Thank you!
Many thanks go to...

All things HAQAST4: Daegan Miller & Rhianna Miles

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HAQAST Supports 2 Types of Projects: Individual & Tiger Team

Sept. 2016

Sept. 2017

Sept. 2018

Sept. 2019

Now =

• 2/3 through individual projects
• End Year 1 Tiger Teams
• Start Year 2 Tiger Teams

13 HAQAST Members’ Proposed Initiatives with stakeholders & Co-I collaborators

Year 1 “Tiger Teams”
4 larger collaborations
Focused, stakeholder-based, short-term

Year 2 “Tiger Teams”
... just announced
Past

• Building on AQAST success with US AQM ... growing health engagement
• ~30 publications so far + software + data + algorithms
• Quasi-monthly Tiger Team meetings with stakeholders
• 3 new guidance documents for SIPs
• 4 discussion-based meetings, format based on attendee reviews;
• Ongoing conversations with NASA + stakeholders to advance HAQAST-related initiatives
• 2 Tiger Team reviews, all reviewed by stakeholders (8-10 stakeholders per review
• 642 newsletter subscribers via MailChimp
• 3800+ Twitter followers; 3000 discrete visitors to haqast.org
• Outreach websites airquality.gsfc.nasa.gov & http://cimss.ssec.wisc.edu/education/gl/ttnox
• Tutorials, how-to’s, annotated resource guide
Mission Statement

Our goal is to show how satellite data of air pollution may be used for health, air quality, and agricultural/food security applications.

On this site, you’ll find:

- downloadable factsheets (coming soon) on how satellite data are used in health research and air quality applications, including food security. Here are two draft examples:
- downloadable images and animations of air pollutants observed from space, including ones that demonstrate the efficacy of the U.S. Clean Air Act
- numerous resources for data users
- general information on air pollution
- answers to frequently-asked questions (FAQs)

We also provide examples of how health researchers and air quality managers are currently using satellite data. For further examples, please visit the website of the NASA Health and Air Quality Applied Sciences Team (HAQAST), which has the goal to facilitate the use of NASA satellite data by the health and air quality communities.

https://airquality.gsfc.nasa.gov
Connecting to Stakeholders: PI Brad Pierce gave a briefing on the 2017 Lake Michigan Ozone Study to the Business Advocacy Committee of the Sheboygan County Chamber of Commerce in Sheboygan, Wisconsin on April 7, 2017. The briefing discussed the objectives and measurement strategy used to characterize the recirculation, aging, and mixing of the Chicago and Milwaukee urban plumes as they move over Lake Michigan and their impact on surface ozone along the shore of Lake Michigan.
View the slides: Lake Michigan Ozone Study Brief to Sheboygan County Chamber

LMOS 2017 story on the WPR Blog: A Wisconsin Public Radio interview of some the 2017 Lake Michigan Ozone Study (LMOS 2017) science leads aired on June 22, 2017, which was also that last day of the LMOS 2017 field campaign. An on-line version of the interview is available at https://www.wpr.org/ozone-study-along-lake-michigan-seeks-answers-pollutant-drift

On-Air Interview: Brad Pierce was invited to an-on-air interview at the Wisconsin Public Radio (WPR) studios in Madison, Wisconsin on August 10, 2017 to discuss the 2017 Lake Michigan Ozone Study (LMOS 2017) with the hosts of WPRs Central Times. Listen at https://www.wpr.org/study-examines-cause-high-ozone-levels-near-sheboygan
Present (now → 2019)

- 5+ major in-person meetings (Madison, Vermont, DC, Phoenix, Phoenix, DC)
- Rapidly growing publication list → Many getting media coverage
  
  [Note to HAQAST: Email Tracey/Daegan your pubs]
- New work/guidance on TROPOMI
- New guidance documents on haqast.org
- 4 Tiger Teams wrapping up; 4 new starting
- Ongoing conversations with NASA + stakeholders to advance HAQAST-related initiatives
- Final surveys of community perspectives on satellites for air quality and health & final report

January 3-4
HAQAST5
MARICOPA COUNTY AZ
ASU

January 6-10
AMS

July 2019
HAQAST6
NASA

AUGUST 1 SUBMISSION DEADLINE

AUGUST 1 SUBMISSION DEADLINE
New Directions for Satellite Data: Applications in Health, Air Quality, Environmental Management, and Public Outreach

Host: 10th Conference on Environment and Health
Cochairs: Michael Newchurch, University Of Alabama in Huntsville; Tracey Holloway, Univ. of Wisconsin; Susan Alexander, University of Alabama in Huntsville; Yang Liu, Emory Univ.

AUGUST 1 SUBMISSION DEADLINE
Future – 2019 and beyond
How can we link NASA science with your organization?

**Unaware**: What NASA data?

**Uninterested**: I don’t think that NASA data are useful to me.

**Curious**: I wonder if those NASA data could be useful to me?

**Engaged**: I’d like to start using those NASA data.

**Enthusiastic**: These NASA data are indispensable! Thanks, HAQAST!!
Future – 2019 and beyond

• Stakeholders using satellite data
• Relationships and awareness
• Knowledge, tools, resources developed
• Guidance documents available for future use
• Public data portals continue through NASA and other agencies (RSIG, Giovanni, KNMI, etc.)
• TROPOMI, TEMPO, GEMS, Sentinel-5
• Continue NASA Applied Sciences Support → HAQASTv2?