

Weekly Report – August 19, 2022
Satellite Climate Studies Branch (SCSB)/CISESS
NOAA/NESDIS/STAR
Acting Branch Chief: Kevin Garrett

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HIGHLIGHTS FOR NESDIS LEADERSHIP

People

CISESS Deputy Director E. Hugo Berbery Wins a Fulbright Specialist Award: The U.S. State Department announced on August 9 that UMD Research Professor Ernesto Hugo Berbery has received a Fulbright Specialist Program award. Dr. Berbery will complete a project at Universidad del Litoral in Argentina that aims to exchange knowledge and establish a partnership between the United States and Argentina through environmental science education and training activities. Recipients of Fulbright Specialist Program awards are selected on the basis of academic and professional achievement, demonstrated leadership in their field and their potential to foster long-term cooperation between institutions in the U.S. and abroad. Berbery will be in Argentina to work on this award from September 2 to October 10. *(E. Hugo Berbery, CISESS, berbery@noaa.gov; Funding: Task I)*



TRAVEL AND MEETING REPORTS

SCSB & CISESS at the NOAA Satellite/AMS Collective Madison Meeting: The NOAA Satellite Meeting was part of the AMS Collective Madison Meeting held in Wisconsin on August 8-12.

Collective Madison Meeting

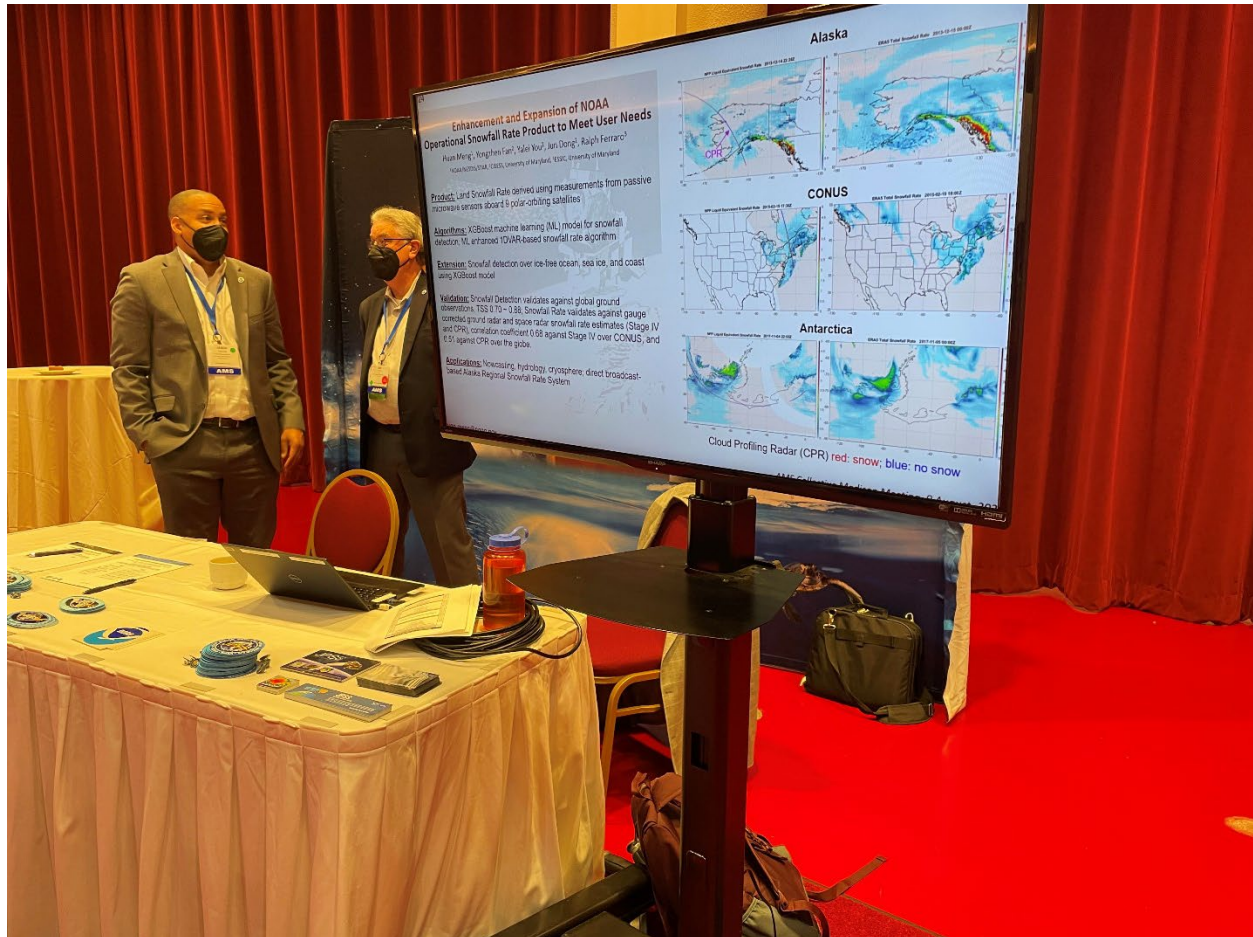
08-12 August 2022, Madison, WI



SCSB gave two talks, one live and one virtual, at the meeting. **Thomas Smith** spoke live on Improvements in Operational Daily Long-Record Satellite-Based Global SST Analysis. The presentation outlined major improvements in the daily OISST analysis over the last several

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years and discussed improvements being developed. **Huan Meng** presented virtually on the Enhancement and Expansion of NOAA Operational Snowfall Rate Product to Meet User Needs. CISESS coauthors on this talk were **Yongzhen Fan, Yalei You, Jun Dong** and **Ralph Ferraro**. The image below is a showing of the Snowfall Rate product slides in the NOAA booth at the Madison meeting exhibition hall.



There were several CISESS talks, including:

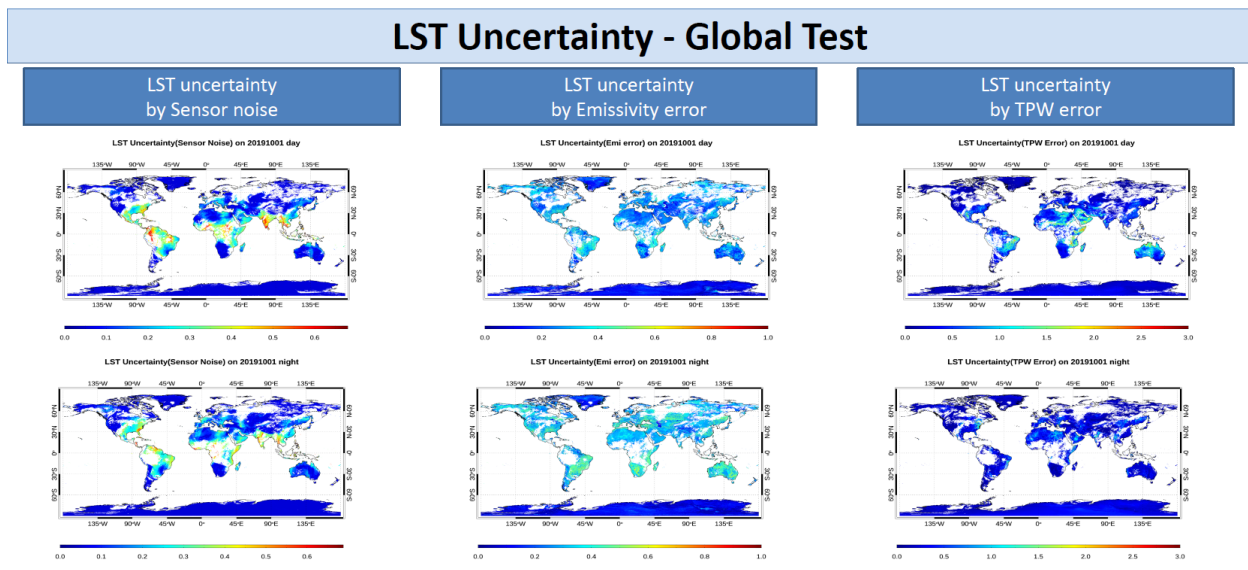
- **Javier Villegas Bravo** on Burn Scar Extent and Severity Composite from NOAA-20 VIIRS and Sentinel-1 SAR;
- **Yong-Keun Lee** coauthored a talk given by Kevin Fuell (UAH) on Micro-Lesson Training Series for Research and Operations Audiences on JPSS Snow, Ice, and Soil Moisture Products; and
- **Fangjun Li** (SDSU) on Hourly Biomass Burning Emission Products from Blended Geostationary and Polar-orbiting Satellites for Air Quality Forecasting Applications – Product Validation.

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CISESS Posters at the Collective Meeting included:

- **Korak Saha** on Trend Analysis of Long-Term Global NOAA Blended Winds Using Seasonal-Trend Decomposition Based on LOESS;
- **Yuling Liu** on Quantifying the Uncertainty of VIIRS Land Surface Temperature Product with **Heshun Wang** as a coauthor;
- **Peter Romanov** (CUNY) on New Global Multi-Decadal Snow Dataset from Blended In Situ and Satellite Observations with **Cezar Kongoli** as a co-author;
- **Peter Romanov** (CUNY) on a New Set of Enhanced GOES-R ABI Snow Cover Products;
- **Xiaoyang Zhang** (SDSU) on Hourly Biomass Burning Emission Products from Blended Geostationary and Polar-orbiting Satellites for Air Quality Forecasting Applications – Algorithm Development; and
- **Steve Goodman** (Consortium) on Combined Space-based Observations of Lightning from the ISS-LIS and GLM in AWIPS.

In addition, **Javier Villegas Bravo** chaired the session on the Status of Satellite Products and Data Access, Part III, Science.



*Figure: A selection from **Yuling Liu & Heshun Wang** on Quantifying the Uncertainty of VIIRS Land Surface Temperature (LST) Product. TPW – total precipitable water*

(Debra Baker, CISESS, drb@umd.edu; Funding: JSTAR, JPSS PGRR, GOES-R PGRR, GOES-R AWG, NWS, Legacy Migration, NCEI, METOP-SG)