

## Destination: Titan (moon of Saturn, 2<sup>nd</sup> largest in our solar system)

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Destination Specifications	Details
<b>Distance from Earth:</b>	907.12-1037 million miles
<b>Length of a Day:</b>	15.9 Earth days
<b>Atmosphere:</b>	Titan's lower atmosphere is primarily composed of 94.2% <b>nitrogen</b> (N <sub>2</sub> ), 5.65% <b>methane</b> (CH <sub>4</sub> ), and 0.099% hydrogen (H <sub>2</sub> )
<b>Gravity:</b>	14% that of Earth
<b>Radiation conditions:</b>	Radiation; safe for long-term occupancy
<b>Temperature</b>	-290 °F
<b>Precipitation:</b>	Rain of methane (rare)
<b>Other Weather:</b>	Clouds
<b>Resources:</b>	<ul style="list-style-type: none"><li>• Liquid rivers, lakes and seas of methane (CH<sub>4</sub>) and ethane (C<sub>2</sub>H<sub>6</sub>)</li><li>• Frozen water, liquid water under the water ice</li><li>• Sand dunes</li><li>• Nitrogen (N<sub>2</sub>), methane (<b>CH<sub>4</sub></b>) and ammonia (NH<sub>3</sub>) (can be used to produce <u>fertilizer</u> for growing food)</li></ul>