Projects and ActivitiesFri Mar 29 01:55:11 HST 2024

Name	Effect of Groundwater Pumping and Climate Change on Ancialine Ponds in West Hawaii
Capability Area: Variability/Changes	- Understanding Climate Variability and Change - Research/Development
ECV	- Surface (e.g., temp, precip, wind) - (e.g., surface water, glaciers and ice caps, land cover, biomass)
Timeframe	- Multi-decadal (scenarios)
Status	- Ongoing
Focus Area	- Fresh Water Resources and Drought - Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience - Marine and Terrestrial Ecosystems
Regions	- Central North Pacific - State Of Hawaii
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
Contacts	David Foote, DFoote@usgs.gov
Partnering Agencies	PICCC
Projected Timelines	1994-2014