

# Accepted Manuscript

Generation, Ascent and Eruption of Magma on the Moon: New Insights Into Source Depths, Magma Supply, Intrusions and Effusive/Explosive Eruptions (Part 2: Predicted Emplacement Processes and Observations)

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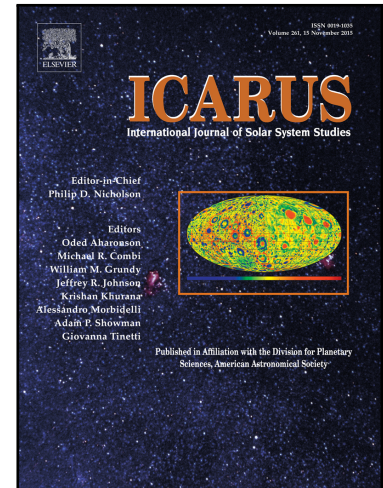
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## Highlights

- Mare basalt eruption process predictions are compared to observed features/deposits.
- Single dike event magma volume predicted to be  $10^2$ - $10^3$  km<sup>3</sup>; dikes 40-100 m by 60-100 km.
- Shallower-source dikes continuous from source to surface; deeper dikes detach from source.
- Dikes reaching surface form wide range of predicted/observed effusive/explosive eruption types.
- Intrusion is favored in thicker farside crust; extrusion is favored on thin nearside crust.

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