



Agenda
Health and Air Quality Applications Program Review
March 29-30, 2023
Asheville, NC

Wednesday, March 29, 2023
Day 1

- 8:30 a.m. – 9:00 a.m.** **Coffee**
- 9:00 a.m. – 9:30 a.m.** **Session 1: Welcome and Overview**
Speaker: John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 9:30 a.m. – 10:00 a.m.** **State Perspective**
Speakers: Ashley Featherstone, Asheville-Buncombe Air Quality Agency, and Evan Couzo, University of North Carolina-Asheville
- 10:00 a.m. – 10:30 a.m.** **Partner Address: Centers for Disease Control and Prevention**
Speaker: Fuyuen Yip, Environmental Health Tracking Section
- 10:30 a.m. – 10:50 a.m.** **Networking Break**
- 10:50 a.m. – 11:10 a.m.** **Highlights from Communications**
Speaker: Aries Keck, Applied Sciences Communications, NASA Headquarters
- Session 2: Air Quality Projects**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 11:10 a.m. – 11:25 a.m.** **A. Enhancing Air Quality Decision-making Activity in Indian Megacities through Assimilation of NASA Earth Observations and Development of a Decision Support System**
Speaker: Rajesh Kumar, University Corporation for Atmospheric Research
- 11:25 a.m. – 11:40 a.m.** **B. Supporting Local Government Public Health and Air Quality Decision-making with a Sub-city Scale Air Quality Forecasting System from Data Fusion of Models, Satellite, In situ Measurements, and Low-cost Sensors**
Speaker: Carl Malings, Morgan State University/NASA Goddard Space Flight Center

- 11:40 a.m. – 11:55 a.m.** **C. Enrich and Enhance the Application of TEMPO and GEOS Data Products for Regional Air Quality and Public Health Management under Smoke Conditions**
Speaker: Megan Christiansen, University of Iowa
- 11:55 a.m. – 12:10 p.m.** **D. Improving Air Quality State Implementation Plans using Land Surface Remote Sensing**
Speaker: Fan Wu, Pennsylvania State University
- 12:10 p.m. – 12:25 p.m.** **E. Identifying Public Health Applications of Satellite-derived Drought Indicators: Improved Monitoring for Respiratory Health**
Speaker: Jesse Bell, University of Nebraska Medical Center
- 12:25 p.m. – 1:45 p.m.** **LUNCH – On your own**
- Session 3: Health Projects**
Moderator: Helena Chapman, Associate Program Manager, NASA Health and Air Quality Applications, NASA Headquarters/Booz Allen Hamilton
- 1:45 p.m. – 2:00 p.m.** **A. Assimilation of Earth Observations to Improve and Enhance Global Predictive Ability of Forecasting Risk of Cholera Outbreaks**
Speaker: Antarpreet Jutla, University of Florida
- 2:00 p.m. – 2:15 p.m.** **B. Quantifying Distributional Health Damages of Extreme Weather Events**
Speaker: Julia Gohlke, Virginia Polytechnic Institute & State University
- 2:15 p.m. – 2:30 p.m.** **C. Neighborhood-scale Extreme Humid Heat Health Impacts**
Speaker: Peter Kalmus, Jet Propulsion Laboratory
- 2:30 p.m. – 2:45 p.m.** **D. MEDINA: Machine Learning, Climate Variability and Disease Dynamics**
Speaker: Stephanie Schollaert Uz, NASA Goddard Space Flight Center
- 2:45 p.m. – 3:00 p.m.** **E. Getting to Zero: Satellite Informed System to Support Elimination of Malaria in the Americas (SISTEMA)**
Speaker: Mark Janko, University of North Carolina-Chapel Hill
- 3:00 p.m. – 3:20 p.m.** **Networking Break**
- 3:20 p.m. – 4:30 p.m.** **Strategic Discussion**
Moderator: John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 4:30 p.m.** **Adjourn**
- 5:00 p.m. - 6:30 p.m.** **Dinner Options (Individually paid)**
- 7:00 p.m.** **Excursion (Individually paid)**

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March 30, 2023
Day 2

- 8:30 a.m. – 9:00 a.m.** **Coffee**
- Session 4: Highlights from HAQAST, ASDC, ARSET & DEVELOP**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 9:00 a.m. – 9:20 a.m.** **Health and Air Quality Applied Sciences Team (HAQAST) Report**
Speaker: Jenny Bratburd, HAQAST Communications Coordinator
- 9:20 a.m. – 9:40 a.m.** **Activities at the NASA Atmospheric Science Data Center**
Speaker: Matt Tisdale, NASA ASDC
- 9:40 a.m. – 9:55 a.m.** **Highlights from NASA Capacity Building: DEVELOP**
Speaker: Kathryn Caruso, NASA DEVELOP
- 9:55 a.m. – 10:20 a.m.** **Networking Break**
- 10:20 a.m. – 10:40 a.m.** **Prizes and Challenges / Environmental Justice Projects**
Speaker: Shobhana Gupta, NASA Headquarters
- 10:40 a.m. – 10:50 a.m.** **TEMPO Update**
Speaker: Aaron Naeger, University of Alabama in Huntsville
- 10:50 a.m. – 11:00 a.m.** **MAIA Update**
Speaker: Aaron Naeger, University of Alabama in Huntsville
- Session 5: Final Presentation of HAQ Projects**
Moderators: Helena Chapman and Laura Judd, Associate Program Managers, NASA Health and Air Quality Applications
- 11:00 a.m. – 11:10 a.m.** **A. A Geospatial Surveillance and Response System Resource for Vector borne Disease in the Americas**
Speaker: Moara Rodgers, Louisiana State University
- 11:10 a.m. – 11:20 a.m.** **B. Predictive Assessment of Transmission Conditions of Cholera in the Environment and Human Population using Earth Observations**
Speaker: Antarpreet Jutla, University of Florida
- 11:20 a.m. – 11:30 a.m.** **C. President’s Malaria Initiative**
Speaker: John Painter, Centers for Disease Control and Prevention
- 11:30 a.m. – 11:40 a.m.** **D. Improving Malaria Decision Support with Earth Observations**
Speaker: John Beck, University of Alabama in Huntsville

- 11:40 a.m. – 11:50 a.m.** E. Preparing Key State and Local Health and Air Quality Agencies for Upcoming Earth Observations
Speaker: Yang Liu, Emory University
- 11:50 a.m. – 12:00 p.m.** **Networking Break**
- 12:00 p.m. – 1:00 p.m.** **Town Hall: Discussion of Future Goals, Partnerships, and Opportunities**
Moderator: John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 1:00 PM** **Adjourn**