

Journal Articles

- Pasch A.N., Boyer D., MacDonald C.P., and Knoderer C.A. (2008) Assessment of the usefulness of radar wind profiler data for meteorological model predictions in eastern Texas. *J. Geophys. Res.* (submitted).
- Hanna S.R., MacDonald C.P., Lilly M., Knoderer C.A., and Huang C.H. (2006) Analysis of three years of boundary layer observations over the Gulf of Mexico and its shores. *Estuarine, Coastal and Shelf Science* 70, 541-550.

Meeting Presentations and Conference Proceedings

- Alrick D.M., Knoderer C., and MacDonald C. (2010) MOS accuracy in Sacramento air pollution forecasting. Presentation made to the Sacramento Metropolitan Air Quality Management District by Sonoma Technology, Inc., Petaluma, CA, STI 909004-3826, March.
- Sullivan D., Chan A., Knoderer C., Raffuse S., Wheeler N., and Craig K. (2008) Emergency smoke response systems: air quality forecasts and monitoring during the 2008 California wildfires. Presented at the *Pacific Coast Fire Conference, San Diego, CA, December 3* by Sonoma Technology, Inc., Petaluma, CA; USFS AirFire Team, Seattle, WA; Desert Research Institute, Reno, NV; and USFS Region 5, CA (STI-3515).
- Miller D.S. and Knoderer C.A. (2008) 2008 ozone forecasting and outreach end-of-season report. Presentation made to the Air Districts of the Sacramento Region and Air Pollution Control Officers, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906064.01-3527, December.
- Knoderer C.A., MacDonald C.P., Zahn P.H., and Gilroy M. (2008) Remote sensing meteorological instrumentation to support photochemical assessment monitoring stations (PAMS). Presented at the *Air & Waste Management Association Symposium on Air Quality Measurement Methods and Technology, Chapel Hill, NC, November* by Sonoma Technology, Petaluma, CA (STI-3416).
- MacDonald C.P., Knoderer C.A., Bratek S.A., and Miller D.S. (2008) Sacramento Winter PM_{2.5} Forecasting Evaluation. Presented to *Sacramento Metropolitan Air Quality Management District, Sacramento, CA, September 29* by Sonoma Technology, Inc. (STI-906064.04-3449).
- MacDonald C.P., Knoderer C.A., and Bratek S.A. (2008) TexAQS-II radar wind profiler analyses. Presented to the *Texas Commission on Environmental Quality, Austin, TX, March 26* by Sonoma Technology, Petaluma, CA (STI-907101-3333).
- Knoderer C.A., MacDonald C.P., and Zahn P.H. (2007) The relationship among air quality, mixing layer heights, and winds observed during the TexAQS-II field study - preliminary results. Poster presented at the *Fall 2007 American Geophysical Union Conference, San Francisco, CA, December 14*, by Sonoma Technology, Inc., Petaluma, CA (STI-3220).
- MacDonald C.P., Dye T.S., and Knoderer C.A. (2007) Using radar wind profilers for air quality applications. Presentation prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-3248, October 18.
- MacDonald C.P. and Knoderer C.A. (2007) Wind profiler applications: air quality forecasting, analysis, and modeling. Presentation for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-906060-3146, March 14.
- Knoderer C.A. (2007) LAPLoad software. Presentation for the Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-906060.01-3135, March 13.

- MacDonald C.P., Knoderer C.A., Dye T.S., and Chan A.C. (2005) Vaisala wind profiler software, data validation, and data analysis training. Training manual prepared for Vaisala, Inc., Louisville, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-905058-2865, December.
- MacDonald C.P., Miller D.S., Chan A.C., Knoderer C.A., Nolan S., Jackson S., Bridgers G.M., Schranz S., Seybold M., Woodman M., Ryan W.F., Shipp E., and Ferreria S. (2005) Short course on air quality forecasting. Presented at *The 2005 National Air Quality Conference: Quality of Air Means Quality of Life*, San Francisco, CA, February 13 (STI-902476-2697).
- Knoderer C.A., MacDonald C.P., Lilly M.R., Hanna S., and Huang C. (2004) Comparison of EDAS predictions and RWP data collected over the Western and Central Gulf of Mexico. Presented at *The Seventh International Marine Environmental Modeling Seminar, Special Session: Modeling Coastal Meteorology*, Washington, DC, October 19-21 (STI-2629).
- MacDonald C.P., Lilly M.R., Knoderer C.A., Hanna S., and Huang C. (2004) Application of the COARE algorithm in the Western and Central Gulf of Mexico. Presented at *The Seventh International Marine Environmental Modeling Seminar, Special Session: Modeling Coastal Meteorology*, Washington, DC, October 19-21 (STI-2630).
- 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 (STI-904012-2627).
- Knoderer, C.A., Raffuse, S.M., Funk, T.H., Dye, T.S. (2004) Surface and upper-air meteorological representativeness in the San Joaquin Valley. Presented at the CRPAQS Data Analysis Workshop, Sacramento, CA, March 9-10 (STI-902324-2497).
- MacDonald C.P., Roberts P.T., Knoderer C.A., Miller D.S., Lilly M.R., and Hanna S.R. (2003) Boundary layer study in the Western and Central Gulf of Mexico. Presentation at the final meeting of the Technical Review Group, Minerals Management Group, New Orleans, LA, STI-998555-2265, October.
- Knoderer C.A., Lilly M.R., MacDonald C.P., and Dye T.S. (2003) Comparisons of radar wind profiler and EDAS winds in the Gulf of Mexico. Poster presented at *ISTP 2003: 6th International Symposium on Tropospheric Profiling: Needs and Technologies*, Leipzig, Germany, September 14-20 (STI-2362, conference poster 9.7).
- Brown S.G., Knoderer C.A., and Hafner H.R. (2003) Meteorological effects on air toxics concentrations in Detroit. Presented at the *National Workshop on Air Toxics Monitoring*, Chicago, IL, May 13-14.
- Knoderer C.A. and Dye T.S. (2003) Data collection and validation. Presented at the *American Meteorological Society Short Course on the Fundamentals of Boundary Layer Wind and Temperature Profiling Using Radar and Acoustic Techniques*, Long Beach, CA, February 8 (STI-2276).
- MacDonald C.P., Roberts P.T., Knoderer C.A., Miller D.S., and Hanna S.R. (2003) Boundary layer study in the Western and Central Gulf of Mexico. Presented at the *American Meteorological Society Annual Meeting 12th Conference on Interactions of the Sea and Atmosphere*, Long Beach, CA, February 9-13 (STI-998555-2321).
- 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.
- MacDonald C.P., Roberts P.T., Knoderer C.A., and Hanna S. (2002) Estimation of scaling parameters and energy fluxes over the Gulf of Mexico using new observations and using the COARE program. Presented at the *12th Conference on Interaction of the Sea and Atmosphere, 2003 American Meteorological Society Annual Meeting*, Long Beach, CA, February 9-13 (STI-998555-2219).

- Roberts P.T., Brown S.G., Main H.H., Buhr M.P., Hyslop N.P., MacDonald C.P., Roney J., Knoderer C.A., and Miller D. (2002) Preliminary VOC, olefin, and conceptual model results for Houston. Presented to Texas Natural Resource Conservation Commission, Austin, TX, April 4.
- 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 U.S. Environmental Protection Agency's National Air Quality Conference: Forecasting and Public Outreach, San Francisco, CA, February 4-6 (STI-2148).
- MacDonald C.P., Buhr M.P., Knoderer C.A., and Roberts P.T. (2002) Three-dimensional distribution of ozone and ozone precursors observed from the Baylor University aircraft. Presented at the *American Meteorological Society Annual Meeting, Orlando, FL, January 17* (STI-2154).
- MacDonald C.P., Roberts P.T., Knoderer C.A., and Hanna S.R. (2001) Estimation of boundary layer fluxes and profiles over the Gulf of Mexico using new observations and using the COARE program. Paper no. 1.7 presented at the *Fourth Conference on Coastal Atmospheric and Oceanic Prediction and Processes, St. Pete's Beach, FL, November 6-9* (STI-998553-2104).
- 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.
- Dye T.S., Anderson C.B., MacDonald C.P., Knoderer C.A., Miller D.S., Ludewig S.A., and Thompson B.S. (2001) Summary of 2001 ozone forecasting, ozone mapping, and AirAlert. Presentation made to Air Districts of the Sacramento Region, APCO Meeting, STI-900151-2133, December 6.
- 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.
- 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.

Formal Reports

- Knoderer C.A., MacDonald C.P., and Roberts P.T. (2010) Data collected by a 9150MHz RWP, RASS, mini-sodar, and surface meteorological station in Cleveland Ohio July 24, 2009–March 15, 2010. Final report prepared for Alion Science and Technology, Durham, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-909032-3885-FR2, June 30.
- Knoderer C.A. and MacDonald C.P. (2010) Delivery of quality controlled surface meteorological data collected at the Geysers Geothermal Field from June 3, 2008, through December 15, 2009. Technical memorandum Prepared for Ram Power, Inc., STI-908033-3834, April.
- Knoderer C., MacDonald C., and Pasch A. (2010) Summary of data quality control of data collected by a 915-MHz RWP, RASS, miniSodar, and surface meteorological station in Cleveland, Ohio. Technical memorandum prepared for Alion Science and Technology, Durham, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-909032-3741-TM-Revised, January.
- Sonoma Technology, Inc. (2009) Standard operating procedures for operating a radar wind profiler, mini-sodar, and meteorological tower, version 1.1. STI-909032-3652, June.
- MacDonald C.P. and Knoderer C.A. (2008) Spatial and temporal characteristics of winds and mixing during TEXAQS-II. Final report prepared for Texas A&M University, College Station, TX by Sonoma Technology, Petaluma, CA, STI-907101-3344-FR, April.

- Blumenthal D.L., MacDonald C.P., and Knoderer C.A. (2007) Turbulence felt in a light helicopter caused by a power plant thermal plume. Final report prepared for Downey Brand LLP, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, 907059-3269-FR, December.
- Knoderer C.A. and MacDonald C.P. (2007) TEXAQS-II radar wind profiler, Radio Acoustic Sounding System, solar, and lidar data quality control and mixing height derivation. Final report prepared for Texas A&M University, College Station, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-907100-3215-FR, August.
- Knoderer C.A. and MacDonald C.P. (2007) Summary of data collected by a 915-MHz RWP, RASS, mini-sodar, and surface meteorological station at Boulder, Wyoming, from February 1 through March 31, 2007. Technical memorandum prepared for ENVIRON International, Inc., Novato, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-907002.04-3183-TM, June.
- MacDonald C.P., Knoderer C.A., and Blumenthal D.L. (2006) Development and implementation of offshore meteorological systems to support TexAQS-II. Final report prepared for the Texas Commission on Environmental Quality, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-905060-2993-FR, June.
- Miller D.S., MacDonald C.P., and Knoderer C.A. (2006) Birmingham PM_{2.5} forecasting tool development training manual. Prepared for the Jefferson County Department of Health, Birmingham, AL, by Sonoma Technology, Inc., Petaluma, CA, STI-905046.02-2932, March.
- Knoderer C. and MacDonald C. (2005) Summary of data collected by a 915-MHz radar wind profiler, RASS, and surface meteorological station at New Braunfels, Texas, from June 29, 2005, through August 31, 2005. Technical memorandum prepared for CAPCOG, AACOG, Texas A&M University, and the Texas Commission on Environmental Quality by Sonoma Technology, Inc., Petaluma, CA, STI-905027.05-2852-TM, November.
- 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.
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- 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.
- MacDonald C.P., Roberts P.T., Lilly M.R., Knoderer C.A., Miller D.S., and Hanna S.R. (2004) Boundary layer study in the Western and Central Gulf of Mexico. Report prepared for the Minerals Management Service, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-998555-2266-FR3, September.

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