

Earth

The blue oasis

Earth combines stable liquid water, a protective atmosphere and geological activity that have allowed life as we know it to develop. Here it is the reference for sizes, masses and distances.

Type	Rocky planet
Diameter	12,742 km
Mass (Earth = 1)	1 Earth mass
Average distance	1 AU · 149.6 million km
Orbital period	365.256 days
Rotation	23 h 56 min
Temperature	≈ 15 °C on average
Main orbiting bodies	The Moon

Compare with Earth

Our reference for comparing other worlds.

Understanding Earth

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Composition and interior

Earth has an iron and nickel core, a rocky mantle and a crust divided into moving plates. Plate tectonics renews parts of the surface and contributes to the carbon cycle over very long periods.

Atmosphere and environment

The atmosphere contains about 78% nitrogen and 21% oxygen, with argon, carbon dioxide and water vapour. Oceans cover about 71% of the surface and play a major role in regulating climate.

Exploration

Thousands of satellites observe climate, oceans, ice and the atmosphere. The International Space Station maintains a continuous human presence in orbit and serves as a scientific laboratory.

A remarkable fact

Earth is the only world known to support life and stable liquid water on its surface. This does not prove it is alone, but no extraterrestrial life has yet been confirmed.

Sources and limitations

NASA Science: <https://science.nasa.gov/earth/facts/>

Online fact sheet: <https://systeme-solaire-3d.fr/en/terre>

Values are rounded. The artistic view changes sizes and distances for readability. Check dated information before reusing it.