

Moon Oberon



Picture (Oberon):

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[https://en.wikipedia.org/wiki/Oberon_\(moon\)#/media/File:Oberon in true color by Kevin M. Gill.jpg](https://en.wikipedia.org/wiki/Oberon_(moon)#/media/File:Oberon_in_true_color_by_Kevin_M._Gill.jpg)

The name of the moon comes from *Midsummer Night's Dream* by William Shakespeare. In this play it designates the elf king Oberon, who is the husband of Titania. Since its orbit is outside the magnetosphere of Uranus, it is directly hit by the solar wind. He has a bound rotation. It moves similarly in its orbit as Uranus does in its orbit around the sun, it rolls around Uranus. This creates seasons and there are polar nights and polar days at the poles. It is the most cratered object of the large moons of Uranus. Its surface is dominated by water ice.

Important data of Oberon:

Semi-major axis:	583,519 km
Periapsis – Apoapsis:	582,702 km – 584,336 km
Eccentricity:	0.0014
Inclination (Uranus):	0.068°
Sidereal orbit period:	13.46 d
Average orbit speed:	3.15 km/s
Mean diameter:	1,522.8 km
Mass:	about 0.0005 Earth masses ($3.01 \cdot 10^{21}$ kg)
Mean density:	1.63 g/cm ³
Sidereal rotation period:	13.46 Tage
Axis tilt:	0.0°
Surface gravity:	0.35 m/s ²
Escape velocity:	726 m/s
Surface temperature:	–203 °C until –193 °C; (70 K until 80 K)

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