

SSEC2022 Year 1 Selections

Project Title	PI	Project Team
SSEC Equity Tech Camp	Margaret Mooney	Sam Batzli, Scott Lindstrom, Clayton Suplinski, Dave Hoese, Leigh Orf, Kaba Bah
Promote Flight of the GEO Hyperspectral Imaging IR Sounder (HIIS)	Hank Revercomb	Bill Smith, Paul Menzel, Bob Knuteson, Fred Best, Joe Taylor, Mark Mulligan
Assimilating ABI Hydrometeors and its Impacts on Moisture Initialization for Hurricane Prediction	Pei Wang	Jun Li, Agnes Lim, Jinlong Li
Assimilating sea ice products from satellites into Energy Exascale Earth System Model	Xuanji Wang	Shu Wu (CCR)
Data Center Cooling Loop Upgrade	Don Thielman	Rob Lemke, Chris Lund (DoIT)
Schwerdtfeger Library: A Collaborative Environment for Teaching, Learning, and Research.	Jean Phillips	Tristan L'Ecuyer, Katherine Johnson
Improving the low level of operational NUCAPS soundings with multi-source data using machine learning technique	Jinlong Li	Kevin Baggett, Mitch Goldberg (NOAA), Jun Li, Elisabeth Weisz
S-HIS Upgrade Path Study	Joe Taylor	Hank Revercomb, Fred Best, Mark Mulligan
Precipitation Imaging Package (PIP) Instrument Development: Expanding SSEC Snowfall Measurement Capabilities to Support Satellite Ground Validation and Algorithm Research	Claire Pettersen	Norm Wood, Mark Kulie (NOAA) Tristan L'Ecuyer, Walter Petersen (NASA), Larry Bliven (NASA), Dave Wolff (NASA)
Modernizing McIDAS ADDE Server Development	Becky Schaffer	Dave Santek, Dave Hoese
Construction of a Rubidium based HSRL prototype	Ed Eloranta	Istvan Bocsí, Joe Garcia, Ilya Razenkov, D. Smith (contractor)
SSEC 2022 Infrastructure Proposal: A Tape Library for Research Data Backup and Archive	Scott Nolin	John Lalande
Upgrade of SSEC's High Accuracy Temperature Calibration Facility	Jon Gero,	Fred Best, Doug Adler, Joe Taylor
CSPP Geo Enhancements and Capabilities Demonstration	Graeme Martin	Ray Garcia, Jerry Robaidek, Jessica Braun
Developing a critical mass of AI programming resources at SSEC	Tony Wimmers	Tom Rink, Sarah Griffin, John Cintineo, Tim Olander, Jerry Robaidek, Scot Nolin, Mike Pavolonis (NOAA), Chris Velden, Grant Petty (AOS), Matt Sinclair (Comp Sci)
Ensemble Damage and Loss Modeling of Landfalling Hurricanes in the US	Shane Hubbard	Derrick Herndon, Tommy Jasmin, Joleen Feltz
Deriving 3D Winds using Retrieved Moisture Fields from Microwave Sounders	Dave Santek	Brett Hoover, Mark Kulie (NOAA)
Antarctic Meteorological Research Center Internship Program	Lee Welhouse	Dave Mikolajczyk, Tristan L'Ecuyer (AOS), Mark Kulie (NOAA), Matthew Lazzara (SSEC/MATC)
A mobile application to improve access of satellite fire detections	Chris Schmidt	Dave Parker, Jordan Gerth, Sam Batzli, Ray Garcia, Jerry Robaidek
Satellite Data Services (SDS) Satellite Geostationary Data Archive Expansion - 2019	Jerry Robaidek	Erik Olson, Clayton Suplinski, Dan Forrest
SAT-AnEn: A Satellite-Based Analog Ensemble for Tropical Cyclone Structure Estimation and Nowcasting	Will Lewis	Tim Olander, Chris Rozoff (NCAR) Stefano Allesandrini (NCAR)
Improving Multilayer Cloud Detection, Cloud Heights and Cloud Cover Layer with Machine Learning Techniques	Yue Li	Andy Heidinger (NOAA), Steve Wanzong, Tony Wimmers