

Chinese Academy of Sciences Earth System Model (CAS-ESM) and Its Climate Sensitivity



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I will start the presentation with an introduction of the Chinese Academy of Sciences Earth System Model (CAS-ESM). This includes brief descriptions of the main components of the atmosphere, land, ocean, vegetation, chemistry, aerosols, as well as its two-way nesting capability with a mesoscale weather forecast model (WRF). I will then highlight the strength and weakness of the model, both unique to this model and common to other models. Ongoing efforts to improve the model will be discussed. I will finally show results of the climate sensitivity and mechanism of cloud-climate feedbacks in this model.

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10:00 a.m. - 11:00 a.m.



**Lecture Theatre 7, 3/F
Cheng Yu Tung Building**
([Map](#))



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