



Projects and Activities Thu Apr 18 17:59:38 HST 2024

Name	Effect of Groundwater Pumping and Climate Change on Anchialine Ponds in West Hawaii
Capability Area: Variability/Changes	<ul style="list-style-type: none"> <li>- Understanding Climate Variability and Change</li> <li>- Research/Development</li> </ul>
ECV	<ul style="list-style-type: none"> <li>- Surface (e.g., temp, precip, wind)</li> <li>- (e.g., surface water, glaciers and ice caps, land cover, biomass)</li> </ul>
Timeframe	- Multi-decadal (scenarios)
Status	- Ongoing
Focus Area	<ul style="list-style-type: none"> <li>- Fresh Water Resources and Drought</li> <li>- Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience</li> <li>- Marine and Terrestrial Ecosystems</li> </ul>
Regions	<ul style="list-style-type: none"> <li>- Central North Pacific</li> <li>- State Of Hawaii</li> </ul>
Description	Experimental tests of tolerances native Hawaiian damselflies and shrimp to a range of salinity. As sea level rises and/or precipitation and groundwater flows decrease in West Hawaii, the ability of native pool fauna to survive in anchialine pools will depend partly on salinity tolerance. Use experimental data on the sensitivity of aquatic invertebrates in anchialine ponds to assess how climate change will affect their habitat.
Lead Agencies	USGS/PIERC, NPS, UC Berkeley
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Partnering Agencies	PICCC
Projected Timelines	1994-2014