

Tuesday, May 16, 2017
SMALL BODIES — AEOLIAN PROCESSES AND BEDFORMS
ON PLANETARY BODIES WITH TRANSIENT ATMOSPHERES
1:00 p.m. Zion Room

Chairs: Philippe Claudin
Matt Telfer

- 1:00 p.m. Tirsch D. * Otto K. A. Mottola S. Hviid S. Jaumann R. Jorda L. Kührt E.
 Matz K.-D. Preusker F.
[*What's New on the Wind Tails on 67P/Churyumov-Gerasimenkow?*](#) [#3011]
 We search and classify wind tails associated with boulders on the comet 67P/Churyumov-Gerasimenkow and deduce the source region of the air-fall particles from the shape and direction of the bedforms.
- 1:20 p.m. Jia P. Andreotti B. Claudin P. *
[*Giant Ripples on Comet 67P Sculpted by Thermal Wind*](#) [#3010]
 Recent photos of comet 67P have revealed astonishing dune-like patterns. How can vapor outgassing produce a flow along the surface dense enough to transport grains? We explain the emergence and size of these bedforms, which are due to thermal winds.
- 1:40 p.m. Kreslavsky M. A. *
[*Gas of Dust Particles: A Possible Mechanism of Aeolian Features Formation on Kilometer-Size Bodies*](#) [#3047]
 Thermal motion of micron-size dust particles on kilometer-size bodies forms a dust “atmosphere” potentially capable of producing aeolian bedforms. This might explain ripples and other aeolian features on 67P/Churyumov-Gerasimenko.
- 2:00 p.m. Telfer M. W. * Parteli E. J. R. Radebaugh J.
[*Evidence Supporting Aeolian Depositional Origin of Landforms of Sputnik Planum, Pluto, from New Horizons Imagery*](#) [#3061]
 We describe dunes on Pluto, and suggest they result from availability of granular solids and local wind regime at the margin of an icecap and mountain range.
- 2:20 p.m. PANEL DISCUSSION
- 2:40 p.m. Break