

# The Earth used to be purple and 8 secrets of little surprise

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1. 5 outstanding scientific discoveries discovered in 2017
2. What will happen if the wind stops blowing on Earth?

## 1. No one knows what the structure of the Earth is.

According to the study of seismologists, we know the inner structure of the Earth includes:

1. The inner core is solid.
2. The outer core layer is molten lava.
3. Intermediate layer called mantle or mantle, located at a depth of 30 to 2,900 km.
4. The rock cover can slip freely.

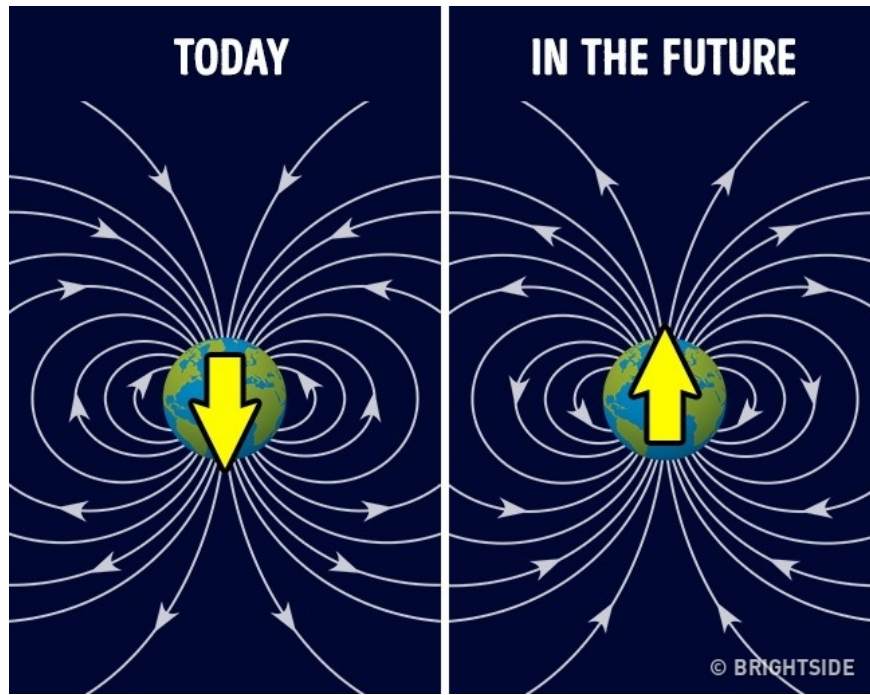
But what the mantle is made from is still a mystery to researchers because we can't dig it down to this layer or have any evidence of its structure. Until now, the deepest hole that can be digged is the Kola drilling hole in Russia, which is only 12.3 km deep.



Kola drilling hole in Russia - The deepest hole that can even dig.

## 2. The two poles of the Earth are interchangeable

Scientists have shown that Earth's two magnetic poles can change positions and turn around.



This phenomenon has happened many times in the history of the Earth. The last time Earth changed polarity was 10 million years ago, and it is likely that this will happen again in the future. Until now, scientists still do not know how this phenomenon can occur.

1. The Earth's magnetic field is about to reverse the polarity?

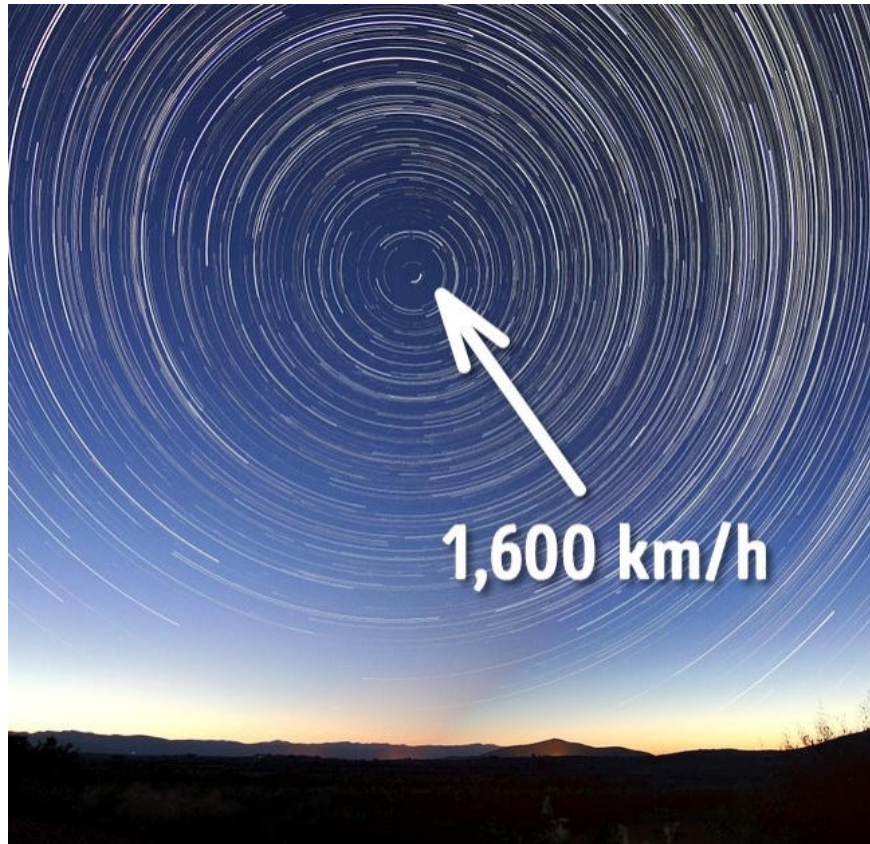
## 3. The Earth used to have two moons



Scientists claim that, 4.6 million years ago, the Earth had two natural satellites.

The second satellite exists with the same orbit as the Moon and has a diameter of about 1,200 km. After several million years, these two satellites have collided. This may explain why the two halves of the Moon are so different today.

#### **4. The Earth actually turns very fast**



The Earth consists of both the atmosphere and everything on the planet's surface rotating at a tremendous speed of more than 1,600 km / h, while the speed around the Earth's Sun is 108,000 km / h.

People can live and function normally when standing on the ground because we, everything around us and the Earth are rotating at the same speed.

We can feel this movement by the wind but since the whole atmosphere also moves at the same speed as us, we don't feel anything.

If the Earth suddenly stopped spinning, we could feel this movement. But it will not be pleasant at all, everything on Earth will be swept away at more than 1,600km / h.

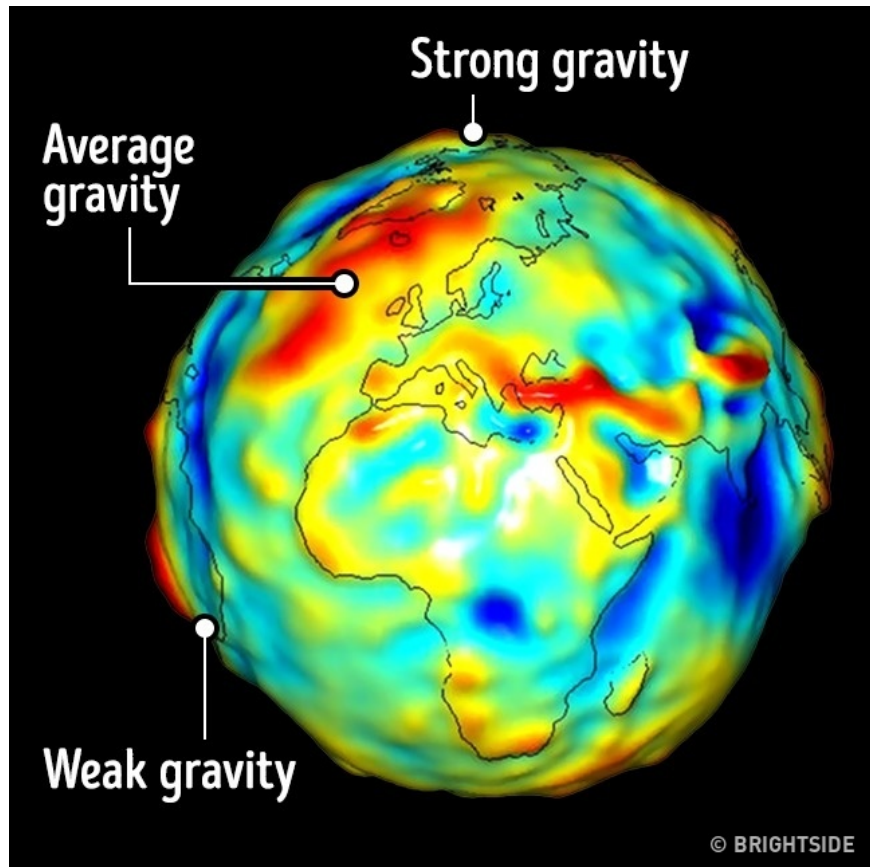
## **5. Time on Earth is 'getting longer' every day**



620 million years ago, one day on Earth only lasted about 21.9 hours. But the Earth is getting slower and slower, so in the future, our day will be 25 hours long.

Scientists have shown that, after every century, the Earth's rotation slows by about 1.8 milliseconds, meaning the time of day will be 2 milliseconds longer. So, we have to wait another 200 million years to have 25 hours a day on Earth.

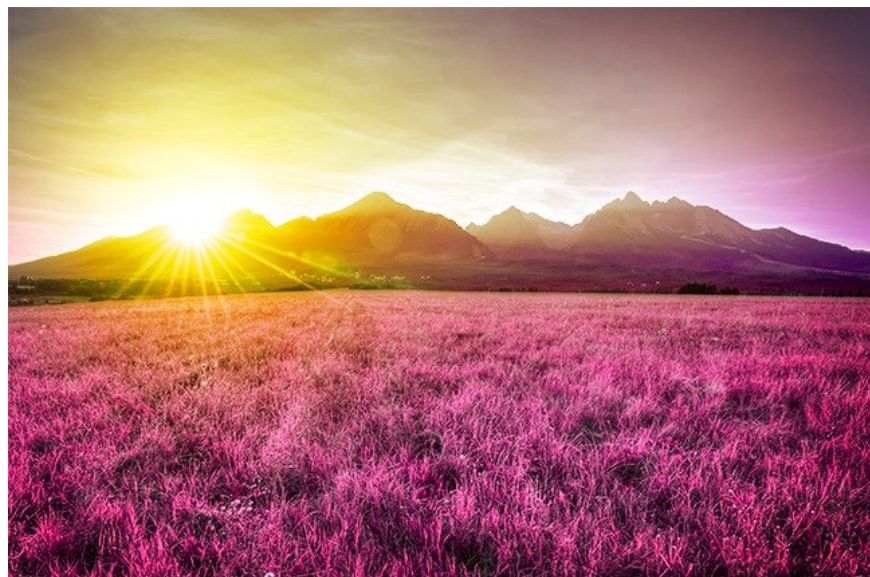
## **6. Gravity on Earth is not the same everywhere**



The Earth is not a perfect sphere, so the gravity of the Earth is uneven, there will be areas with weak gravity and regions with different strong gravity, even in places that are almost zero gravity.

Hudson Bay in Canada is known as the near-gravity place due to the low density of rocks here, caused by the rapid melting of glaciers.

## 7. In the primitive time Earth used to be purple



In ancient times, plants used retinal instead of chlorophyll to absorb light. This makes them reflect red and blue light. This is the reason why ancient plant species were red, not green, like today's plants.

This has led scientists to hypothesize that the pristine Earth used to be purple because it was covered by ancient plants.

## 8. The ocean is hidden in the ground



Scientists believe there is a huge ocean, and the amount of water contained in it is estimated to be three times greater than the amount of water all oceans on the Earth's surface.

In early 2014, researchers discovered "ringwoodite" - a material located at the transition zone, the transition zone (at depths of about 410 km and 660 km), which is proof that a giant sea of water exists beneath the surface of the Earth.

According to scientists, this underground ocean is dated to about 2.7 million years old, subject to tremendous pressure.

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