

Moon Titania



Picture (Titania):

Author: Titania_(moon)_color.jpg: NASA/JPL

[https://en.wikipedia.org/wiki/Titania_\(moon\)#/media/File:Titania_\(moon\)_color,_cropped.jpg](https://en.wikipedia.org/wiki/Titania_(moon)#/media/File:Titania_(moon)_color,_cropped.jpg)

The name of the moon comes from *Midsummer Night's Dream* by William Shakespeare. In this play, it designates the fairy queen Titania, who is the wife of Oberon. Titania performs a bound rotation, so that she always inclines the same surface towards Uranus. The axis of rotation is approximately perpendicular to the orbital plane, causing extreme seasons. She is separated from her spouse by the boundary of the magnetosphere. Titania orbits Uranus within this sphere. Water ice and carbon dioxide have been detected on its surface so far. As colours red and blue dominate.

Important data of Titania:

Semi-major axis:	436,300 km
Periapsis – Apoapsis:	435,800 km – 436,800 km
Eccentricity:	0.0011
Inclination (Uranus):	0.079°
Sidereal orbit period:	8.71 d
Average orbit speed:	3.87 km/s
Mean diameter:	1,577.8 km
Mass:	about 0.0006 Earth masses ($3.527 \cdot 10^{21}$ kg)
Mean density:	1.711 ± 0.005 g/cm ³
Sidereal rotation period:	8.71 Tage
Axis tilt:	0.0°
Surface gravity:	0.38 m/s ²
Escape velocity:	773 m/s

Surface temperature: -213 °C until -184 °C; (60 K–89 K)

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