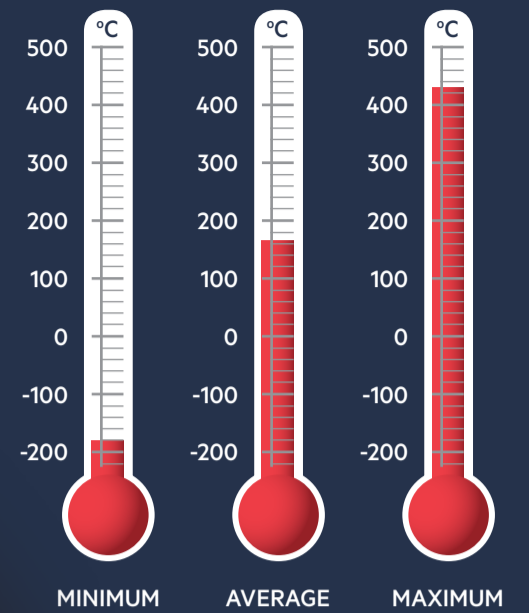
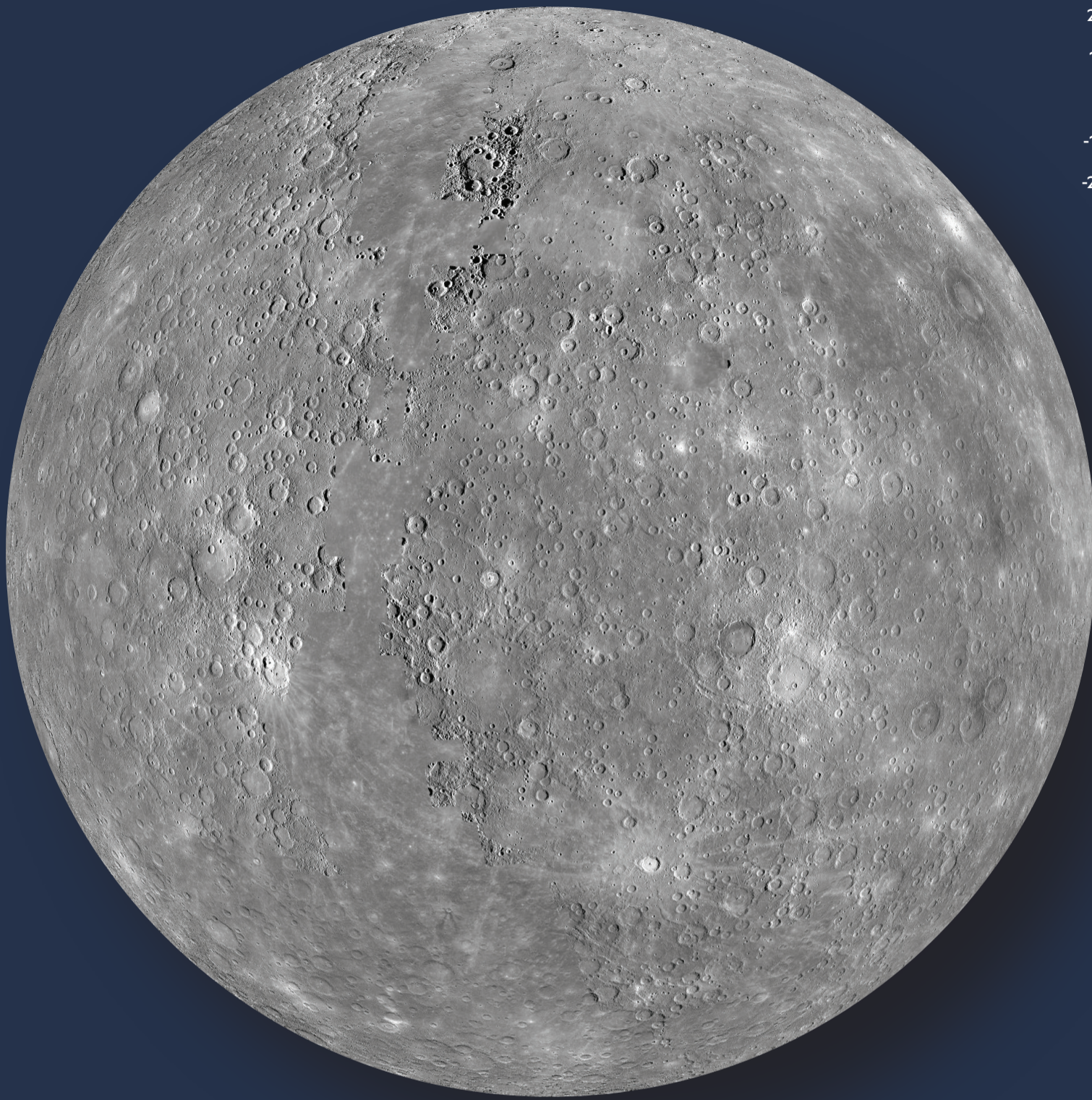


Mercury



Distance from Sun 58,000,000 km
0.4 AU

Diameter 4879 km

Gravity 3.7 m/s²

Atmosphere Composition 42% oxygen
22% hydrogen
22% sodium
6% helium
8% other

Day Length 1,408 hours

Year Length 88 Earth days

INTERESTING FACTS

Mercury is the smallest planet in the solar system – only slightly bigger than Earth’s Moon. It also has craters and a thin atmosphere like our Moon.

From the surface of Mercury, the Sun would appear more than three times larger than when viewed from Earth, and the sunlight would be as much as 11 times brighter.

While Mercury is the closest planet to the Sun, it is not the hottest (Venus is hotter due to its dense atmosphere).



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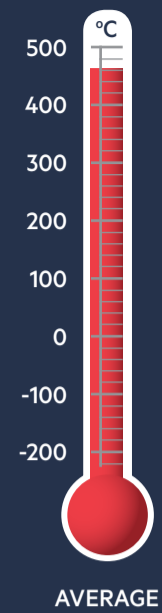
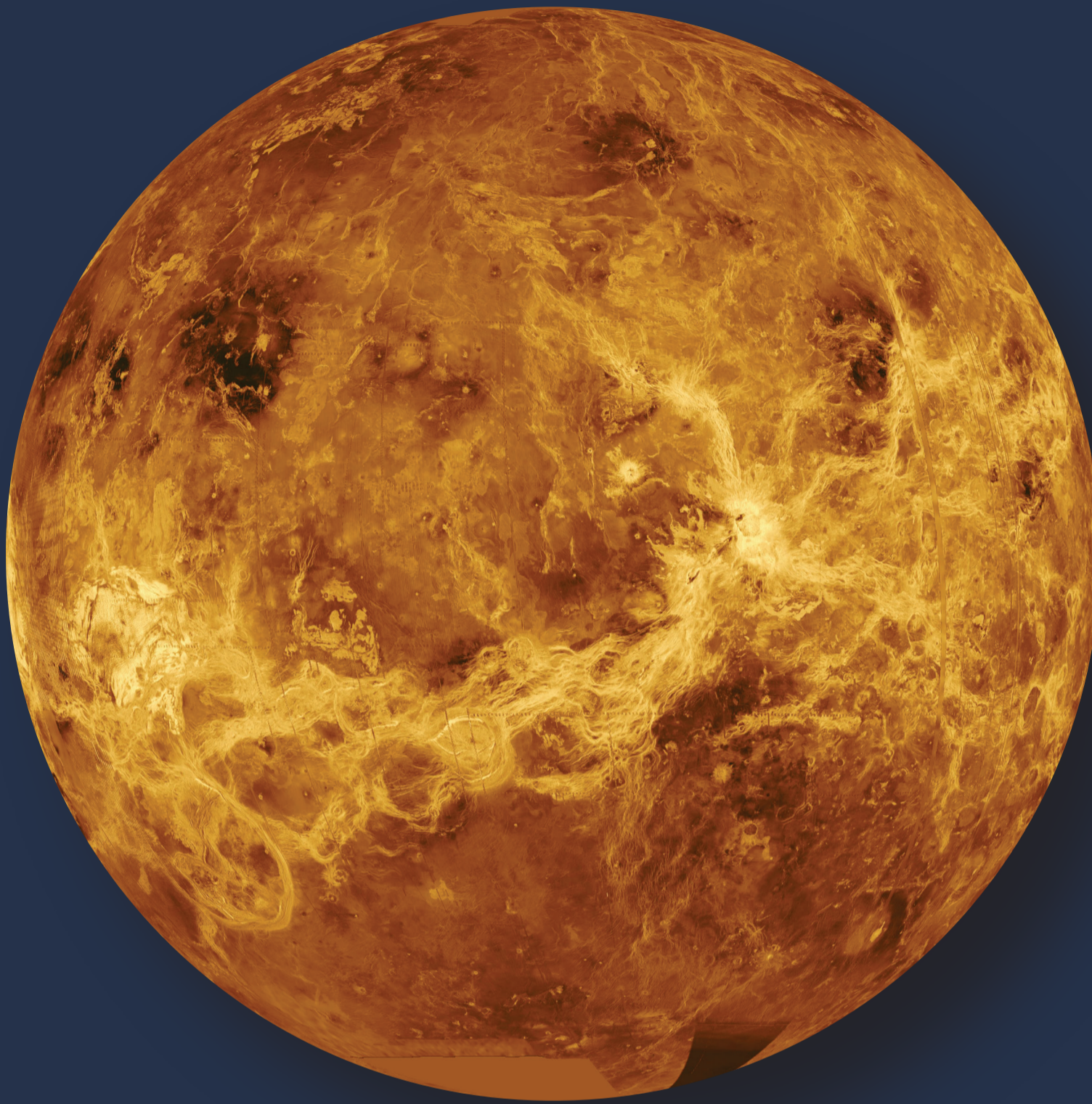


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Venus



AVERAGE

Distance from Sun 108,000,000 km
0.7 AU

Diameter 12,104 km

Gravity 8.9 m/s²

Atmosphere Composition 96.5% carbon dioxide
3.5% nitrogen
<1% other

Day Length 5,832 hours

Year Length 225 Earth days

INTERESTING FACTS

With an atmosphere of 96% carbon dioxide, Venus is the hottest planet in our Solar System and an example of the Greenhouse effect gone amuck!

Venus is fascinatingly hostile. Future missions will have to contend with not only the heat, but also frequent sulfuric acid rainstorms and very high air pressure. Standing on the surface of Venus would feel like standing under 1 km of water!

Venus is a similar size to Earth and our closest neighbour, but a very different world!



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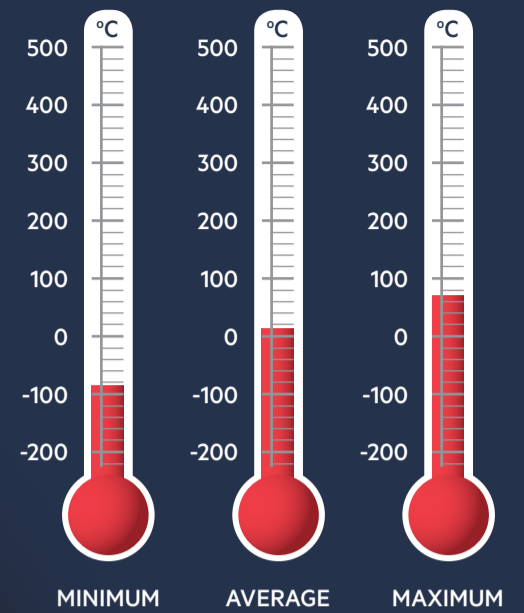
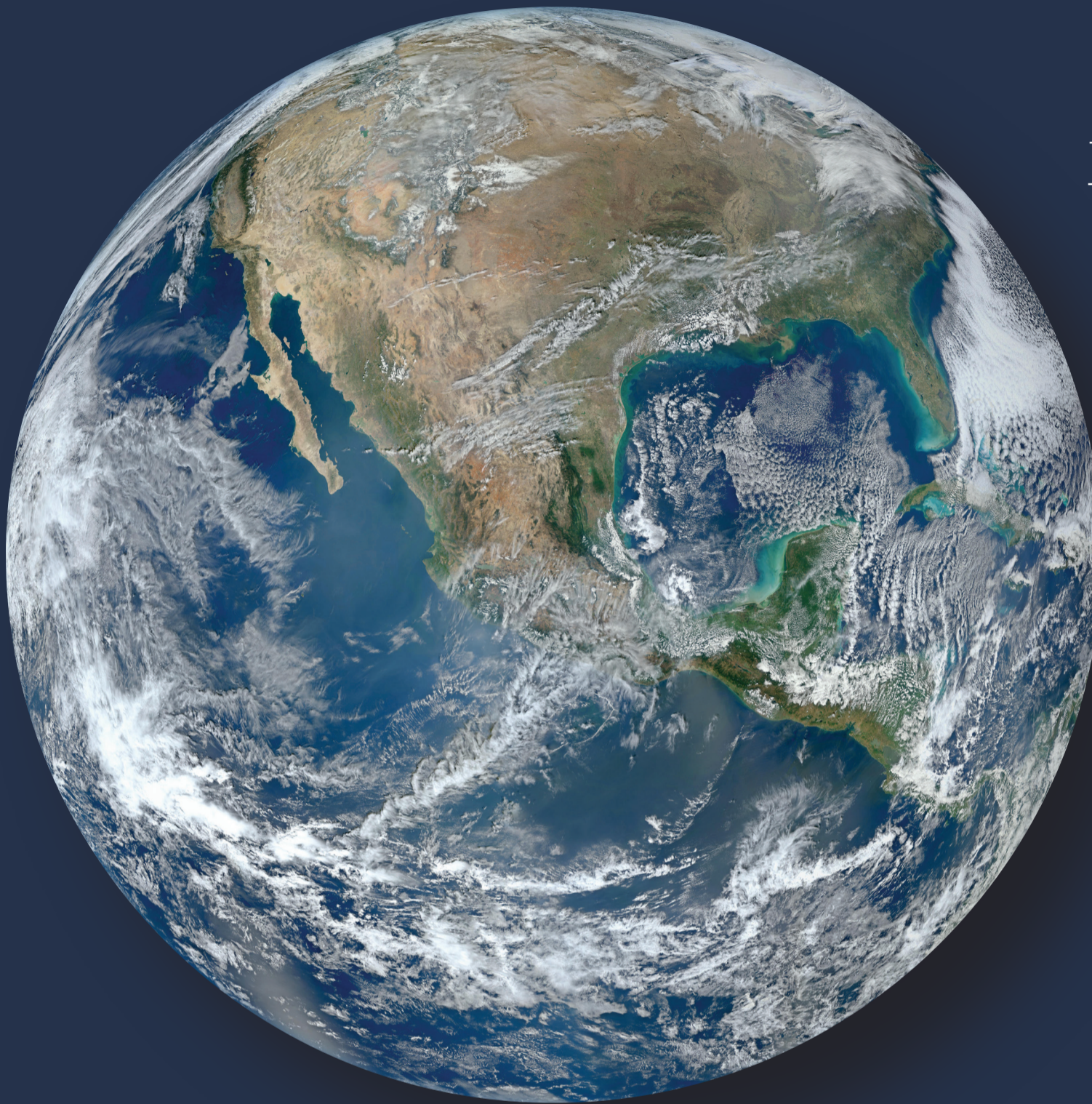


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Earth



Distance from Sun 149,600,000 km
1 AU

Diameter 12,756 km

Gravity 9.807 m/s²

Atmosphere Composition
78% nitrogen
21% oxygen
1% argon
<1% other

Day Length 24 hours

Year Length 365.2 Earth days

INTERESTING FACTS

Liquid water is very important for life. The Earth is located in the 'Goldilocks Zone'. This is the habitable zone around a star where the temperature is not too hot and not too cold – instead it is just the right temperature for water to exist as a liquid.

While 70% of the Earth is covered in water only 2.5% is fresh water, and most of this is inaccessible in glaciers and icecaps.

Earth's atmosphere is 160 km thick and composed of 78% nitrogen and 21% oxygen.



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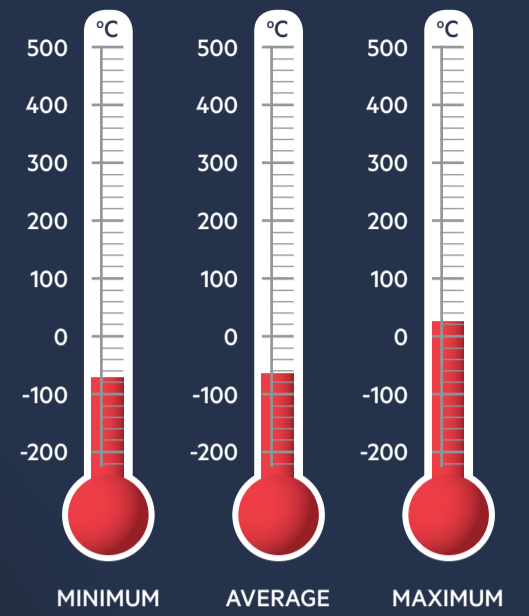
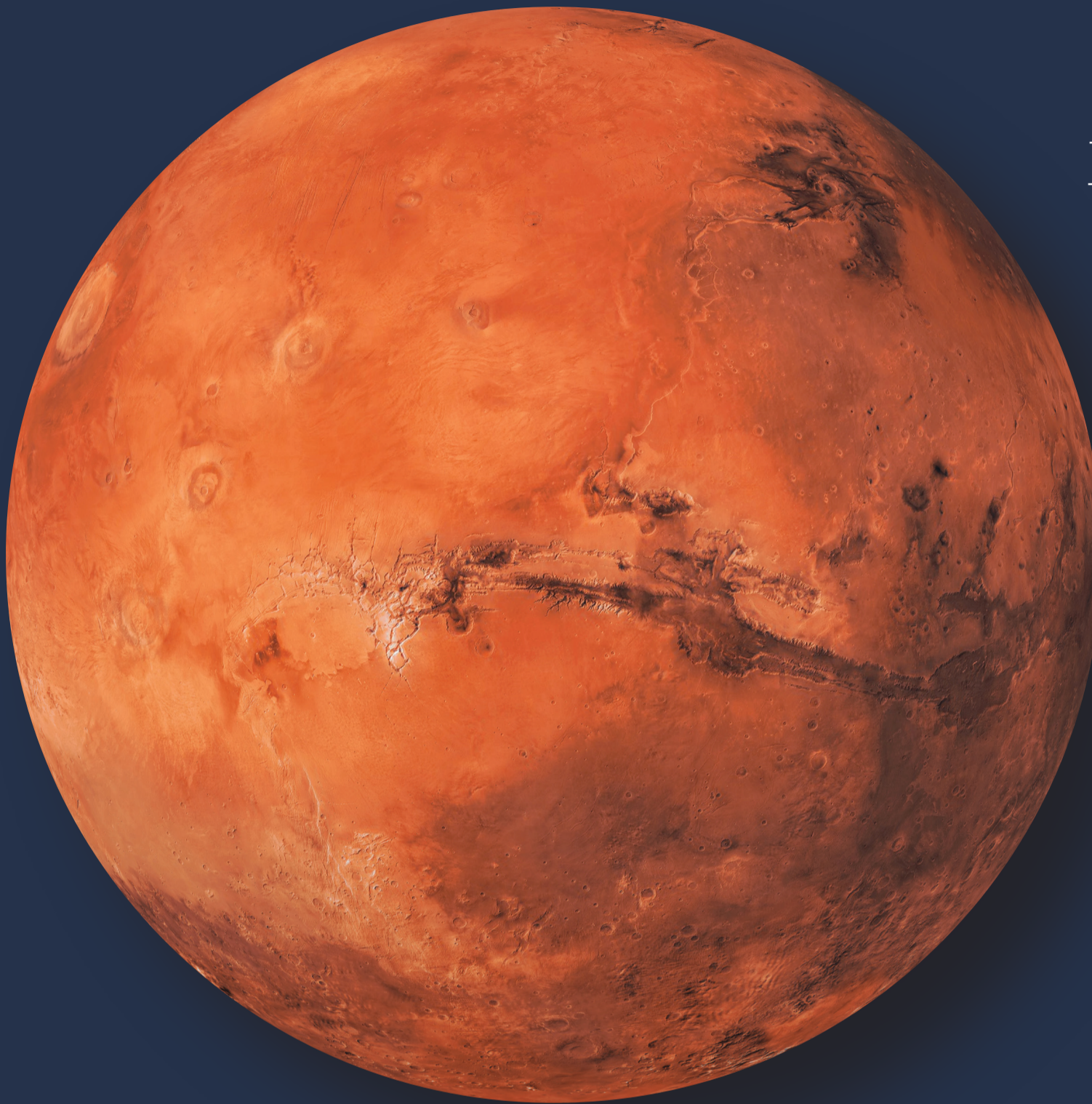


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Mars



Distance from Sun 227,900,000 km
1.5 AU

Diameter 6792 km

Gravity 1.6 m/s²

Atmosphere Composition 95% carbon dioxide
2.7% nitrogen
1.6% argon
0.7% other

Day Length 25 hours

Year Length 687 Earth days

INTERESTING FACTS

Olympus Mons, an extinct volcano on Mars, is the highest mountain in the Solar System – 2.5 times bigger than Mt Everest! Mars also has the biggest valley (Mariner Valley).

Mars is known as the Red Planet. Iron in the soil and atmosphere oxidises (rusts) giving Mars this distinctive colour.

Similar to Earth, Mars experiences seasons. It also experiences thousands of tornados or 'dust devils' every year which can get up to 2 km wide and 10 km high.



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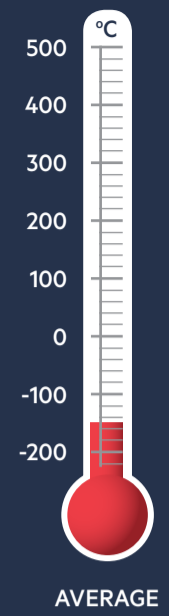
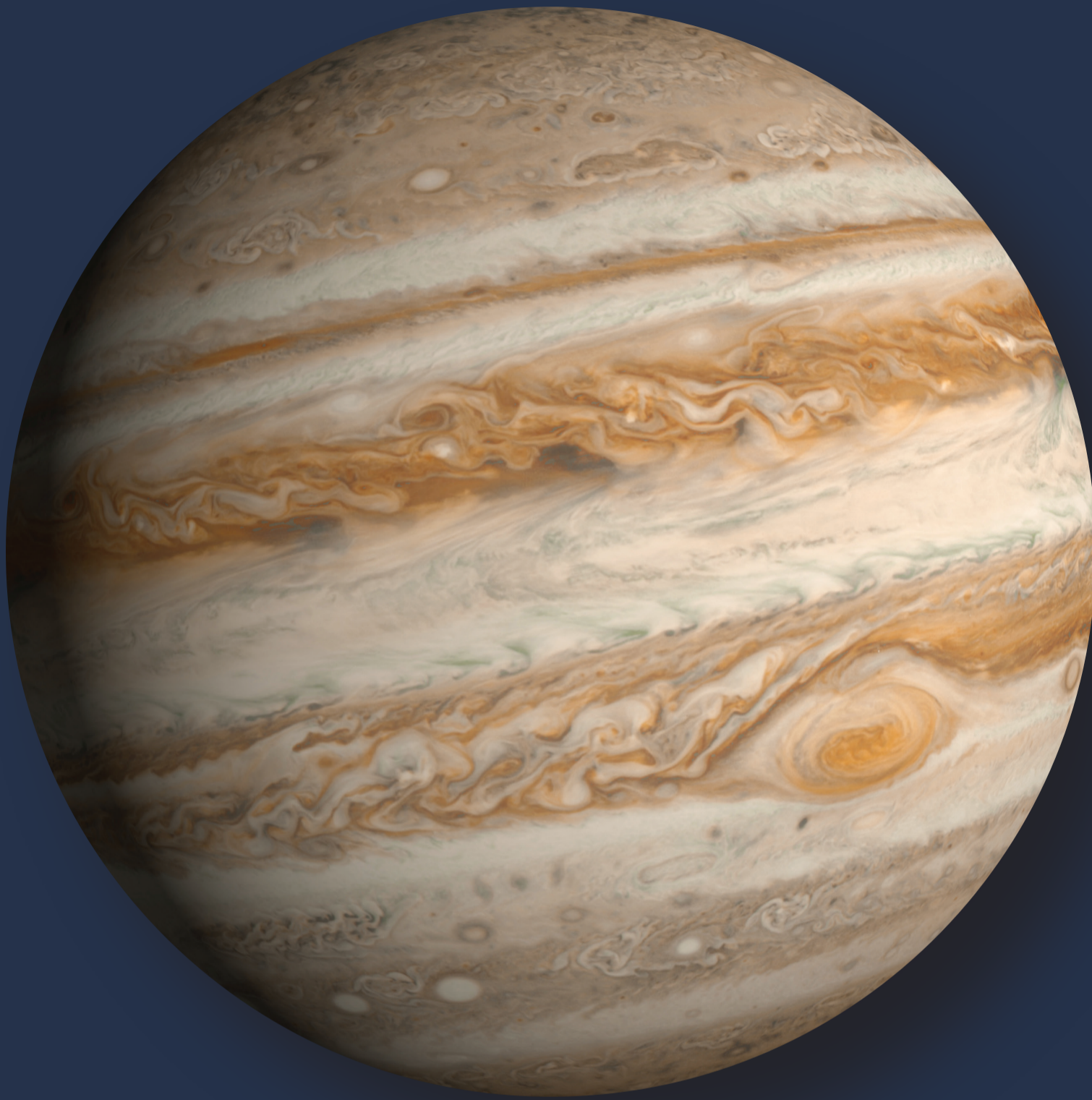


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Jupiter



Distance from Sun	778,600,000 km 5.2 AU
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Diameter	142,984 km
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Gravity	23.1 m/s ²
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Atmosphere Composition	89.8% hydrogen 10.2% helium
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Day Length	10 hours
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Year Length	12 Earth years
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INTERESTING FACTS

Jupiter is the largest planet in our Solar System – 11 Earths could fit across Jupiter's equator.

Like Saturn, Jupiter is a gas giant. Gas giants do not have a solid surface like Earth and other terrestrial planets.

The Great Red Spot is a giant cyclone-like storm on Jupiter. The storm has been continuously observed since 1830, and is twice the size of Earth. The colour bands on Jupiter are caused by powerful winds that circle the planet at 547 km/h.



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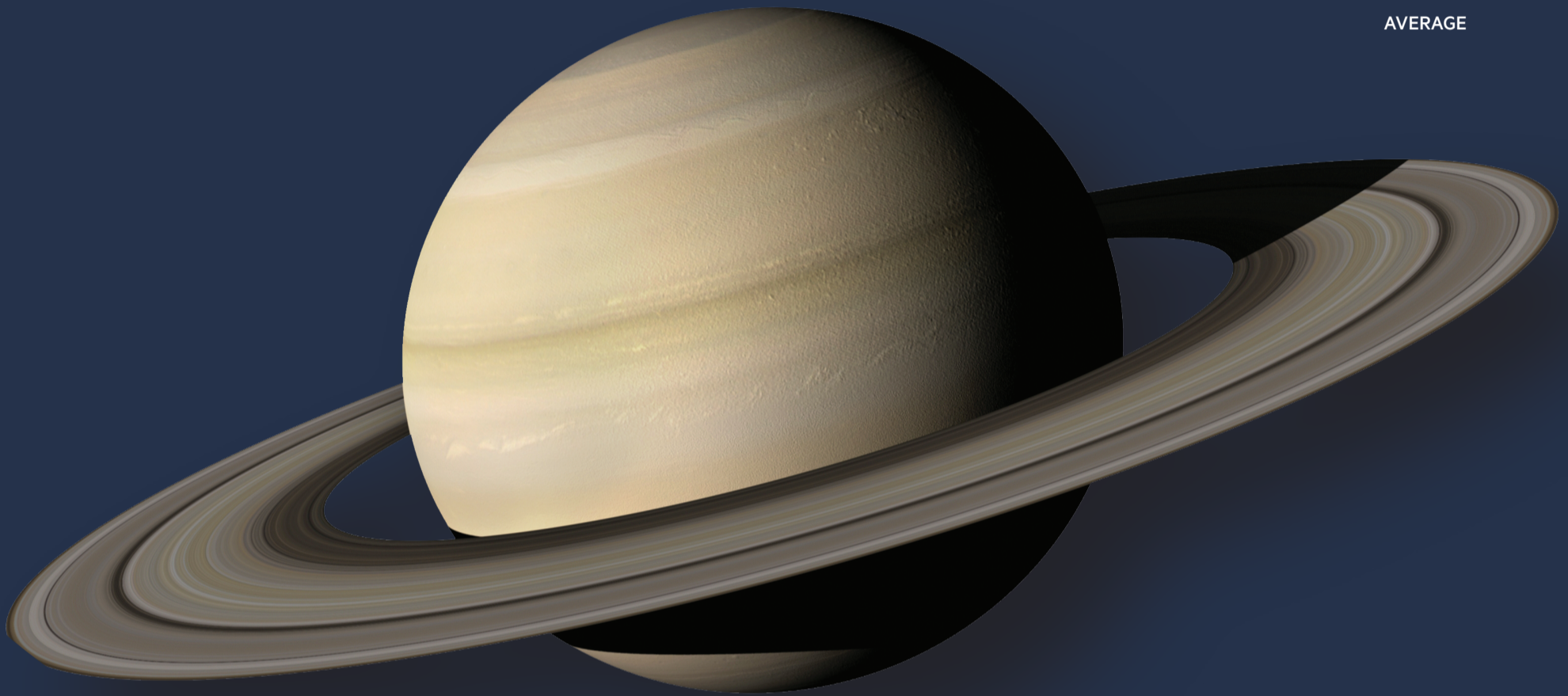
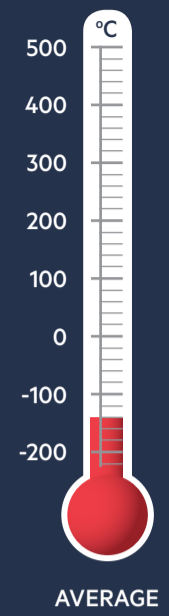


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Saturn



Distance from Sun 1,433,500,000 km
9.6 AU

Diameter 120,536 km

Gravity 9.0 m/s²

**Atmosphere
Composition** 96.3% hydrogen
3.2% helium
0.5% other

Day Length 11 hours

Year Length 29 Earth years

INTERESTING FACTS

Saturn's iconic rings are made of chunks of rock and ice. However, Saturn is slowly losing these rings as gravity pulls the rock and ice toward the planet.

53 known moons orbit Saturn, and there are more awaiting confirmation. Saturn's largest moon, Titan, is the only known world other than Earth where liquid collects on its surface. Liquid methane and ethane lakes cover the surface.

A monstrous thunderstorm appears on Saturn every 28 to 30 years, called the 'Great White Spot'.



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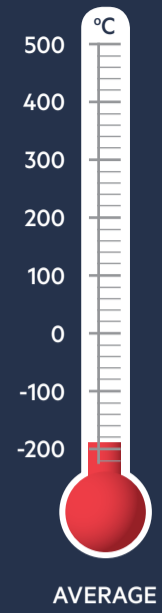
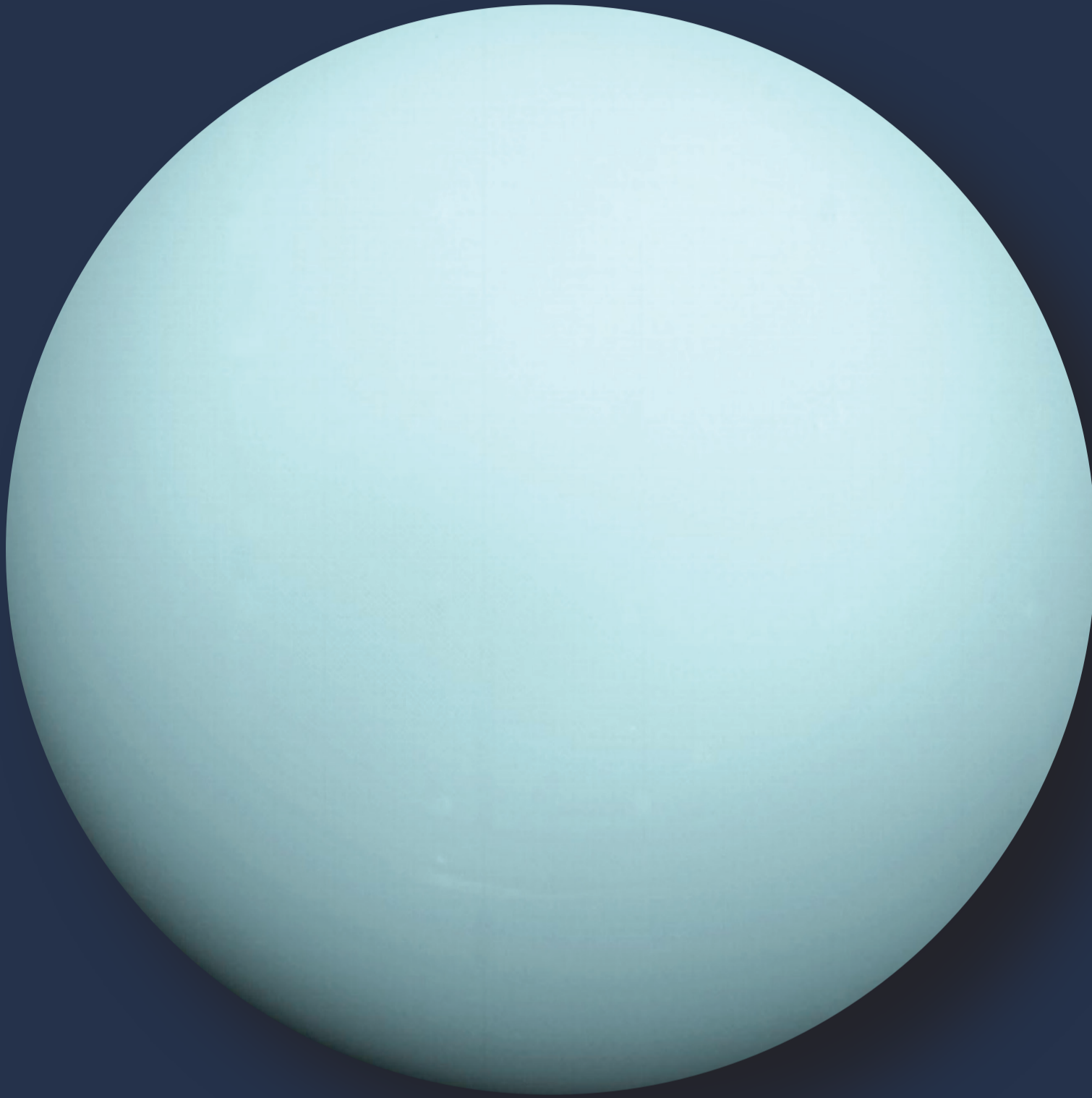


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Uranus



Distance from Sun 2,872,500,000 km
19.2 AU

Diameter 51,118 km

Gravity 8.7 m/s²

**Atmosphere
Composition** 82.5% hydrogen
15.2% helium
2.3% methane

Day Length 17 hours

Year Length 84 Earth years

INTERESTING FACTS

Uranus is the only planet in our Solar System that rotates on its side – it almost appears to ‘roll’ around the Sun. This sideways rotation – possibly caused by a collision with a large object – causes extreme seasons. Summer for the planet’s north consists of 21 Earth years of constant daylight, while winter is 21 years of complete darkness.

The blue-green colour of Uranus is due to the methane in the atmosphere.



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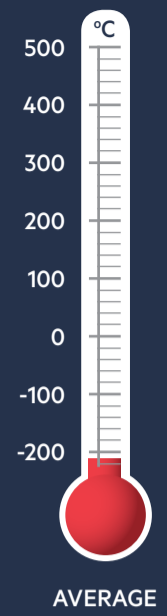
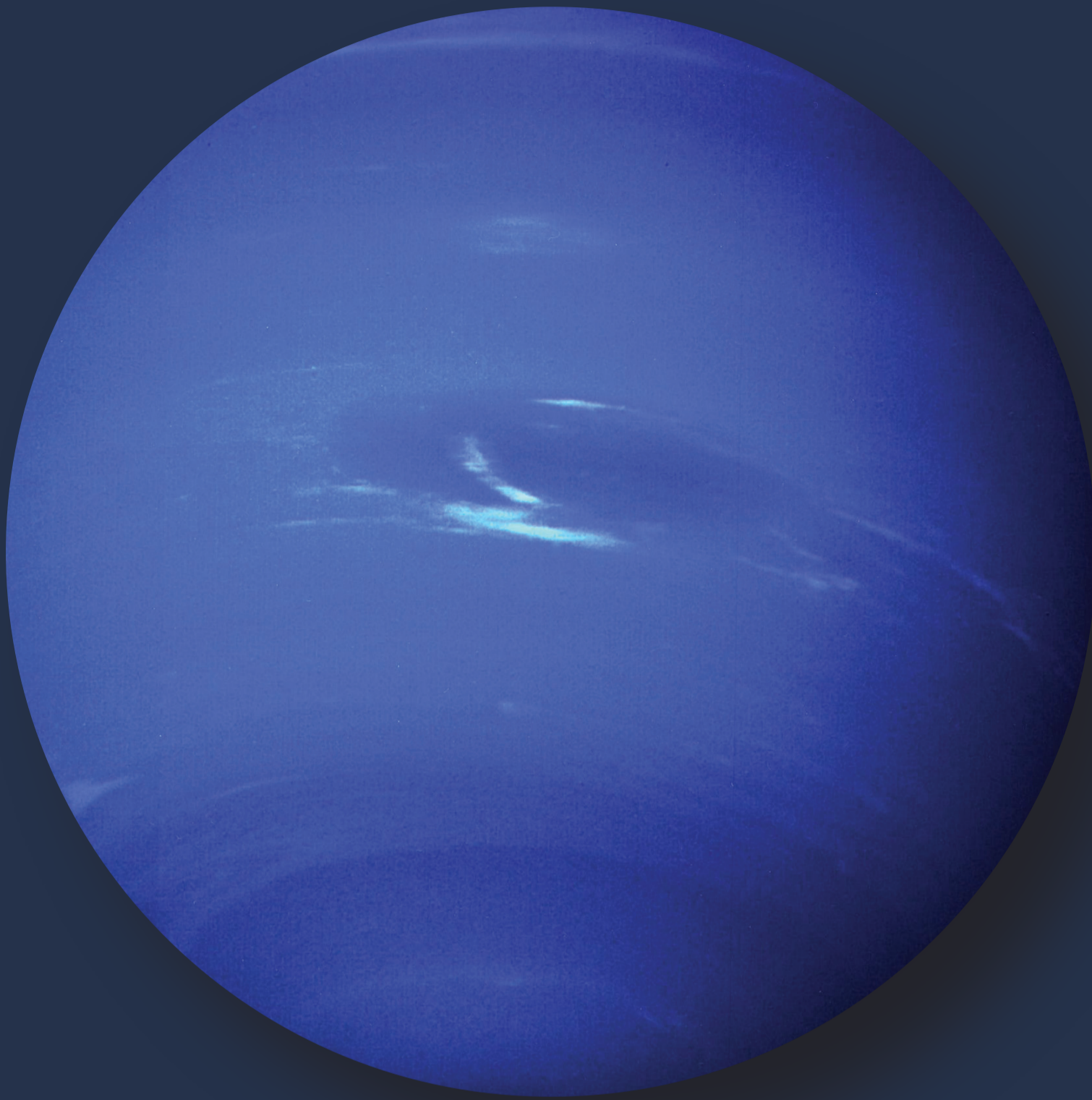


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Neptune



Distance from Sun 4,495,100,000 km
30.1 AU

Diameter 49,528 km

Gravity 11.0 m/s²

**Atmosphere
Composition** 80% hydrogen
19% helium
1% methane

Day Length 16 hours

Year Length 165 Earth years

INTERESTING FACTS

Neptune and Uranus are ice giants – they do not have a solid surface. Instead the gasses of the atmosphere surround liquid methane, ammonia and water. The centre of the planet is a heavier solid core.

There is less friction on Neptune than on Earth and winds speed around the planet at 2000 km/h. These winds are the fastest in the Solar System, and faster than the speed of sound. Earth's most powerful winds only reach 400 km/h.



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