

Journal Articles

- Kramer S.J., Huang S., McClure C.D., Chaveste M.R., and Lurmann F. (2023) Projected smoke impacts from increased prescribed fire activity in California's high wildfire risk landscape. *Atmospheric Environment*, doi: 10.1016/j.atmosenv.2023.119993, August 2. Available at <https://www.sciencedirect.com/science/article/pii/S1352231023004193>.
- McClure C.D., Pavlovic N.R., Huang S., Chaveste M., and Wang N. (2023) Consistent, high-accuracy mapping of daily and sub-daily wildfire growth with satellite observations. *International Journal of Wildland Fire*, 32(4), doi: 10.1071/WF22048, April.
- Chang S.Y., Huang J., Chaveste M., Lurmann F., Eisinger D., Mukherjee A., Erdakos G., Alexander M., and Knipping E. (2023) Electric vehicle fleet penetration helps address inequalities in air quality and improves environmental justice. *Communications Earth & Environment*, 4, doi: 10.1038/s43247-023-00799-1, April 22. Available at <https://www.nature.com/articles/s43247-023-00799-1>.
- Mukherjee A., Huang S., Chaveste M.R., Kramer S.J., Welch K.R., Moody T.J., Talhelm A.F., and Lottes A.M. (2021) Implementation of greenhouse gas benefit quantification for diverse forest management activities in a statewide program. (submitted), (STI-919033-7552).

Meeting Presentations, Webinars, and Conference Proceedings

- Kramer S.J., Huang S., Chaveste M.R., McClure C., and Lurmann F. (2023) Public Health Impact of McClure C.D., Huang S., and Chaveste M. (2023) Hourly Wildfire Growth Database Fusing Polar-Orbiting, Geostationary, and Multi-Agency Observations. Presentation given at the *AFE 10th International Fire Ecology and Management Congress – 2023 Fire Congress, Monterey, CA, December 7*, by Sonoma Technology, Petaluma, CA. STI-7953.
- Prescribed Fire (PHIRE) study – baseline and projected prescribed fire smoke exposures in California. Presented online as for the *AGU Atmospheric Science Section Early Career Committee for Science Seminar on Igniting Early Career Wildfire Studies, August 22*, by Sonoma Technology, Petaluma, CA. STI-7806.
- Kramer S.J., Huang S., Chaveste M.R., McClure C.D., and Lurmann F.W. (2023) Public Health Impact of Prescribed Fire (PHIRE) study – baseline and projected prescribed fire smoke exposures in California. Presentation given at the *103rd AMS Annual Meeting, Denver, CO, January 11*, by Sonoma Technology, Petaluma, CA. STI-7806.
- Pavlovic N., McClure C.D., Huang S., Chaveste M., and Wang N. (2022) Mapping hourly wildfire growth rate using fused geostationary and polar orbiting satellite observations. Presented at the *American Geophysical Union (AGU) Fall Meeting, Chicago, IL, December 12-16*, by Sonoma Technology, Petaluma, CA. STI-7773.
- Huang S., McClure C., Pavlovic N., Chaveste M., and Wang N. (2022) Consistent, high accuracy mapping of daily and sub daily wildfire growth using satellite observations. Presented at the *California Utility Forecasters Meeting, June 29*, by Sonoma Technology, Petaluma, CA. STI-7744.

- Huang S., Pavlovic N., McClure C., Chaveste M., and Wang N. (2022) Methodology for consistent daily and sub daily mapping of wildfire growth for 2003-2020 and beyond. Presentation given at the *Fire and Climate 2022 Conference, Pasadena, CA, May 26*, by Sonoma Technology, Petaluma, CA. STI-7730.
- Huang S., Mukherjee A., Chaveste M.R., Kramer S.J., Welch K.R., Moody T.J., Talhelm A.F., and Lottes A.M. (2022) Quantification of greenhouse gas benefits for diverse forest management activities in a statewide program. Presentation given at the *Fire and Climate 2022 Conference, Pasadena, CA, May 24*, by Sonoma Technology, Petaluma, CA, the California Department of Forestry and Fire Protection, Sacramento, CA, and the California Air Resources Board, Sacramento, CA. STI-7661.
- Kramer S.J., Huang S., Chaveste M.R., McClure C.D., and Lurmann F.W. (2021) Public Health Impact of Prescribed Fire (PHIRE) Study - baseline and projected prescribed fire smoke exposures in California. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-7572.
- Mukherjee A., Huang S., Chaveste M.R., Kramer S.J., Welch K.R., Moody T.J., Talhelm A.F., and Lottes A.M. (2021) Quantification of greenhouse gas benefit for diverse forest management activities in a statewide program. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-7575.
- McClure C.D., Pavlovic N.R., Huang S., Chaveste M.R., and Wang N. (2021) Consistent, high-accuracy mapping of daily and sub-daily wildfire growth with satellite observations. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-921020-7573.
- Pavlovic N., McClure C., Huang S., Chaveste M., and Wang N. (2021) Methodology for consistent daily and sub-daily mapping of wildfire growth for 2003-2020 and beyond. Presented at the *Association for Fire Ecology 9th International Fire Ecology and Management Congress, Virtual, December 3*, by Sonoma Technology, Petaluma, CA. STI-7643.
- Huang S., Mukherjee A., Chaveste M.R., Kramer S.J., Moody K.R.W.T.J., Talhelm A.F., and Lottes A.M. (2021) Quantification of greenhouse gas benefits for diverse forest management activities in a statewide program. Presented at the *Association for Fire Ecology, November 30 - December 3*, by Sonoma Technology, Inc., Petaluma, CA. STI-600600-7644.
- Huang S., Mukherjee A., Chaveste M.R., Kramer S.J., Moody K.R.W.T.J., Talhelm A.F., and Lottes A.M. (2021) Quantification of greenhouse gas benefits for diverse forest management activities in a statewide program. Presented at the *Society of American Foresters, virtual conference, November 3-6*, by Sonoma Technology, Inc., Petaluma, CA. STI-600600-7637.
- Huang S., Kramer S., Chaveste M., McClure C., and Lurmann F. (2021) Public health impact of prescribed fire (PHIRE) study - baseline and projected prescribed fire smoke exposures in California. Presentation given at the *Community Modeling and Analysis System virtual conference, November 1-5*, by Sonoma Technology, Inc., Petaluma, CA. STI-7597.

Formal Reports

- Marrero J.E., Schill S.R., Tai A.Y.C. and Chaveste M. (2023) Kern Energy Rule 4460 Fenceline Monitoring Q1 Report: January – March 2023. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7903, May.
- Marrero J.E., Schill S.R., and Chaveste M. (2023) Kern Oil & Refining Co. Rule 4460 Fenceline Monitoring Q4 Report: October – December 2022. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7853, February 10.
- Marrero J., Hafner H., and Chaveste M. (2022) Torrance Air final report. Prepared for the South Coast Air Quality Management District Advanced Monitoring Technologies Division by Sonoma Technology, Inc., Petaluma, CA, STI-918029-7824, December.
- Marrero J.E., Schill S.R., and Chaveste M. (2022) Kern Energy Rule 4460 Fenceline Monitoring Q3 Report: July - September 2022. Quarterly report prepared for Kern Energy, Bakersfield, CA by Sonoma Technology, Petaluma, CA, STI-921070-7808, October.
- McClure C., Wang N., Chaveste M., Pavlovic N., and Huang S. (2020) Remote sensing fire activity database with agency record integration for years 2003-2019. Technical memorandum prepared for Pacific Gas & Electric, San Francisco, CA by Sonoma Technology, Petaluma, CA, STI-920029-7286, September 15.
- Dunn M. and Penfold B. (2020) Forty-eighth quarterly report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: September 1, 2019-November 30, 2019. Prepared for the Planning Department, City of Los Angeles, and Los Angeles County Department of Regional Planning, Los Angeles, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-915026-7246, January 21.
- Smith K.M., Beamish J.J., Dunn M.R., Baxter R., and Bush P. (2019) South Coast Air Quality Management District upper-air stations surface meteorological data summary. Prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, and T&B Systems, Placerville, CA, STI-919032-7198, November 18.
- DeWinter J.L., Dunn M.R., McCarthy M.C., and Brown S.G. (2019) Evaluation of near-road air pollution at Environmental Justice (EJ) and non-EJ communities in the Greater Detroit area. Final report prepared for the Michigan Department of Environment, Great Lakes, and Energy by Sonoma Technology, Inc., Petaluma, CA, STI-916002-7171, October 11.