

Tuesday, March 18, 2003  
POSTER SESSION I  
7:00 p.m. Fitness Center

**Mars: Geologic Mapping**

Skinner J. A. Jr. Tanaka K. L.

*How Should Planetary Map Units be Defined?* [#2100]

A geologic mapping approach that classifies materials into either rock-stratigraphic or allostratigraphic units may facilitate more meaningful stratigraphic divisions and improve the objectivity of geologic maps.

Frey H. V. Frey E. L. Hartmann W. K. Tanaka K. L. T.

*Evidence for Buried "Pre-Noachian" Crust Pre-Dating the Oldest Observed Surface Units on Mars* [#1848]

MOLA data provide strong evidence for a "pre-Noachian" crust under the oldest surface units on Mars. A common total (visible + buried) crater retention age for several Noachian units may indicate crater saturation or the age of original crust.

Kolb E. J. Tanaka K. L. Skinner J. A.

*A New Mapping Approach for Highland Materials in the South Polar Region of Mars* [#2105]

In this abstract we discuss and present results of applying a new mapping approach to the highland plains materials of Mars.

Mest S. C. Crown D. A.

*Geology of Crater Millochau, Terra Tyrrhena Region of Mars* [#1942]

The floor of crater Millochau (Terra Tyrrhena, Mars) displays geologic terrains that appear to have formed by a complex sequence of infilling to form layered deposits, their collapse and erosion, and subsequent modification by eolian processes.

Raitala J. Basilevsky A. T.

*Geotraverse Through the Terra Arabia Area of Low Epithermal Neutron Flux* [#1147]

Analysis of MOC images over low epithermal neutron flux anomaly of Terra Arabia reveals that it differs noticeably from its neighborhood neither in amount of fluvial channels and layered deposits, nor in thickness and apparent surface mantle texture.

Presley M. A. Ruff S. W.

*Nature and Origin of Sedimentary Materials in Western Arabia* [#2110]

We propose that the materials composing Western Arabia are the same as in the deposits within crater basins. This infers that a more regional process than individual crater lakes must have been active.