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Indirect approach to global atmospheric variations over Mars surface.

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The Mars Odyssey GRS observations gathered over more than one Martian year allow to consider atmospheric thickness variations as a function of season and location on Mars. It is known that gamma-ray intensities are reduced during propagation through Martian atmosphere. This attenuation can be estimated and checked against the predictions of standard Martian global circulation models (GCM). Details of these calculations are presented and findings are discussed for various regions of Mars.