



New discoveries in the solar system

Did astronomers discover a rare in-sync Solar System?

Astronomers have discovered a rare in-sync solar system with six planets moving like a grand cosmic orchestra, untouched by outside forces since their birth billions of years ago. The find, announced Wednesday, can help explain how solar systems across the Milky Way galaxy came to be.

Is there a new solar system in the Milky Way?

A new solar system has been found in the Milky Way. All 6 planets are perfectly in-sync, astronomers say. November 30, 2023 /3:17 PM EST /CBS/AP Astronomers have discovered a rare in-sync solar system with six planets moving like a grand cosmic orchestra, untouched by outside forces since their birth billions of years ago.

How did scientists find the two new planets?

But the scientists also used data from ground-based telescopes to confirm the existence of the two new planets. These telescopes measured the "wobble" of the star, caused by the gravitational tugs from orbiting planets, which yields the planets' mass.

Could a rare in-sync Solar System help explain the Milky Way galaxy?

NASA via AP CAPE CANAVERAL, Fla. -- Astronomers have discovered a rare in-sync solar system with six planets moving like a grand cosmic orchestra, untouched by outside forces since their birth billions of years ago. The find, announced Wednesday, can help explain how solar systems across the Milky Way galaxy came to be.

How many new worlds have been discovered?

Discovery Alert: With Six New Worlds, 5,500 Discovery Milestone Passed! NASA's Exoplanet Archive confirmed four new worlds, bringing the total past 5,500.

Which rocky planets can astronomers see from a red dwarf star?

The discovery: NASA's TESS mission has found two rocky worlds orbiting the relatively bright, red dwarf star HD 260655, only 33 light-years away. The new planets, HD 260655 b and HD 260655 c, are among the closest-known rocky planets yet found outside our solar system that astronomers can observe crossing the faces of their stars.

NASA's Coronal Diagnostic Experiment (CODEX) is ready to launch to the International Space Station to reveal new details about the solar wind including its origin and its evolution. Launching in November 2024 aboard SpaceX's 31st ...

"Webb is bringing us closer and closer to a new understanding of Earth-like worlds outside our solar system, and the mission is only just getting started." Researchers used NASA's James Webb Space Telescope's

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Near-Infrared Spectrograph (NIRSpec) to observe exoplanet LHS 475 b on August 31, 2022.

New Discoveries. Join us as we explore the science and new discoveries uncovered by the many NASA missions exploring our solar system. There are several active missions and several more missions launching in the near future which promise to ...

A trio of surprise discoveries from NASA's Voyager 1 spacecraft reveals intriguing new information about our solar system's final frontier. The findings appear in the Sept. 23 issue of Science. The surprises come as the hardy, long-lived spacecraft approaches the edge of our solar system, called the heliopause, where the sun's influence ends and the [...]

Webb's first observations were selected by a group of representatives from NASA, ESA, CSA, and the Space Telescope Science Institute. They reveal the capabilities of all four of Webb's state-of-the-art scientific instruments:. SMACS 0723: Webb has delivered the deepest and sharpest infrared image of the distant universe so far - and in only 12.5 hours.

A system of seven sweltering planets has been revealed by continued study of data from NASA's retired Kepler space telescope: Each one is bathed in more radiant heat from their host star per area than any planet in our solar system. Also unlike any of our immediate neighbors, all seven planets in this system, named Kepler-385, are larger than Earth but ...

Astronomers have discovered a new planet, Barnard b, orbiting Barnard's star, just six light-years away. ... These discoveries indicate that our solar system may be surrounded by a rich ...

The discovery sets a new record for greatest number of habitable-zone planets found around a single star outside our solar system. All of these seven planets could have liquid water - key to life as we know it - under the right atmospheric conditions, but the chances are highest with the three in the habitable zone.

The solar system has one star, eight planets, five dwarf planets, at least 290 moons, more than 1.3 million asteroids, and about 3,900 comets. ... evolution, and nature of the universe have fascinated and confounded humankind for centuries. New ideas and major discoveries made during the 20th century transformed cosmology - the term for the ...

The discovery: A "super-Earth" ripe for further investigation orbits a small, reddish star that is, by astronomical standards, fairly close to us - only 137 light-years away. The same system also might harbor a second, Earth-sized planet. Key facts: The bigger planet, dubbed TOI-715 b, is about one and a half times as wide as Earth, and orbits within the "conservative" ...

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faces of their stars.

True-scale Solar System poster made by Emanuel Bowen in 1747. At that time, Uranus, Neptune, nor the asteroid belts had been discovered yet. Discovery and exploration of the Solar System is observation, visitation, and increase in knowledge and understanding of Earth's "cosmic neighborhood". [1] This includes the Sun, Earth and the Moon, the major planets Mercury, ...

4 days ago#0183; Nov. 6, 2024 -- Tiny grains from asteroid Ryugu are revealing clues to the magnetic forces that shaped the far reaches of the solar system over 4.6 billion years ago. The findings suggest the ...

On Aug. 24, 2023, more than three decades after the first confirmation of planets beyond our own solar system, scientists announced the discovery of six new exoplanets, stretching that number to 5,502.

Using the newly discovered telescope, Galileo discovered that Jupiter had four moons. At first, he thought they were stars, but he noticed that, each night, the four points of light appeared to change positions slightly. Galileo's discovery of four of Jupiter's moons was evidence that objects can orbit around other objects.

Scientists have discovered a new ring system around a dwarf planet on the edge of the Solar System. The ring system orbits much further out than is typical for other ring systems, calling into ...

The space station's life support system was developed to provide the crew with clean air and water. The Water Recovery System purifies and filters the station's water, recovering and recycling 93% of the water astronauts use in space. This technology has been licensed to adapt it into an Earth-based water treatment system.

Overview Most of the exoplanets discovered so far are in a relatively small region of our galaxy, the Milky Way. ("Small" meaning within thousands of light-years of our solar system; one light-year equals 5.88 trillion miles, or 9.46 trillion kilometers.) Even the closest known exoplanet to Earth, Proxima Centauri b, is still about 4 light-years [...]

For the first time in history, a spacecraft has touched the Sun. NASA's Parker Solar Probe has now flown through the Sun's upper atmosphere - the corona - and sampled ...

New missions and new milestones are on the calendar for 2021. Here are some of the things to watch for in planetary science, as we continue to explore and learn about our incredible solar system. ... (Assembly, Test, and Launch Operations). Psyche, the 16th asteroid discovered, may consist largely of metal from the core of an early planet, one ...

New Horizons--the famous NASA spacecraft that flew by Pluto in 2015--is now making new discoveries beyond the Kuiper Belt. ... how much more there is to learn about our Solar System beyond the ...

Early science results from NASA's Juno mission to Jupiter portray the largest planet in our solar system as a

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complex, gigantic, turbulent world, with Earth-sized polar cyclones, plunging storm systems that travel deep into the heart of the gas giant, and a mammoth, lumpy magnetic field that may indicate it was generated closer to the planet's surface than previously ...

1 day ago; Tiny grains from asteroid Ryugu are revealing clues to the magnetic forces that shaped the far reaches of the solar system over 4.6 billion years ago. The findings suggest the distal solar system harbored a weak magnetic field, ...

The exploration of our solar system is being radically changed since the beginning of operations of the James Webb Space Telescope (JWST) in mid 2022. ... also enabling new discoveries on small ...

This series of images taken in 2018, 2019, and 2020 by the Hubble Space Telescope shows slight changes in the atmosphere on Saturn's northern hemisphere as the season changes from summer to fall after seven long Earth years of summer. Over three years, the equator got 5 to 10 percent brighter, and the winds changed slightly. In 2018, winds ...

NASA's New Horizons has discovered unexpectedly high dust levels in the Kuiper Belt, hinting at a larger expanse or a new belt, reshaping our understanding of the solar system's outer edge. New observations from NASA's New Horizons spacecraft hint that the Kuiper Belt - the vast, distant outer zone of our solar system populated by ...

The outer Solar System has been a treasure trove of discoveries in recent decades. Using ground-based telescopes, astronomers have identified eight large bodies since 2002 - Quouar, Sedna, Orcus ...

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