

# Department of Energy Announces \$15.3 Million for Atmospheric System Research

Announcement Number: DE-FOA-0002850

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Principal Investigator	Title	Institution	City	State	9-digit zip code
Adebiji, Adeyemi	Investigating the overlooked longwave impacts of mineral dust on warm boundary-layer clouds	University of California, Merced	Merced	CA	95343-5001
Brooks, Sarah	Influence of Aerosol Physicochemical Properties on Ice Nucleation in Convective Clouds	Texas A&M University	College Station	TX	77845-4321
de Boer, Gijs	Integrated Perspectives on Clouds, Precipitation, and the Surface Energy Budget in the Colorado Rocky Mountains using Observations from SAIL and SPLASH	University of Colorado	Boulder	CO	80309-1058
Feingold, Graham	Aerosol-Cloud Interactions Centered on MAGIC: Insights from Measurements and Lagrangian Large Eddy Simulation	NOAA/OAR	Boulder	CO	80305-3337
Freeman, Sean	Examining the Influences of Changing Aerosol and Thermodynamics on Southeastern Isolated Convective Clouds using New Observations and Advanced Modeling	University of Alabama in Huntsville	Huntsville	AL	35899-0001
Goldstein, Allen	Vertically-Resolved Aerosol Composition Measurements for Improved Understanding of Aerosol Processes and Aerosol-Cloud Interactions Impacting Deep Convection during TRACER	University of California, Berkeley	Berkeley	CA	94710-5940
Gutmann, Ethan	Changing diurnal energy cycles impact net water vapor fluxes in mountain watersheds	University Corporation for Atmospheric Research	Boulder	CO	80301-2252
Huang, Yongjie	Surface, Aerosol, and Meteorological Controls on Subtropical Coastal Metropolitan Convective Clouds: Observations and Simulations from TRACER	University of Oklahoma	Norman	OK	73019-9705
Juliano, Timothy	Examining the influence of heterogeneous forest canopy on shallow convection at the third ARM Mobile Facility (AMF3) site	University Corporation for Atmospheric Research	Boulder	CO	80301-2252
Mecikalski, John	Understanding Convective Cloud Evolution through Analysis of ARM AMF3 Surface, Radar, GOES-16 Satellite Observations, and Numerical Model Simulations	University of Alabama in Huntsville	Huntsville	AL	35899-0001
Perkins, Russell	Comprehensive Characterization of the Seasonal Cycles of Ice Nucleating Particles for Studies of Precipitation Drivers in SAIL	Colorado State University	Fort Collins	CO	80523-2002
Sheesley, Rebecca	Gas-phase precursors, aerosol composition and new particle formation during TRACER using spatially resolved TRACER-MAP datasets; TRACER-MAP-NPF	Baylor University	Waco	TX	76798-7360
Smith, William	Atmospheric regimes and drivers of cloud variability and aerosol-cloud-radiation interactions over the coastal northeast Pacific	NASA Langley Research Center	Hampton	VA	23681-2199
Steiner, Allison	Aerosol-cloud interactions driven by primary and secondary biological aerosols during TRACER	University of Michigan	Ann Arbor	MI	48109-1274
Tian, Yang	Untangling Dynamical and Microphysical Controls of Convective Updraft Vertical Velocity: Insights From a Lagrangian Perspective	University Corporation for Atmospheric Research	Boulder	CO	80301-2252
Torri, Giuseppe	Initiation of deep convection by boundary-layer circulations during TRACER	University of Hawaii	Honolulu	HI	96822-2234
Turner, David	Characterizing Boundary Layer Processes During Transition Periods With Observations and Modeling	NOAA/OAR	Boulder	CO	80305-3337
Vagasky, Hannah	Comparison of TRACER and GoAmazon Deep Convective Clouds with Respect to Urban Aerosol Load	Atmospheric and Environmental Research, Inc.	Lexington	MA	02421-3126
Wagner, Timothy	Characterizing Boundary Layer Processes During Transition Periods With Observations and Modeling	University of Wisconsin	Madison	WI	53715-1218
Wang, Jingfeng	A Theoretical and Observational Study of the Impact of Longwave Radiation on Snowmelt and Sublimation using SAIL/SPLASH Field Observations	Georgia Institute of Technology	Atlanta	GA	30332-0420
Wang, Yang	Interactions between the boundary layer new particle formation and cloud systems: observations from ARMS Southeast U.S. field campaign	University of Miami	Coral Gables	FL	33146-2403

Welp, Lisa	Using water stable isotopes to quantify the roles of entrainment, drizzle, and aerosols in determining marine stratocumulus properties	Purdue University	West Lafayette	IN	47906-1332
Yuan, Tianle	Assessing the Dependence of Aerosol-Cloud Interactions on Low-Cloud Mesoscale Morphology with ARM Observations	University of Maryland Baltimore County	Baltimore	MD	21250-0001
Zhang, Yue	Pilot Study: Improving the Characterization of Cloud Formation Properties and Hygroscopicity of Aerosol Particles in the Southeastern U.S. Region	Texas A&M University	College Station	TX	77845-4321