The Science of Climate Change in Hawai‘i

Asia Room, East-West Center, 1:30-5:00 pm January 19 & 20, 2011

Wednesday, January 19, 1:30-5:00 pm

Brian Taylor  *Introductory Remarks*

1. The Global Context

Kevin Hamilton  *Uncertainties in Global Projections*

Artur Braun  *Soot Effects on Climate*

Brian Popp  *Ocean Acidification and Nitrogen Cycling in the World Ocean*

Discussion  [Discussion Leader: Shang-Ping Xie]

2. The Indo-Pacific Ocean Regional Context

Fei-Fei Jin  *Recent History and Future Projections of Indo-Pacific Climate*

Mark Merrifield  *Observations and Attribution of Regional Sea-Level Changes*

Discussion  [Discussion Leaders: John Marra & Roger Lukas]
3. Observed Trends in Local Climate Variables

Tom Giambelluca  *Observed Trends in Temperature, Inversion Height, Rainfall in Hawai‘i*

Pao-Shin Chu  *Observed Trends in Rainfall and Wind in Hawai‘i*

Hiroyuki Murakami  *Hawaii Climate Change in the T969 MRI Global Simulation*

Discussion [Discussion Leader: Tom Schroeder]

Thursday, January 20, 1:30-5:00 pm

4. Hydrology

Gordon Tribble  *USGS Hydrology Collaborations with UH and Other Local Partners*

Delwyn Oki  *Observed Trends in Rainfall/Streamflow/Groundwater and Perspective on the Possible Effects of Climate Change on Freshwater Resources*

Oliver Elison Timm  *Statistical Downscaling of Rainfall Projections for Hawai‘i*

Axel Lauer  *State of Regional Atmospheric Modeling for the Hawai‘i Climate Prediction Problem*

Yileng Chen  *Very High Spatial Resolution Modeling of Hawaii Weather and Climate*

Discussion [Discussion Leaders: Gordon Tribble & Bin Wang]

5. Ocean Trends

Roger Lukas  *Observed Trends in Ocean Properties Near Hawai‘i*

Brian Powell  *State of Regional Ocean Modeling for the Hawai‘i Climate Prediction Problem*

Brian Schubert  *Analysis of Tree Rings for Determining Hawai‘i Climate History*

Discussion  [Discussion Leader: Bo Qiu]
6. Other Issues and General Discussion

Tim Li  *Modeling Trends in Central Pacific Hurricane Climatology*

Melissa Finucane  *Pacific RISA: The Climate Adaptation Partnership for the Pacific*

John Marra  *NOAA Regional Climate Services*

Discussion  [Discussion Leader: Kevin Hamilton]