



Measurements of Gases and Aerosols during 2010Cal-Mex

J. Zheng (1), R. Zhang (1), and L. Molina (2)

(1) Texas A&M University, Atmospheric Sciences, College Station, United States (zhang@ariel.met.tamu.edu), (2) Molina Center (MCE2)

The major goal of the collaborative Cal-Mex 2010 research project is to assess the sources and processing of emissions along the California-Mexico border region and their effects on regional air quality and climate in order to provide scientific information to decision makers of both nations when addressing these two inter-related issues. During the Cal-Mex 2010 field study, the TAMU teams have collected extensive data sets from Tijuana/San Diego border, including volatile organic compounds (VOCs), gaseous sulfuric acid (H₂SO₄) and a suite set of physical and chemical parameters of aerosols. This comprehensive data set requires additional effort to process and analyze the measurements of gases and aerosols during Cal-Mex 2010. In this talk, preliminary data analysis of gases and aerosols will be presented, including VOCs and particle mixing states, morphology, and effective densities.