Patrick Kinney – High Resolution Particulate Matter Data for Improved Satellite-Based Assessments of Community Health

THE LEADER

Patrick Kinney, the Beverly Brown Professor of Urban Health at Boston University’s School of Public Health, leads the Tiger Team that focuses on developing high resolution maps of air pollution concentrations and health impacts within communities across the U.S. As a trained air pollution epidemiologist, Patrick Kinney researches many issues related to the intersection of climate change, health, and policy. As a new member of HAQAST, leading this Tiger Team affirms that Patrick Kinney can provide innovative ideas and dedicated efforts for HAQAST contributions.

HAPPY COINCIDENCE

Leading this Tiger Team came as a happy “coincidence” to Patrick Kinney. During a brainstorming session at the HAQAST2 Meeting in Seattle, Washington, Patrick mentioned, “what about low-cost sensors”. With demonstrated excitement at this comment, it was natural that Patrick Kinney went on to lead this Tiger Team. Although it was challenging to transform this simple idea into a full Tiger Team project, the work has paid off. Patrick says it’s challenging but fun to be “coordinating such a large and diverse team”. Since innovation often comes from collaborations across diverse backgrounds, the Tiger Team has been well positioned for creative outputs.

PARTNER CONTRIBUTIONS

Patrick Kinney says, “partners provide a variety of roles”. The partnering air monitoring agencies provide formal access to their stations. Partner organizations also share data and perspectives that are necessary to complete the project. They communicate Tiger Team preliminary results with health managers and request feedback on methods or other concerns.

ACCOMPLISHMENTS

The hectic Tiger Team activity schedule requires essential coordination among team members. All members demonstrate dedicated to their project and task completion. Patrick Kinney makes sure to organize team efforts by holding monthly calls to delegate responsibilities as well as follow-up calls to make sure everyone is on task. These dedicated efforts yielded dividends when the team created maps of New York City with high-resolution estimates of urban-air-pollution concentrations and corresponding health impacts. Creating the high-resolution maps was a testament to the collective contributions of this Tiger Team.

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