

# What will the Earth do if the Moon suddenly disappears?

The Moon and Earth are closely related. If the Moon abruptly disappears, everything on Earth will turn upside down, change the tide, change the axis of rotation, causing tsunamis, earthquakes and climate change.

The Moon is the only natural satellite orbiting the Earth, with elliptical orbits with an average distance of 384,000 km. Scientists believe that about 4.5 billion years ago, the early Earth collided with a small planet called Theia that formed the Moon.

1. Calculated the time "Moon touched Earth"
2. Why is the Moon red like blood when the total lunar eclipse occurs?
- 3.

Do you know what a solar eclipse looks from the Moon?

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## The tide will rise at noon

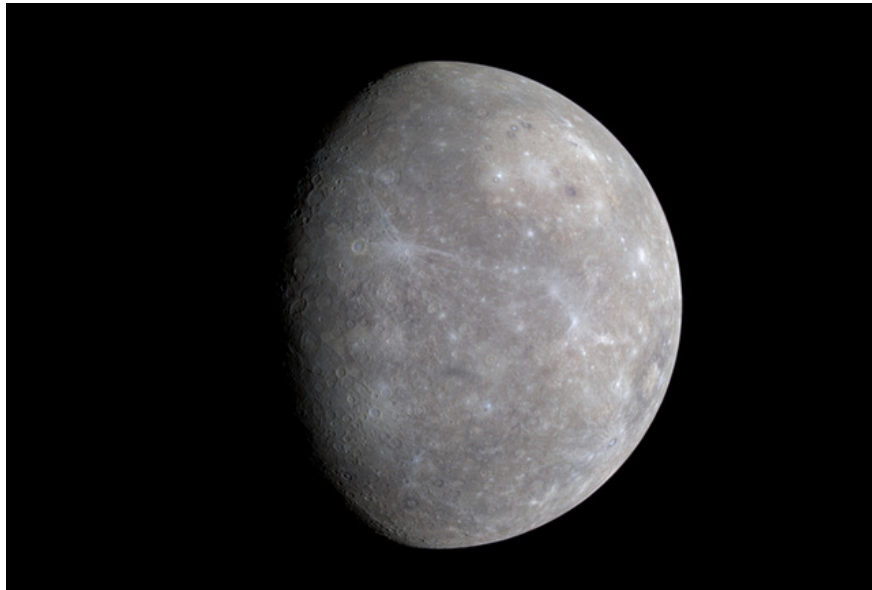
We all know, the Moon is the main cause of tides on Earth. Without the Moon, the cycle of the tide will still occur but then it will act according to the gravity of the Sun.



This means that at noon every day, when the Sun is at its highest position, the tide will rise. And since the Sun causes a tidal effect of only about 40% of the Moon's level, the tidal altitude will now be only half that of the Moon's existence.

### **Volcanoes and earthquakes appear more often**

Thanks to gravity and orbit around the Moon's Earth, Earth's orbit has been stable for many years (the change is very small, negligible). Therefore, if the Moon disappears, the orbit and the rotation cycle around the Earth's axis will be lost.



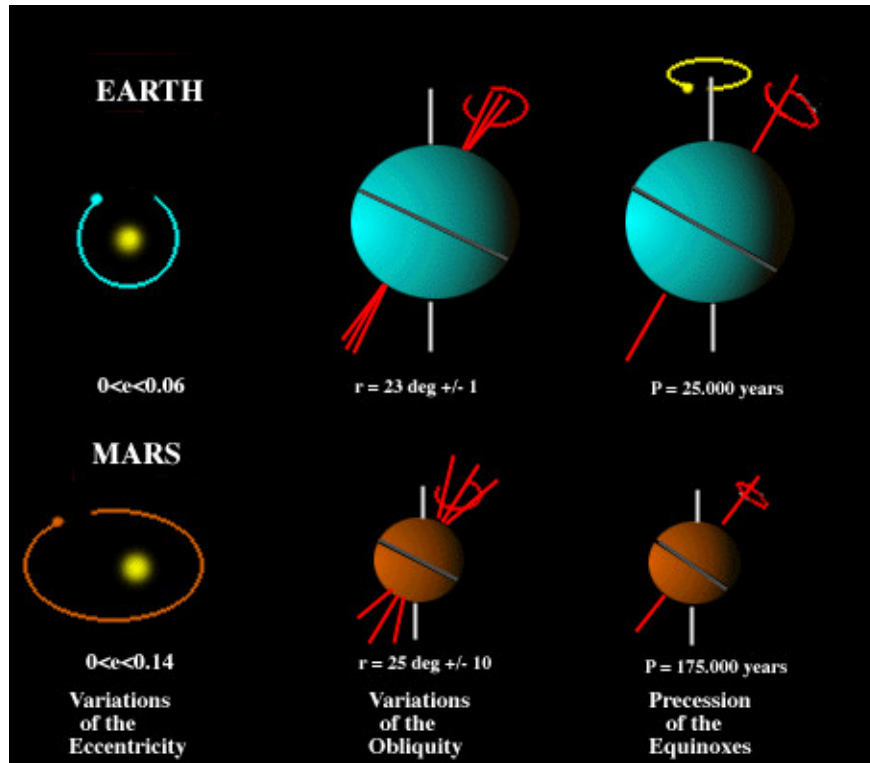
This will cause the climate on Earth to change in an unpredictable way, affecting the living habits of animals and humans. At that time, if you cannot adapt, the creature on Earth will not be able to survive.

The Moon helps the Earth rotate around an inclined axis in a stable way. If the Moon disappears, the Earth will always be swaying causing geological changes that lead to many earthquakes and volcanic eruptions.

## A day on Earth will only last 6-8 hours

The tidal friction caused by the Moon acts like a brake on the speed of the Earth's rotation. If the Moon disappears, according to calculations by Earth scientists will circulate faster now to 3-4 times. That is, then, one day on Earth will not last 24 hours but only 6 to 8 hours, we will have about 1,000 days a year.

## The Earth's axis will change like a pendulum



Our Earth has an orbit with an angle of 23.5 degrees, and ranges from 22 to 25 degrees. Without the Moon, this oscillation will increase to 0 - 85 degrees. That means our Earth will be turned upside down. The seasons will disappear at a 0 degree tilt. The 85 degree inclination will cause a portion of the Earth to tilt toward the Sun, many densely populated areas will be turned into the polar regions of the Earth, the two poles can become equatorial and melt the ice and raise the ink. seawater.

All of these terrible things are just hypotheses given by scientists based on the effects of the Moon on Earth. During the past 4.5 years, the Moon has been with the Earth and it will continue very, very long, maybe even never disappear.

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