2nd CRISM Data Users Workshop
18 March 2012
The Woodlands, Houston, TX

Co-hosted by
The CRISM team
The PDS Geosciences Node

Welcome to the Workshop!

- In 2009 at the 1st Data Users Workshop we explained:
  - The CRISM data set
  - How to find data of interest
  - How to use it to analyze Martian surface features

- All of the materials are online:
  - At the CRISM web site:
    - 2009 Workshop: http://crism.jhuapl.edu/CRISM_workshop_2009/
    - 2012 Workshop: http://crism.jhuapl.edu/CRISM_workshop_2012/
  - At the PDS: http://pds-geosciences.wustl.edu/workshops

- Today we will provide an update on:
  - Changes over the last 3 years in how CRISM is being operated
  - Updated calibration with reduced noise
  - A new product for targeted observations, to be released this year, including:
    - The best current correction for atmospheric gases
    - First-order normalization of atmospheric opacity to the nearest-nadir geometry
    - Correction of residual artifacts
    - Map projection
    - Corrected I/F, summary product, and geometric backplane image cubes

- **[1:00] An refresher on CRISM data and tools / what's new**
  - Summary of the instrument, update on the investigation, reminder of how the data are processed, and what tools are available (Scott Murchie)
- **[1:30] Updates to radiometric calibration (from 'TRR2' to 'TRR3')**
  - Correction of artifacts in the calibration to radiance (David Humm)
  - Application of noise-reduction filtering (Frank Seelos)
- **[2:10] Break**
- **[2:20] Map-Projected Targeted Reduced Data Records (MTRDRs)**:
  - Processing of the spectral data (Frank Seelos)
  - Generation of summary products (Frank Seelos)
  - Thematic "browse" products (Scott Murchie)
- **[3:45] Break**
- **[3:55] How to work with MTRDRs in ENVI:**
  - Basic operations and visualization (Debra Buczkowski)
  - Analyses using built-in ENVI capabilities (Debra Buczkowski)
  - Custom visualization (Debra Buczkowski)