

# **Are there other solar systems similar to ours**





## Overview

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The host star, L 98-59, is only 35 light-years away. It has at least four confirmed rocky planets and possibly a fifth. That's similar to our solar system's rocky worlds (Mercury, Venus).

The innermost planet, L 98-59b, is only about half the mass of Venus. It's the lightest exoplanet found so far using the radial velocity method. That technique measures the tiny "wobble" of a star caused by the gravitational tug of a planet.

The third planet is where things get really interesting. It's labeled L 98-59d. The researchers have calculated that up to 30% of this world's mass is likely water. If so, it's an ocean world. It's not known yet how similar L 98-59d might be to Earth in terms of its oceans. But it does tickle the mind. Is this world's water on the surface?

But there's more. There's new evidence for a fifth planet, labeled L 98-59f. Though still unconfirmed, this fifth planet is estimated to have 2.56 times Earth's mass. It orbits in 23.15 days. Wha.

Astronomers have found more than 4,000 exoplanets, worlds orbiting distant stars in our Milky Way galaxy. Many reside in planetary systems vastly different from ours. But, on August 5, 2021, astronomers said they've found a distant planetary system that has intriguing similarities to our sun's inner solar system. One of.

The host star, L 98-59, is only 35 light-years away. It has at least four confirmed rocky planets and possibly a fifth. That's similar to our solar system's rocky worlds (Mercury, Venus, Earth, Mars). But, in the L 98-59 system, the.

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Or is it.



But there's more. There's new evidence for a fifth planet, labeled L 98-59f. Though still unconfirmed, this fifth planet is estimated to have 2.56 times Earth's mass. It orbits in 23.15 days. What a slowpoke, right?

The fact is, like all the other worlds in this star system, L 98-59f is still quite close to its star. But here's something we haven't.

The find boils down to a statistical analysis: in the last four years, the MicroFUN survey has discovered only one solar system like our own — a system with two gas giants resembling Jupiter and Saturn, which astronomers discovered in 2006 and reported in the journal *Science* in 2008. Are planetary systems similar to our inner Solar System?

Many reside in planetary systems vastly different from ours. But, on August 5, 2021, astronomers said they've found a distant planetary system that has intriguing similarities to our sun's inner solar system. One of the planets is about half the mass of Venus, the planet next-door to Earth. Another could have oceans.

Could a solar system resemble our own?

Scientists have captured the first direct image of a solar system that closely resembles our own. The new image is a family portrait of sorts, showing two giant exoplanets orbiting a young, sun-like star, roughly 300 light years away.

Is there a second Solar System?

A second solar system, KOI-351, has been discovered by a team of European astronomers that is the closest parallel to our own solar system yet found.

Do all planets have similar mass?

Lastly, in similar systems, the planets all have similar masses. An example of this sort of system is TRAPPIST-1, with its seven known planets, all similar to Earth in mass and size. And – as it turns out – similar systems are the most common among the systems studied by these scientists.

Which planetary system is closest to our Solar System?

This artist's concept illustrates two planetary systems – 55 Cancri (top) and our own. Blue lines show the orbits of planets, including the dwarf planet Pluto



in our solar system. The 55 Cancri system is currently the closest known analogue to our solar system, yet there are some fundamental differences.

Is our Solar System a mixed or ordered system?

So, our solar system is in the Ordered class. And as it turns out, the researchers found that ours is the rarest of the four classes they identified. Conversely, in Anti-Ordered systems, the mass of the planets roughly decreases with distance from the star. In Mixed systems, the masses of planets vary from one planet to the next.



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### Of 4 types of planetary systems, ours is rarest

Before 1992, when astronomers found the first exoplanets, they assumed other solar systems - if they existed - would be similar to ours. Now, we've found more than 5,000 exoplanets. These



### The Closest Solar System to Earth is Even Weirder Than

Since 2016, astronomers have known that the solar system next door to ours--a triple-sun system--has one planet, Proxima b, located in the so-called habitable zone. Now a group of researchers



### Nasa discovers entire solar system that is 'remarkably ...

A solar system near to us is "remarkably similar" to our own, according to astronomers. The discovery could have huge implications for our understanding of how our own planet and its

### What are the most Earth-like worlds we've found?

What is an Earth-like world? Though there are some basic requirements for a world to be considered Earth-like, overall, it's difficult to narrow down a definition. We know that mass is key when it comes to identifying Earth-like



worlds: Some research suggests that objects just 1.6 times the size of Earth are more likely to be gaseous, making them less similar to our ...



### The Big Questions

General questions What is an exoplanet? An exoplanet is a planet outside our solar system, usually orbiting another star. They are also sometimes called "extrasolar planets," "extra-" implying that they are outside of our solar system. detailed answer Is there life on other planets? Earth is the only planet we know of with life on [...]

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### [Are there other planets like ours?](#)

Mars is the only other planet in our solar system that is within the habitable zone. But the right atmospheric pressure can only be found at the planet's low elevations, and there has been no confirmation that the planet has any liquid water.



### Why a solar system like ours might be more common ...

What observers don't see are solar system configurations like our own: rocky planets in the inner realms and gas giants on the outside, all taking months, years, decades, or more than a century



### Stellar Contradiction: Solar Systems Like Ours May ...

A significant fraction of planetary systems around Sun-like stars have had a very dynamic past, culminating with the fall of planets into the central star. A new study involving Monash University astrophysicists sheds light on ...



### NASA And Google Just Announced They've Found Another Solar System Like Ours

NASA and Google announced a "major discovery" on Thursday: another solar system with eight planets. That finding is due to the discovery of a new planet, Kepler-90i - a hot, rocky orb circling a sun-like star called Kepler-90, which is 2,545 light-years from Earth.



### [Exoplanets: Worlds Beyond Our Solar System](#)

Exoplanets are planets that orbit stars other than the sun and thus exist outside the solar system. The word "exoplanet" derives from the term "extrasolar planet," which hints at its





## We've Never Found Anything Like The Solar System. Is It a ...

Since the landmark discovery in 1992 of two planets orbiting a star outside of our Solar System, thousands of new worlds have been added to a rapidly growing list of 'exoplanets' in the Milky Way galaxy. We've learnt many things from this vast catalogue of alien worlds orbiting alien stars.



## Compared to Other Planetary Systems, Our Solar System Is ...

Our Solar System may be home, but researchers are now discovering that it's not really much like the other kids. According to a survey of 909 planets orbiting 355 stars, our home planetary system is a little on the dishevelled side - and others are a lot more orderly.

## [Life in the Universe: What are the Odds?](#)

In our solar system, Earth sits comfortably inside the Sun's habitable zone. Broiling planet Venus is within the inner edge, while refrigerated Mars is near the outer boundary. Determine the distance of an exoplanet from the star itself, as well as the star's size and energy output, and you can estimate whether the planet falls within the habitable zone.



## [Nearby solar system much like ours](#)

In other words, Epsilon Eridani's planetary system reflects both the inner and outer structure of the sun's, giving astronomers an insight into our solar system's early years.



### Scientists reveal first-ever photo of a solar system like ours

Scientists have captured the first direct image of a solar system that closely resembles our own. The new image is a family portrait of sorts, showing two giant exoplanets ...



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### Planets Around Other Stars

What are exoplanets? Throughout recorded history and perhaps before, we have wondered about the possible existence of other worlds, like or unlike our own. The earliest understanding of the solar system showed us that there were indeed other worlds in orbit about our Sun, and steadily growing understanding of their natures shows that all are [...]

### In all the universe, just 15 percent of solar systems are like ours

In their quest to find solar systems analogous to ours, astronomers have determined how common our solar system is. They've concluded that about 10 percent of stars in the



### We've Never Found Anything Like Our Solar System. Is It a Freak ...

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### How Many Solar Systems Are in Our Galaxy?

3 ???· Our planetary system is the only one officially called "solar system," but astronomers have discovered more than 3,200 other stars with planets orbiting them in our galaxy. That's just how many we've found so far. There are likely to be many more planetary



### **Solar System Similar to Ours, Discovered by Scientists**

Now scientists have discovered a solar system which they say is very similar to ours. The planetary system is orbiting the OGLE-2006-BLG-109L, which is somewhat half the size of the Sun.

### Second Planetary System Like Ours Discovered

Second Planetary System Like Ours Discovered. A team of European astronomers has discovered a second planetary system, the closest parallel to our own solar system yet found. It includes



### **Other Solar Systems Might Be More Habitable Than Ours**

22 Replies to "Other Solar Systems Might Be More Habitable Than Ours" Mike says: December 5, 2012 at 6:17 PM There has to be other life out there. I keep doing SETI and hope I find something





### Distant Solar System Found That Is Very Similar To Ours

If the system were aligned like our solar system, with no orbital tilt, it would provide evidence that only hot Jupiter systems are misaligned, formed as a result of planetary scattering." In order to resolve the puzzle, Sanchis-Ojeda looked through data from the Kepler space telescope, an instrument that monitors 150,000 stars for signs of distant planets.



### Are there any other solar systems similar to ours? : r/Astronomy

Are there any solar systems similar to ours in the outer space? I only know about 2, one is ours the second is the one which is 39 light years away from earth, if you know other solar systems, please write down Share Add a Comment Sort by: Controversial Old

### [Solar System Like Ours Found , Space](#)

There are now about 250 known planets beyond our solar system and some 25 multiple-planet system. Among those are setups with rocky worlds just a few times the mass of Earth.



### [Nearby solar system much like ours.](#)

The star, named Epsilon Eridani, is a similar size to the sun, though much younger, and as the closest planetary system that is similar to ours it is in a prime spot for research. The inner



## Planet System Similar to Ours Revealed , Space

Planet System Similar to Ours Revealed News By Ker Than published 6 November 2007 When you purchase through links on our site, we may earn an affiliate commission



## Solar system similar to ours? Richest planetary system discovered

Astronomers have discovered a planetary system containing at least five planets, orbiting the Sun-like star HD 10180. The researchers also have tantalizing evidence that two other planets may be

### [Searching for Other Planets Like Ours](#)

3 ???· Space Place... in a snap! Searching for other planets like ours Earth is the only planet we know of that has living things on it. But could there be others? Do planets outside our solar system, or exoplanets, also have living things? We don't know! But NASA

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### [A Far-Out Solar System That Looks Like Ours](#)

From far enough away, our solar system looks 2-D. All eight planets still orbit on nearly the same horizontal plane, which matches up with the plane of the sun's equator. It's what makes our home





## **NASA finds another solar system with 8 planets just like ours**

The eight-planet system that was discovered with the help of NASA's Kepler space telescope and artificial intelligence orbits a star called Kepler 90 some 2,545 light years away.



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