

# CGD SEMINAR



## Joint CGD/ACD Seminar

**DATE:** **Monday, 25 June, 2012**

**TIME:** **3:30 p.m.**

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

**SPEAKER:** **Kevin Hamilton, University of Hawaii**

**TITLE:** **Regional climate change projections  
for Hawaii - preliminary results**

**ABSTRACT:**

Hawaii is located in a dominant trade wind meteorological regime (TWMR). The TWMR covers a very significant fraction of the globe, but relatively few people live in this zone. The densely populated Hawaiian islands present perhaps the most notable exception. While Hawaii is known for its pleasant weather, climate variations and climate change can present significant challenges to the residents. Sea level rise, beach erosion and threats to coral health are all familiar issues for the State. On the terrestrial side as well there are significant concerns including impacts of droughts on fresh water resources and impacts of global warming on plant and wildlife habitat. In this talk I will present some preliminary results from an ongoing initiative to project future climate changes in Hawaii using very fine resolution regional models, and to assess the practical implications. The focus in this talk will be on simulation of rainfall over Hawaii for present day conditions and for possible future scenarios. The interaction of the large scale flow with the very steep and fine scale topography on the main Hawaiian islands presents particular challenges, and I will discuss the current state of our simulations and our plans for future work.

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

\* Refreshments are served before seminar. \*

For more information, contact Gaylynn Potemkin, email [potemkin@ucar.edu](mailto:potemkin@ucar.edu), phone: 303.497.1618