2014 AGU Fall Meeting
NASA Earth Science Technology Office (ESTO)
ESTO-Funded and ESTO-Affiliated Presentations, Posters, and Events

Monday, December 15

Poster Session IN11A (8 - 12:20, Moscone South Poster Hall)
Advanced Concepts and Disruptive Technologies to Enhance Satellite Data Exploitation
Conveners: Karen Moe, Charles Norton, Jeff Walter

Poster IN11A-3587
NASA Earth Observing System Simulator Suite (NEOS3): A Forward Simulation Framework for Observing System Simulation Experiments
- Noppasin Niamsuwan (Simone Tanelli)

Poster IN11A-3589
The JPL Tropical Cyclone Information System – a new paradigm for integration of models and observations to enhance the use of remote sensing data for hurricane research and forecast improvements
- Svetla Hristova-Veleva

Poster IN11A-3590
Science and applications-driven OSSE platform for terrestrial hydrology using the NASA Land Information System (LIS)
- Ken Harrison (Sujay Kumar)

Poster IN11A-3594
Improving NASA GPM Data Exploitation through NASA Cloud-Resolving Model Empowered with Parallel AsyncIO Management
- Wei-Kuo Tao

Poster IN11A-3595
An Overview of Plume Tracker: Mapping Volcanic Emissions with Interactive Radiative Transfer Modeling
- Vincent Realmuto (Lex Berk)

Poster IN11A-3597
Using Enabling Technologies to Facilitate the Comparison of Satellite Observations with the Model Forecasts for Hurricane Study
- Peggy Li (Svetla Hristova-Veleva)

Poster IN11A-3598
Handling the Diversity in the Coming Flood of InSAR Data with the InSAR Scientific Computing Environment
- Eric Gurrola (Paul Rosen)

Poster IN11A-3599
The SoilSCAPE Network Multiscale In-situ Soil Moisture Measurements: Innovations in Network Design and Approaches to Upscaling in Support of SMAP
- Mahta Moghaddam

Poster NH11B-3686 (8 - 12:20, MS Poster Hall)
UAVSAR for the Management of Natural Disasters
- Yunling Lou

Poster NH11B-3692 (8 - 12:20, MS Poster Hall)
Volunteered Cloud Computing for Disaster Management
- John Evans

Poster NH11B-3706 (8 - 12:20, MS Poster Hall)
Integrating emerging earth science technologies into disaster risk management: an enterprise architecture approach
- John Evans

Poster NH11B-3708 (8 - 12:20, MS Poster Hall)
An Information Architect's View of Earth Observations for Disaster Risk Management
- Karen Moe

Poster H13F-1181 (1:40 - 6 pm, MS Poster Hall)
Multi-Site Model Benchmarking: Do Land Surface Models Leak Information?
- Grey Nearing (Sujay Kumar)

Session IN13D (1:40 - 3:40 pm, Moscone West 2020)
Advanced Concepts and Disruptive Technologies to Enhance Satellite Data Exploitation II
Conveners: Karen Moe, Charles Norton, Jeff Walter

IN13D-01 (1:40 - 1:55 pm, MW 2020)
NASA's Advanced Information Systems Technology (AIST) Program: Advanced Concepts and Disruptive Technologies
- Michael Little

IN13D-02 (1:55 - 2:10 pm, MW 2020)
Scalable and Effective Earth Science Collaboration Tool
- Manil Maskey

IN13D-03 (2:10 - 2:25 pm, MW 2020)
Spatial Inference for Distributed Remote Sensing Data
- Amy Braverman

IN13D-06 (2:55 - 3:10 pm, MW 2020)
CYGNSS: A Constellation of Bi-static Ocean Scatterometer Microsatellites to Probe the Inner Core of Hurricanes
- Chris Ruf

IN13D-07 (3:10 - 3:25 pm, MW 2020)
High-Speed On-Board Data Processing for Science
- Jeffrey Beyon

Presentation A13N-03 (2:10 - 2:25 pm, MW 3004)
Climate Change Accuracy: Requirements and Economic Value
Bruce Wielicki (Martin Mlynczak)

Presentation A13N-06 (2:55 - 3:10 pm, MW 3004)
An Analysis of Far-Infrared Radiances Obtained By the First Instrument at Table Mountain
David Kratz (Martin Mlynczak)

Presentation C13D-07 (3:10 – 3:25 pm, MW 3007)
Ice Sheet Thermometry Using Wideband Radiometry
Alexandra Bringer (Ken Jezek)

NASA Exhibit Hyperwall Talk (6:20 pm)
Remote Sensing with Fluid Lensing
Ved Chirayath

Tuesday, December 16

NASA Exhibit Talk (11:50 - 12:10)
SciSpark: Highly Interactive and Scalable Regional Climate Model Evaluation
- Chris Mattmann

Poster A21C-3029 (8 - 12:20, MS Poster Hall)
Downwelling Far-Infrared Emission Spectra Measured By First at Cerro Toco, Chile and Table Mountain, California
- Jeffrey Mast (Martin Mlynczak)

Poster A21D-3068 (8 - 12:20, MS Poster Hall)
Spectrometers for Sky-Scanning, Sun-Tracking Atmospheric Research (4STAR) Upgrade to Full Sun-Sky-Cloud-Trace Gas Spectrometry Capability for Airborne Science
- Steven Dunagan (Philip Russell)

Poster IN21B-3703 (8 – 12, MS Poster Hall)
Using Enabling Technologies to Advance Data Intensive Analysis Tools in the JPL Tropical Cyclone Information System
- Brian Knosp (Svetla Hristova-Veleva)

Presentation A22F-02 (10:32-10:44 am, MW 3012)
Icecube: Spaceflight Validation of an 874-GHz Submillimeter Wave Radiometer for Ice Cloud Remote Sensing
- Dong Wu

Presentation A22F-03 (10:44-10:56 am, MW 3012)
Temporal Experiment for Storms and Tropical Systems (TEMPEST) CubeSat Constellation
- Steven Reising

Presentation A22F-04 (10:56-11:08 am, MW 3012)
The RAVAN CubeSat mission: Progress toward a new measurement of Earth outgoing radiation
- William H. Swartz

Presentation A22F-09 (11:56 - 12:08, MW 3012)
Microwave Radiometer Technology Acceleration Mission (MiRaTA): Advancing Weather Remote Sensing with Nanosatellites
- Kerri Cahoy

Presentation G23C-07 (3:10 - 3:25, MW 3024)
Earth Time Variable Gravity from a Spaceborne Cold Atom Gravity Gradiometer
- Babak Saif

NASA Exhibit Hyperwall Talk (4:30 pm)
Remote Sensing with Fluid Lensing
- Ved Chirayath

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Wednesday, December 17

NASA Exhibit Talk (11:25 - 11:45)
Microwave Radiometer Technology Acceleration Mission
- Kerri Cahoy

NASA Exhibit Talk (12:15 - 12:35)
Detecting Methane with Lasers
- Haris Riris

NASA Exhibit Talk (3:10 - 3:30)
The JPL Tropical Cyclone Information System - an innovative approach to hurricane data and modeling
- Svetla Hristova-Veleva

Thursday, December 18

Poster IN43D-3727 (1:40 - 6 pm, MS Poster Hall)
Integrating Actionable User-defined Faceted Rules into the Hybrid Science Data System for Advanced Rapid Imaging & Analysis
- Hook Hua

Poster A43C-3280 *(1:40 - 6 pm,* MS Poster Hall)
Atmospheric Airborne Pressure Measurements using the Oxygen A-Band for the ASCENDS Mission
- Haris Riris

Poster OS41A-1178 (8 - 12:20, MS Poster Hall)
Fluid Lensing, Applications to High-Resolution 3D Subaqueous Imaging & Automated Remote Biosphere Assessment from Airborne and Space-borne Platforms
- Ved Chirayath

Poster SA43A-4081 (1:40 - 6 pm, MS Poster Hall)
MASTER: Middle Atmosphere Sounder and Thermal Emission Radiometer
- Marty Mlynczak

Friday, December 19

Poster A51A-3010 (8 - 12:20, MS Poster Hall)
Trace Gas Retrievals from the GeoTASO Aircraft Instrument During the DISCOVER-AQ Campaigns
- James Leitch

Poster A51B-3034 (8 - 12:20, MS Poster Hall)
Algorithm for simultaneous inversion of aerosol properties and surface reflectance from airborne GeoTASO hyperspectral data
- James Leitch

Presentation G53A-01 (1:40 – 1:55 pm, MW 3024)
Single-pass Airborne InSAR for Wide-swath, High-Resolution Cryospheric Surface Topography Mapping
- Delwyn Moller

Presentation G53A- 06 (2:55 PM - 03:10 PM, MW 3024)
EcoSAR: NASA's P-band fully polarimetric single pass interferometric airborne radar
- Temilola Fatoyinbo

For more information about ESTO and its technology investments, visit http://esto.nasa.gov