

## Journal Articles

- Scheffe R., Philbrick R., MacDonald C.P., Dye T.S., Gilroy M., and Carlton A. (2009) Observational needs for four-dimensional air quality characterization. *Air & Waste Manag. Assoc.'s EM*, October 2.
- Zhao C., Andrews A.E., Bianco L., Eluszkiewicz J., Hirsch A., MacDonald C., Nehr Korn T., and Fischer M.L. (2009) Atmospheric inverse estimates of methane emissions from Central California. *J. Geophys. Res.* **114**, D16302, doi:16310.11029/12008JD011671.
- Pasch A.N., Boyer D., MacDonald C.P., and Knoderer C.A. (2008) Assessment of the usefulness of radar wind profiler data for meteorological model predictions in eastern Texas. *J. Geophys. Res.* (submitted).
- MacDonald C.P., McCarthy M.C., Dye T.S., Wheeler N.J.M., Hafner H.R., and Roberts P.T. (2006) Transport and dispersion during wintertime particulate matter episodes in the San Joaquin Valley, California. *J. Air & Waste Manag. Assoc.* **56**, 961-976 (STI-902329-2660).
- MacDonald C.P., Roberts P.T., Main H.H., Dye T.S., Coe D.L., and Yarbrough J. (2001) The 1996 Paso del Norte Ozone Study: phenomena that influence the local ozone concentrations. *Sci. Total Environ.* (Special Issue: U.S.-Mexico Transboundary Air Pollution Studies) **276**, Nos. 1-3, 93-110 (STI-1949).
- 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.
- Reissell A., MacDonald C., Roberts P., and Arey J. (2003) Characterization of biogenic volatile organic compounds and meteorology at Azusa during the SCOS97-NARSTO. *Atmos. Environ.* **37** (Supplement 2), 181-196.

## Meeting Presentations and Conference Proceedings

- Dye T.S., MacDonald C.P., Craig K.J., and Alrick D.M. (2010) Adjusting numerical model data in real time: AQMOS. Presented at the *American Meteorological Society Annual Meeting, 12th Conference on Atmospheric Chemistry, Atlanta, GA, January 21*, by Sonoma Technology, Inc., Petaluma, CA (STI-3667).
- MacDonald C.P., Shell N.M., and Alrick D.M. (2010) 2009 Ozone forecasting and outreach end-of-season report. Presentaton made to the Air Districts of the Sacramento Region Air Pollution Control Officers Meeting, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909004-3793, January.
- Miller D.S., MacDonald C.P., Pasch A.N., and Zahn P.H. (2009) Fundamentals of air quality forecasting: PM<sub>2.5</sub> focus. Presented at the *National Air Quality Conference Forecaster's Training, Dallas, TX, March 2*, by Sonoma Technology, Inc., Petaluma, CA (STI-905501-3580).
- MacDonald C.P. and Roberts P.T. (2009) Meteorological and wave measurements for improving meteorological and air quality modeling (GM-08-04), project kick-off meeting. Presented to the *U.S. Minerals Management Service and Scientific Review Board* by Sonoma Technology, Inc., Petaluma, CA, STI-908059-3540, January.
- 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).
- Miller D.S., MacDonald C.P., and Bratek S.A. (2008) Imperial valley ozone forecasting end of 2008 season report. Presented to the *Imperial County Air Pollution Control District and California Air Resources Board, Sacramento, CA, October 30* by Sonoma Technology, Petaluma, CA (STI-907061-3483).

- MacDonald C.P. (2008) Wind profiler applications: air quality analysis, forecasting, and modeling. Presented for *Vaisala Training, Beijing, China, October 27, 2008* by Sonoma Technology, Petaluma, CA (STI-907503.03-3469).
- MacDonald C.P., Knoderer C.A., Bratek S.A., and Miller D.S. (2008) Sacramento Winter PM<sub>2.5</sub> Forecasting Evaluation. Presented to *Sacramento Metropolitan Air Quality Management District, Sacramento, CA, September 29* by Sonoma Technology, Inc. (STI-906064.04-3449).
- Zahn P.H. and MacDonald C.P. (2008) AIRNow Mapper: EPA's new air quality mapping system. Presented at the *National Air Quality Conferences, Portland, OR, April 7* (STI-905413.02-3299).
- 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).
- Miller D.S. and MacDonald C.P. (2008) 2007-2008 PM<sub>2.5</sub> forecasting end of season report. Presented to the *Sacramento Metropolitan Air Quality Management District, Sacramento, CA, March 14* by Sonoma Technology, Petaluma, CA (STI-906064-3330).
- Zahn P.H. and MacDonald C.P. (2008) Demonstration of Data Fusion Methods for AQI Maps. Presented to the *U.S. Environmental Protection Agency* by Sonoma Technology, Inc., Petaluma, CA (STI-905413-3435).
- 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. (2007) Using radar wind profiler and radio acoustic sounding systems data for air quality applications. Presentation prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-3235, September 27.
- MacDonald C.P., Dye T.S., and Chan A.C. (2007) Continuous vs. filter measurements of PM<sub>2.5</sub> in Columbus, Ohio. Presentation prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-905025.03-3192, July.
- Dye T.S. and MacDonald C.P. (2007) Air quality community's meteorological data needs. Presentation to the Committee on Developing Mesoscale Meteorological Observational Capabilities to Meet Multiple National Needs, Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-3102, July.
- MacDonald C.P., Bratek S.A., Chan A.C., and Dye T.S. (2007) Analysis to improve Louisiana forecasts. Presentation prepared for LA Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-907015-3178, June.
- Chan A.C., MacDonald C.P., Wang J.J., Fu J.Q., Lin C., and Dye T.S. (2007) Air quality forecasting and technical exchange and support for the Shanghai Environmental Protection Bureau. Poster presented at the *10th International Conference on Atmospheric Sciences and Applications to Air Quality, Hong Kong, China, May 14-16*, by Sonoma Technology, Inc., Petaluma, CA, and the Shanghai Environmental Monitoring Center (STI-3101).
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- Dye T., MacDonald C., and Chan A. (2006) Air quality forecasting and measurements. Presentation prepared for China Meteorological Agency, The People's Republic of China, by Sonoma Technology, Inc., Petaluma, CA, STI-906015-2934, April.
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- Miller D.S., MacDonald C.P., Lengyel C.E., and Nguyen D.T. (2005) Albuquerque PM<sub>2.5</sub> forecasting tool development training manual. Presentation to the City of Albuquerque, Air Quality Division, Albuquerque, NM, March 17 (STI-904740-2708).
- 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).
- Miller D.S., MacDonald C.P., and Dye T.S. (2004) Using aerosol optical depth products as forecasting tools. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902472-2624, October.
- MacDonald C.P., Lilly M.R., and Dye T.S. (2004) Boundary layer characteristics and transport analysis. Presented at *Vaisala Wind Profiler Workshop, Boulder, CO, October 14-15* by Sonoma Technology, Inc., Petaluma, CA (STI-904012-2626).
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- MacDonald C.P. and Lilly M.R. (2003) Making better use of RWP/RASS data. Conference presentation prepared for and presented at *Radar Development and Applications Workshop, NCAR (National Center for Atmospheric Research), Boulder, CO, April 23-25* (STI-2353).
- Miller D.S., MacDonald C.P., and Dye T.S. (2003) Ozone forecasting tool development to support forecasting for the EPA AIRNow program. *Fifth Conference on Atmospheric Chemistry: Gases, Aerosols, and Clouds (American Meteorological Society Annual Meeting)*, Long Beach, CA, February 11 (STI-90120x-2323).
- MacDonald C.P., Dye T.S., and Lilly M.R. (2003) Profiler observations, applications, and analysis: techniques that use Profiler/RASS data to characterize meteorological phenomena for use in air quality data analysis and forecasting. 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 9-13 (STI-2320).

- Dye T.S., MacDonald C.P., Cassmassi J.C., Gilroy M.J., Ryan W.F., and Weinstock L. (2003) Short course on air quality forecasting workbook. Prepared for U.S. EPA Office of Air Quality Planning and Standards, Research Triangle Park, NC; presented at *U.S. Environmental Protection Agency's 2003 National Air Quality Conference, San Antonio, TX, February 2* (STI-902464-2319).
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- MacDonald C.P., Dye T.S., and Roberts P.T. (2001) Quality control of the radar profiler wind and RASS virtual temperature data collected during the 1997 Southern California Ozone Study. Presented at *SCOS97-NARSTO Data Analysis Conference, Los Angeles, CA, February 13-15* (STI-2058).
- MacDonald C.P., Dye T.S., and Roberts P.T. (2001) Spatial and temporal observations of the planetary boundary layer during ozone episodes in Southern California. Presented at *SCOS97-NARSTO Data Analysis Conference, Los Angeles, CA, February 13-15* (STI-2057).
- Dye T.S., MacDonald C.P., and Narayanan M. (2000) Development of the Air Quality Early Warning System for Cairo, Egypt. Egyptian Environmental Affairs Agency, Cairo, Egypt, September (STI-900442-2002).
- MacDonald C.P., Roberts P.T., Main H.H., Dye T.S., Coe D.L., and Yarbrough J. (1999) The 1996 and 1997 Paso del Norte Ozone Studies: An overview of the field studies and data analyses. Paper no. 99-199 presented at the *Air & Waste Management Association 92nd Annual Meeting & Exhibition, St. Louis, MO, June 20-24* (STI 1863).

## **Formal Reports**

- Knoderer C., MacDonald C., and Pasch A. (2010) Summary of data quality control of data collected by a 915-MHz RWP, RASS, miniSodar, and surface meteorological station in Cleveland, Ohio. Technical memorandum prepared for Alion Science and Technology, Durham, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-909032-3741-TM-Revised, January.
- Reid S.B., Huang S., Pollard E.K., Craig K.J., Sullivan D.C., Zahn P., MacDonald C., and Raffuse S.M. (2009) An almanac for understanding smoke persistence during the 2008 fire season. Final report prepared for the U.S. Department of Agriculture, Forest Service, Pacific Southwest Region, STI-908045-3747-FR, November.
- MacDonald C.P., Craig K.J., Pasch A.N., Pollard E.K., Wheeler N.J.M., and Reid S.B. (2009) Contributors to Sacramento County wood smoke primary PM<sub>2.5</sub>. Final report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909014.06-3676-FR2, September.

- Funk T.H., Penfold B.M., Pasch A.N., MacDonald C.P., and Stone J.M. (2009) Ambient air quality monitoring network assessment for the San Joaquin Valley. Final report prepared for the San Joaquin Valley Unified Air Pollution Control District by Sonoma Technology, Inc., Petaluma, CA, STI-908072.04-3643-FR, July.
- MacDonald C.P., Craig K.J., DeWinter J.L., Pasch A.N., Brown S.G., and Wheeler N.J.M. (2009) Evaluation of Sacramento Metropolitan Air Quality Management District's Check Before You Burn Program. Final report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909014.06-3612-FR2, August.
- Miller D.S. and MacDonald C.P. (2009) Summary of 2008-2009 Sacramento County "Check Before You Burn" Season. Presentation made to the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909004.05-3618, May.
- MacDonald C.P. (2009) Evaluation of Sacramento's Check Before You Burn program: phase 1. Presentation made to the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909014.07-3607, April.
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- Charrier J.G., Hafner H.R., Wade K.S., Brown S.G., and MacDonald C.P. (2009) California ambient dioxin air monitoring program 2002 to 2006 data analysis of dioxins, furans, biphenyls, and diphenylethers. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-907024.05-3292-FR, February.
- Miller D.S., MacDonald C.P., and Bratek S.A. (2009) Regression tool development documentation. Technical memorandum prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906064.10-3553, January.
- Miller D.S., MacDonald C.P., Bratek S.A., Bowman C., and Gilroy M. (2008) PM<sub>2.5</sub> wood smoke forecasting. Training manual prepared for Air Quality Forecasters Training Meeting, Lacey, WA, by Sonoma Technology, Inc., Petaluma, CA; Washington State Department of Ecology, Olympia, WA; and Puget Sound Clean Air Agency, Seattle, WA, STI-905511.03-3523, December 18-19.
- Charrier J.G., Hafner H.R., Wade K.S., Brown S.G., and MacDonald C.P. (2008) California ambient dioxin air monitoring program data analysis. Draft final report 3 prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-907024.05-3292-DFR3, May.
- MacDonald C.P. and Knoderer C.A. (2008) Spatial and temporal characteristics of winds and mixing during TEXAQS-II. Final report prepared for Texas A&M University, College Station, TX by Sonoma Technology, Petaluma, CA, STI-907101-3344-FR, April.
- Blumenthal D.L., MacDonald C.P., and Knoderer C.A. (2007) Turbulence felt in a light helicopter caused by a power plant thermal plume. Final report prepared for Downey Brand LLP, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, 907059-3269-FR, December.
- MacDonald C.P., Miller D.S., and Dye T.S. (2007) Wintertime PM<sub>2.5</sub> forecasting for No-burn Rule 421. Presented to the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-907040-3223, September.

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- Knoderer C.A. and MacDonald C.P. (2007) Summary of data collected by a 915-MHz RWP, RASS, mini-sodar, and surface meteorological station at Boulder, Wyoming, from February 1 through March 31, 2007. Technical memorandum prepared for ENVIRON International, Inc., Novato, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-907002.04-3183-TM, June.
- Brown S., Hafner H., MacDonald C., Wade K., and Miller D. (2006) Preliminary analysis of the contribution of wood smoke to PM<sub>2.5</sub> concentrations in Sacramento, California. Technical memorandum prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906029-3118-TM, December.
- MacDonald C.P., Knoderer C.A., and Blumenthal D.L. (2006) Development and implementation of offshore meteorological systems to support TexAQS-II. Final report prepared for the Texas Commission on Environmental Quality, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-905060-2993-FR, June.
- MacDonald C.P., Nguyen D.T., Dye T.S., Barnett A.N., Knoderer C.A., Roberts P.T., Baxter R.A., and Weber B.L. (2002) Processing and validation of data collected by radar wind profilers, radio acoustic sounding systems, and sodars during the 1997 Southern California Ozone Study. Final report prepared for California Air Resources Board, Sacramento, CA and South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, Parsons Corporation, Pasadena, CA, and National Oceanic and Atmospheric Administration, Environmental Technology Laboratory, Boulder, CO, STI-99752A/B-2151-FR, May.
- MacDonald C.P., Miller D.S., and Raffuse S.M. (2006) Regional and local contributions to peak local ozone concentrations in six western cities. Final report prepared for the Western States Air Resources Council, Seattle, WA, by Sonoma Technology, Inc., Petaluma, CA, STI-906004-2970-FR, May.
- MacDonald C.P., Knoderer C.A., Nguyen D.T., and Dye T.S. (2005) PAMS meteorological demonstration analysis, software, and training. Final report prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-904044-2759-FR2, October.
- Sullivan D.C., Hafner H.R., Brown S.G., MacDonald C.P., Raffuse S.M., Penfold B.M., and Roberts P.T. (2005) Analyses of the causes of haze for the Central States (Phase II) Summary of findings. Executive summary prepared for the Central States Regional Air Planning Association by Sonoma Technology, Inc., Petaluma, CA, STI-904780.08-2754-ES, August.
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- MacDonald C.P., Kwiatkowski J.J., and Dye T.S. (2000) PAMS data analysis for southern California. Volume II: meteorological data analysis for Los Angeles and Ontario (March 1996 through February 1997). Report prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997524-1871-DFR2, March.