

Accepted Manuscript

The Geological History of Northeast Syrtis Major, Mars

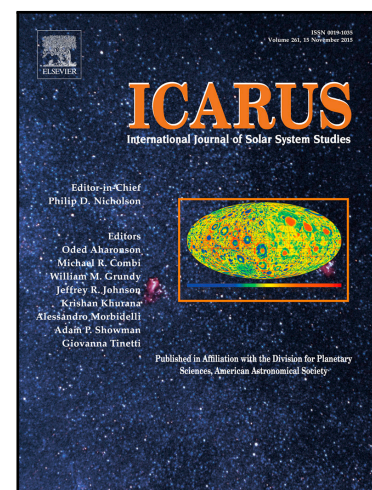
Michael S. Bramble , John F. Mustard , Mark R. Salvatore

PII: S0019-1035(16)30349-9
DOI: [10.1016/j.icarus.2017.03.030](https://doi.org/10.1016/j.icarus.2017.03.030)
Reference: YICAR 12424

To appear in: *Icarus*

Received date: 2 July 2016
Revised date: 28 March 2017
Accepted date: 30 March 2017

Please cite this article as: Michael S. Bramble , John F. Mustard , Mark R. Salvatore , The Geological History of Northeast Syrtis Major, Mars, *Icarus* (2017), doi: [10.1016/j.icarus.2017.03.030](https://doi.org/10.1016/j.icarus.2017.03.030)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- We use HiRISE observations to characterize and map geomorphic units at Northeast Syrtis Major, Mars.
- Mineralogy and physical properties of the geomorphic units are characterized with CRISM and THEMIS.
- Stratigraphy unifiable with 5 geomorphic units despite heterogeneity at decameter scale.
- We identify intriguing large linear features and circular landforms of the olivine-rich unit.
- Synthesizing mapping results with the literature, a detailed geological history is constructed.

Download English Version:

<https://daneshyari.com/en/article/5486998>

Download Persian Version:

<https://daneshyari.com/article/5486998>

[Daneshyari.com](https://daneshyari.com)