

Tuesday, March 20, 2018

[T316]

## POSTER SESSION I: AEOLIAN GEOLOGY I: THE ANSWER IS BLOWIN' IN THE WIND

6:00 p.m. Town Center Exhibit Area

Zimbelman J. R. Johnson M. B. O'Brien J. Ku Y. *POSTER LOCATION #181*  
[Wind Ripple Orientations at Forty Locations Distributed Around Mars](#) [#1429]

Wind ripple azimuths measured on HiRISE images at 40 sites, and initial statistics results, are reported. No regional or global pattern is apparent.

Telfer M. W. Radebaugh J. Cornford B. *POSTER LOCATION #182*  
[Curving Linear Dunes on Earth and Titan: Implications for Topography](#) [#2544]

Linear dunes so straight / But not in Oz or Titan / Dunes bend down the hills.

Northrup D. Radebaugh J. Christiansen E. H. Tass S. Kerber L. *POSTER LOCATION #183*  
[Yardang and Dune Classification on Titan Through Length, Width, and Sinuosity](#) [#2713]

Classifying yardangs and dunes on Titan's surface using measures of length, width, and spacing to perform a random forest analysis.

Lewis R. C. Radebaugh J. Christiansen E. H. Tass E. S. Le Gall A. *POSTER LOCATION #184*  
[A Comparative Analysis of Sediment Transport and Deposition Trends of the Namib Sand Sea and Belet on Titan](#) [#2831]

By comparing linear dune morphologies on Earth and Titan, we can better understand the processes and conditions that shape planetary surfaces.

Czaplinski E. C. Ahrens C. J. Horgan B. H. N. Chevrier V. F. *POSTER LOCATION #185*  
[Martian Dune Slipface Features Analyzed with TES and CRISM](#) [#1522]

Slipfaces on dunes / Could they be carved by liquids? / Minerals may tell.

Boyd A. S. Burr D. M. *POSTER LOCATION #186*  
[Investigating the Sources and Origins of Dark Sand in Aeolis Dorsa, Mars: Evidence for Local Dark Sediment Production](#) [#2734]

Mapped geospatial sand distribution, paleo-wind indicators, and local erosional pattern analyses suggest two apparent dark sand sources in Aeolis Dorsa, Mars.

Daubar I. J. Ojha L. Chojnacki M. Golombek M. P. Lorenz R. et al. *POSTER LOCATION #187*  
[Lifetime of a Dust Devil Track and Dust Deposition Rate in Gusev Crater](#) [#1730]

A new method uses changing albedo over time and spectral analysis to calculate dust devil track lifetimes, dust raised by DDs, and dust settling rates on Mars.

Kozdon J. T. Edwards C. S. Sylvain *POSTER LOCATION #188*  
[Determination of Potential Localized Martian Dust Sources and Sinks in Elysium Planitia](#) [#2514]

THEMIS thermal infrared data are used to quantify local temperature changes and modeled using KRC thermal models to calculate corresponding dust thicknesses.

Hoover R. H. Robbins S. J. Putzig N. E. Fenton L. K. Hayward R. et al. *POSTER LOCATION #189*  
[Examining Thermal Inertia of Layered Ejecta Craters and Southern Hemisphere Dunes on Mars](#) [#1811]

Using thermophysical analysis to characterize the near surface properties of layered ejecta craters and southern hemisphere dunes on Mars.

Nield E. V. Burr D. M. Neakrase L. D. V.

*POSTER LOCATION #190*

[Archiving Experimentally Derived Threshold Wind Speed Data in PDS4](#) [#2106]

We are creating an archive of old, new, and future threshold data from wind tunnel experiments and welcome additional contributions from the community.

Gullikson A. L. Hayward R. K. Titus T. N. Charles H.

*POSTER LOCATION #191*

Fenton L. K. et al.

[Mars Global Digital Dune Database: Composition, Thermal Inertia, and Stability](#) [#2304]

We are presenting a detailed compositional analysis, thermal inertia, and a dune stability assessment that will be added to the Mars Global Dune Database.