

# CGD SEMINAR



**DATE:** Tuesday, 23 January 2018

**TIME:** 11 a.m.

**LOCATION:** NCAR, 1850 Table Mesa Drive  
Mesa Lab, Main Seminar Room

**TITLE:** Internal climate variability and potentially avoided impacts of the projected future regional sea level rise

**SPEAKER:** Aixue Hu, NCAR

## ABSTRACT:

Observational evidence points to a warming global climate accompanied by rising sea levels. This sea level rise (SLR) imposes significant impacts on island and coastal communities, especially compounded with storm surges. Here, by analyzing two sets of ensemble simulations from a climate model, we investigate potential SLR that may be avoided if a lower emission scenario is followed instead of business-as-usual one over the 21st Century and how it may be modulated by internal climate variability. Results show almost no statistically significant difference in thermosteric and dynamic SLR on both global and regional scales in the near-term between the two scenarios, but statistically significant SLR reduction for the global mean and many regions later in the century (2061-2080). However, there are regions where the reduction is insignificant, such as the Philippines and west of Australia, associated with ocean dynamics and intensified internal variability due to external forcing.

**Live webcast:** <http://www.fin.ucar.edu/it/mms/ml-live.htm>

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