Will the Earth be affected if the comet once destroyed the dinosaurs hitting the Sun?

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1. 20 interesting facts about light you may not know
2. The Earth's core and the Sun's surface, which is hotter?

According to estimates by the scientists, the dinosaurs wiped out dinosaurs have a diameter of at least 10,000 meters and plunged toward Earth at speeds 40 times the speed of sound. Its collision with Earth creates an explosion that destroys up to 100 trillion tons of TNT - equivalent to about 7 billion times the medium-sized atomic bomb.

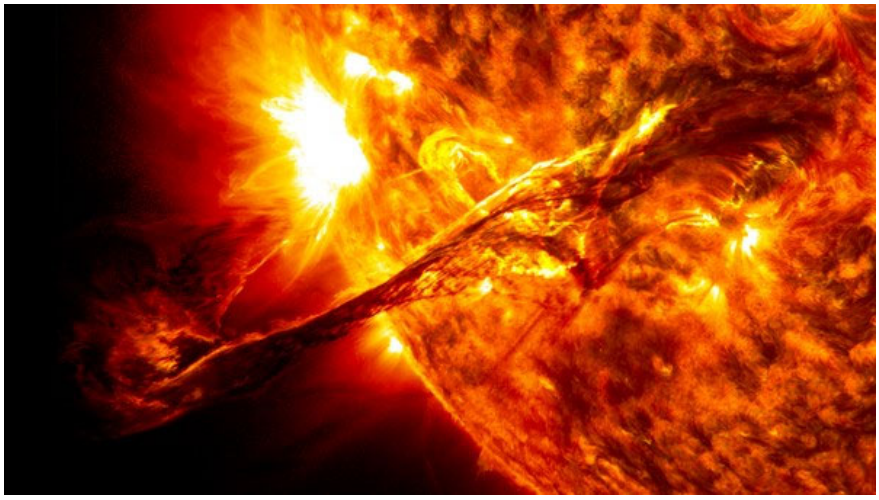
What if that comet stabbed into the Sun?

First of all, we learn a little bit about the previous comet and Sun to be able to make the most accurate conclusion.

Comet is a giant object, composed mainly of rock and ice, orbiting around the Sun. In the process of moving, the matter of comets is melted by solar winds, forming dust and gas tails.

Most comets are far away from the Sun - they are called Oort Cloud. But there are also a few comets called Sungrazer that can reach very close to the Sun, only a few thousand kilometers.

The Sun is a giant mass of energy, its temperature can reach millions of degrees C. The Sun has a limit called Roche Limit (the closest distance a celestial body can reach the Sun.)), any object that passes will be torn apart by the enormous gravitational force.



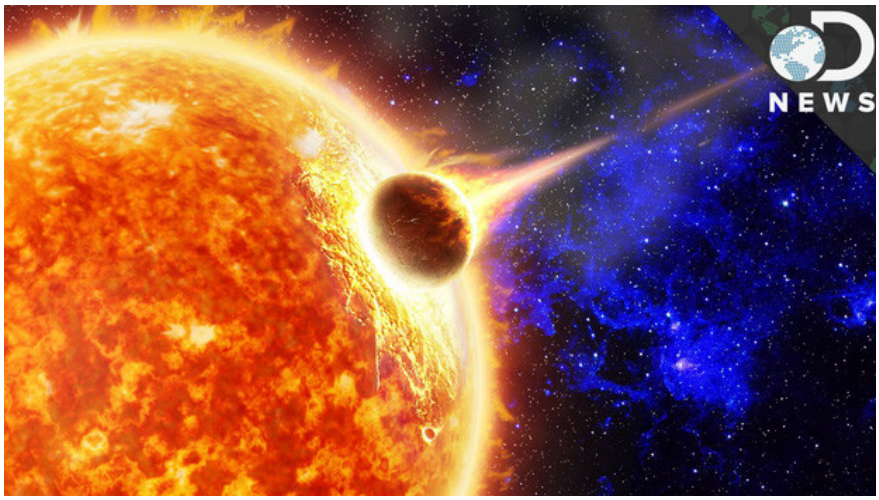
What if comets exceed the Roche limit?

Most comets will be torn to countless small pieces if they exceed the Roche limit. Only comets have a volume and size that is sufficiently thick and firm to safely pass. At this time, it will face another challenge, which is solar radiation, the extremely strong and dense radiation that causes us to burn on the ground. It will cause the ice to melt and the structure of the comet to weaken, breaking into pieces.

However, historically some comets 'survived' after this process, such as Comet Lovejoy in December 2011, or ISON comet in 2013. But their sizes are all small and the tail became brighter (because some of the material melted).

Terrible consequences when colliding with the Sun and whether Earth is affected?

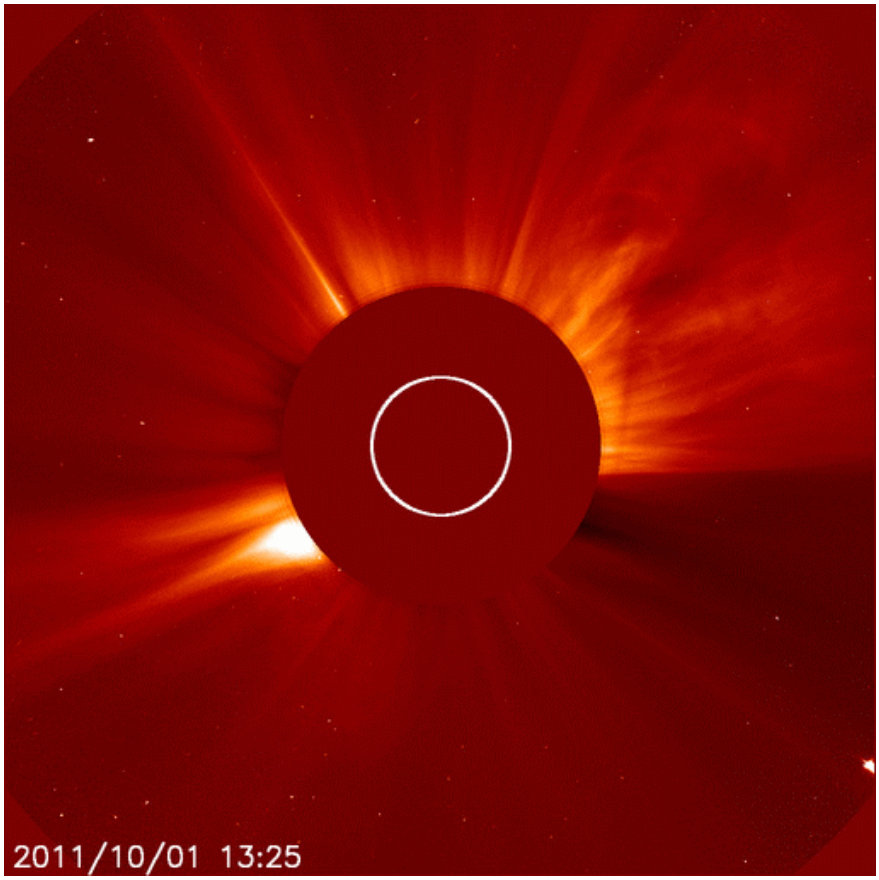
Although it is rare, there is still a comet that has enough magnitude and mass to overcome the terrible effects of the Sun.



At that time, the velocity of the comet can reach 600km / s. But under the compressive force created by millions of degrees of hot gas, it would quickly create a super-powerful, explosive explosion that is equal to a solar storm, only on a smaller scale.

Large amounts of UV and radiation were released after the explosion, and it also caused the Sun to . shake.

The sun is about . 330,000 times more massive than the Earth, but this explosion can cause it to vibrate, so we can imagine how powerful it is.



The explosion occurs when comets hit the Sun.
But it has no effect on the Earth at all.

As for the comet who destroyed the dinosaurs on Earth, it is still considered small and cannot survive the limit of Roche, let alone the collision with the Sun.