

# Solar System Eruption



## Overview

The sun produced its strongest solar flare of 2025, an X5. 1-class eruption from sunspot AR4274 triggering severe radio disruptions across continents. The flare—a powerful burst of radiation—was among the strongest in the sun's current activity cycle, researchers say. NASA's Solar Dynamics Observatory, which watches the Sun constantly, captured an image of the event. Minor to active solar storms (i., storming restricted to higher latitudes) may occur under elevated. Coronal mass ejections, or CMEs, are immense clouds of solar material blasted into space by the Sun at over a million miles per hour, often following a solar flare. You can zoom in on this plot by selecting a time period that you wish to view and even export the graph as a JPG, PDF, SVG or PNG file. Beneath that we have a collection of live imagery which.



## Article Content

### NASA Captures "Most Intense Volcanic Eruption Ever"

New images from NASA's Juno spacecraft make Io's nature clear. It's the most volcanically active world in the Solar System, with more than 400 active

### Volcanoes and Volcanic Eruptions

Home » Volcanoes and Volcanic Eruptions Volcanoes and Volcanic Eruptions What is a Volcano? A volcano is a vent in Earth's surface where magma, gas, and ash escape. The name is also used for

Homepage | NOAA / NWS Space Weather Prediction

Solar TERrestrial RELations Observatory (STEREO) Solar Wind Observations Data  
Access Archived Space Weather Products Archived SWPC

### Solar Flares (Radio Blackouts) | NOAA / NWS Space Weather

Solar flares are large eruptions of electromagnetic radiation from the Sun lasting from minutes to hours. The sudden outburst of electromagnetic energy travels at the speed of light, therefore any effect

### NASA Detects "Warning Flickers" on the Sun Before Dangerous Solar Eruptions

These eruptions occur when magnetic field lines on the Sun twist and snap, typically around sunspots—darker regions on the Sun's surface. The buildup and release of this energy can

### Astronomers capture a violent super-eruption from a young sun

Astronomers observed a massive, multi-temperature plasma eruption from a young Sun-like star, revealing how early solar explosions could shape planets. These fierce events may have

### Sun Unleashes Strongest Solar Flare of 2025 From Sunspot AR4274

The sun produced its strongest solar flare of 2025, an X5.1-class eruption from sunspot AR4274 triggering severe radio disruptions across continents. The major event erupted November

### Solar flares | SpaceWeatherLive

Last but not least we have a list detailing all solar flares that took place today. All times listed are in UTC. The plot on this page shows us the most recent 24-hour

### The Sun Erupted With the Year's Largest Solar Flare

Though solar flares are the solar system's most powerful explosions, it's another kind of eruption—a coronal mass ejection (CME)—that more strongly

Watch the sun unleash 600,000-mile-long eruption in

Watch a huge solar filament erupt on May 12–13. Spanning 600,000 miles, the event will likely miss Earth, but scientists are keeping a close eye on it.

New update on "Bird wing" solar eruption that could hit Earth

A major solar eruption, also being called as the "bird-wing" event, is set to possibly impact the Earth tomorrow. This comes as a direct warning from astronomers, with a tremendous eruption of ...

Rosetta Stone Eruption on the Sun Could Help Explain Solar ...

An unusual eruption on the Sun may offer clues to understanding our star's mysterious explosions. The new research studied an event named the "Rosetta Stone" of solar eruptions. Just

NASA Confirms Thousands of Massive, Ancient Volcanic Eruptions on

On Earth volcanoes capable of super eruptions — the most recent erupted 76,000 years ago in Sumatra, Indonesia — are dispersed around the globe and exist in the same areas as other

How NASA Tracked the Most Intense Solar Storm in

During the first full week of May, a barrage of large solar flares and coronal mass ejections (CMEs) launched clouds of charged particles and

Astronomers spot first giant star eruption beyond the

The first confirmed sighting of a stellar eruption beyond our Solar System was strong enough to peel away the atmosphere of any planet in its

Sun unleashes strongest solar flare of 2025, sparking

The sun erupted in spectacular fashion this morning (Nov. 11), unleashing a major X5.1-class solar flare, the strongest of 2025 so far and the

Scientists find strange changes on sun hours before a powerful X9 solar ...

Scientists analyzing a powerful X9 solar flare found unusual changes in the sun's atmosphere hours before eruption, offering clues to space weather forecasts.

Solar Storms and Flares

NASA's fleet of heliophysics spacecraft orbit in various locations around the solar system to study the Sun's activity, solar explosions, and the

Strong Flare Erupts from Sun

Solar flares are powerful bursts of energy. Flares and solar eruptions can impact radio communications, electric power grids, navigation signals, and

Solar flares | SpaceWeatherLive

The plot on this page shows us the most recent 24-hour solar X-ray data from the primary GOES satellite. You can zoom in on this plot by selecting a time period

Will You See Aurora In India Today ? Massive Solar Storm To Hit

Science Will You See Aurora In India Today ? Massive Solar Storm To Hit Earth, Says NASA Authored by: Aditi Pandey Updated Jun 8, 2026, 00:03 IST A significant solar storm is

Watch the sun unleash "extremely rare" solar storm in

Astronomy Solar System The Sun Watch the sun unleash "extremely rare" solar storm in explosive eruption (video) News By Daisy Dobrijevic

List of solar storms

In the Solar System, the Sun can produce intense geomagnetic and energetic particle storms capable of causing severe damage to technology.

What Is a Volcano? | NASA Space Place – NASA

Are There Volcanoes Elsewhere In Our Solar System? Yes! There have been a lot of volcanoes on other planets in the past. Some places in our

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