

# What is solar storm? How solar storm affects the Earth

A solar storm can release the energy equivalent of millions of 100-megaton (100 million tons) hydrogen bombs exploding at the same time.

**Solar Hurricane or Wind** The Sun is a magnetic energy explosion in the Sun's atmosphere, causing a violent explosion of light. From the surface of the Earth, we can observe the Sun storm through telescopes, space X-rays and thermal imaging devices.

A solar storm can release the energy equivalent of millions of 100-megaton (100 million tons) hydrogen bombs exploding at the same time. That energy level is also 10 million times greater than the energy released by an erupting volcano.



A solar storm usually lasts only a few minutes but its heat can reach millions of degrees and create a radiation explosion on the electromagnetic spectrum, from radio waves to X-rays and gamma rays. Solar Storm is also directly related to the aurora phenomenon on Earth and on other planets.

The strength of the solar storm increases with the scale of levels A, B, C, M, X, the following level is 10 times stronger than the previous level.

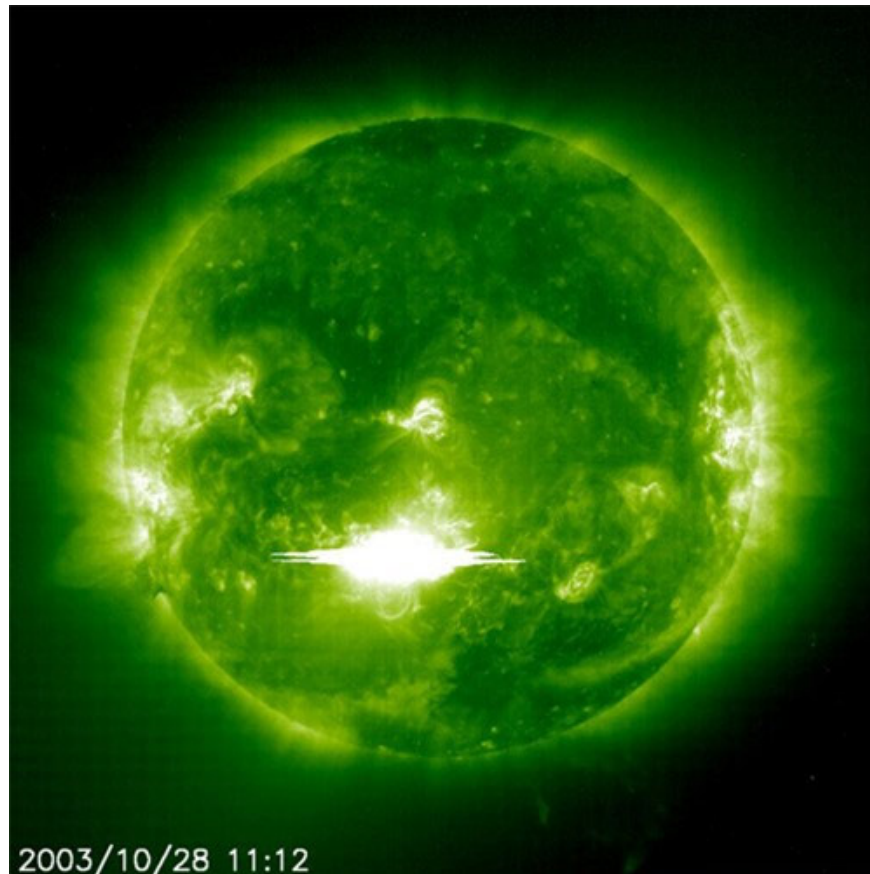
## When does Sunstorm occur?

When magnetic energy accumulates in the Sun's atmosphere, mainly in the areas around the dark side of the Sun, suddenly being released will create a solar storm, causing the Sun's surface to shine in a Period.

## **What effect does Sun Storm have on Earth and people?**

The solar winds will emit X-rays and ultraviolet (UV) rays in all directions. These types of rays can cause sustained radiation storms at the top of the Earth's atmosphere and cause radio signal loss worldwide.

In addition, the highly energetic particles in the Earth's magnetic field generated by the solar wind can pose radiation hazards for spacecraft and astronauts.



## **Solar storms have destroyed Earth in history**

### **Terrible storm on Halloween**

On October 28, 2003, the Sun released a terrible storm that reached level X45, causing the sensors of the observation ships to be disordered.

### **Bastille Day (France National Day)**

On July 14, 2000, a X5-class Sun storm caused a temporary interruption in radio waves and short circuits for several satellites.

## **Solar Storm destroys electrical systems and telephone networks**

In March 1989, a solar storm caused a fault in the electrical system in Canada, causing 6 million people to live in darkness for 9 hours. The storm also caused long-distance telephone systems through several states of the United States has also been devastated.

## **Carrington event**

In 1859, the Carrington event (Carrington Event) is the first recorded solar storm in the world and this is also the largest recorded solar storm in 500 years.

This solar storm has caused a few interruptions in global telegraph communications and aurora borealis extends as far as the southern part of the Caribbean.

## **Christmas Hurricane 2006**

A Category X9 solar storm damaged the GOES 13 satellite imaging device and disrupted communications between satellites, the ground, and GPS signals for 10 minutes.

You finished reading the article "**What is solar storm? How solar storm affects the Earth**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.