

Will a solar storm cause widespread outages & damage?

Concern that a solar storm might cause widespread outages and damage is valid and documented. As we approach peak solar activity in 2025, solar storms may increase in frequency and intensity. An event of similar intensity to the Carrington Event will damage more than our power grid.

What effects could the 'extreme' solar storm trigger?

On Friday evening, NOAA upgraded the storm to G5 or "extreme", marking the first such event since October 2003. NOAA's warning of extreme space weather suggests the storm could trigger numerous effects for life on earth, possibly affecting the power grid as well as satellite and high frequency radio communications.

What happened in May 2024?

Solar flares in May 2024 prompted the most intense solar storms in more than two decades, reaching G5 levels and causing widespread GPS disruptions and some stress to power grids.

Could a severe solar storm hit 'extreme' levels?

Read our full story and see northern lights photos from Space.com readers. A severe solar storm sparked by an intense flare from the sun could reach "extreme" levels as it bombards Earth, officials with the U.S. National Oceanic and Atmospheric Administration (NOAA) warned on Thursday (Oct. 10).

Will 'extreme' storm affect Earth's power grid?

On Friday evening, NOAA upgraded the solar storm to G5 or "extreme," marking the first such event since October 2003. The extreme space weather warning suggests the storm could affect the power grid, as well as satellite and high frequency radio communications.

Can a G5 solar storm cause auroras?

The NOAA center predicted that this current G5 solar storm could induce auroras visible as far south as Northern California and Alabama. It's the first G5 storm to hit the planet since 2003, when a similar event temporarily knocked out power in part of Sweden and damaged electrical transformers in South Africa.

An uncommonly strong solar storm is hurtling toward Earth, bringing with it the power to disrupt some communications and even produce some dazzling northern lights.. The storm's impending arrival ...

In addition to possibly bringing the northern lights to Ohio, the severe geomagnetic storm caused by solar eruptions that is predicted for this weekend might wreak havoc on cellphones, the power ...

They include unfounded claims about an impending solar storm that will trigger global internet outage within the next decade, and how NASA's Parker Solar Probe, which was launched in 2018 to study ...

This CME reached our planet at 10:37 a.m. EDT (1437 GMT) on Sunday, March 24, triggering a severe

G4-class geomagnetic storm, marking the most potent solar storm since 2017. However, according to a Geomagnetic ...

Since February 25, 2025, the Space Weather Prediction Center has presented new coronagraph images and data from the GOES-19 Compact Coronagraph-1 (CCOR-1).

As NOAA had warned late Friday, the Earth has been experiencing a G5, or "Extreme," geomagnetic storm. It's the first G5 storm to hit the planet since 2003, when a similar event temporarily...

Solar flares of this magnitude are relatively rare and are characterized by intense eruptions of energy from the Sun that typically last anywhere from minutes to hours. The flare reached its peak at 01:23 AM EDT ...

The most recent event of similar or greater magnitude occurred in October 2003. That was a G5 level solar storm that wreaked havoc with power globally, notably in Sweden and South Africa where power outages occurred ...

In case the storm is severe and triggers outages, it's always best to respond how you would for any power outage: keep your fridge closed, disconnect appliances to avoid damage from an electrical ...

Massive solar storm to hit Friday evening could disrupt communications, power and GPS, NOAA warns What to expect and how to prepare, according to the latest from the Space Weather Prediction...

The May 2024 storm, rated G5 on the National Oceanic and Atmospheric Administration's 1-to-5 Geomagnetic Storms scale, disrupted GPS communications enough to throw off tractor guidance, which ...

Heads up! Solar Cycle 25 is here. This 11-year cycle of the sun's activity is expected to reach its peak in 2025, with solar flares and eruptions that can wreak havoc on ...

Solar Storm Power Outage Concern that a solar storm might cause widespread outages and damage is valid and documented. As we approach peak solar activity in 2025, solar storms may increase in frequency ...

Transpower has issued a precautionary grid emergency notice as the largest solar storm in two decades to affect Earth hits New Zealand this weekend. Sixteen electricity assets across the country have been removed ...

A severe geomagnetic storm that hit Earth has the potential to knock out power and electronics this weekend, but it could also bring a spectacular light show from the aurora ...

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NOAA's warning of extreme space weather suggests the storm could trigger numerous effects for life on

earth, possibly affecting the power grid as well as satellite and high frequency radio...

NOAA issued a G3-level geomagnetic storm warning on Oct. 10, 2024, at 11:45 a.m. EST. The anticipated coronal mass ejection (CME) arrived at Earth at 11:15 a.m. EST at nearly 1.5 million miles per ...

Planet Earth is getting rocked by the biggest solar storm in decades - and the potential effects have those people in charge of power grids, communications systems and ...

As with any power outage, you can prepare by keeping your devices charged and having access to backup batteries, generators and radio. The most notable solar storm ...

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