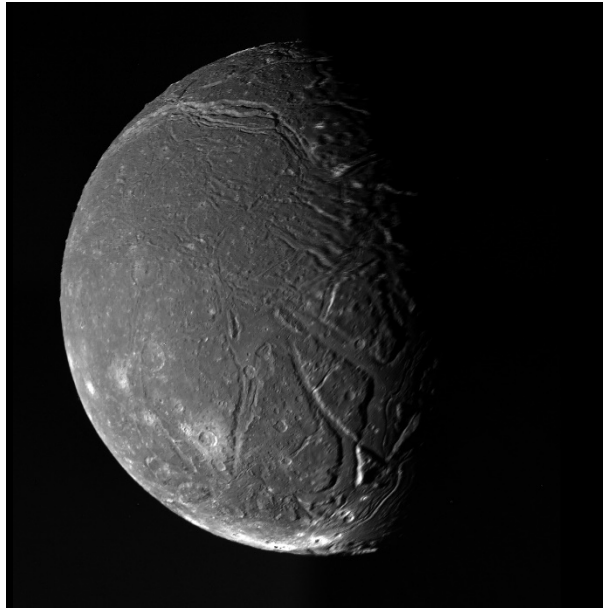


# Moon Ariel



Picture (Ariel):

Author: Kevin M. Gill

[https://en.wikipedia.org/wiki/Ariel\\_\(moon\)#/media/File:Ariel\\_in\\_monochrome.jpg](https://en.wikipedia.org/wiki/Ariel_(moon)#/media/File:Ariel_in_monochrome.jpg)

The moon was named after a nature spirit (sylph) from the verse epic "The Curl Robbery" by Alexander Pope. So it was not named after the air spirit from the play "The Tempest" by William Shakespeare, although almost all Uranus moons got their names after Shakespeare characters. Ariel has the greatest absolute brightness of all Uranus moons. It performs a bound rotation and makes a rolling motion (similar to Uranus around the Sun) as it passes around Uranus. Water ice and carbon dioxide have been detected on its surface so far. In its shape it deviates relatively strongly from the spherical shape.

## Important data of Ariel:

Semi-major axis:	190,900 km
Periapsis – Apoapsis	190,670 km – 191,130 km
Eccentricity:	0.0012
Inclination (Uranus):	0.041°
Sidereal orbit period:	2.52 d
Average orbit speed:	5.51 km/s
Mean diameter:	1,157.8 km (the 3 axis: 1,162.2×1,155.8×1,155.4 km)
Mass:	about 0.00023 Earth masses ( $1.35 \cdot 10^{21}$ kg)
Mean density:	1.66 g/cm <sup>3</sup>
Sidereal rotation period:	2.52 d
Axis tilt:	0°
Surface gravity:	0.27 m/s <sup>2</sup>
Escape velocity:	558 m/s
Surface temperature:	-189 °C until -213 °C (84 K - 60 K)

Link: [https://en.wikipedia.org/wiki/Ariel\\_\(moon\)](https://en.wikipedia.org/wiki/Ariel_(moon))