



Explore one solar system

Voyager 1 has been exploring our solar system since 1977. The probe is now in interstellar space, the region outside the heliopause, or the bubble of energetic particles and magnetic fields from the Sun. Voyager 1 was launched after Voyager 2, but because of a faster route it exited the asteroid belt earlier than its twin, and it overtook Voyager 2 on Dec. 15, 1977.

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About the Solar System. The solar system is a vast and fascinating place, consisting of the Sun, eight planets, numerous moons, asteroids, and comets. It formed approximately 4.6 billion years ago from a giant molecular cloud. The Sun, located at the center, is a massive ball of hot plasma that provides light and heat to the entire solar system.

While astronomers have discovered thousands of other worlds orbiting distant stars, our best knowledge about planets, moons, and life comes from one place. The Solar System provides the only known example of a habitable planet, the only star we can observe close-up, and the only worlds we can visit with space probes. Solar System research is essential for understanding ...

This 3D simulation of our solar system is powered by real spacecraft data. NASA/JPL-Caltech/VTAD. "The thing I love the most about our solar system is that it's an incredible natural laboratory," said Dr. Lori Glaze, director of ...

The solar system consists of an average star we call the Sun, its "bubble" the heliosphere, which is made of the particles and magnetic field emanating from the Sun - the interplanetary medium - and objects that orbit the Sun: from as close as the planet Mercury all the way out to comets almost a light-year away. A light year is the distance light travels in a year, moving at about ...

The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] It formed about 4.6 billion years ago when a dense region of a molecular cloud collapsed, forming the Sun and a protoplanetary disc. The ...

Eyes on the Solar System. This simulated live view of the solar system allows you to explore the planets, their moons, asteroids, comets and the spacecraft interacting with them in 3D. You can also fast-forward or rewind time, and explore the solar system as it looked from 1950 to 2050, complete with past and future NASA missions.

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Space Volcano Explorer. explore; Space Volcanoes! Explore the many volcanoes in our solar system using the Space Volcano Explorer. ...

Our solar system consists of our star, the Sun, and everything bound to it by gravity - the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune; dwarf planets such as ...

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The solar system consists of a central star, the sun, and all of the smaller celestial bodies that continuously travel around it, including our very own Earth. ... Our solar system is located within one of the spiral arms of the Milky Way galaxy. ... Explore more. Related theme. Arts & Culture Expeditions. Where do you want to go today? View ...

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NASA's Advanced Composition Explorer (ACE) collects and analyzes particles of solar, interplanetary, interstellar and galactic origins. ... Voyager 2 set a course to exit our solar system, reaching interstellar space on Dec. 10, 2018, as a speedy, silent messenger from Earth. Read More. Ionosphere, Thermosphere ... one ahead of Earth in its ...

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Anyone with an internet-enabled device browser can explore the past, present, and future of the solar system in 3D with NASA's interactive Eyes on the Solar System. Click anywhere on the image to get a closer look at a 3D rendering of NASA's Cassini spacecraft flying by Saturn's moon Enceladus in 2015.

Introduction. The planetary system we call home is located in an outer spiral arm of the Milky Way galaxy. Our solar system consists of our star, the Sun, and everything bound to it by gravity - the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune; dwarf planets such as Pluto; dozens of moons; and millions of asteroids, comets, and meteoroids.

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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 [...]

Countless musicians have written songs about the Sun. The Beatles had a hit in 1969 with "Here Comes the Sun." Other popular songs that reference the Sun include: "Walkin' on the Sun" by Smashmouth; "Ain't No Sunshine" by Bill Withers; "Walking on Sunshine" by Katrina and the Waves; "Pocketful of Sunshine" by Natasha Bedingfield; and "Let the Sunshine In" by the ...

Astronomers have followed the downsizing of Jupiter's trademark Great Red Spot since the 1930s. Credit: NASA, ESA, and A. Simon (GSFC) News Release: 2014-24 Hubble has tracked immense dark storms on Neptune that appear and vanish over time. Credit: NASA, ESA, and M.H. Wong and A.I. Hsu (UC Berkeley) News Release: 2018-08 A giant polar cap, which ...

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The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] It formed about 4.6 billion years ago when a dense region of a molecular cloud collapsed, forming the Sun and a protoplanetary disc. The Sun is a typical star that maintains a balanced equilibrium by the fusion of hydrogen into helium at its core, releasing this energy from its ...

The solar system is located in one of the smaller arms, called the Orion-Cygnus Arm, or simply the Orion Arm. ... Explore beautiful maps of many planets and moons, from the U.S. Geological Survey.

You probably know that a year is 365 days here on Earth. But did you know that on Mercury you'd have a birthday every 88 days? Read this article to find out how long it takes all ...

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