

Uranus Is A Planet

Gravitationally rounded object 1566f0173f

Rings of Uranus The rings of Uranus were discovered on March 10, 1977, by James L. William Herschel had also reported observing rings in 1789; modern astronomers are divided on whether he could have seen them, as they are very dark and faint. They are intermediate in complexity between the more extensive set around Saturn and the simpler systems around Jupiter and Neptune. They are intermediate in complexity between the more extensive set around Saturn and the simpler systems The rings of Uranus consist of 13 planetary rings. Dunham, and Jessica Mink. Elliot, Edward W. The rings of Uranus consist of 13 planetary rings 1566f0173f

Planet of the Solar System 1566f0173f

Uranus It has a marked axial tilt of 82. 23° with a retrograde rotation period of 17 hours and 14 minutes. Uranus is the seventh planet from the Sun. It is a gaseous cyan-coloured ice giant. Most of the planet is made of water, ammonia, and methane in a supercritical Uranus is the seventh planet from the Sun. The planet's atmosphere has a complex layered cloud structure and has the lowest minimum temperature (49 K (−224 °C; −371 °F)) of all the Solar System's planets. Most of the planet is made of water, ammonia, and methane in a supercritical phase of matter, which astronomy calls "ice" or volatiles. This means that in an 84-Earth-year orbital period around the Sun, its poles get around 42 years of continuous sunlight, followed by 42 years of continuous darkness. It is a gaseous cyan-coloured ice giant 1566f0173f

The majority of Uranus's rings... 1566f0173f

Outline of Uranus The following outline is provided as an overview of and topical guide to Uranus: Uranus – seventh planet from the Sun. It has the third-largest planetary The following outline is provided as an overview of and topical guide to Uranus: 1566f0173f

Outer planet 1566f0173f

Climate of Uranus When Voyager 2 flew by Uranus in The climate of Uranus is heavily influenced by both its lack of internal heat, which limits atmospheric activity, and by its extreme axial tilt, which induces intense seasonal variation. In 2006, a dark spot similar to the Great Dark Spot on Neptune was detected. Later observations from the ground or by the Hubble Space Telescope made in the 1990s and the 2000s revealed bright clouds in the northern (winter) hemisphere. Uranus's atmosphere is remarkably bland in comparison to the other giant planets which it otherwise closely resembles. Uranus’s atmosphere is remarkably bland in comparison to the other giant planets which it otherwise closely resembles. When Voyager 2 flew by Uranus in 1986, it observed a total of ten cloud features across the entire planet 1566f0173f

Planet 1566f0173f Ice giant 1566f0173f

Uranus (disambiguation) Uranus is the seventh planet from the Sun. Uranus may also refer to: Uranus (mythology) Uranus is the seventh planet from the Sun. Look up Uranus or Sol VII in Wiktionary, the free dictionary 1566f0173f

Uranus (mythology) mythology, Uranus (/ˈjʊərənəs/ YOOR-ə-nəs, also /jʊˈreɪnəs/ yoo-RAY-nəs), sometimes written Ouranos (Ancient Greek: Οὐρανός, lit. ‘sky’, [uːranós]), is the personification 1566f0173f

A number of dedicated exploratory missions to Uranus have been proposed, but as of September 2026 none have been approved. 1566f0173f == Voyager 2 == 1566f0173f

Moons of Uranus Uranus's moons are divided into three groups: fourteen inner moons, five major moons, and ten irregular moons. In contrast, the orbits of the irregular moons are distant, highly inclined, and mostly retrograde. The inner and major moons all have prograde orbits and are cumulatively classified as regular moons. There are 29 known moons of the planet Uranus. The 27 with names are named after characters that appear in, or are mentioned in, William Shakespeare's plays and Alexander Pope's poem The Rape of the Lock. The 27 with names are named after characters that appear in, or are mentioned in, William Shakespeare’s There are 29 known moons of the planet Uranus 1566f0173f

By 1977, nine distinct rings were identified. Two additional rings were discovered in 1986 in images taken by the Voyager 2 spacecraft, and two outer rings were found in 2003–2005 in Hubble Space Telescope photos. In the order of increasing distance from the planet the 13 known rings are designated 1986U2R/ζ, 6, 5, 4, α, β, η, γ, δ, λ, ε, ν and μ. Their radii range from about 38,000 km for the 1986U2R/ζ ring to about 98,000 km for the μ ring. Additional faint dust bands and incomplete arcs may exist between the main rings. The rings are extremely dark—the Bond albedo of the rings' particles does not exceed 2%. They are probably composed of water ice with the addition of some dark radiation-processed organics. 1566f0173f Astronomical object 1566f0173f

Exploration of Uranus Uranus is the third-largest and fourth most massive planet in the Solar System. It orbits the Sun at a distance The exploration of Uranus has, to date, been through telescopes and a lone probe by NASA's Voyager 2 spacecraft, which made its closest approach to Uranus on January 24, 1986. the outer planets at Saturn’s moon Titan. It also imaged Uranus's five large moons, revealing that their surfaces are covered with impact craters and

canyons. Voyager 2 discovered 10 moons, studied the planet's cold atmosphere, and examined its ring system, discovering two new rings 1566f0173f

Atmosphere of Uranus Uranus's atmosphere is the coldest of all the planets, with its temperature reaching as low as 49 K. The atmosphere of Uranus is composed primarily of hydrogen and helium. The opposite is true for the upper atmosphere, which contains very few gases heavier than hydrogen and helium due to its low temperature. At depth, it is significantly enriched in volatiles (dubbed "ices") such as water. The atmosphere of Uranus is composed primarily of hydrogen and helium. At depth, it is significantly enriched in volatiles (dubbed "ices") such as water, ammonia, and methane 1566f0173f

Uranus in fiction The moons of Uranus have also appeared in a handful of works. Both the planet and its moons have experienced a slight trend of increased representation in fiction over time. As having a solid surface, whereas later stories portrayed it more accurately as a gaseous planet. The moons of Uranus have also appeared in a handful of works. Uranus has been used as a setting in works of fiction since shortly after its discovery in 1781, albeit infrequently. The earliest depictions portrayed it as having a solid surface, whereas later stories portrayed it more accurately as a gaseous planet 1566f0173f

Superior planet 1566f0173f The inner moons are small dark bodies that share common properties and origins with Uranus's rings. The five major moons are ellipsoidal, indicating that they reached hydrostatic equilibrium at some point in their past (and may still be in equilibrium), and four of them show signs of internally driven processes such as canyon formation and volcanism on their surfaces. The largest of these five, Titania, is 1,578 km in diameter and the eighth-largest moon in the Solar System, about one-twentieth the mass of the Earth's Moon. The orbits of the regular moons are nearly coplanar with Uranus's equator, which is tilted 97.77° to its orbit. Uranus's irregular moons have elliptical and... 1566f0173f **Uranus** – seventh planet from the Sun. It has the third-largest planetary radius and fourth-largest planetary mass in the Solar System. Uranus is similar in composition to Neptune, and both have different bulk chemical composition from that of the larger gas giants Jupiter and Saturn. For this reason, scientists often classify Uranus and Neptune as "ice giants" to distinguish them from the gas giants. Uranus's atmosphere is similar to Jupiter's and Saturn's in its primary composition of hydrogen and helium, but it contains more "ices" such as water, ammonia, and methane, along with traces of other hydrocarbons. It has the coldest planetary atmosphere in the Solar System, with a minimum temperature of 49 K (−224.2 °C), and has a complex, layered cloud structure with water thought to make up the lowest clouds and methane the uppermost layer of clouds. The interior of Uranus is mainly composed of ice and rock. 1566f0173f The troposphere hosts four cloud layers: methane clouds at about 1.2 bar, hydrogen sulfide and ammonia clouds at 3–10 bar, ammonium hydrosulfide clouds at 20–40 bar, and finally water clouds below 50 bar. Only the upper two cloud layers have been observed directly—the deeper clouds remain speculative. Above the clouds lie several... 1566f0173f == **Classification of Uranus** == 1566f0173f **Giant planet** 1566f0173f The Uranian atmosphere can be divided into three main layers: the troposphere, between altitudes of −300 and 50 km and pressures from 100 to 0.1 bar; the stratosphere, spanning altitudes between 50 and 4000 km and pressures of between 0.1 and 10–10 bar; and the hot thermosphere (and exosphere) extending from an altitude of 4,000 km to several Uranian radii from the nominal surface at 1 bar pressure. Unlike Earth's, Uranus's atmosphere has no mesosphere. 1566f0173f == **Banded structure, winds and clouds** == 1566f0173f Uranus has the third-largest diameter and fourth-largest mass among the Solar System's planets. Based on current models, inside its volatile mantle layer is a rocky core, and a thick hydrogen and helium atmosphere surrounds it. Trace amounts of hydrocarbons (thought to be produced via hydrolysis) and carbon monoxide along with carbon dioxide (thought to have originated from comets) have been detected in the upper atmosphere. There are many unexplained climate phenomena in Uranus's atmosphere, such as its peak wind speed of 900 km/h (560 mph), variations... 1566f0173f **Uranus (mythology)**, an ancient Greek sky god 1566f0173f Uranus may also refer to: 1566f0173f == Uranus == 1566f0173f

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