



“SOUTHERN OCEAN DYNAMICS AND CARBON CYCLE”

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Monday, November 4, 2013
3:30 PM
Room 1202, Engineering and Computational Sciences Building

Abstract

The extra-tropical southern hemisphere oceans are responsible for approximately 40% of the oceanic carbon uptake, which has experienced significant climate trends in the last several decades. However, its response to ongoing and future climate perturbation is uncertain, and the estimates of future carbon storage in this region from IPCC-class models are highly variable. This presentation will first introduce relevant physical and biogeochemical processes, and then discuss recent advances in modeling the eddy-mean flow interaction and its implications to the regional carbon uptake and storage.

Biography

Dr. Ito received a Ph.D. in 2005 from the Massachusetts Institute of Technology (MIT), with Drs. John Marshall and Mick Follows as his advisors. He has served as an assistant professor in the School of Earth and Atmospheric Sciences at Georgia Tech since 2011. Dr. Ito's research has focused on the large-scale climate and ocean biogeochemical modeling.

Reception before seminar at 3:00 PM