

SOLAR-1

June 12, 2026 • vajiramandravi.com



SOLAR-1 Latest News

The United States recently activated SOLAR-1, its first dedicated space weather monitoring satellite, designed to provide faster warnings of solar storms that can affect GPS, communications, satellites and power grids.

About SOLAR-1

- It is the **first United States satellite** designed **exclusively for continuous operational space weather observation**.
- It is **operated** by the **U.S. National Oceanic and Atmospheric Administration (NOAA)**.
- Originally named Space Weather Follow On – Lagrange 1 (SWFO-L1), the satellite was **renamed to Space Weather Observations at L1 to Advance Readiness – 1 (SOLAR-1)**.
- **Primary Mission: Continuous monitoring of solar activity and space weather.**
- **Launch Date:** 24 September 2025
- Launch Vehicle: SpaceX Falcon 9
- **Orbit:**

- Positioned at the **Sun-Earth Lagrange Point 1**, about 1.6 million kilometres from Earth towards the Sun, SOLAR-1 enjoys a **constant, unobstructed view of solar activity**.
- From this vantage point, it continuously **measures solar wind and tracks coronal mass ejections (CMEs) before they reach Earth**.
- The location's **gravitational stability** allows the spacecraft to **maintain position** with **minimal fuel use**.
- It uses a **special telescope**, called a **compact coronagraph**, to monitor the sun's activity in addition to a suite of instruments to make real-time measurements of the solar wind.
- It can **transmit CME images** to NOAA's Space Weather Prediction Center **within 30 minutes**, compared to up to eight hours for older systems.
- Its enhanced capabilities are expected to **improve aurora forecasts** and strengthen the **protection of power grids, navigation, communications, and space missions** from severe space weather.

News: MC

Source: <https://vajiramandravi.com/current-affairs/solar-1-satellite-launch-orbit-latest-news/>

© Vajiram & Ravi. For personal use only.