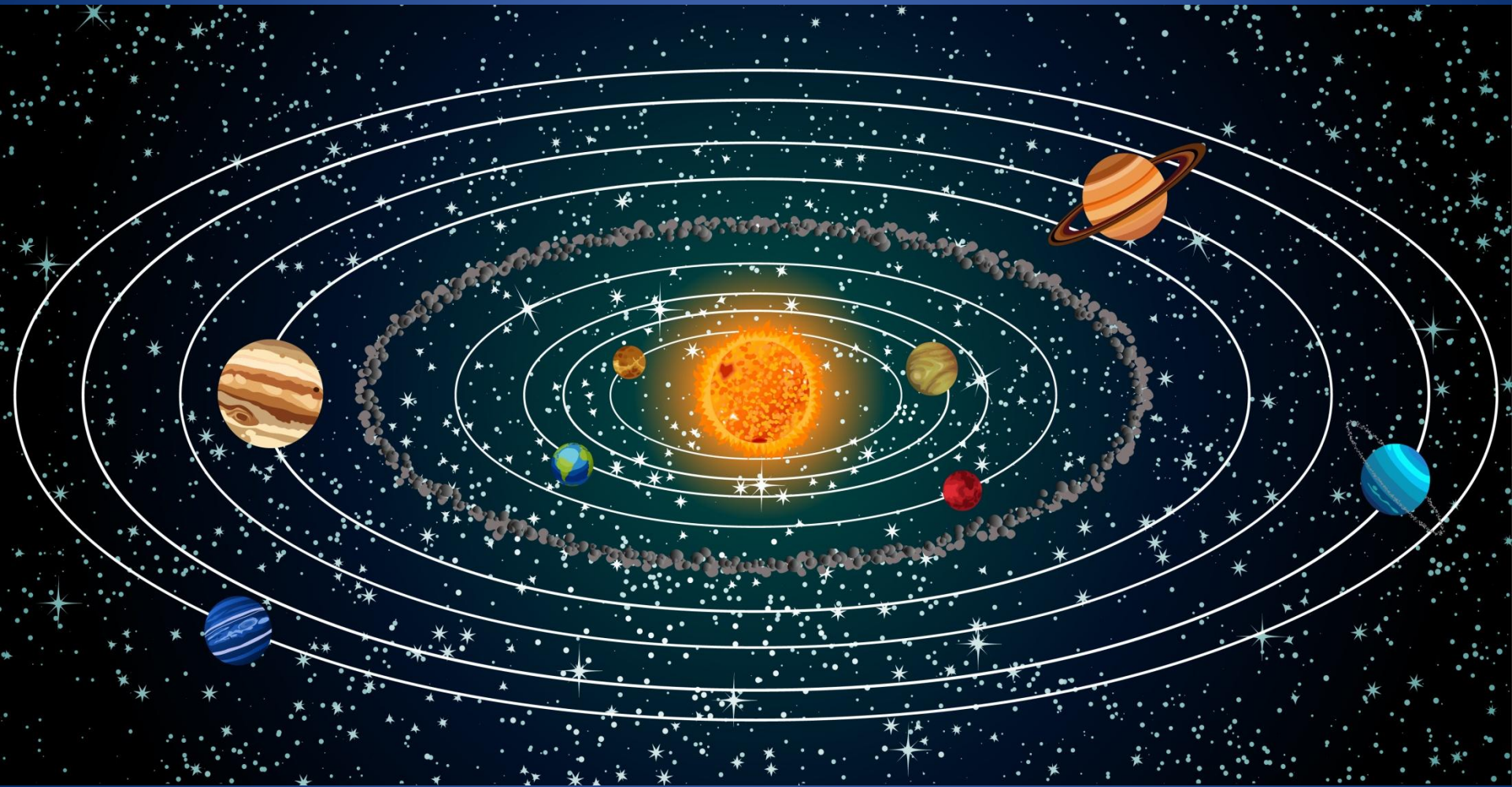
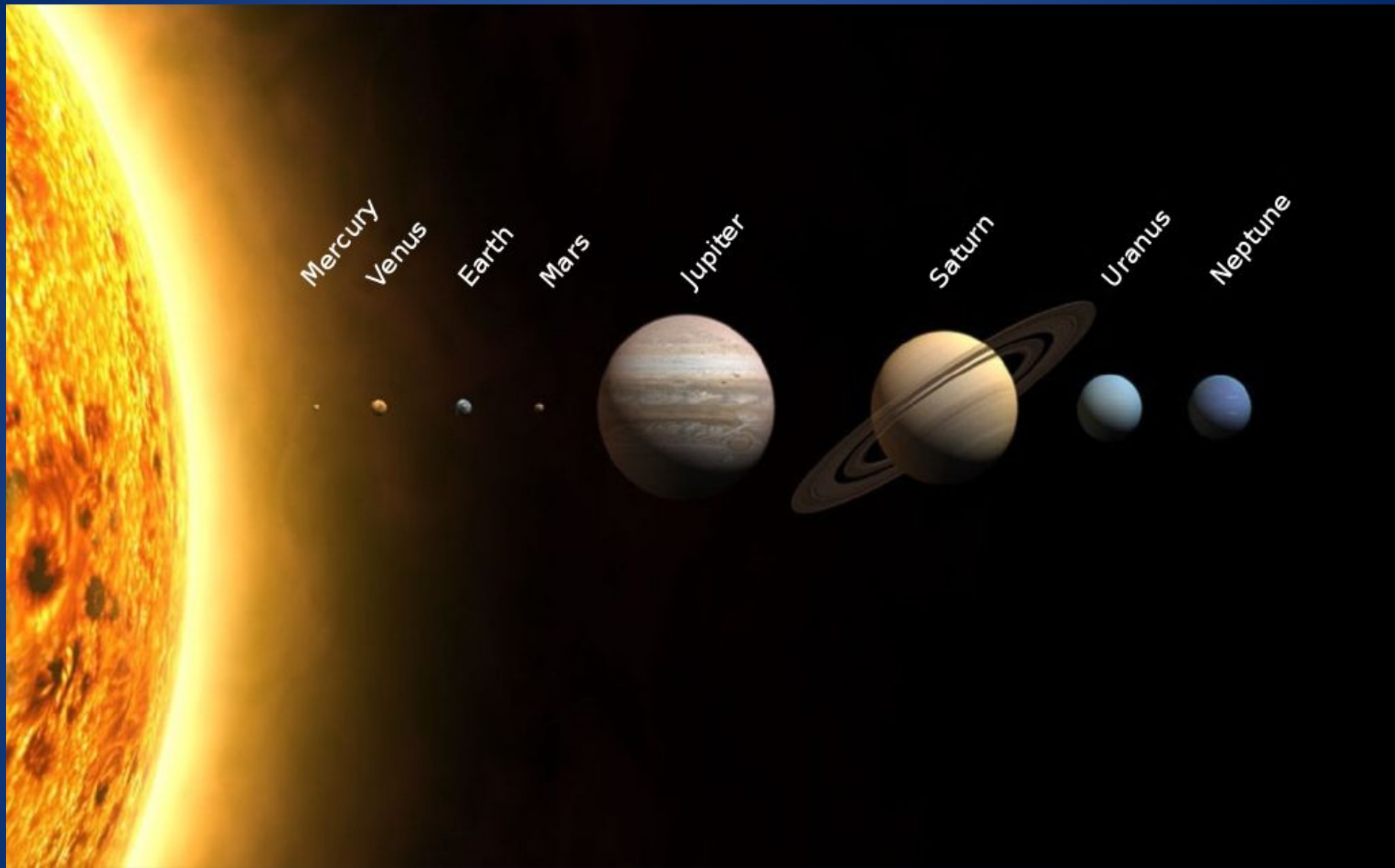
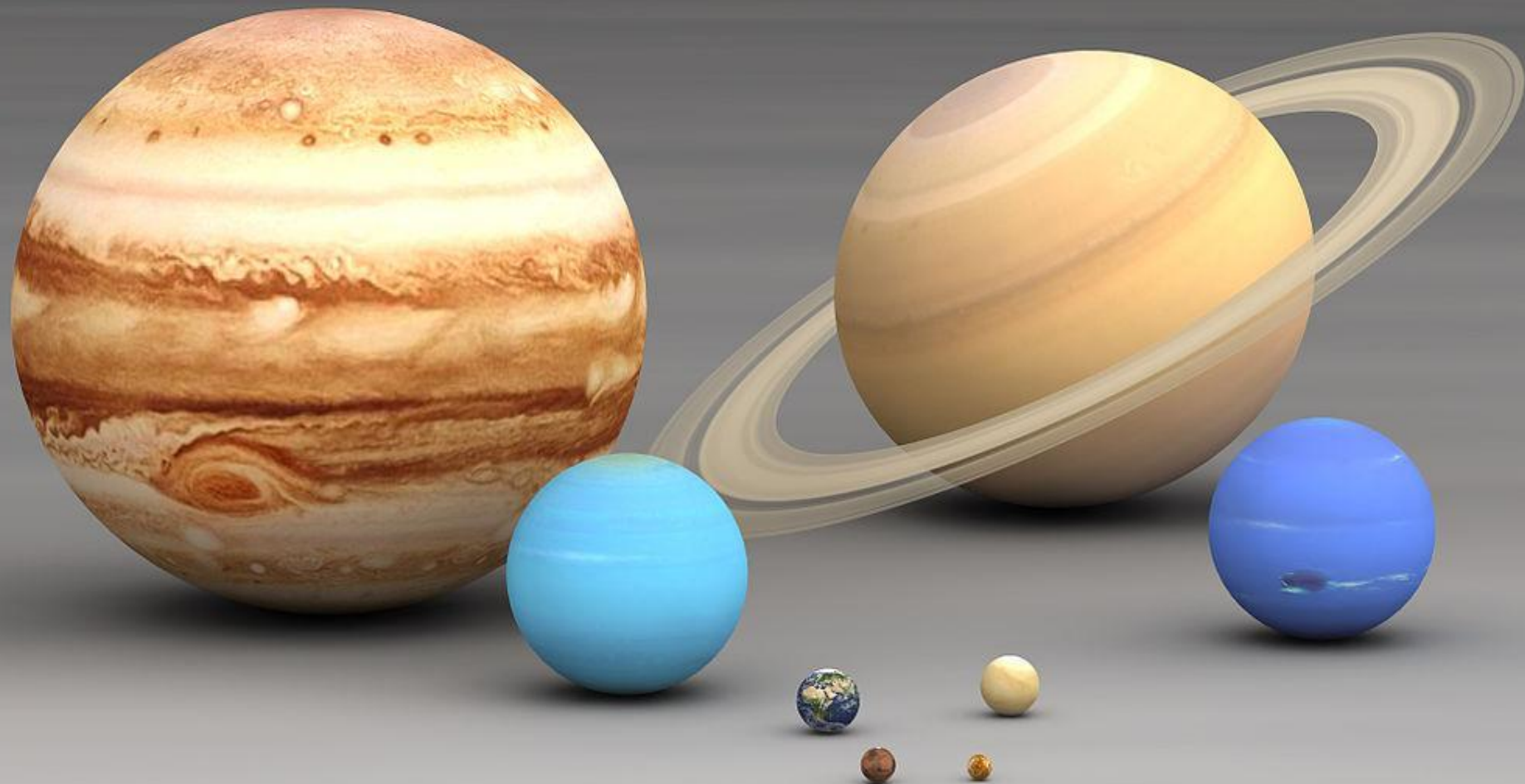


# The Solar System

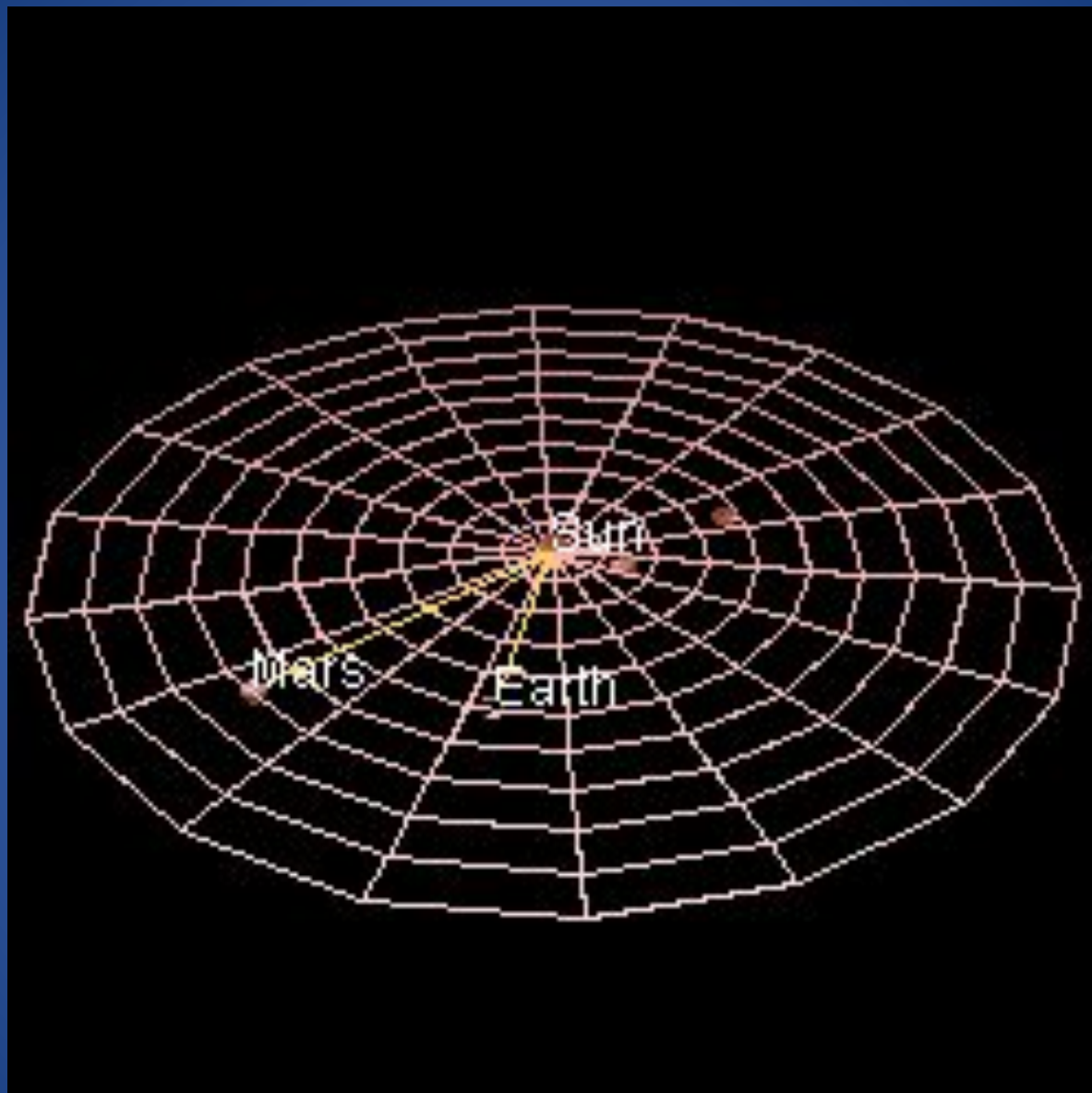














M E R C U R Y

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# Mercury

Mercury is the closest planet to the Sun and has the most cratered surface of any planet in the Solar System. Mercury's surface also appears to have shockwaves from a meteor impact. There are two moons in the Solar System bigger than Mercury - Ganymede which orbits Jupiter and Titan which orbits Saturn. In Roman mythology, Mercury was the god of commerce, travel and thievery. Its Greek name is Hermes, who was the messenger to the Gods.

**Diameter: 3,031 miles**

**Distance from Sun: 35,983,095 miles**

**Number of Known Moons: None**

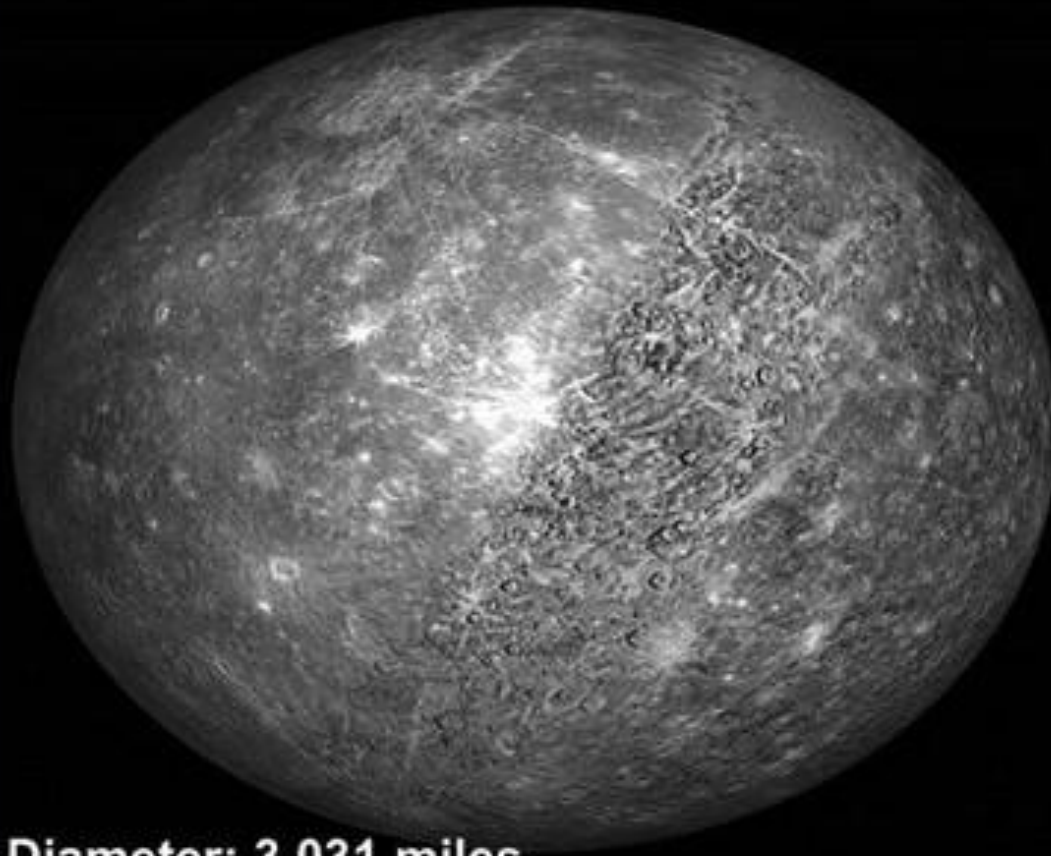
**Time To Turn on Axis: 59 days**

**Time To Orbit Sun: 88 days**

**Surface Gravity: 0.38**

**Mimimum Surface Temperature: -274 degrees Fahrenheit**

**Maximum Surface Temperature: 662 degrees Fahrenheit**





# VENUS ♀



## Planet Profile

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**Mass:** 4,867,320,000,000,000 billion kg (0.815 x Earth)

**Equatorial Diameter:** 12,104 km

**Polar Diameter:** 12,104 km

**Equatorial Circumference:** 38,025 km

**Known Satellites:** none

**Notable Satellites:** none

**Orbit Distance:** 108,209,475 km (0.73 AU)

**Orbit Period:** 224.70 Earth days

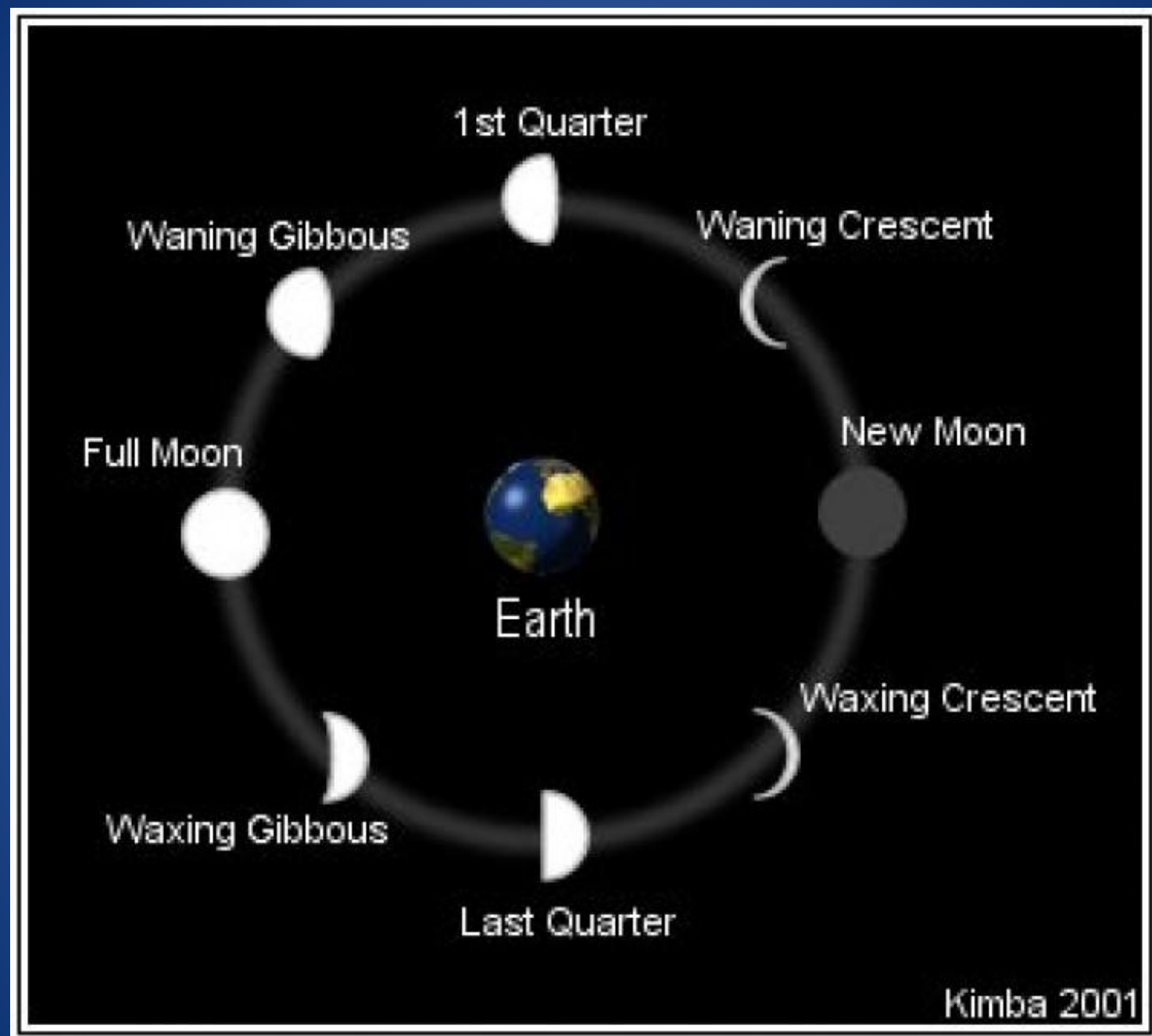
**Surface Temperature:** 462 °C

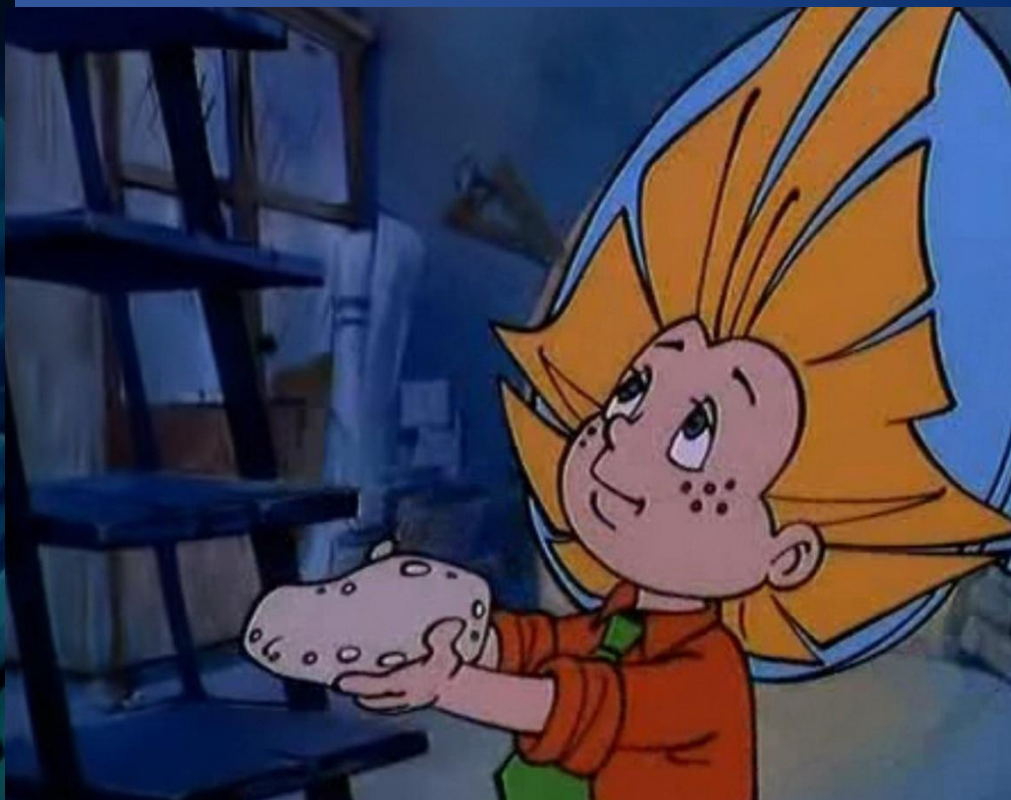
**First Record:** 17th century BC

**Recorded By:** Babylonian astronomers













# Earth

Earth is the only planet in the Universe known to support life! A living planet, with abundant water, trees, plants and breathable air, Earth is a very special place, protected from dangerous sun rays and meteorites by its atmosphere. It is the third planet from the Sun, larger than three of the planets in the Solar System and smaller than the other four. It is kept company by one moon which to this date is the only other place to be visited by people from Earth.

**Diameter: 7,926 miles**

**Distance from Sun: 92,955,820 miles**

**Number of Known Moons: 1**

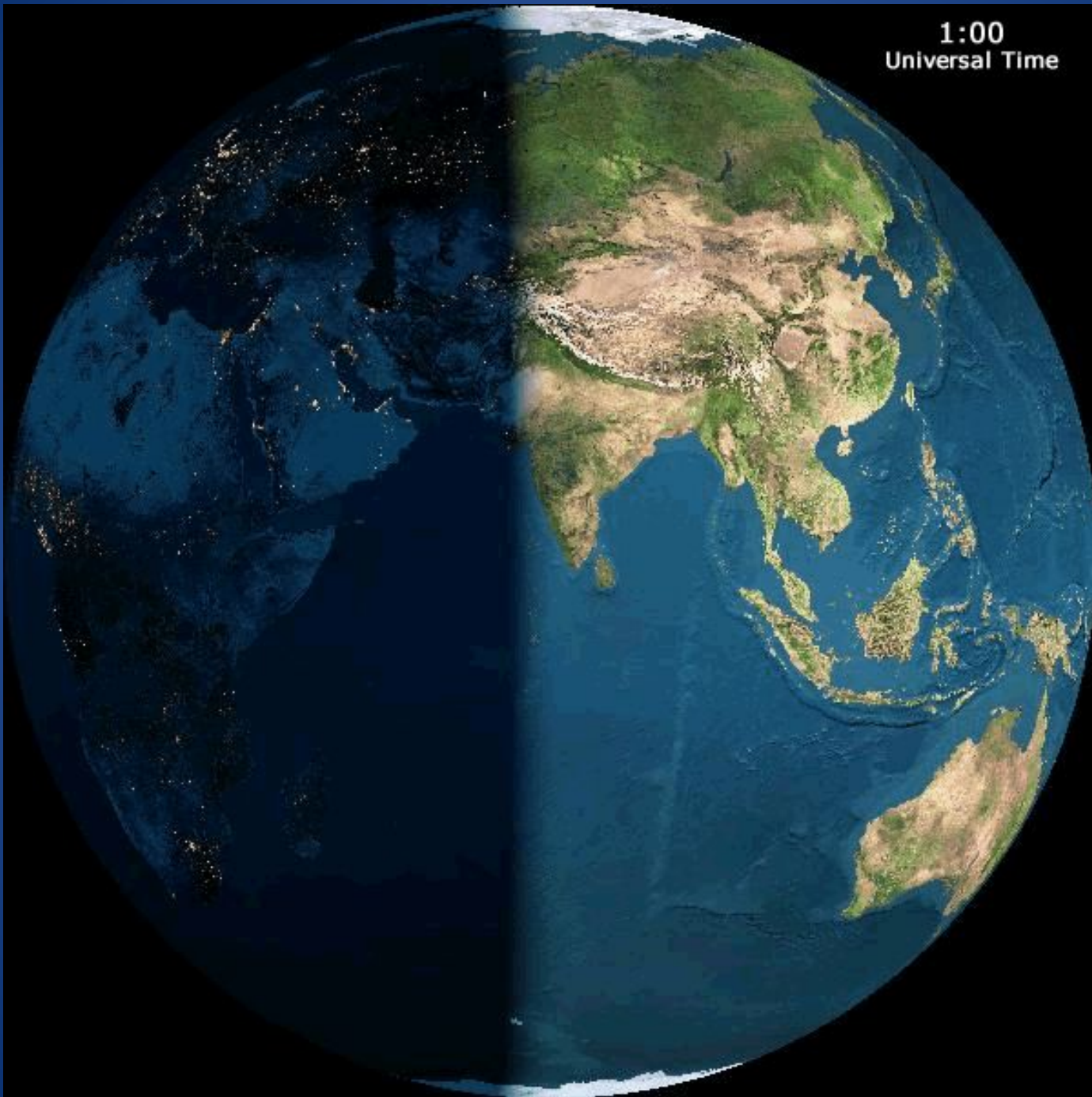
**Time To Turn on Axis: 24 hours, 56 minutes**

**Time To Orbit Sun: 365 days, 6 hours**

**Surface Gravity: 1**

**Average Surface Temperature: 59 degrees Fahrenheit**

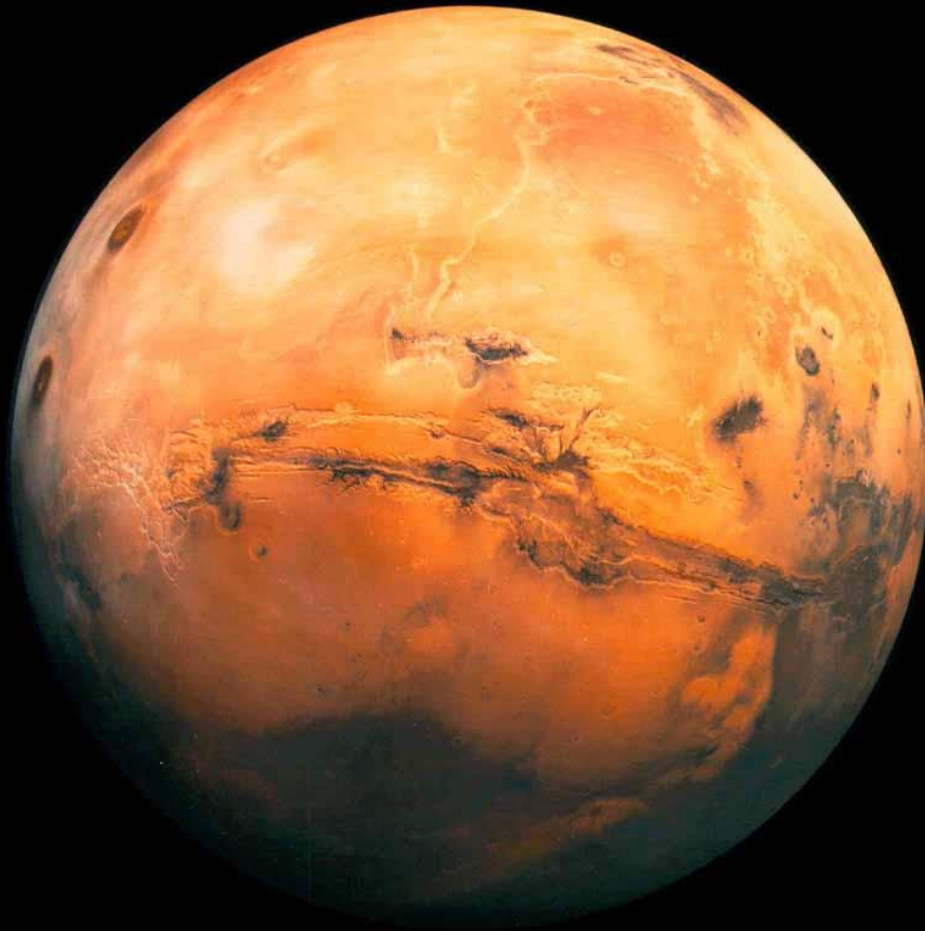
1:00  
Universal Time







*Mars Global Surveyor Project*  
**Simple Facts  
About Mars**



**Diameter:** 6,794 km (53% of Earth)

**Mars Day:** 24 hrs, 37 min

**Mars Year:** 687 Earth Days

**Mass:** 11% of Earth

**Gravity:** 38% of Earth

**Atmosphere:** 95% Carbon Dioxide,  
3% Nitrogen

**Atmospheric  
Pressure:** 1% of Earth's Sea Level

**Temperature  
at Surface:** Average Between  
-140 to 20 Celsius





# Jupiter

Jupiter is the largest planet in the Solar System and the first of the four Gas Giants. The planet is the fourth brightest object visible from Earth after the Sun, the Moon and Venus. The planet has a "red spot" which is a storm that has been observed on Jupiter since the planet was discovered. Jupiter also has a ring system like all of the large gas planets, although these rings aren't as famous or as visible as Saturn's. Orbiting Jupiter are also at least 63 moons, most of which were discovered in the 21st Century!



Great Red Spot

**Diameter: 88,846 miles**

**Distance from Sun: 483,500,000,000 miles**

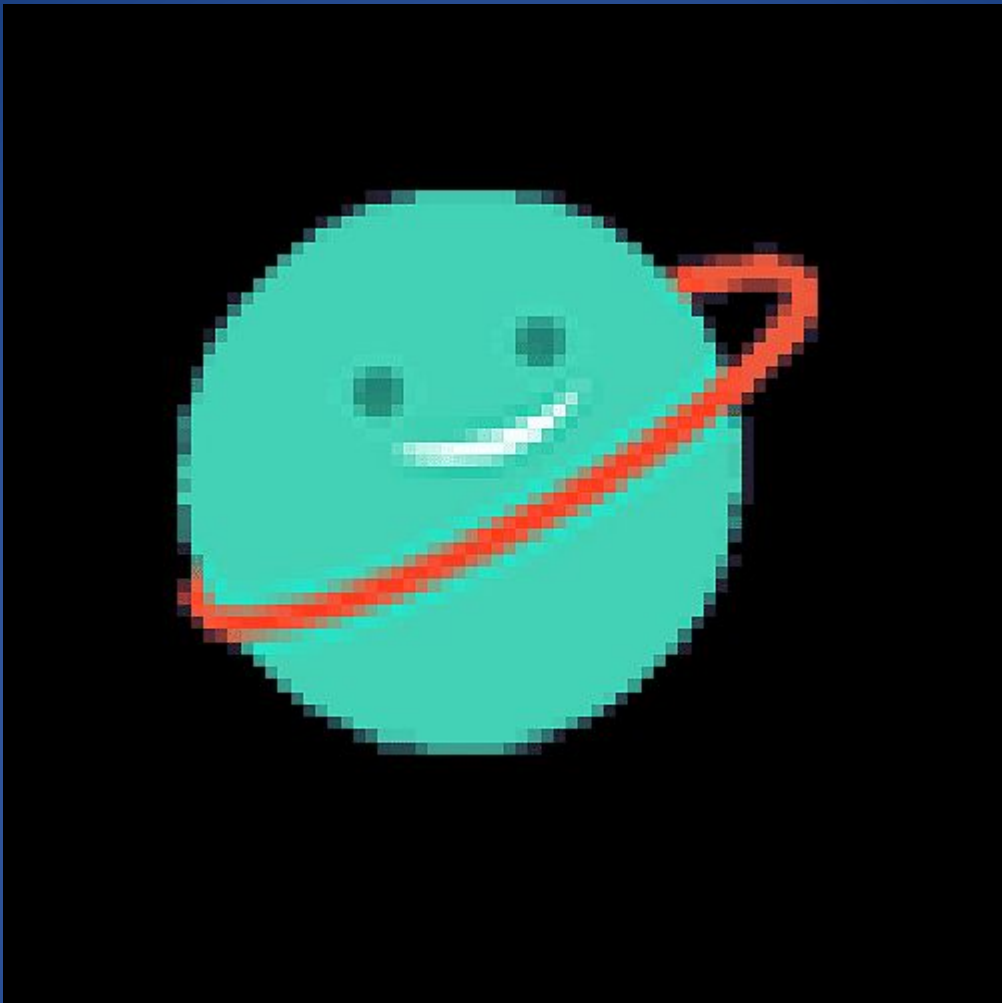
**Number of Moons: 63**

**Time To Turn on Axis: 9 hours, 55 minutes**

**Time To Orbit Sun: 11.86 years**

**Surface Gravity: 2.64**

**Temperature at Cloud Tops: -234 degrees Fahrenheit**







# Saturn

The second largest planet in the Solar System, Saturn is famous because of the amazing rings that orbit the planet. The planet is mainly made up of gas and has been visited by the Voyager probes in the early 1980s and more recently by the Cassini probe. Orbiting Saturn are at least 60 known moons including a moon called Titan which has an atmosphere that may have been like Earth's during its formation.

**Diameter:** 120,540 km

**Distance from Sun:** 1,427,000,000 km

**Number of Moons:** 60

**Time To Turn on Axis:** 10 hours, 39 minutes

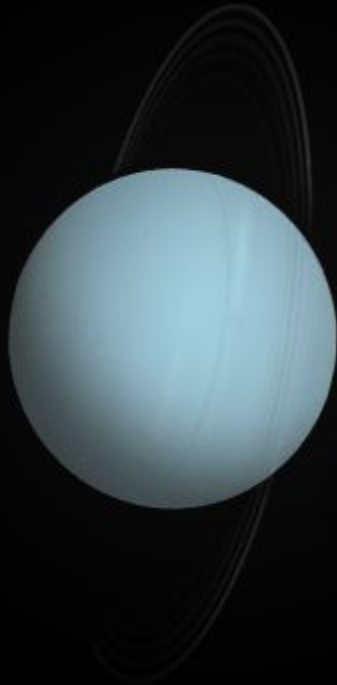
**Time To Orbit Sun:** 29.5 years

**Surface Gravity:** 1.16

**Atmosphere:** Hydrogen, Helium

**Average Surface Temperature:** -180 degrees Celcius

# URANUS ♀



## Planet Profile

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**Mass:** 86,810,300,000,000,000 billion kg (14.536 x Earth)

**Equatorial Diameter:** 51,118 km

**Polar Diameter:** 49,946 km

**Equatorial Circumference:** 159,354 km

**Known Satellites:** 27

**Notable Satellites:** Oberon, Titania, Miranda, Ariel & Umbriel

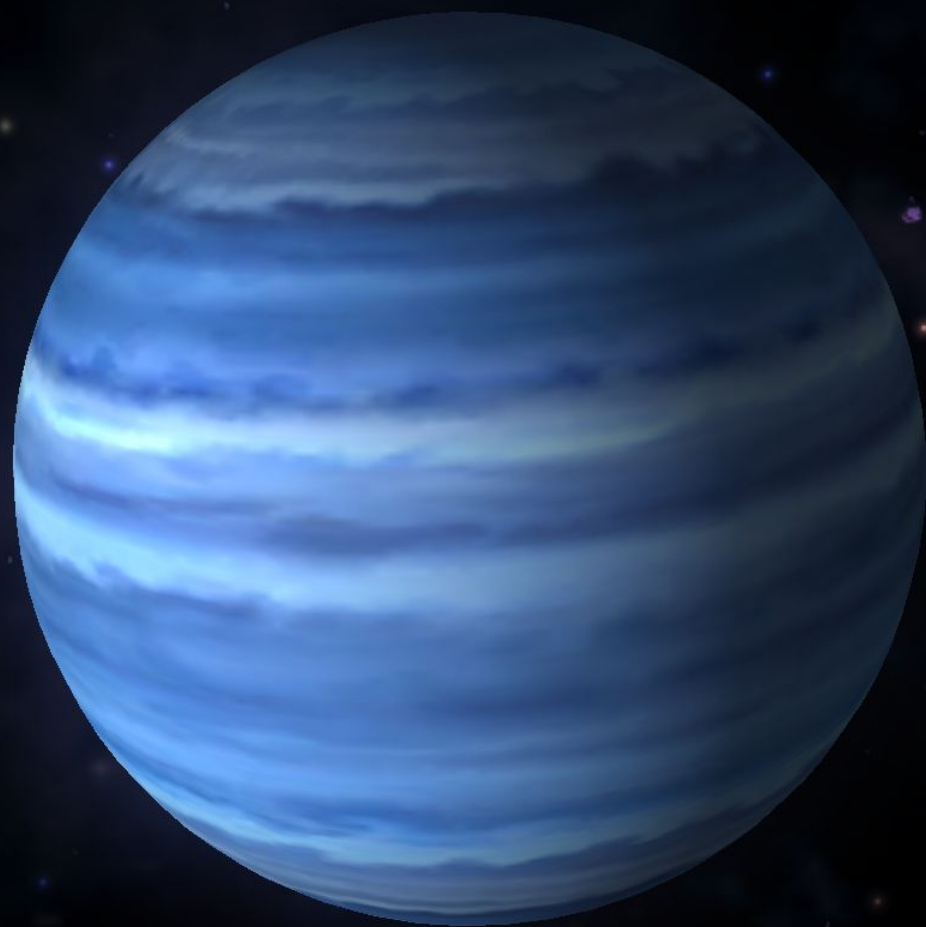
**Orbit Distance:** 2,870,658,186 km (19.22 AU)

**Orbit Period:** 30,687.15 Earth days (84.02 Earth years)

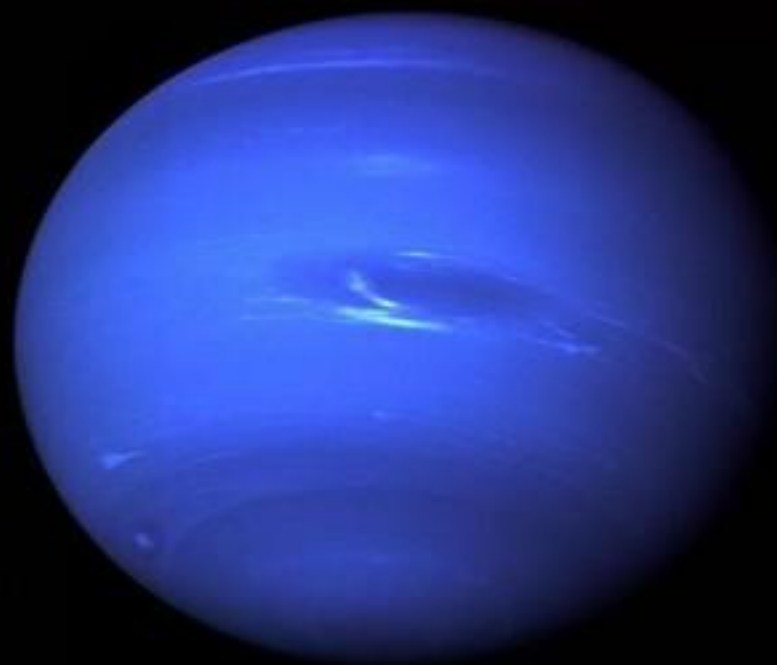
**Surface Temperature:** -197 °C

**Discover Date:** March 13th 1781

**Discovered By:** William Herschel







# Neptune

Neptune is the eighth planet in the Solar System, the second planet to be "discovered", the first planet to be discovered without actually being seen and the last of the four "Gas Giants"! Named after the Roman god of the sea, probably because of its deep blue colour, Neptune is also the windiest planet in the Solar System. Its orbit sometimes goes beyond that of Pluto, meaning that for a certain length of time, it is actually the most distant known planet in the Solar System. Orbiting Neptune are at least thirteen moons and a ring system.

**Diameter:** 49,530 km

**Distance from Sun:** 4,496,600,000 km

**Number of Moons:** 13

**Time To Turn on Axis:** 16 hours, 7 minutes

**Time To Orbit Sun:** 165 years

**Surface Gravity:** 1.21

**Atmosphere:** Hydrogen, Helium, Methane

**Average Surface Temperature:** -220 degrees Celcius