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Soil Organic Carbon Dynamics and Climate Change

Speaker: Dr. Yujie He University of California, Irvine, USA

Time: 10:00 am Dec 5, 2016

Venue: Conference Room, Ecology Building

(生态楼二层会议室)

Person to contact: Lingli Liu (刘玲莉), 62836160

Brief Introduction of Speaker:

Yujie He is a project scientist of the Department of Earth System Science, UC Irvine. She obtained her PhD from Purdue University in 2014, and BS from Fudan University. Her research focuses on the carbon-climate feedback of the terrestrial ecosystem, in particular the soil organic carbon dynamics and its sequestration potential under climate change. The techniques used including model-data assimilation, uncertainty and sensitivity analysis of various conceptual models (e.g. microbial-based model), and the incorporation of ¹⁴C data in constraining soil carbon residence time. Her current work focus on the global data synthesis of soil ¹⁴C data and the development of benchmarking data products for Earth System Models (ESMs). She also works on model developments that better assimilate the ¹⁴C constraint and improve the representation of soil carbon dynamics in the ESMs. The ultimate goal is to enhance the process-based understanding of the soil carbon dynamics and its responses to the changing climate.

