

CESM/CARMA Development Papers

- Bardeen et al., "Numerical simulations of the three-dimensional distribution of meteoric dust in the mesosphere and upper stratosphere," JGR, 2008.
- Su, et al., "Numerical simulations of Asian dust storms using a coupled climate-aerosol microphysical model," JGR, 2009.
- Fan, et al., "Modeling sea-salt aerosol in a coupled climate and sectional microphysical model: mass, optical depth and number concentration," ACP, 2011.
- English et al., "Microphysical simulations of new particle formation in the upper troposphere and lower stratosphere," ACP, 2011.
- Zhu et al., "Development of a polar stratospheric cloud model within the Community Earth System Model using constraints on Type I PSCs from the 2010–2011 Arctic winter," JAMES, 2015.
- Yu et al., "Evaluations of tropospheric aerosol properties simulated by the community earth system model with a sectional aerosol microphysics scheme," JAMES, 2015.
- Zhu et al., "Development of a polar stratospheric cloud model within the Community Earth System Model: assessment of 2010 Antarctic winter," JGR, 2017.
- Yu et al., "Black carbon lofted wildfire smoke high into the stratosphere to form a persistent plume," Science, 2019.
- Zhu et al., "Persisting volcanic ash particles impact stratospheric SO₂ lifetime and aerosol optical properties," Nature Communications, 2020.