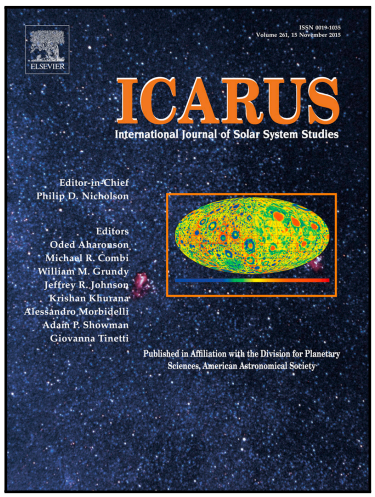

The role of impact bombardment history in lunar evolution

T. Rolf, M.-H. Zhu, K. Wünnemann, S.C. Werner

PII: S0019-1035(16)30366-9
DOI: 10.1016/j.icarus.2016.10.007
Reference: YICAR 12223

To appear in: *Icarus*

Please cite this article as: T. Rolf, M.-H. Zhu, K. Wünnemann, S.C. Werner, The role of impact bombardment history in lunar evolution, *Icarus* (2016), doi: 10.1016/j.icarus.2016.10.007

Highlights

- We present 3D evolution models of the Moon coupled to its early bombardment history.
- Thermal anomalies induced by impacts on the Moon decay within 100-200 Myrs.
- Ejecta deposits modify surface heat flux even on long timescales.
- Surface insulation may maintain bombardment-induced anomalies until present.
- Impact bombardment may alter lunar contraction history.