

## Book Chapters

- Wheeler N.J.M., Raffuse S.M., Sullivan D.C., Craig K.J., and Reid S.B. (2010) Daily air quality predictions from the BlueSky Gateway. NATO Science for Peace and Security Series - C: Environmental Security *Air Pollution Modeling and Its Application XX*, D.G. Steyn and S.T. Rao eds., Springer Science + Business Media, N.V., Dordrecht, The Netherlands, 307-311 (DOI: 10.1007/978-90-481-3812-8).
- Wheeler N.J.M., Craig K.J., and Reid S.B. (2010) An investigation of aloft model performance for two episodes during the 2000 Central California ozone study. NATO Science for Peace and Security Series - C: Environmental Security *Air Pollution Modeling and Its Application XX*, D.G. Steyn and S.T. Rao eds., Springer Science + Business Media N.V., Dordrecht, The Netherlands, 603-607 (DOI: 10.1007/978-90-481-3812-8).

## Journal Articles

- Koracin D., Vellore R., Lowenthal D.H., Watson J.G., Koracin J., McCord T., DuBois D.W., Chen L.-W.A., Kumar N., Knipping E.M., Wheeler N.J.M., Craig K., and Reid S. (2011) Regional source identification using Lagrangian Stochastic Particle Dispersion and HYSPLIT backward-trajectory models. *J. Air Waste Manage. Assoc.* **61** (June), 660-672 (STI-4156).
- Reid S.B., Pollard E.K., Sullivan D.C., and Shaw S.L. (2010) Improvements to lawn and garden equipment emissions estimates for Baltimore, Maryland. *J. Air Waste Manage. Assoc.* **60** (December), 1452-1462.
- Chen L.-W.A., Lowenthal D.H., Watson J.G., Koracin D., Kumar N., Knipping E.M., Wheeler N., Craig K., and Reid S. (2010) Toward effective source apportionment using positive matrix factorization: experiments with simulated PM<sub>2.5</sub> data. *J. Air & Waste Manag. Assoc.* **60**, 43–54 (doi:10.3155/1047-3289.60.1.43).
- Lowenthal D.H., Watson J.G., Koracin D., Chen L.-W.A., Dubois D., Vellore R., Kumar N., Knipping E.M., Wheeler N.J.M., Craig K.J., and Reid S.B. (2010) Evaluation of regional-scale receptor modeling. *J. Air & Waste Manage. Assoc.* **60**, 26–42 (doi:10.3155/1047-3289.60.1.26).
- Reid S.B. and Eisinger D.S. (2007) Goods movement and the environment. *Air & Waste Manag. Assoc.'s EM*, 6-7.

## Meeting Presentations and Conference Proceedings

- Reid S.B., Roberts P.T., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2011) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Poster presented at the *21st CRC Real World Emissions Workshop, San Diego, CA, March 20-23*, by Sonoma Technology, Inc., Petaluma, California, and Arizona Department of Transportation, Phoenix, AZ (STI-4105).
- Wheeler N., Hafner H., Roberts P., Craig K., MacDonald C., Gray E., and Reid S. (2011) Design recommendations for the three-state pilot study. Presented at the *Federal Leadership Forum, Denver, CO, January 19* by Sonoma Technology, Inc., Petaluma, CA (STI-910208-4079).
- Tooly R.L. and Reid S.B. (2010) Emissions inventory development for fine-scale air quality modeling. Presented at the *19th International Emissions Inventory Conference, San Antonio, TX, September 29* (STI-3979).
- Reid S.B., Pollard E.K., Sullivan D.C., and Shaw S.L. (2010) Improvements to lawn and garden equipment emission estimates for Baltimore, Maryland. Presented to the *19th International Emissions Inventory Conference, San Antonio, TX, September 29* by Sonoma Technology, Inc., Petaluma, CA (STI-3940).

- Reid S.B., Eisinger D.S., Roberts P.T., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2010) Field study of PM<sub>2.5</sub> emissions from a road-widening project. Paper presented at the *19th International Emissions Inventory Conference, September 29, San Antonio, TX* (STI-3959).
- Reid S.B., Roberts P.T., Eisinger D.S., Du Y., Pollard E.K., Vaughn D.L., and DeWinter J.L. (2010) Field study of PM<sub>2.5</sub> emissions from a road-widening project. Prepared for Beverly T. Chenausky, Arizona Department of Transportation, September 10, by Sonoma Technology, Inc., Petaluma, CA (STI-3968).
- Reid S.B., Pollard E.K., Du Y., Chinkin L.R., Hammond D., and Norris G. (2010) Development of a local-scale emissions inventory for the Cleveland Multiple Air Pollutant Study. Presented to the *19th International Emissions Inventory Conference, San Antonio, TX, September 28* by Sonoma Technology, Inc., Petaluma, CA and U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-3943).
- Reid S.B., Pollard E.K., Du Y., Chinkin L.R., Hammond D., and Norris G. (2010) Development of a local-scale emissions inventory for the Cleveland Multiple Air Pollutant Study. Paper presented at the *19th International Emissions Inventory Conference, San Antonio, Texas, September 27-30*, by Sonoma Technology, Inc., Petaluma, CA and U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-3944).
- Reid S. (2010) Emissions inventories 101. Presentation made to the Air Quality Division of the Wyoming Department of Environmental Quality by Sonoma Technology, Inc., Petaluma, CA (STI-910019-3945) August.
- Tooly R.L. and Reid S.B. (2010) Emissions inventory development for fine-scale air quality modeling. Paper presented at the *19th International Emission Inventory Conference - Emission Inventories - Informing Emerging Issues, San Antonio, Texas, September 27-30*, by Sonoma Technology, Inc., Petaluma, CA and U.S. Environmental Protection Agency, Research Triangle Park, NC (STI 910120-3957).
- Reid S.B., Roberts P.T., Eisinger D.S., Wheeler N.J.M., Bai S., and Chenausky B.T. (2010) Field study of PM<sub>2.5</sub> emissions from a road-widening project. *CRC On-Road Vehicle Emissions Workshop, San Diego, CA, March 24* (STI-3740).
- Craig K., Wheeler N., Raffuse S., Sullivan D., Reid S., MacDonald C., Larkin S., Solomon R., and Strand T. (2010) Experimental air quality predictions from the BlueSky Gateway. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* by Sonoma Technology, Inc., Petaluma, CA and the USDA Forest Service, Pacific Northwest Research Station, Seattle, WA (STI-3803).
- Wheeler N.J.M., Craig K.J., and Reid S.B. (2009) An investigation of aloft model performance for two episodes during the 2000 Central California ozone study. Paper presented at the *30th NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application, San Francisco, CA, May 18-22* by Sonoma Technology, Inc., Petaluma, CA (STI-3594).
- Wheeler N.J.M., Raffuse S.M., Sullivan D.C., Craig K.J., and Reid S.B. (2009) Daily air quality predictions from the BlueSky gateway. Presented at the *30th NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application, San Francisco, CA, May 18-22* by Sonoma Technology, Inc., Petaluma, CA (STI-3589).
- Raffuse S.M., Reid S.B., Pollard E.K., Wheeler N.J.M., Larkin N.K., Strand T.M., and Solomon R. (2009) Conterminous U.S. fire emissions of greenhouse gases. Presented at the *First International Greenhouse Gas Measurement Symposium, San Francisco, CA, March 23-25* (STI-3584).

- Raffuse S.M., Reid S.B., Pollard E.K., and Wheeler N.J.M. (2009) A daily fire greenhouse gas emission inventory for the United States and comparison with other inventories. Paper presented at the *First International Greenhouse Gas Measurement Symposium, Burlingame, CA, March 23* by Sonoma Technology, Inc., Petaluma, CA (STI-3584).
- Craig K.J., Wheeler N.J.M., Raffuse S.M., Sullivan D.C., Reid S.B., Solomon R., Strand T., and Larkin S. (2008) BlueSky Gateway: providing access to products from the BlueSky smoke modeling program. Poster presented at the *7th Annual Community Modeling and Analysis System (CMAS) Conference, Chapel Hill, NC, October 6-8* by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-3452).
- Sullivan D.C., Raffuse S.M., Pryden D.A., Craig K.J., Reid S.B., Wheeler N.J.M., Chinkin L.R., Larkin N.K., Solomon R., and Strand T. (2008) Development and applications of systems for modeling emissions and smoke from fires: the BlueSky smoke modeling framework and SMARTFIRE. Paper presented at the *17th International Emissions Inventory Conference, Portland, OR, June 5*, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Forest Service, Seattle, WA (STI-3378).
- Wheeler N.J.M., Craig K.J., Reid S.B., Gilliland E.K., Sullivan D.C., and Chinkin L.R. (2008) The BlueSky Gateway air quality forecast system for fire management. Presented at the *BlueSky Smoke Modeling Framework Stakeholders' Meeting, Boise, ID, May 20-22* (STI-905028-3367).
- Wheeler N.J.M. and Reid S.B. (2006) Photochemical modeling of an industrial city in Qatar. Poster presentation at the *Community Modeling and Analysis System (CMAS) Conference, Chapel Hill, NC, October 16-18*, by Sonoma Technology, Inc., Petaluma, CA (STI-3007)
- Wheeler N.J.M., Craig K.J., Reid S.B., Gilliland E.K., Kumar N., Knipping E.M., Lowenthal D.H., Chen L.-W.A., Watson J.G., and Koracin D. (2007) Simulating IMPROVE-like data for use in evaluating receptor models. Poster presented at the *2007 Aerosol Conference, Reno, NV, September 24-28*, by Sonoma Technology, Inc., Petaluma, CA, EPRI, Palo Alto, CA, and Desert Research Institute, Reno, NV (STI-3155).
- Reid S.B., Chinkin L.R., Penfold B.M., and Gilliland E.K. (2007) Emissions inventory validation and improvement: a Central California case study. Paper presented at the *U.S. Environmental Protection Agency's 16th Annual Emission Inventory Conference, Raleigh, NC, May 14-17*, by Sonoma Technology, Inc., Petaluma, CA (STI-3109).
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- Reid S.B., Brown S.G., McCarthy M.C., and Chinkin L.R. (2006) Comparison of ambient measurements to emissions representations for modeling in California's San Joaquin Valley. Presented to the *U.S. Environmental Protection Agency's 15th Annual Emission Inventory Conference, New Orleans, LA, May 18*, by Sonoma Technology, Inc., Petaluma, CA (STI-2944).
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- Wheeler N.J.M., Chinkin L.R., Reid S.B., Gross T., Hawkins A., Watson D., Vit W., Mefrakis R., and Joerke J. (2005) Regional photochemical modeling for the Kansas City Clean Air Action Plan: what it tells us about the challenges ahead for 8-hr ozone nonattainment areas. Presented at the *4th Annual CMAS Models-3 User's Conference, Chapel Hill, NC, September 26-28*, by Sonoma Technology, Inc., Petaluma, CA; Missouri Department of Natural Resources, Jefferson City, MO; Mid-America Regional Council, Kansas City, MO (STI-2800).
- Reid S.B., Sullivan D.C., Stiefer P.S., and Chinkin L.R. (2005) Development of emission inventories of recreational boats and commercial marine vessels for the Central States Regional Air Planning Association. Presented at *the U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2714, STI-2721).
- Sullivan D.C., Reid S.B., Penfold B.M., and Chinkin L.R. (2005) Development of agricultural dust emission inventories for the Central States Regional Air Planning Association. Presented at *the U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2713, STI-2720).
- Sullivan D.C., Reid S.B., Stiefer P.S., Funk T.H., and Chinkin L.R. (2005) On-road mobile source emission inventory development for the Central States Regional Air Planning Association. Presented at *the U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2712, STI-2719).
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- Brown S.G., Reid S.B., Roberts P.T., Buhr M.P., Funk T.H., Kim E., and Hopke P.K. (2004) Reconciliation of the VOC and NO<sub>x</sub> emission inventory with ambient data in the Houston, Texas region. Paper presented at the *U.S. Environmental Protection Agency's 13th Annual Emission Inventory Conference, Clearwater, FL, June 9* (STI-2525).
- Reid S.B., Funk T.H., Sullivan D.C., Stiefer P.S., Arkinson H.L., Brown S.G., and Chinkin L.R. (2004) Research and development of emission inventories for planned burning activities for the Central States Regional Air Planning Association. Paper for the *13th International Emission Inventory Conference "Working for Clean Air in Clearwater", Clearwater, FL, June 8-10* (STI-2515).
- Sullivan D.C. and Reid S.B. (2004) Research and development of ammonia emission inventories for the Central States Regional Air Planning Association. Paper for the *13th International Emission Inventory Conference "Working for Clean Air in Clearwater", Clearwater, FL, June 8-10* (STI-2518).
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- Coe D.L., Chinkin L.R., Reid S.B., and Stiefer P.S. (2003) Weekday-weekend emissions patterns for southern California: observations and implications. Presented at the NARSTO Workshop on Innovative Methods for Emission-Inventory Development and Evaluation, University of Texas at Austin, October 14-17 (STI-2421).

Coe D.L., Gorin C.A., Chinkin L.R., and Reid S.B. (2003) Observations of weekday-weekend activity patterns for area sources in the Los Angeles area. Paper and presentation prepared for and presented at the U.S. Environmental Protection Agency, *12th International Emission Inventory Conference "Emission Inventories - Applying New Technologies"*, San Diego, CA, April 28 - May 1 (STI-2278).

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.

### Formal Reports

Reid S.B., Pollard E.K., Erdakos G.B., and Craig K.J. (2011) Dispersion modeling support for infill construction projects in San Francisco. Technical memorandum prepared for the Bay Area Air Quality Management District, San Francisco, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-911042-4296-TM, December 7.

Reid S.B., Pollard E.K., and Stilley J.C. (2011) Summary of available data and knowledge gaps related to characterizing greenhouse gas emissions in the Lake Tahoe Basin. Technical Memorandum prepared for California Tahoe Conservancy, by Sonoma Technology, Inc., Petaluma, CA, STI-911006-4191-TM, August.

Reid S., Du Y., Bai S., and Eisinger D. (2011) Preliminary results from comparisons of GPS and daily diary data. Technical memorandum prepared for the California Transportation Department, Sacramento, CA by Sonoma Technology, Inc., Petaluma, CA, STI-909115-4199-TM, August 29.

Pollard E.K., Du Y., and Reid S.B. (2011) Preparation of wildland and agricultural fire emissions inventories for 2008. Technical Memorandum prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910221-4159, June.

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Wheeler N.J.M., Hafner H.R., Roberts P.T., Craig K.J., Reid S.B., MacDonald C.P., and Gray E.A. (2011) Design recommendations for the three-state pilot study data warehouse. Report prepared for the U.S. Environmental Protection Agency, Region 8, Denver, Colorado, by Sonoma Technology, Inc., Petaluma, California, STI-910208-4092-FR, March 21.

Reid S.B., Pollard E.K., Craig K.R., and Stilley J.C. (2011) Impact of offshore ship emissions on Alaska and Pacific Islands. Draft final report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Sonoma Technology, Inc. Petaluma, CA, STI 910209-4074-DFR, March.

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Roberts P.T., Reid S.B., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., and Brown S.G. (2010) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Final report prepared for the Arizona Department of Transportation, Phoenix, AZ by Sonoma Technology, Inc., Petaluma, CA, STI-908017-3971-FR, October.

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- Roberts P.T., Reid S.B., Eisinger D.S., and Bai S. (2008) Field study of PM<sub>2.5</sub> emissions generated from road widening project. Technical memorandum prepared for the Arizona Department of Transportation by Sonoma Technology, Inc., Petaluma, CA, STI-908017.03-3493, November.
- Wheeler N.J.M., Reid S.B., Craig K.J., Zielonka J.R., Stauffer D.R., and Hanna S.R. (2008) Cumulative increment analysis for the Breton National Wilderness Area. Final report prepared for the Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-901360.08-3163-FR (MMS 2008-058), December.
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