

Atmospheric System Research (ASR) - List of Awards DE-FOA-0002391			
Title	Lead PI	Institution	Location
Observation-based Constraints on the Condensational Growth of Marine Aerosol Particles to Cloud Condensation Nuclei in the Eastern North Atlantic	Bertram, Timothy	University of Wisconsin, Madison	Madison, WI
Laboratory Investigations of Aerosol-Cloud Interactions in an Entraining, Turbulent Environment	Cantrell, Will	Michigan Technological University	Houghton, MI
Boundary layer theory for canopies covering complex terrain: Going from eddies in motion to biosphere-atmosphere exchanges and their representation in climate models	Chamecki, Marcelo	University of California, Los Angeles	Los Angeles, CA
Closing the gap on understudied aerosol-climate processes in the rapidly changing central Arctic	Creamean, Jessie	Colorado State University	Fort Collins, CO
Combining long-term observations and Lagrangian case studies to evaluate stratiform cloud precipitation processes in climate models	Fridlind, Ann	Lead: NASA - Goddard Space Flight Center	Greenbelt, MD
Combining long-term observations and Lagrangian case studies to evaluate stratiform cloud precipitation processes in climate models	Russell, Lynn	Collaborator: University of California, San Diego	La Jolla, CA
Insights from ARM observations into aerosol processing and transport by extratropical cyclones and aerosol effects on cyclone clouds	Gordon, Hamish	Carnegie Mellon University	Pittsburgh, PA
Exploring Past and Future Drivers of Biogenic SOA	Heald, Colette	Massachusetts Institute of Technology	Cambridge, MA
Brown Carbon Production and Loss in Atmospheric Clouds: Dynamic Changes due to Droplet Drying, pH, and Photolysis	Hennigan, Christopher	University of Maryland Baltimore County	Baltimore, MD
Understanding spatial organization during precipitation-induced convective cloud transitions	Heus, Thijs	Cleveland State University	Cleveland, OH
Observational Assessment of Aerosol Impacts on Updraft Speed in Deep Convection	Igel, Adele	University of California, Davis	Davis, CA
Vertically-Resolved Measurements of Nucleation Precursors	Jen, Coty	Carnegie Mellon University	Pittsburgh, PA
Boundary layer and orographic controls on convection initiation during CACTI	Lareau, Neil	University of Nevada, Reno	Reno, NV
Spectro-Microscopic Investigation of the Aerosol Impact on Hydrological Processes	Laskin, Alexander	Purdue University	West Lafayette, IN
Investigating spatial variability of aerosol, cloud condensation nuclei, and ice nucleating particles in mountainous terrain	Levin, Ezra	Handix Scientific LLC	Boulder, CO
Search for a Cloud Phase Feedback in the Arctic Climate System	Lubin, Dan	University of California, San Diego	La Jolla, CA
High Latitude Aerosol-Cloud Interaction during MARCUS, MICRE, and AWARE: The role of CCN variability on Marine Cloud Brightening and links to Precipitation	Mace, Gerald	University of Utah	Salt Lake City, UT
Investigations of snowfall processes based on multi-sensor measurements collected during the MOSAIC expedition	Matrosov, Sergey	University of Colorado, Boulder	Boulder, CO
Mesoscale Organization in Cumulus-Coupled Marine Stratocumulus	Miller, Mark	Rutgers, The State University of New Jersey	Piscataway, NJ
Cloud Water Chemistry and Aerosol Processing: Assessing the Hydroxyl Radical Burst in Newly Formed Cloud Droplets	Paulson, Suzanne	University of California, Los Angeles	Los Angeles, CA
Dynamics of Shallow to Deep Convective Transitions During CACTI	Powell, Scott	Naval Postgraduate School	Monterey, CA
Investigation of clouds, aerosols, vertical motion, and cold pools during the full convective lifecycle using observations and model simulations from the CACTI field campaign	Rasmussen, Kristen	Colorado State University	Fort Collins, CO
Effects of large-scale motions on turbulent heat and moisture transport in the convective boundary layer	Salesky, Scott	University of Oklahoma	Norman, OK
Interplay of Gas-phase Reactions and Multi-phase Processes on Phase State and Growth Dynamics of Secondary Organic Aerosols	Shiraiwa, Manabu	University of California, Irvine	Irvine, CA
High-detail aerosol simulation for intercomparison with spatially-distributed and pointwise field measurements and global models	West, Matthew	University of Illinois	Champaign, IL
Interactions Between Clouds and Wind-Driven Surface Heat Exchanges over Land	Williams, Ian	Iowa State University	Ames, IA
Investigating the Impacts of Aqueous-Phase Processing on Organic Aerosol Chemical Climatology Using ARM and ASR Observations	Zhang, Qi	University of California, Davis	Davis, CA