

You can find an overview about the places of the planets and the place of the sun here:

[https://astrowis.de/wp-content/uploads/Planetenweg\\_englisch.pdf](https://astrowis.de/wp-content/uploads/Planetenweg_englisch.pdf)

Show neighbouring planets on the map:

**Venus:**

<https://www.openstreetmap.org/?mlat=52.244161&mlon=14.412525#map=17/52.24416/14.41252>

**Mars:**

<https://www.openstreetmap.org/?mlat=52.243415&mlon=14.411109#map=17/52.24341/14.41111>

# Planet Earth



Picture: (Earth - The Blue Marble)):

Author: NASA/Apollo 17 crew, taken by Harrison Schmitt or Ron Evans

[https://en.wikipedia.org/wiki/Earth#/media/File:The\\_Blue\\_Marble\\_\(remastered\).jpg](https://en.wikipedia.org/wiki/Earth#/media/File:The_Blue_Marble_(remastered).jpg)

Earth is one of the planets that is not named after a Roman god or goddess (astronomical symbol:  $\oplus$ ). It is the largest of the four rocky planets and lies in the Sun's habitable (viable) zone. The earth gives us the basis for life and is the only inhabited planet in the solar system or so far the only celestial body on which life demonstrably exists. Therefore, it is often called mother earth or spaceship earth. Due to the blue colour, which is produced by the large water surface of the earth, it is called also blue planet. The presence of liquid water is one of the special features of the Earth and distinguishes it from the other planets. Besides the normal year with a little more than 365 days, there is also the Platonic year with about 25,000 years. In this time, the earth axis circles once the surface of a cone whose axis stands perpendicularly on the orbit of the earth. The earth axis runs in this period through all signs of the zodiac. The earth has a moon, the earth moon.

**Important Data of the Earth:**

Semi-major axis:	1 AU (149.6 million km)
Perihelion – Aphelion:	0.98 – 1.02 AU
Eccentricity:	0.017
Ecliptic inclination:	0°
Sidereal orbital period:	365.256 d
Average orbital speed:	29.78 km/s
Equatorial diameter:	12,756.32 km
Pole diameter:	12,713.55 km
Mass:	1 mass of earth ( $5.97 \cdot 10^{24}$ kg)
Mean density:	5.515 g/cm <sup>3</sup>
Surface gravity:	9.81 m/s <sup>2</sup>
Escape velocity:	11.186 km/s
Sidereal rotation period:	23 h 56 min 4.1 s
Axial tilt:	23.44°
Surface pressure:	1.014 bar
Surface temperature (min. – mean – max.):	184 K (–93 °C) - 288 K (+15 °C) - 331 K (+58 °C)

Link: <https://en.wikipedia.org/wiki/Earth>

**Earth moon:**

[https://astrowis.de/wp-content/uploads/Mond\\_Erdmond\\_englisch.pdf](https://astrowis.de/wp-content/uploads/Mond_Erdmond_englisch.pdf)