



Surface Ozone over California: The Influence of Pollution Inflow

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We present results from a study that quantifies the impacts of pollution inflow on surface ozone. The focus of the analysis is on the California region and on summer 2008, when the ARCTAS-CARB aircraft campaign, a joint program between NASA and the California Air Resources Board, took place. The study integrates the global chemistry transport model MOZART-V4 with the regional WRF-Chem model. Both models employ the same chemistry scheme and emissions allowing for a high level of synergy across model scales. The global model provides time and space varying boundary conditions for the regional simulations. Aircraft measurements from the field campaign will be used together with in-situ observations from ground (U.S. EPA Air Quality Monitoring System) as well as satellite retrievals (e.g. Aura/OMI NO₂ and HCHO, Aura/TES CO and O₃, Terra/MOPITT CO, IASI CO) for evaluating the model simulations and supporting the analysis.