

## 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.
- 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).
- Shearer K.B., Dye T.S., Arno J., and Kobza L. (2005) AirAlert—air quality notification service for the public. *Air & Waste Manag. Assoc.'s EM*, September 19-24.
- Wayland R.A. and Dye T.S. (2005) AIRNow: America's resource for real-time and forecasted air quality information. *Air & Waste Manag. Assoc.'s EM*, September 25-30.
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## Meeting Presentations and Conference Proceedings

- White J.E., Dickerson P.G., Jackson S.A., Dye T.S., Chan A.C., Alrick D.M., and Shell N.M. (2010) AIRNow -- collection of air quality data for real-time public reporting and forecasting. Presented at *EPA-China Workshop, Beijing, China, May 17-18* (STI-3857).
- MacDonald C.P. and Dye T.S. (2010) CRADA activities Winter 2010. Presented to Vaisala, *Boulder, CO, April 21* (STI-3853).
- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. (2010) Evaluating the use of many low-cost sensors for monitoring NO<sub>2</sub> gradients. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3836).
- MacDonald C.P., Miller D.S., Dye T.S., Craig K.J., and Alrick D.M. (2010) Adjusting numerical model data in real time: AQMOS. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3805).

- 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).
- Chan A., Dye T.S., Pasch A.N., White J.E., Dickerson P.G., and Jackson S.A. (2009) AIRNow data transfer standards. Presented at the *National Ambient Air Monitoring Conference, Nashville, TN, November 2-5*, by Sonoma Technology, Inc., Petaluma, CA (STI-620000-3712).
- Chan A., Dye T.S., Cook J., Procter T., White J.E., Dickerson P.G., and Jackson S.A. (2009) Mobile monitoring and AIRNow-Tech during the 2008 northern California wildfires. Presented at the *National Ambient Air Monitoring Conference, Nashville, TN, November 2-5*, by Sonoma Technology, Inc., Petaluma, CA (STI-620000-3680).
- Chan A.C., Dye T.S., White J.E., and Jackson S.A. (2009) AIRNow and outreach resources. Presentation made to the California Air Pollution Control Officers Association, Small/Rural Section Meeting, Sonoma, CA, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC, STI-905501-3698, September.
- Miller D.S., Dye T.S., and Craig K.J. (2009) Bias-correcting NOAA model data in real time: AQMOS. Presented at the NOAA focus group meeting, Washington, D.C. by Sonoma Technology, Inc., Petaluma, CA, September (STI-3699).
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- Dye T.S., Chan A., Bratek S.A., White J.E., and Jackson S.A. (2008) Role of AIRNow during air emergency response. Presentation made to the California Air Reponse Planning Alliance Summit, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC, STI-905501.05-3462, October.
- Ludewig S.A. and Dye, T.S. (2008) Baja California air quality website administrator documentation and user guide. Presented to *EPA Region 9 and Baja California Air Quality Management District, Baja California, Mexico, September 10-11* by Sonoma Technology, Inc., Petaluma, CA (STI-905421-3429-UG).
- Dye T.S., Chan A.C., Bratek S.A., Jackson S.A., and White J.E. (2008) Air pollution public information systems in the United States. Presentation at the *Better Air Quality Conference, Bangkok, Thailand, November 19-21*, by Sonoma Technology, Inc., Petaluma, CA, and U. S. Environmental Protection Agency, Research Triangle Park, NC (STI-3494).
- 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.
- Chan A.C., Fu J.Q., Wang H., Lu T., Lin C., Dye T.S., White J.E., and Jackson S.A. (2008) Progress on Shanghai AIRNow-I pilot and supporting activities Presentation at the Yangtze River Delta Regional Air Quality Management Workshop, Shanghai, China by Sonoma Technology, Inc., Petaluma, CA, USA; Shanghai Environmental Monitoring Center, Shanghai, China; and United States Environmental Protection Agency, Research Triangle Park, NC, USA, STI-905403.07-3346, April.
- Miller D.S., Dye T.S., and Chan A.C., Zell E.R., and Engel-Cox J. (2008) Air quality stories: bridging the gap between the media and air quality. Presented at the *National Air Quality Conferences, Portland, OR, April 8* (STI-905401-3300).

- Miller D.S., Chan A.C., and Dye T.S. (2008) Real-time PM<sub>2.5</sub> reporting: the good, the bad, and the ugly. Poster presented at the *National Air Quality Conferences, Portland, OR, April 6-9* (STI-905401-3301).
- Miller D.S., Dye T.S., Jackson S.E., and White J.E. (2007) Workshop: Air Quality 101–Tools and Resources. Presented at the *National Weather Association's 32nd Annual Meeting, Reno, NV, October 13-18* (STI-905301.05-3238).
- 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.
- 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.
- Dye T.S., Chan A.C., White J., Jackson S., Dickerson P., and Jang C. (2007) The U.S. EPA's AIRNow program: system overview, operational challenges, and future plans for reporting real-time air quality data and forecasts. 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 U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-3102).
- 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).
- Chan A.C., Dye T.S., and Miller D.S. (2007) Louisiana Department of Environmental Quality ozone forecasting. Presentation for the Louisiana Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-907015-3160, April 23.
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- MacDonald C.P., Miller D.S., Raffuse S., and Dye T.S. (2006) WESTAR Ozone Transport Analysis. Presented at the WESTAR Fall Business Meeting, Boise, ID, by Sonoma Technology, Inc., Petaluma, CA, STI-3037, September.
- Chan A.C., Anderson C.B., Conatser N.D., Miller D.S., and Dye T.S. (2006) Review of the 2005-2006 winter smog season – air quality forecasting for Youngstown, Ohio. Presentation prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-906007.03-3002, July.
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- Anderson C.B., Chan A.C., Conatser N.D., and Dye T.S. (2005) Review of 2005 summer smog season - air quality forecasting for Columbus, Ohio. Presented to the *Mid-Ohio Regional Planning Commission Air Quality Committee*, Columbus, OH, October 4, by Sonoma Technology, Inc., Petaluma, CA (STI-905025.01-2823).
- Dye T.S., Chan A.C., Wayland R.A., and White J.E. (2005) A perfect smog storm: review of the particle pollution episode in the Midwest from January 31 to February 6, 2005. Presentation at the *34th Conference on Broadcast Meteorology*, Washington, DC, August 1-5 (STI-905101.03-2727).
- Dye T.S., Wayland R.A., White J.E., Anderson C.B., Chan A.C., and Lengyel C.E. (2005) The U.S. EPA's AIRNow program: system overview, data availability, and research needs. Presented at the *American Meteorological Society Atmospheric Sciences and Air Quality Conference*, San Francisco, CA, April 29 (STI-905101-2738).
- Dye T.S. and Nguyen D.T. (2005) Air quality in newspapers: is it correct? Presentation at the *U.S. Environmental Protection Agency's 2005 National Air Quality Conference: Quality of Air Means Quality of Life*, San Francisco, CA, February 12-13 (STI-905101.03-2689).

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- Wayland R. and Dye T.S. (2004) AIRNow and the Air Quality Index: helping you alert viewers of current and forecast air quality conditions. *National Weather Association Conference 29th Annual Meeting, Portland, OR, October 16-21*. Presented by U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA (STI-902117-2625).
- Dye T.S., MacDonald C.P., Knoderer C.A., and Lilly M.R. (2004) Air quality applications of wind profiler data. Presented at *Vaisala Wind Profiler Workshop, Boulder, CO, October 14-15* by Sonoma Technology, Inc., Petaluma, CA (STI-904012-2627).
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- 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.
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- MacDonald C.P., Lilly M.R., and Dye T.S. (2004) Using Vaisala LAP3000 - radar wind profiler and radio acoustic sounding systems data for air quality applications. Presented to Environmental Protection Administration, Taiwan, by Sonoma Technology, Inc., Petaluma, CA, STI-904012-2606, September.
- Miller D.S., MacDonald C.P., Lilly M.R., Nguyen D.T., and Dye T.S. (2004) Albuquerque ozone forecasting tool development training manual. Presented to the City of Albuquerque, Air Quality Division, Albuquerque, NM, by Sonoma Technology, Inc., Petaluma, CA, STI-904340-2563, June.
- Knoderer C.A., Raffuse S.M., Funk T.H., Dye T.S., and MacDonald C.P. (2004) Task 1.3: surface and upper-air meteorological representativeness in the San Joaquin Valley. Presentation to the *CRPAQS Data Analysis Workshop, Sacramento, CA, March 9-10* by Sonoma Technology, Inc., Petaluma, CA (STI-902324-2497).
- Raffuse S.M., Chan A.C., Funk T.H., Alcorn S.H., Strohm D.E., and Dye T.S. (2004) Incorporating ASOS visibility data in PM<sub>2.5</sub> mapping. Presented at the *U.S. Environmental Protection Agency's 2004 National Air Quality Conference: Your Forecast to Breathe By, Baltimore, MD, February 22* (STI-2492).

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- Chan A.C., Dye T.S., MacDonald C.P., Anderson C.B., Miller D.S., and Garlock J. (2004) Air quality nowcasting for the issuance of health advisories in the Sacramento, California, metropolitan region. Paper for the *2004 American Meteorological Society Annual Meeting, Symposium on Planning, Nowcasting, and Forecasting in the Urban Zone, Seattle, WA, January 11-15* (STI-2410).
- Wayland R.A., White J.E., Dye T.S., Anderson C.B., Chan A.C., and Strohm D.E. (2004) Future of AIRNow forecasting and the Air Quality Index: beyond mapping and forecasting. Paper presented at the *2004 American Meteorological Society Annual Meeting, AMS Sixth Conference on Atmospheric Chemistry: Air Quality in Megacities, Seattle, WA, January 11-15*, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA (STI-902107-2406).
- Dye T.S., Chan A.C., Anderson C.B., Strohm D.E., Wayland R.A., and White J.E. (2004) From raw air quality data to the nightly news: an overview of how EPA's AIRNow program operates. Paper presented at the *2004 American Meteorological Society Annual Meeting, AMS Sixth Conference on Atmospheric Chemistry: Air Quality in Megacities, Seattle, WA, January 11-15*, by Sonoma Technology, Inc., Petaluma, CA, and U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-902107-2405).
- Strohm D.E., Dye T.S., and MacDonald C.P. (2004) The influence of meteorological phenomena on midwest PM<sub>2.5</sub> concentrations: a case study. Paper presented at the *2004 American Meteorological Society Annual Meeting, AMS Sixth Conference on Atmospheric Chemistry: Air Quality in Megacities, Seattle, WA, January 11-15* (STI-903480-2404).
- Anderson C.B., Dye T.S., Chan A.C., Miller D.S., Strohm D.E., and MacDonald C.P. (2003) Summary of 2003 ozone forecasting, ozone mapping, and AirAlert. Presentation to the Air Districts of the Sacramento Region, Air Pollution Control Officers Meeting, Sacramento, CA, December (STI-903213-2455).
- Dye T.S. (2003) Air Quality Forecasting for Minneapolis-St. Paul, MN. Presented at the *Air & Waste Management Association-Upper Midwest Section 2003 18th Annual Conference on the Environment, Minneapolis, November 20* (STI-903400-2438).
- Dye T.S., Anderson C.B., Nguyen D.T., and Chan A.C. (2003) Summary of ozone forecasting in Youngstown-Warren, Ohio. Presentation prepared for EASTGATE Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-903380-2437, November.
- MacDonald C.P., Dye T.S., Strohm D.E., Nguyen D.T., Miller D.S., and Ryan W. (2003) PM<sub>2.5</sub> regional forecasting workshop (San Francisco, Research Triangle Park, Chicago, Boston). Workshop prepared for U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902466-2411, September.
- 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).

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- 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).
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- Funk T.H., Dye T.S., Chan A.C., Anderson C.B., and Penfold B.M. (2003) Mapping PM<sub>2.5</sub> – methods and uncertainties. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference, San Antonio, TX, February 2-5* (STI-902090-2324).
- Dye T.S., Anderson C.B., Strohm D.E., and MacDonald C.P. (2003) Pilot PM<sub>2.5</sub> forecasting projects for 21 *USA Today* cities. Presented at the *U.S. Environmental Protection Agency's 2003 National Air Quality Conference, San Antonio, TX, February 2-5* (STI-902461-2322).
- Anderson C.B., Dye T.S., MacDonald C.P., and Chan A.C. (2002) Summary of 2002 ozone forecasting, ozone mapping, data analysis, and AirAlert. Presented at the *Air Districts of the Sacramento Region APCO Meeting, Sacramento, CA, December 12* (STI-900161-2306).
- Chan A.C., Dye T.S., Anderson C.B., Wayland C., and White J. (2002) From raw data to television: how the U.S. Environmental Protection Agency's AIRNow system works. Presented at the *Better Air Quality in Asian and Pacific Rim Cities Conference, Hong Kong, December* (STI-2293).

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- Dye T.S. (2002) Air quality forecasting and public outreach. Presented to the Egyptian Environmental Affairs Agency, July 23, STI-902430-2223.
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