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Extensive stratospheric evaluation of the chemical transport model Oslo CTM2 against measurements

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The Oslo CTM2 is a chemical transport model with comprehensive chemistry for both the troposphere and the stratosphere, and it has previously been evaluated in 40-layer mode (Søvde et al, 2008). Here we present an extensive evaluation of the modeled ozone in the stratosphere and UTLS region by applying 60-layer meteorological data, extending from the surface to 0.1hPa. The horizontal resolution is 2.8x2.8 degrees.

The measurements applied are ozone sondes and lidar profiles from selected locations, and satellite measurements from MIPAS and MLS, and all evaluations are carried out profile by profile. Modeled profiles are generated at the closest hour to the measurements, and the spatial location is interpolated linearly from the closest grid boxes. Statistical properties are discussed.