

2011 AGU Fall Meeting

Schedule of ESTO-Funded and ESTO-Affiliated Presentations



Monday, December 5

Poster IN11C-1312 (8:00 am, Halls A-C)
Applications of TOPS Anomaly Detection Framework to Amazon Drought Analysis
- Petr Votava

Presentation G11B-03 (8:30 am, Room 3024, MW)
Millimeter-Wave Airborne Interferometry for High-accuracy Topography Mapping
- Delwyn Moller

Town Hall TH15G (6:15 - 7:15 pm, Room 2008, MW)
National Data Infrastructure for Earth System Science
- Karen Moe (convener)

Tuesday, December 6

Poster A21D-0098 (8:00 am, Halls A-C)
Development of a 2-micron Pulsed Differential Absorption Lidar for Atmospheric CO₂ Concentration Measurement by Direct Detection Technique
- Jirong Yu

Poster A21D-0106 (8:00 am, Halls A-C)
Atmospheric Airborne Pressure Measurements using the Oxygen A Band for the ASCENDS Mission
- Haris Riris

Presentation GC21C-03 (8:30 am, Room 3005, MW)
An Improved Total Solar Irradiance Climate Data Record
- Greg Kopp

Presentation G22A-01 (10:20 am, Room 3024, MW)
UAVSAR Indication of Right-Lateral Faults
- Andrea Donnellan

NASA Exhibit Presentation (12:00 pm, NASA Exhibit)
SoilSCAPE Wireless Sensor Web: An Embedded-System Paradigm for Large-Scale In-Situ Validation of NASA Earth Science Missions
- Mahta Moghaddam

Poster H23G-1368 (1:40 pm, Halls A-C)
Development of Low-Mass, Low-Power High-Frequency Microwave Radiometers to Improve Coastal and Enable Over-Land Wet-Tropospheric Correction for SWOT
- Steven C. Reising

Poster GC23A-0910 (1:40 pm, Halls A-C)
TSI Instrument Validations on the TSI Radiometer Facility
- Greg Kopp

Poster A23D-0212 (1:40 pm, Halls A-C)
Observing tropical cyclones from the Global Hawk
- Bjorn Lambrigtsen

Wednesday, December 7

Poster A31C-0090 (8:00 am, Halls A-C)
Instrument Simulator Suite for Atmospheric Remote Sensing (ISSARS) as a benchmarking tool for model development
- Noppasin Niamsuwan (Simone Tanelli)

NASA Exhibit Presentation (10:00 am, NASA Exhibit)
ISS SpaceCube Experiment 2.0
- Tom Flatley

NASA Exhibit Presentation (3:00 pm, NASA Exhibit)
Exploiting satellite remote sensing data for estimation of land surface hydrologic conditions and associated 'downstream' impacts
- Christa Peters-Lidard

Presentation G33C-07 (3:10 pm, Room 3024, MW)
Real-time Modeling of GPS and Accelerometer Data for Earthquake Early Warning and Rapid Hazard Assessment
- Brendan W. Crowell (Yehuda Bock)

Thursday, December 8

NASA Exhibit Presentation (10:00 am, NASA Exhibit)
Coupling Advanced Modeling and Visualization to Improve High-Impact, Tropical Weather Prediction
- Bo-Wen Shen

Session IN42A (10:20 am, Room 102, MS)
Information Systems Technology to Advance Remote Sensing and Data Productivity in the Next Decade I
- Charles Norton / Karen Moe (Conveners)

Presentation IN42A-01 (10:20 am, Room 102, MS)
Next-Generation Geodetic Station for Natural Hazards Research and Applications
- Yehuda Bock

Presentation IN42A-02 (10:35 am, Room 102, MS)
InSAR Scientific Computing Environment – The Home Stretch
- Paul A. Rosen

Presentation IN42A-03 (10:50 am, Room 102, MS)
Initial Fault Tolerance and Autonomy Results for Autonomous On-board Processing of Hyperspectral Imaging
- Matthew French

Thursday, December 8, Continued

Presentation IN42A-04 (11:05 am, Room 102, MS)

A Collaborative, Multidisciplinary Environment for Coastal Science

- Sara Graves

Presentation IN42A-08 (12:05 pm, Room 102, MS)

Automated Tracking of Tornado-Producing Mesoscale Convective Systems in the United States

- Kwo-Sen Kuo; Yang Hong; Thomas L. Clune

Poster IN43B-1438 (1:40 pm, Halls A-C)

Advanced Hybrid On-Board Science Data Processor - SpaceCube 2.0

- Thomas Flatley

Poster IN43B-1439 (1:40 pm, Halls A-C)

MSPI Onboard Processing: In-flight Algorithm Validation and Data Reduction

- Paula Pingree

Poster IN43B-1436 (1:40 pm, Halls A-C)

QuakeSim: A Web Service Environment for Productive Investigations with Earth Surface Sensor Data

- Jay Parker (Andrea Donnellan)

Poster IN43B-1433 (1:40 pm, Halls A-C)

Spatio-temporal data fusion for remote sensing applications

- Hai M Nguyen (Amy J Braverman)

Presentation A43F-10 (3:28 pm, Room 3002, MW)

NASA Integrated Instrument Simulator Suite for Atmospheric Remote Sensing from Spaceborne Platform (IS-SARS) and its Role for the ACE and GPM Missions

- Simone Tanelli

Friday, December 9

Poster IN51C-1596 (8:00 am, Halls A-C)

CEOS WGISS Reference Model for Use of Remote Sensing Products for Disaster Management and Risk Assessment

- Karen Moe

Presentation S51F-06 (9:15 am, Room 2022, MW)

Real-time Moment Tensor Inversion and Centroid Location for Large Events from Local and Regional Displacement Records

- Diego Melgar-Moctezuma (Yehuda Bock)

Poster IN53A-1612 (1:40 pm, Halls A-C)

The QuakeTables UAVSAR Repository – Delivering RPI Products to Geo-Science Applications

- Rami Al-Ghanmi (Andrea Donnellan)

About ESTO

The Earth Science Technology Office (ESTO) is the lead technology office within the Earth Science Division of the NASA Science Mission Directorate. ESTO is responsible for funding and developing technologies that are needed for future Earth science measurements. With a portfolio of over 660 past and current investments and a rate of technology infusion approaching 36%, ESTO continues to build NASA's reputation for leading-edge technology development. ESTO's approach to technology development is defined by three primary factors: a commitment to competitive, peer-reviewed solicitations; a focus on active management of technology investments; and consistent interaction with a diverse research community to formulate science and technology requirements as well as infuse maturing technologies into missions and measurements.

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

