

Department of Energy Announces \$8 Million for Research on Earth System Model Development and Analysis

Announcement Number: DE-FOA-0002593

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Principal Investigator	Title	Institution	City	State	9-digit zip code
Pritchard, Michael	Exploring global aerosol cloud interactions in unprecedented numerical fidelity by combining breakthroughs in multi-scale modeling, GPU supercomputing & neural network process emulation.	University of California, Irvine	Irvine	CA	12345-6789
Neelin, J. David	Extreme precipitation features and their large-scale environments	University of California, Los Angeles	Los Angeles	CA	90095-1406
O'Brien, Travis	Investigating the Effects of Co-Occurring Weather Phenomena on Extreme Precipitation in Reanalysis, E3SM, and CMIP6	Indiana University	Bloomington	IN	47401-3654
Lee, Chia-Ying	The forced trends in the tropical Pacific and global tropical cyclones in Earth System Models	Columbia University (Morningside Campus)	New York	NY	10027-7922
Fedorov, Alexey	The mechanisms, impacts and predictability of extreme El Niño events in E3SM and other Earth system models: quantifying the role of westerly wind bursts	Yale University	New Haven	CT	06520-8327
Song, Xiaoliang	Madden-Julian Oscillation Simulation in E3SM and the Roles of Convective Cloud Microphysics	University of California-SIO	La Jolla	CA	92093-0210
Feldl, Nicole	Extreme Moist Transport Events as a Driver of Arctic Amplification	University of California, Santa Cruz	Santa Cruz	CA	95064-1077
Wang, Guiling	Extreme Precipitation Scaling With Temperature Across Weather-Climate Timescales and the Role of Land Surface Feedback	University of Connecticut	Storrs	CT	06269-1133
Morrison, Hugh	Building a next-generation microphysics scheme for E3SM: a data-driven, physically constrained, single-category approach	University Corporation for Atmospheric Research (UCAR)	Boulder	CO	80301-2252
Jablonowski, Christiane	Introducing a Deep-Atmosphere Version of E3SM's Dynamical Core to Reduce Climate Model Biases	University of Michigan	Ann Arbor	MI	48109-1274