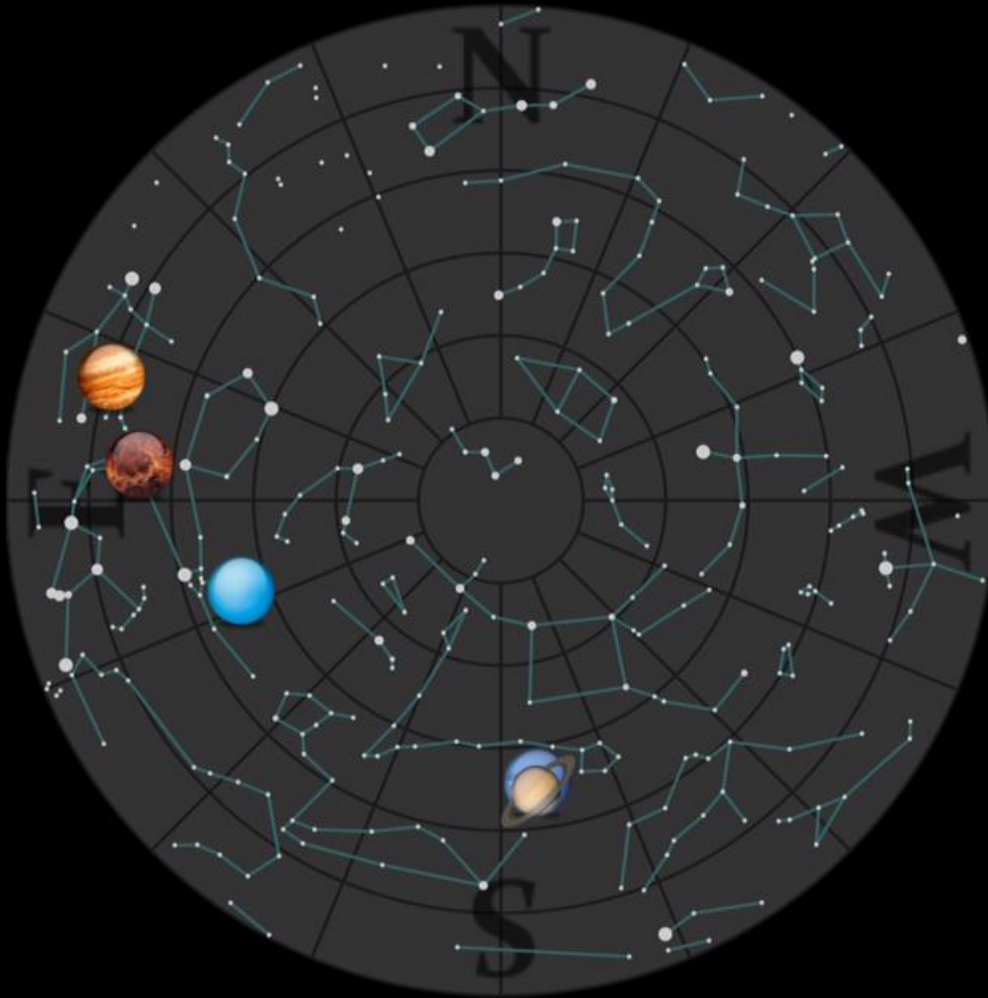


•  $R = 126$

- The Sky 21:00  
Tonight







- The Sky 05:00  
Tomorrow



# Inner Solar System

- Sun
  - Declination decreasing
  - Last sunspot min., Apr. 2020, max., now?
- Mercury
  - In the evening sky with inferior conjunction on July 31, currently  $8^{\circ}$  , 4 mag
  - Then in the morning sky, greatest elongation August 19 ( $19^{\circ}$  )
  - 'Good observing opportunity'
  - Today, rise 06:10, transit 13:20, set 20:30
- Venus
  - In the morning sky, greatest elongation May 31, ( $46^{\circ}$  ) currently  $44^{\circ}$
  - Superior conjunction January 06, 2026
  - today, rise 02:05, transit 10:15, set 18:20

# Earth

- Time
  - 00:00UT  $\approx$  20:20ST today
  - Today, sunrise 05:10, transit 13:00, sunset 20:50
  - End of period, sunrise 06:00, transit 12:55, sunset 19:45
- Moon
  -  First Quarter, August 01 & 31
  -  Full, August 09 ('Corn or Sturgeon' Moon)
  -  Last Quarter, August 16
  -  New, August 23
- Meteors
  - Perseids, July 17 - August 24, peak August 12, ZHR 80+

# Outer Solar System

- Mars
  - Conjunction January 09, 2026. Today, rise 09:45, transit 16:05, set 22:25
- Jupiter
  - Conjunction June 24, opposition January 10, 2026. Today, rise 03:00, transit 11:15, set 19:30
- Saturn
  - Opposition September 21. Today, rise 22:45, transit 04:30, set 10:30
- Uranus
  - Opposition November 21. Today, rise 00:20, transit 08:20, set 16:20
- Neptune
  - Opposition September 23. Today, rise 22:40, transit 04:40, set 10:40



# OASI Events

- Wednesdays August 6 and 20
  - No access to Orwell Park due to residential summer schools
  - Meet here instead (outside only, or the Fox)
- Monday August 11
  - Meteor watch here
- Monday August 18, from 20:00
  - 'When Galaxies were Born' prerecorded Zoom talk by Richard Ellis
- Sunday August 24, 11:00-16:00
  - Public solar observing at Bawdsey Radar Museum

# Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
  - August 09, Darsham Village Fete
  - August 16-17, Framlingham Country Show
- SAS (Cavendish Memorial Hall, 7:30pm, Tuesdays)
  - nothing until September
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
  - August 06, Chinese, Japanese & Korean Astronomy, Frank Dutton
  - August 20, Time
- DAG (Diss)
  - Informal on FaceBook & WhatsApp

# Interstellar Comet

- 3I/ATLAS
  - C/2025 N1 (ATLAS), previously A11pl3Z
  - Discovered, 1 July 2025, 4.5AU, 18 mag
  - Size, ½ to 7 miles diameter
- eccentricity = 6 (1I ('Oumuamua), 1.2. 2I (Borisov), 3.4)
  - Earth, 0.0167. Mars, 0.093
- Perihelion, 29 October 2025, 1.4AU
- Perigee, 19 December 2025, 1.8AU
- best 'seen' September? magnitude +11.5?