

PRESSURE MEASUREMENTS FROM 2.0 μm CO₂ BAND BY REMOTE SENSING : REANALYSIS OF Phobos/ISM AND PREPARATION OF Mars Express/Omega observations

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A new radiative transfer model of the 2.0 μm vibration band of CO₂ has been constructed with the following objectives:

- reanalyze the Phobos/ISM data, with new MGS altimetry measurements of the Mars surface. Original analysis (Rosenqvist et al, PSS, 1992) were limited by the altimetry knowledge, and in fact gave interesting constraints on the Martian altimetry. The present knowledge of altimetry allows us to use the data for accurate pressure measurements, to search for possible pressure waves in the Martian atmosphere (Gendrin et al., LPI abstract, 2002)
- prepare the radiative transfer modeling to be used for atmospheric studies with Mars Express/Omega observations.

The results of calculations compared to ISM measurements will be presented, as well as the observations which are envisaged with Omega.