

ZP11/Jim Smoot/Weekly Notes

4/15/2014

PROPOSAL TO PHYSICAL OCEANOGRAPHY SOLICITATION SELECTED FOR FUNDING

(mail to: jason.b.roberts@nasa.gov/256-961-7477): A proposal entitled "A new paradigm for estimation of ocean surface air temperature and humidity using passive microwave observations" with Dr. Brent Roberts serving as a Principal Investigator in response to the NASA Research Opportunities in Space and Earth Science - 2013 Physical Oceanography solicitation has been selected for funding. The proposed research targets the development of a new retrieval technique applied to passive microwave remote sensing observations resulting in more precise quantification of ocean surface evaporation. This work supports numerous Earth Science research areas including in particular studies of the Earth's energy and water budgets. Work will be conducted with Co-Investigators from the Woods Hole Oceanographic Institution over the next three years.

PROPOSAL TO THE SCIENCE OF TERRA AND AQUA SOLICITATION SELECTED FOR FUNDING

(mail to: jason.b.roberts@nasa.gov/256-961-7477): A proposal entitled "Coupled atmosphere-ocean interactions in the suppressed phase of the Madden-Julian Oscillation using a multiplatform strategy" with Dr. Brent Roberts serving as a Principal Investigator in response to the NASA Research Opportunities in Space and Earth Science - 2013 The Science of Terra and Aqua solicitation has been selected for funding. The supported research will provide an interdisciplinary analysis of the Madden Julian Oscillation (MJO) — the most prominent mode of subseasonal tropical atmospheric variability. The analyses will make use of multiple NASA satellite sensors and the resulting analysis is expected to support the improvement of MJO simulation in coupled atmosphere-ocean general circulation models. The work will be conducted over the next three years with colleagues at NASA Marshall Space Flight Center, NASA Langley Research Center, and the Woods Hole Oceanographic Institution.

PRESENTATION AT THE AMERICAN METEOROLOGICAL SOCIETY (AMS) CONFERENCE ON HURRICANES AND TROPICAL METEOROLOGY (email:

timothy.j.lang@nasa.gov / 256-961-7861): Dr. Timothy Lang (ZP11) presented a poster at the AMS 31st Conference on Hurricanes and Tropical Meteorology, which occurred during 3/30/14-4/4/14 in San Diego, California. The poster was titled "Exploring the utility of the planned Cyclone Global Navigation Satellite System (CYGNSS) mission for investigating the initiation and development of the Madden-Julian Oscillation." Dr. Lang also presented this material as a talk in the same location one day prior to the conference, as part of the CYGNSS Extended Science Team meeting.

PRESENTATION AT NATIONAL CLIMATE ASSESSMENT (NCA) PRINCIPAL INVESTIGATOR (PI) Meeting (email to: william.koshak@nasa.gov /256-961-7963):

Dr. William Koshak (ZP11) attended the NCA PI Meeting April 8-9, 2014 at NASA Headquarters. This meeting allowed participants from both the NCA Center Call and the NCA Indicators Call to present status updates on their research, applications, and stakeholder community collaborations. Dr. Koshak gave a presentation on the latest findings of several lightning-related climate indicators, including a new lightning nitrogen oxides indicator that is inferred using Lightning Imaging Sensor (LIS) data. The meeting was very useful in allowing PIs and NASA management to interact and discuss optimization of indicators, and future plans.