

**Thursday, March 22, 2018**  
**POSTER SESSION II: MARS FUTURE EXPLORATION AND LANDING SITES**  
**6:00 p.m. Town Center Exhibit Area**

[R626]

Gross C. Orgel C. Poulet F. Carter J. Horgan B. et al. **POSTER LOCATION #415**  
[ExoMars 2020 — High Priority Science Targets Within the Mawrth Vallis Candidate Landing Site](#) [#1405]

We illustrate the remarkable diversity of mineralogy and morphology in the proposed landing site region and demonstrate what could be expected at these sites.

Bridges J. C. Parkes Bowen A. Fawdon P. Balme M. Vago J. et al. **POSTER LOCATION #416**  
[ExoMars 2020 Landing Site Selection and Characterisation](#) [#2177]

Oxia Planum and Mawrth Vallis remain as the final candidate sites for ExoMars 2020; we give an update on site selection and characterisation.

Golombek M. P. Grant J. A. Farley K. A. Williford K. H. Otero R. E. et al. **POSTER LOCATION #417**  
[Final Three Landing Sites for the Mars 2020 Rover](#) [#2130]

The downselection to three remaining landing sites: Jezero Crater, NE Syrtis, and Columbia Hills under consideration for the Mars 2020 Rover mission is described.

Ferguson R. L. Hare T. M. Mayer D. P. Galuzska D. M. Golombek M. P. et al. **POSTER LOCATION #418**  
[Mars 2020 Landing Site Evaluation: Digital Terrain Model Procedure and Capability Development](#) [#1611]

We are improving our DTM generation capabilities for the Mars 2020 mission to produce flight-quality products for use on-board the spacecraft in support of TRN.

Morgan G. A. Carter L. M. Putzig N. E. **POSTER LOCATION #419**  
[Radar Investigations of the Mars 2020 Rover Landing Sites](#) [#1404]

We will present our analysis of the eight original M2020 Rover landing sites using Earth-based and orbital radar data.

Emran A. Marzen L. J. King D. T. Jr. **POSTER LOCATION #420**  
[Thermophysical Characterization of Jezero Crater and NE Syrtis, Mars](#) [#1874]

The thermal inertia of 155–529 tiu and albedo of 0.10–0.24 imply a variety of surface materials with a very weak positive correlation between the variables.

Bramble M. S. Mustard J. F. Fassett C. I. Goudge T. A. **POSTER LOCATION #421**  
[Stratigraphy of the Northeast Syrtis Major Mars 2020 Landing Site and the Ejecta of Jezero Crater, Mars](#) [#1705]

We survey the NE Syrtis Mars 2020 landing site for remnants of ejecta from Jezero Crater. We focus on the basement topography and the Large Linear Features.

Cofield S. M. Stack K. M. **POSTER LOCATION #422**  
[Geologic Mapping and Stratigraphic Analysis of a Candidate Mars 2020 Landing Site: Jezero Crater, Mars](#) [#2563]

1:5,000 geologic orbital mapping of the complete Jezero Crater landing ellipse, a candidate landing site for Mars 2020.

Sun V. Z. Stack K. M. **POSTER LOCATION #423**  
[Geomorphic Mapping of the Basement Unit Within the Northeast Syrtis Mars 2020 Landing Ellipse](#) [#2179]

The basement unit within the NE Syrtis Mars 2020 landing ellipse contains distinct subunits that may correlate with the distribution of Fe/Mg and Al clays.

Weiss B. P. Scheller E. Gallegos Z. Ehlmann B. L. Lanza N. et al. **POSTER LOCATION #424**  
[Megabreccia at Northeast Syrtis Major and Its Importance for Mars Science](#) [#1385]

We describe megabreccia around the potential Mars 2020 landing sites and its significance for understanding Noachian climate, tectonics, magmatism, and the dynamo.

Pan L. Quantin C.

**POSTER LOCATION #425**

[Regional Geological Context of the InSight Landing Site from Mineralogy and Stratigraphy](#) [#1918]

Large impact reveals phyllosilicate-bearing, layered unit beneath kilometers of lava flows in the subsurface of InSight landing site.

Williams N. R. Golombek M. P. Daubar I. J. Huertas A.

Trautman M. R. et al.

**POSTER LOCATION #426**

[Rock Distributions Around Fresh Impact Craters at the InSight Landing Site in Elysium Planitia, Mars](#) [#2819]

A blast from the past / Rocky ejecta craters / Slowly fade away.

Pajola M. Teodoro L. F. A. Wilson J. T. Eke V. R. Massey R. J.

**POSTER LOCATION #427**

[Quantifying the Water Equivalent Hydrogen on Past, Present, and Future Mars Landing Sites](#) [#1465]

The water equivalent hydrogen values of the past, present, and future (ExoMars and Mars 2020 rovers) Mars landing sites are presented.