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 Response: 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
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