

**Thursday, March 22, 2012**  
**POSTER SESSION II: MARS WATER: OTHER**  
**6:00 p.m. Town Center Exhibit Area**

Birnie C. Fueten F. Stesky R. Cheel R. Rossi A. P.

[\*Lithified Aeolian Bedforms as Evidence for Ancient Water Circulation in West Candor Chasma, Mars\*](#) [#1292]

In West Candor Chasma, corrugated, curvilinear features (CCF) that display evidence of brittle deformation also display many characteristics common to aeolian dunes, suggesting they originated as dunes but were lithified by ancient water circulation.

Baioni D. Sgavetti M. Wezel F. C.

[\*Karst Landforms in Northern Sinus Meridiani, Mars\*](#) [#1052]

The abstract shows the results of geomorphologic study in great detail of the northern part of Sinus Meridiani. Here karst-like landforms are observed. Based on the kind and degree, three morpho-units are identified.

Morgan G. A. Campbell B. A. Carter L. M. Plaut J. J.

[\*Mapping the Three Dimensional Stratigraphy of the Amazonian Geological Record of Mars as Preserved in Elysium Planitia\*](#) [#2605]

We have used SHARAD to map and characterize the range of Amazonian subsurface deposits preserved within Elysium Planitia. This has included identifying the relationships between outflow channel erosion, volcanic activity and aeolian deposition.

Erkeling G. Reiss D. Hiesinger H. Ivanov M. A. Bernhardt H.

[\*Relief Inversion at the Deuteronilus Contact of the Isidis Basin, Mars: Implications for the Formation of the Isidis Interior Plains\*](#) [#2016]

Valleys that occur on the Isidis exterior plains continue across the Deuteronilus contact and occur then as ridges. We propose a fluvio-glacial scenario for the formation of relief inversion at the Deuteronilus contact.

Golder K. B. Gilmore M. S.

[\*Evolution of Chaos Terrain in the Eridania Basin, Mars\*](#) [#2796]

We performed a geomorphological analysis of the Eridania Basin in order to better understand the history of water and chaos in the region and to constrain models for chaos formation.

Iijima Y. Goto K. Minoura K. Komatsu G. Imamura F.

[\*Exploring Sedimentological Evidence of an Ancient Ocean on Mars\*](#) [#1753]

Distribution of boulders on surface of Mars, which can be altered by impact-induced tsunamis, may become best candidates as the sedimentological feature of past existence of ancient ocean on Mars.

Salzman B. J. Gafinowitz S. Regnerus B.

[\*Phyllosilicates in Nili Fossae\*](#) [#1995]

This is an abstract about an area on Mars called Nili Fossae. It describes how we have found a way to locate phyllosilicates through geomorphology. Our analysis is based on the Jezero crater delta and geological features associated with it.