



Community Based Air Quality Monitoring Program- STL

East-West Gateway Presentation

Background

[Washington University Environmental Racism Report](#)

Missouri Foundation for Health Funded:

Partners with **Metropolitan Congregations United:**

Washington University: Jay Turner Lab

The Nature Conservancy

Washington University Environmental Studies Department

Congregations in St. Louis Region

Research and Development Support: Sierra Club



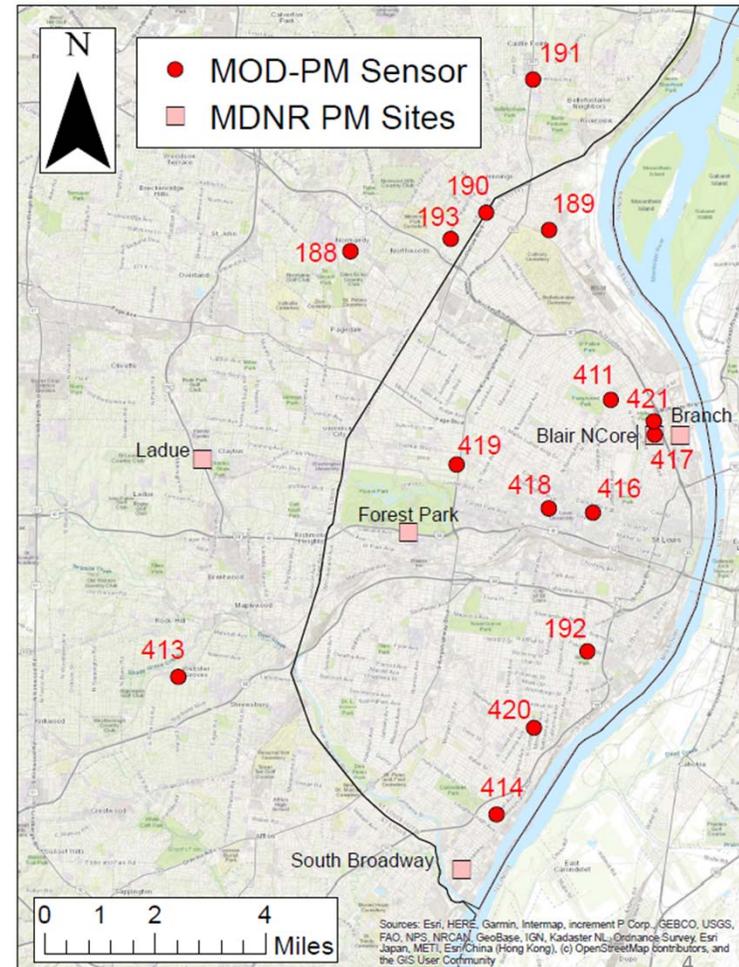
Monitors

- “Community Based” Air Quality Monitoring Program
- Goals:
 - Equitably, scientifically and strategically site air quality monitors at identified congregations throughout North and South St. Louis to fill the air quality data gap throughout the region.
 - Aims to promote Environmental Justice (EJ) to achieve health equity by addressing one of the leading urban environmental challenges outlined in the Environmental Racism in St. Louis report, **air quality!**

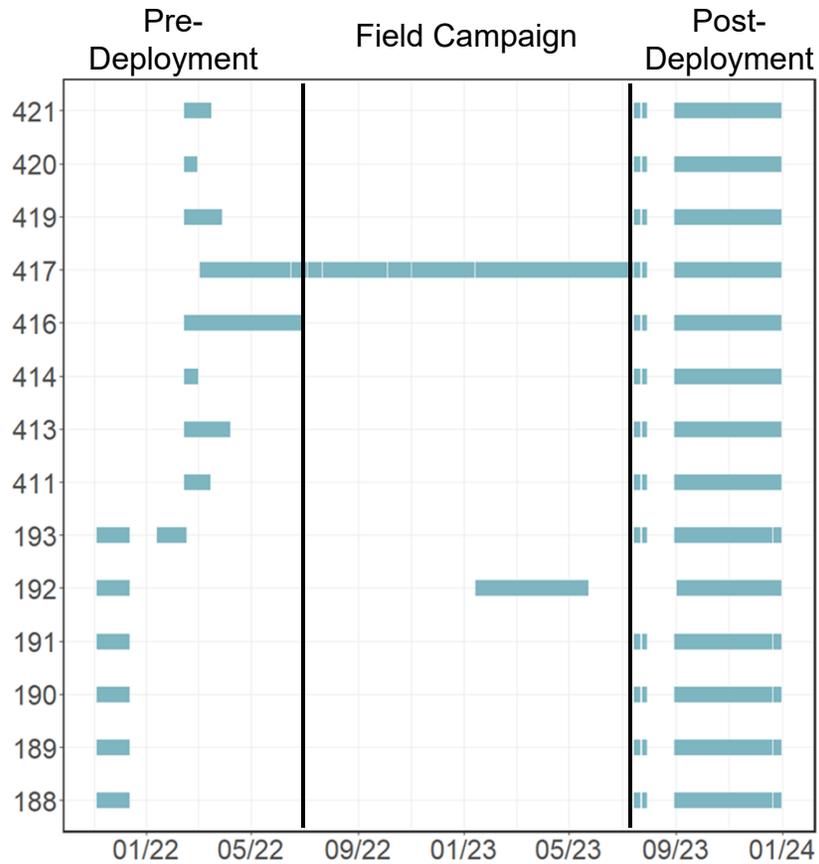


St. Louis Air Quality Monitoring Network:

QuantAQ
MODULAIR-PM



Collocation Studies



MOD-PM



Federal Equivalent Method (FEM)

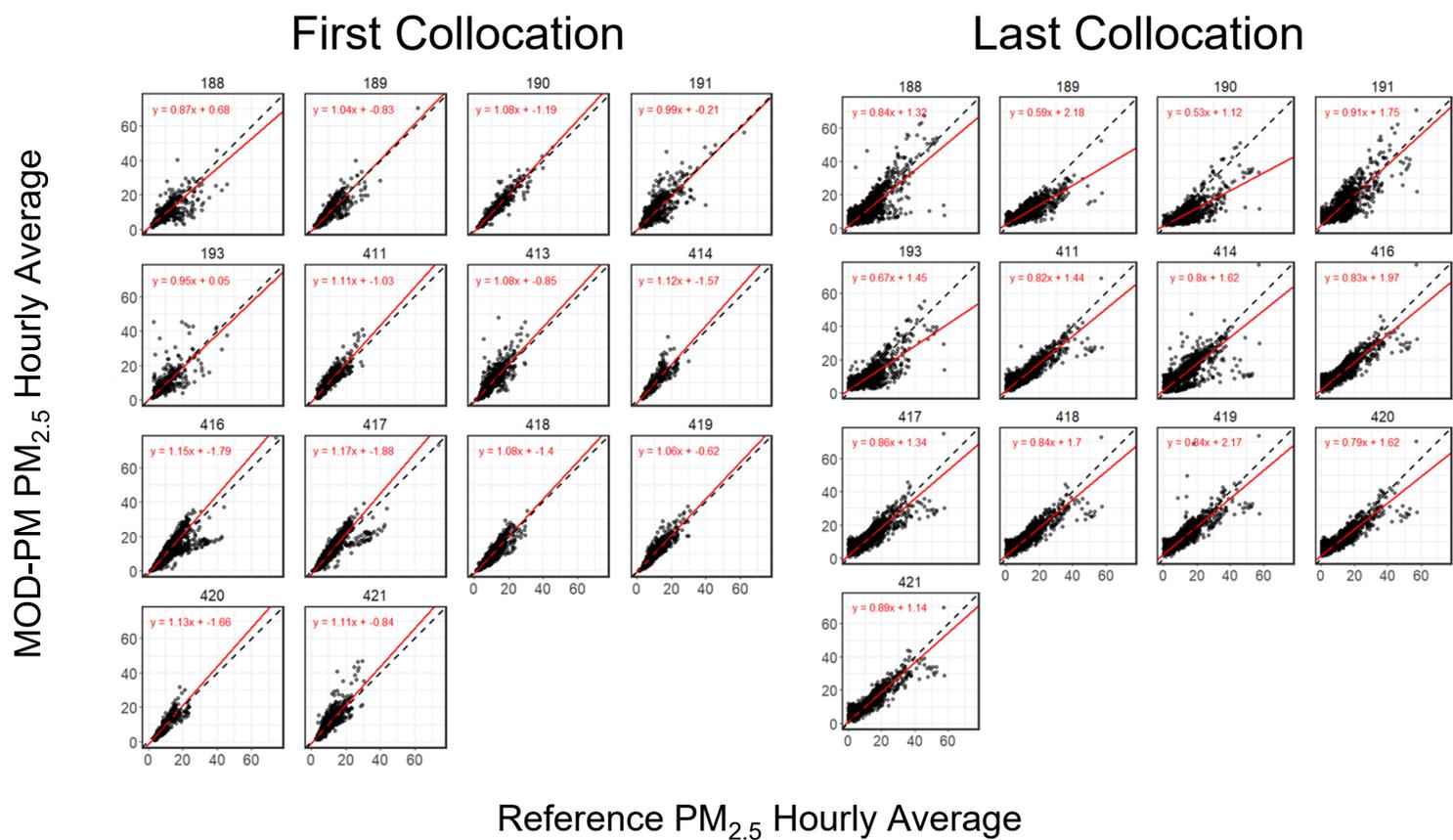


VS

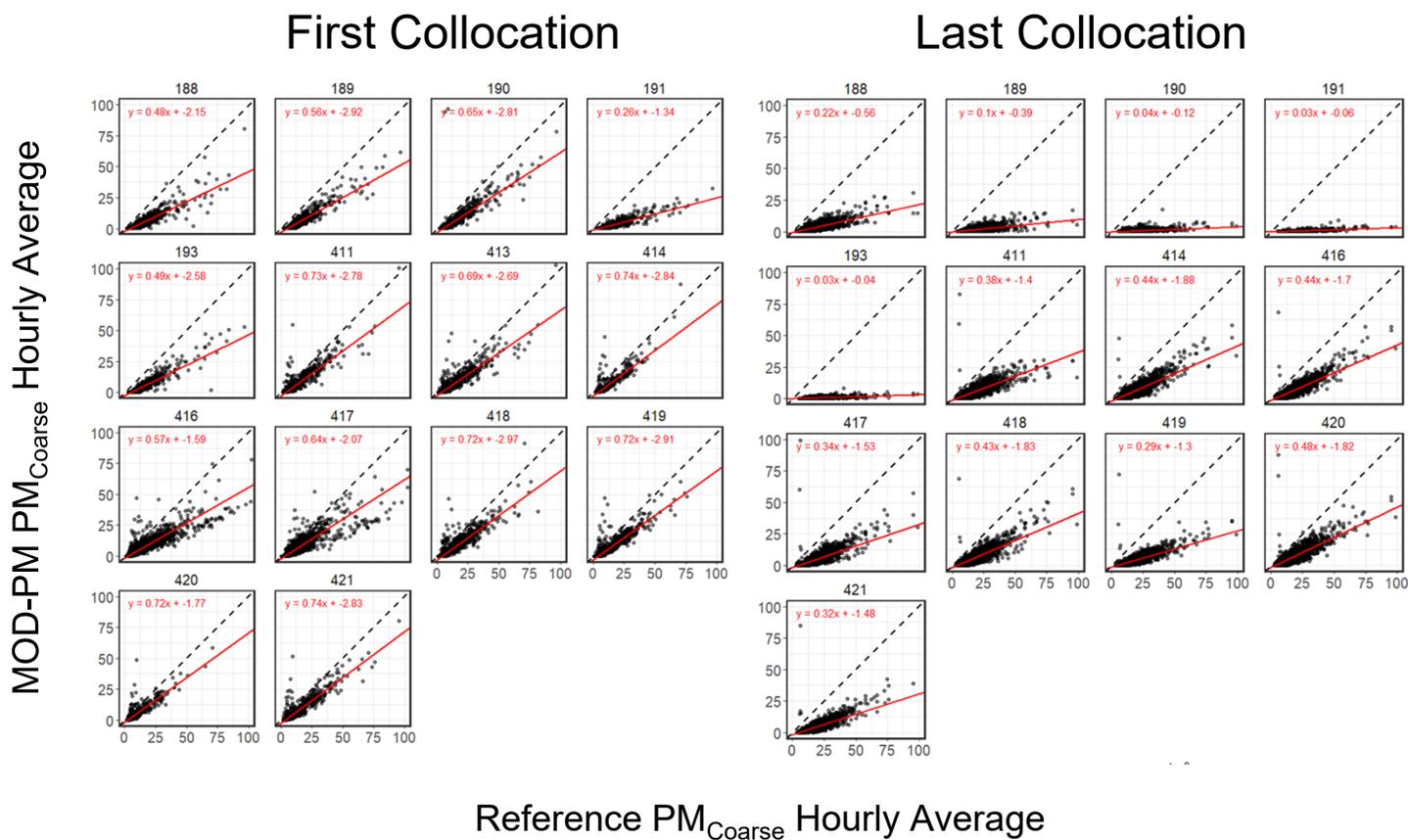


Blair NCore Site

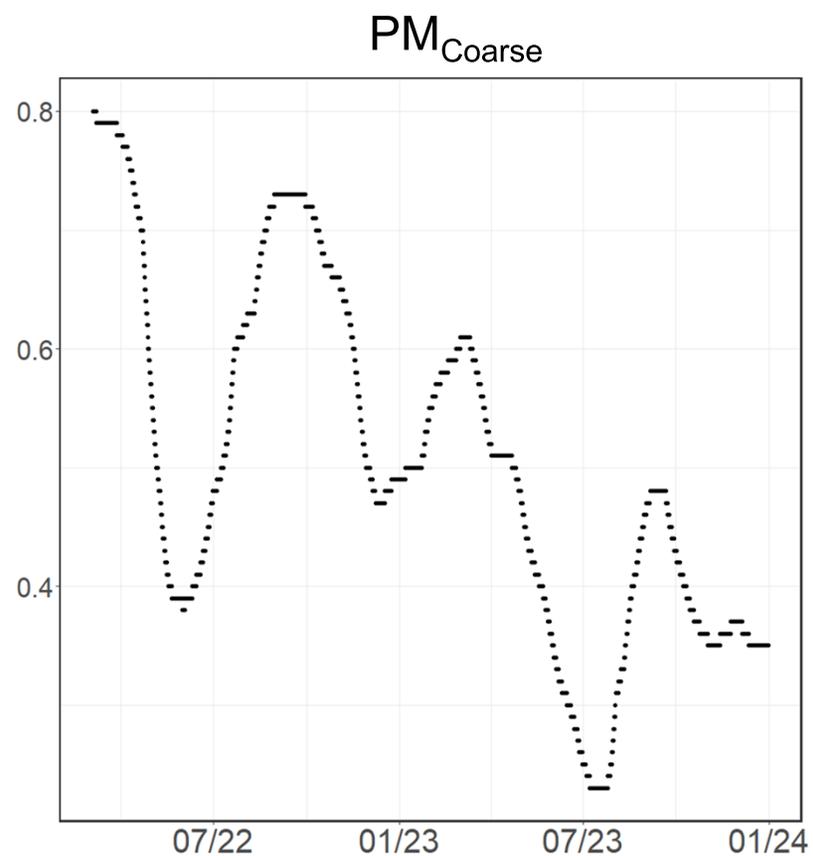
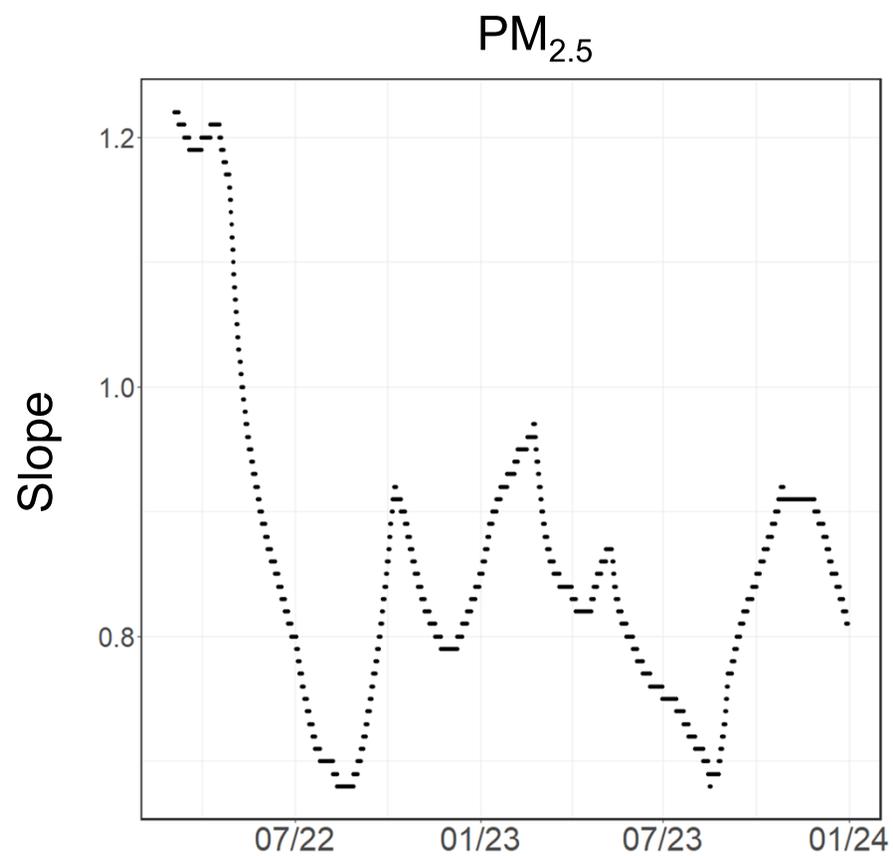
PM_{2.5} Measurements Show Negligible Signs of Drift



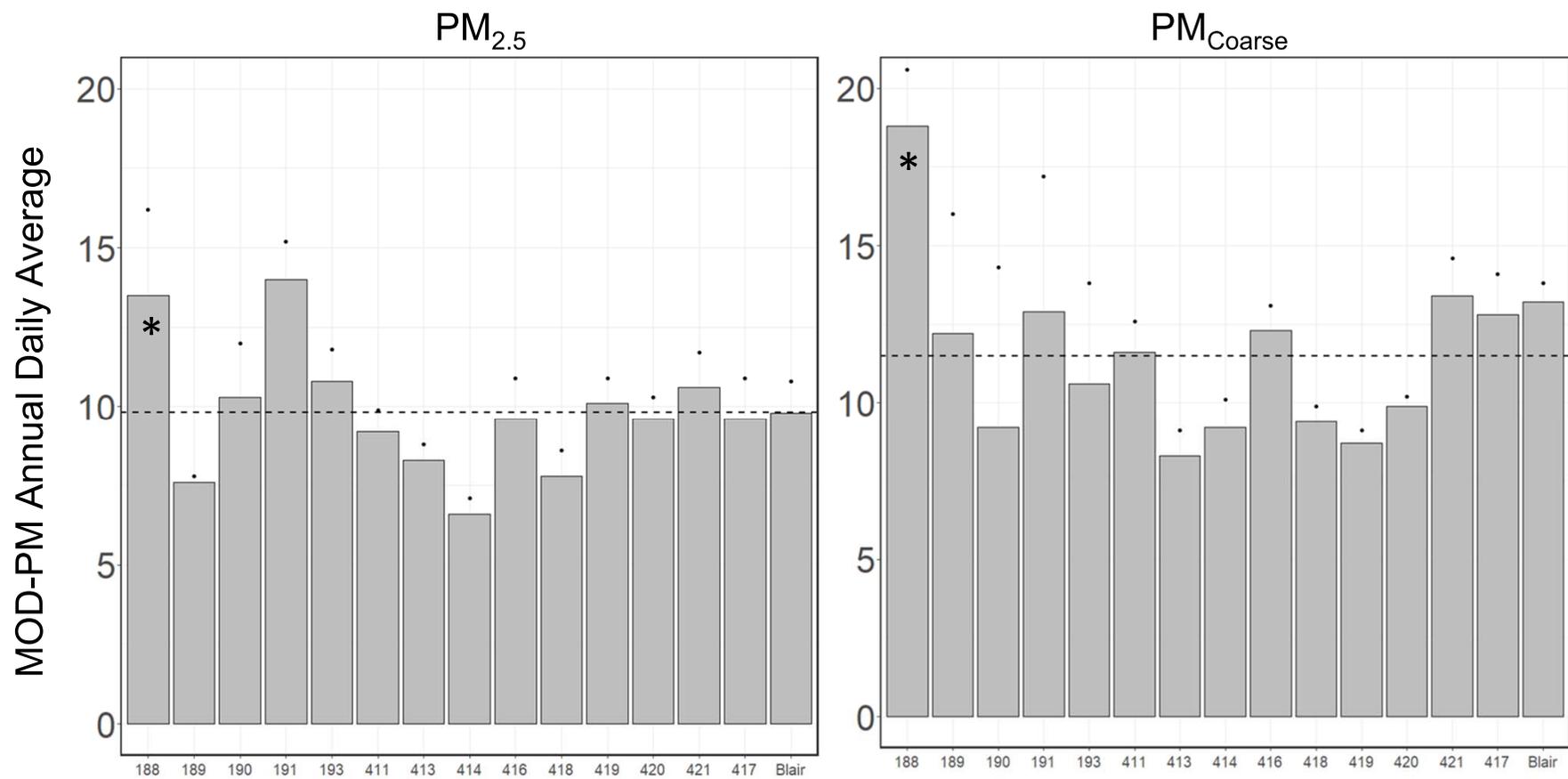
PM_{Coarse} Measurements Show Signs of Drift

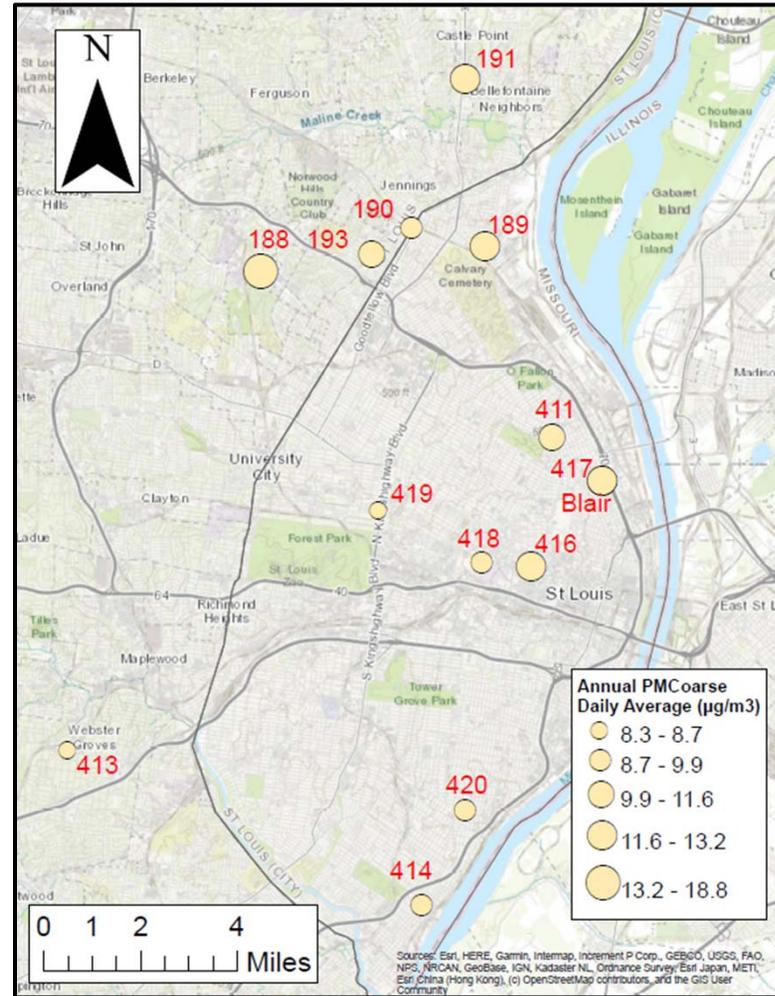
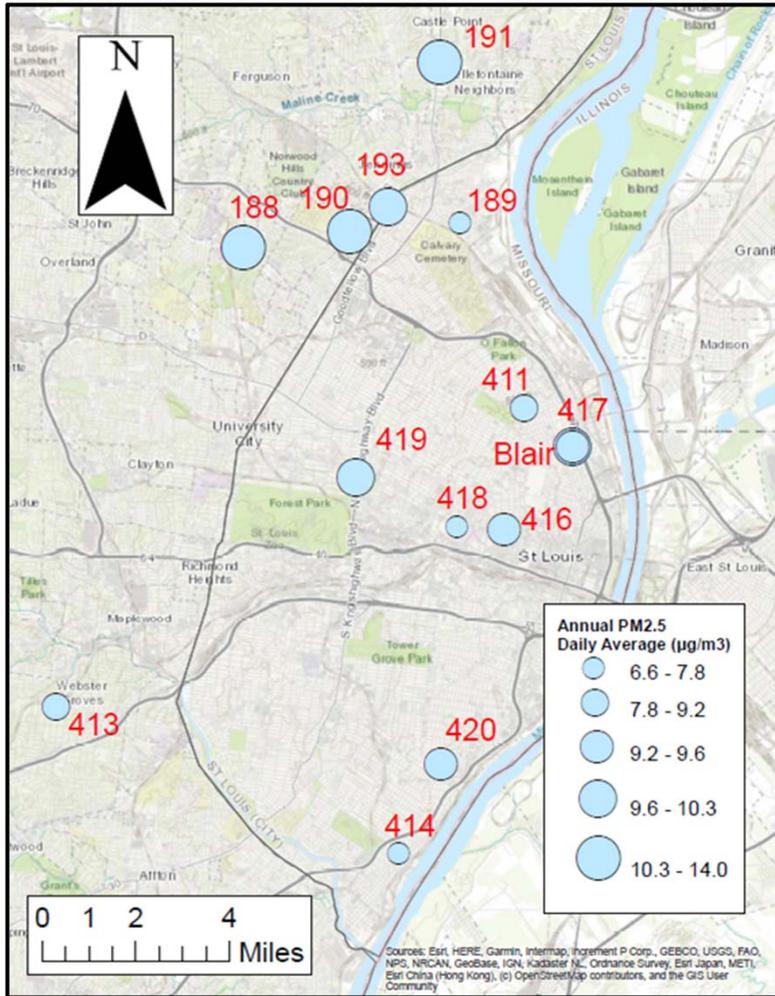


Changes in Long-Term Collocation Bias



PM Annual Daily Averages Show Spatial Variability





MCU Leaders Continue to Take Action

- a. April 25th in STL 9am Missouri Air Conservation Commission Meeting
 - i. Personal Testimony on Air Quality Concerns
- b. Support the MCU booth at EarthDay Festival April 20th or April 21st
 - i. <https://www.signupgenius.com/go/10C0E4CAEAA2EA1FAC43-47124058-mcustlearthdayfest#/>
- c. Monthly EJ Task Force Meeting 4/26 on Zoom
- d. Monthly MCU Membership Assembly in Person
- e. Regional - Partner with the Heartland Environmental Justice Center (HEJC)
- f. National Gamaliel Environmental Justice started in 2023 (EPA) -
Climate Change Resilience Hubs