Weekly digest, sent on Tuesdays

A forum report on space weather and the weather below is right to urge caution

Science advisers report what a 2026 forum on them concluded about how weather in space can affect weather on Earth. Plus: Why a study of Greenland's ice sheet is causing controversy, and a Carbon Brief explainer on how we check claims.

Hello, and welcome to Clear on Climate, a weekly digest of the week's climate news, with a focus on the science behind the headlines. I'm Daniela Hernandez, a freelance science writer and editor. If you're reading this and aren't yet subscribed, you can sign up to receive it in your inbox every Tuesday.

Right to urge caution, though none of the 3 measures we checked on the weather's effects below cites a study.

0 of 18

Number of the 18 claims in the report that cite a study

16

Number of the 18 claims in the report that are unsourced

1 of 5

Number of the 5 claims in the report that cite a study

Claim

"Space weather can affect the performance, life or reliability of spacecraft and navigation and communication systems, and can pose a risk to human health and safety."

Evidence

Cites a study, but it's about the effects on the ground of geomagnetic storms, not space weather's effects on spacecraft.

Claim

"[T]he forecasting of space weather is in its infancy."

Evidence

Unsourced statement that could be supported by many studies.

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Claim

"Much driving by the term 'space weather' comes from the commercial and public sectors, which are increasingly dependent on space-based technologies."

Evidence

Unsourced statement that could be supported by many studies. Also, the report's own [glossary](#) defines it as "[t]he variation of the space environment between the Sun and Earth".

Claim

"Space weather is the natural variability of the space environment between the Sun and Earth."

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A three-day forum's conclusions, published almost four years later

The report, published on 4 March, is titled "Physical Links Between Weather & Space: Bridging the Gap". It's based on a forum held in London on 3-5 December 2024, according to the report's [publication info](#).

16 people

Number of people who attended the forum, according to [page 4](#)

Oct. 2026

Date the report was published, according to [page 4](#)

8 of 16

Number of the forum's 16 speakers who are [Royal Society](#) Fellows

What I found it...

Surprising that the report's conclusions, published almost four years after the forum, don't mention any studies published in the intervening years. Also surprising that the report doesn't mention the forum's date, location or number of attendees. Also surprising that the report doesn't mention the forum's date, location or number of attendees.

What the report claims

"Space weather can affect the performance, life or reliability of spacecraft and navigation and communication systems, and can pose a risk to human health and safety." ([page 6](#))

Reading from the speakers

Of the 16 speakers listed in the report's [publication info](#), 8 are Royal Society Fellows, and 4 are from the Met Office, the UK's national weather service. Of the 8 Fellows, 3 are from the Met Office. The publication also lists 1 speaker from the European Space Agency, 1 from the UK Space Agency, 1 from the UK Science and Technology Facilities Council, 1 from the UK Space Weather Operations Centre, 1 from the UK Space Weather Service Office, and 1 from the UK Space Weather Strategic Advisory Team.

Is the method sound?

The report doesn't say how the forum's speakers were selected, or how many applied to speak. It also doesn't say how many people attended the forum, or whether they were invited or applied to attend