

Southern New Mexico Ozone Study (SNMOS)

June 24, 2016

Announcement of Project Status Report Call

Wednesday | June 29, 2016 | 9:30 AM MDT

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Call materials posted at: [Southern New Mexico Ozone Study \(SNMOS\)](#)

Background

Doña Ana County in Southern New Mexico experiences the highest observed ozone concentrations in the state. Two monitors in Doña Ana County have preliminary 2013-2015 Design Values that exceed 70 ppb, the October 2015 National Ambient Air Quality Standard (NAAQS) for ozone. The Southern New Mexico Ozone Study (SNMOS) is performing photochemical grid model (PGM) modeling for the year 2011 using the Comprehensive Air Quality Model with Extensions (CAMx) version 6.20. The study is leveraging the Western Air Quality Study (WAQS) 2011 PGM modeling platform that is available from the Intermountain West Data Warehouse (IWDW¹). The SNMOS expanded the WAQS CAMx 2011 modeling platform through addition of a 4 km domain covering Doña Ana County and vicinity, conducting WRF meteorological and SMOKE emissions modeling, and performing a CAMx 2011 base case simulation and model performance evaluation. SNMOS also conducted a CAMx simulation using 2025 emissions estimates. The projected 2025 ozone Design Values for all monitors in Doña Ana County were below the 70 ppb ozone NAAQS. Details and deliverables from the SNMOS completed tasks are available on the project website².

The State of New Mexico Air Quality Bureau and the WRAP technical team will be providing a status report and results to date on the SNMOS progress. We will review completed tasks and preview the remaining tasks:

• Completed

- **Task 1:** 2011 WRF 36/12/4 km with 4 km focus on Dona Ana/El Paso/Juarez and Work Plan (11/30/15)
- **Task 2:** 2011 update Permian Basin O&G (11/30/15)
- **Task 3:** 2011 update of Juarez and nearby Mexico EI, 2020 Mexico emissions update (11/30/15)
- **Task 4:** SMOKE current 2011 NEI for 4 km domain (2/29/16)
- **Task 5:** Gridded 2011 biogenic, fires, wind-blown dust, lightning emissions for 4 km domain (2/29/16)
- **Task 6:** Develop 2011 4 km CAMx database and perform base case (2/29/16)
- **Task 7:** 2011 MPE and sensitivity modeling for Dona Ana County (4/30/16)
- **Task 8:** SMOKE current FY US EI and FY Mexico emissions update (4/30/16)
- **Task 9:** FY 12/4-km CAMx simulation (5/31/16)
- **Task 10:** FY ozone projections (MATS) (5/31/16)

• Pending

- **Task 11:** FY emissions sensitivity/controls (August)
- **Task 12:** FY 4 km source apportionment run (Sept.)
- **Task 13:** Air Quality Technical Support Document (AQTSD) (November)

¹ <http://views.cira.colostate.edu/tsdw/>

² <http://www.wrapair2.org/SNMOS.aspx>