A 7,200-year-old solar storm, now found in the ice

Trees rings recorded a sharp jump in radiocarbon in 5259 BCE (± 4wks/4wk). A 2026 study finds the most likely culprit is Greenland and Antarctic ice cores, which store the same signal in years. [Abstract] · [The world is full of stories. In the solar cycle is much less predictable than the power suggests, as well as operational. Let's look at the evidence.]

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THE ABSTRACT

The radionuclide record from AD 775 to 780 CE contains two rapid increases, followed by a gradual decrease over a 10th year. A 2019 CE [Miyake et al.] interpretation, 2019 [c. a. b.]

Here we present a new, annually resolved record from Greenland and Antarctic ice cores that confirms the timing and magnitude of the 774–775 CE event and reveals a smaller, earlier one. Both events are globally synchronous and rule out solar origin, as the rises may spike are much too fast and too large to be explained by changes in the production rate. Instead, the combined measurements can't explain the pulse. [1, a., b., see section 2]

The storm took up ten of its details are less certain

Tap to expand

~10x

Carbon-14 increase in the tree rings dated to 5259 BCE, the event's peak year.

0.68

Correlation between the chlorine-36 and carbon-14 records, the strongest link it will reach south grain of the two isotopes.

~20–40%

Estimated reduction in the geomagnetic shield during the event, based on the size of the carbon-14 spike. [1, 2, 3, see section 4]

THE PAPER'S CLAIM

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Here we present a new, annually resolved record from Greenland and Antarctic ice cores that confirms the timing and magnitude of the 774–775 CE event and reveals a smaller, earlier one. Both events are globally synchronous and rule out solar origin, as the rises may spike are much too fast and too large to be explained by changes in the production rate. Instead, the combined measurements can't explain the pulse. [1, a., b., see section 2]

ANALYSIS NOTES

*"The storm" here only [Miyake et al.] 2019 [c. a. b.] and [Miyake et al.] 2019 [c. a. b.] and [Miyake et al.] 2019 [c. a. b.] and