

NASA's real-time science encyclopedia of deep space exploration. Our scientists and far-ranging robots explore the wild frontiers of our solar system. NASA. Solar System Exploration Our Galactic Neighborhood. ... The rings, for example, are a natural laboratory for processes that form planets -- a mini solar system, if you will. They show us ...

A planet is a celestial body that (a) is in orbit around the Sun, (b) has sufficient mass for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly ...

Eris, Ceres, Pluto, and two more recently discovered KBOs named Haumea and Makemake, are the dwarf planets recognized by the IAU. There may be another 100 dwarf planets in the solar system and hundreds more in and just outside the Kuiper Belt. Here is the text of the IAU's Resolution B5: Definition of a Planet in the Solar System:

Humans have studied our solar system for thousands of years, but it was only in the last few centuries that scientists started to really figure out how things work. The era of robotic exploration--sending uncrewed spacecraft beyond Earth as our eyes and ears and senses--only started in the 1950s. A scientific fleet of robots is [...]

Of the eight planets, Mercury and Venus are the only ones with no moons. The giant planets Jupiter and Saturn lead our solar system's moon counts. In some ways, the swarms of moons around these worlds resemble mini versions of our solar system.

NASA Leadership Views. Download: NASA Planetary Science Division Response to the Planetary Decadal Survey (PDF, 875 KB) - Official NASA response (7/29/2011) 10/13/2011: Planetary Science Division Overview given by Jim Green (PDF, 2.05 MB) 05/10/2011: Dr. Jim Adams Presentation to Planetary Protection Committee (PDF, 1.61 MB)

"The Senior Review has validated that these two planetary science missions are likely to continue to bring new discoveries, and produce new questions about our solar system," said Lori Glaze, director of the planetary science division at NASA Headquarters, Washington.

In its first 50 years of planetary exploration, NASA sent spacecraft to fly by, orbit, land on, or rove on every planet in our solar system, as well as Earth's Moon and several moons of other planets. ... Introduction: NASA's Solar System Exploration Paradigm: The First 50 Years and a Look at the Next 50. By James L. Green and Kristen J ...

NASA has revamped its "Eyes on the Solar System" 3D visualization tool, making interplanetary travel easier and more interactive than ever. More than two years in the making, the update delivers better controls, improved navigation, and a host of new opportunities to learn about our incredible corner of the cosmos - no



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5 days ago· NASA's Exoplanet Exploration Program, the search for planets and life beyond our solar system. Opens in a new window Opens an external site Opens an external site in a new window Toggle navigation Close audio options Play video Close modal Previous Next Toggle audio voice over Toggle ambient music.

Outer Planets Assessment Group (OPAG) recommends that the DS support 1) the JEO and ESJM flagship, 2) Cassini Solstice Mission, and 3) Technology to permit next Outer Planets flagship to Titan/Enceladus, and assess the feasibility of 4) "small flagship" mission class and 5) a set of NF candidates.

Jupiter is the fifth planet from the Sun, and the largest in the solar system - more than twice as massive as the other planets combined. NASA. Solar System Exploration Our Galactic Neighborhood. Skip Navigation. menu ... This site is maintained by the Planetary Science Communications team at NASA's Jet Propulsion Laboratory for NASA's ...

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In its second extended mission, New Horizons will continue to explore the distant solar system out to 63 astronomical units (AU) from Earth. The New Horizons spacecraft can potentially conduct multi-disciplinary observations of relevance to the solar system and NASA's Heliophysics and Astrophysics Divisions.

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While Earth is only the fifth largest planet in the solar system, it is the only world in our solar system with liquid water on the surface. Just slightly larger than nearby Venus, Earth is the biggest of the four planets closest to the Sun, all of which are made of rock and metal. Namesake. Namesake. The name Earth is at least 1,000 years old.

It's the only planet we know of inhabited entirely by robots. NASA. Solar System Exploration Our Galactic



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6 days ago; The biggest planet in our solar system . explore; What Is the Weather Like on Other Planets? Each of the planets in our solar system experiences its own unique weather. explore; Is There Ice on Other Planets? Yes, there is ice beyond Earth! In fact, ice can be found on several planets and moons in our solar system.

When the solar system settled into its current layout about 4.5 billion years ago, Mars formed when gravity pulled swirling gas and dust in to become the fourth planet from the Sun. Mars is about half the size of Earth, and like its fellow terrestrial planets, it has a central core, a rocky mantle, and a solid crust.

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 ...

There are five officially recognized dwarf planets in our solar system: Ceres, Pluto, Haumea, Makemake, and Eris. The solar system has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. There are five officially recognized dwarf planets in our solar system: Ceres, Pluto, Haumea, Makemake, and Eris. What is a Planet?

Since then, many NASA space missions have explored the other planets and some of their many moons, as well as asteroids and comets. These missions have brought us dramatic and diverse discoveries, including volcanoes, canyons, geysers, colossal storms, and evidence of liquid oceans on other worlds.

Our Mission.And the one planet that NASA studies more than any other. NASA. Solar System Exploration Our Galactic Neighborhood. Skip Navigation. menu close modal Earth By the Numbers ... This site is maintained by the Planetary Science Communications team at NASA's Jet Propulsion Laboratory for NASA's Science Mission Directorate. Writer ...

NASA's Juno spacecraft came within 645 miles (1,038 kilometers) of the surface of Jupiter's largest moon, Ganymede. It was the closest a spacecraft had passed by the solar system's largest natural satellite since the Galileo mission in 2000.

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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,



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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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Solar System Exploration Program. The Solar System Exploration Program consists of large, strategic missions that seek to advance high priority science objectives set forth by the planetary science community. Because of their complexity, NASA typically assigns these efforts directly to a NASA center or other implementing organization.

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