



Agenda
Health and Air Quality Applications Program Review
October 12 & 20, 2021 (EDT)

Day 1: October 12, 2021

- 12:00 p.m. – 12:05 p.m.** **Instructions to Presenters and Reminders**
Helena Chapman and Laura Judd, Associate Program Managers, NASA
Health and Air Quality Applications
- 12:05 p.m. – 12:15 a.m.** **Message from Applied Sciences Director**
Speaker: Lawrence Friedl, Director, Applied Sciences Program
NASA Headquarters
- 12:15 a.m. – 12:45 a.m.** **Session 1: Welcome and Overview**
Speaker: John Haynes, Program Manager, Health and Air Quality
Applications, NASA Applied Sciences Program, NASA Headquarters
- 12:45 p.m. – 1:15 p.m.** **Partner Address**
Angela Werner and Nicholas Skaff
Environmental Health Tracking Section
Centers for Disease Control and Protection
- 1:15 p.m. – 1:30 p.m.** Aries Keck, Applied Sciences Communications
NASA Headquarters, Earth Science
- 1:30 p.m. – 2:00 p.m.** **Break**
- Session 2: GEO EO4HEALTH Projects**
Moderator: Helena Chapman, Associate Program Manager, NASA
Health and Air Quality Applications, NASA Headquarters/Booz Allen
Hamilton
- 2:00 p.m. – 2:10 p.m.** **A. Multi-Sensor Data for Myanmar Malaria Early Warning System**
Speaker: Tatiana Loboda, University of Maryland, College Park
- 2:10 p.m. – 2:20 p.m.** **B. A Geospatial Surveillance and Response System Resource for Vector
borne Disease in the Americas**
Speaker: John Malone, Louisiana State University

- 2:20 p.m. – 2:30 p.m.** **C. Predictive Assessment of Transmission Conditions of Cholera in the Environment and Human Population using Earth Observations**
Speaker: Antarpreet Jutla, University of Florida
- 2:30 p.m. – 2:40 p.m.** **C. Environmental Determinants of Enteric Infectious Disease**
Speaker: Benjamin Zaitchik, Johns Hopkins University
- 2:40 p.m. – 2:45 p.m.** **D. Augmentation for COVID-19**
Speaker: Benjamin Zaitchik, Johns Hopkins University
- 2:45 p.m. – 3:00 p.m.** **Break**
- Session 3: Air Quality Projects**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 3:00 p.m. – 3:10 p.m.** **A. Using Remote Sensing and Earth System Models to Improve Air Quality and Public Health in Megacities.**
Speaker: Susan Anenberg, George Washington University
- 3:10 p.m. – 3:15 p.m.** **B. Rapid Reponse: Using Remote Sensing and Earth System Models to Improve Air Quality and Public Health in Megacities**
Speaker: Dan Goldberg, George Washington University
- 3:15 p.m. – 3:25 p.m.** **C. Use of Remote Sensing Data to Improve Air Quality Decision Support Systems used to Protect Public Health**
Speaker: Arastoo Pour-Biazar, University of Alabama in Huntsville
- 3:25 p.m. – 3:35 p.m.** **D. Preparing Key State and Local Health and Air Quality Agencies for Upcoming Earth Observations**
Speaker: Yang Liu, Emory University
- 3:35 p.m. – 3:45 p.m.** **D. A Satellite Constrained Meteorological Modeling Platform for LADCO States SIP Development**
Speaker: Jason Otkin, University of Wisconsin, Madison
- 3:45 p.m. – 3:55 p.m.** **E. Using CrIS Ammonia Observations to Improve Decision Making on PM2.5 Control Policies**
Speaker: Matthew Alvarado, Atmospheric & Environmental Research
- 3:55 p.m.** **Adjourn for Day 1**

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Day 2: October 20, 2021

- 12:00 p.m. – 12:05 p.m.** **Instructions to Presenters and Reminders**
Helena Chapman and Laura Judd, Associate Program Managers, NASA Health and Air Quality Applications
- Session 4: Other Funded Projects**
Moderator: Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center
- 12:05 p.m. – 12:15 p.m.** **A. Mapping, Monitoring and Forecasting Climate-sensitive Diseases (CHIKRisk).**
Speaker: Assaf Anyamba, Universities Space Research Association, NASA Goddard Space Flight Center
- 12:15 p.m. – 12:25 p.m.** **B. Augmentation: An Early Warning System for Vector-borne Disease Risk in the Amazon**
Speaker: William Pan, Duke University
- 12:25 p.m. – 12:35 p.m.** **C. Rapid Response to Assess the Risk of Arbovirus Outbreaks Triggered by Climate Events**
Speaker: Michael Wimberly, University of Oklahoma
- Session 5: Health Projects**
Moderator: Helena Chapman, Associate Program Manager, NASA Health and Air Quality Applications, NASA Headquarters/Booz Allen Hamilton
- 12:35 p.m. – 12:45 p.m.** **A. The African Cholera Risk Early Warning System (ACREWS)**
Speaker: Benjamin Zaitchik, Johns Hopkins University
- 12:45 p.m. – 12:55 p.m.** **B. From Space to Front Porch: Connecting Earth Observations to Health Outcomes with an Environmental Exposure Modeling System**
Speaker: Julia Gohlke, Virginia Polytechnic Institute & State University
- 12:55 p.m. – 1:05 p.m.** **C. Source-differentiated Air Quality System to Safeguard the Respiratory Health of US Military Personnel Deployed in Southwest Asia, Djibouti, and Afghanistan**
Speaker: Meredith Franklin, University of Southern California

1:05 p.m. – 1:15 p.m.	Break
1:15 p.m. – 1:25 p.m.	D. Satellite-aided Regional Dust Forecasting for Valley Fever Surveillance, Highway Accident Prevention, and Air Quality Management in the Southwestern United States Speaker: Daniel Tong, George Mason University
1:25 p.m. – 1:35 p.m.	E. Improving Malaria Decision Support with Earth Observations Speaker: John Beck, University of Alabama in Huntsville
1:35 p.m. – 1:45 p.m.	E. Early Warning of Synoptic Air Quality Events to Improve Health and Well Being in the Greater Caribbean Region Speaker: Pablo Méndez-Lázaro, University of Puerto Rico-Medical Sciences Campus
1:45 p.m. – 1:50 p.m.	F. Rapid Response: Study of Imminent Interactions between SARS-CoV-2 (COVID-19), Air Quality due to Saharan Dust and Urban Aerosols, and Social-Environmental Factors in Puerto Rico in Summer 2020: Proxies of Health Risks in Small Island States in the Caribbean Region Speaker: Pablo Méndez-Lázaro, University of Puerto Rico-Medical Sciences Campus
1:50 p.m. – 2:10 p.m.	HAQAST Update Speakers: Tracey Holloway and Jenny Bratburd, University of Wisconsin-Madison
2:10 p.m. – 3:00 p.m.	Town Hall Discussion of Future Goals, Partnerships, and Opportunities Speaker: John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
3:00 p.m.	Adjourn
4:00 p.m.	Social Hour – Recognition of Career Accomplishments: Sue Estes