

Thursday, March 21, 2013
POSTER SESSION: MARS GLACIAL AND PERIGLACIAL
6:00 p.m. Town Center Exhibit Area

[R728]

Pathare A. Winebrenner D. Kountik M. Waddington E. *POSTER LOCATION #543*
[Glacial Flow Modeling of Martian Lobate Debris Aprons](#) [#2687]

We will utilize a glacial flow model incorporating slope-dependent sublimation to assess whether martian lobate debris aprons share a common global rheology.

Bondarenko N. V. Dulova I. A. Kornienko Yu. V. *POSTER LOCATION #544*
[Improved Photoclinometry Method: Topography of Large-Scale Polygons at the Phoenix Landing Site from a set of Images](#) [#2669]

Using the improved photoclinometry method we estimated that topographic amplitude of 50–90-m polygons in the vicinity of Phoenix landing site is 35–50 cm.

Beach M. J. Head J. W. *POSTER LOCATION #545*
[Constraints on the Timing of Obliquity Variations During the Amazonian from Dating of Glacial-Related Concentric Crater Fill Deposits on Mars](#) [#1161]

We test the obliquity history of Mars, using the distribution of ages of concentric crater fill deposits as a proxy for periods of ice migration.

Arfstrom J. D. *POSTER LOCATION #546*
[A Valley Glacier Remnant of the Main Trough of Kasei Valles, Mars](#) [#1002]

It appears that the head of the main trough of Kasei Valles contains the remnant of a valley glacier.

Kerrigan M. C. Osinski G. R. Van De Wiel M. *POSTER LOCATION #547*
[The Periglacial Landscape of Utopia Planitia; Geologic Evidence for Recent Climate Change on Mars](#) [#2651]

We map the periglacial landscape of Utopia Planitia and combine geologic evidence with climate model predictions to reconstruct recent climate change on Mars.

Ivanov M. A. Hiesinger H. Erkeling G. Reiss D. *POSTER LOCATION #548*
[Evidence for possible Hesperian Glaciation in Utopia Planitia on Mars](#) [#1127]

Ridges near contact of VBF in southern Utopia Planitia may represent eskers/moraines and suggest large-scale glaciation in this region during the late Hesperian.

Hobbs S. W. Paull D. J. Clarke J. D. A. *POSTER LOCATION #549*
[A Comparative Analysis of Semi-Arid and Periglacial Gullies — Implications for Mars](#) [#1095]

We analysed periglacial gullies in New Zealand and semi-arid gullies in South Australia and compared them to gullies in Noachis Terra, Mars.