

California Climate Action Team – Public Health Workgroup

June 3, 2025 Meeting: Addressing the Health Impacts of Multiple Climate Change Stressors

Presentation Links / Resources:

CA Department of Public Health - Climate Change and Health Equity Branch:

- Climate Change and Health Equity webpage:
<https://www.cdph.ca.gov/Programs/OHE/pages/CCHEP.aspx>

Research and Resources from presenter Miriam Marlier:

- Research Article: C. Chen et. Al. 2024. Exploring spatial heterogeneity in synergistic effects of compound climate hazards: Extreme heat and wildfire smoke on cardiorespiratory hospitalizations in California: <https://pmc.ncbi.nlm.nih.gov/articles/PMC10836726/>

Research and Resources from presenter Austin Rau:

- Research Article: A. Rau et. al. 2025. Compound drought and heatwave extreme weather events: Mortality risk in individuals with chronic respiratory disease:
https://journals.lww.com/environepidem/fulltext/2025/06000/compound_drought_and_heatwave_extreme_weather.8.aspx
- Dissertation papers: <https://scholar.google.com/citations?user=YRzLz4MAAAAJ&hl=en>

Research and Resources from presenter Sarah Risher

- Safe Pregnancies in Extreme Heat:
<https://www.cdph.ca.gov/Programs/CFH/DMCAH/Pages/Health-Topics/Safe-Pregnancies-in-Extreme-Heat.aspx>
- Centering Black Mothers Report:
<https://www.cdph.ca.gov/Programs/CFH/DMCAH/Pages/Health-Topics/Centering-Black-Mothers.aspx>
- Temporal Trends of Racial and Socioeconomic Disparities in Population Exposures to Upstream Oil and Gas Development in California:
<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022GH000690>
- Residential Proximity to Oil and Gas Development and Birth Outcomes in California: A Retrospective Cohort Study of 2006–2015 Births:
<https://ehp.niehs.nih.gov/doi/full/10.1289/EHP5842>
- Living near oil and gas wells tied to low birth weights in infants:
<https://news.berkeley.edu/2020/06/03/living-near-oil-and-gas-wells-tied-to-low-birth-weights-in-infants/>
- The Effects of Coexposure to Extremes of Heat and Particulate Air Pollution on Mortality in California: Implications for Climate Change: <https://pmc.ncbi.nlm.nih.gov/articles/PMC9704834/>

Research and Resources from presenter Jeff Williams

- CARB Smoke Spotter App: <https://ww2.arb.ca.gov/resources/fact-sheets/california-smoke-spotter>
- AirNow / Checking Air Quality Index (AQI): <https://www.airnow.gov/>
- CARB Certified List of Air Cleaning Devices: <https://ww2.arb.ca.gov/list-carb-certified-air-cleaning-devices>
- CARB's Smoke Ready CA Home page - with info on AQI, masks, Do-It-Yourself/DIY Air Cleaners, and more: <https://ww2.arb.ca.gov/smokereadyca>
- CARB Wildfire Smoke Clean Air Center Grant program info: <https://ww2.arb.ca.gov/our-work/programs/wildfire-smoke-clean-air-center-grant/about>
- CA Clean Air Center Map: <https://ww2.arb.ca.gov/cleanaircenters>
- Low cost air pollution monitors: <https://www.epa.gov/indoor-air-quality-iaq/low-cost-air-pollution-monitors-and-indoor-air-quality>

Research and Resources from presenters Matt Wolff and Alex Morrison

- San Francisco - Heat and Air Quality Resilience (HAQR) Project: <https://www.sf.gov/resource--2024--heat-and-air-quality-resilience-haqr>

Research and Resources shared from audience members

- The Building Decarbonization Practice Guide published by the Worthen Foundation: <https://worthenfoundation.org/>
- Evaluating red tide effects on the West Florida Shelf using a spatiotemporal ecosystem modeling framework: <https://doi.org/10.1038/s41598-023-29327-z>