

Accepted Manuscript

Compositional and structural constraints on the geologic history of eastern Tharsis Rise, Mars

C.E. Viviano-Beck , S.L. Murchie , A.W. Beck , J.M. Dohm

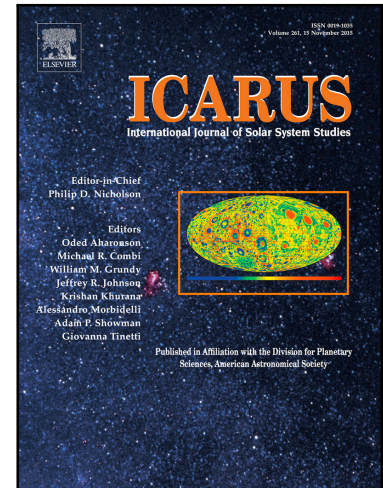
PII: S0019-1035(16)30567-X
DOI: [10.1016/j.icarus.2016.09.005](https://doi.org/10.1016/j.icarus.2016.09.005)
Reference: YICAR 12180

To appear in: *Icarus*

Received date: 21 September 2015
Revised date: 4 August 2016
Accepted date: 3 September 2016

Please cite this article as: C.E. Viviano-Beck , S.L. Murchie , A.W. Beck , J.M. Dohm , Compositional and structural constraints on the geologic history of eastern Tharsis Rise, Mars, *Icarus* (2016), doi: [10.1016/j.icarus.2016.09.005](https://doi.org/10.1016/j.icarus.2016.09.005)

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

- CRISM mapping reveals Pre-/Early-Noachian alteration is discontinuous in the crust
- Higher temperature alteration assemblages occur in Eastern Coprates Chasma
- Assemblage constrains lateral offset of Valles Marineris to less than ~25-50 km
- Evidence for thrust faulting in western Coprates Chasma with compositional mapping
- Diverse Noachian primary mineralogy (LCP dominates, +/- plagioclase and olivine)

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5487126>

Download Persian Version:

<https://daneshyari.com/article/5487126>

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