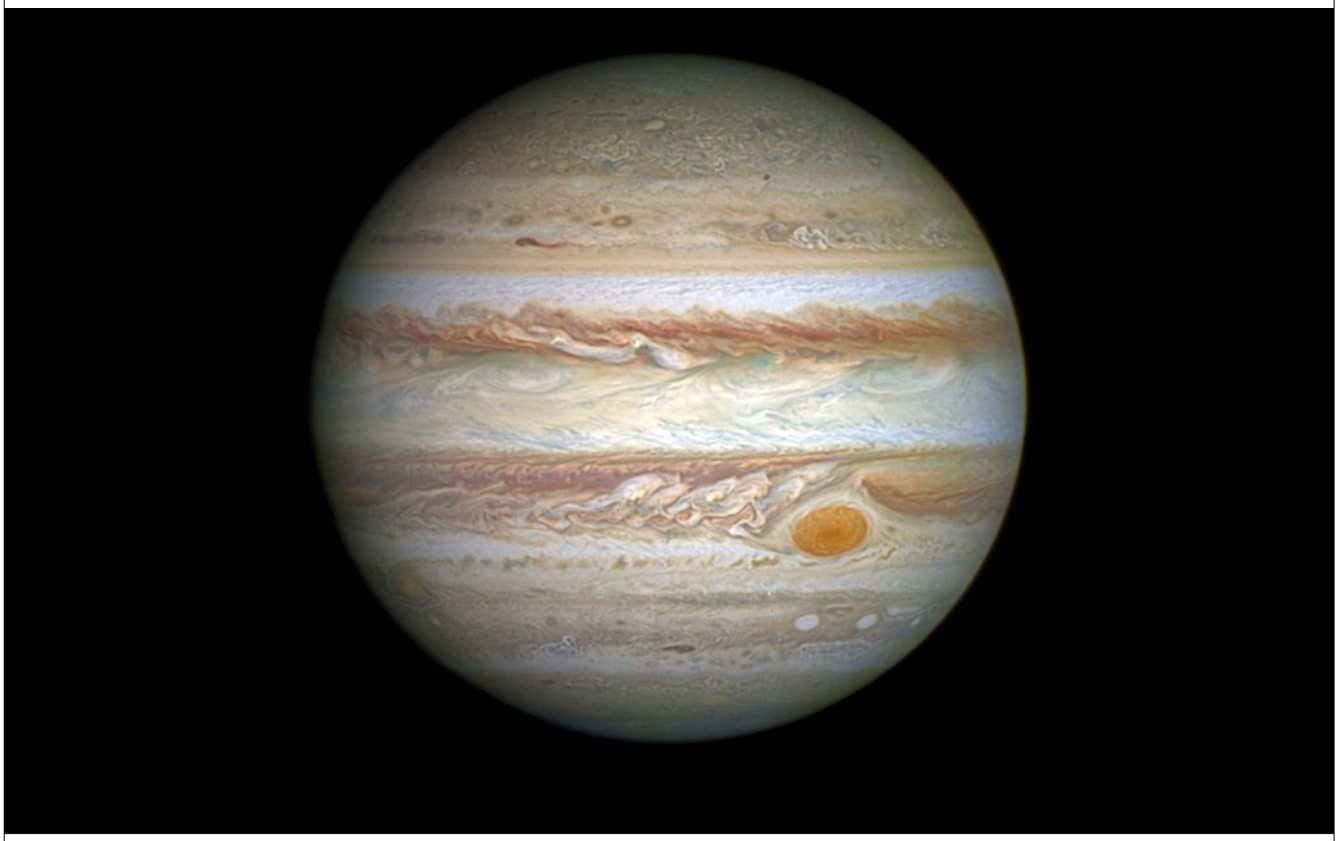
Jupiter

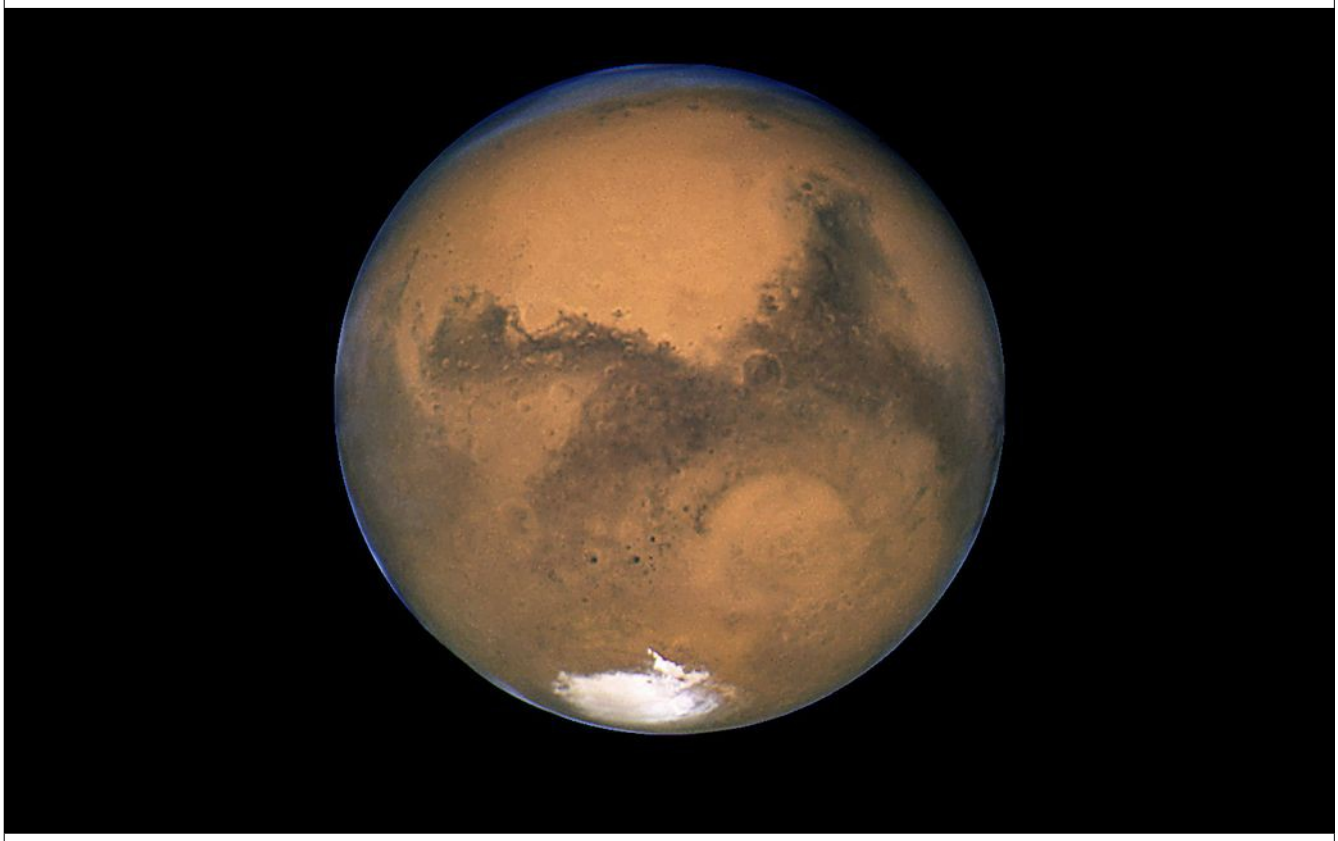


Quick Facts:

Diameter: 86,900 miles or 11.2 Earths.
Mass: 318 Earths.
Volume: 1321 Earths.
Orbit: 484 million mi. or 5.2 Earths (AU).
Orbital Period: 11.9 years.
Rotation: 9h55m.
Density: 1.3 x water.
Surface Gravity: 2.5 Earths.
Satellites: Approx 100 as of mid-2025.

Jupiter April 23, 2014 NASA, ESA, A. Simon (GSFC). Quick reference card by Derek Wallentinsen.

Mars

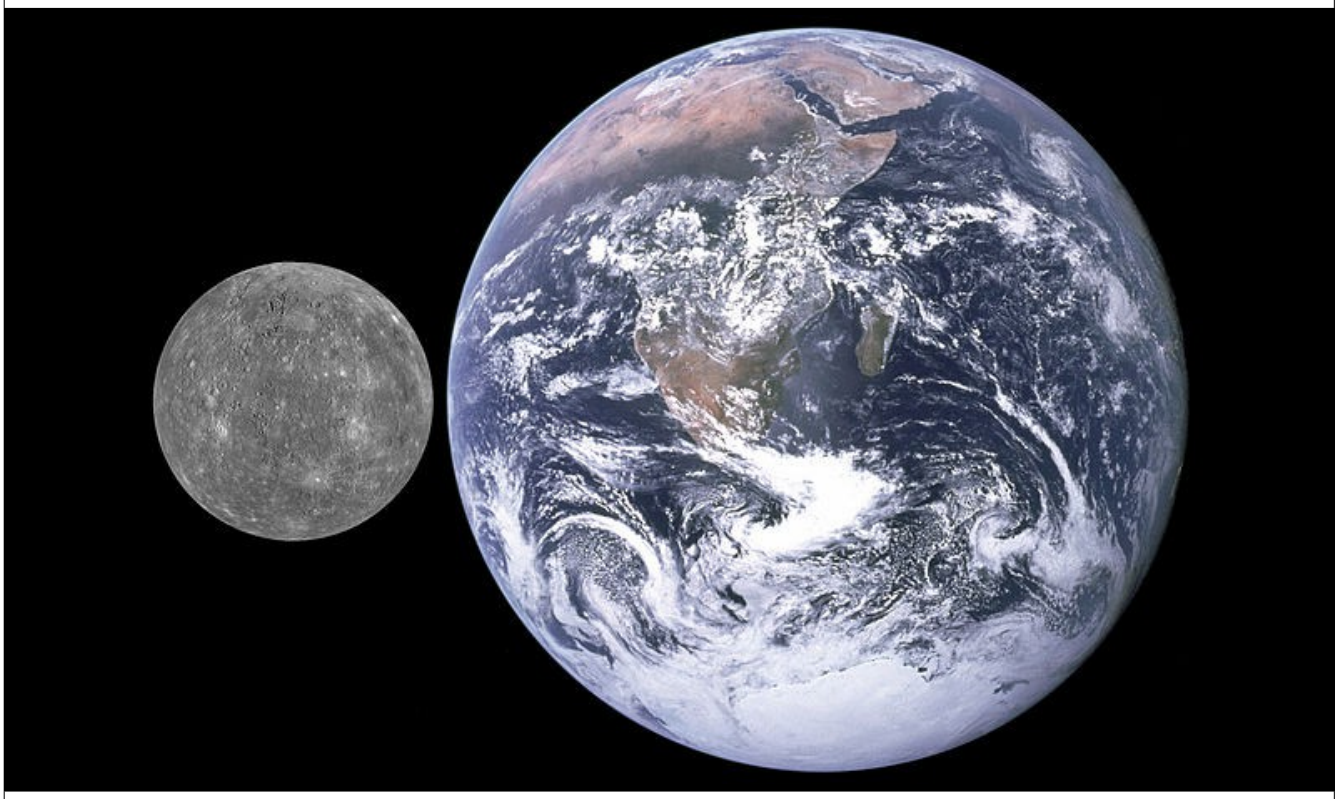


Quick Facts:

Diameter: 4,200 miles or 0.5 Earths.
Mass: 0.11 Earths.
Volume: 0.15 Earths.
Orbit: 142 million mi. or 1.5 Earths (AU).
Orbital Period: 1.9 years.
Rotation: 24.6 hours.
Density: 3.9 x water.
Surface Gravity: 0.4 Earths.
Satellites: 2.

Mars 23 August 2003 NASA, ESA, HHT (STScI/AURA). Quick reference card by Derek Wallentinsen.

Mercury

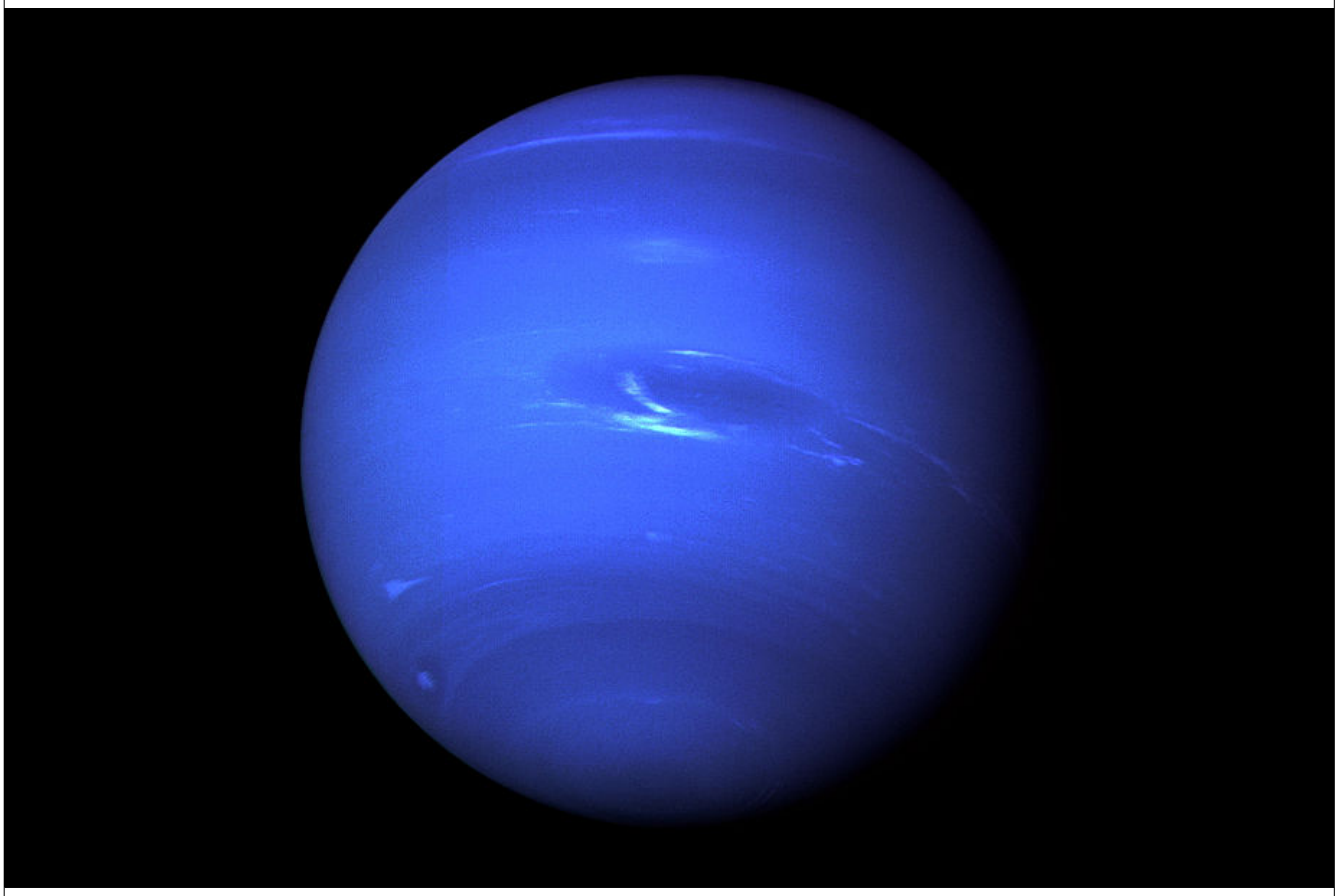


Quick Facts:

Diameter: 3,032 miles or 0.38 Earths.
Mass: 0.055 Earths.
Volume: 0.056 Earths.
Orbit: 36 million mi. or 0.39 Earths (AU).
Orbital Period: 88 days.
Rotation: 58.65 days.
Density: 5.4x water.
Surface Gravity: 0.38 Earths.
Satellites: none.

NASA Mercury image: NASA / APL (from MESSENGER). Quick reference card by Derek Wallentinsen.

Neptune

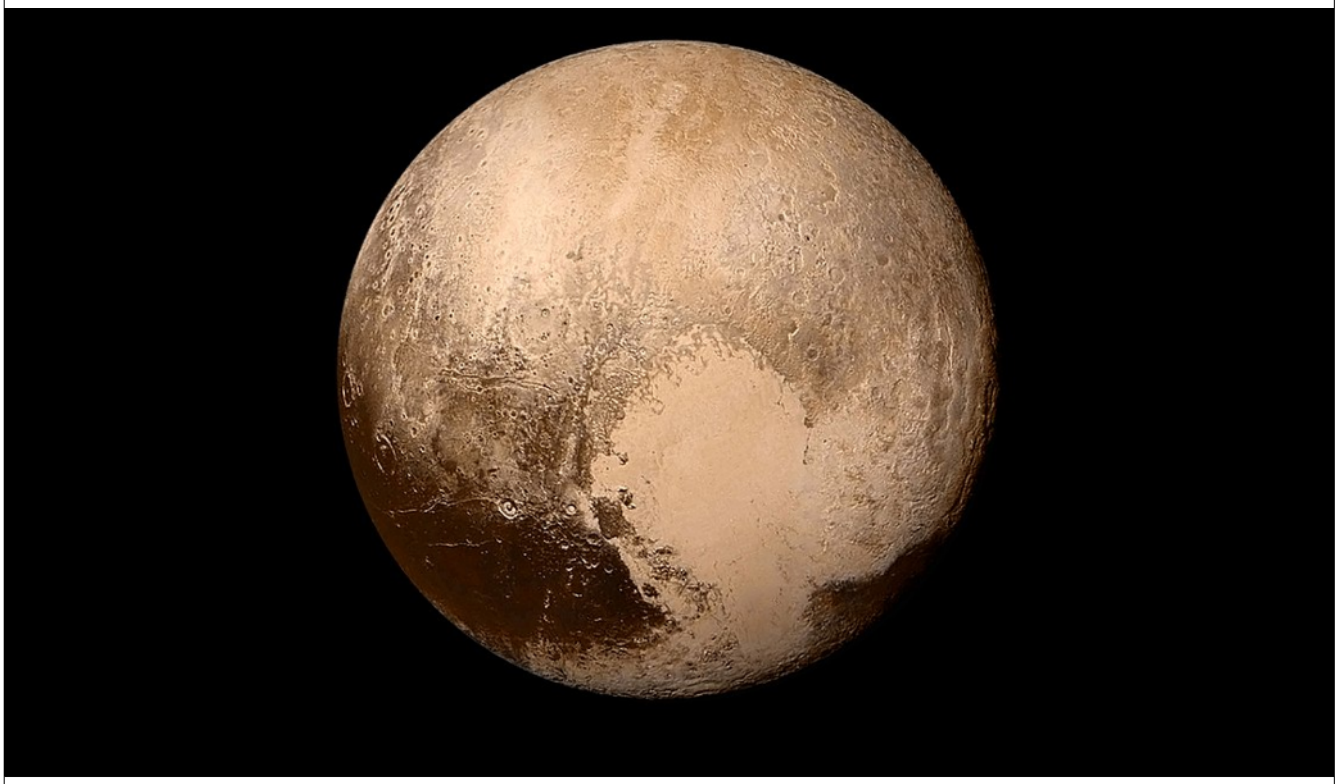


Quick Facts:

Diameter: 30,780 miles or 3.9 Earths.
Mass: 17.1 Earths.
Volume: 58 Earths.
Orbit: 2.8 billion mi. or 30.4 Earths (AU).
Orbital Period: 164.8 years.
Rotation: 16h07m.
Density: 1.6x water.
Surface Gravity: 1.1 Earths.
Satellites: 16 as of 2025.

Image NASA - JPL image Voyager 2 August 1989. Quick reference card by Derek Wallentinsen.

Pluto



In a telescope, Pluto looks just like a star. To confirm observation of this dwarf planet, look again on a later night to see movement.

Quick Facts:

Diameter: 1,479 miles or 0.19 Earths.

Mass: 0.00218 Earths.

Volume: 0.00651 Earths.

Orbit: 3.65 billion mi. or 39.3 Earths (AU).

Orbital Period: 248 years.

Rotation: 6d9h.

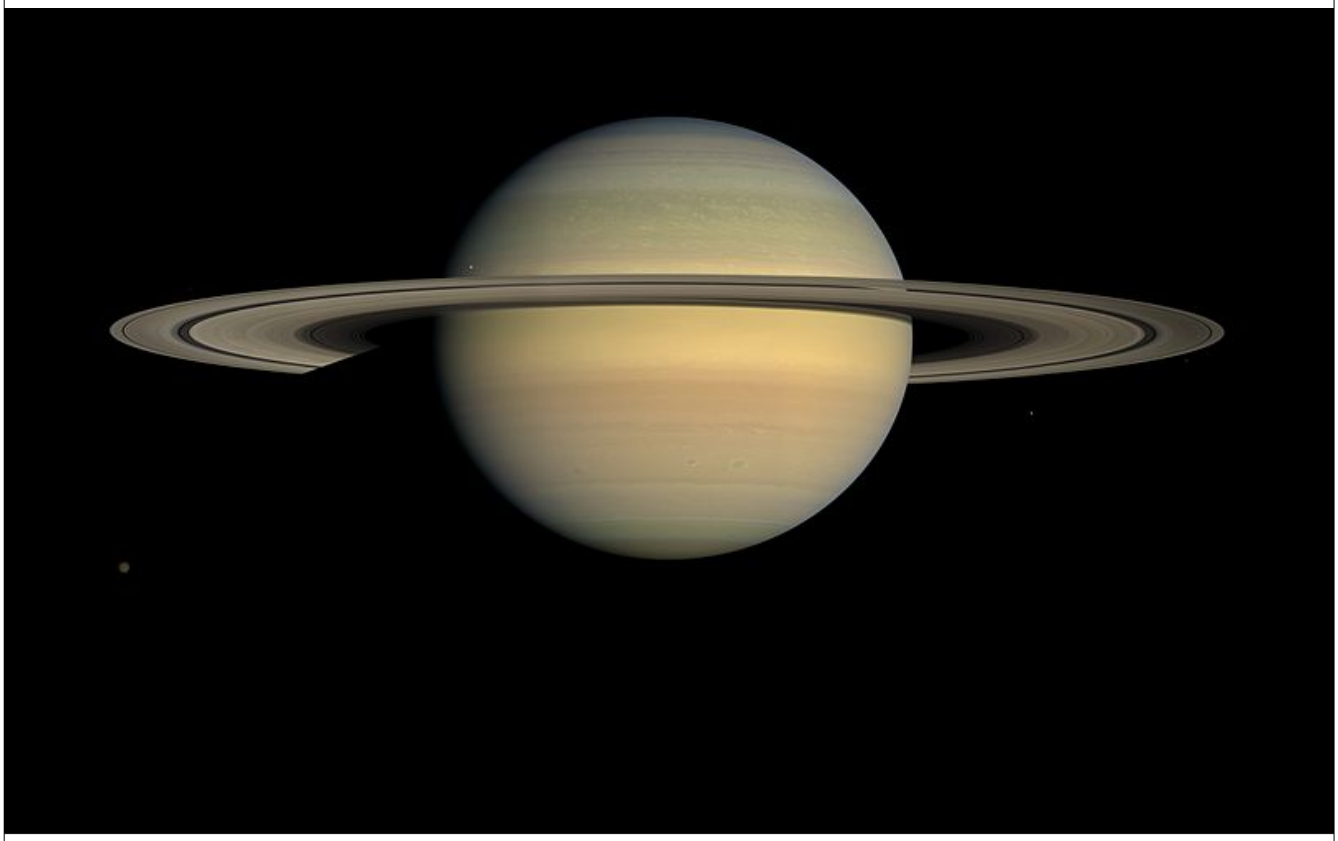
Density: 1.8x water.

Surface Gravity: 0.06 Earths.

Satellites: 5 as of 2025.

Image NASA New Horizons July 14, 2015. Quick reference card by Derek Wallentinsen.

Saturn

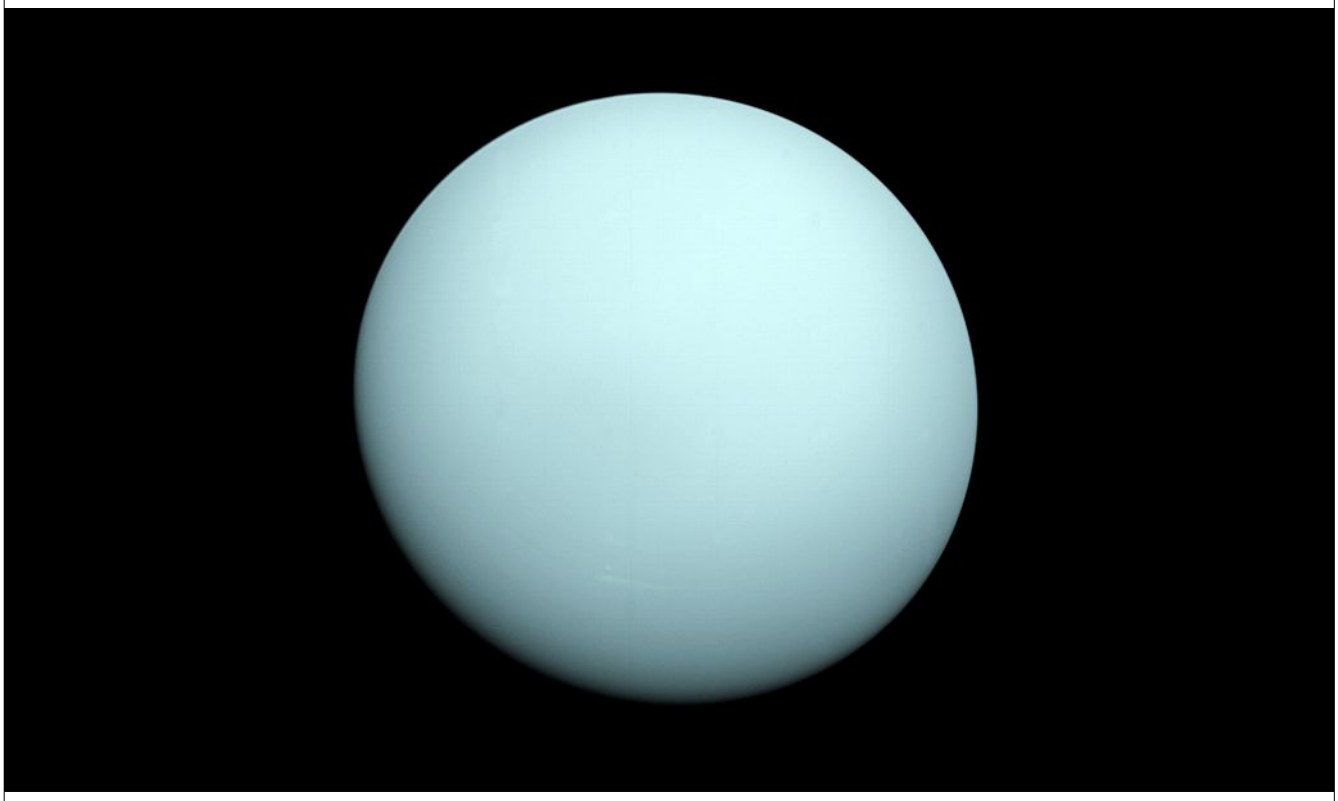


Quick Facts:

Diameter: 74,900 miles or 9.4 Earths.
Mass: 95.2 Earths.
Volume: 764 Earths.
Orbit: 891 million mi. or 9.6 Earths (AU).
Orbital Period: 29.5 years.
Rotation: 10h34m.
Density: 0.7 – less than water!
Surface Gravity: 1.1 Earths.
Satellites: 274 as of early 2025.

Saturn from Cassini July 2008 courtesy NASA . Quick reference card by Derek Wallentinsen.

Uranus

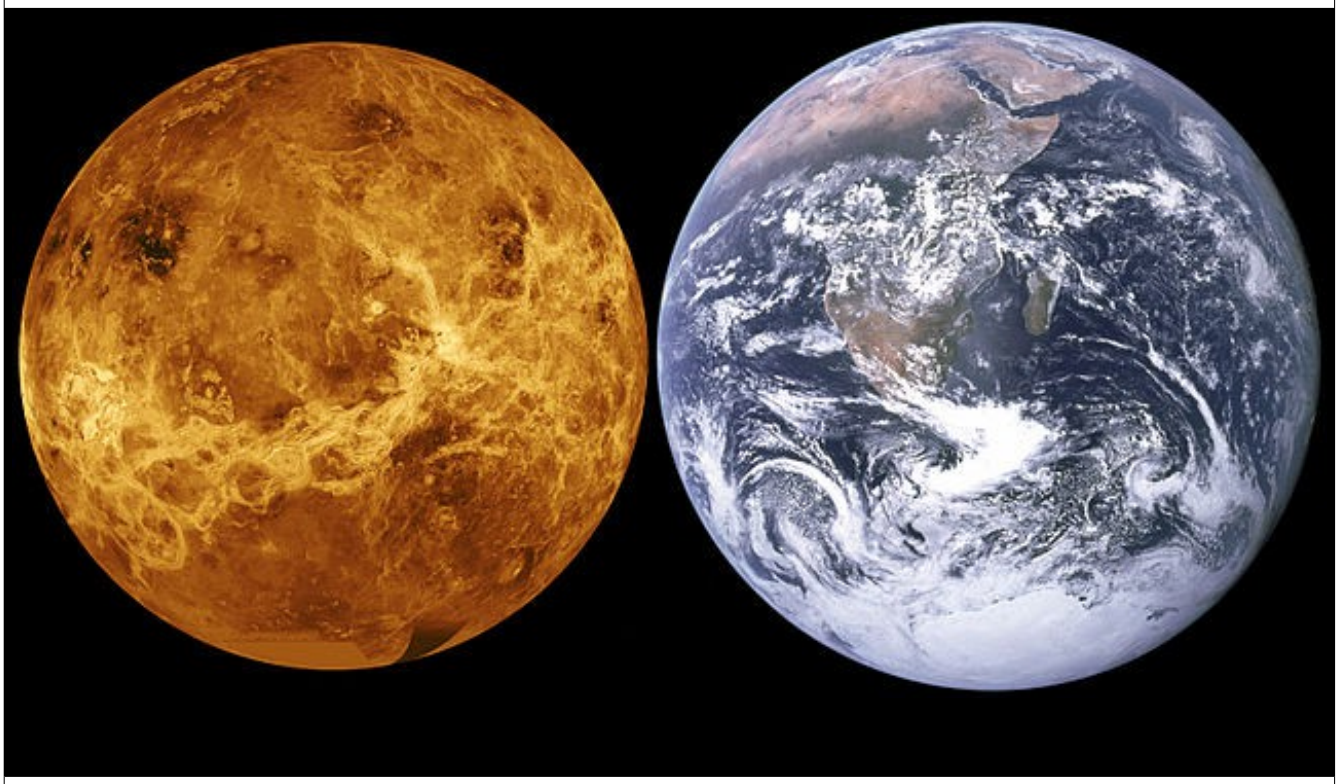


Quick Facts:

Diameter: 31,770 miles or 4.0 Earths.
Mass: 14.5 Earths.
Volume: 63 Earths.
Orbit: 1.8 billion mi. or 19.2 Earths (AU).
Orbital Period: 84.3 years.
Rotation: 17h14m.
Density: 1.3x water.
Surface Gravity: 0.9 Earths.
Satellites: 29 as of 2025.

Image NASA/JPL-Caltech Voyager 2 in 1986. Quick reference card by Derek Wallentinsen.

Venus



Quick Facts:

Diameter: 7,523 miles or 0.95 Earths.
Mass: 0.82 Earths.
Volume: 0.86 Earths.
Orbit: 67 million mi. or 0.72 Earths (AU).
Orbital Period: 224.7 days.
Rotation: 243 days (retrograde).
Density: 5.2x water.
Surface Gravity: 0.90 Earths.
Satellites: none.

NASA Venus image: NASA / JPL (from Magellan). Quick reference card by Derek Wallentinsen.