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Gigantic asteroid collision 470 million years ago caused Earth to freeze over, scientists say Asteroid 93 miles across broke apart between Mars and Jupiter, flinging dust to Earth and blocking light from the sun **Phoebe Weston** Science Correspondent | @phoeb0 | 14 hours ago

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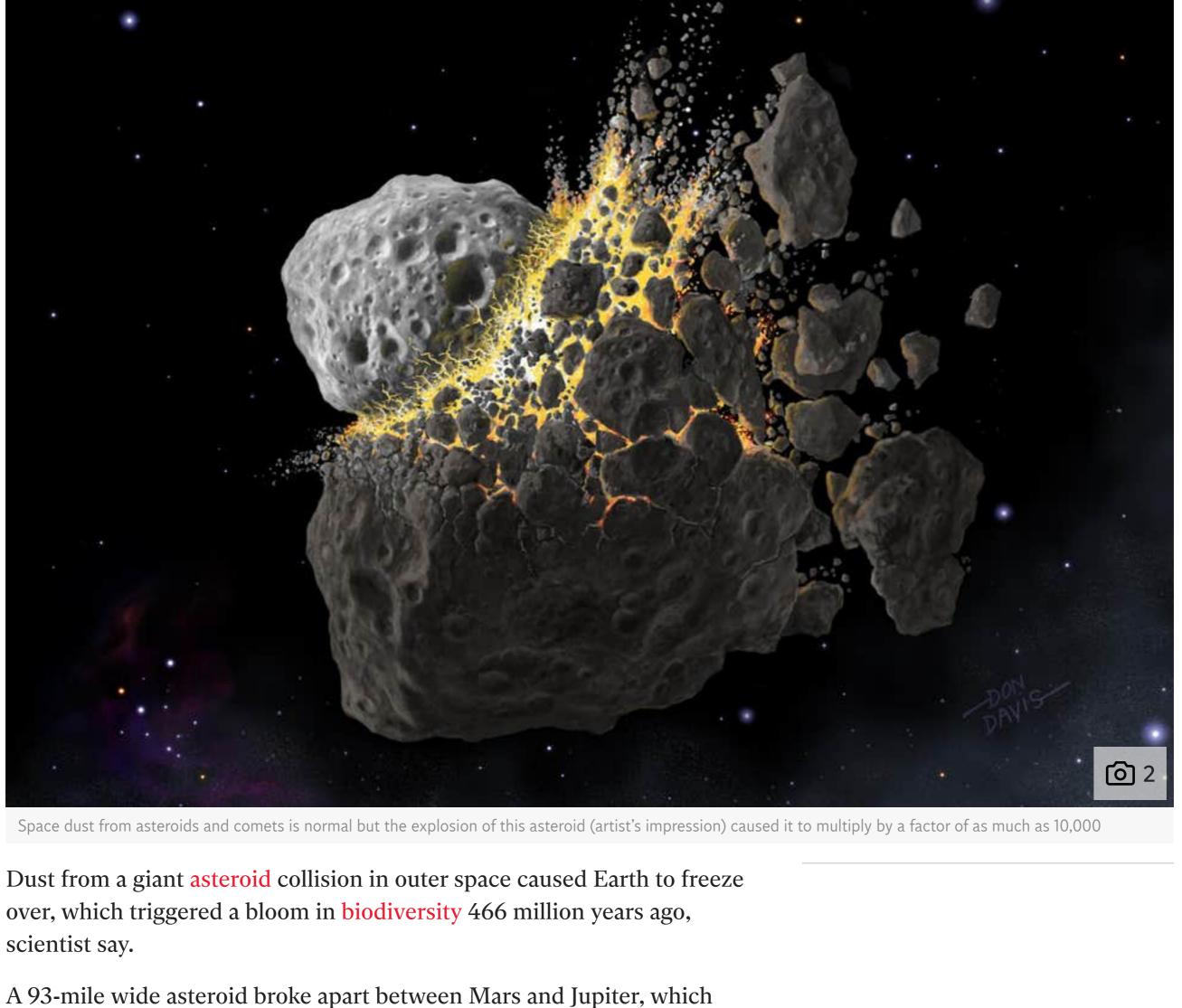
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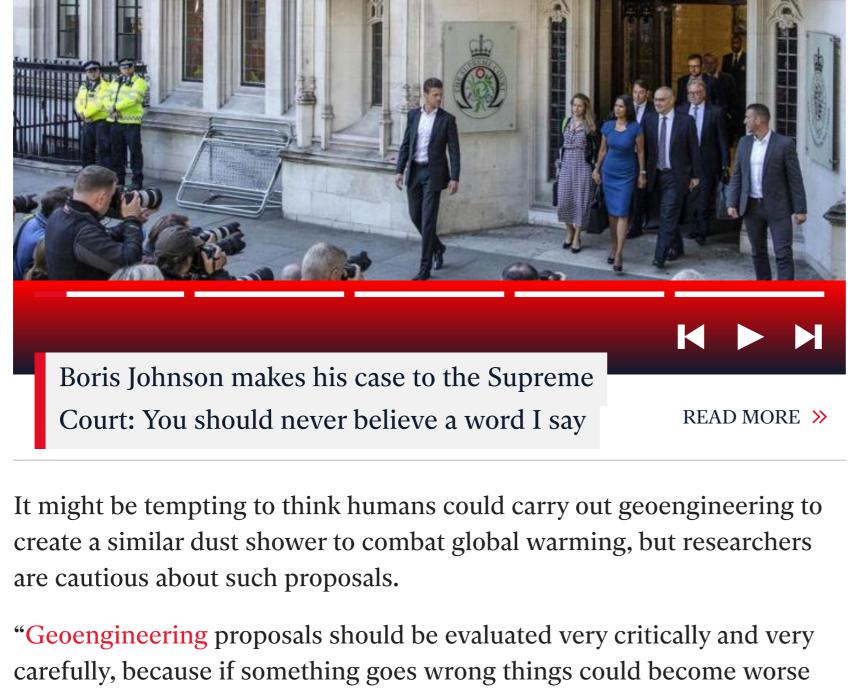
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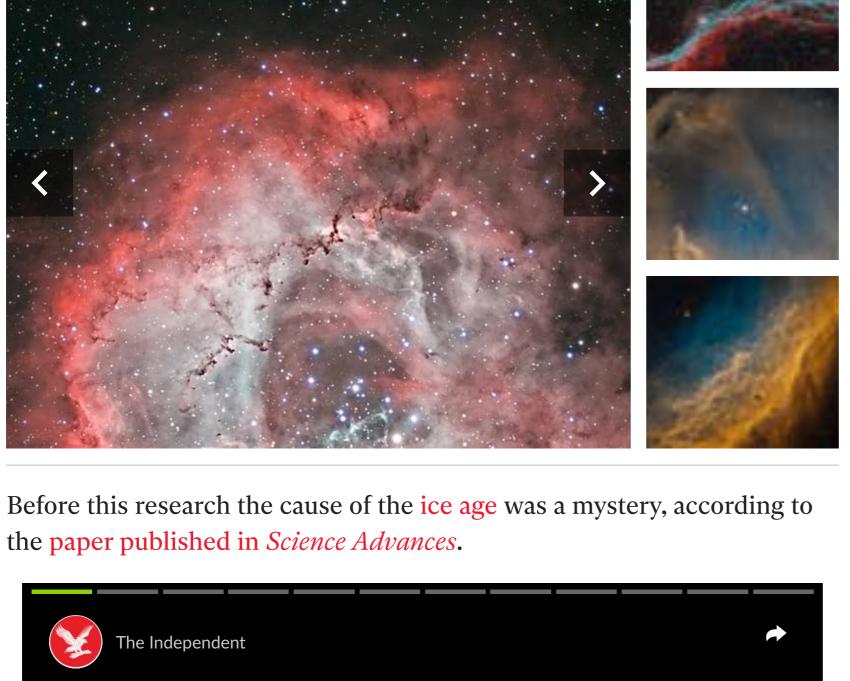
flung huge amounts of dust towards Earth, blocking light from the sun and causing dramatic global cooling.

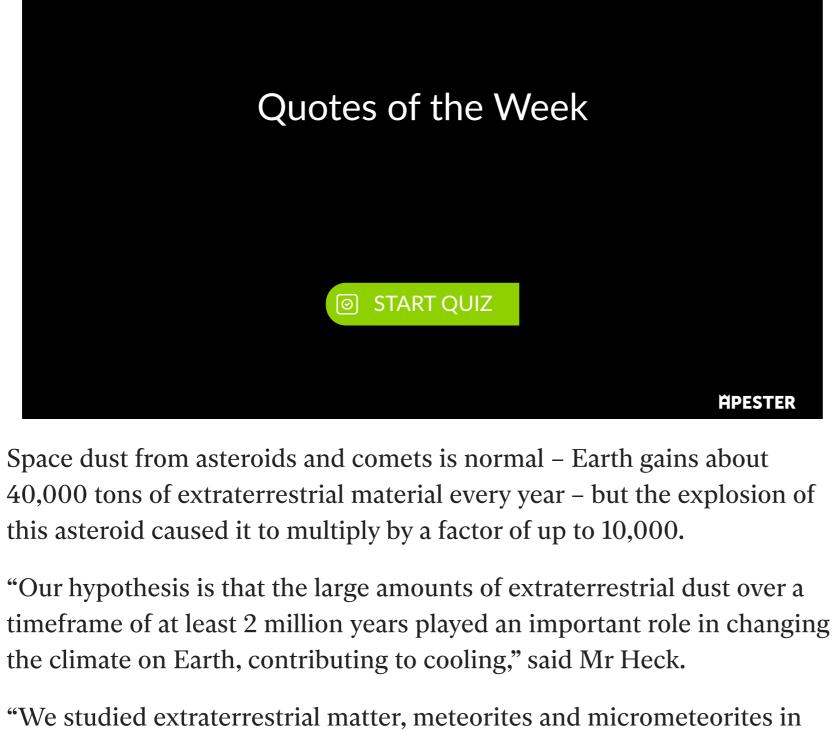
The dust floated down to Earth over a period of 2 million years, which meant the cooling was gradual enough for species to adapt. New

creatures evolved to survive in regions with different temperatures. TOP ARTICLES 1/5



than before," said researcher Philipp Heck, a curator at the Field Museum and associate professor at the University of Chicago. Space as seen from a Grandmother's garden **Show all 10**





"And then we extracted the extraterrestrial matter to discover what it was and where it came from."

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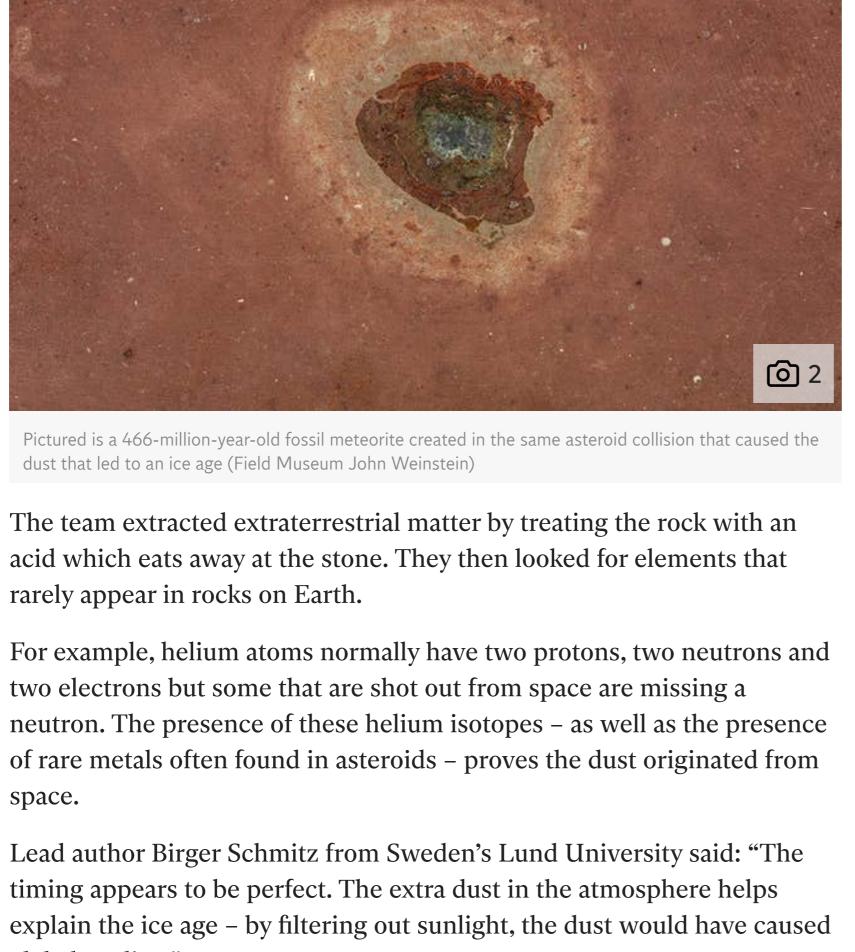
the sedimentary record of Earth, meaning rocks that were once sea floor,"

he said.

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global cooling." **Read more** Although this cooling proved Asteroid that killed beneficial to life on Earth, fastdinosaurs hit with force of paced climate change can be 10bn atomic bombs catastrophic.

"In the global cooling we studied,

we're talking about timescales of

millions of years," Mr Heck said.

"It's very different from the climate change caused by the meteorite 65 million years ago that killed the dinosaurs, and it's different from the global warming today – this global cooling was a gentle nudge. There was less stress." Mr Heck said it was undeniable the world was experiencing global warming.

Any idea that's reasonable should be explored."

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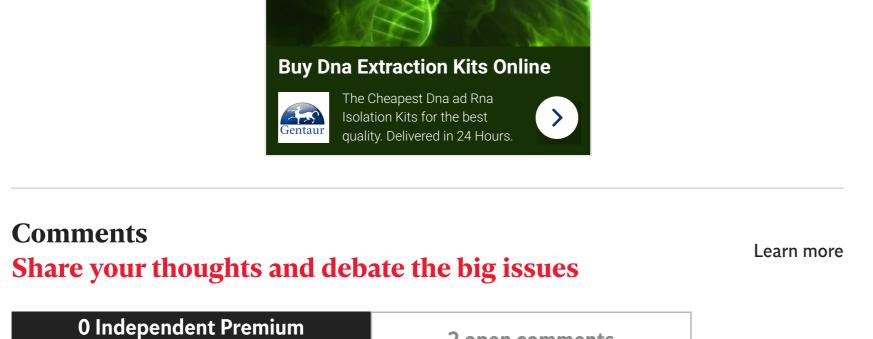
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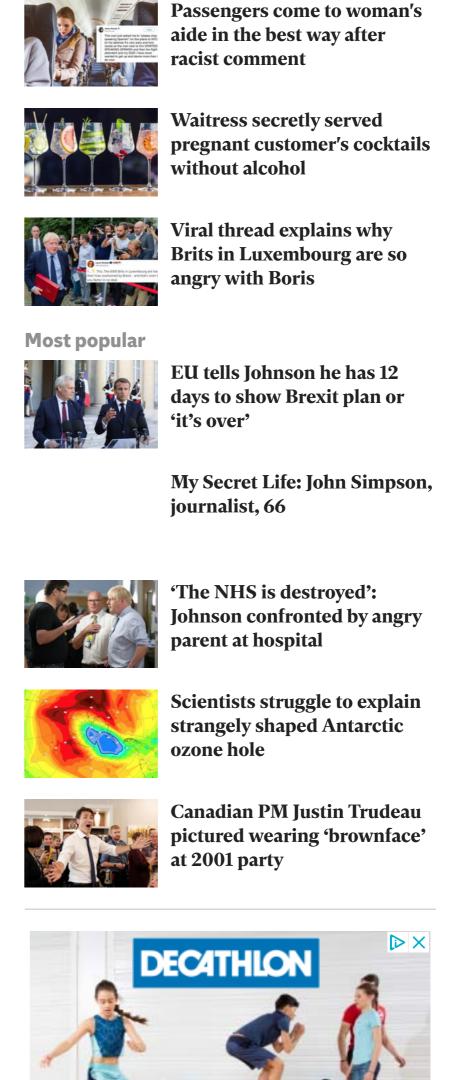
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In terms of looking at geoengineering options, he said: "We need to think

about how we can prevent catastrophic consequences, or minimise them.



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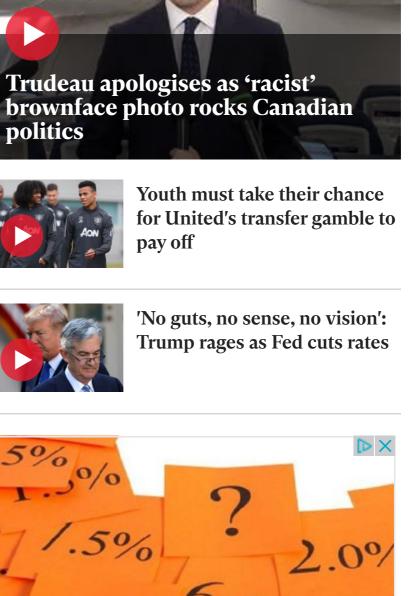
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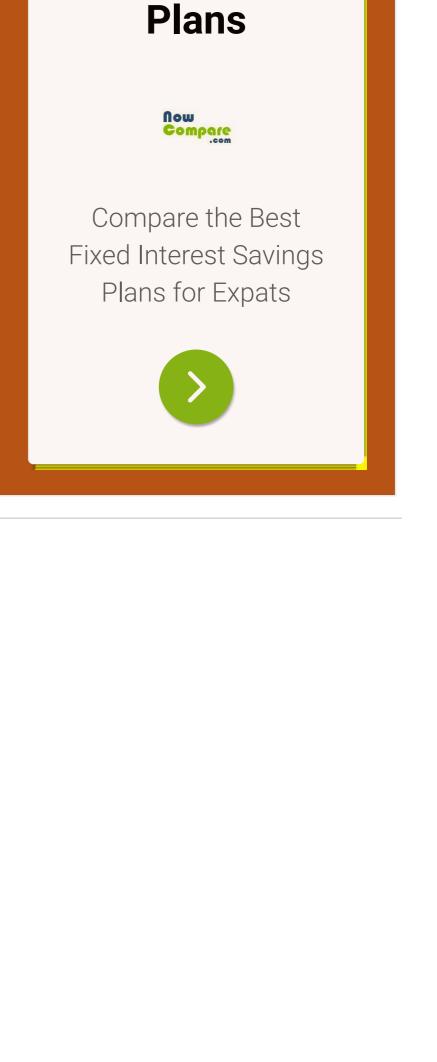
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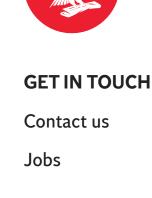
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