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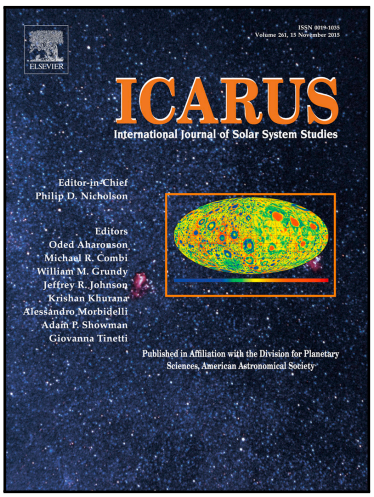

Theoretical time variability of mobile water on the Moon and its geographic pattern

Norbert Schorghofer , Paul Lucey , Jean-Pierre Williams

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Highlights

- Exosphere model reveals geographic and temporal pattern of H2O surface concentration.
- In the polar regions, these diurnal variations are much larger than at the equator.
- The absolute size of any diurnal variations is very small.
- An episodic source creates a dense exosphere with a half-life of a few Earth hours.

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