

## Exoplanets

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### Exoplanets

Exoplanet Exploration Program NASA's science, technology and mission management office for the exploration of exoplanets. The program's primary goals, as described in the 2014 NASA Science Plan, are to discover planets around other stars, to characterize their properties and to identify planets that could harbor life.

### Exoplanet Exploration: Planets Beyond our Solar System

An exoplanet or extrasolar planet is a planet outside the Solar System. The first possible evidence of an exoplanet was noted in 1917, but was not recognized as such. The first confirmation of detection occurred in 1992. This was followed by the confirmation of a different planet, originally detected in 1988.

### Exoplanet - Wikipedia

All of the planets in our solar system orbit around the Sun. Planets that orbit around other stars are called exoplanets. All of the planets in our solar system orbit around the Sun. Planets that orbit around other stars are called exoplanets. Exoplanets are very hard to see directly with telescopes.

### What Is an Exoplanet? | NASA Space Place - NASA Science ...

For centuries, planets beyond our solar system—called exoplanets—existed only in theory and science fiction. It seemed nearly impossible to detect planets light-years away, since the relatively...

### Exoplanets - National Geographic

Exoplanets are planets beyond our own solar system. Thousands have been discovered in the past two decades, mostly with NASA's Kepler Space Telescope. These worlds come in a huge variety of sizes...

### Exoplanets: Worlds Beyond Our Solar System | Space

20 Intriguing Exoplanets In celebration of the 20 th anniversary of the first confirmed planet around a sun-like star, more than 60 leaders in the field of exoplanet observations chose their favorites among the nearly 2,000 known exoplanets. Some of the exoplanets are rocky, some are gaseous, and some are very, very odd.

### 20 Intriguing Exoplanets | NASA

Explore Data This continuously updated exoplanetary encyclopedia combines interactive visualizations with detailed data on all known exoplanets. Click on a planet's name to see 3D model of each planet and system along with vital statistics.

### Exoplanet Catalog - Exoplanet Exploration: Planets Beyond ...

Kepler-186f is the first truly Earth-size exoplanet ever found in its host star's habitable zone. The alien world, which lies 490 light-years from Earth, is just 10 percent bigger than our own...

### 10 Exoplanets That Could Host Alien Life | Space

List of exoplanets in the conservative habitable zone. In astronomy and astrobiology, the circumstellar habitable zone (CHZ), or simply the habitable zone, is the range of orbits around a star within which a planetary surface can support liquid water given sufficient atmospheric

pressure. Note that this does not ensure habitability, and that \* represents an unconfirmed planet or planet candidate.

### **List of potentially habitable exoplanets - Wikipedia**

Some exoplanets are sunless rogues, wandering through the galaxy in permanent darkness. That galaxy, the Milky Way, is the thick stream of stars that cuts across the sky on the darkest, clearest...

### **Exoplanets: Worlds orbiting distant stars | Space | EarthSky**

Some exoplanets are thought to be rocky bodies, while others may be full ocean worlds. These exoplanets orbit a range of star types, from M-type stars, known as red dwarfs, to sun-like G-type stars...

### **Exoplanets | Life on Other Planets | Second Earth**

The worlds orbiting other stars are called "exoplanets," and they come in a wide variety of sizes, from gas giants larger than Jupiter to small, rocky planets about as big around as Earth or Mars. They can be hot enough to boil metal or locked in deep freeze.

### **What in the World is an 'Exoplanet?' | NASA**

The two massive exoplanets found by astronomers follow wide, long orbits around the star. The planets are situated farther from their host star than Jupiter or Saturn are from the sun. The closet...

### **Telescope snaps first photo of sun-like star surrounded by ...**

Conservative Sample of Potentially Habitable Exoplanets This is a list of the exoplanets that are more likely to have a rocky composition and maintain surface liquid water (i.e.  $0.5 < \text{Planet Radius} \leq 1.5$  Earth radii or  $0.1 < \text{Planet Minimum Mass} \leq 5$  Earth masses). They are represented artistically in the top image.

### **The Habitable Exoplanets Catalog - Planetary Habitability ...**

An explosion of exoplanets The first exoplanets were discovered in 1992, and in less than three decades the number of known planets outside of our solar system has exploded. NASA estimates that the...

### **How Next-Gen Telescopes Will Help Us Hunt For Exoplanets ...**

The star TYC 8998-760-1 (top center) was photographed with two giant exoplanets (arrows), the first time astronomers have directly imaged more than one planet orbiting a sunlike star. The bright...

### **This is the first picture of a sunlike star with multiple ...**

Exoplanet Climate 'Decoder' Aids Search for Life May 18, 2020 — After examining a dozen types of suns and a roster of planet surfaces, astronomers have developed a practical model - an...

### **Extrasolar Planets News -- ScienceDaily**

This image, captured by the SPHERE instrument on ESO's Very Large Telescope, shows the star TYC 8998-760-1 accompanied by two giant exoplanets. This is the first time astronomers have directly...

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