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Comparison of O3 columns from a 3D Mars GCM with SPICAM observations

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The latest version of the Global Mars Multiscale Model (GM3) has an online chemistry module describing hydrogen and oxygen compounds and their interactions with dynamics, meteorology and the diurnal and seasonal cycles. The model also has an extensive description of the Mars water cycle including cloud formation, polar ice deposition and regolith interaction. Results of simulations over a full Martian year will be compared to SPICAM retrievals of total ozone columns (see N. Mateshvili et al, EPSC 2008). Deviations in the comparison will be discussed in terms of both model and retrieval limitations.