

Tuesday, March 20, 2018

[T311]

**POSTER SESSION I: MARS DOWNSLOPE MASS MOVEMENT II:
RSLs, GULLIES, AND LANDSLIDES
6:00 p.m. Town Center Exhibit Area**

Huber C. Ojha L. Wray J. *POSTER LOCATION #124*
[Dry Versus Wet Conditions for RSL](#) [#1472]

We discuss strengths and weaknesses of the dry and wet origins for the Recurring Slope Lineae features observed on Mars.

Knightly J. P. Clarke J. D. A. Rupert S. *POSTER LOCATION #125*
[Melt Water Slope Streaks in Haughton Crater as Possible Mars Analog](#) [#2084]

Melt water slope streaks observed in Haughton Crater are studied for their potential applicability as analogs for recurring slope lineae on Mars.

Herny C. Conway S. J. Raack J. Carpy S. Colleu-Banse T. et al. *POSTER LOCATION #126*
[Experimental Investigation of Sand Transport Mechanisms by Boiling Liquid Water Under Mars-Like Conditions and Potential Implications for Martian Gullies and RSL](#) [#1860]

We conduct a series of experiments under low pressure to investigate the transport capacity of boiling liquid water under martian-like surface conditions.

Millot C. Quantin-Nataf C. Leyrat C. Lozac'h L. Millet F. *POSTER LOCATION #127*
[Thermal Properties of Recurring Slope Lineae \(RSL\) in Coprates Chasma](#) [#2030]

We focus on the numerical thermal modelisation at the surface and subsurface in order to constrain the nature of Recurring Slope Lineae on Mars.

Cantillo D. C. Hibbitts C. A. Viviano C. E. Stockstill-Cahill K. *POSTER LOCATION #128*
[Investigating the Formation of Mars Recurring Slope Lineae Through Laboratory Experiments](#) [#2261]

We have built, tested, and conducted experiments within a Mars environmental chamber simulating RSL formation under Mars pressure conditions.

Dundas C. M. *POSTER LOCATION #129*
[HiRISE Observations of New Martian Slope Streaks](#) [#2026]

HiRISE before-and-after images reveal information about dark slope streak formation.

Hamid S. H. Gulick V. C. *POSTER LOCATION #130*
[Geomorphological Analysis of Gullies Along Western Slopes of Palikir Crater](#) [#2644]

Presented is a morphologic and morphometric analysis of Palikir Crater to find possible origins for gullies along its western slopes.

Paladino T. P. Gulick V. G. Glines N. G. *POSTER LOCATION #131*
[Insights into the Formation of Gullies in Asimov Crater, Mars](#) [#2889]

Asimov Crater in the Noachis Terra region of Mars is home to a substantial amount of gullies. These gullies were found to be likely carved fluvially.

Luu K. Gulick V. C. Glines N. H. *POSTER LOCATION #132*
[Gully Formation on the Northwestern Slope of Palikir Crater, Mars](#) [#2650]

This study analyzed gully morphology on the NW slope of Palikir Crater, Mars using HiRISE DTMs to better understand the primary gully formation processes.

Conway S. J. Massé M. Carpy S. Colleu-Banse T. Patel M. R. *POSTER LOCATION #133*
[Grain Saltation Induced by Boiling on Mars — Experiments and Development of a Physical Model](#) [#1880]

Low atmospheric pressure and the potentially high surface temperatures cause water to boil on Mars. We explore the phenomenon of grain saltation via boiling.

Grigsby N. Diniega S.

POSTER LOCATION #134

[*Slope and Volume Analysis of Alcove-Channel-Apron Avalanche Morphologies Within the North Polar Region of Mars*](#) [#1122]

Channels have been identified within sand dune avalanches within the north polar region of Mars. Potential controls include dune slope and alcove volume.

Pietrek A. Hergarten S. Kenkmann T.

POSTER LOCATION #135

[*Comparing the Morphology of Longitudinal Striations on Martian Landslides and Ejecta Blankets*](#) [#1863]

Morphometric comparison of topographic tracks across longitudinal striations on martian ejecta blankets of DLE/SLE craters and martian long run-out landslides.