



Modeling Air Quality from the Global to Local Scale

May 11-15, 2015

NCAR Center Green, Boulder, Colorado

Workshop Objectives:

Understanding the different contributions of local, regional, and global sources to air quality problems is becoming increasingly important for air quality modelers and managers. Recognizing this challenge, the [Western Regional Air Partnership](#) (WRAP), the [U.S. EPA](#), the [National Center for Atmospheric Research](#) (NCAR), and the LRTAP Convention's [Task Force on Hemispheric Transport of Air Pollution \(TF HTAP\)](#) are organizing two coordinated workshops which will address current challenges in air quality modeling across the global to local spectrum:

- **HTAP2 Global and Regional Model Evaluation Workshop, 11-13 May**

The Monday (May 11) and Tuesday (May 12) sessions will focus on reviewing the global and regional modeling results from the HTAP2 multi-model experiments (see www.htap.org). These experiments have been organized by TF HTAP to improve our understanding of the influence of global and intercontinental transport of air pollutants across the Northern Hemisphere on local and regional air quality. The 2008-2010 base simulations for these experiments will be compared to various types of observations from around the world, including but not limited to intensive observations in the Western United States.

The Wednesday (May 13) sessions will bring the HTAP2 workshop discussions to serve as the foundation for the Western U.S. modeling discussions focused on the regional to local scales. This shared session will provide air quality analysts and planners from the West a chance to discuss the implications of the initial HTAP2 findings with the researchers performing the simulations and analysis. The HTAP2 participants will have an opportunity to better understand the issues of interest to state and local air quality modelers and managers, helping to refine their ongoing analyses of the HTAP2 experiment results.

- **2015 Western Air Quality Modeling Workshop, 13-15 May**

Beginning on Wednesday (May 13) and continuing into Thursday and Friday (May 14 and 15), the meeting will focus on air quality modeling to address specific issues in the Western United States, including ozone (O₃), particulate matter (PM), regional haze and visibility, and atmospheric deposition. The goal of this workshop is to identify and address air quality management needs specific to air regulatory agencies in the Western U.S. to provide a credible air quality modeling platform for multiple, "one-atmosphere" analytical uses including planning efforts related to attainment of National Ambient Air Quality Standards, reasonable progress analysis for visibility improvement under the Regional Haze Rule, air quality analyses to assess impacts from energy development under the National Environmental Policy Act, atmospheric deposition studies, Prevention of Significant Deterioration, and Exceptional Events demonstrations. Topics may include non-U.S. anthropogenic air quality impacts; wintertime elevated O₃; wintertime elevated PM_{2.5}; emission inventories for critical sectors, such as oil & gas exploration, fires, residential fuel combustion, and mobile sources; and spring and summer season ozone. This meeting builds upon the WRAP-EPA [2011](#) and [2013](#) Western Modeling Workshops and the 2012 WESTAR [Western Ozone Transport Conference](#). These meetings were attended by technical air quality planning and modeling staff from Western state and local agencies, tribal representatives, U.S. Environmental Protection Agency, federal land managers, consultants, industry, and researchers from NOAA, NASA, NCAR, and academic institutions.

Advance registration is required by May 1, 2015 and logistical information is available at (www.htap.org). For those who will not be able to attend in-person, registered individuals will be able to participate remotely via web conferencing. For more information, please contact Terry Keating (TF HTAP, keating.terry@epa.gov) or Tom Moore (WRAP, tmoores@westar.org). Hotel room block information will be available on the WRAP calendar item at: http://www.wrapair2.org/calendar/viewitem.jsp?&cal_item_id=6101.