



ID de Contribution: 49

Type: **Oral presentation**

Simulated methane clouds in the Titan troposphere with the TITAN PCM

jeudi 29 février 2024 12:30 (15 minutes)

On Titan, methane is at the origin of all characteristics of the climate and the prebiotic chemistry that take place there. Methane and minor gases from photochemistry, produce clouds and precipitation that sculpt the satellite's landscape. Despite the many observations made by Cassini and Huygens, we still have a limited understanding of the couplings between the different cycles taking place on Titan. We propose to use a new microphysical model of cloud, implemented in the Titan Planetary Climate Model to study the methane cycle, its sources, sinks and related processes including clouds and rains.

Astrophysics Field

Planetology (including small bodies and exoplanets)

Day constraints

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