

NOAA/NESDIS Cooperative Research Program (CoRP) Annual Science Symposium

**Turning NOAA Science into Information for Societal Benefit**

6 – 7 June 2018

Hosted at the Pyle Center by

NOAA's Cooperative Institute for Meteorological Satellite Studies (CIMSS)

**DRAFT AGENDA**

**Wednesday, 6 June**

8:00-9:00 Registration (outside room 235)

9:00 Welcome and Logistics (Steve Ackerman)

9:10 Sat Obs – from UFOs to FTS (Paul Menzel)

**CoRP Presentations**

9:30 Decreasing Caribbean Precipitation Trends During A Warming Sea Surface Temperature Period, 1982-2015 (Equisha Glenn, CREST)

9:50 Refining Long-Term Analysis of AVHRR Great Lakes Surface Temperatures (Charles White, CIMSS)

10:10 Subseasonal-to-seasonal (S2S) Predictability of Storm Tracks and Related Winter Weather in the NCEP Climate Forecast System (Katherine Lukens, CICS-MD)

10:30 *Break*

**CoRP Presentations**

10:50 Detecting convection using GOES-R ABI data (Yoonjin Lee, CIRA)

11:10 A Comparison of Thermodynamic Retrievals from Space-based and Ground-based Platforms Applied to a Convective Initiation Case Study (David Loveless, CIMSS)

11:30 Climatology and structure of cut-off lows in the North Atlantic basin (Louis Rivoire, CIRA)

11:50 A Dynamic Risk Assessment for Water (Arun Ravindranath, CREST)

12:10 *Lunch on own*

### **CoRP Presentations**

1:30 Lake Michigan Ozone Study – LMOS (Brad Pierce, ASPB-CIMSS)

1:50 Puerto Rico after Hurricane Maria (Shane Hubbard, CIMSS)

2:10 Sources and Variability of Satellite Passive Microwave Precipitation Biases (Veljko Petkovic, CIRA)

2:30 Information content of visible and mid-infrared radiances for retrieving tropical ice cloud properties (Kai-Wei Chang, CIMSS)

2:50 Linking SNPP and NOAA20 CrIS toward Climate Data Records (Likun Wang, CICS-MD)

3:10 Deciphering the impacts of model moisture errors on hurricane forecasts with satellites (Chris Slocum, CIRA)

3:30 *Break*

3:50 **Relevant Career Paths** (Mooney Panel with Kaba Bah, Marcia Cronic, Alexa Ross, and others)

5:00-7:00 *Poster Session and Reception* (cash bar in room 209)

Impact of Bias-Correction Methods on Effectiveness of Assimilating SMAP Soil Moisture Data into NCEP Global Forecast System using the Ensemble Kalman Filter (Jifu Yin, CICS-MD)

Vector-based Fast and Accurate Collocation Software for GEO and LEO instruments (Likun Wang, CICS-MD)

Urban WRF - Solar Validation and Potential for Power Forecast in New York City (Harald Gamarro, CREST)

Global analysis of the changes in the crop yields and how they relate to different large-scale and regional climate variables, climate change variables and technology (Ehsan Najafi, CREST)

Derivation of Drought Index for the Continental United States using Satellite Based Soil Moisture and Vegetation Indices (Cassandra Calderella, CREST)

Indirect Validation of OMPS Limb Ozone Retrievals (Margaret Bruckner, CIMSS)

Lake Breeze Analysis from the Lake Michigan Ozone Study (Jack Bruno, CIMSS/Ohio University)

Examining PM2.5 Data Apples-to-Apples: Comparative Analysis of CDC WONDER, Environmental Tracking Network and Dalhousie University's Maps (Seohyun Choi, CIMSS/SAGE)

The Streamwise Vorticity Current in a High Resolution Simulation of a Tornadic Supercell Thunderstorm (Austin Dixon, CIMSS)

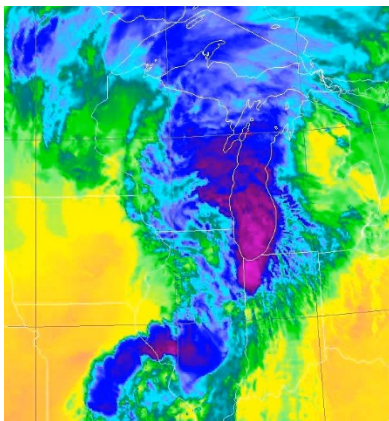
Using Graphical Processing Units for Massively Parallel Computations of Fluid Parcel Trajectories (Kelton Halbert, CIMSS)

Effects of Surface Cover Variability on the Arctic Energy Balance using the Arctic Observations and Reanalysis Integrated System (Anne Sledd, CIMSS)

**Thursday, 7 June**

**CoRP Presentations**

- 9:00 Estimation of Sea Ice Albedo from SNPP/NOAA-20 VIIRS Data (Jingjing Peng, CICS-MD)
- 9:20 Comparison of OMI NO<sub>2</sub> Data Products (Mary Spraggs, SAGE and CIMSS)
- 9:40 GLM Detection Efficiency and Flash Characteristics (Max Marchand, CIRA)
- 10:00 Validate and Improve ATMS Geolocation Accuracy by Using Lunar Observations (Jun Zhou, CICS-MD)
- 10:20 Mitigation of Septic Effluent Nitrogen using Hybrid Green Infrastructure for the Management of Harmful Algal Bloom Production in Long Island Coastal Waters (Nia Rene, CREST)
- 10:40 Break
- 11:00 **Communicating Science** (Wagner Panel)
- 12:00 *Walk to CIMSS/SSEC for lunch on the roof (Pizza provided)*



1:30-4:30 **Understanding and Using Satellite Data**  
(Lindstrom training at CIMSS/SSEC): Using a variety of computer software, students will learn capabilities from geostationary satellites, including GOES-16, and from the latest polar orbiting satellites such as NOAA-20 and GCOM. We will investigate visible, infrared, and microwave channels that are available.

5:00 *Brats and Jazz at the Memorial*

Union (on your own) <http://www.jazzinmadison.org/jazz-on-the-terrace-memorial-union-terrace-2pm-to-10pm/>