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Meteorology Ph.D. Candidate
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Date: Wednesday, November 25, 2015
Seminar Time: 3:30pm
Location: Marine Sciences Building, MSB 100

Abstract:

The zonal SST pattern in the tropical Pacific to global warming is determined by the balance between the atmospheric heat flux feedback, the Bjerknes feedback related to the slowdown of the Walker Circulation, and the oceanic upwelling damping, known as the ocean thermostat. The climate models differently considers the relative importance of the mechanisms, therefore, they show a great diversity in the SST warming in the tropical Pacific. So far, many of the studies examined how the each of the mechanism works in global warming through diagnostic approaches or idealized experiments without atmosphere-