

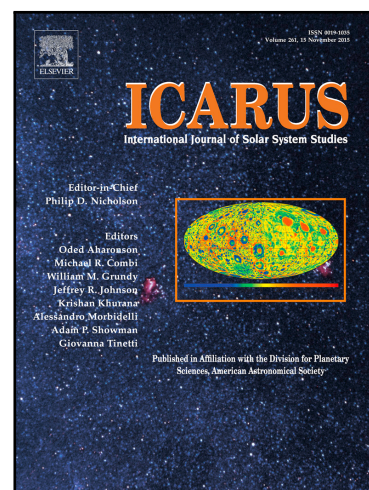
Accepted Manuscript

The Near-Surface Methane Humidity on Titan

Juan M. Lora, Máté Ádámkovics

PII: S0019-1035(16)30048-3
DOI: [10.1016/j.icarus.2016.10.012](https://doi.org/10.1016/j.icarus.2016.10.012)
Reference: YICAR 12228

To appear in: *Icarus*



Please cite this article as: Juan M. Lora, Máté Ádámkovics, The Near-Surface Methane Humidity on Titan, *Icarus* (2016), doi: [10.1016/j.icarus.2016.10.012](https://doi.org/10.1016/j.icarus.2016.10.012)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- We measured the meridional variation of tropospheric methane on Titan
- We interpret observations with a physically-based variation of methane profiles
- We compare results with GCM simulations to constrain the distribution of surface liquids
- Titan's lower troposphere is undersaturated in methane south of 60°N
- Our measurements are consistent with plentiful northern polar liquids, potentially more than in observed lakes

Download English Version:

<https://daneshyari.com/en/article/5487113>

Download Persian Version:

<https://daneshyari.com/article/5487113>

[Daneshyari.com](https://daneshyari.com)