

Geowissenschaftliches Kolloquium

Aqueous Alteration on Mars at Mawrth Vallis - What, When and How

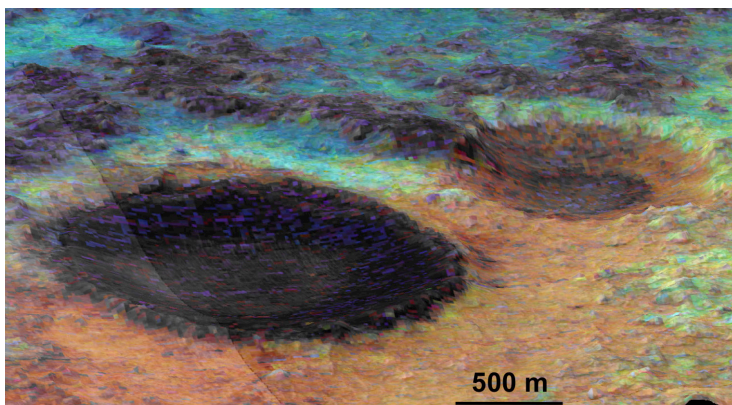
Mineralogy on Mars with CRISM-based infrared spectroscopy

Donnerstag, 13. November 2014 - 16.15 Uhr

Janice Bishop

(SETI Institute, Mountain View, California und Freie Universität Berlin)

The presentation will encompass CRISM analyses of a phyllosilicate-rich region on Mars and studies of Mars analog sites and lab samples used for understanding and interpreting the spectra from Mars.



Dr. Janice Bishop is a chemist and planetary scientist who explores the planet Mars using spectroscopy. Her investigations of CRISM data of Mars are revealing clays and sulfates in the ancient rocks that provide information about the geochemical environment at that time. Dr. Bishop studies the spectral fingerprints of minerals and rocks in the lab in order to generate a spectral library for identification of these in the Martian data. Her research also involves collecting and studying Mars analog rocks and soils at a variety of locations including volcanic islands, cold deserts, hydrothermal regions, acidic aqueous sites, and meteorites which are the only Martian samples available on Earth to date.



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