

Moon Umbriel

Mass: $1.2 \cdot 10^{21}$ kg

Orbital Period: 4.1 days

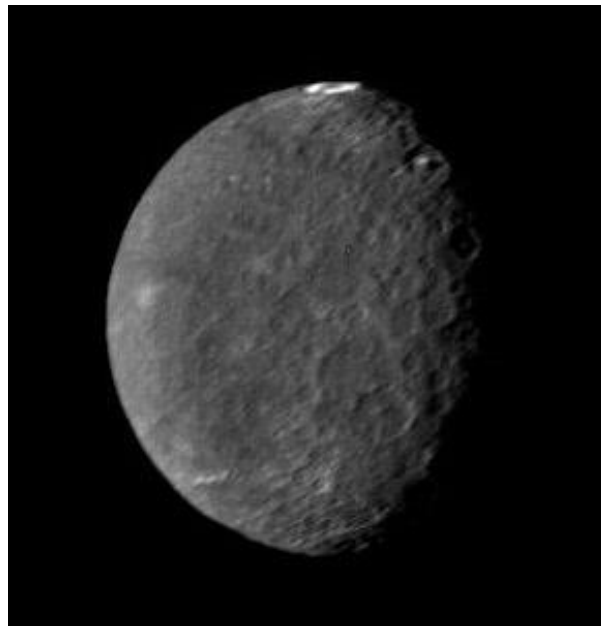
Distance: 266,300 km - here: 26.6 cm

Diameter: 1,169 km - here: 1.2 mm

Sponsored by:

Maria, Florian, Mike and Finley Plathe, Erkner

Moon Umbriel



Picture (Umbriel):

Author: NASA / Jet Propulsion Lab

[https://en.wikipedia.org/wiki/Umbriel_\(moon\)#/media/File:PIA00040_Umbrielx2.47.jpg](https://en.wikipedia.org/wiki/Umbriel_(moon)#/media/File:PIA00040_Umbrielx2.47.jpg)

The name of the moon comes from literature and is named after the malevolent gloomy spirit in Alexander Pope's verse epic "The Curl Robbery". The name is derived from the Latin word for shadow (umbra). The moon performs a bound rotation. Since its rotational matter is perpendicular to the axis of Uranus, it practically rolls around the planet. Because of this

constellation, there are large seasonal variations on the moon. So far, water ice and carbon dioxide have been detected on its surface.

Important data of Umbriel:

Semi-major axis:	266,300 km
Periapsis – Apoapsis:	265,100 km – 267,500 km
Eccentricity:	0.0039
Inclination (Uranus):	0.128°
Sidereal orbit period:	4.14 d
Average orbital speed:	4.67 km/s
Mean diameter:	1,169.4 km
Mass:	about 0.0002 Earth masses ($1.17 \cdot 10^{21}$ kg)
Mean density:	1.39 g/cm ³
Sidereal rotation period:	4.14 days
Axis tilt:	0.0°
Surface gravity:	0.23 m/s ²
Escape velocity:	520 m/s
Surface temperature:	-188 °C until -198 °C (85 K–75 K)

Link: [https://en.wikipedia.org/wiki/Umbriel_\(moon\)](https://en.wikipedia.org/wiki/Umbriel_(moon))