

The discovery of the 'Second Earth' can exist only 4.2 light-years away from Earth

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This rocky planet is located in a life-sustaining region in **Prose - Proxima Centauri** , the star closest to our solar system and named **Proxima b** .

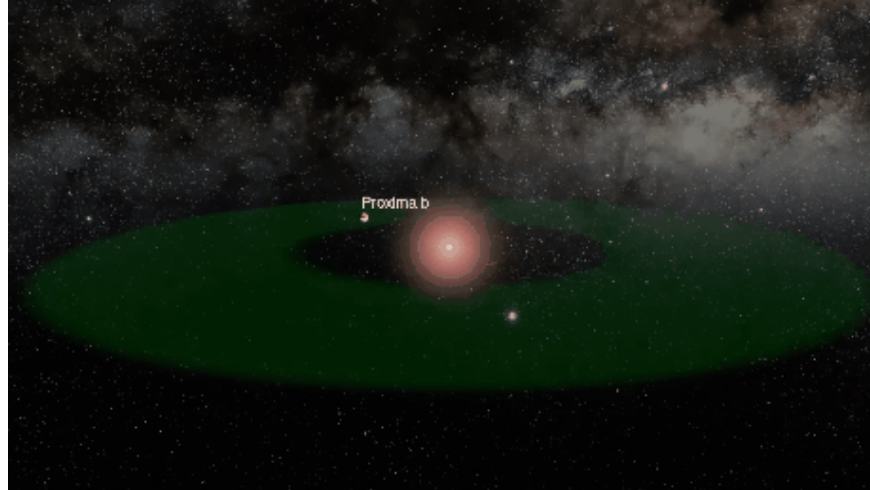


According to research findings published yesterday in the journal Nature, Proxima b was discovered through **Doppler effect** data collected by telescopes from the Southern Hemisphere Research Agency in 2000. By 2014 and 2016. Doppler data allows scientists to study tiny movements around the parent star, resulting from planetary gravity orbiting.

Proxima b is 7 million kilometers from Jinhua, equal to 5% of the Earth's distance to the Sun. But the temperature in this planet is much lower than that of the Sun, so Proxima b is still within the " *life-sustaining* " distance. At that temperature, **Proxima b can completely have water on its surface and thus has suitable conditions for developmental life.**

With a distance of 4.2 light-years, future generations of spacecraft can carry exploration robots to Proxima b. It may also be a new destination for travelers from Earth.

Proxima b only takes 11.2 days to complete an orbit at a speed of nearly 5 km / h.



Scientists have not yet identified an atmosphere on this planet. Because Proxima b is subjected to **400 times more powerful ultraviolet and X-ray rays than Earth** emitted from its parent star, making the habitat on this planet full of radioactivity. This could make the planet's atmosphere impossible to exist.

Scientists who need to study more deeply about the process of forming this planet can draw conclusions. Has it been created close to Satan or has it been formed remotely since the water was present on it and nearly progressed to Cime in this time? If it is the second case, the rate of an atmosphere exists here is much higher.

To draw conclusions about the new planet, 31 researchers from 8 different countries have to analyze the data over the years.

" Success in finding the nearest planet outside the solar system is a lifetime achievement, the result of the passion and dedication of many international researchers. We hope to find inspiration that will inspire Future generations will be looking for life on Proxima b, "said Dr. Guillem Anglada-Escude at Queen Mary University in London, England, who led the research.

" If further research confirms that the planetary atmosphere is suitable for life development, this may be one of the most important discoveries we have ever made. Proxima Centauri exists for longer periods of time than ever. hundreds or thousands of times the Sun. Life on Proxima could evolve after the Sun died long, " said Dr. John Barnes of the Open University, UK, co-author of the study.



The Solar System (on the left) compared to the Subtle System (right).

The green area on the right is the "life-sustaining" area of Proxima Centauri, with Proxima b's trajectory in it.

Recently, Russian billionaire Yuri Milner invited Abraham Loeb at Harvard University to serve as adviser to his \$ 100 million **Starshot Initiative** program. This is a research and design program that underpins interstellar travel. Their first step is to create "*nano ships*" that can travel at 20% of the speed of light. Such a ship will be able to reach Zikong in a period of 20 years.

See Proxima planetary simulation graphics b

Proxima Centauri is a red dwarf located approximately 4.2 light-years away from the Solar System in the constellation Centaurus. It was discovered by Robert Thorburn Ayton Innes, director of Union Observatory in South Africa, in 1915. This star is the star closest to the Sun. The distance from it to the second and third nearest stars to the Sun, (Alpha Centauri A and B make up the Alpha Centauri binary star system) is 0.21 light years.

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