Projects and ActivitiesWed Mar 27 22:56:00 HST 2024

Name	Climate Change and Pacific Island Water Resources
Capability Area: Variability/Changes	- Understanding Climate Variability and Change - Projections (modeling and downscaling)
ECV	- Surface (e.g., temp, precip, wind) - (e.g., surface water, glaciers and ice caps, land cover, biomass)
Timeframe	- Intra-annual to Decadal
Status	- Ongoing
Focus Area	- Fresh Water Resources and Drought - Marine and Terrestrial Ecosystems
Regions	- Central North Pacific - State Of Hawaii
Description	We are taking a three-tiered approach to examine how changes in precipitation will impact stream flow and habitat. The first tier is a space for time substitution, where are sampling various parameters in streams located along a naturally occurring steep precipitation gradient (2500-6000 mm/yr). The second tier involves remeasuring those parameters over to document inter and intra annual variation. The third tier incorporates all of the above data into a model (DHSVM) to forecast the impacts of climate change on stream ecosystems.
Objectives/Outcomes	To date, we have published two Forest Service GTR brochures.
Lead Agencies	USFS/PSW, State of Hawaii DAR, UH Manoa, UH Hilo, Kamehameha Schools, Michigan State University
Contacts	Rich MacKenzie, rmackenzie@fs.fed.us
Partnering Agencies	PICCC
Projected Timelines	2010-2014