

Thursday, March 22, 2018
POSTER SESSION II: MARS CRATER MORPHOLOGY
6:00 p.m. Town Center Exhibit Area

[R639]

Harris J. K. Grindrod P. M. **POSTER LOCATION #639**
[*Global Martian Catalogue of Rayed Craters as Potential Sources for Martian Meteorites*](#) [#1435]

We present an updated catalogue of rayed-craters on Mars, as potential source locations for martian meteorites.

Hundal C. B. Watters W. A. Fassett C. I. Maciuch J. **POSTER LOCATION #640**
[*Characterizing the Modification Sequence of Simple Impact Craters on Mars*](#) [#2951]

We characterize the shape of the lower and upper cavity walls as a function of depth/diameter in three geologic settings using high-resolution DEMs.

Boyce J. M. Mouginis-Mark P. J. **POSTER LOCATION #641**
[*Post-Emplacement Deflation of Martian Layered Ejecta from Flow Body Thickness/Rampart Thickness Ratio: Concept Study and Preliminary Findings*](#) [#1116]

The ratio of thickness of ejecta layers to their terminal ramparts is a measure of ejecta's post-flow deflation. This ratio suggests Mars ejecta has deflated.

Dasgupta D. De K. Kundu A. Dasgupta N. **POSTER LOCATION #642**
[*A Study of Rampart Craters Identified from MCC and THEMIS Images, Inference on Icy Substrate During Impact*](#) [#2638]

Analysis of adjacent rampart craters identified using MCC and THEMIS to infer depth of subsurface icy layer in the area of study.

Tornabene L. L. Piatek J. L. Barlow N. G. Capitan R. **POSTER LOCATION #643**
 McEwen A. S. et al.
[*Recognition and Characterization of Continuous Deposits Observed Beyond Layered Ejecta Ramparts on Mars*](#) [#2431]

We report on continuous ejecta deposits that flow off of, and terminate well beyond, layered ejecta ramparts of several of the best-preserved craters on Mars.

Costard F. Rodriguez J. A. P. Séjourné A. Lagain A. Clifford S. et al. **POSTER LOCATION #644**
[*Formation of the Northern Plains Lomonosov Crater During a Tsunami Generating Marine Impact Crater Event*](#) [#1928]

We present the results of geomorphological and numerical studies to constrain the formation of the Lomonosov Crater as a potential marine impact crater on Mars.

Gemperline J. D. Hynek B. M. Robbins S. J. **POSTER LOCATION #645**
[*Testing Crater Degradation Predictions Under the Late Noachian Icy Highlands Model*](#) [#2622]

Craters in Noachian terrains display degradation states at different elevations contrary to predictions from the Late Noachian Icy Highlands Model.

Boatwright B. D. Head J. W. **POSTER LOCATION #646**
[*Evolution of Crater Depth-Diameter Power Laws as a Proxy for Degradation*](#) [#2630]

We demonstrate that the exponent of the crater depth-diameter power law can be used as a proxy for degradation on the surface of Mars.