

Journal Articles

Pasch A.N., MacDonald C.P., Gilliam R.C., Knoderer C.A., and Roberts P.T. (2011) Meteorological characteristics associated with PM_{2.5} air pollution in Cleveland, Ohio, during the 2009-2010 Cleveland Multiple Air Pollutants Study. *Atmos. Environ.* **45**, 7026-7035 (STI-909032-3910). doi: 10.1016/j.atmosenv.2011.09.065. Available on the Internet at <http://www.sciencedirect.com/science/article/pii/S1352231011010284>.

Hanna S.R., MacDonald C.P., Lilly M., Knoderer C.A., and Huang C.H. (2006) Analysis of three years of boundary layer observations over the Gulf of Mexico and its shores. *Estuarine, Coastal and Shelf Science* **70**, 541-550.

Meeting Presentations and Conference Proceedings

MacDonald C.P., Pasch A.N., Gilliam R., Knoderer C.A., Roberts P.T., and Norris G. (2011) Use of a radar wind profiler and sodar to characterize PM_{2.5} air pollution in Cleveland, Ohio. Presented at the *National Air Quality Conferences, San Diego, California, March 7-10* by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-4070).

Alrick D.M., Knoderer C., and MacDonald C. (2010) MOS accuracy in Sacramento air pollution forecasting. Presentation made to the Sacramento Metropolitan Air Quality Management District by Sonoma Technology, Inc., Petaluma, CA, STI 909004-3826, March.

Sullivan D., Chan A., Knoderer C., Raffuse S., Wheeler N., and Craig K. (2008) Emergency smoke response systems: air quality forecasts and monitoring during the 2008 California wildfires. Presented at the *Pacific Coast Fire Conference, San Diego, CA, December 3* by Sonoma Technology, Inc., Petaluma, CA; USFS AirFire Team, Seattle, WA; Desert Research Institute, Reno, NV; and USFS Region 5, CA (STI-3515).

Miller D.S. and Knoderer C.A. (2008) 2008 ozone forecasting and outreach end-of-season report. Presentation made to the Air Districts of the Sacramento Region and Air Pollution Control Officers, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906064.01-3527, December.

Knoderer C.A., MacDonald C.P., Zahn P.H., and Gilroy M. (2008) Remote sensing meteorological instrumentation to support photochemical assessment monitoring stations (PAMS). Presented at the *Air & Waste Management Association Symposium on Air Quality Measurement Methods and Technology, Chapel Hill, NC, November* by Sonoma Technology, Petaluma, CA (STI-3416).

MacDonald C.P., Knoderer C.A., Bratek S.A., and Miller D.S. (2008) Sacramento Winter PM_{2.5} Forecasting Evaluation. Presented to *Sacramento Metropolitan Air Quality Management District, Sacramento, CA, September 29* by Sonoma Technology, Inc. (STI-906064.04-3449).

MacDonald C.P., Knoderer C.A., and Bratek S.A. (2008) TexAQS-II radar wind profiler analyses. Presented to the *Texas Commission on Environmental Quality, Austin, TX, March 26* by Sonoma Technology, Petaluma, CA (STI-907101-3333).

Knoderer C.A., MacDonald C.P., and Zahn P.H. (2007) The relationship among air quality, mixing layer heights, and winds observed during the TexAQS-II field study - preliminary results. Poster presented at the *Fall 2007 American Geophysical Union Conference, San Francisco, CA, December 14*, by Sonoma Technology, Inc., Petaluma, CA (STI-3220).

MacDonald C.P., Dye T.S., and Knoderer C.A. (2007) Using radar wind profilers for air quality applications. Presentation prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-3248, October 18.

- MacDonald C.P. and Knoderer C.A. (2007) Wind profiler applications: air quality forecasting, analysis, and modeling. Presentation for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-906060-3146, March 14.
- Knoderer C.A. (2007) LAPLoad software. Presentation for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-906060.01-3135, March 13.
- MacDonald C.P., Knoderer C.A., Dye T.S., and Chan A.C. (2005) Vaisala wind profiler software, data validation, and data analysis training. Training manual prepared for Vaisala, Inc., Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-905058-2865, December.
- MacDonald C.P., Miller D.S., Chan A.C., Knoderer C.A., Nolan S., Jackson S., Bridgers G.M., Schranz S., Seybold M., Woodman M., Ryan W.F., Shipp E., and Ferreria S. (2005) Short course on air quality forecasting. Presented at *The 2005 National Air Quality Conference: Quality of Air Means Quality of Life, San Francisco, CA, February 13* (STI-902476-2697).
- Knoderer C.A., MacDonald C.P., Lilly M.R., Hanna S., and Huang C. (2004) Comparison of EDAS predictions and RWP data collected over the Western and Central Gulf of Mexico. Presented at *The Seventh International Marine Environmental Modeling Seminar, Special Session: Modeling Coastal Meteorology, Washington, DC, October 19-21* (STI-2629).
- MacDonald C.P., Lilly M.R., Knoderer C.A., Hanna S., and Huang C. (2004) Application of the COARE algorithm in the Western and Central Gulf of Mexico. Presented at *The Seventh International Marine Environmental Modeling Seminar, Special Session: Modeling Coastal Meteorology, Washington, DC, October 19-21* (STI-2630).
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- MacDonald C.P., Roberts P.T., Knoderer C.A., Miller D.S., Lilly M.R., and Hanna S.R. (2003) Boundary layer study in the Western and Central Gulf of Mexico. Presentation at the final meeting of the Technical Review Group, Minerals Management Group, New Orleans, LA, STI-998555-2265, October.
- Knoderer C.A., Lilly M.R., MacDonald C.P., and Dye T.S. (2003) Comparisons of radar wind profiler and EDAS winds in the Gulf of Mexico. Poster presented at *ISTP 2003: 6th International Symposium on Tropospheric Profiling: Needs and Technologies, Leipzig, Germany, September 14-20* (STI-2362, conference poster 9.7).
- Brown S.G., Knoderer C.A., and Hafner H.R. (2003) Meteorological effects on air toxics concentrations in Detroit. Presented at the *National Workshop on Air Toxics Monitoring, Chicago, IL, May 13-14*.
- Knoderer C.A. and Dye T.S. (2003) Data collection and validation. Presented at the *American Meteorological Society Short Course on the Fundamentals of Boundary Layer Wind and Temperature Profiling Using Radar and Acoustic Techniques, Long Beach, CA, February 8* (STI-2276).
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Roberts P.T., Brown S.G., Main H.H., Buhr M.P., Hyslop N.P., MacDonald C.P., Roney J., Knoderer C.A., and Miller D. (2002) Preliminary VOC, olefin, and conceptual model results for Houston. Presented to Texas Natural Resource Conservation Commission, Austin, TX, April 4.

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Formal Reports

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- Ray A.E. and Knoderer C.A. (2010) 2010 quality assurance calibration and maintenance of meteorological instruments at Caltrans District 6 sites: Children's Blvd., San Joaquin River, Fresno River, Ash Slough, and Panoche Rd. Final report prepared for Caltrans Traffic Operations, San Bernardino, CA, by Sonoma Technology, Petaluma, CA, STI-909039-3918-FR, July 20.
- Knoderer C.A., MacDonald C.P., and Roberts P.T. (2010) Data collected by a 9150MHz RWP, RASS, mini-sodar, and surface meteorological station in Cleveland Ohio July 24, 2009–March 15, 2010. Final report prepared for Alion Science and Technology, Durham, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-909032-3885-FR2, June 30.
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- Sonoma Technology, Inc. (2009) Standard operating procedures for operating a radar wind profiler, mini-sodar, and meteorological tower, version 1.1. STI-909032-3652, June.
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