Monday, September 28
Paper MO2.R9.7 (15:30-15:40 UTC)
Diagnostic Analysis of a Data Assimilation Framework for Improving Snow Mass Estimation in Complex Terrain - Jawairia Ahmad (Barton Forman)

Paper M02.R9.9 (15:50-16:00 UTC)
Observing System Simulation Experiment for Remote Sensing of Snow at P-Band - Rashmi Shah, Simon Yueh

Paper MO2.R13.2 (14:40-16:30 UTC)
Improvement of CYGNSS Level 1 Calibration Using Modeling and Measurements of Ocean Surface Mean Square Slope - Tianlin Wang

Tuesday, September 29
Paper TU2.R13.3 (15:00-16:30 UTC)
Analyses Supporting SNOOP!: A P-Band Reflectometry Demonstration - James Garrison

Next Generation Gnss-R Instrument - Christopher Ruf

Paper TU2.R13.5 (15:20-16:30 UTC)
Digital Back End for P-Band Reflections Concepts - Rashmi Shah

Wednesday, September 30
S-MODE: The Sub-Mesoscale Ocean Dynamics Experiment - Dragana Perkovic-Martin, Pantazis Mouroulis

Thursday, October 1
Session TH2.R2: Analytic Center Frameworks for Monitoring and Assessing Disasters Diverse Spatiotemporal Scales - Ian Brosnan and Ben Smith, Co-Chairs
- Paper TH2.R2.1 (14:30-14:50 UTC)
The Quakes Analytic Center Framework for Addressing Diverse Spatiotemporal Scales of Tectonic and Earthquake Processes - Andrea Donnellan
- Paper TH2.R2.5 (15:10-15:20 UTC)
Estimation of Fuel Moisture Content by Integrating Surface and Satellite Observations Using Machine Learning - Branko Kosovic
- Paper TH2.R2.6 (15:20-15:30 UTC)
Supporting Aquaculture in the Chesapeake Bay using Artificial Intelligence to Detect Poor Water Quality with Remote Sensing - Stephanie Schollaert Uz
- Paper TH2.R2.7 (15:30-15:40 UTC)
NASA NeMO-Net – A Neural Multimodal Observation & Training Network for Marine Ecosystem Mapping at Diverse Spatiotemporal Scales - Ved Chirayath
- Paper TH2.R2.8 (15:40-15:50 UTC)
Community Reorganization Response to Climate Change: Species Interactions, State-Space Modeling and Food Webs - Jennifer J. Swenson

Paper TH2.R4.2 (14:50-16:30 UTC)
Lessons Learned from AIRS for Future Grating IR Sounders - Thomas Pagano

Paper TH2.R4.3 (15:00-16:30 UTC)
The Nasa Tropics Mission as a Pathfinder for Future Operational Earth Observing Systems - William Blackwell

Paper TH2.R4.5 (15:20-16:30 UTC)
Next Generation Microwave Spectrometers for Atmospheric Sounding: Cubesats and Beyond - Shannon Brown

Paper TH2.R4.7 (15:40 15:40-16:30 UTC)
Real-Time Detection and Filtering of Radio Frequency Interference On-Board a Spaceborne Microwave Radiometer: The CubeRRT Mission - Joel Johnson

Session TH2.R7: Integrating Physical Models into Machine Learning (ML) Models - James Murphy and Jacqueline Le Moigne, Co-Chairs
A Deep Machine Learning Approach for LIDAR Based Boundary Layer Height Detection - Jennifer Sleeman
- Paper TH2.R7.9 (16:00-16:10 UTC)
Quantum Assisted Image Registration - Craig Pelissier (Jacqueline Le Moigne)

Session TH2.R17: Global Sensing through New Observing Strategies for Local Solutions - Marge Cole and Paul Grogan, Co-Chairs
- Paper TH2.R17.1 (14:30-14:30 UTC)
Leveraging Space and Ground Assets in a SensorWeb for Scientific Monitoring: Early Results and Opportunities for the Future - Steve Chien
Thursday, October 1, continued

- **Paper TH2.R17.2** (14:50-15:00 UTC)  
  *Coordinating Observation at Global and Local Scales: Service-Oriented Platform to Evaluate Mission Architectures* - Paul Grogan

- **Paper TH2.R17.3** (15:00-15:10 UTC)  
  *D-Shield: Distributed Spacecraft with Heuristic Intelligence to Enable Logistical Decisions* - Sreeja Nag

- **Paper TH2.R17.4** (15:10-15:20 UTC)  
  *Spector: Sensing Policy Controller and Optimizer* - Mahta Moghaddam

- **Paper TH2.R17.5** (15:20-15:30 UTC)  
  *Emulating and Verifying Sensing, Computation, and Communication in Distributed Remote Sensing Systems* - Matthew French

- **Paper TH2.R17.6** (15:30-15:40)  
  *An Innovative SpaceCube Application for Atmospheric Science* - James Carr

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Friday, October 2

- **Paper FR1.R1.7** (13:00-14:00 UTC)  
  *Soilscape Wireless in situ Networks in Support of CYGNSS Land Applications* - Ruzbeh Akbar (Mahta Moghaddam)

- **Paper FR1.R2.8** (13:10-13:20 Utc)  
  *The Smart Ice Cloud Sensing (SMICES) SmallSat Concept* - William Deal

- **Paper FR1.R2.11** (13:40-13:50 Utc)  
  *The Smart Ice Cloud Sensing (SMICES) SmallSat Instrument Artificial Intelligence Strategies* - William Deal