

Solar systems near earth





Overview

The Solar System, and the other stars/dwarfs listed here, are currently moving within (or near) the Local Interstellar Cloud, roughly 30 light-years (9.2 pc) across.

This list covers all known , , , and within 20 (6.13) of the . So far, 131 such objects have been found. Only to be visible without a.

Over long periods of time, the slow independent motion of stars change in both relative position and in their distance from the observer. This can cause other currently distant stars to.

• , • . Archived from on October 30, 2005. Retrieved October 24, 2005. • Nemiroff, R.;

The easiest way to determine stellar distance to the Sun for objects at these distances is , which measures how much stars appear to.

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How many star systems are closest to the Sun?

Using NASA and other scientific sources, Stacker compiled a list of the 50 star systems closest to our sun. Explore these systems to learn what they can reveal about the universe and which ones might provide the right conditions for habitable planets.

Where is the Solar System located?

The Solar System, and the other stars/dwarfs listed here, are currently moving within (or near) the Local Interstellar Cloud, roughly 30 light-years (9.2 pc) across. The Local Interstellar Cloud is, in turn, contained inside the Local Bubble, a cavity in the interstellar medium about 300 light-years (92.0 pc) across.

Which star system is closest to Earth?

The binary stars Alpha Centauri A and B are 4.37 light years away. Together



with Proxima Centauri, they make up the closest star system to Earth. Alpha Centauri A is known to host one unconfirmed planet candidate: Candidate 1 (C1): A potential Neptune to Saturn-sized planet orbiting at 1.1 AU, though this detection is not yet confirmed. 4.

Which star is closest to the Solar System?

The closest star to the Solar System, Proxima Centauri, is 4.25 light-years (269,000 AU) away. Both stars belong to the Milky Way galaxy. The Solar System formed at least 4.568 billion years ago from the gravitational collapse of a region within a large molecular cloud.

How many extrasolar planets are there?

Number of extrasolar planet discoveries per year through 2023. Colors indicate method of detection. From the total of 4,530 stars known to have exoplanets (as of July 29, 2025), there are a total of 989 known multiplanetary systems, or stars with at least two confirmed planets, beyond the Solar System.

How many planets are there in a star system?

Only star known with exactly seven confirmed planets. All seven terrestrial planets lie within only 0.07 AU of the star. All five known planets orbit around star A (none are circumbinary or orbit around star B). Closest system with exactly five confirmed planets.



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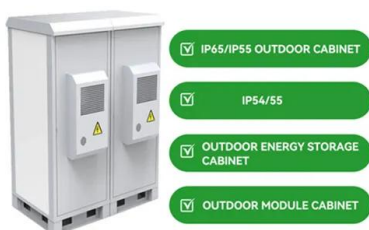


The 10 Closest Stars to Earth

The Sun is the closest star to Earth, providing light and warmth essential for life. Proxima Centauri, the closest star after the Sun, is part of the Alpha Centauri system. Barnard's Star is a red dwarf 5.96 light-years away and ...

[The Nearest Habitable Exoplanets: Are They Truly ...](#)

Will they answer back? The TRAPPIST-1 System - Seven Earth-Sized Planets! Distance from Earth: 39 light-years Host Star: TRAPPIST-1 (Ultracool Red Dwarf) Planets: Seven Earth-sized worlds Status: Three planets ...



[The Universe within 12.5 Light Years](#)

About the Map This map shows all the star systems that lie within 12.5 light years of our Sun. Most of the stars are red dwarfs - stars with a tenth of the Sun's mass and less than one hundredth the luminosity. Roughly eighty percent of all the ...

[10 Closest Stars to the Earth and Sun](#)

The 10 closest stars to the Earth and Sun are our stellar neighbors. They all reside within about 10 light-years of distance from us. Stars are the building blocks of the cosmos, illuminating the



universe with their light ...



Solar System

The most massive objects that orbit the Sun are the eight planets. Closest to the Sun in order of increasing distance are the four terrestrial planets - Mercury, Venus, Earth and Mars. Only the Earth and Mars orbit within the Sun's ...

[50 closest star systems to earth and what we might ...](#)

Using NASA and other scientific sources, Stacker compiled a list of the 50 star systems closest to our sun. Explore these systems to learn what they can reveal about the universe and which ones might provide the right ...



Eyes

5 ???· Eyes on Asteroids Track over 30,000 asteroids that are near Earth's orbit, see the next 5 closest approaches to Earth, and learn about current and historic NASA asteroid and comet missions in this real-time 3D simulation of ...



Comet 3I/ATLAS

5 ???· Is there a danger of this interstellar object hitting Earth? No. Although the trajectory of the object brings it into the inner solar system, it won't come close to Earth. As the comet 3I/ATLAS journeys through the solar system, it won't ...



[Four Tiny Planets Discovered Near Earth. After ...](#)

For a century, astronomers have been studying Barnard's Star in the hope of finding planets around it. First discovered by E. E. Barnard at Yerkes Observatory in 1916, it is the nearest single star system to Earth. Now, ...

[The Closest Stars to Earth \(Besides the Sun\)](#)

Shining brightly in this Hubble image is our closest stellar neighbour: Proxima Centauri. Proxima Centauri lies in the constellation of Centaurus (The Centaur), just over four light-years from Earth. Although it ...



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