

Saturn: Exploration. Four robotic spacecraft have visited Saturn. NASA's Pioneer 11 provided the first close look in September 1979. NASA's twin Voyager 1 and Voyager 2 spacecraft followed up with flybys nine months apart in 1980 and 1981.

A 3D model of Saturn, the ringed gas giant planet. National Aeronautics and Space Administration. NASA explores the unknown in air and space, innovates for the benefit of humanity, and inspires the world through discovery.

How many moons does Saturn have? In the present, Saturn has 82 confirmed moons orbiting the planet. This is just three more than the current moons orbiting Jupiter, meaning Saturn has the most moons of any planet in the solar system. And actually, over the decades the planet with the most moons that are orbiting it has changed.

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Visible in the image are Saturn's A, B, C and F rings. The planet has seven rings ... per NASA's blog post. Saturn has the most known moons in the solar system by far--the discovery of 62 ...

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After two decades in space, NASA's Cassini spacecraft ended its remarkable journey of exploration. Having expended almost every bit of the rocket propellant it carried to Saturn, operators deliberately plunged Cassini into the ...

Saturn was 810 million miles (1.3 billion kilometers) away when the Hubble Space Telescope took this ultraviolet image of the planet, revealing a vivid auroral display rising thousands of miles above the cloud tops over both of the planet's poles. These spectacular light shows are caused by an energetic solar wind that sweeps over the planet.

Saturn has a lovely set of seven main rings with spaces between them. [Time on Saturn](#). One day on Saturn goes by in just 10.7 hours. One year on Saturn is the same as 29 Earth years. [Saturn's Neighbors](#). As of June 8, 2023, Saturn has 146 moons. Saturn is the sixth planet from the Sun. That means Jupiter and Uranus are Saturn's neighboring planets.

Saturn planet nasa

This was Cassini's view from orbit around Saturn on Jan. 2, 2010. In this image, the rings on the night side of the planet have been brightened significantly to more clearly reveal their features. On the day side, the rings are illuminated both by direct ...

Saturn is the sixth planet from the sun and the second-largest planet in the solar system. ... Saturn's aurora was first spotted by NASA's Pioneer 11 spacecraft when it observed a far-ultraviolet ...

Saturn is almost twice as far from the Sun as Jupiter at nearly 900 million miles. It is second in size in our solar system, surpassed only by Jupiter, but Saturn's mass is much smaller. Saturn's specific gravity is less than water's, meaning it would float on a body of water!

Saturn is truly the lord of the rings in this latest snapshot from NASA's Hubble Space Telescope, taken on July 4, 2020, when the opulent giant world was 839 million miles from Earth. This new Saturn image was taken during summer in the planet's northern hemisphere. Hubble found a number of small atmospheric storms.

Before Cassini, we had only brief glimpses of the discoveries awaiting us at Saturn. Pioneer 11 and Voyagers 1 and 2 conducted flybys decades earlier, taking pictures, measurements and observations as they zoomed past. These missions shed new light on Saturn's complicated ring system, discovered new moons and made the first measurements of Saturn's magnetosphere. ...

Saturn has 146 moons in its orbit, more than any other planet. The moons range in size from larger than the planet Mercury - the giant moon Titan - to as small as a sports arena. The small moon Enceladus has a global ocean under a thick, ...

Our 2021 round-up of NASA planetary science is packed with the year's most spectacular images, ground-breaking discoveries, and incredible mission events. NASA Planetary Science Highlights: 2021 The camera aboard NASA's Lunar Reconnaissance Orbiter (LRO) spacecraft imaged Saturn on Oct. 13, 2021.

Saturn has 146 moons in its orbit, more than any other planet. The moons range in size from larger than the planet Mercury - the giant moon Titan - to as small as a sports arena. The small moon Enceladus has a global ocean under a thick, icy shell. Scientists have identified both moons as high-priority science destinations for future deep space missions.

Saturn is the sixth planet from the Sun and the second-largest planet in our solar system. Like fellow gas giant Jupiter, Saturn is a massive ball made mostly of hydrogen and helium. Saturn ...

Saturn Rings: Overview Scientists had never before studied the size, temperature, composition and distribution of Saturn's rings from Saturn orbit. Cassini captured extraordinary ring-moon interactions, observed the lowest ring-temperature ever recorded at Saturn, discovered that the moon Enceladus is the

source for Saturn's E ring, and viewed the rings at equinox when ...

On June 25, 2023, NASA's James Webb Space Telescope turned to famed ringed world Saturn for its first near-infrared observations of the planet. The initial imagery from Webb's NIRCам ...

This photo of Saturn was taken by NASA's Hubble Space Telescope on October 22, 2023, when the ringed planet was approximately 850 million miles from Earth. Hubble's ultra-sharp vision reveals a phenomenon called ring spokes. Saturn's spokes are transient features that rotate along with the rings. Their ghostly appearance only persists for two ...

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July 1, 2004: NASA's Cassini spacecraft becomes the first to orbit Saturn, beginning a decade-long mission that revealed many secrets and surprises about Saturn and its system of rings and moons. Jan. 14, 2005: The European ...

Planet Six Full Resolution: TIFF (3.077 MB) JPEG (98.35 kB) 2018-05-14: Saturn: Cassini-Huygens: ISS - Wide Angle ... Saturn: Before the Plunge Full Resolution: TIFF (373.1 kB) ... which includes 6 science discipline nodes and 2 support ...

Saturn Observational Parameters Discoverer: Unknown Discovery Date: Prehistoric Distance from Earth Minimum (10 6 km) 1205.5 Maximum (10 6 km) 1658.6 Apparent diameter from Earth Maximum (seconds of arc) 19.9 Minimum (seconds of arc) 14.5 Mean values at opposition from Earth Distance from Earth (10 6 km) 1277.13 Apparent diameter (seconds of ...

Planet Six Full Resolution: TIFF (3.077 MB) JPEG (98.35 kB) 2018-05-14: Saturn: Cassini-Huygens: ISS - Wide Angle ... Saturn: Before the Plunge Full Resolution: TIFF (373.1 kB) ... which includes 6 science discipline nodes and 2 support nodes which are overseen by the Project Management Office at NASA's Goddard Space Flight Center (GSFC). ...

Saturn is the sixth planet from the Sun and the second largest in the Solar System, after Jupiter is a gas giant, with an average radius of about nine times that of Earth. [27] [28] It has an eighth the average density of Earth, but is over 95 times more massive.[29] [30] [31] Even though Saturn is almost as big as Jupiter, Saturn has less than a third the mass of Jupiter.

NASA's Cassini spacecraft has explored the Saturn system since 2004, re-writing our understanding of the giant planet, its rings, moons and magnetosphere. For 13 years the spacecraft's incredible, truly otherworldly images have revealed the wonder of Saturn in surprising, ...

The colorful globe of Saturn's largest moon, Titan, passes in front of the planet and its rings in this true color snapshot from NASA's Cassini spacecraft. Overview: Until the Cassini mission, little was known about Saturn's largest moon Titan, save that it was a Mercury-sized world whose surface was veiled beneath a thick, nitrogen-rich ...

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