



国际气候与环境科学中心  
International Center for Climate and Environment Sciences

# 学术报告

## Clouds and aerosols: linking aircraft measurements, satellite observations and model simulations



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### Abstract

Clouds and aerosols are two key components in the Earth's atmosphere. A key step towards an improved understanding of clouds and aerosols is linking observations with simulations. For the first part of this seminar, I will talk about the comparisons between in-situ aircraft observations and climate model simulations of the NCAR Community Atmosphere Model version 5 (CAM5). Specifically, I will focus on cloud microphysics and relative humidity distributions over the Southern Ocean. The second part of this seminar will showcase the applications of satellite observations of aerosol optical depth (AOD) for assisting air pollution management in the Bay Area in California. Surface-level PM<sub>2.5</sub> concentrations will be derived from satellite AOD, which complement the existing ground-based monitor measurements.

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