

Tuesday, March 13, 2007
POSTER SESSION I: MARS RECONNAISSANCE ORBITER:
VIEWING MARS THROUGH MULTICOLORED GLASSES
6:30 p.m. Fitness Center

Seelos F. P. Murchie S. L. Pelkey S. M. Seelos K. D. CRISM Team
CRISM Multispectral Survey Campaign — Status and Initial Mosaics [#2336]
 MRO CRISM multispectral survey campaign: data acquisition strategy, current status, and initial mosaic products.

Pelkey S. M. Mustard J. F. Murchie S. Poulet F. Bibring J.-P. Bishop J. Izenberg N. Seelos F. Ehlmann B. L. Roach L. H. Milliken R. E. CRISM Science Team
CRISM Observations of Hydrated Craters Deposits in Terra Tyrrhena, Mars [#1994]
 Focusing on high-spatial resolution mineralogy data from CRISM, we investigate hydrated, phyllosilicate-rich crater deposits in the ancient martian terrain of Terra Tyrrhena.

Ehlmann B. L. Mustard J. F. Pelkey S. M. Roach L. H. Poulet F. Bibring J. -P.
 Murchie S. L. CRISM Science Team
New Phyllosilicate Mineral Signatures from West of Nili Fossae, Mars Through Combined OMEGA-CRISM Analysis [#2078]
 CRISM targeted OMEGA-detected phyllosilicates in ejecta west of Nili Fossae and found three phyllosilicate spectral types and spatial heterogeneity over <250 m, implying small-scale variation in conditions or primary materials at the time of formation.

Milliken R. E. Grotzinger J. Murchie S. Grant J. A. CRISM Team
Evidence for Hydrated Phyllosilicates in Holden Crater, Mars Using Hyperspectral CRISM Data [#1913]
 CRISM data of Holden Crater reveal the presence of hydrated phyllosilicates in a distinct unit that has an intermediate albedo, is fractured, and may be lacustrine in origin. Spectral analysis and implications for MSL landing sites will be presented.

Bishop J. L. Murchie S. L. Brown A. J. Pelkey S. M. Roach L. A. Mustard J. F.
 Bibring J.-P. CRISM Team
Sulfates in Juventae Chasma as Seen by CRISM [#2252]
 We are investigating the presence and character of sulfate minerals observed in Juventae Chasma using hyperspectral VNIR CRISM images. We hope to contribute toward understanding the composition and genesis of this region.

Roach L. H. Mustard J. F. Murchie S. Weitz C. M. Ehlmann B. L. Pelkey S. Seelos F. P.
 Seelos K. Bibring J.-P. CRISM Team
Sulfate Identification in East Candor, Valles Marineris with CRISM Visible-Infrared Spectra [#2106]
 Joint CRISM-HiRISE analysis of kieserite and polyhydrated sulfates within light-toned deposits in East Candor reveal alternating occurrences. Interpretations include interbedding of mono- and polyhydrated sulfates or post-exposure phase change.

Murchie S. Bibring J.-P. Bishop J. Humm D. Milliken R. Mustard J. Pelkey S. Roach L. Seelos F. Seelos K. CRISM Science Team
First CRISM Observations of Layered Material in Western Candor Chasma [#1476]
 The first CRISM images of layered material in western Candor Chasma reveal significant spectral diversity within the deposits. Monohydrated sulfate is concentrated in relatively low albedo layers.

Murchie S. Bishop J. Humm D. Morris R. Pelkey S. Seelos F. Seelos K. CRISM Science Team
Characteristics of the Mars Pathfinder Landing Site from CRISM Hyperspectral Imaging [#1478]
 Preliminary analysis of CRISM imaging of the Mars Pathfinder landing site is consistent with previously reported results from landed imaging. Big Crater may have penetrated northern plains material to expose buried basaltic highlands.

Wiseman S. M. Arvidson R. E. Griffes J. L. Murchie S. Poulet F. CRISM Science Team

Initial Analyses of CRISM Data over Meridiani Planum [#1945]

CRISM data from Meridiani Planum, including the MER Opportunity rover traverse and portions of a 120 km long, NW-SE trending valley to the north of the landing site that shows evidence for hydrated sulfate minerals in MEX OMEGA coverage, are analyzed.

Green R. O. Murchie S. Brown A. Humm D.

Measurement and Modeling of Water Ice Spectral Signatures Observed by the MRO CRISM Imaging Spectrometer at 20 Meter Scale Spatial Sampling [#2159]

Examines the measured spectral signature of water ice in the north polar region of Mars by the CRISM instrument on MRO. Applies radiative transfer based inversion to derive water ice grain size and dust properties.