Projects and ActivitiesFri Mar 29 03:18:36 HST 2024

Name	Integrated Management of Maui Water Resources under Future Climate Conditions
Capability Area: Variability/Changes	- Understanding Climate Variability and Change - Projections (modeling and downscaling)
ECV	- Surface (e.g., temp, precip, wind) - Upper-Air
Timeframe	- Intra-annual to Decadal - Multi-decadal (scenarios)
Capability Area: Impacts/Adaptations	- Understanding Climate Impacts and Informing Adaptation - Climate Adaptation - Policies and Legislation - Assessment and Evaluation
Sectors	- Public Health and Safety - Fresh Water Resources - Energy - Community Planning and Development - Social and Cultural Resources - Agriculture and Fisheries
Status	- Ongoing
Focus Area	- Fresh Water Resources and Drought
Regions	- Central North Pacific - State Of Hawaii
Description	This project has three components: 1) Examine climate-sensitive decisions related to fresh water management in the Iao Watershed on Maui Island, and to support implementation of the Maui Water Budget with the Maui County Department of Water Supply. Specific questions being addressed include: a) What climate-sensitive decisions are stakeholders making about fresh water management? b)What climate information do/could they use to support their decision making? and c) What capabilities do they have to use climate information?; 2) Produce downscaled climate projections for the island of Maui using statistical and numerical modeling; 3) Use downscaled projections of local climatic conditions together with stochastic hydrologic models to assess the sustainability of ground water resources in the Iao Watershed.

Objectives/Outcomes	1) Downscaled climate projections for Maui Island. 2) Hydrologic model assessing the sustainability of ground water resources in the Iao Watershed. 3) Implementation of the Maui Water Budget with the Maui County Department of Water Supply. 4) Summary report of findings from stakeholder assessment. 5) Workshops to ground truth the findings.
Lead Agencies	East-West Center (EWC), International Pacific Research Center (IPRC), Water Resources Research Center (WRRC)
Contacts	Melissa Finucane, EWC, finucanm@eastwestcenter.org Victoria Keener, EWC, keener@eastwestcenter.org Aly El-Kadi, UH WRRC, elkadi@hawaii.edu Kevin Hamilton, IPRC, kph@hawaii.edu
Partnering Agencies	PICCC, USGS are providing input on methods, materials, and interpretation of results.
Required Resources	The project is funded by NOAA via the Pacific RISA program.
Projected Timelines	2012 – 2014
Feedback/Evaluation	The project provides an opportunity for stakeholders to comment on and make recommendations about findings. The Pacific RISA program is also developing evaluation metrics that will examine the extent to which this project is addressing stakeholder priorities related to climate adaptation.