



2022 Joint EOL/CGD/MMM Seminar Series

ICE AND MIXED-PHASE CLOUD MICROPHYSICAL PROPERTIES AND AEROSOLS INDIRECT EFFECTS BASED ON MULTI-SCALE OBSERVATIONS AND CLIMATE MODEL SIMULATIONS

Dr. Minghui Diao

Assistant Professor
Department of Meteorology and Climate Science
San Jose State University
minghui.diao@sjsu.edu

DATE: March 29, 2022

TIME: 3:30-4:30 pm MST

WEBCAST: <u>operations.ucar.edu/live-eol</u>

QUESTIONS: Participants may ask questions during the seminar via Slido



Ice and mixed-phase clouds play an essential role in Earth's climate system. This talk will focus on macrophysical, microphysical and radiative properties of these clouds over Southern Ocean, Antarctica, and the Arctic. A survey of the key factors that control cloud formation and evolution will be presented, including dynamical and thermodynamic conditions, and aerosol indirect effects. Specifically, this study aims to bridge the gaps between high-resolution observations and global climate model simulations. A scale-aware comparison will be conducted between observations from aircraft-, ship- and ground-based field campaigns and simulations based on the NCAR CESM and DOE E3SM models.

EOL Seminar Series Coordinator: Jacquie Witte jwitte@ucar.edu

This webcast will be recorded and uploaded to the NCAR Earth Observing Laboratory YouTube Channel