



Projects and Activities Wed May 23 04:24:36 HST 2018

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| 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 we 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 |
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| Partnering Agencies | PICCC |
| Projected Timelines | 2010-2014 |