## Air Quality, Wildfires, and Respiratory Health Work Group

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## Air Quality, Wildfires & Respiratory Health Work Group Goals

This work group aims to <u>identify and disseminate recent advances</u> in air quality applications of Earth observations, including geostationary satellites, small-sats, and data fusion, and the <u>application of these tools</u> to advance management and decision-making related to <u>health</u> through <u>targeted presentations to practitioners</u> and <u>publicly-available reporting</u>.

Group Mailing List: 76 (representing 12 countries)
Monthly Meeting Attendance: 22-25



## Air Quality, Wildfires & Respiratory Health Work Group Accomplishments

- April: Kick-off meeting, discussion of plans
- May: Geostationary Satellite Data for Air Quality (TEMPO, GOES, GEMS)
  - Aaron Naeger (NASA), Shobha Kondragunta (NOAA), Jhoon Kim (Yonsei University)
- June: Smallsats for Air Quality and Health (TANGO, NACHOS, TOMCAT)
  - Manvendra Dubey (LANL), Jochen Landgraf (Netherlands Institute for Space Research), John Yorks (NASA)
- July: New Aerosol Missions and their Health Applications (PACE, MAIA)
  - Natasha Sadoff (NASA), Sina Hasheminassab (NASA JPL)
- August: Pollutant Tracers and Indicators (Formaldehyde, Carbon Monoxide)
  - Amir Souri (NASA), Lindsey Anderson (University of Colorado, Boulder)
- September: Satellite Aerosols and Smoke (MAIAC, nighttime AOD)
  - Alexei Lyapustin (NASA), Meng Zhou (University of Iowa)
- October: Data Fusion and Exposure Products (Global PM<sub>2.5</sub> and constituents)
  - Randall Martin (Washington University in St. Louis)
- November: Health Studies and Environmental Justice (Warehouse Emissions & Prison Exposures)
  - Gaige Kerr (George Washington University), Ufuoma Ovienmhada (Massachusetts Institute of Technology)
- November: Hosted Community of Practice Work Group Telecon
  - Bryan Duncan (NASA), Susan Anenberg (George Washington University)

Meeting Recordings and Slides available in Publically Accessible Drive, Meeting Notes in Shared Document



## Air Quality, Wildfires & Respiratory Health Work Group Needs & Next Steps

- Continue meetings to share new developments in the use of earth observations to support air quality and health applications with the community.
- Work with HAQAST, NASA Earthdata, and others to update their data resources and tools flowcharts.
- Translate short regionally-specific guides into other languages (as time & resources allow).
- Identify gaps in existing earth observation resources and products for health and air quality applications, summarize via white paper.

