

## 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.
- Dabberdt W.F., Carroll M.A., Baumgardner D., Carmichael G., Cohen R., Dye T., Ellis J., Grell G., Grimmond S., Hanna S., Irwin J., Lamb B., Madronich S., McQueen J., Meagher J., Odman T., Pleim J., Schmid H.P., and Westphal D.L. (2004) Meteorological research needs for improved air quality forecasting. Report of the 11<sup>th</sup> Prospectus Development Team of the U.S. Weather Research Program. *Bull. Am. Meteorol. Soc.* April, 563-586.
- Wayland R.A., White J.E., Dickerson P.G., and Dye T. (2002) Communicating real-time and forecasted air quality to the public: current state and future plans. *Air & Waste Manag. Assoc.'s EM*, December 28-36.
- 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).
- Lindsey C.G., Chen J., Dye T.S., Richards L.W., and Blumenthal D.L. (1999) Meteorological processes affecting the transport of emissions from the Navajo Generating Station to Grand Canyon National Park. *J. Appl. Meteorol.* **38**, No. 8, 1031-1048.
- Dye T.S., Roberts P.T., and Korc M.E. (1995) Observations of transport processes for ozone and ozone precursors during the 1991 Lake Michigan Ozone Study. *J. Appl. Meteorol.* **34**, 1877-1889 (STI-1394).
- Wilczak, J.M., Strauch R.G., Ralph F.M., Weber B.L., Merritt D.A., Jordan J.R., Wolfe D.E., Lewis L.K., Wuertz D.B., Gaynor J.E., McLaughlin S.A., Rogers R.R., Riddle A.C., and Dye T.S. (1995): Contamination of wind profiler data by migrating birds: characteristics of corrupted data and potential solutions. *J. Atmos. Oceanic Technol.*, **12** (3) 449-467.

## 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).
- 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, Sonora, 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).
- Miller D.S., Pasch A.N., Chan A.C., and Dye T.S. (2009) Real-time PM<sub>2.5</sub> reporting. Presented at the *National Air Quality Conference, Dallas, TX, March 3*, by Sonoma Technology, Inc., Petaluma, CA (STI-3549).
- 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.
- Dye T.S. and Ludewig S.A. (2007) AirUpdate: free air quality forecast displays for your website. Presented at the *2007 National Air Quality Conferences, Orlando, FL, February 11-14*, by Sonoma Technology, Inc., Petaluma, CA (STI-3077).
- Chan A.C., Conatser N.D., Dye T.S., and Miller D.S. (2006) 2006 forecasting and outreach. End of season report prepared for the Air Districts of the Sacramento Region, *Air Pollution Control Officers Meeting, Sacramento, CA, December 19*, by Sonoma Technology, Inc., Petaluma, CA (STI-904311-3100).
- 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.
- Chan A.C., Anderson C.B., Conatser N.D., and Dye T.S. (2006) Winter smog season air quality forecasting in the Mahoning Valley, Ohio. Presentation to the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-906007.03-2009, July.
- Anderson C.B., Chan A.C., Conatser N.D., Dye T.S., and Miller D.S. (2006) Review of the 2005-2006 winter smog season–air quality forecasting for Columbus, Ohio. Presentation to Mid-Ohio Regional Planning Commission, Air Quality Committee, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-905025.02-3003, July.
- Dye T.S., Miller D.S., Carmichael G., Jalkanen L., Manins P., and San Jose R. (2006) World Meteorological Organization course on air quality forecasting. Presented in Lima, Peru, July 10-14, by Sonoma Technology, Inc., Petaluma, CA; University of Iowa, Iowa City, IA; World Meteorological Organization, Geneva, Switzerland; Commonwealth Scientific and Industrial Research Organization, Australia; and Technical University of Madrid, Campus de Montegancedo, Madrid, Spain (STI-905059-2951).
- 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.

- Bullard S., Stackhouse D., and Dye T. (2006) The care and feeding of AirShare! Presented at the *U.S. Environmental Protection Agency's 2006 National Air Quality Conference: Air Quality Forecasting, Mapping, and Monitoring and Communicating Air Quality and Communities in Motion, San Antonio, TX, February 5-8* by Sonoma Technology, Inc., Petaluma, CA, and U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-2858).
- Chan A.C., Dye T.S., Wayland R.A., Homolya J.B., and Vanichchagorn M. (2006) Air quality monitoring and forecasting in the aftermath of Hurricane Katrina. Presented at the *U.S. Environmental Protection Agency's 2006 National Air Quality Conference: Air Quality Forecasting, Mapping, and Monitoring and Communicating Air Quality and Communities in Motion, San Antonio, TX, February 5-8* by Sonoma Technology, Inc., Petaluma, CA; U.S. Environmental Protection Agency, Research Triangle Park, NC; and Louisiana Department of Environmental Quality, Baton Rouge, LA (STI-2855).
- Anderson C.B., Chan A.C., Conatser N.D., and Dye T.S. (2005) Summary of 2005 ozone forecasting, ozone mapping, and AirAlert. Presented at the *Air Districts of the Sacramento Region Air Pollution Control Officers Meeting, Sacramento, CA, December 12* by Sonoma Technology, Inc., Petaluma, CA (STI-904301-2872).
- 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.
- 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).
- Dye T.S., Anderson C.B., Chan A.C., and Lengyel C.E. (2004) 2004 summer ozone season - air quality forecasting for Youngstown, Ohio. Presentation prepared for Eastgate Regional Council of Government, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-904190-2640, November.
- 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).

- MacDonald C.P., Lilly M.R., and Dye T.S. (2004) Mixing height detection. Presented at *Vaisala Wind Profiler Workshop, Boulder, CO, October 14-15* by Sonoma Technology, Inc., Petaluma, CA (STI-904012-2628).
- 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).
- Anderson C.B., Chan A.C., Lengyel C.E., and Dye T.S. (2004) Review of 2004 summer smog season - air quality forecasting for Columbus, Ohio. Presentation prepared for Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-904200-2634, October.
- 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.
- White J.E., Wayland R.A., Dye T.S., and Chan A.C. (2004) AIRNow air quality notification and forecasting system. Presented at the *Beijing International Environment Forum, Beijing, China, September 14-15* (STI 2588).
- Dye T.S. (2004) AIRNow forecasting system. Presented at the *Beijing International Environment Forum, Beijing, China, September 14-15* (STI-902116-2604).
- 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).
- MacDonald C.P., Carfagno J., Cassmassi J.C., Dye T.S., Gilroy M.J., Miller D.S., Nese J., Ryan W.F., and Weinstock L. (2004) Short course on air quality forecasting. Presented at the *U.S. Environmental Protection Agency's 2004 National Air Quality Conference: Your Forecast to Breathe By, Baltimore, MD, February 22* (STI-902475-2489).
- Dye T.S. (2004) From raw air quality data to the nightly news: how EPA's AIRNow program operates. Presentation prepared for Egyptian Delegation, San Francisco, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-2480, January 28.
- 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).
- Dye T.S., Anderson C.B., Strohm D.E., Miller D.S., Chan A.C., MacDonald C.P., and Nguyen D.T. (2003) Summary of ozone forecasting in Youngstown, Ohio. Presentation prepared for EASTGATE Regional Council of Governments, Austintown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-903380-2382, June.
- Miller D.S., MacDonald C.P., and Dye T.S. (2003) Ozone forecasting tool development to support forecasting for the EPA AIRNow program. Presented at the *American Meteorological Society Annual Meeting, Fifth Conference on Atmospheric Chemistry: Gases, Aerosols, and Cloud, 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).
- 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).
- Miller D.S., MacDonald C.P., and Dye T.S. (2003) Ozone forecasting tool development to support forecasting for the EPA AIRNow program. Paper No. 5.5a presented at the *American Meteorological Society Annual Meeting, Fifth Conference on Atmospheric Chemistry: Gases, Aerosols, and Cloud, Long Beach, CA, February 8-13* (STI-901202-2220).
- Dye T.S. and Anderson C.B. (2003) Weather service provider coordination. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Mapping and Forecasting, San Antonio, TX, February 2-5* (STI-902089-2318).
- Chan A.C., Anderson C.B., and Dye T.S. (2003) AIRNow year in review 2002. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Mapping and Forecasting, San Antonio, TX, February 2-5* (STI-902082-2340).
- 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. Environmental Protection Agency 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).
- 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).
- Chinkin L.R., MacDonald C.P., Funk T.H., Crews J.M., Dye T.S., and Wheeler N.J.M. (2002) Preliminary assessment of ozone air quality in the Minneapolis/St. Paul region. Presented at the Minnesota Environmental Initiative Clean Air Minnesota Rollout, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-901104-901105-2242, October 30.
- Chan A.C., Dye T.S., Anderson C.B., MacDonald C.P., Miller D.S., and Knoderer C.A. (2002) Summary of the 2002 ozone forecasting for Minneapolis/St. Paul, MN. Presentation prepared for the Minneapolis Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-901102-2272, October.

- Dye T.S., Anderson C.B., Chan A.C., and MacDonald C.P. (2002) August mega-ozone episode AIRNow PM<sub>2.5</sub> forecasting media coverage. Presented at the *Sacramento Meteorological Air Quality Management District Mid-Ozone Season Meeting, Sacramento, CA, September 12* (900161-2343).
- Dye T.S. (2002) Air quality forecasting and public outreach. Presented to the Egyptian Environmental Affairs Agency, July 23, STI-902430-2223.
- Miller D.S., MacDonald C.P., Dye T.S., and Thompson B.S. (2002) Part 1: Minneapolis forecasting tool Part 2: Review of 2001 ozone episodes. Prepared for the Lake Michigan Air Directors Consortium and Minnesota Pollution Control Agency, February 26, STI-901102-2160.
- MacDonald C.P., Knoderer C.A., Dye T.S., Thompson B.S., Miller D.S., and Anderson C.B. (2002) Developing and operating air quality forecasting programs for five cities. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Forecasting and Public Outreach, San Francisco, CA, February 4-6* (STI-2148).
- Dye T.S., Miller D.S., MacDonald C.P., Anderson C.B., and Thompson B.S. (2002) PM<sub>2.5</sub> forecasting method development and operations for Salt Lake City, Utah. Presented at the *U.S. Environmental Protection Agency's National Air Conference: Forecasting and Public Outreach, San Francisco, CA, February 4-6*, (STI-2146).
- Funk T.H., Ludewig S.A., Dye T.S., and Bradley R. (2002) Using Geographic Information Systems for real-time display of air quality data. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Forecasting and Public Outreach, February 3-6* (STI-2147).
- Dye T.S. (2002) Weather service provider coordination. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Forecasting and Public Outreach, San Francisco, CA, February 4-6* (STI-2144).
- Dye T.S., Anderson C.B., and Shearer K.B. (2002) AirAlert: air quality notification system for Sacramento, California. Presented at the *American Meteorological Society 82nd Annual Meeting, Orlando, FL, January 14* (STI-2139).
- Dye T.S. (2001) Current state and future needs of air quality forecasting. Presented at the *U.S. Weather Research Program, PDT-11: Meteorological Aspects of Air Quality, Palm Springs, CA, November 6-8* (STI-2128).
- Thompson B.S., MacDonald C.P., and Dye T.S. (2001) Minneapolis/St. Paul, MN summer 2001 ozone episodes. Presentation prepared for the Minneapolis Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, 901102-2123, October.
- Dye T.S., MacDonald C.P., and Anderson C.B. (2001) Developing an air quality forecasting program. Presented at Little Rock, Arkansas; Memphis, Tennessee; Columbus, Ohio; and Nashville, Tennessee, September (STI-2113).
- Dye T.S., MacDonald C.P., Anderson C.B., and Knoderer C.A. (2001) Ozone forecasting status meetings. Presentation at Nashville-Memphis, Columbus, Minneapolis, June 25-27, STI-901201-2090.
- 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 Anderson C.B. (2001) Five-day ozone forecasting for Sacramento, California: Development and operational results. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Mapping, Forecasting, and Action Day Programs*, Charlotte, NC, January 31-February 1 (STI-2052).
- Dye T.S. (2001) Working with weather service providers. Presented at the *U.S. Environmental Protection Agency's National Air Quality Conference: Mapping, Forecasting, and Action Day Programs*, Charlotte, NC, January 30-February 1 (STI-2051).
- Dye T.S., Anderson C.B., MacDonald C.P., Knoderer C.A., Hotchi T., and Ludewig S.A. (2000) Summary of 2000 ozone forecasting, ozone mapping, and e-alert. Presented to the Air Pollution Control Officers Meeting at Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900141-2036, December 7.
- Roberts P.T., MacDonald C.P., Dye T.S., and Hanna S.R. (2000) Boundary layer study in the Western and Central Gulf of Mexico. Presented at the Department of Interior, Mineral Management Services Information Transfer Meeting, New Orleans, LA, December 3-5, (STI-998553-2035).
- Dye T.S. and Knoderer C.A. (2000) Training materials for the LAP-3000 and Gateway version 1.7. Training manual prepared by Sonoma Technology, Inc., Petaluma, CA, STI-999060-1865-TM, October.
- 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).
- Dye T.S., Roberts P.T., MacDonald C.P., Narayanan M., Hotchi T., and Knoderer C. (2000) Initial analyses and results for the air quality early warning system. Presented to the Technical Working Group, Egyptian Environmental Affairs Agency, Cairo, Egypt, July 31 (STI-900442-1998).
- Anderson C.B., Dye T.S., and Shearer K. (2000) From the raw data to the nightly television news: how ozone movies are generated and used in the Sacramento, California region. In *Proceedings of the 93rd Annual Air & Waste Management Association Conference & Exhibition, Salt Lake City, UT, June 18-22* (STI-1917).
- Wheeler N.J.M., Dye T.S., Fine S., Smith W.T., Gatti D., Thorpe S., and Lo S. (2000) Development and implementation of a national ozone mapping system. In *Proceedings of the 93rd Annual Air & Waste Management Association Conference and Exhibition, Salt Lake City, Utah, June 18-22* (STI-1958).
- Dye T.S. and Anderson C.B. (2000) Overview of EPA's Ozone Mapping Project. Presented to the Pima County Department of Environmental Quality and Clark County Department of Health, Tucson, AZ, May (STI-900192-1925).
- Dye T.S. (2000) Ozone maps on television: history, issues, and future work. Presented at the 1999 Post-season Ozone Mapping Workshop, Dallas, TX, February 14-16 (STI-1943).
- Dye T.S., MacDonald C.P., and Anderson C.B. (2000) AQcast: an automated objective air quality forecasting system. Presented at the 1999 Post-season Ozone Mapping Workshop, Dallas, TX, February 14-16 (STI-1946).
- Dye T.S., MacDonald C.P., and Anderson C.B. (2000) Air quality forecasting for the Spare The Air program in Sacramento, CA: summary of four years of ozone forecasting. Presented at the *EUMETNET Workshop on Ground-Level Ozone Forecasting, Langen, Germany, February 21* (STI-1944).
- Dye T.S., Anderson C.B., MacDonald C.P., Kwiatkowski J.J., and Ladner D.J. (1999) Summary of 1999 ozone forecasting, ozone mapping, and e-alert. Presentation to the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., STI-999052-1932, December 15.

- MacDonald C.P., Dye T.S., and Roberts P.T. (1999) Spatial and temporal observations of the planetary boundary layer during ozone episodes in the South Coast Air Basin. In Proceedings of the *American Meteorological Society 2nd Conference on Environmental Applications, Long Beach, CA, January 2000* (STI 1915).
- Dye T.S., MacDonald C.P., and Anderson C.B. (1999) Air quality forecasting for the Spare The Air program in Sacramento, California: summary of four years of ozone forecasting. In Proceedings of the *American Meteorological Society 2nd Conference on Environmental Applications, Long Beach, CA, January 2000* (STI 1914).
- Dye T.S. and Shearer K. (1999) Ozone forecasting to support the Spare The Air program in Sacramento, CA. Presented at the *Air & Waste Management Association National Conference for Ozone Action Program, Phoenix, AZ, December 5-7* (STI 1941).
- Roberts P.T., MacDonald C.P., Dye T.S., and Hanna S.R. (1999) Boundary Layer Study in the Western and Central Gulf of Mexico. Presented at the Minerals Management Service Information Transfer Meeting (STI-998553-1928).
- Dye T.S. and Peterman K.R. (1999) Operating profilers on offshore oil platforms. Presented at the *National Oceanic and Atmospheric Administration Laboratories Cooperative Research and Development Agreement: First European Conference for Atmospheric Wind and Temperature Profiling, Innsbruck, Austria, July 23-24* (STI 999012-1902).
- Dye T.S., MacDonald C.P., and Roberts P.T. (1999) Mixing depths for air quality applications. Presented at the *National Oceanic and Atmospheric Administration Laboratories Cooperative Research and Development Agreement: First European Conference for Atmospheric Wind and Temperature Profiling, Innsbruck, Austria, July 23-24* (STI 999012-1903).
- 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).
- Dye T.S., MacDonald C.P., and Roberts P.T. (1998) Mixing depth structure and evolution as diagnosed from 915 MHz profiler data. Presented at the *4th International Symposium on Tropospheric Profiling in Snowmass, CO, September 20-28* (STI 1811).
- MacDonald C.P. and Dye T.S. (1998) Evaluation of mixing depths computed from radar wind profilers and Radio Acoustic Sounding Systems. Presented at *PM<sub>2.5</sub> A Fine Particle Standard, Long Beach, CA, sponsored by Air & Waste Management Association, the U.S. Environmental Protection Agency, and the U.S. Department of Energy, January 28-30* (STI-997218-1804).
- Richards L.W., Blumenthal D.L., Dye T.S., Watson J., Chow J., Dietrich D.L., Cobb D., and Cismoski D.S. (1998) Fine particle formation in plumes in a pristine area. Presented at the *Air & Waste Management Association PM<sub>2.5</sub> Conference in Long Beach, CA, Jan 28-30*.
- Blumenthal D.L., Ray S.E., Dye T.S., Korc M., Moore G., and Londergan R. (1998) Transport phenomena related to ozone episodes in the Northeast U.S. Paper no. 54.5 presented at the *10th Joint Conference on the Applications of Air Pollution Meteorology, January 11-16* (STI 1756).
- Dye T.S., Roberts P.T., and MacDonald C.P. (1998) Mixing depth structure and evolution as diagnosed from upper-air meteorological data collected during the NARSTO-Northeast study. Paper No. 5A.6 presented at the *10th Joint Conference on the Applications of Air Pollution Meteorology, Phoenix, AZ, January 11-16* (STI 1749).

- Ray S.E., Dye T.S., Roberts P.T., and Blumenthal D.L. (1998) Analysis of nocturnal low-level jets in the Northeastern United States during the summer of 1995. Paper No. 5A.4 presented at the *10th Joint Conference on the Applications of Air Pollution Meteorology*, Phoenix, AZ, January 11-16 (STI 1750).
- Dye T.S. (1997) An approach to ozone forecasting: a case study of Sacramento, CA. Presented at the *4th Annual Voluntary Ozone Reduction Conference*, Fort Lauderdale, FL, December 1-3 (STI 1787).
- Dye T.S. (1997) Using a regression model to predict ozone levels: approach and results. Presented at the *4th Annual Voluntary Ozone Reduction Conference*, Fort Lauderdale, FL, December 2-4 (STI 1785).
- Dye T.S. and Shearer K. (1997) Summary of ozone mapping in the Sacramento, California region. Presented at the *4th Annual Voluntary Ozone Reduction Conference*, Fort Lauderdale, FL, December 1-3 (STI 1786).
- Richards L.W., Dye T.S., Hurwitt S., Allen G., and Oh J.A. (1997) ASOS visibility sensor data as an indicator of PM and haze. Paper presented at the *Air & Waste Management Association/American Geophysical Union Specialty Conference on Visual Air Quality, Aerosols and Radiation Balance*, Bartlett, NH, September (STI-1825).
- Dye T.S., Lindsey C.G., Roberts P.T., and Anderson J.A. (1996) Mixing depth structure and evolution as diagnosed from upper-air meteorological and aircraft measurements. Presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop*, Norfolk, VA, December 10-12.
- Roberts P.T., Dye T.S., Anderson J.A., and Blumenthal D. (1996) Case study of 3-D meteorological and air quality characteristics downwind of New York City during a 1995 ozone episode. Talk presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop*, Norfolk, VA, December 10-12.
- Dye T.S., Ray S.E., and Lindsey C.G. (1996) Ozone forecasting efforts for spare the air programs and air quality field studies. Presented at the *Indiana Dept. of Environmental Management 3rd Annual Voluntary Ozone Reduction Conference*, Indianapolis, IN, November 18-19 (STI-1618).
- Dye T.S., Ray S.E., Lindsey C.G., and Arthur M. (1996) Development of equations to predict ozone concentrations. Presented at the *Indiana Dept. of Environmental Management 3rd Annual Voluntary Ozone Reduction Conference*, Indianapolis, IN, November 18-19 (STI-1617).
- Lindsey C.G., Dye T.S., Blumenthal D.L., Ray S.E., and Arthur M. (1996) Meteorological aspects of summertime ozone episodes in the Northeast. Paper FA 5.8 presented at the *9th Joint Conference on the Applications of Air Pollution Meteorology at the 76th American Meteorological Society Annual Meeting*, Atlanta, GA, January 28-February 2 (STI-1549).
- Lindsey C.G., Dye T.S., Roberts P.T., and Ray S.E. (1996) Characteristics of the sea breeze-land breeze circulation observed over the Gulf of Mexico. Paper FA 12.1 presented at the *Conference on Coastal Oceanic and Atmospheric Prediction at the 76th American Meteorological Society Annual Meeting*, Atlanta, GA, January 28-February 2 (STI-1546).
- Main H.H., Roberts P.T., Korc M.E., Coe D.S., Dye T.S., Lindsey C.G., and Reiss R. (1995) Analysis of PAMS and NARSTO-Northeast data - supporting evaluation and design of ozone control strategies: a workshop. Presented at U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, December 11-12 (STI-94551/94581-1551-WD1, EPA WA-5-95 and WA-8-95).
- Lindsey C.G., Dye T.S., Roberts P.T., Anderson J.A., and Ray S.E. (1995) Meteorological aspects of ozone episodes in southeast Texas. Paper No. 95-WP96.02 presented at the *Air & Waste Management Association 88th Annual Meeting*, San Antonio, TX, June 18-23.

- Dye T.S., Lindsey C.G., and Anderson J.A. (1995) Estimates of mixing depth from “boundary layer” radar profilers. In *Preprints of the Ninth Symposium on Meteorological Observations and Instrumentation, Charlotte, NC, March 27-31*, 156-160 (STI-94212-1451).
- Dye T.S., Lindsey C.G., Roberts P.T., and Anderson J.A. (1994) Evaluation of mixing depths derived from 915-MHz radar profiler reflectivities during recent air quality studies. In *Preprints of the Third International Symposium on Tropospheric Profiling: Needs and Technologies, Hamburg, Germany, August 30-September 2*, 120-122 (STI-1435).
- Lindsey C.G. and Dye T.S. (1994) Quality assurance programs for “boundary layer” radar profilers and RASS. In *Preprints of the Third International Symposium on Tropospheric Profiling: Needs and Technologies, Hamburg, Germany, August 30-September 2*, 226.
- Lindsey C.G., Dye T.S., Anderson J.A.A., Roberts P.T., and Blumenthal D.L. (1994) Radar profiler observations of boundary layer processes affecting air quality. In *Preprints of the Third International Symposium on Tropospheric Profiling: Needs and Technologies, Hamburg, Germany, August 30-September 2*, 45-47 (STI-1436).
- Lindsey C.G. and Dye T.S. (1994) Collecting and interpreting upper air data for the PAMS network using radar profilers and RASS. Presented at the *Air & Waste Management Association's Conference on Enhanced Ozone Monitoring: Status and Developments, International Symposium on Measurements of Toxic and Related Air Pollutants, Durham, NC, May 3-6*.
- Lindsey C.G., Dye T.S., Anderson J.A., and Wolfe D.E. (1994) Observations of the marine boundary layer over southeast Texas and the Gulf of Mexico using 915 MHz radar profiler and RASS. Paper presented at the *American Meteorological Society 74th Annual Meeting, Nashville, TN, January 23-28*.
- Korc M.E., Roberts P.T., Main H.H., and Dye T.S. (1994) Evaluation of ozone, NO<sub>x</sub>, and volatile organic compounds during the 1991 Lake Michigan Ozone Study. In *Transactions of the Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12, 1993*, Air & Waste Management Association, Pittsburgh, PA, (STI-1381).
- Lindsey C.G. and Dye T.S. (1993) Upper air meteorological measurements for the Gulf of Mexico Air Quality Study. Paper presented at the *Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12*.
- Dye T.S., Roberts P.T., and Korc M.E. (1993) Observations of multiple transport regimes for ozone and ozone precursors during the 1991 Lake Michigan Ozone Study. Paper presented at the *Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12*.
- Reynolds S.D., Tesche T.W., Dye T., Roberts P., Franzon D.E., Chinkin L.R., and Reid S.B. (1993) Assessment of planned northeast ozone transport region modeling activities. Paper No. 93-WA-69A.01 presented at the *Air & Waste Management Association 86th Annual Meeting, Denver, CO, June 14-18*.
- Lindsey C.G., Dye T.S., and Zeigler G.Z. (1993) Evolution of the marine boundary layer revealed by 915-MHz radar profiler and RASS observations in southern California. Paper presented at the *American Meteorological Society 26th Annual Conference on Radar Meteorology, Norman, OK, May 24-27*.
- Lindsey C.G. and Dye T.S. (1993) Strategies for validating radar profiler and RASS data and evaluating instrument performance. Paper presented at the *European Geophysics Society XVIII General Assembly - Second COST-74 Wind Profiler Workshop, Wiesbaden, Germany, May 3-7*.

- Lindsey C.G., Dye T.S., Zeigler G.Z., and Durkee K. (1993) Characteristics of the marine boundary layer revealed by 915 MHz radar profiler and RASS observations. Paper presented at the *European Geophysics Society XVIII General Assembly - Second COST-74 Wind Profiler Workshop, Wiesbaden, Germany, May 3-7*.
- Dye T.S. and Lindsey C.G. (1992) Evaluation of performance of 915 MHz radar profilers and RASS during the 1991 Lake Michigan Ozone Study. Paper No. 92-68.03 prepared for the *Air & Waste Management Association 85th Annual Meeting, Kansas City, KS, June 21-26*.
- Lindsey C.G., Dye T.S., Prins E.M., Lehrman D.E., and Peterman R.K. (1992) Upper air meteorological measurements for the Lake Michigan Ozone Study. Paper No. 92-87.07 prepared for the *Air & Waste Management Association 85th Annual Meeting, Kansas City, KS, June 21-26*.
- Roberts P.T., Dye T.S., and Main H.H. (1992) Data analysis for the Lake Michigan Ozone Study. Paper No. 92-87.05 prepared for the *Air & Waste Management Association 85th Annual Meeting, Kansas City, KS, June 21-26*.
- Roberts P.T., Dye T.S., Hanna S.R., and Haga C.M. (1991) Data analysis for the Lake Michigan Ozone Study. Paper presented at the *Air, Water, and Waste Technologies Conference, Detroit, MI, November 11-14*.
- Roberts P.T., Dye T.S., Hanna S.R., and Haga C.M. (1991) Data analysis for the Lake Michigan Ozone Study. In *Transactions No. 20 from the Tropospheric Ozone and the Environment II Effects, Modeling and Control International Specialty Conference, November*, R.L. Berglund, ed., Air & Waste Management Association, Pittsburgh, PA.
- Lindsey C.G., Chen J., and Dye T.S. (1991) Meteorological processes affecting transport of emissions from the Navajo Generating Station. Paper No. 91-47.8 presented at *Air & Waste Management Association 84th Annual Meeting, Vancouver, B.C., June 16-21*.

### **Formal Reports**

- Wheeler N.J.M., Ludewig S.A., Gray E.A., Dye T.S., and Chan A.C. (2008) AIRNow Data Management Center (DMC) contingency plan. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905203.02-2861, September.
- Dye T.S. and MacDonald C.P. (2008) Training workshop for air quality agencies in China to promote applications and benefits of Vaisala's remote sensors. Memorandum prepared by Sonoma Technology, Inc., Petaluma, CA, STI-908501.01-3363, May.
- Dye T.S., Chan A.C., Gray E.A., Reed J.E., and Pryden D.A. (2008) AIRNow-International (AIRNow-I) draft specifications document. Software specifications prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905403.06-3282, May.
- Gray E., Dye T., Ovard C., Chan A., Conatser N., Ludewig S.A., and Miller D.S. (2007) AIRNow Gateway implementation, final specifications. Specifications document prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905302.02-3033-TM, January.
- 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.

- MacDonald C.P., Knoderer C.A., and Dye T.S. (2005) Texas Air Quality Study II on-site reference manual for offshore site radar wind profilers, Radio Acoustic Sounding Systems, Sodars, and surface meteorological stations. Reference manual prepared for the Texas Commission on Environmental Quality, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-905015.05-2785-FRM, August.
- Chan A.C., Anderson C.B., and Dye T.S. (2005) Review of the 2004-2005 winter smog season - air quality forecasting for Columbus, Ohio. Presentation prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-905025-2769, July.
- White J.E., Jackson S.A., Dye T.S., and Chan A.C. (2005) AIRNow air quality notification and forecasting system. Training prepared for the Shanghai Environmental Monitoring Center, Shanghai, People's Republic of China, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA, STI-905101.02-2741, May.
- Miller D.S., MacDonald C.P., Lengyel C.E., Nguyen D.T., and Dye T.S. (2005) Albuquerque PM<sub>2.5</sub> forecasting tool development. Final report prepared for the City of Albuquerque, Air Quality Division, Albuquerque, NM, by Sonoma Technology, Inc., Petaluma, CA, STI-904740-2679-FR, April.
- Knoderer C.A., MacDonald C.P., and Dye T.S. (2004) Training materials for the LAPLoad and GraphXM software packages. Prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-904410-2615-TM, September.
- Miller D.S., MacDonald C.P., Lilly M.R., Nguyen D.T., and Dye T.S. (2004) Albuquerque ozone forecasting tool development. Final report prepared for the City of Albuquerque, Albuquerque, NM, by Sonoma Technology, Inc., Petaluma, CA, STI-904340-2572-FR, June.
- Knoderer C.A., Lilly M.R., MacDonald C.P., Dye T.S., and Prouty J.D. (2004) Functional design specification document for the LAPMom version 2 moments display program. Design specification document prepared for Sonoma Technology, Inc., Petaluma, CA, and Vaisala, Inc., Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, 904017-2548-DSD, June.
- Brown S.G. and Dye T.S. (2003) PM<sub>2.5</sub> forecasting - statistical forecasting tool. Technical memorandum prepared for the Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Petaluma, CA, STI-903480-2433-TM, December.
- Ludewig S.A., Dye T.S., Gray E.A., and Pryden D.A. (2003) Functional design specification document for the AirShare web site. Prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-903680-2445-DSD, November.
- Dye T.S. (2003) Automated Surface Observing Systems (ASOS): Section 1 - summary of activities with NOAA to acquire 1-minute ASOS data. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434a, October.
- Alcorn S.H., Prouty J.D., Knoderer C.A., Dye T.S., and Richards L.W. (2003) Automated Surface Observing Systems (ASOS): Section 2 - data collections and processing methods applied to 1-minute ASOS data. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434b, October.
- Alcorn S.H., O'Brien T.E., Richards L.W., and Dye T.S. (2003) Automated Surface Observing Systems (ASOS): Section 3 - comparisons between ASOS light scattering data and continuous PM<sub>2.5</sub> measurements. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434c, October.

- Strohm D.E. and Dye T.S. (2003) Automated Surface Observing Systems (ASOS): Section 4 - case studies. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434d, October.
- Brown S.G. and Dye T.S. (2003) PM<sub>2.5</sub> forecasting synoptic typing. Technical memorandum prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Petaluma, CA, STI 903480-2414-TM, September.
- MacDonald C.P., Ludewig S.A., Gray E.A., Knoderer C.A., Dye T.S., and Nguyen D.T. (2003) AIRNow-AQ forecast system user manual. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902465-2412-UM, August.
- Dye T.S., Gray E.A., and Ludewig S.A. (2003) Functional design specification document for the AQI History reporting web site. Design specification document prepared for the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902582-2403-DSD, July.
- Dye T.S., Anderson C.B., Ludewig S.A., Gray E.A., Chan A.C., and Strohm D.E. (2003) AIRNow-Tech user manual. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902088-2383-UM, June.
- U.S. Environmental Protection Agency (2003) Guidelines for developing an air quality (ozone and PM<sub>2.5</sub>) forecasting program. Prepared by Dye T.S., MacDonald C.P., Anderson C.B., Hafner H.R., Wheeler N.J.M., and Chan A.C. at Sonoma Technology, Inc., Petaluma, CA, STI-902461-2295-FR, EPA-456/R-03-002, June. Available on the Internet at [http://www.epa.gov/airnow/aq\\_forecasting\\_guidance-1016.pdf](http://www.epa.gov/airnow/aq_forecasting_guidance-1016.pdf).
- Chan A.C., MacDonald C.P., and Dye T.S. (2003) Analysis of the February 26-March 2, 2003 PM<sub>2.5</sub> episode over the Midwest. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902462-2355, April.
- Knoderer C.A., Dye T.S., and Prouty J.D. (2003) Viewing moments data with LAPMom (optional) and software [Section 4.12 for Vaisala/DWD Moments Software Development program documentation]. Document section prepared for Vaisala Meteorological Systems, Inc., Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-903060-2354, April.
- Knoderer C.A., Nguyen D.T., and Dye T.S. (2003) Data collected by two 915-MHz radar wind profiler and RASS stations at Stow, Massachusetts and East Brunswick, New Jersey for NESCAUM. Final data volume prepared for Northeast States for Coordinated Air Use Management, Boston, MA, by Sonoma Technology, Inc., Petaluma, CA, STI-902270-2350-DV, April.
- MacDonald C.P., Prouty J.D., Miller D.S., Dye T.S., Knoderer C.A., Gray E.A., and Nguyen D.T. (2003) EDAT User Guide [Environmental Data Analysis Tool]. User Guide prepared for Offshore Operators Committee and Minerals Management Service, Department of the Interior, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-999475/998555-2344-UG, April.
- Knoderer C.A., Dye T.S., and Prouty J.D. (2003) Functional design specification document for the LAPMom moments display program. Design specification document prepared for Vaisala, Inc., Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-903060-2333-DSD, March.
- MacDonald C.P., Dye T.S., Anderson C.B., Ludewig S.A., Gray E.A., and Prouty J.D. (2003) Functional design specification document for the PM forecasting web site. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902464-2315-DSD, January.

- Anderson C.B., Dye T.S., Ludewig S.A., Chan A.C., Gray E.A., and Prouty J.D. (2002) Functional design specification document for the AIRNow technical user web site. Design specification document 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-902087-2287-DSD, December.
- Chinkin L., Crews J.M., MacDonald C.P., Funk T.H., Wheeler N.J.M., and Dye T.S. (2002) Preliminary assessment of ozone air quality issues in the Minneapolis/St. Paul region. Report prepared for the Minnesota Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, 901104/901105-2239-RFR2, October.
- Dye T.S., MacDonald C.P., and Miller D.S. (2002) Summary of PM<sub>2.5</sub> forecasting tool development for Pittsburgh, Pennsylvania. Technical memorandum prepared for the Pennsylvania Department of Environmental Protection and Allegheny County Health Department, Pittsburgh, PA, by Sonoma Technology, Inc., Petaluma, CA, STI-901491-2259-TM, September.
- Roberts P.T., Dye T.S., MacDonald C.P., and Hanna S.R. (2002) The boundary layer study in the Western and Central Gulf of Mexico. Revised study plan prepared for Minerals Management Service, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-998551-1870-RSP, September.
- Dye T.S. and Crews J.M. (2002) Development of preliminary methods for sub-daily ozone forecasting in the Columbus, Ohio region. Prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-902230-2247-FR, August.
- Miller D.S., MacDonald C.P., and Dye T.S. (2002) Ozone forecasting tool development to support forecasting for the EPA AIRNow program. Final report prepared for the U.S. Environmental Protection Agency Information Transfer Group, OAQPS, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-901202-2189-FR3, July.
- Knoderer C.A. and Dye T.S. (2002) Draft quality assurance program plan for the NESCAUM radar wind profiler network. Prepared for Northeast States for Coordinated Air Use Management, Inc., Boston, MA, by Sonoma Technology, Inc., Petaluma, CA, STI-902270-2192-DQAPP, May.
- Knoderer C.A. and Dye T.S. (2002) Draft standard operating procedures for servicing the NESCAUM radar wind profiler network. Draft SOP prepared for the Northeast States for Coordinated Air Use Management, Inc., Boston, MA, by Sonoma Technology, Inc., Petaluma, CA, STI-902270-2191-DSOP, May.
- 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.
- Dye T.S., Anderson C.B., Ludewig S.A., and Gray E.A. (2002) Specification document for AIRNow forecast submittal and processing system. Specification document prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902085-2175-SD, April.
- Miller D.S. and Dye T.S. (2002) Ozone forecasting tool user's guide. Prepared for the Information Transfer Group, OAQPS, United States Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-901202-2171-UG, April.

- Knoderer C.A., Anderson C.B., and Dye T.S. (2002) Data collected by four 915-MHz radar wind profiler, RASS, and surface meteorological stations at Bodega Bay, Dublin, San Martin, and Tracy, California, during the summer of 2000 for the Central California Ozone Study. Final data volume prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900176-2070-DV, March.
- Miller D.S., Anderson C.B., Roberts P.T., and Dye T.S. (2001-2002) Profilers and data collection for Breton Aerometric Monitoring Program, phase II. Series of monthly reports for September 2000 through September 2001 prepared for Offshore Operators Committee, New Orleans, LA, and Minerals Management Service, U.S. Department of the Interior, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-999473-2127, October 2001-February 2002.
- Anderson C.B., Gray E.A., Prouty J.D., and Dye T.S. (2001) EPA ozone mapping system redesign - user's manual for MAPCON software. Report prepared for the United States Environmental Protection Agency Office of Air Quality Planning and Standards, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-900094-2105-UM2, November.
- Miller D.S., MacDonald C.P., Dye T.S., and Nguyen D.T. (2001) Memphis ozone forecasting tool development. Presentation prepared for the United States Environmental Protection Agency and Memphis/Shelby County Health Department, Memphis, TN, by Sonoma Technology, Inc., Petaluma, CA, STI-901202-2126, October.
- Knoderer C.A., Thompson B.S., Anderson C.B., and Dye T.S. (2001) Data collected by a 915-MHz radar wind profiler, RASS, and surface meteorological station at San Martin, California, during fall and winter 2001 for the Central California Regional Particulate Air Quality Study. Data volume prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999253-2118-DV, September.
- Funk T.H., Ludewig S.A., and Dye T.S. (2001) Functional design document for the air quality and meteorological information prototype application. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-901280-2117-TM, September.
- Gray E.A., Anderson C.B., and Dye T.S. (2001) Revised database design document for the redesign of EPA's ozone mapping system software. Revised software specifications 2 prepared for the U.S. Environmental Protection Agency, Durham, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-900092-2050-RSS2, August.
- Dye T.S. and Knoderer C.A. (2001) Training materials for the LAP-3000 and LAP-XM version 1.8. Prepared by Sonoma Technology, Inc., Petaluma, CA, STI-901230-2095-TM, July.
- Dye T.S., Anderson C.B., Wheeler N.J.M., and Gray E.A. (2000) Functional design document for the redesign of EPA's ozone mapping system software. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-900092-2031-FR, December 18.
- MacDonald C.P., Narayanan M., Dye T.S., and Roberts P.T. (2000) Summary of data acquisition and validation activities to prepare for developing an AQEWS. Report prepared for Chemonics International, Inc., Washington, DC, by Sonoma Technology, Inc., Petaluma, CA, STI-900442-2019-FR, October.
- Dye T.S., MacDonald C.P., and Roberts P.T. (2000) User's guide for the Air Quality Early Warning System (AQEWS). Prepared for the Egyptian Environmental Affairs Agency, Cairo Egypt by The Cairo Air Improvement Project supported by Chemonics International, Inc., Washington, DC, and Sonoma Technology, Inc., Petaluma, CA, STI-900442-2005-TM, September.

- Knoderer C.A., Anderson C.B., and Dye T.S. (2000) Data collected by a 915-MHz radar profiler, RASS, and surface meteorological station at Owens Lake, California during the winter and spring of 2000. Data volume prepared for Great Basin Unified Air Pollution Control District, Bishop, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900083-1997-DV, July.
- MacDonald C.P., Crews J.M., and Dye T.S. (2000) Northern Sierra District ozone forecasting tools. Final report prepared for Northern Sierra Air Quality Management District, Grass Valley, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999500-1981-FR, June.
- Kwiatkowski J.J., Knoderer C.A., and Dye T.S. (2000) Central California Ozone Study (CCOS) on-site reference manual for radar wind profilers, Radio Acoustic Sounding Systems, and surface meteorological stations. Prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900171-1968-FRM, May.
- Dye T.S. and Fratt D. (2000) Developing an air quality forecasting system. Presented to Cairo AQMD, Egypt by Sonoma Technology, Inc., Petaluma, CA, STI-900210-1969, April.
- MacDonald C.P., Dye T.S., Lilly M.A., and Roberts P.T. (2000) PAMS data analysis for southern California. Volume IV: surface-based mixing heights during three SCOS97 episodes. Report prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Petaluma, CA, STI-997527-1907-DFR, March.
- 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.
- Kwiatkowski J.J., Anderson C.B., Crews J.M., and Dye T.S. (1999) Data collected by a 915-MHz radar profiler, RASS, and surface meteorological station at Trenton, Ohio from August 3 through September 11, 1999. Data volume prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999450-1924-DV, November.
- Kwiatkowski J.J., Hughes G.B., Dye T.S., Anderson C.B., and Hurwitt S.B. (1999) Summary of 8-hr ozone equation development for the air districts of Sacramento, Yolo-Solano, and Placer. Report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998164-1881-FR, May.
- MacDonald C.P., Chinkin L.R., Dye T.S., and Anderson C.B. (1999) Analysis of PAMS data in California Volume I: The use of PAMS radar profiler and RASS data to understand the meteorological processes that influence air quality in selected regions of California. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998391-1888-FR, May.
- Dye T.S. (1999) U.S. Environmental Protection Agency air quality data descriptions. Color brochure prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-999141-1882, May.
- Richards L.W., Dye T.S., Ray S.E., and MacDonald C.P. (1999) Effects of atmospheric dynamics and chemical concentrations on aerosol formation in fog. Report prepared for the San Joaquin Valleywide Air Pollution Study Agency, California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-95093-1859-FR2, April.

- Roberts P.T., Dye T.S., Ray S.E., Anderson J.A., Blumenthal D.L., MacDonald C.P., Main H.H., and Kumar N. (1999) Analysis of data from the 1995 NARSTO-Northeast Study Volume V: three-dimensional analysis of aircraft and upper-air meteorological data. Report prepared for Coordinating Research Council, Atlanta, GA, under subcontract to ENVIRON International Corp., Novato, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-95426-1836-FR, April.
- Kwiatkowski J.J., Hurwitt S.B., and Dye T.S. (1999) Evaluation of the surrogate method used to estimate 8-hr ozone concentrations. Technical memorandum prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998530-1868-TM, March.
- Anderson C.B. and Dye T.S. (1999) Accuracy of forecast ozone maps. Technical memorandum prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998530-1866-TM, February.
- Kwiatkowski J.J., Dye T.S., and Ray S.E. (1999) Approaches to mapping ozone in data-sparse regions. Technical memorandum prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998530-1864-TM, February.
- Kwiatkowski J.J., Anderson C.B., Ray S.E., and Dye T.S. (1999) Data collected by a 915-MHz radar profiler, RASS, and surface meteorological station at San Antonio, Texas during the summer and fall of 1998. Report prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998372-1857-DV, January.
- Dye T.S., MacDonald C.P., and Anderson C.B. (1998) Guidelines for developing an ozone forecasting program. Report 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-998424-1852-DFR, December.
- Dye T.S., Kwiatkowski J.J., Anderson C.B., and Ray S.E. (1998) Data collected by a 915-MHz radar profiler, RASS, and surface meteorological station at Florence, Arizona during the summer of 1998. Report prepared for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-998213-1848-DV, December.
- Dye T.S., Kwiatkowski J.J., Anderson C.B., and Ray S.E. (1998) Data collected by a 915-MHz radar profiler, RASS, and surface meteorological station at Phoenix, Arizona during the summer of 1998. Report prepared for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-998213-1849-DV, December.
- Ray S.E., Anderson C.B., and Dye T.S. (1998) Summary of ozone forecasting for the air districts of Sacramento, Yolo-Solano, and Placer for the 1998 season. Report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998161-1845-FR, December.
- Kwiatkowski J.J., MacDonald C.P., and Dye T.S. (1998) SCAQMD LAX/ONT database documentation. Report prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997524-1842-DB, November.
- Ray S.E., Anderson C.B., Kwiatkowski J.J., and Dye T.S. (1998) Data collected by a 915-MHz radar profiler, RASS, and surface met station at Rutgers University during the summer of 1998. Report prepared for Rutgers University, New Brunswick, NJ, by Sonoma Technology, Inc., Petaluma, CA, STI-998283-1841-DV, November.

- Dye T.S., Reiss R., Kwiatkowski J.J., MacDonald C.P., Main H.H., and Roberts P.T. (1998) 8-hr and 1-hr ozone exceedances in the NESCAUM region (1993-1997). Report prepared for the Northeast States for Coordinated Air Use Management, Boston, MA, by Sonoma Technology, Inc., Petaluma, CA, STI-998100-1810-FR, September.
- Dye T.S. (1998) Summary of ozone mapping coordination with weather service providers. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998180-1831-FR, July.
- Dye T.S., Kwiatkowski J.J., MacDonald C.P., Ray S.E., Chinkin L.R., and Lindsey C.G. (1998) Measurement methods validation: adequacy and validation of meteorological measurements aloft during IMS95. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997218-1766-FR, July.
- Dye T.S., MacDonald C.P., and Roberts P.T. (1998) Mixing depth structure and evolution as diagnosed from upper-air meteorological data collected during two regional air quality studies. Paper prepared for presentation at the *Air and Waste Management Association 1998 Annual Meeting and Exhibition, San Diego, CA, June 14-18* (STI-1783).
- MacDonald C.P., Roberts P.T., Main H.H., and Dye T.S. (1998) Phenomena that influence high ozone concentrations in the Paso del Norte area. Paper prepared for presentation at the *Air and Waste Management Association 1998 Annual Meeting and Exhibition, San Diego, CA, June 14-18* (STI-1784).
- Roberts P.T., Main H.H., Dye T.S., Lurmann F.W., Chinkin L.R., Stoeckenius T., and Fujita E. (1998) Photochemical assessment monitoring stations (PAMS) data analysis for southern California: work plan. Work plan prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997520-1799-WP, March.
- Ray S.E., Dye T.S., Kwiatkowski J.J., and Anderson C.B. (1998) Data collected by a network of 915-MHz radar profilers and surface meteorological stations during the 1997 NARSTO-NE study. Data volume prepared for Radian International LLC, Austin, TX, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997262-1780-DV, EPRI Research Project W09108-03, April.
- Blumenthal D.L., Kumar N., Chinkin L.R., Dye T.S., Roberts P.T., and Lurmann F.W. (1998) Nitrogen oxides transport from La Cygne Station, KS: a study for assessing its influence on urban ozone. Final report prepared for La Cygne Study Steering Committee by Sonoma Technology, Inc., Petaluma, CA, STI-997380-1762-FR, February.
- Dye T.S. and Kwiatkowski J.J. (1998) Training materials for the LAP-3000 and Gateway version 1.5. Training manual prepared by Sonoma Technology, Inc., Santa Rosa, CA, STI-997290-1779-TM, February.
- Dye T.S., Ray S.E., MacDonald C.P., Kwiatkowski J.J., Hurwitt S., and Chinkin L.R. (1997) Summary of ozone forecasting for the air districts of Sacramento, Yolo-Solano, and Placer for the 1997 season. Final report prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997122-1768-FR, December.
- MacDonald C.P. and Dye T.S. (1998) Volume II: evaluation of mixing depths computed from radar wind profilers and Radio Acoustic Sounding Systems. Final report prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997218-1764-FR, July.
- Blumenthal D.L., Roberts P.T., Chinkin L.R., Dye T.S., and Kwiatkowski J.J. (1997) An ozone scoping study for the Kansas City area. Prepared for consideration by The NO<sub>x</sub> Steering Committee, Environment Group, Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997380-1742- WP1.1, September.

- Roberts P.T., MacDonald C.P., Main H.H., Dye T.S., Coe D., and Haste T.L. (1997) Analysis of meteorological and air quality data for the 1996 Paso del Norte ozone study. Final report prepared for U.S. Environmental Protection Agency, Region 6, Dallas, TX, under subcontract to SAIC, McLean, VA by Sonoma Technology, Inc., Santa Rosa, CA, STI-997330-1754-FR, EPA Contract No. 68-D3-0030, Work Assignments III-102 and III-130, September.
- Lindsey C.G., Ray S.E., Dye T.S., Arthur M., Roberts P.T., and Stuart C. (1997) Data collected by 915-MHz radar profilers and surface meteorological stations during the 1996 Paso Del Norte ozone study. Data volume prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996293-1729-DV, EPA Work Assignment III-101, Contract No. 68-D3-0030, July.
- MacDonald C.P., Dye T.S., and Chinkin L.R. (1997) Forecasting guidelines for winds and ozone air quality in the Sacramento Region. Technical memorandum prepared for the Sacramento Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997121-1734-TM, June.
- Sonoma Technology, Inc. (1997) On-site manual for a LAP<sup>TM</sup>-3000 and a surface meteorological tower. 1997 Southern California Ozone Study-North American Research Strategy for Tropospheric Ozone (SCOS97-NARSTO). Version 1.0. Prepared by Sonoma Technology, Inc., Santa Rosa, CA, STI-997171-1731, June.
- Ray S.E., Dye T.S., Lindsey C.G., and Arthur M. (1997a) Data collected by a network of 915-MHz radar profilers and surface meteorological stations during the 1995 NARSTO-Northeast Study. Data volume prepared for Radian International LLC, Austin, TX, by Sonoma Technology, Inc., Santa Rosa, CA, EPRI Research Project W09108-03, STI-95103-1579-DV, May.
- Ray S.E., Dye T.S., Lindsey C.G., and Arthur M. (1997b) Data collected by a network of 915-MHz radar profilers and surface meteorological stations during the 1996 NARSTO-Northeast study. Report prepared for Radian International LLC, Austin, TX, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996112-1723-DV, May.
- Blumenthal D.L., Lurmann F.W., Kumar N., Dye T.S., Ray S.E., Korc M.E., Londergan R., and Moore G. (1997) Assessment of transport and mixing and OTAG model performance for Northeast U.S. ozone episodes. Summary of results. Report prepared for Ozone Transport Assessment Group, Air Quality Analysis Workgroup by Sonoma Technology, Inc., Santa Rosa, CA, and Earth Tech, Concord, MA, STI-996133-1710/1716-S, March.
- Ray S.E., Korc M.E., Byars M.S., Dye T.S., Lindsey C.G., Haste T.L., and Roberts P.T. (1997) Analysis of nocturnal low-level jets in the Northeastern United States during the summer of 1995. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996440-1706-FR, February.
- Dye T.S., Ray S.E., Lindsey C.G., Arthur M., and Chinkin L.R. (1996) Summary of ozone forecasting and equation development for the air districts of Sacramento, Yolo-Solano, and Placer. Vol. I: ozone forecasting. Vol. II: equation development. Final report prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996210-1701-FR, December.
- Dye T.S., Lindsey C.G., Arthur M., and Ray S.E. (1996) Training materials for the LAP-3000 and Gateway. Training manual prepared by Sonoma Technology, Inc., Santa Rosa, CA, STI-996390-1611-TM, November.
- Richards L.W., Dye T.S., Arthur M., and Byars M.S. (1996) Analysis of ASOS data for visibility purposes. Final report prepared for Systems Applications International, San Rafael, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996231-1610-FR, EPA WA 2-4, Contract No. 63D30064, September.

- Roberts P.T., Coe D.L., Dye T.S., Ray S.E., and Arthur M. (1996) Summary of measurements obtained during the 1996 Paso Del Norte Ozone Study. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, under subcontract to Science Applications International Corporation, Durham, NC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996191-1603-FR, September.
- Chinkin L.R., Reiss R., Eisinger D.S., Dye T.S., and Jones C.M. (1996) Ozone exceedance data analysis: representativeness of 1995. Phase I. Final report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996031-1574-FR, August.
- Dye T.S., Lindsey C.G., and Arthur M. (1996) Training materials for LAP-3000 operations and data processing. Training manual prepared by Sonoma Technology, Inc., Santa Rosa, CA, STI-95086-1572-TM, March.
- Lindsey C.G., Dye T.S., and Baxter R.A. (1995) Draft guidelines for the quality assurance and management of PAMS upper-air meteorological data. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, Work assignment 10-95, EPA Contract No. 68D30020, STI-94611-1556-FR, December.
- Blumenthal D.L., Lindsey C.G., Dye T.S., Main H.H., Korc M.E., Roberts P.T., Arthur M., Ray S.E., and Blanchard C.L. (1995) Ozone episodes in the Northeastern U.S.: observations during 1994. Final report prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-94362-1511-FR, September.
- Dye T.S., Lindsey C.G., Ray S.E., Arthur M., and Saydah G.R. (1995) Data collected by a network of 915-MHz radar profilers and surface meteorological stations during the 1995 NARSTO-Northeast Study. Level 1.0 data for June 1995. Data volume prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95103-1533-DV, August.
- Haney J.L., Lolk N.K., Myers T.C., Causley M.C., Steiner C.K., Gardner L., Whitten G.Z., Douglas S.G., Burton C.S., Roberts P.T., Dye T.S., Korc M.E., Lindsey C.G., Main H.H., and Ray S.E. (1995) Gulf of Mexico Air Quality Study. Volume 1: summary of data analysis and modeling. Final report prepared for U.S. Department of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA, by Systems Applications International, San Rafael, CA and Sonoma Technology, Inc., Santa Rosa, CA, OCS Study MMS-95-0038, (SYSAPP-95/013d), August.
- Roberts P.T., Lindsey C.G., Dye T.S., Main H.H., Korc M.E., Ray S.E., Arthur M., and Schoel B.M. (1995) Gulf of Mexico Air Quality Study. Volume 2: data analysis appendices A-M. Draft final report prepared for U.S. Department of the Interior, MMS, Gulf of Mexico OCS Region, New Orleans, LA, and Systems Applications International, San Rafael, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92091-1512-DV (SYSAPP-95/013d, OCS Study, MMS 94-0046), March.
- Dye T.S. and Lindsey C.G. (1995) Results of a pilot study to evaluate high-time resolution wind profiles from 915-MHz radar profiler data. February 9 letter report to Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Santa Rosa, CA, STI-93311-1506.
- Dye T.S., Schoell B.M., Lindsey C.G., Ray S.E., Saydah G.R., and Stoelting M.W. (1995) Data collected by a network of 915-MHz radar profilers and surface meteorological stations during the 1994 Northeast Air Quality Field Measurements Program. Data volume prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94342-1452-DV, January.
- Chinkin L.R., Korc M.E., Main H.H., Roberts P.T., and Dye T.S. (1994) Scoping study report for the Wasatch Front Ozone Study. Report prepared for Utah Division of Air Quality, Salt Lake City, UT, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94411-1430, September.

- Dye T.S. and Lindsey C.G. (1994) Lake Michigan Ozone Study upper air data plots. Data volume prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92022-1432-DV, September.
- Roberts P.T., Dye T.S., Korc M.E., and Main H.H. (1994) Air quality data analysis for the 1991 Lake Michigan Ozone Study. Final report prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92022-1410-FR, September.
- Dye T.S., Lindsey C.G., Schoell B.M., Rosen J.N., and Jones C.M. (1994) Upper air data collected by 915-MHz radar wind profilers and radio acoustic sounding systems during the 1993 Gulf of Mexico Air Quality Study and the Coastal Oxidant Assessment in Southeast Texas Study. Data volume prepared for Systems Applications International, San Rafael, CA, Minerals Management Service, U.S. Department of Interior, New Orleans, LA, and Texas Natural Resource Conservation Commission by Sonoma Technology, Inc., Santa Rosa, CA, STI-92084/93320-1408-DV, March.
- Schoell B.M., Lindsey C.G., Dye T.S., Prouty J.D., and Rosen J.N. (1994) Upper air data collected by STI on Chevron's Garden Banks 236A platform during the 1993 Gulf of Mexico Air Quality Study. Data volume prepared for Systems Applications International, San Rafael, CA, and Minerals Management Service, U.S. Department of Interior, New Orleans, LA, STI-92064-1407-DV, March.
- Schoell B.M., Lindsey C.G., Dye T.S., Rosen J.N., Prouty J.D., and Stoelting M.W. (1994) Data collected by a network of surface meteorological monitoring stations during the 1993 Gulf of Mexico Air Quality Study. Data volume prepared for Systems Applications International, San Rafael, CA, and Minerals Management Service, U.S. Department of Interior, New Orleans, LA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92064-1409-DV, March.
- Dye T.S., Lindsey C.G., and Prouty J.D. (1993) LAP<sup>TM</sup> 3000 data workbook version 1.1. Report prepared by Sonoma Technology, Inc., Santa Rosa, CA STI-93320-1376-DW, October.
- Lindsey C.G., Dye T.S., and Schoell B.M. (1993) Upper air data collected by STI during the 1993 Southeast Michigan Ozone Study (SEMOS). Data volume prepared for ENSR Consulting and Engineering, Glastonbury, CT, by Sonoma Technology, Inc., Santa Rosa, CA, STI-93081-1374-DV, October.
- Reynolds S.D., Tesche T.W., Dye T., Roberts P., Franzon D.E., Chinkin L.R., and Reid S.B. (1993) Assessment of planned northeast ozone transport region modeling activities. Report prepared by the American Petroleum Institute, Health and Environmental Sciences Department, Washington, DC, API No. 4563, July.
- Blumenthal D.L., Roberts P.T., Lurmann F.W., Lindsey C.G., Dye T.S., Reynolds S.D., and Roth P.M. (1993) Preliminary scope for a Gulf Coast Ozone Study. Final report prepared for the American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA and Envair, San Rafael, CA, STI-91014-1202-FR, June.
- Roberts P.T. and Dye T.S. (1993) Gulf of Mexico air quality study forecasting and decision-making protocol. Draft report prepared for Systems Applications International, San Rafael, CA, and Minerals Management Service, U.S. Department of Interior, New Orleans, LA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92040-1361-DP, Contract No. 1435000130604, April.
- Dye T.S. and Lindsey C.G. (1993) Evaluation of the performance of a 915-MHz radar profiler and RASS during the eastern Lake Ontario Onshore Flow Field Study. Final report prepared for Galson Corporation by Sonoma Technology, Inc., Santa Rosa, CA, STI-91150-1235-FR2, January.
- Lindsey C.G. and Dye T.S. (1992) An intercomparison strategy for the ARM program's 915 MHz LAP-3000 radar profiler. Final report prepared for Battelle Pacific Northwest Laboratories, Richland, WA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92220-1226-FR, October.

- Dye T.S. and Roberts P.T. (1992) Lake Michigan Ozone Study data analysis 1991 surface winds preliminary plots (Episode 1: 6/24/91-6/30/91, Episode 2: 7/15/91-7/20/91, Episode 3: 8/23/91-8/27/91, Episode 4: 6/19/91-6/22/91). Reports prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90213-1215-A,B,C,D, May.
- Dye T.S. and Roberts P.T. (1992) Lake Michigan Ozone Study data analysis 1991 surface ozone concentrations preliminary plots (Episode 1: 6/24/91-6/30/91, Episode 2: 7/15/91-7/20/91, Episode 3: 8/23/91-8/27/91, Episode 4: 6/19/91-6/22/91). Reports prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90213-1214-A,B,C,D, May.
- Blumenthal D.L., Dye T.S., Lehrman D.E., Zeldin M.E., and Bregman L.D. (1992) Technology survey and scoping recommendations for an upper air monitoring network for the South Coast air basin. Final report prepared for the South Coast Air Quality Management District, Diamond Bar, CA by Sonoma Technology, Inc., Santa Rosa, CA, STI-99060-1025-FR, April.
- Dye T.S. and Lindsey C.G. (1991) Lake Michigan Ozone Study upper air data volume LAP 3000 wind and RASS virtual temperature data level 1.0 data 6/25/91-6/28/91, 7/16/91-7/18/91, 6/18/91. Data volume prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-91043-1175-DV, December.
- Lindsey C.G., Chen J., Dye T.S., and Whiteman C.D. (1991) Section 6: meteorological analyses, Navajo Generating Station Visibility Study. Richards L.W., Blanchard C.L., and Blumenthal D.L., eds. Final report prepared for Salt River Project, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90200-1124-FR, November.
- Roberts P.T., Dye T.S., Hanna S.R., and Haga C.M. (1991) Preliminary data analysis for the Lake Michigan Ozone Study. Final report prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, and Sigma Research Corporation, Concord, MA, STI-90212-1157-FR, June.
- Lindsey C.G., Chen J., and Dye T. (1991) Meteorological transport analyses performed by STI for the 1990 Navajo Generating Station visibility study data analysis. Data volume prepared for Salt River Project, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90206-1146-DV, April.
- Roberts P.T. and Dye T.S. (1991) Lake Michigan Ozone Study data analysis preliminary plots surface ozone concentrations (7/2/90-7/5/90, 7/16/90-7/19/90, 7/25/90-7/29/90; 7/20/87-7/24/87), surface winds (7/2/90-7/5/90; 7/16/90-7/19/90; 7/25/90-7/29/90; 7/20/87-7/24/87), 1990 surface and aloft ozone concentrations (7/2/90-7/4/90 and 7/16/90-7/19/90), and 2DDP-surface and aloft winds (7/2/90-7/4/90 and 7/16/90-7/19/90). Reports prepared for the Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90212-1031-A,B,C,D,E,F,G,H, February.
- Dye T.S., Miller D.S., MacDonald, C.P. (2002) Summary of PM<sub>2.5</sub> forecasting program development and operations for Salt Lake City, Utah, during winter 2002. Technical memorandum prepared for Utah Department of Environmental Quality, Salt Lake City, UT, by Sonoma Technology, Inc., Petaluma, CA, STI-901491-2243-TM, August.
- Dye T.S., MacDonald C.P., and Miller D.S. (2002) Summary of PM<sub>2.5</sub> forecasting tool development for Pittsburgh, Pennsylvania. Technical memorandum prepared for the Pennsylvania Department of Environmental Protection, and the Allegheny County Health Department, Pittsburg, PA, by Sonoma Technology, Inc., Petaluma, CA, STI-901491-2259-TM, September 30.

## Web Pages

Dye T.S. (2000) Ozone map and forecast weather service provider coordination. Web page prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-900098-1977-WEB, May.

Dye T.S. and Anderson C.B. (2002) Summary of an ozone forecasting program in the Sacramento metropolitan area. Web page prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900151-2034-WEB, January.