

Impact of Mexico City on Regional Air Quality

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To understand the impacts of Mexico City and other megacities on regional air quality, simulations from the global chemical transport model MOZART-4 have been performed for the MILAGRO experiment period. The model results have been evaluated with observations made from aircraft, the surface and satellites during MILAGRO. The CO emissions from different types of sources (biomass burning, vehicle emissions, industry, etc.) are “tagged” in the model to quantify their relative contribution to the regional atmospheric composition. In addition, NO emissions are tagged to identify the contribution of ozone from a given source. The contribution from Mexico City pollution to the regional and global atmosphere will be compared to other megacities.