Agenda
Health and Air Quality Applications Program Review
September 18-19, 2018
Burlington, VT

Tuesday, September 18, 2018
Day 1

Room: Juniper Hall/Common

8:30 a.m. – 9:00 a.m.  Continental Breakfast/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: David Grass, Environmental Health Surveillance Chief, Vermont Department of Health

10:00 a.m. – 10:30 a.m.  Partner Address: Centers for Disease Control and Prevention
Speaker: Heather Strosnider, Environmental Health Tracking Branch

10:30 a.m. – 10:45 a.m.  BREAK

Session 2: Community Applications and the NASA Health and Air Quality Applied Sciences Team
Moderator: John Haynes

10:45 a.m. – 11:00 a.m.  Invited Speaker: Open Innovation: An Old New Tool for your Toolbox
Shobhana Gupta, NASA Community Applications Manager

11:00 a.m. – 11:30 a.m.  Health and Air Quality Applied Sciences Team (HAQAST) Report
Speaker: Daegan Miller, PhD, HAQAST Communications Coordinator

Session 3: Satellite Projects
Moderator: Sue Estes, Associate Program Manager, Health and Air Quality Applications

11:30 a.m. – 11:45 p.m.  A. Evaluate and Enhance Suomi NPP Products for Air Quality and Public Health Applications
Speaker: Jun Wang, University of Iowa
11:45 a.m. – 1:00 p.m.  

LUNCH – on your own

Session 4: Health Applications
Moderator: Sue Estes

1:00 p.m. – 1:15 p.m.  
A. Enhanced Data-driven Decision Support for Highly Invasive Vectors  
Speaker: Christopher Barker, University of California, Davis

1:15 p.m. – 1:30 p.m.  
B. An Early Warning System for Vector-Borne Diseases in the Amazon  
Speaker: William Pan, Duke University

1:30 p.m. – 1:45 p.m.  
C. An Early Warning System for Human West Nile Virus  
Speaker: Michael Wimberly, South Dakota State University

1:45 p.m. – 2:00 p.m.  
D. A Multi-Sensor Remote Sensing Approach to Predict Cholera  
Speaker: Antarpreet Jutla, West Virginia University

2:00 p.m. – 2:15 p.m.  
E. Using Remote Sensing and Environmental Data to Quantify Social Vulnerabilities to Heat Stress and Strengthen Environmental Public Health Tracking and Heat Mitigation Efforts  
Speaker: Tabassum Insaf, New York State Department of Health

2:15 p.m. – 2:30 p.m.  
F. Improved Forecasts of Respiratory Illness Hazard from Gulf of Mexico Red Tide  
Speaker: Richard Stumpf, NOAA

2:30 p.m. – 2:45 p.m.  
BREAK

Session 5: Socio-Economic Benefits and Impact to ROSES 13 Projects
Moderator: Sue Estes

2:45 p.m. – 3:00 p.m.  
A. Socio-Economic Evaluation of Multi-Sensor Remote Sensing Approach to Predict Cholera  
Speaker: Sonia Aziz, Moravian College, Pennsylvania

3:00 p.m. – 3:15 p.m.  
B. Socio-Economic Benefit of “Chemical Data Assimilation and Analog Based Uncertainty Quantification to Improve Decision-Making in Public Health and Air Quality”  
Speaker: Rajesh Kumar, National Center for Atmospheric Research

Session 6: Air Quality Applications
Moderator: Ali Omar, Associate Program Manager, Health and Air Quality Applications

3:15 p.m. – 3:30 p.m.  
A. Improving the Representation of the Physical Atmosphere in Air Quality Decision Support Systems Used for Emissions Control Strategy Development  
Speaker: Arastoo Pour Biazar, University of Alabama in Huntsville
3:30 p.m. – 3:45 p.m.  B. Chemical Data Assimilation and Analog-Based Uncertainty Quantification to Improve Decision-Making in Public Health and Air Quality  
Speaker: Rajesh Kumar, National Center for Atmospheric Research

3:45 p.m. – 4:00 p.m.  C. Downwind of the Flames: Assessing and Predicting Wildfire Smoke Related Morbidity Using Satellites, In-Situ Measurements and Models.  
Speaker: Jeffrey Pierce, Colorado State University

Section 7: GEOSTRESS  
Moderator: Ali Omar

4:00 p.m. – 4:30 p.m.  A Thermodynamic Paradigm For Using the Lastest Space-based Geophysical Measurements For Public Health Applications  
Speaker: Jeff Luvall, NASA MSFC

Section 8: NASA Applied Sciences Communications  
Moderator: John Haynes

4:30 p.m. – 5:00 p.m.  Invited Speaker:  
Pamela Bond, NASA Communications Manager, Agency CHIEF

5:00 p.m.  Adjourn

5:30 p.m.  Reception - Van Ness Room, Hotel Vermont

**********************************************************************************

Wednesday, September 19, 2018  
Day 2

Room: Juniper Hall/Common

8:30 a.m. – 9:00 a.m.  Continental Breakfast/Coffee

Section 9: One Health and VALUABLES Consortium  
Moderator: John Haynes

9:00 a.m. – 9:30 a.m.  Invited Speaker: One Health  
Helena Chapman, NASA AAAS Fellow

9:30 a.m. – 10:00 a.m.  Invited Speaker: VALUABLES Consortium  
Speaker: Bethany Mabee, Resources for the Future, Washington, DC

10:00 a.m. – 10:30 a.m.  BREAK
**Session 10: NASA Training and Capacity Building Opportunities**
Moderator: John Haynes

**10:30 a.m. – 11:00 a.m.**
NASA's Training and Capacity Building Opportunities ARSET, DEVELOP, and SERVIR  
Speaker: Zach Bengtsson, DEVELOP Boston Center Lead

**Session 11: GEO EO4HEALTH Projects**
Moderator: Helena Chapman

**11:00 a.m. – 11:15 a.m.**
A. A Geospatial Surveillance and Response System Resource for Vector Borne Disease in the Americas  
Speaker: John Malone, Louisiana State University

**11:15 a.m. – 11:30 a.m.**
B. Environmental Determinants of Enteric Infectious Disease  
Speaker: Ben Zaitchik, Johns Hopkins University

**11:30 a.m. – 12:00 p.m.**
C. Earth Observations for Cholera Prediction  
Speaker: Antarpreet Jutla, West Virginia University

**12:00 p.m. – 12:15 p.m.**
D. Multi-sensor Data for Myanmar Malaria Warning  
Speaker: Tatiana Loboda, University of Maryland

**12:15 p.m. – 1:15 p.m.**
Town Hall  
Discussion of Future Goals, Partnerships, and Opportunities  
Speaker: John Haynes

**1:15 p.m.**
Adjourn