

Journal Articles

- Chan A.C., Colucci S.J., and DeGaetano A.T. (2004) Predicting East Coast winter storminess [Papers of Note]. *Bull. Am. Meteorol. Soc.* **85** (1), 33-34.
- Chan A.C., Colucci S.J., and DeGaetano A.T. (2003) Predicting east coast winter storm frequencies from midtropospheric geopotential height patterns. *Weather and Forecasting*, **18** (6), 1177-1191.
- Key J. and Chan A.C. (1999) Multidecadal global and regional trends in 1000mb and 500mb cyclone frequencies. *Geophys. Res. Lett.* **26** (14), 2053-2056.

Meeting Presentations and Conference Proceedings

- 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* (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* (STI-620000-3680).
- Johnson J.A. and Chan A.C. (2009) Air quality outreach materials. Presented at *Comunicando Información sobre la Calidad del Aire en Centroamérica, City of Knowledge, Panama, September 10-11* (STI-908078-3673).
- Johnson J.A. and Chan A.C. (2009) Communicating air quality information. Presented at *Comunicando Información sobre la Calidad del Aire en Centroamérica, City of Knowledge, Panama, September 10-11* (STI-908078-3674).
- Johnson J.A. and Chan A.C. (2009) What is an air quality action day? Presented at *Comunicando Información sobre la Calidad del Aire en Centroamérica, City of Knowledge, Panama, September 10-11* (STI-908078-3675).
- 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.
- Landreneau J.V., Ray A.E., Hafner H.R., Roberts P.T., Chan A., Jackson J.A., and Zell E. (2009) Designing an air quality monitoring network for urban centers. Training course presented at the *Curso Regional sobre Aseguramiento de la Calidad de las Mediciones de Inmisiones y Emisiones de Contaminantes de Aire Universidad Nacional, Costa Rica, March 30–April 3, 2009*, by Sonoma Technology, Inc., Petaluma, CA, and Battelle Memorial Institute, Arlington, VA (STI-908078.03).
- Miller D.S., Pasch A.N., Chan A.C., and Dye T.S. (2009) Real-time PM_{2.5} reporting. Presented at the *National Air Quality Conference, Dallas, TX, March 3*, by Sonoma Technology, Inc., Petaluma, CA (STI-3549).
- Sullivan D., Chan A., Knoderer C., Raffuse S., Wheeler N., and Craig K. (2008) Emergency smoke response systems: air quality forecasts and monitoring during the 2008 California wildfires. Presented at the *Pacific Coast Fire Conference, San Diego, CA, December 3* by Sonoma Technology, Inc., Petaluma, CA; USFS AirFire Team, Seattle, WA; Desert Research Institute, Reno, NV; and USFS Region 5, CA (STI-3515).

- 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).
- 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.
- Chan A.C. and Johnson J.A. (2008) Air quality forecasting. Presentation made to the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Petaluma, CA, STI-3439, September 11.
- 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., Chan A.C., and Dye T.S. (2008) Real-time PM_{2.5} 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., 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).
- Chan A.C. (2007) AIRNow overview. Presentation prepared for the Clark County Department of Air Quality and Environmental Management and the Tribal Air Monitoring Support Steering Committee Meeting, Las Vegas, NV, by the AIRNow Data Management Center, Sonoma Technology, Inc., Petaluma, CA, STI-905401.02-3249, October 25.
- Chan A.C. (2007) EnviroFlash. Presentation prepared for the Clark County Department of Air Quality and Environmental Management, Las Vegas, NV, by the AIRNow Data Management Center, Sonoma Technology, Inc., Petaluma, CA, STI-905404.07-3250, October 25.
- MacDonald C.P., Dye T.S., and Chan A.C. (2007) Continuous vs. filter measurements of PM_{2.5} 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.
- 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., 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., 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).
- 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., 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.
- Anderson C.B., Chan A.C., and Conatser N.D. (2006) The future of AIRNow-Tech. 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 (STI-2896).
- 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).
- Chan A.C., Miller D.S., Conatser N.D., and Anderson C.B. (2005) Imperial Valley ozone forecasting end of 2005 season report. Presentation prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-904460.03-2848, November.

- 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).
- 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.
- 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).
- MacDonald C.P., Miller D.S., Chan A.C., Knoderer C.A., Nolan S., Jackson S., Bridgers G.M., Schranz S., Seybold M., Woodman M., Ryan W.F., Shipp E., and Ferreria S. (2005) Short course on air quality forecasting. Presented at *The 2005 National Air Quality Conference: Quality of Air Means Quality of Life, San Francisco, CA, February 13* (STI-902476-2697).
- Chan A.C. and Nguyen D.T. (2005) Data profiling summary for 2004-05. Poster prepared for 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-2688).
- Wayland R.A., White J.E., Lengyel C.E., and Chan A.C. (2005) Evaluating state/local forecast performance: lessons learned and future direction. 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-905101.03-2690).
- 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.
- 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.
- Chan A.C. (2004) AIRNow real-time air quality system. Presented at *Beijing International Environment Forum, September 14-15* by Sonoma Technology, Inc., Petaluma, CA (STI-902116-2605).
- 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).
- Chan A.C. and Anderson C.B. (2004) Data made easy with AIRNow-Tech. Presented at the *U.S. Environmental Protection Agency's 2004 National Air Quality Conference: Your Forecast to Breathe By, Baltimore, MD, February 22* (STI-902102-2494).

- Anderson C.B. and Chan A.C. (2004) AIRNow issues and products. Presented at the *U.S. Environmental Protection Agency's 2004 National Air Quality Conference: Your Forecast to Breathe By*, Baltimore, MD, February 22 (STI-902102-2495).
- 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_{2.5} 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).
- 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).
- 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).
- 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).
- 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. Presented to the Air Districts of the Sacramento Region, Air Pollution Control Officers Meeting, Sacramento, CA, December 15 (903213-2455).
- 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.
- 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, 2003 (STI-902082-2340).
- Funk T.H., Dye T.S., Chan A.C., Anderson C.B., and Penfold B.M. (2003) Mapping PM_{2.5} - methods and uncertainties. Presented at *U.S. Environmental Protection Agency's National Air Quality Conference*, San Antonio, TX, February 2-5, 2003 (STI-902090-2324).
- 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).
- Dye T.S., Anderson C.B., Chan A.C., and MacDonald C.P. (2002) August mega-ozone episode AIRNow PM_{2.5} forecasting media coverage. Presented at the *Sacramento Meteorological Air Quality Management District Mid-Ozone Season Meeting*, Sacramento, CA, September 12 (900161-2343).

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., 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.
- 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.
- 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.
- U.S. Environmental Protection Agency (2003) Guidelines for developing an air quality (ozone and PM_{2.5}) 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.
- Chan A.C., MacDonald C.P., and Dye T.S. (2003) Analysis of the February 25-March 2, 2003 PM_{2.5} episode over the Midwest. Report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-902462-2355, April.
- 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.
- 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. Prepared for the Minneapolis Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-901102-2272, October.