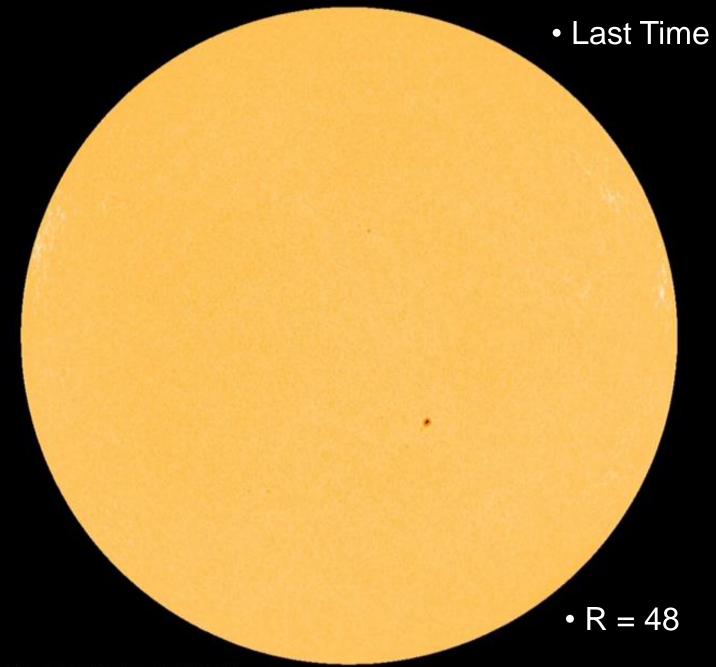
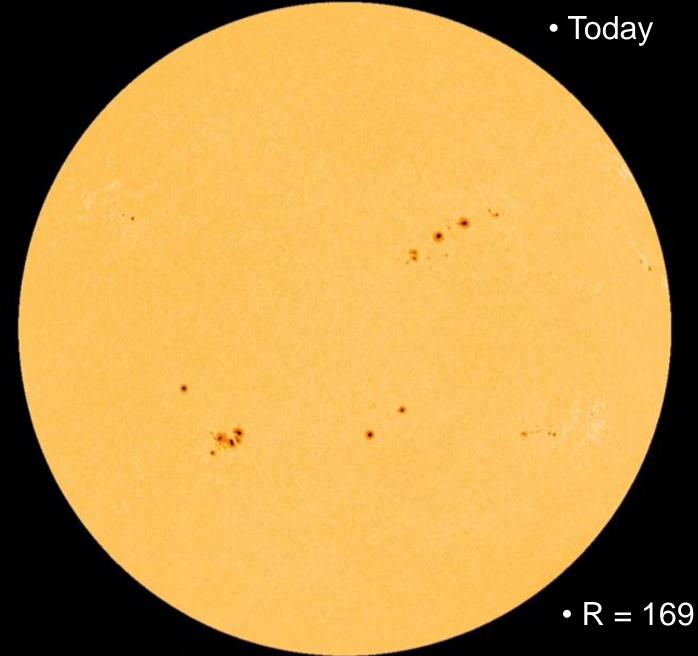
What's Up?

2023 November 27 to 2024 January 22

Bill Barton, FRAS





• The Sky 20:00 Tonight

• The Sky 07:00 Tomorrow

Inner Solar System

Sun

- Declination decreasing, solstice Dec. 22, perihelion Jan. 03
- Last sunspot min., Apr. 2020, next max., Jul. 2025 (R≈115?)

Mercury

- In evening sky, greatest elongation Dec. 04 (21°) currently 20°, mag -0.4, decreasing (+5 to -2)
- Inferior conjunction (between us and Sun) Dec. 22
- Then in morning sky, greatest elongation Jan. 12
- Today, rise 09:30, transit 13:00, set 16:35
- "good observing opportunity" early Dec. & early Jan.

Venus

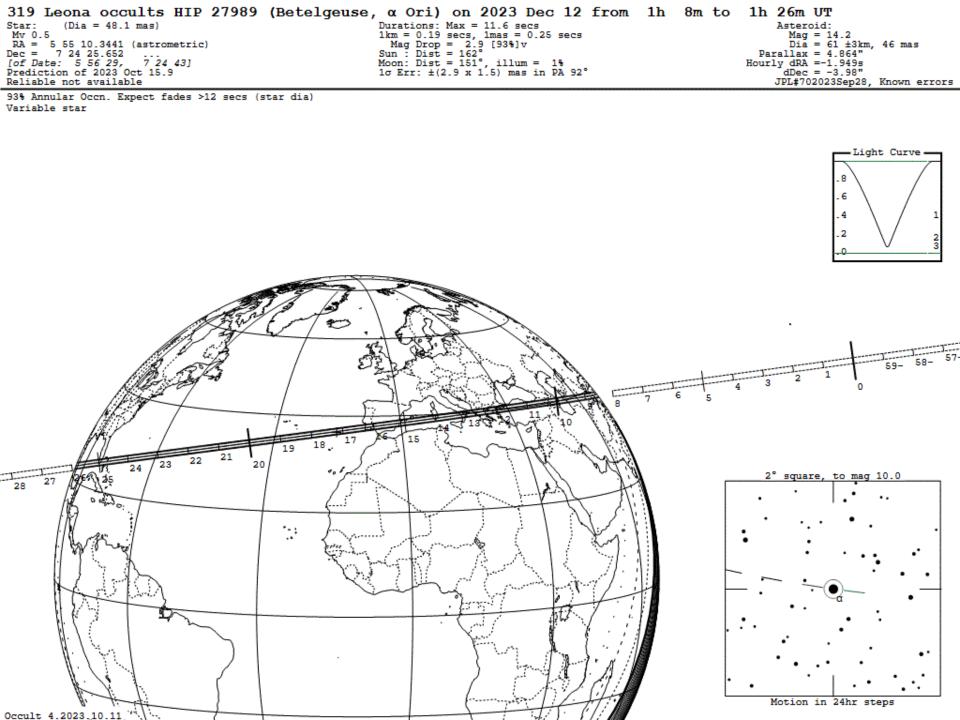
- In morning sky, greatest elongation Oct. 23 (46°), currently
 43°
- today, rise 03:20, transit 08:50, set 14:20

Earth

- Time
 - 00:00UT ≈ 02:00ST today
 - Today, sunrise 07:30, transit 11:40, sunset 15:50
 - End of period, sunrise 07:50, transit 12:05, sunset 16:20
 - Solstice Dec. 22, perihelion 2024 Jan. 03
- Moon
 - Full, Nov. 27 (Frost), Dec. 27 (Long Night)
 - Last Quarter, Dec. 05, Jan. 04
 - Wew, Dec. 12, Jan. 11
 - First Quarter, Dec. 19, Jan. 18
- Meteors
 - Geminids, Dec. 04-17, peak Dec. 14, ZHR 100+
 - Quadrantids, Dec. 28-Jan. 12. peak Jan. 04, ZHR 80+

More Meteors!

- Andromedids
 - parent object 3D/Biela
 - predicted peak 19:00, 02 Dec. 2023
 - ZHR could be 200?
 - best to observe nights of Dec. 1/2 and 2/3



Conjunctions

none of note this period

Outer Solar System

Mars

 Conjunction Nov. 18. Opposition 2025 Jan. 16. Today, rise 07:20, transit 11:25, set 15:35

Jupiter

 Opposition Nov. 03. Conjunction 2024 May 18, Today, rise 14:40, transit 21:50, set 05:00

Saturn

 Conjunction 2024 Feb. 28. Opposition 2024 Sept. 08. Today, rise 12:45, transit 17:40, set 22:40

Uranus

 Opposition Nov. 13. Conjunction 2024 May 13. Today, rise 15:00, transit 22:40, set 06:15

Neptune

 Conjunction 2024 March 17. Opposition 2024 Sept. 20. Today, rise 13:20, transit 19:10, set 00:55

OASI Events

- Committee Meeting
 - Friday, Dec. 01, from 8:00pm, via Zoom
- Christmas Meal
 - Wednesday, Dec. 06, from 8:00pm, Newbourne Fox (Observatory closed)
- Monthly Zoom Meeting
 - Thursday, Dec. 21, from 8:00pm

Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
 - TBA
- LYRA (Parkhill Hotel, Oulton, 7:30pm, Tuesdays)
 - TBA
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
 - TBA

National Events I

- British Astronomical Association
 - Saturday Dec. 09, 14:00-18:00, Christmas Meeting, Institute of Physics, 37 Caledonian Rd., London (booking required to attend in person or live stream) with drinks reception after
 - Prof Martin Hendry, 'Listening to Einstein's Universe: Dawn, and Exciting Future, of Gravitational-Wave Astronomy'
 - Prof Lyndsay Fletcher, 'Exploring the Solar Atmosphere: A Journey Through the Sun's Spectrum'
 - Nick James, 'Sky Notes'
 - Saturday Jan. 20, 14:30-18:00, Institute of Physics, 37
 Caledonian Rd., London (and live stream)
 - Mike Frost, 'Eclipse and Revelation'
 - Stephen Ramsden, 'The Beauty of Light' (remote presentation from Atlanta)
 - Nick James, 'Sky Notes'

National Events II

- Royal Astronomical Society
 - Friday Dec. 08, 16:00-18:00, The Geological Society, Burlington House, London, 'The making of an observatory: the early years of the Cambridge Observatory', Dr Daniel Belteki (+live stream)

Halley's Comet

- At aphelion on Dec. 09
 - 35.25 AU (3.28 billion miles or 5.27 billion km) from the Sun, well beyond the orbit of Neptune
 - Last perihelion Feb. 09, 1986 (mag +2.1)
 - Next perhelion July 28, 2061 (predicted mag -0.3)
 - Following perhelion Mar. 27, 2134, on May 07, 2134, Halley will pass within 0.092 AU (8.5 million miles, 13.8 million km) of Earth, predicted mag -2.0.

2024 Lookahead

- Eclipses
 - Total solar, Monday Apr. 08, USA
 - Partial lunar, Wednesday Sept. 18, UK, 03:15-04:15
- Lunar Occultation
 - Saturn, Wednesday Aug. 21, 04:30-05:20 (civil twilight starts 05:10, sunrise 05:45. full moon, Aug. 19, last quarter, Aug. 26)
- Orwell Park Observatory
 - 150 years since 'first light'