



## HAQAST Massachusetts

*Meeting of the  
NASA Health and Air Quality Applied Sciences Team*

### Agenda

*June 4th and 5th, 2024*

*Massachusetts Institute of Technology, Cambridge, Massachusetts*

*Online via Zoom*

Webinar Room A: [Link to be added](#)

Webinar Room B: [Link to be added](#)

## **HAQAST and Health Effects Institute Early Career Health and Atmospheric Science Workshop**

**Monday, June 3<sup>rd</sup>**

**1:30 – 2:00 EDT Workshop Registration and Networking**

**2:00 – 5:00 EDT HEI-HAQAST Early Career Workshop**

**5:00 – 6:00 EDT Informal Networking – Location TBA – Open to All!**

## **HAQAST Massachusetts Meeting**

**Tuesday, June 4th**

**8:30 – 9:00 EDT Coffee and Networking**

**9:00 – 9:30 EDT Session 1A: Overview of NASA HAQAST (Room TBA, Webinar A)**  
*Arlene Fiore (HAQAST Member, Massachusetts Institute of Technology)*

*Tracey Holloway* (HAQAST Team Leader, University of Wisconsin-Madison)  
*John Haynes* (Program Manager, NASA Health and Air Quality Applications)  
Followed by Q&A

**9:30 – 10:15 Session 2A: Facilitating the Use of Satellite Data by the Novice User** (Room TBA, Webinar A)

Moderator: Jenny Bratburd

Featuring HAQAST PIs and Tiger Team Leads

This session will be a mini-showcase of HAQAST developed tools, datasets and methods, and highlight some examples for new users of new data from instruments like TEMPO.

**10:15 – 10:45 EDT Networking Break**

**10:45 – 12:15 EDT Session 2A and 2B**

Session 2A: Health and Air Quality Applications of TEMPO (Room TBA, Webinar A)

Moderator: Aaron Naeger (NASA Marshall / TEMPO Missions Application lead)

*Doug Boyer* and *Chola Regmi* (Texas Commission on Environmental Quality)

*Arlene Fiore* (HAQAST Member and Tiger Team Lead, Massachusetts Institute of Technology)

*Tracey Holloway* (HAQAST Team Lead, University of Wisconsin—Madison)

*Caroline Nowlan* (Harvard Smithsonian Astrophysical Observatory)

Session 2B: Adapting to Climate Change: Heat, Air Pollution, and Human Health (Room TBA, Webinar B)

Moderator: Daniel Tong (HAQAST Member, George Mason University)

*Chelsea Langer* (New Mexico Department of Health)

*Jingqiu Mao* (HAQAST Member, University of Alaska, Fairbanks)

*Sheri Schully* (National Institute of Health)

*Chris Uejio* (HAQAST Member, Florida State University)

**12:15 – 1:30 EDT Lunch Break (on your own)**

**1:30 – 2:45 EDT Session 3A and 3B**

Session 3A: Emerging Ground Networks for Satellite Data Integration (Room TBA, Webinar A)

Moderator: Ted Russell (HAQAST Member and Tiger Team Lead, Georgia Institute of Technology)

*Jeff Geddes* (Boston University)

*Pawan Gupta* (HAQAST Member, NASA Goddard Space Flight Center)

*Sarah Kroening* (Children's Health Alliance of Wisconsin)

*Randall Martin* (HAQAST Member, Washington University in St. Louis)

*Dan Westervelt* (Columbia University)

Session 3B: How Satellite Data Can Inform Fires, Exceptional Events Demonstrations, and New Standards (Room TBA, Webinar B)

Moderator: Susan Anenberg (HAQAST Member, George Washington University)

*Yang Liu* (HAQAST Member and Tiger Team Lead, Emory University)

*Leif Paulson* (Wyoming Department of Environmental Quality)

*Amber Soja* (HAQAST Member, National Institute of Aerospace, NASA Langley Research Center)

*Malcolm Zachariah* (Oklahoma Department of Environmental Quality)

**2:45 – 3:15 EDT Networking Break**

**3:15 – 4:30 EDT Session 4A and 4B**

Session 4A: TROPOMI-OMI Meeting Crossover: 20 years of NO<sub>2</sub> applications from OMI and TROPOMI (Room TBA, Webinar A)

Moderator: Arlene Fiore (HAQAST Member and Tiger Team Lead, Massachusetts Institute of Technology)

*Ellen Burkhard* (New York State Energy Research and Development Authority)

*Bryan Duncan* (HAQAST Member, NASA Goddard Space Flight Center)

*Michael Geigert* (Connecticut Department of Energy and Environmental Protection)

*Dan Goldberg* (George Washington University)

**4:30 – 4:40 EDT Poster Introductions**

**4:40 – 6:30 EDT Flash Talk and Poster Session**

**Wednesday, June 5th**

**8:30 – 9:00 EDT Coffee and Networking**

**9:00 – 10:00 EDT Session 5A and 5B**

Session 5A: Satellite Data for Climate Change Decision Making: Measuring Greenhouse Gas Emissions and Air Quality Co-Benefits (Room TBA, Webinar A)

Moderator: Chris Uejio (HAQAST Member, Florida State University)

*Susan Anenberg* (HAQAST Member, George Washington University)

*Shanna Combley* (NASA HQ)

*Eric Choi* (GHGSat)

*Libby Mohr* (Environmental Defense Fund)

*Ted Russell* (HAQAST Member and Tiger Team Lead, Georgia Institute of Technology)

Session 5B: Satellite Data for Global Air Quality and Health (Room TBA, Webinar B)

Moderator: Pawan Gupta (HAQAST Member, NASA Goddard Space Flight Center)

*Kevin Cromar* (New York University)  
*Dohyung Kim* (UNICEF)  
*Marianthi-Anna Kioumourtzoglou* (Columbia University)  
*Pallavi Pant* (Health Effects Institute)

**10:00 – 10:10 EDT Break**

**10:10 – 11:10 EDT Session 6**

Session 6A: Environmental Justice: Data Needs to Protect Health of At-Risk Populations  
(Room TBA, Webinar A)

Moderator: Yang Liu (HAQAST Member and Tiger Team Lead, Emory University)

*Kilan Bishop* (American Cancer Society)

*Jesse Marquez* (Coalition For A Safe Environment)

*Jeff Pierce* (HAQAST Member, Colorado State University)

*Qian Xiao* (HAQAST Member and Tiger Team Lead, University of Texas Health  
Science Center at Houston)

Session 6B: Calculating Long-Range Pollution Transport and Forecasting Air Pollution  
(Room TBA, Webinar B)

Moderator: Bryan Duncan (HAQAST Member, NASA Goddard Space Flight Center)

*Byeong-Uk Kim* (Georgia Environmental Protection Division)

*Brad Pierce* (HAQAST Tiger Team Lead, University of Wisconsin—Madison)

*Monica Soucier* (Imperial County Air Pollution Control District)

*Daniel Tong* (HAQAST Member, George Mason University)

**11:15 – 12:15 EDT Session 7**

Session 7: Closing Remarks and HAQAST Ambassador Perspectives: Using New  
Satellite Data to Improve Health and Air Quality Monitoring (Room TBA, Webinar A)

Moderator: Tracey Holloway (HAQAST Team Lead, University of Wisconsin—  
Madison)

Featuring HAQAST Ambassadors

***End of Public Meeting***

**12:30 – 3:30 EDT HAQAST Team Meeting** (Room TBA)

HAQAST team members and investigators

**About HAQAST**

HAQAST is a collaborative team that works in partnership with public health and air quality agencies across the globe to use NASA data and tools for the public benefit. We have 14 primary investigators and scores of co-investigators from across the U.S., along with short-term, high-impact collaborative efforts called Tiger Teams.