

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 B.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

Pavlovic N.R., Chang S.Y., Huang J., Craig K., Clark C., Horn K., and Driscoll C.T. (2023) Empirical nitrogen and sulfur critical loads of U.S. tree species and their uncertainties with machine learning. *Science of The Total Environment*, 857, 159252, January 20. Available at <https://www.sciencedirect.com/science/article/pii/S0048969722063513>.

Hao H., Eckel S.P., Hosseini A., Van Vliet E.D.S., Dzurbur E., Dunton G., Chang S.Y., Craig K., Rocchio R., Bastain T., Gilliland F., Okelo S., Ross M.K., Sarrafzadeh M., Bui A.A.T., and Habre R. (2022) Daily associations of air pollution and pediatric asthma risk using the Biomedical REAI-Time Health Evaluation (BREATHE) kit. *Int J Environ Res Public Health*, doi: DOI: 10.3390/ijerph19063578, March 17. Available at <https://pubmed.ncbi.nlm.nih.gov/35329265/>.

Hao H., Eckel S.P., Hosseini A., Van Vliet E.D.S., Dzubur E., Dunton G., Chang S.Y., Craig K., Rocchio R., Bastain T., Gilliland F., Okelo S., Ross M.K., Sarrafzadeh M., Bui A.A.T., and Habre R. (2022) Daily associations of air pollution and pediatric asthma risk using the biomedical real-time health evaluation (BREATHE) kit. *International Journal of Environmental Research and Public Health*, 19(6), 3578. Available at <https://www.mdpi.com/1660-4601/19/6/3578>.

Eisinger D., Craig K., Landsberg K., Mukherjee A., DeWinter J., McCarthy M., and Brown S. (2021) Near-road air quality insights from a U.S. DOT five-year transportation pooled fund study. *TR News*, (332), 20-27, March-April. Available at <http://www.trb.org/Publications/Blurbs/182193.aspx>.

Craig K.J., Baringer L.M., Chang S.-Y., McCarthy M.C., Bai S., Seagram A.F., Ravi V., Landsberg K., and Eisinger D.S. (2020) Modeled and measured near-road PM_{2.5} concentrations: Indianapolis and Providence cases. *Atmos. Environ.*, 240, 117775 (STI-6696), November. Available at <https://www.sciencedirect.com/science/article/abs/pii/S1352231020305070>.

Craig K., Erdakos G., Chang S.Y., and Baringer L. (2020) Air quality and source apportionment modeling of Year 2017 ozone episodes in Albuquerque/Bernalillo County, New Mexico. *J. Air Waste Manage.*, 70(11), 1101-1120, (STI-7231), May 15. Available at <https://doi.org/10.1080/10962247.2020.1764879>.

Capps S.L., Driscoll C.T., Fakhraei H., Templer P.H., Craig K.J., Milford J.B., and Lambert K.F. (2016) Estimating potential productivity cobenefits for crops and trees from reduced ozone with U.S. coal

power plant carbon standards. *Journal of Geophysical Research Atmospheres*, 121, 14679–14690, doi: 10.1002/2016JD025141.

- Reid S., Bai S., Du Y., Craig K., Erdakos G., Baringer L., Eisinger D., McCarthy M., and Landsberg K. (2016) Emissions modeling with MOVES and EMFAC to assess the potential for a transportation project to create particulate matter hot spots. *Transportation Research Record: Journal of the Transportation Research Board*, 2570, 12-20, doi: 10.3141/2570-02 (STI-6330).
- Raffuse S.M., McCarthy M.C., Craig K.J., DeWinter J.L., Jumbam L.K., Fruin S.A., Gauderman W.J., and Lurmann F.W. (2013) High-resolution MODIS aerosol retrieval during wildfire events in California for use in exposure assessment. *Journal of Geophysical Research*, 118(19), 11242-11255, doi: 10.1002/jgrd.50862 (STI-5433), October. Available at <http://onlinelibrary.wiley.com/doi/10.1002/jgrd.50862/abstract>.
- Strand T.M., Larkin N., Craig K.J., Raffuse S., Sullivan D., Solomon R., Rorig M., Wheeler N., and Pryden D. (2012) Analysis of BlueSky Gateway PM_{2.5} predictions during the 2007 southern and 2008 northern California fires. *J. Geophys. Res.*, 117(D17301), (doi:10.1029/2012JD017627). Available at <http://www.agu.org/pubs/crossref/2012/2012JD017627.shtml>.
- Raffuse S., Craig K., Larkin N., Strand T., Sullivan D., Wheeler N., and Solomon R. (2012) An evaluation of modeled plume injection height with satellite-derived observed plume height. *Atmosphere*, 3, special issue: Biomass Emissions, Dr. Charles Ichoku, ed., 103-123 (STI-908054-3870, doi: 10.3390/atmos3010103).
- 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).
- 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_{2.5} data. *J. Air & Waste Manag. Assoc.* 60, 43–54 (doi: 0.3155/1047-3289.60.1.43).
- 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).

Whitepapers

- Craig K. (2022) Summary of PFAS Strategic Roadmap: EPA's Commitments to Action 2021-2024. March 28. STI-7682. Available at <https://www.linkedin.com/pulse/summary-pfas-strategic-roadmap-epas-commitments-/>.
- Craig K. (2022) EPA PFAS Strategic Roadmap Update: New Drinking Water Health Advisories and Grant Funding to Address PFAS Contamination. June 21. STI-7682. Available at <https://www.linkedin.com/pulse/epa-pfas-strategic-roadmap-update-new-drinking-/>.

Meeting Presentations, Webinars, and Conference Proceedings

- Coughlin J., Chang S.Y., Pavlovic N.R., Huang J., Craig K.J., Scarborough C., and Driscoll C.T. (2023) Spatially varying nitrogen critical loads and the influences of mediating factors. Presentation given at the *NADP Spring Meeting, Madison, WI, May 1-5*, by Sonoma Technology, Petaluma, CA. STI-7898.
- Pavlovic N.R., Chang S.Y., Huang J., Craig K., Clark C., Horn K., and Driscoll C.T. (2023) Empirical nitrogen and sulfur critical loads of U.S. tree species and their uncertainties with machine learning. *Science of The Total Environment*, 857, 159252, January. Available at <https://www.sciencedirect.com/science/article/pii/S0048969722063513>.
- Chang S.Y., Pavlovic N.R., Coughlin J., Huang J., Craig K.J., Scarborough C., Horn K., Driscoll C.T., and Herrick J. (2022) Empirical critical levels of ozone for U.S. tree species and their uncertainties with machine learning. Presentation given at the *National Atmospheric Deposition Program 2022 Science Symposium, Knoxville, TN, November 17*, by Sonoma Technology, Petaluma, CA, the Freedom Consulting Group, Columbia, MD, and the Syracuse University Department of Civil and Environmental Engineering, Syracuse, NY. STI-7769.
- Pavlovic N.R., Coughlin J.G., Chang S., Huang J., Craig K.J., Scarborough C., Horn K., and Driscoll C.T. (2022) Mapping variability of nitrogen critical loads using machine learning. Poster presented at the *2022 National Atmospheric Deposition Program Conference, Knoxville, TN, November 14-18*, by Sonoma Technology, Petaluma, CA, the Freedom Consulting Group, Columbia, MD, and the Syracuse University Department of Civil and Environmental Engineering, Syracuse, NY. STI-7770.
- Pavlovic N.R., Chang S., Huang J., Craig K.J., Clark C., Horn K., and Driscoll C.T. (2021) Empirical nitrogen and sulfur critical loads of U.S. tree species and their uncertainties with machine learning. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-600600-7576.
- Pavlovic N.R., Driscoll C.T., Craig K., Huang J., Chang S.Y., Clark C.M., and Horn K. (2021) An application of machine learning to determine critical loads of nitrogen and sulfur in forest ecosystems in the U.S. Presentation given at the *NADP 2021 Fall Meeting and Symposium, virtual event, October 27*, by Sonoma Technology, Petaluma, CA. STI-7667.
- Chang S.Y., Craig K., and Lurmann F. (2021) An environmental data web service based on near road dispersion modeling to support the Los Angeles Pediatric Research Integrating Sensor Monitoring Systems (PRISMS) Informatics Center. Presentation *International Society of Exposure Science, virtual conference*. STI-7589.
- Driscoll C.T., Scarborough C., Huang J., Craig K., Pavlovic N.R., and Chang S.Y. (2021) Constraining uncertainties of critical loads for atmospheric nitrogen and sulfur deposition with machine learning. Presented to Syracuse University, May 3, by Sonoma Technology, Inc., Petaluma, CA.
- Chang S.Y., Pavlovic N., Craig K., Kirk-Davidoff D., and Wang Q. (2021) Predicting fog and stratus dissipation for solar energy applications in California using meteorological measurements and machine learning. Presentation given at the *101st Annual AMS Conference, virtual event, January*, by Sonoma Technology, Petaluma, CA. STI-7426.

- Pavlovic N.R., Driscoll C.T., Craig K., Huang J., Chang S.Y., and Clark C.M. (2020) An application of machine learning to determine critical loads of nitrogen and sulfur in forest ecosystems in the U.S. Presentation given at the *NADP 2020 Fall Meeting and Symposium, virtual event, October 29*, by Sonoma Technology, Petaluma, CA. STI-7420.
- Craig K., Moffet R., Marrero J., and Roberts P. (2020) Piloting next-generation sensor technology at upstream oil and gas facilities. Presentation given at the *A&WMA 113th Annual Conference and Exhibition (ACE 2020), June 30*, by Sonoma Technology, Petaluma, CA. STI-7212.
- Craig K., Baringer L., Chang S.Y., Eisinger D., and Landsberg K. (2020) The Near-Road Air Quality Transportation Pooled Fund – lessons learned from a 5-year research program: measurements compared to modeled concentrations. Presented at the *U.S. Transportation Research Board, 99th Annual Meeting, Workshop 1772 "Near-Road Air Quality: Current Conditions and Analysis Insights," Washington, D.C., January 16*, by Sonoma Technology, Inc., and the Washington State Department of Transportation. STI-7227.
- Kirk-Davidoff D.B., Craig K., Tuohy A., and Wang Q. (2020) Improving coastal and valley fog forecasts by assimilating boundary layer observations. Poster presented at the *American Meteorological Society 100th Annual Meeting, Boston, MA, January 15*. Available at <https://ams.confex.com/ams/2020Annual/meetingapp.cgi/Paper/370449>.
- Craig K., Erdakos G., Chang S.-Y., and Baringer L. (2019) Source apportionment modeling to investigate local and non-local contributions to ground-level ozone in Albuquerque, New Mexico. Presentation given at the *2019 CMAS Conference, Chapel Hill, NC, October 23*, by Sonoma Technology, Inc., Petaluma, CA. STI-7145.
- Craig K., Chang S.Y., Erdakos G., and Baringer L. (2019) Projecting future ground-level ozone concentrations in Albuquerque, New Mexico. Poster presented at the *2019 CMAS Conference, Chapel Hill, NC, October 21-23*, by Sonoma Technology, Inc., Petaluma, CA. STI-7175.
- Brown S., Craig K., Eisinger D., Landsberg K., Mukherjee A., Baringer L., Chang S.Y., DeWinter J., McCarthy M., and Huang S. (2019) National assessment of near-road (NR) air quality: requirements, trends, and analysis insights. Presented for the U.S. Transportation Research Board webinar series, September 30, by Sonoma Technology, Inc., and the Washington State Department of Transportation.
- Brown S., Craig K., Eisinger D., Landsberg K., Mukherjee A., Baringer L., Chang S.Y., DeWinter J., McCarthy M., and Huang S. (2019) National assessment of near-road (NR) air quality: requirements, trends, and analysis insights. Presented to the AASHTO Committee on Environment and Sustainability, 2019 Annual Meeting, Minneapolis, MN, August 7, by Sonoma Technology, Inc., Petaluma, CA, and the Washington State Department of Transportation, Olympia, WA. STI-7154.
- Craig K., Moffet R., Marrero J., and Roberts P. (2019) Piloting next-generation sensor technology at upstream oil and gas facilities. Webinar presented to the Petroleum Technology Alliance of Canada (PTAC), February 28, by Sonoma Technology, Petaluma, CA. STI-917057-7081.
- Craig K.J., Huang S., Pavlovic N., Chang S.Y., Cavallaro A., and Drury S. (2019) Improving spatial resolution of wildland fire location and fuel biomass data inputs to NOAA's NAQFC. Presentation given at the

International Fire Behavior and Fuels Conference, Albuquerque, NM, April 30, by Sonoma Technology Inc., Petaluma, CA. STI-7017.

Craig K., Baringer L., Chang C., Bai S., Landsberg K., and Eisinger D. (2019) Near-road PM_{2.5}, modeled vs. monitored data comparison: Indianapolis case study. Presented at the Transportation Research Board 2019 Annual Meeting, Analysis Subcommittee, Transportation and Air Quality Committee, January 14, by Sonoma Technology, Inc., Petaluma, CA, and the Washington State Department of Transportation, Olympia, WA. STI-7020.

Kirk-Davidoff D., Tuohy A., Craig K., and Kumar N. (2019) Sensitivity of solar generation forecast skill to WRF parameterization choices under Central Valley and coastal fog conditions. Presentation given at the *American Meteorological Society 99th Annual Meeting, Phoenix, AZ, January 7*. Available at <https://ams.confex.com/ams/2019Annual/meetingapp.cgi/Paper/351523>.

Pavlovic N.R., Craig K.J., and Zahn P.H. (2018) Managing air quality impacts from agricultural burning: case studies and lessons learned from smoke information systems developed in the United States. Presented at the *2018 Better Air Quality Conference, Kuching, Malaysia, November 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-6928.

Craig K., Baringer L., Eisinger D., Brown S., and McCarthy M. (2018) Near-Road Air Quality Transportation Pooled Fund (TPF): TO 2 Indianapolis case study results. Webinar presented to the Arizona, California, Colorado, Ohio, Texas, Virginia, and Washington State Departments of Transportation and the U.S. Federal Highway Administration, November 5, by Sonoma Technology, Inc., Petaluma, CA. STI-914202-7020.

Mukherjee A., Brown S.G., McCarthy M.C., Craig K.J., Snyder J.L., D'Andrea S., and Kennard A. (2018) Sensor variations in wintertime PM among communities in Sacramento measured with a combination of traditional and low-cost sensor methods use for real-world applications. Poster presented at the *17th Annual CMAS Conference, October 22-24, Chapel Hill, NC* by Sonoma Technology, Inc., Petaluma, CA. STI-6907.

Chang S.Y., Craig K., Seagram A., Lurmann F., Hosseini A., Sarrafzadeh M., Rocchio R., Habre R., and Bui A. (2018) An environmental data web service based on near-road dispersion modeling to support the Los Angeles Pediatric Research Integrating Sensor Monitoring Systems (PRISMS) Informatics Center. Poster presented at the *2018 CMAS Conference, October 22-24, Chapel Hill, NC*, by Sonoma Technology, Inc., Petaluma, CA. STI-6994.

Craig K.J., Huang S., Pavlovic N., Chang S.Y., and Cavallaro A. (2018) Improving spatial resolution of wildland fire location and fuel biomass data inputs to NOAA's NAQFC. Presentation given at the *17th Annual CMAS Conference, Chapel Hill, NC, October 23*, by Sonoma Technology, Inc., Petaluma, CA. STI-6993. Available at https://www.cmascenter.org/conference//2018/slides/craig_improving_spatial_2018.pdf.

Craig K. (2018) Air quality modeling of 2017 ozone episodes in the City of Albuquerque. Presented to the City of Albuquerque Air Quality Control Board, Albuquerque, NM, October 18, by Sonoma Technology, Inc., Petaluma, CA. STI-918015-7000.

- Craig K. and Erdakos G. (2018) Air quality modeling of 2017 ozone episodes in the City of Albuquerque. Presented to the City of Albuquerque Air Quality Program, Albuquerque, NM, October 18, by Sonoma Technology, Inc., Petaluma, CA. STI-918015-7000.
- Pavlovic N., Brown S., O'Brien T., Huang S., Craig K., Zahn P., Penfold B., and Jaffe D. (2018) Wildland fire smoke from long-range transport enhances ozone in the Southeastern U.S. Presentation given at the *National Ambient Air Monitoring Conference, Portland, OR, August 16*, by Sonoma Technology, Inc., Petaluma, CA, and the University of Washington, Bothell, WA. STI-6934.
- Craig K., Seagram A., Du Y., Bai S., Eisinger D., Baringer L., Erdakos G., and Brown S. (2017) TPF TO 2 phase III, case study 1 – Providence, RI: work update. Webinar presented to the Transportation Pooled Fund participants, December 11, by Sonoma Technology, Inc., Petaluma, CA. STI-914202-6838.
- Bai S., Du Y., Seagram A.F., and Craig K.J. (2017) MOVES-based NO_x analyses for urban case studies in Texas. Presented at the *16th Annual CMAS Conference, Chapel Hill, NC, October 23-25*. STI-6760.
- Craig K., Erdakos G., Baringer L., and Chang S.Y. (2017) Source apportionment modeling to investigate background, regional, and local contributions to ozone concentrations in Denver, Phoenix, Detroit, and Atlanta. Presentation given at the *16th Annual CMAS Conference, Chapel Hill, NC, October 23*, by Sonoma Technology, Inc., Petaluma, CA. STI-6759.
- Bai S., Du Y., Seagram A.F., and Craig K.J. (2017) MOVES-based NO_x analyses for urban case studies in Texas. Extended abstract for the *16th Annual CMAS Conference, Chapel Hill, NC, October 23-25*. STI-6760.
- Craig K., Erdakos G., Baringer L., and Chang S.Y. (2017) Source apportionment modeling analysis findings. Webinar presented to the Electric Power Research Institute, August 30, by Sonoma Technology, Inc., Petaluma, CA. STI-916029-6786.
- Bai S., Du Y., Seagram A., and Craig K. (2017) MOVES-based NO_x analyses for urban case studies in Texas. Presented at the *2017 International Emission Inventory Conference, Baltimore, MD, August 14-18*. STI-6727.
- Bai S., Du Y., Seagram A., and Craig K. (2017) MOVES-based NO_x analyses for urban case studies in Texas. Presented at the University of Texas at Austin, Air Quality Research Program, Austin, TX, August 3, by Sonoma Technology, Inc., Petaluma, CA. STI-916046-6781.
- Craig K.J., Erdakos G.B., Song B., and Reid S. (2017) Roadway Source Setup in AERMOD View. Webinar presented to the California Department of Transportation, Sacramento, CA, May 31, by Sonoma Technology, Petaluma, CA. STI-914103-6719.
- Erdakos G., Craig K., and Bai S. (2017) Overview of the Design Value Tool: DVTool v3.0. Webinar presented to the California Department of Transportation, Sacramento, CA, May 16, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6718.
- Erdakos G.B., Craig K.J., and Bai S. (2017) AERMOD modeling with depressed and elevated roadways. Webinar presented to the California Department of Transportation, Sacramento, CA, May 9, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6714.

- Craig K., Seagram A., Erdakos G., and Bai S. (2017) Overview of the ArcGIS web-based tool and CTM-based PM background concentration spreadsheet. Webinar presented to the California Department of Transportation, April 11, by Sonoma Technology, Inc. STI-914103-6708.
- Craig K., Erdakos G., Baringer L., Reid S., and Kumar N. (2017) Source apportionment modeling to investigate background, regional, and local contributions to ozone concentrations in Denver and Phoenix. Presented at the Background Ozone Scientific Assessment Workshop, Denver, CO, March 29, by Sonoma Technology, Inc., Petaluma, CA. STI-6735.
- Craig K., Erdakos G., Baringer L., and Reid S. (2016) Ozone source apportionment modeling to support policy initiatives in the eastern United States. Presented at the *15th Annual CMAS Conference in Chapel Hill, NC, October 26*, by Sonoma Technology, Inc., Petaluma, CA. STI-6537.
- Erdakos G.B., Bai S., and Craig K.J. (2016) AERMOD View modeling quality assurance. Webinar presented to the California Department of Transportation, Sacramento, CA, August 17, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6565.
- Erdakos G.B. and Craig K.J. (2016) AERMOD View receptor and meteorology pathways. Webinar presented to the California Department of Transportation, Sacramento, CA, August 4, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6562.
- Erdakos G.B. and Craig K.J. (2016) AERMOD View source pathway. Webinar presented to the California Department of Transportation, Sacramento, CA, June 30, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6541.
- Reid S., Bai S., Du Y., Craig K., Erdakos G., Baringer L., Eisinger D., and McCarthy M. (2016) Emissions modeling with MOVES and EMFAC to assess the potential for a transportation project to create particulate matter hot spots. Presentation given at the *2016 Transportation Research Board Annual Meeting, Washington, DC, January 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-914202-6417.
- Craig K.J., Raffuse S., Larkin S., Huang S., and Drury S. (2015) Megafires and smoke exposure under future climate scenarios in the contiguous United States. Presented at the *14th Annual CMAS Conference, Chapel Hill, NC, October 5-7*. STI-6361.
- Erdakos G.B., Craig K.J., DeWinter J.L., and Reid S.B. (2015) MetDat meteorological database system: data acquisition, processing, and accessibility through the AirNow Portal. Poster presented at the *14th Annual CMAS Conference, Chapel Hill, NC, October 5-7*. STI-6353.
- Craig K.J. (2015) Project update: transition season modeling challenges and Great Lakes meteorological modeling challenges. Presented to Electric Power Research Institute Palo Alto, CA, September 4, by Sonoma Technology, Inc., Petaluma, CA. STI - 915030-6348.
- Craig K.J. and Erdakos G.B. (2015) Review and quality control (QC) of quantitative PM hot-spot dispersion modeling results. Presented to the California Department of Transportation, Sacramento, CA, June 17, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6301.
- Craig K., Graham A., and Reid S. (2015) Development of background PM concentrations for PM hot-spot analysis. Presented to the California Department of Transportation, Sacramento, CA, May 20, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6281.

- DeWinter J.L., Raffuse S.M., Brown S.G., and Craig K.J. (2015) Reducing the potential for black carbon to impact the Arctic. Presented at the Transportation for Sustainability: Sustainable Transportation for Climate Change, Washington, DC, May 7. STI-6260.
- Craig K., Du Y., Reid S., Gross T., and Watson D. (2015) Developing agricultural burning emissions inventories to support the quantification of fire-related ozone impacts for an exceptional event demonstration. Presentation and paper presented at the *2015 International Emission Inventory Conference, San Diego, CA, April 12-16*, by Stephen Reid, Sonoma Technology, Inc., Petaluma, CA. STI-6135, STI-6222.
- DeWinter J.L., Raffuse S.M., Craig K.J., Brown S.G., and Roberts P.T. (2015) Global modeling and analysis system for 30-year assessment of long-range transport. Poster presented at the San Joaquin Valley Air Pollution Control District's Transboundary Ozone Pollution Conference in Yosemite, CA, March 31-April 2. STI-6225.
- Reid S., Raffuse S., Craig K., and Bai S. (2015) Estimating emissions and air quality impacts from crop residue burning. Presented at the *Yangtze River Delta Clean Air Forum, Shanghai, China, March 24*, by Song Bai, Sonoma Technology, Inc., Petaluma, CA. STI-6210.
- Erdakos G. and Craig K. (2015) Representing roadway emission sources in AERMOD (webinar 2 of 2). Webinar presented to the California Department of Transportation, Sacramento, CA, February 19, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6108.
- Erdakos G. and Craig K. (2015) Representing roadway emission sources in AERMOD (webinar 1 of 2). Webinar presented to the California Department of Transportation, Sacramento, CA, February 17, by Sonoma Technology, Inc., Petaluma, CA. STI-914103-6107.
- Huang S., Larkin N.K., Raffuse S.M., Lorentz K.A., Drury S.A., and Craig K.J. (2014) Megafires and smoke exposure under future climate scenarios in the contiguous United States. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 15-19*, by Sonoma Technology, Inc., Petaluma, CA. STI-6041.
- Rodriguez M.A., Chien C.-J., Wang Z., Taylor C., Reid S., Craig K., and Herr L. (2014) Uinta Basin winter ozone model performance for the Utah Bureau of Land Management's Air Resource Management Strategy (ARMS) modeling study. Poster presented at the 13th Annual CMAS Conference, Chapel Hill, NC, October 27-29. STI-6114.
- Reid S., Craig K., Erdakos G., Driscoll C., Fakhraei H., Lambert K.F., Schwartz J., Buonocore J., and Levy J. (2014) Modeling the co-benefits of carbon standards for existing power plants. Presented at the *13th Annual CMAS Conference, Chapel Hill, NC, October 29*, by Sonoma Technology, Inc., Petaluma, CA. STI-6102.
- Raffuse S.M., DeWinter J.L., McCarthy M.C., Craig K.J., and Lurmann F. (2014) A high-spatial-resolution MODIS aerosol optical depth product for evaluating aerosol during large wildfire events. Presented at the *2014 Global Emissions Initiative Conference, Boulder, CO, June 10-11*. STI-5990.
- Craig K.J., Alrick D.M., Du Y., Erdakos G.B., MacDonald C.P., Gross T., and Watson D. (2014) Use of photochemical grid modeling to quantify ozone impacts from fires in support of exceptional event demonstrations. Presented at the *2014 Midwest and Central States Air Quality Workshop, St. Louis, MO, April 23*, by Sonoma Technology, Inc., Petaluma, CA. STI-5704.

- Haderman M., Larkin N., Cavallaro A., Beach C.M., Stillely J., DeWinter J., Craig K., and Raffuse S. (2013) BlueSky Cloud: rapid infrastructure using Amazon's cloud for wildfire emergency response. Presented at the *AGU Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA. STI-5735.
- Craig K.J., Alrick D.M., Du Y., Erdakos G.B., MacDonald C.P., Gross T., and Watson D. (2013) Use of photochemical grid modeling to quantify ozone impacts from fires in support of exceptional event demonstrations. Presented at the *12th Annual CMAS Conference, Chapel Hill, NC, October 28-30*, by Sonoma Technology, Inc., Petaluma, CA. STI-5704.
- Craig K., Reid S., Erdakos G., Wang Z., Taylor C., Reed J., and Herr L. (2013) Annual WRF simulations for the Utah Bureau of Land Management's Air Resource Management Strategy (ARMS) air quality modeling. Poster presented at the *12th Annual CMAS Conference, Chapel Hill, NC, October 28-30*, by Sonoma Technology, Inc., Petaluma, CA (STI-5707).
- DeWinter J.L., Raffuse S.M., McCarthy M.C., Craig K.J., Jumbam L.K., and Lurmann F.W. (2013) Developing a high spatial resolution aerosol optical depth product using MODIS data for evaluating aerosol during large wildfire events. Presented at the *12th Annual CMAS Conference, Chapel Hill, NC, October 28-30*, by Sonoma Technology, Inc., Petaluma, CA. (STI-5701).
- Rodriguez M.A., Chien C.-J., Wang Z., Taylor C., Reid S., Craig K., and Herr L. (2013) Uinta Basin winter ozone model performance for the Utah Bureau of Land Management's Air Resource Management Strategy (ARMS) modeling study. Poster presented at the *12th Annual CMAS Conference, Chapel Hill, NC, October 28-30*, STI-5871.
- Drury S.A., Rorig M.L., Wheeler N.J.M., Craig K.J., Stillely J.C., Gray E.A., and Erdakos G.B. (2012) Real-time analysis of fire weather prediction accuracy: year two. Poster presented at the *5th International Fire Ecology and Management Conference, Portland, OR, December 3-7* (STI-5455).
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- DeWinter J.L., Raffuse S.M., McCarthy M.C., Craig K.J., Jumbam L.K., and Lurmann F.W. (2012) Developing a high spatial resolution aerosol optical depth product using MODIS data for evaluating aerosol during large wildfire events. Presented at the *Air and Waste Management Association Visibility and Air Pollution Conference, Whitefish, MT, September 26*, by Sonoma Technology, Inc., Petaluma, CA (STI-5384).
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- Pryden D., Raffuse S.M., Larkin N.K., Dedecko T.M., DeWinter J.L., and Craig K.J. (2012) A system for storing and analyzing a massive climatological database of modeled air mass trajectories. Presented at the *American Meteorological Society's 92nd Annual Meeting, Second Symposium on Advances in Modeling and Analysis Using Python, New Orleans, LA, January 23*, by Sonoma Technology, Petaluma, CA, and USDA Forest Service, Pacific Northwest Research Station, Seattle, WA (STI-4186).
- Raffuse S., Craig K., Wheeler N., Larkin N., Strand T., and Solomon R. (2011) Validation of modeled smoke plume injection heights using MISR and CALIPSO. Presented at the *2011 MISR Data Users Symposium, Pasadena, CA, December 14* (STI-4314).
- Raffuse S.M., McCarthy M.C., Craig K.J., DeWinter J.L., Jumbam L.K., and Lurmann F.W. (2011) High resolution MODIS aerosol retrieval during wildfire events in California for use in exposure assessment. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 9* (STI-4183).
- DeWinter J.L., Larkin N.K., Strand T.T., Raffuse S.M., Brown S.G., Craig K.J., and Roberts P.T. (2011) Synoptic scale patterns and variability in long-range transport from the CONUS to the Arctic Circle: informing controlled burn strategy and regulation. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 7* (STI-4184).
- DeWinter J.L., Raffuse S.M., Larkin N.K., Strand T.T., Brown S.G., Craig K.J., and Roberts P.T. (2011) Mitigating the impact of prescribed burning in the continental United States using trends in synoptic scale transport to the Arctic region. Presented at the *A&WMA Greenhouse Gas Strategies in a Changing Climate Specialty Conference, San Francisco, CA, November 16-17* by Sonoma Technology, Inc., Petaluma, CA, and U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-4148).
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CALIPSO. Poster presented at the *First Workshop on Satellite and Above Boundary Layer Observations for Air Quality Management, Boulder, CO, May 9.* (STI-4133).

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- 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. Poster presented at the *National Air Quality Conference, Raleigh, NC, March 15-18* by Sonoma Technology, Inc., Petaluma, CA, and the USDA Forest Service, Pacific Northwest Research Station, Seattle, WA (STI-3803).
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- Craig, K.J., Wheeler N.J.M., Reid S.B., Gilliland E.K., and Sullivan D.C. (2007) Development and operation of national CMAQ-based PM_{2.5} forecast system for fire management. Presented at the *Sixth Annual Community Modeling and Analysis System (CMAS) Conference, Chapel Hill, NC, October 1-3* (STI-3228).
- 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).
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- Wheeler N.J.M., Craig K.J., and Penfold B.M. (2006) Generating shapefiles from CMAQ, SMOKE, and CAMX files. Poster presentation for the *Community Modeling and Analysis System (CMAS) Conference, Chapel Hill, NC, October 16-18*, by Sonoma Technology, Inc., Petaluma, CA (STI-3008).
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- Erdakos G.B. and Craig K.J. (2021) Using EMFAC2021 for project-level assessment. Technical memorandum prepared for the California Department of Transportation, Sacramento, CA, by Sonoma Technology, Petaluma, CA, STI-917101-7555, July.
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- Baringer L.M, Craig K.J. (2020) Case study on preparing meteorological data for use in PM hot-spot analyses. Technical memorandum prepared for the California Department of Transportation, CTAQ-TM-19-368.06.04, STI-7099, July 23.

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- Houk J., Craig K., and Chang S.Y. (2020) MOVES modeling analysis for Johnson and Wyandotte counties, Kansas. Final report prepared for the Kansas Department of Health & Environment, Topeka, KS by Sonoma Technology, Petaluma, CA, STI-919054-7262, June 19.
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