

Thursday, March 23, 2017

[R555]

WATER ON MARS II

3:15 p.m. Waterway Ballroom 5

Chairs: Timothy Goudge
Alexander Morgan

- 3:15 p.m. Jacobsen R. E. * Burr D. M.
[*New Paradigm for Empirical Relationships in Martian Paleohydraulics: Insights from Analyses of a Terrestrial Analog Channel*](#) [#1285]
We present empirical relationships validated by analyses of a terrestrial analog channel and yield more accurate paleodischarges and paleochannel dimensions.
- 3:30 p.m. Hayden A. T. * Lamb M. P. Fischer W. W. Ewing R. C. McElroy B. J.
[*Formation of Inverted Fluvial Deposits on Earth and Mars*](#) [#2488]
Sinuous ridges in Utah are river deposits; similar inverted channels on Mars would require much lower river discharge and longer duration than earlier reports.
- 3:45 p.m. Keske A. L. * Christensen P. R.
[*Maja Valles: A Multi-Source Fluvio-Volcanic Outflow Channel System*](#) [#2985]
Maja Valles is shown to have a history including both volcanic and fluvial processes, each originating from a separate source location.
- 4:00 p.m. Costard F. M. * Séjourné A. Kelfoun K. Clifford S. Lavigne F. et al.
[*Modelling Investigation of Tsunamis on Mars*](#) [#1171]
Comparative approach between geomorphological characteristics of tsunami deposits in Arabia Terra and predictions of terrestrial models of tsunami propagation.
- 4:15 p.m. Wilson J. T. * Eke V. R. Massey R. J. Elphic R. C. Feldman W. C. et al.
[*Equatorial Locations of Water on Mars: Improved Resolution Maps Based on Mars Odyssey Neutron Spectrometer Data*](#) [#2615]
Parts of the Medusae Fossae Formation are revealed to contain up to 40 wt. % water equivalent hydrogen via reconstruction of the Mars Odyssey neutron data.
- 4:30 p.m. Mège D. * Bourgeois O. Gurgurewicz J.
[*Origin of the Northern Valles Marineris Troughs: Tectonics and Subglacial Erosion*](#) [#1110]
New observations help understand how to form the “ancestral basins” of Valles Marineris!