

Earth & Environmental Systems Modeling - List of Awards
DE-FOA-0002230

Title	Lead PI	Institution	Location
ECS in climate models: quantifying the uncertainties due to cloud feedback versus ocean heat uptake using a modeling hierarchy	Cheng, Wei	University of Washington	Seattle, WA
Refining the representations of high-latitude surface-atmosphere radiative coupling in the E3SM	Huang, Xianglei	University of Michigan	Ann Arbor, MI
Understanding Cloud Feedback and Climate Sensitivity in E3SMv1 and CMIP6 Models: Roles of Cloud Microphysics and Aerosol-Cloud Interactions	Liu, Xiaohong	Texas A&M University	College Station, TX
Tracking carbon dioxide in the Southern Ocean	Lovenduski, Nicole	University of Colorado	Boulder, CO
Development of the E3SM Marine Biogeochemistry for Studying Biogeochemistry-Climate Feedbacks	Moore, Jefferson	University of California, Irvine	Irvine, CA
Bridging spatio-temporal scales to observationally constrain the cloud feedback pattern effect	Proistosescu, Cristian	University of Illinois	Champaign, IL
Coupling model intercomparison with synthesized experimental data across time and space to constrain carbon dynamics and biogeochemical cycling in permafrost ecosystems	Schaedel, Christina	Northern Arizona University	Flagstaff, AZ
A highly efficient deep-learningbased parameter estimation and uncertainty reduction framework for ecosystem dynamics models	Shen, Chaopeng	The Pennsylvania State University	University Park, PA
The Role of Vegetation in Past and Future Global Hydroclimatic Change	Smerdon, Jason	Columbia University, Morningside Campus	New York, NY
Understanding the Role of Aerosol / Cloud Interactions in North Atlantic and Pacific Climate Variability	Vimont, Daniel	University of Wisconsin, Madison	Madison, WI
Toward improving the simulation of tropical precipitation in E3SM	Zhang, Guang	University of California, San Diego (SIO)	La Jolla, CA