

Are solar explosions over?

May 14, 2024 / 4:13 PM EDT / CBS News The giant solar explosions of energy and light aren't over yet. Officials said on Tuesday that the sun just emitted another major solar flare - and that it's the strongest one so far in the current solar cycle.

What happened at solar maximum?

According to Nasa, at its peak, known as solar maximum, the Sun's magnetic poles flip. The last solar minimum occurred in December 2019, marking the start of Solar Cycle 25. What has surprised astronomers is the fact that the prominence suddenly broke off and then remained airborne for hours over the poles.

When will a solar flare hit Earth?

NASA models show that the CME unleashed by the solar flare will likely hit Earth on Saturday (Oct. 4). (Image credit: NASA) The latest solar outburst is another sign that we have likely entered solar maximum -- the peak of the sun's roughly 11-year solar cycle, which occurs right before its magnetic field completely flips.

What is a solar flare?

A solar flare is an intense burst of radiation, or light, on the Sun. These flashes span the electromagnetic spectrum -- including X-rays, gamma rays, radio waves, and ultraviolet and visible light. Solar flares are the most powerful explosions in the solar system -- the biggest ones can have as much energy as a billion hydrogen bombs.

Are solar flares over?

The giant solar explosions of energy and light aren't over yet. Officials said on Tuesday that the sun just emitted another major solar flare - and that it's the strongest one so far in the current solar cycle. The latest flare peaked just before 1 p.m. ET, NOAA's Space Weather Prediction Center said, with an X-class rating of X8.7.

Did the Sun unleash the most powerful solar flare in 7 years?

(NASA/SDO) The Sun just unleashed the most powerful flare we've seen in seven years. On October 3, a flare measured at a strength of X9.0 exploded right in the middle of the solar disk. Even more excitingly, it was accompanied by what is known as a halo coronal mass ejection - one that is ejected straight at Earth.

Nasa has released video of the strongest solar flare emitted by the Sun for several years. On Thursday, the space agency's Solar Dynamics Observatory caught the X2.8 ...

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An expulsion of billions of tons of solar particles and tangled magnetic fields that blast through the Solar System, CMEs can take a few days to reach us, but when they do, the particles interact with Earth's magnetosphere ...

The solar storm of 2012 was a solar storm involving an unusually large and strong coronal mass ejection that occurred on July 23, 2012. It missed Earth by a margin of roughly nine days, as ...

The sun has produced its biggest flare in nearly a decade, days after severe solar storms pummelled Earth and created the dazzling Southern Lights in parts of Australia last week. It was first captured on Tuesday, but it will still be days before it is clear how the latest giant explosion on the sun -- blasting energy, light and particles ...

Of course, tree rings only give us a snapshot of an entire year in which a Miyake event has occurred, so it's still unclear if the events would be the result of one single catastrophic solar burst ...

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The Effect of Solar Radio Bursts on GNSS Signals. Xinan Yue, ... William S. Schreiner, in Extreme Events in Geospace, 2018 Abstract. A solar radio burst (SRB) is the intense solar radio emission related to a solar flare and one of the extreme space weather events. If an SRB occurs with the enhancement in L band radio flux, it could influence the Global Navigation Satellite ...

2 ???· It happened at 11:12 UTC on December 23, and came from active region AR3932. ... Parker Solar Probe was closest to the sun this morning at 11:53:48 UTC today (December 24). It came within 3.8 ...

Their paper, entitled "A major solar eruptive event in July 2012," describes how a powerful

coronal mass ejection (CME) tore through Earth orbit on July 23, 2012. Fortunately Earth wasn't there. Instead, the storm cloud hit ...

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What happened was a polar vortex as material broke from a filament on the northern limb of the Sun and lingered overhead for hours. The information was tweeted by Space Weather Physicist Dr. Tamitha Skov with a video showing the break-off. There is no danger to Earth from this event since it has not produced any Coronal Mass Ejection.

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