

BAERI Scientists and SARP Students Involved in Over 38 Presentations at the 2017 AGU Conference

The American Geophysical Union Fall Meeting, the largest Earth and Space Science meeting in the world begins Sunday, December 10, 2017 in New Orleans, Louisiana at the Ernest N. Morial Convention Center. BAERI will be well-represented, with BAERI scientists involved in over 38 presentations. Moreover, nine undergraduates from the NASA Student Airborne Research Program (SARP) will also be presenting posters. (SARP is run by the National Suborbital Research Center at BAER Institute). The table below shows for the date, time, location, participant(s), and topic for the presentations. (SARP student presentations are highlighted in blue). The table is downloadable, and the listed activities are hyperlinked to abstracts published on the AGU website.

BAERI at 2017 AGU				
Date (2017)	Time	Location	BAERI/NASA Ames Participants	Activity
Monday December 11	08:45 – 09:00	Room 393-94	Yohei Shinozuka Jens Redemann	<u>Talk</u> A11O-04: An uncertainty analysis for satellite-based estimates of cloud condensation nuclei number concentrations
Monday December 11	08:00 – 12:20	Poster Hall D-F	Samuel E. LeBlanc Jens Redemann Michal Segal-Rosenhaimer Meloe S Kacenenbogen Yohei Shinozuka Kristina Pistone	<u>Poster Session</u> A11C-1898: Aerosol and cloud properties derived from hyperspectral transmitted light in the southeast Atlantic sampled during field campaign deployments in 2016 and 2017
Monday December 11	08:00 – 12:20	Poster Hall D-F	Shunta Muto (Tufts University)	<u>Poster Session</u> B11E-1715 Aircraft Observations of Nitrous Oxide (N ₂ O) in the San Joaquin Valley of California
Monday December 11	08:00 – 12:20	Poster Hall D-F	Daniel Huber (University of California Davis)	<u>Poster Session</u> B11E-1717: Examining Dimethyl Sulfide Emissions in California's San Joaquin Valley
Monday December 11	08:00 – 12:20	Poster Hall D-F	Kristina Pistone Samuel E. LeBlanc Jens Redemann Michal Segal-Rosenhaimer	<u>Poster Session</u> A11C-1899: Exploring the elevated water vapor signal associated with biomass burning aerosol over the southeast Atlantic Ocean

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			Yohei Shinozuka	
Monday December 11	08:00 – 10:00	Room R02-03	Irina Kitiashvili	<u>Poster Session Primary Convener</u> SH11C: Advances in Observations, Data-Constrained Modeling, and Predictions of Solar Activity from the Deep Interior to the Corona I
Monday December 11	10:20 – 12:20	Room R02-03	Irina Kitiashvili	<u>Poster Session Primary Convener</u> SH11C: Advances in Observations, Data-Constrained Modeling, and Predictions of Solar Activity from the Deep Interior to the Corona II
Monday December 11	13:40 – 6:00	Poster Hall D-F	Irina Kitiashvili	<u>Poster Session Primary Convener</u> SH13A: Advances in Observations, Data-Constrained Modeling, and Predictions of Solar Activity from the Deep Interior to the Corona Posters
Monday December 11	13:40 – 6:00	Poster Hall D-F	Irina Kitiashvili Nagi Mansour Alan Wray	<u>Poster Session</u> SH13A-2466: Solar activity across the scales: from small-scale quiet-Sun dynamics to magnetic activity cycles
Monday December 11	1:40 – 6:00	Poster Hall D-F	Alan Sheng Xi Li Ved Chirayath Michal Segal-Rosenhaimer	<u>Poster Session</u> IN13B-0066: NeMO-Net – The Neural Multi-Modal Observation & Training Network for Global Coral Reef Assessment
Tuesday December 12	08:00 – 12:20	Poster Hall D-F	Courtney MaryLou Batterson	<u>Poster Session</u> P23D-2754: Secular Climate Change on Mars: An Update
Tuesday December 12	08:00 – 12:20	Poster Hall D-F	Rei Ueyama	<u>Poster Session</u> A21I-2270: Impact of convection on stratospheric humidity and upper tropospheric clouds
Tuesday December 12	10:35 - 10:50	Room 291-92	Amber Jean Kuss McCullum Cindy Schmidt	<u>Talk</u> H22F-02: Satellite-based Drought Reporting on the Navajo Nation

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			Rachel Green	
Tuesday December 12	1:40 – 6:00	Poster Hall D-F	Luis Teodoro	<u>Poster Session</u> SH23C-2673: Enhanced Resolution Maps of Energetic Neutral Atoms from IBEX
Tuesday December 12	1:40 – 6:00	Poster Hall D-F	Tyler Dawson (Northern Arizona University)	<u>Poster Session</u> GC23B-1051: Dried Out: Phytoplankton Drought Response in the San Francisco Estuary
Tuesday December 12	1:40 – 6:00	Poster Hall D-F	Avery Renshaw (Towson University)	<u>Poster Session</u> GC23B-1065: Landsat satellite evidence of the decline of northern California bull kelp
Tuesday December 12	1:40 – 6:00	Poster Hall D-F	Claire Schmidt (Knox College)	<u>Poster Session</u> H23B-1641: Drought Effects on Riparian Vegetation in the Santa Clara River Basin Using Airborne Imaging Spectroscopy
Wednesday December 13	08:00 – 12:20	Poster Hall D-F	Josette Elizabeth Marrero Emma L Yates Ju-Mee Ryoo Warren Gore Laura T Iraci	<u>Poster Session</u> A31C-2190: Airborne Measurements and Air Quality Impacts of the 2016 California Soberanes Wildfire
Wednesday December 13	8:00 - 12:20	Poster Hall D-F	Subodh Kalia Shuang Li Sangram Ganguly Ramakrishna R Nemani	<u>Poster Session</u> H31G-1596: DeepSAT's CloudCNN: A Deep Neural Network for Rapid Cloud Detection from Geostationary Satellites
Wednesday December 13	8:00 - 12:20	Poster Hall D-F	Leila Narua Wahab (Rice University)	<u>Poster Session</u> GC31C-1015: Characterizing Drought Impacted Soils in the San Joaquin Valley of California Using Remote Sensing
Wednesday December 13	8:00 - 12:20	Poster Hall D-F	Jarrett van den Bergh	<u>Poster Session</u>

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				H31G-1591: A 3D Active Learning Application for NeMO-Net, the NASA Neural Multi-Modal Observation and Training Network for Global Coral Reef Assessment
Wednesday December 13	1:40 - 6:00	Poster Hall D-F	Alexandre Kling Christopher McKay Thomas Bristow	<u>Poster Session</u> P33C-2886: Lacustine conditions at Gale crater, Mars: A cold and wet hypothesis
Wednesday December 13	1:40 - 6:00	Poster Hall D-F	Steven Schill Joseph Bennett Kelly Edmond Pat Finch Sebastian Rainer Emily L Schaller Eric Stith David Van Gilst Adam Webster Mei Ying Yang	<u>Poster Session</u> A33B-2352: Recent Advancements in Atmospheric Measurements Made from NASA Airborne Science Platforms
Wednesday December 13	2:55 - 15:10	Rooms 291-92	Sangram Ganguly Subodh Kalia Shuang Li Andrew Michaelis* Ramakrishna R Nemani	<u>Talk</u> H33M-06: Very High Resolution Tree Cover Mapping for Continental United States using Deep Convolutional Neural Networks
Thursday December 14	08:00 – 12:20	Poster Hall D-F	Frederic Effenberger	<u>Poster Session Primary Convener</u> SH41A: Multiwavelength Observations and Modeling of Solar Flares: Magnetic Structures, Particle Acceleration, and Atmospheric Response Posters
Thursday December 14	08:00 – 12:20	Poster Hall D-F	Frederic Effenberger	<u>Poster Session</u> SH41A-2746: The size of coronal hard X-ray sources in solar flares: How big are they?

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Thursday December 14	08:00 – 12:20	Poster Hall D-F	Sreeja Nag Alan Sheng Xi Li	<u>Poster Session</u> IN41A-0022: Autonomous Scheduling Requirements for Agile Cubesat Constellations in Earth Observation
Thursday December 14	08:18 - 08:32	Room 252-54	Milan Gotic	<u>Talk</u> SH41C-02: Chromospheric Heating Driven by Cancellations of Internetwork Magnetic Flux
Thursday December 14	1:40 – 6:00	Poster Hall D-F	Philip Rund (University of Maryland Baltimore County)	<u>Poster Session</u> A43G-2557: Investigating Elevated Concentrations of Hydrogen in the LAX region
Thursday December 14	1:40 – 6:00	Poster Hall D-F	Wei Liu Lijia Guo	<u>Poster Session</u> SH43A-2803: The temporal evolution of explosive events and its implication on reconnection dynamics
Thursday December 14	1:40 – 6:00	Poster Hall D-F	Sanjiv Tiwari	<u>Poster Session</u> SH43A-2789: Invisibility of Solar Active Region Umbra-to-Umbra Coronal Loops: New Evidence that Magnetoconvection Drives Solar-Stellar Coronal Heating
Thursday December 14	1:40 – 6:00	Poster Hall D-F	Juan Luis Torres-Perez	<u>Poster Session</u> IN43B-0074: Coral Bleaching Assessment Through Remote Sensing and Integrated Citizen Science (CoralBASICS): Engaging Dive Instructors on Reef Characterization in Southwest, Puerto Rico Coupled with the Analysis of Water Quality Using NASA Earth Observations
Friday December 15	08:00 – 8:15	Room 242	Emily Schaller	<u>Talk</u> ED51A-01: NASA's Student Airborne Research Program (SARP) 2009-2017 (Invited)
Friday December 15	08:00 – 12:20	Poster Hall D-F	Keegan Quigley (Brown University)	<u>Poster Session</u>

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				GC51B-0805: An Active Fire Temperature Retrieval Model Using Hyperspectral Remote Sensing
Friday December 15	08:00 – 12:20	Poster Hall D-F	Jacklyn Hallett (University of Utah)	<u>Poster Session</u> GC51B-0810: Ten Years of Post-Fire Vegetation Recovery following the 2007 Zaca Fire using Landsat Satellite Imagery
Friday December 15	08:00 – 12:20	Poster Hall D-F	Michal Segal-Rosenhaimer Jens Redemann Samuel E LeBlanc	<u>Poster Session</u> A51E-2101: Bias and sensitivity of boundary layer clouds and surface radiative fluxes in Arctic reanalysis and airborne observations over the marginal ice zone during the ARISE campaign
Friday December 15	10:50 - 11:15	Room R02-03	Lijia Guo	<u>Talk</u> SH52B-03: Solar Flare Termination shock and the Synthetic Fe XXI 1354.08 Å line
Friday December 15	1:40 - 6:00	Poster Hall D-F	Qian Tan	<u>Poster Session</u> A53A-2191: PM2.5 variation related to AOD and meteorological conditions on diurnal scale in Beijing, China