



Agenda
Health and Air Quality Applications Program Review
April 23-24, 2024
Jackson, WY

Tuesday, April 23, 2024
Day 1

- 8:30 a.m. – 9:00 a.m.** **Coffee and Networking**
- 9:00 a.m. – 9:30 a.m.** **Session 1: Welcome and Overview**
Speaker: John Haynes, Program Manager, Health and Air Quality Applications, NASA Earth Action Program, NASA Headquarters
- 9:30 a.m. – 10:00 a.m.** **State Perspective**
Speaker: Amber Potts, Wyoming Department of Environmental Quality, Cheyenne, Wyoming
- 10:00 a.m. – 10:30 a.m.** **Partner Address: Centers for Disease Control and Prevention**
Speaker: Patrick Wall, Environmental Health Tracking Section
- 10:30 a.m. – 10:50 a.m.** **Networking Break**
- Session 2: Air Quality Projects**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 10:50 a.m. – 11:05 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
- 11:05 a.m. – 11:20 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: K. Emma Knowland, Morgan State University/NASA Goddard Space Flight Center
- 11:20 a.m. – 11:35 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: Jun Wang, University of Iowa

- 11:35 a.m. – 11:50 p.m.** **D. Improving Air Quality State Implementation Plans using Land Surface Remote Sensing**
Speaker: Kenneth Davis, Pennsylvania State University
- 11:50 p.m. – 12:05 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
- 12:05 p.m. – 12:20** **Q&A Discussion**
- 12:20 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. MEDINA: Machine Learning, Climate Variability and Disease Dynamics**
Speaker: Assaf Anyamba, Oak Ridge National Laboratory
- 2:00 p.m. – 2:15 p.m.** **B. Assimilation of Earth Observations to Improve and Enhance Global Predictive Ability of Forecasting Risk of Cholera Outbreaks**
Speaker: Antarpreet Jutla, University of Florida
- 2:15 p.m. – 2:30 p.m.** **C. Quantifying Distributional Health Damages of Extreme Weather Events**
Speaker: Julia Gohlke, Virginia Polytechnic Institute & State University
- 2:30 p.m. – 2:45 p.m.** **D. Neighborhood-scale Extreme Humid Heat Health Impacts**
Speaker: Peter Kalmus, Jet Propulsion Laboratory
- 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: William Pan, Duke University
- 3:00 p.m. – 3:20 p.m.** **Networking Break**
- 3:20 p.m. – 4:00 p.m.** **Strategic Discussion**
Moderator: John Haynes, Program Manager, Health and Air Quality Applications, NASA Earth Actions Program, NASA Headquarters
- 4:00 p.m.** **Adjourn**
- 5:00 p.m. – 7:00 p.m.** **Excursion (Individually paid)**
7:00 p.m. **Dinner Options (Individually paid)**



**April 24, 2024
Day 2**

- 8:30 a.m. – 9:00 a.m.** **Coffee and Networking**
- Session 4: Highlights from HAQAST, ASDC & Capacity Building**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 9:00 a.m. – 9:25 a.m.** **Health and Air Quality Applied Sciences Team (HAQAST) Report**
Speaker: Jenny Bratburd, HAQAST Outreach Coordinator
- 9:25 a.m. – 9:50 a.m.** **Activities at the NASA Atmospheric Science Data Center**
Speaker: Hazem Mahmoud, NASA ASDC
- 9:50 a.m. – 10:20 a.m.** **Highlights from NASA Capacity Building: ARSET, DEVELOP, Indigenous Peoples Initiative, and SERVIR**
Speakers: Aaron Naeger, NASA Marshall Space Flight Center, and Xia Cai, NASA Langley Research Center
- 10:20 a.m. – 10:35 a.m.** **Networking Break**
- 10:35 a.m. – 10:50 a.m.** **TEMPO Update**
Speaker: Aaron Naeger, NASA Marshall Space Flight Center
- 10:50 a.m. – 11:05 a.m.** **MAIA Update**
Speaker: Aaron Naeger, NASA Marshall Space Flight Center, and Amber Jenkins, Jet Propulsion Laboratory
- 11:05 a.m. – 11:30 a.m.** **2023-2024 Airborne Air Quality Science Activities**
Speaker: Laura Judd, NASA Langley Research Center
- 11:30 a.m. – 12:15 p.m.** **Town Hall: Discussion of Earth Action Opportunities**
Moderator: John Haynes, Program Manager, Health and Air Quality Applications, NASA Earth Action Program, NASA Headquarters
- 12:15 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 Earth Action Program, NASA Headquarters
- 1:00 PM** **Adjourn**