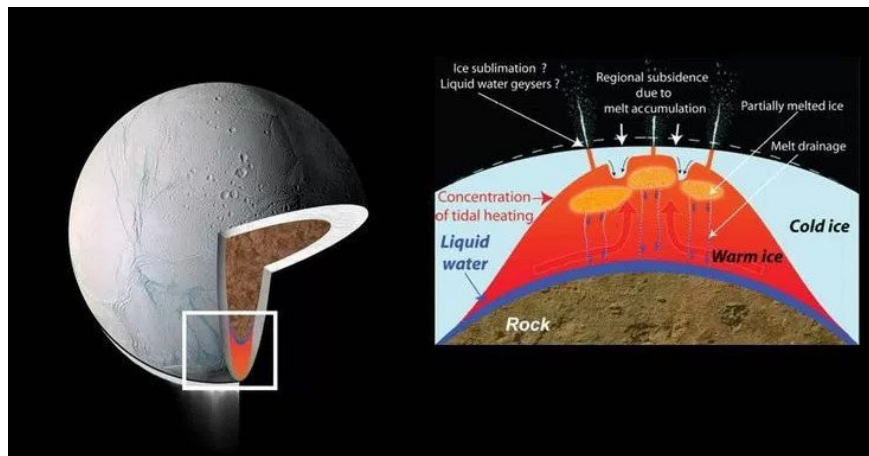


NASA announces a place that can survive life right in our solar system

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1 hour this morning, NASA has officially announced the great discovery, **Enceladus - Saturn's Moon** officially joins places that **are likely to exist in the solar system** . Accordingly, extraterrestrial life can exist right in our solar system.

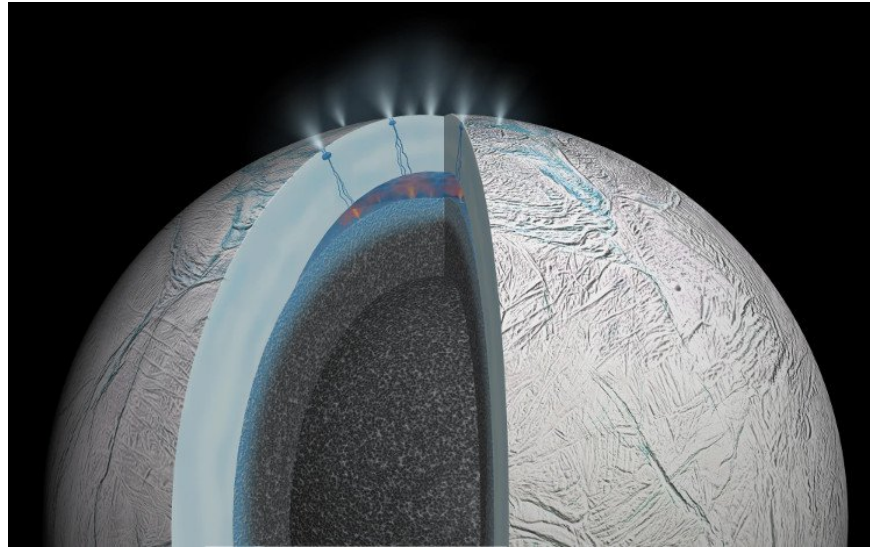
To have life needs to meet 4 conditions: water, necessary chemicals, a source of energy and enough time for life to grow.



Enceladus - Saturn's moon is capable of survival.

Fortunately, Enceladus - Saturn's moon, Saturn's sixth largest satellite, 887 million miles from the Sun, has possessed these three elements and it officially joins places where life is likely to exist. right in the solar system like Mars and Jupiter's Europa Moon.

According to NASA's announcement, the Cassini probe on Saturn has collected important evidence, showing that life is capable of developing within our solar system.



Beneath Enceladus's ice surface, there was liquid water.

Since 2004, Cassini has approached Saturn's orbit and discovered many interesting things on the planet such as the liquid methane sea on Saturn's Titan Moon.

And recently, it was discovered on Enceladus that there were **chemical reactions and hydrothermal reactions** . These are the necessary reactions to create an environment that allows microorganisms to survive and grow.

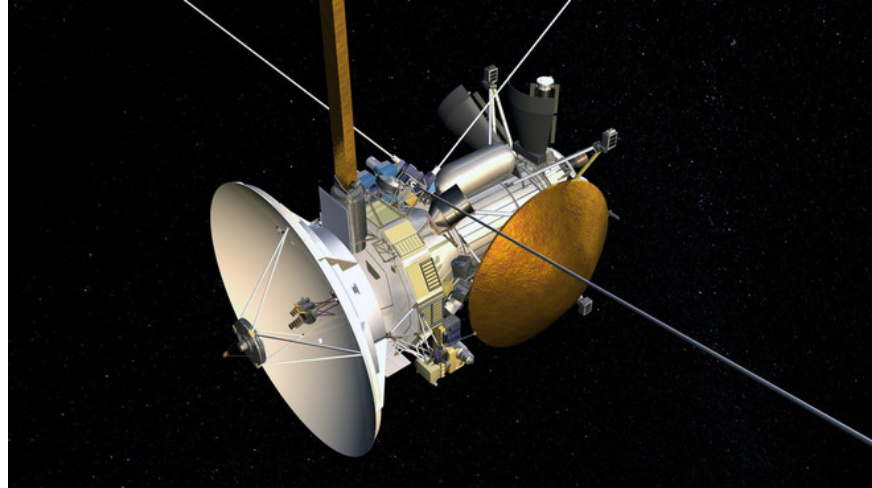


Cracks are emitting beams of matter onto the surface of the satellite.

Previously, NASA discovered that beneath Enceladus' ice surface there was liquid water. Based on cracks that are emitting masses of matter onto the surface of the satellite, experts confirm 1.4% of the released matter is hydrogen molecules, thought to be the product of Hydrothermal reaction is the same as on Earth. 0.8% of them have CO₂, and together with hydrogen, these are the chemicals needed for bacteria to produce methane, which Earth's ocean-bottom bacteria create.

According to scientists, if life exists here, there will be a single-celled tubular form, just like in the oceanic hydrothermal tubes on our planet. These are **life forms that exist without oxygen and do not need sunlight** . They even believed that before harsh conditions forced them to change, they might have been similar to life on Earth.

Although this finding does not clearly state that life exists on Enceladus, this is a huge step forward to prove it.



On October 15, 1997, Cassini probe worth \$ 3.3 billion was launched into space. On July 1, 2004, Cassini reached orbit around Saturn and became the first space probe to fly around the planet.

NASA has a plan to crash Cassini into the surface of Saturn, ending its 20-year mission of exploring life on this planet and its moons on September 15, 2017. The cause is said to protect Enceladus because the ship is at risk of causing Enceladus to infect the Earth. If that happens, we won't prove anything.

1. The new discovery of life on planet GJ 1132b, "super-Earth" is 39 light-years away
2. Maybe the 2.0 solar system is not the "cradle to nurture life" as NASA hopes

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