



2017 AMS Annual Meeting

NASA Earth Science Technology Office (ESTO)

ESTO-Funded and ESTO-Affiliated Presentations, Posters, and Events

Monday, January 23

Presentation 3.2 (4:15 pm, Room 607)

Progress towards an OSSE Investigating a Constellation of 4-5 μm Infrared Sounders
- Will McCarty

Tuesday, January 24

Presentation 5.3 (2:00 pm, Conference Center: Skagit 4)

A Space-Based Wind Lidar for the International Space Station
- Carl Weimer (Sara Tucker)

Panel Discussion (4:30 PM-5:30 pm, Conference Center: Skagit 4)

The Future of Space-Based Lidar Observations: Addressing the Needs of Current and Future Global Atmospheric Studies

Moderator: Parminder Ghuman

Panelists: Robert Atlas, NOAA/AOML, Miami, FL; Carl Weimer, Ball Aerospace & Technologies Corp., Boulder, CO; Yong. X. Hu, NASA LaRC and Janet Intrieri, NOAA/ESRL, Physical Sciences Division, Boulder, CO

Town Hall: NASA Earth Science Division Town Hall

(5:30 - 6:30 pm, Room 609)

Wednesday, January 25

Joint Session 11 (8:30 -10:00 am, Room 3AB)

Advances in CubeSats and SmallSats to Improve Earth Science and Weather Forecasting

Cochairs: George Komar and Margaret Caulfield

J11.1 8:30 am

Technology Development in Support of a Future Earth Observation Nanosatellite-Infrared (EON-IR) Atmospheric Sounder

- Thomas Pagano

J11.2 8:45 am

New Small Satellite Capabilities for Microwave Atmospheric Remote Sensing

- William J. Blackwell

J11.3 9:00 am

MISTiC Winds, a Micro-Satellite Constellation Approach to High Resolution Observations of the Atmosphere using Infrared Sounding and 3D Winds Measurements

- K. R. Maschhoff

J11.4 9:15 am

Enabling Time-Resolved Observations of Precipitation Processes using 6U-Class Small Satellite Constellations: Temporal Experiment for Storms and Tropical Systems Technology Demonstration (TEMPEST-D)

- Steven C. Reising

14th Conference on Space Weather

Presentation 6.5 (9:30 am, Room 4C-2)

Mahali: Mobile Phones and Cloud Computing in Space Weather and Beyond

- Victor Pankratius

Wednesday cont'd

Joint Session 15 (10:30 am -12:00 pm, Room 3AB)

Advances in Satellite Observations for Earth Science & Observing Technologies Part I

Cochairs: Robert Bauer and Brian Mischel

J15.2 10:45 am

Development of a Compact and Cost Efficient Observational Strategy for the Long-term Measurements of Solar Spectral Irradiance

- Erik Richard

J15.3 11:00 am

New Technologies for Spaceborne Measurements of the Upper Troposphere and Lower Stratosphere: The Compact Adaptable Microwave Limb Sounder (CAMLs) Project

- Nathaniel J. Livesey

J15.4 11:15 am

Differential Absorption Radar for Water Vapor Sounding

- Matthew Lebsock

J15.6 11:45 am

GrOAWL: The ATHENA-OAWL Venture Technology Airborne Demonstrator Instrument

- Sarah Tucker

Eighth Symposium on Lidar Atmospheric Applications

Presentation 9.4 (11:45 am, Conference Center Skagit 4)

The 2014-2015 Polar Winds DAWN Airborne Campaigns; Instrument Performance, Data Collection and Advanced Data Processing Algorithm Development

- George Emmitt (Upendra Singh)

Town Hall: NASA's Earth Science Flight Program - Investments

in and Planning for the Next-Generation Earth Observatories

(12:15 - 1:15 pm, 3AB)

Research to Operations Session 4

Advances in Satellite Observations for Earth Science & Observing Technologies Part II

Cochairs: Stephen A. Mango and Robert Bauer

4.3 2:00 pm

Transitioning GNSS Interferometric Reflectometry into Operational Use: GNSS H2O

- Kristine M. Larson

4.4 2:15 pm

Empowering Data Management, Diagnostics, and Visualization of Cloud-Resolving Models (CRMs) via a Cloud Library based upon Spark and Hadoop

- Wei-Kuo Tao