

Found evidence of Sun storm in wood rings

Scientists have recently demonstrated that the tree's rings still contain evidence of past solar storms. From there, it is possible to define in detail the dates of ancient Egypt, the Mayan civilization or the Bronze Age.

The wood is formed from the lines of wood or wood fibers. This is a very complex process of biology, physics and chemistry.

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Similar to fingerprints, special signs of solar storms can play an important role such as time traces in wood, papyrus, clouds and any species of living plants or organic materials from too the past.



Tree rings contain evidence of past solar storms.(roundstripe / Shutterstock.com)

If scientists can recognize a solar storm's **signal** in a particular ancient object like papyrus rolls, they can correctly connect it to events that occur in the ring wood of the tree, giving the exact number of years that the Sun storm was formed.

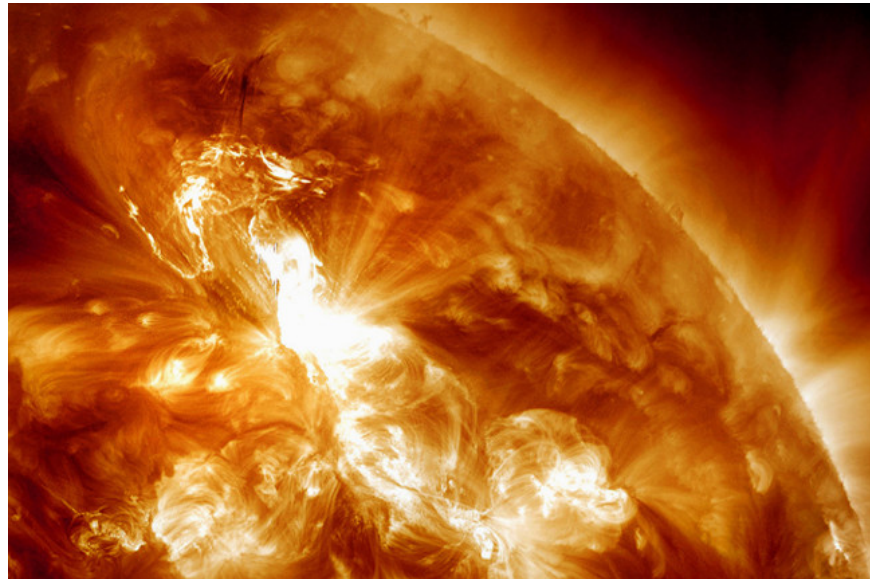
" In the past, we have estimated the time for incidents to occur, but evidence of this round of trees can reset the chronological age, " said Michael Dee, the team leader from Oxford University in the UK. regard important world civilizations "

When solar storms occur, a large amount of radiation escapes from the Sun in a stream and can reach the atmosphere of Earth. This makes plants store a large amount of **radioactive isotopes of carbon - 14** in their cells, 20 times more than carbon - 14 compared to normal, and therefore this is the correct basis to determine historical milestones.

Currently, the researchers date a number of objects using radiocarbon methods through a comparison of the ratio of carbon-14 and conventional -12 carbon.

Because carbon - 14 decays at more or less than expected by comparing the amount remaining with carbon - 12, researchers can then estimate the age of some things in the range of 50 to 100. five years old.

However, the team has now come up with a more accurate method by searching for **14-spikes carbon** and using wood rings to count the number of years that occur.



In 2012, Japanese scientist Fusa Miyake connected a **spike in radioactive isotopes** to a solar storm in 775 AD (According to Anglo-Saxon records, " *a red cross* " strange has appeared in the sky in 774 AD. This is the first discovery of the relationship between the ancient Sun storms and the unusually high level of carbon - 14.

The research team from Oxford University identified the second event called **Miyake** dating to 994 AD. They are now suggesting that researchers can use this technique to specifically identify the dates of ancient Egypt, the Mayan civilization or the Bronze Age. Currently, we only have preliminary knowledge of what happened in these cultures and it is difficult to determine the specific dates because our calendar is very different from that era.

But what's interesting is that it is not only the tree rings of the tree that contain traces of carbon - 14 but any living plants at the time of the solar storm can have this radioactive isotope, such as papyrus reeds or cellulose fibers woven into linen. In the next step, the researchers will find more spikes within the tree's age and then separate the five events that occur.

In the past, researchers have never paid attention to carbon - 14 spike because they **analyzed the tree's age ring** in a decade at a time and Solar storms only affected the tree's age round. .

But the team has come up with a mathematical system that allows researchers to re-examine existing data to effectively determine the timing of events. This information may only tell us more about the history of the sun's activity but it can also be combined with historical documents to determine the accuracy of the past.

Dee told The Guardian magazine *"The core issue here is that we have long been connected to chronology. In the ancient kingdom of Egypt, we have the whole order of kings, jobs. setting the order of kings is done quite well, we also have a good reason to determine their reign. "*

"If two or three spikes were found in the third millennium BCE, we could not only clarify the 400-500 years of continuous reign of the ancient Kingdom, but also be able to check the middle years. the dynasties and not missing the year because the wood ring of the year has been fully set up , " Dee said.

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