SSEC2022 2020 Selections

20 out of 28 Full Proposals selected (71%)

Total 2020 Funding

$1,549,569 minus some travel requests (Target was $1.5M)
(Total travel requests=$37,304)

- ✓ **Eva Borbas,** Extending CAMEL Emissivity database to far IR with ground- based Absolute Radiance Interferometer (ARI) measurements **Anthony Wimmers,** Expanding GPU-enabled computing at SSEC
- ✓ **Denny Hackel,** Summer internships and academic year student programmer pool
- ✓ **Willem J. Marais,** Developing Convolutional Neural Network Methodologies for Denoising VIIRS Day-Night-Band and Cloud Layer Detection of GEO Imager Observations
- ✓ **Jean Phillips,** Digitizing the Applications Technology Satellite (ATS) image collection
- ✓ **Jerrold Robaidek,** Satellite Data Services (SDS) Satellite Data Archive Expansion (Part II)
- ✓ **Liam Gumley,** Low Latency Reception, Processing, and Applications for CrIS
- ✓ **Kathleen Strabala,** International MODIS/AIRS Processing Package
- ✓ **Agnes Lim,** Implementation of the convective scale Unified Model over CONUS at SSEC and the assimilation of GOES-16 ABI observations
- ✓ **Bill Smith Sr.,** Observation System Experiments Supporting Future Satellite Sounding Instrument Development
- ✓ **Tom Greenwald,** An Exploratory Study of Stratiform Mixed-Phase Clouds using Multi- Sensor/Multi-Spectral Satellite Measurements
- ✓ **Jinlong Li,** Cloud-clearing for GEO-XO hyperspectral IR sounder cloudy radiances with collocated imager data using machine learning technique **Sam Batzli and Steven Greb,** Development of a Global Water Quality Portal Using the SSEC RealEarth™ Framework
- ✓ **Jason Otkin,** Leveraging the High Temporal Resolution of the Advanced Baseline Imager to Improve Daily Evapotranspiration Estimates across the United States
- ✓ **Pei Wang,** Optimizing ABI Clear Sky Radiance (CSR) Assimilation in Regional NWP for Local Severe Storm Forecast
- ✓ **Joe Taylor,** Support of NOAA BAA Studies for Next Generation LEO and GEO IR Sounders
- ✓ **Liam Gumley,** Support NOAA BAA Study Awarded to GeoMetWatch, as a Teaming Partner, to Study Pricing Options for a GeoMetWatch Commercial Sounder
- ✓ **Zhenglong Li,** A machine learning based quality control method for ABI water vapor band radiance assimilation
- ✓ **Jay Hoffman,** Satellite Detection of Sea Ice Leads Using Machine Learning
- ✓ **Larry Sromovsky,** Enhancing capabilities to retrieve H2S distributions on Uranus and Neptune