

Thursday, March 24, 2016

[R622]

POSTER SESSION II: EFFUSIVE AND EXPLOSIVE VOLCANISM

6:00 p.m. Town Center Exhibit Area

Li B. Ling Z. C. Xu W. J. Wu Z. C. Zhang J. et al. *POSTER LOCATION #311*
[The Fractal Dimension of Rima Sharp](#) [#1921]

In this paper, we studied the fractal dimension of lunar rille (Rima Sharp) using the successive shift divider (SSD) method with nodes =25, 50, and 100.

Cataldo V. Williams D. A. *POSTER LOCATION #312*
[Exploring Meander Development in Planetary Sinuous Rilles](#) [#1612]

We combine a model of supraglacial meander generation to a model of thermal erosion by turbulently flowing lava to simulate planetary sinuous rilles formation.

Shmelkina I. Gregg T. K. P. *POSTER LOCATION #313*
[Morphometric Analysis of Valley Networks and Channels on Venus](#) [#2814]

We present preliminary results of a quantitative morphometric analysis of Venesian channels as a prelude for comparison with channels on other planetary bodies.

Golder K. B. Burr D. M. *POSTER LOCATION #314*
[Implications for Late Amazonian Magma Migration Derived from New Crater-Count Age Estimates of the Cerberus Channel Flood Lavas, Mars](#) [#1543]

The westward migration of magma from the Olympus Mons/Tharsis region is inferred from new age estimates of the Cerberus channel flood lavas.

Maue A. D. Thomson B. J. Withers P. G. *POSTER LOCATION #315*
[A Quantitative Approach to Venus Shield Field Stratigraphy](#) [#2805]

We use a MATLAB GUI to determine the alignment of vents within clusters of shield volcanoes on Venus as an indicator of local stratigraphy.

Green J. E. Gregg T. K. P. Sakimoto S. E. H. *POSTER LOCATION #316*
[Distribution of Small \(<25 km\) Volcanoes in Martian Northern Plains](#) [#2399]

Classification and distribution of small (<25 km) volcanoes observed in the martian northern plains using high-resolution MOLA and CTX data.

Gallinger C. G. Ghent R. R. *POSTER LOCATION #317*
[A Pyroclastic Origin for Cones in Isidis Planitia: 2. Estimation of Runout Lengths and Preliminary Thermal Calculations](#) [#2767]

We model a large pyroclastic flow to determine if the runout length and heat content of the resulting deposit can provide an origin for thumbprint terrain.

Jozwiak L. M. Head J. W. Wilson L. *POSTER LOCATION #318*
[Pyroclastic Eruptions on Mercury: Insights into Eruption Mechanisms from Vent Morphology](#) [#1178]

We assess the range of morphologies associated with mercurian pyroclastic vents, and suggest formation by dike-degassing throughout the history of Mercury.

Thatte D. Greenbaum A. McGruder C. Stansberry J. Sivaramakrishnan A. *POSTER LOCATION #319*
[JWST NIRISS Simulations and Analysis of Vulcanism on Io](#) [#3005]

We present simulated JWST observations of volcanic eruptions on Jupiter's innermost moon Io using Aperture Masking Interferometry (AMI) mode of JWST NIRISS.

Veeder G. J. Davies A. G. Matson D. L. Johnson T. V. *POSTER LOCATION #320*
[Infrared Thermal Emission Lightcurve for Hot Spots on Io](#) [#1361]

We synthesize an infrared lightcurve of the volcanic thermal emission expected from 242 hot spots for remote disk integrated observations of Io.