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Modeling of dust properties during a local dust storm on Atlantis Chaos, Mars

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In this work we report on the observation of a local dust storm in the Atlantis Chaos region on Mars, observed by both the spectrometers on board of ESA Mars Express mission, OMEGA and PFS. The observation was done on March 2nd, 2005 at 11.00 LT and $L_s = 168^\circ$ (end of southern winter). We used dust optical constant from previous work and we propose modification to them for deriving dust properties and fitting the observed OMEGA spectra. PFS data are used to derive the vertical structure of the dusty atmosphere.