Safaeinili A.

*Can MARSIS Measure the Low-Altitude Components of the Mars Magnetic Field?* [#3068]

Measuring the magnetic field anomaly of Mars at low altitudes (e.g., 100–200 km) can be an interesting application of Mars Advance Radar for Subsurface and Ionospheric Sounder (MARSIS). This may be possible by taking advantage of the Faraday rotation in the MARSIS signal.

Martin P. D.

*The ESA Mars Express Mission: Spectral and Compositional Investigations* [#3085]

Among the main scientific goals of the Mars Express mission, surface investigations using high-resolution imaging and mineralogical detection and mapping will play an essential role in the study of the martian surface composition and evolution.


HRSC Target Selection Team

*Target Selection and Image Planning for the High Resolution Stereo Camera (HRSC) on the ESA Mars Express Mission — and a Target Database for Mars Exploration* [#3086]

We describe the organization of a target list for the HRSC camera experiment on Mars Express (containing >1500 individual targets), the parameters specified for each target, and how the list will be used in operations planning.

Hoekzema N. M.  Gwinner K.

*Optical Depth Retrievals from HRSC Stereo Images* [#3153]

The HRSC camera of the Mars Express orbiter will map Mars in stereo. Software has been developed to retrieve optical depths of the martian atmosphere from these stereo images. We present examples of retrievals from airborne HRSC images of the Alps.