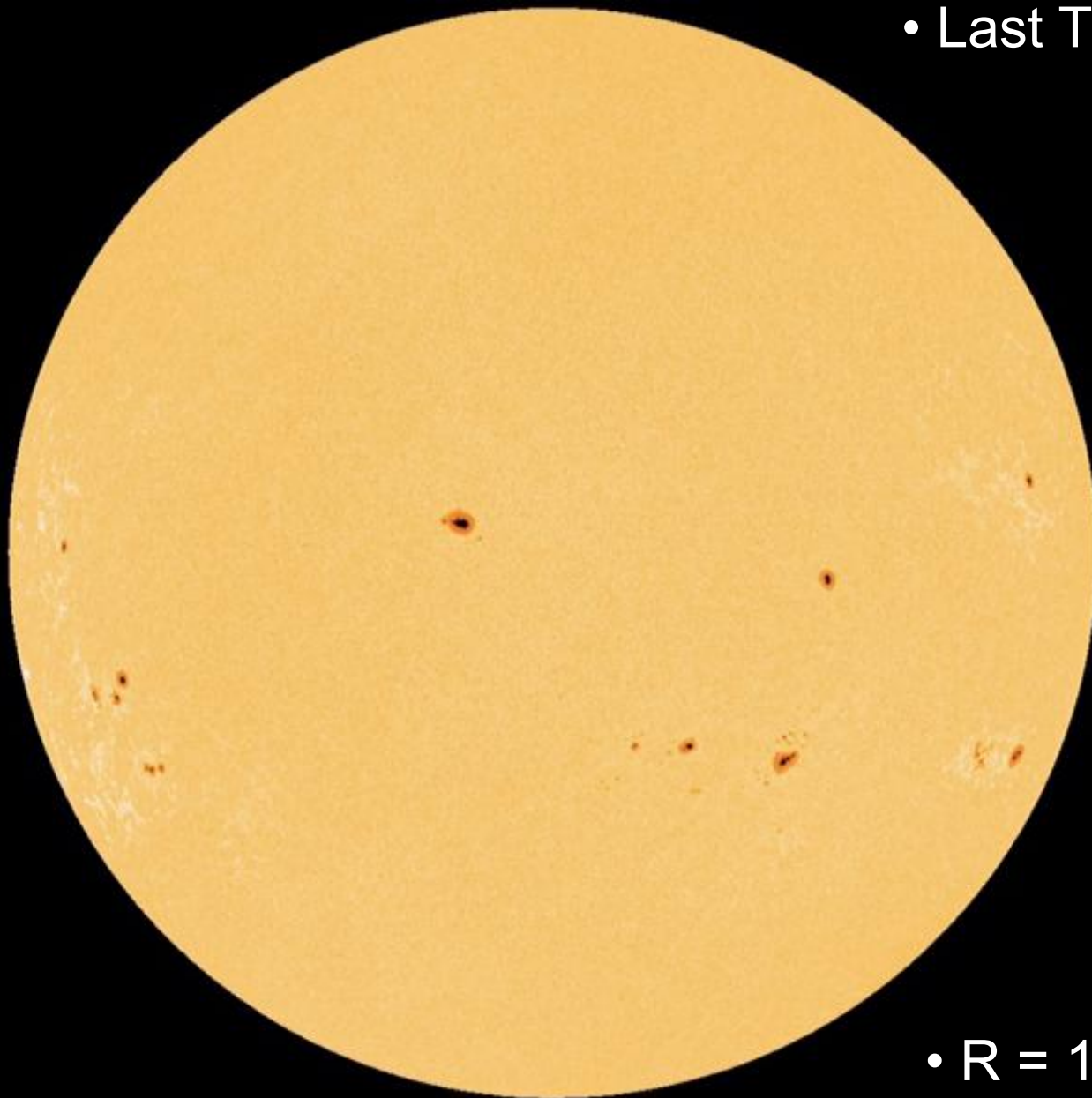


What's Up?

2025 October 27 to November 24

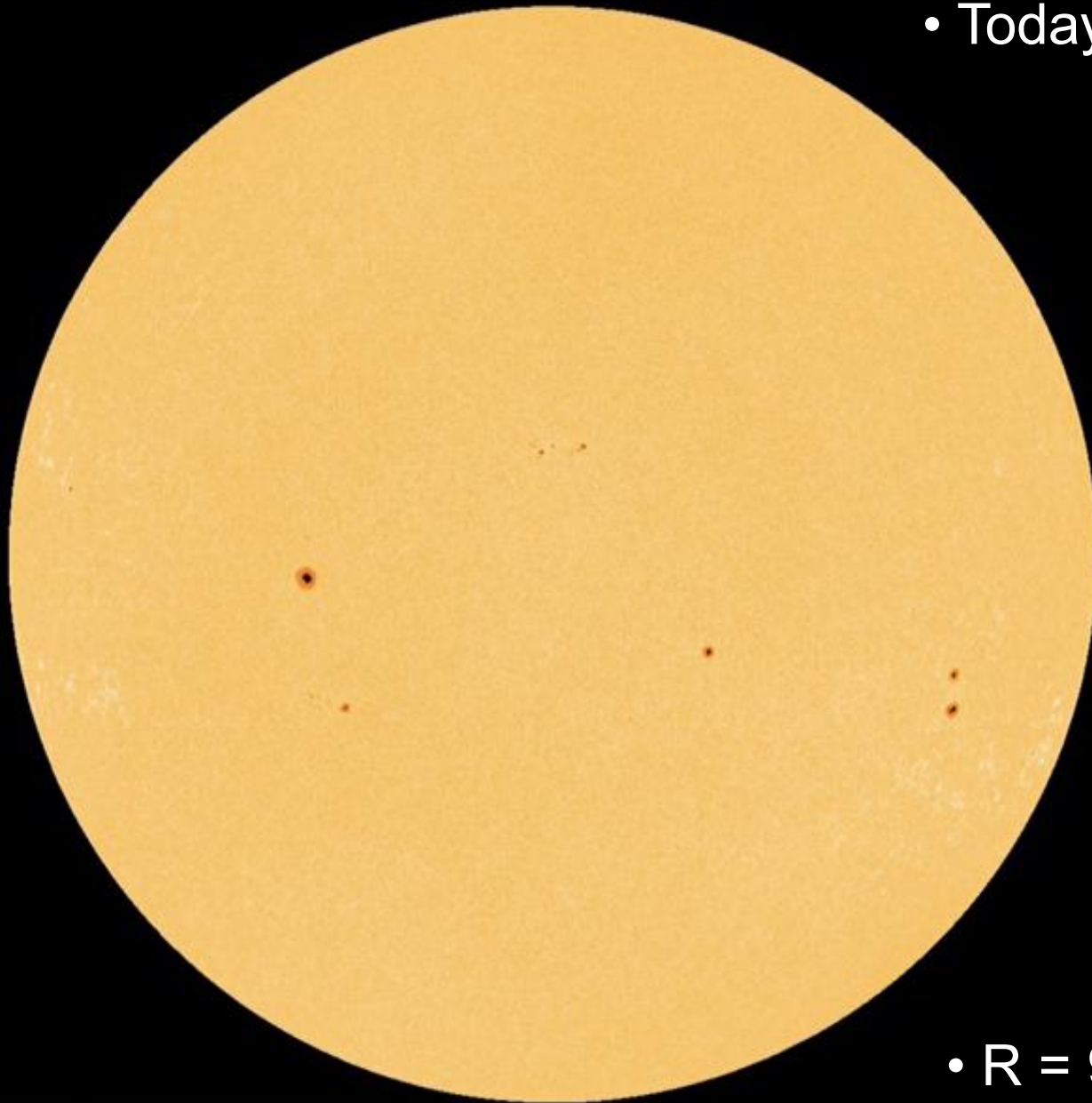
Bill Barton, FRAS

• Last Time



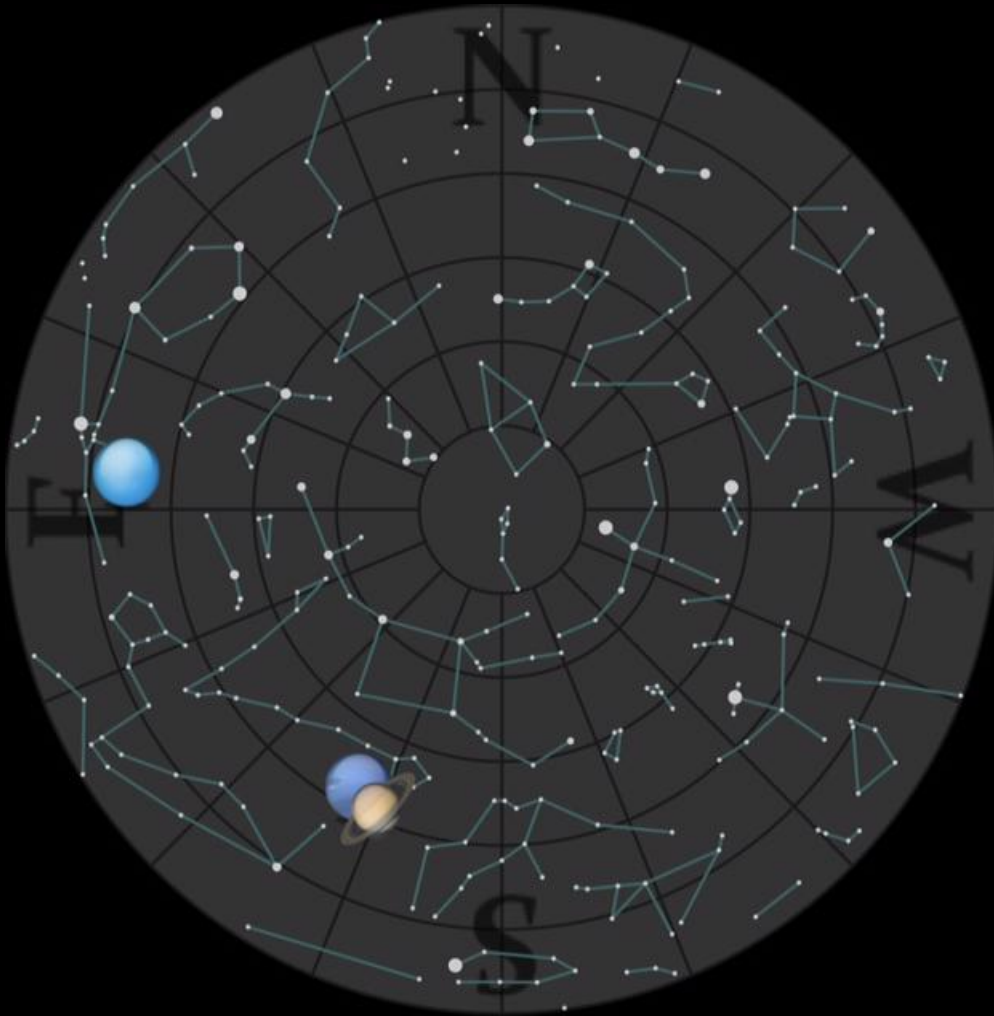
• $R = 157$

• Today

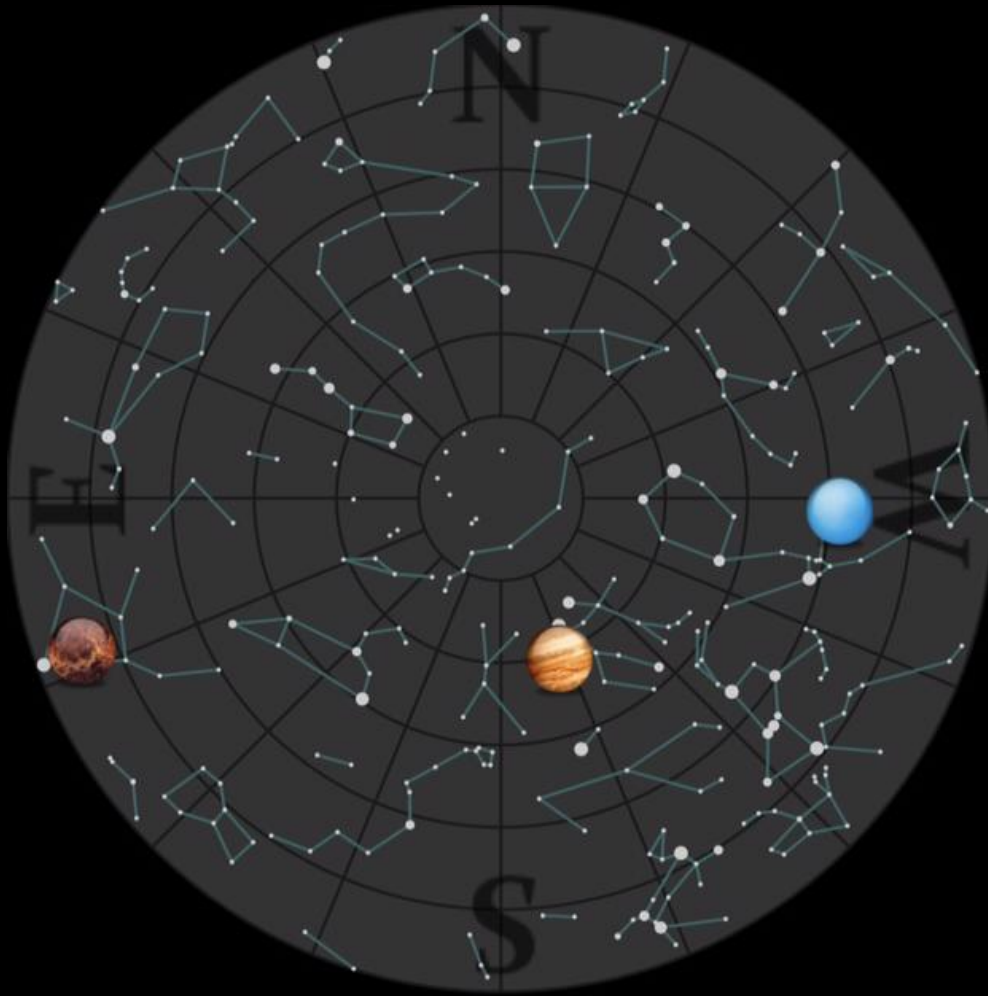


• $R = 92$

- The Sky 20:00
Tonight



- The Sky 06:00
Tomorrow



Inner Solar System

- Sun
 - Declination decreasing, Solstice December 21
 - Last sunspot min., Apr. 2020, max., now?
- Mercury
 - In the evening sky, greatest elongation October 29 (24°), currently 23°
 - Inferior conjunction November 20
 - Today, rise 09:10, transit 13:05, set 17:05
- Venus
 - In the morning sky, greatest elongation May 31, (46°) currently 15°
 - Superior conjunction January 06, 2026
 - today, rise 04:55, transit 10:30, set 16:10

Earth

- Time
 - 00:00UT $\approx$ 01:15ST today
 - Today, sunrise 06:40, transit 11:40, sunset 16:35
 - End of period, sunrise 07:30, transit 11:40, sunset 15:50
- Moon
 -  First Quarter, October 29
 -  Full, November 05 ('Frost or Beaver' Moon)
 -  Last Quarter, November 12
 -  New, November 20
- Meteors
 - None of note this period

Outer Solar System

- Mars
 - Conjunction January 09, 2026. Today, rise 08:35, transit 12:55, set 17:10
- Jupiter
 - Opposition January 10, 2026. Today, rise 21:10, transit 05:15, set 13:20
- Saturn
 - Opposition September 21. Today, rise 15:30, transit 21:20, set 03:00
- Uranus
 - Opposition November 21. Today, rise 17:30, transit 01:20, set 09:20
- Neptune
 - Opposition September 23. Today, rise 15:30, transit 21:30, set 03:20

OASI Events

- Monday November 17, from 20:00
 - 'The Search for the Theory of Everything' pre-recorded Zoom talk by John Gribbin
- Friday November 28, from 20:00
 - Committee Meeting, via Zoom
- Wednesday December 17, from 20:00
 - Christmas Meal, Newbourne Fox, booking now open

Local Societies Events

- DASH (Darsham Village Hall, 7:00pm, Sundays)
 - November 02, 'The Latest on Life in the Universe', Matt Bothwell
 - November 16, observing meeting
- SAS (Cavendish Memorial Hall, 7:30pm, Tuesdays)
 - Nothing planned?
- AAA (Whepstead Village Hall, 7:30pm, Wednesdays)
 - October 29, Open Cluster Evening
 - November 11, Vist to Breckland Astronomical Observatory
- DAG (Diss)
 - Informal on FaceBook & WhatsApp

National Events I

- International Astronomy Show
 - Saturday November 01,
 - The Sports Connexion, Coventry, CV8 3FL
- Society for the History of Astronomy - AGM & Autumn Conference
 - Saturday November 08, 09:30-17:30
 - Birmingham & Midland Institute

National Events II

- British Astronomical Association
 - AGM
 - Institute of Physics, London
 - Wednesday October 29, 17:00-20:00
- Christmas Meeting
 - Same location
 - Saturday December 06, 14:00-18:00
 - free booking open

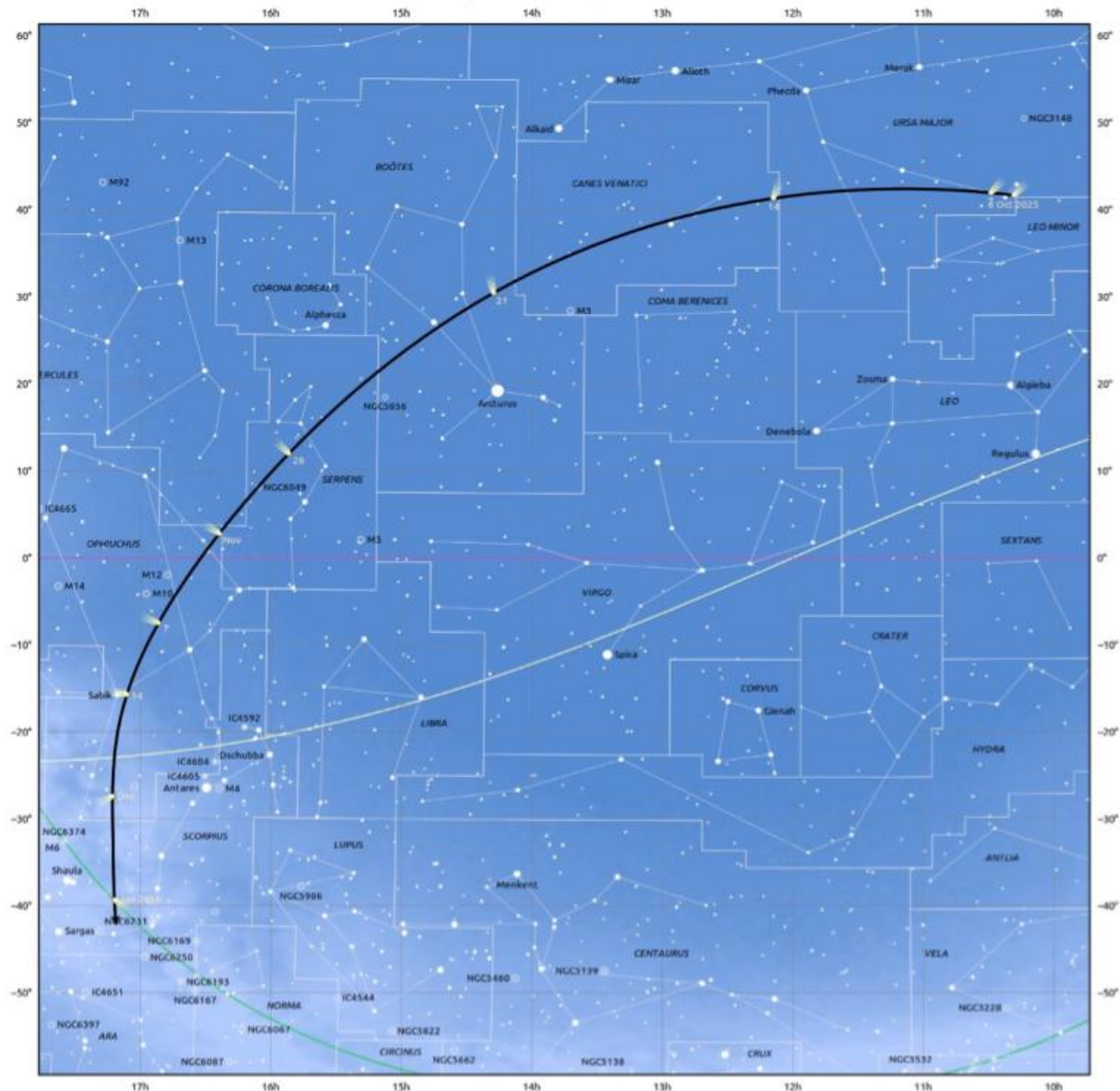
Interstellar Comet

- 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
- Previous objects
 - 1I ('Oumuamua), 2017, &
 - 2I (Borisov), 2019

Solar System Comet I

- C/2025 A6 (Lemmon)
 - Discovered, 3 January 2025
 - Perihelion, 8 November 2025, 0.53AU
 - Perigee, 21 October 2025, 0.6AU

The path of C/2025 A6 (Lemmon) from 2025 October 6



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Magnitude scale: -6.0 • 5.0 • 4.0 • 3.0 • 2.0 • 1.0 • 0.0

— The Equator — Ecliptic Plane — Galactic Plane

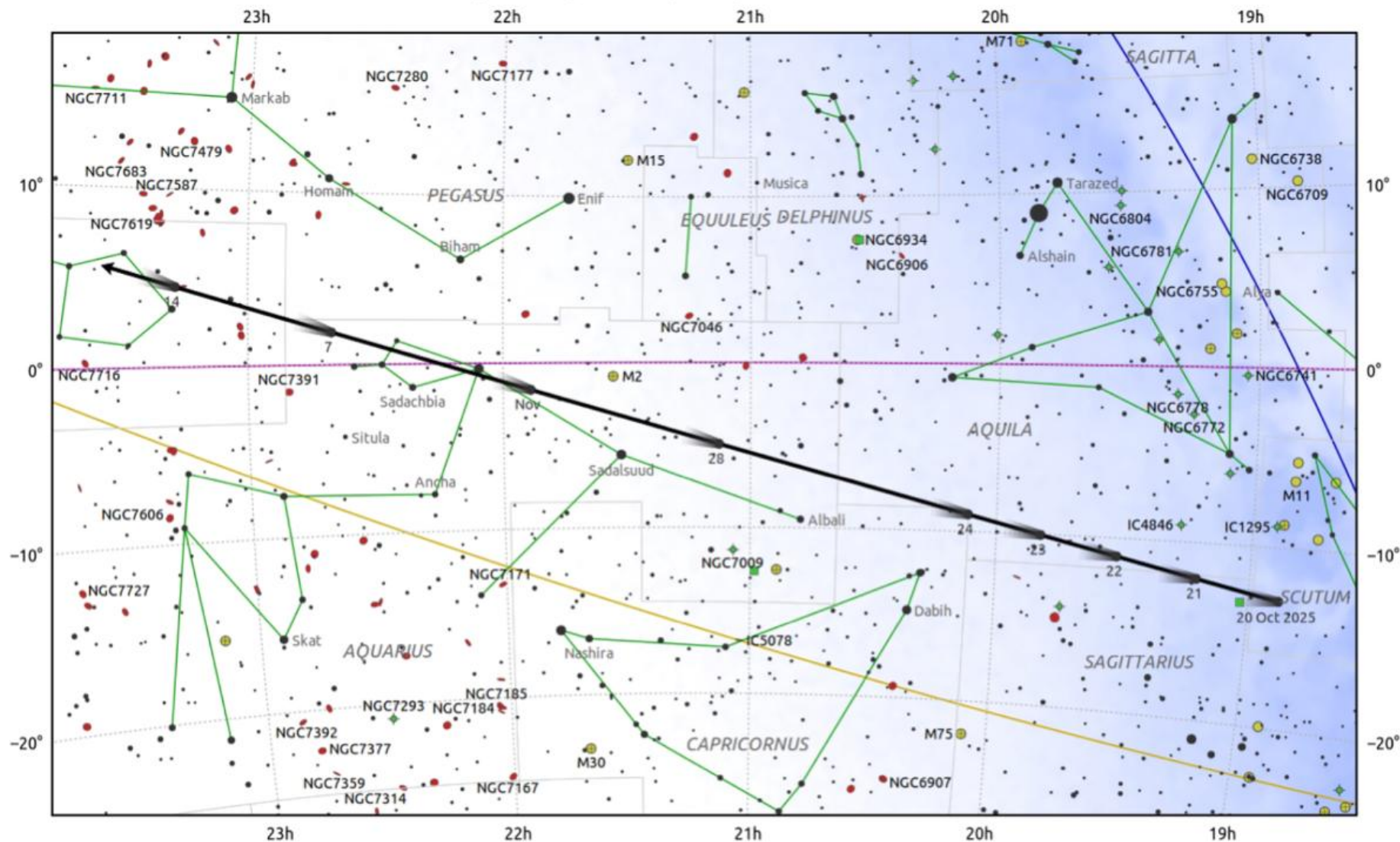
• Galaxy • Bright nebula • Open cluster • Globular cluster • Planetary nebula

Date	Mag
2025 Oct 12	5.3
2025 Oct 15	4.8
2025 Oct 18	4.3
2025 Nov 1	3.4
2025 Nov 15	4.3
2025 Nov 22	5.3
2025 Nov 29	6.3
2025 Dec 1	6.6
2025 Dec 7	7.4
2025 Dec 15	8.3
2025 Dec 16	8.4
2025 Dec 27	9.4
2026 Jan 1	9.8

Solar System Comet II

- C/2025 R2 (SWAN)
 - Discovered, 11 September 2025
 - Perihelion, 12 September 2025, 0.5AU
 - Perigee, 20 October C/2025, 0.26 AU

The path of C/2025 R2 (SWAN) from 2025 October 20



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Magnitude scale: · 7.0 · 6.0 · 5.0 · 4.0 · 3.0 · 2.0 · 1.0 · 0.0

— The Equator

— Ecliptic Plane

— Galactic Plane

● Galaxy

■ Bright nebula

● Open cluster

● Globular cluster

◆ Planetary nebula

Date	Mag
2025 Oct 21	9.4
2025 Oct 29	10.5
2025 Nov 1	10.9
2025 Nov 5	11.5
2025 Nov 7	11.8
2025 Nov 13	12.6
2025 Nov 15	12.8