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Mean Age of Air in the KASIMA model using ERA-Interim analyses

T. Reddmann, R. Ruhnke, and W. Kouker

Karlsruhe Institute of Technology, Institute for Meteorology und Climate Research, Karlsruhe, Germany
(thomas.reddmann@kit.edu, 0049 721 6082 4742)

Results of model simulations of long-term tracer transport in the middle atmosphere using ERA-Interim analyses are presented using the 3D model KASIMA. Several artificial tracers have been implemented in the model simulating trace gases as SF_6, CO_2, N_2O and H_2O commonly used to derive transport properties in the middle atmosphere from observations. We test several configurations of the model where the relaxation to the analyses have been varied and compare the results to observations. We find a general good agreement of mean age of air as derived from long lived tracers running the model without any relaxation. Possible long-term changes of transport characteristics found in the model are discussed.