Projects and ActivitiesWed Mar 27 22:07:09 HST 2024

Name	Pacific Islands Climate Change Cooperative (PICCC)
Capability Area: Variability/Changes	- Understanding Climate Variability and Change - Research/Development - Historical Observations (hindcasts/climatologies) - Projections (modeling and downscaling) - Training and Capacity Building, Education, Outreach
ECV	- Surface (e.g., temp, precip, wind) - Surface (e.g., SST, SSH, salinity, ocean color) - Sub-surface (e.g., temp, salinity, nutrients, carbon, phytoplankton) - (e.g., surface water, glaciers and ice caps, land cover, biomass)
Timeframe	- Seasonal (outlook) - Intra-annual to Decadal - Multi-decadal (scenarios)
Capability Area: Impacts/Adaptations	- Understanding Climate Impacts and Informing Adaptation - Climate Impacts - Research/Development - Historical Observations (hindcasts/climatologies) - Projections (modeling and downscaling) - Climate Adaptation - Training and Capacity Building, Education, Outreach - Assessment and Evaluation
Sectors	- Community Planning and Development - Social and Cultural Resources - Ecosystems
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 - Western North Pacific - CNMI - FSM - Guam - Palau - RMI - South Pacific - American Samoa
Description	The research program of the PICCC is focused on providing original science products and syntheses that will assist managers of natural and cultural resources in adapting to climate change and related large-scale threats. The PICCC seeks to coordinate its research program with other entities funding and disseminating basic and applied science in the Pacific Islands. The PICCC awards research grants through annual solicitations, directly funds specialized projects, and creates products in-house. The research results are then disseminated to our Members and external partners via workshops and trainings, presentations, and publications. In this way the PICCC fosters a dialogue across our membership and with key stakeholders, thus supporting a community of learning that can adapt to new knowledge and practices.
Objectives/Outcomes	Current projects include: climate model downscaling for Hawaii; observations of montane climate and related vegetation changes across and above the trade-wind inversion; development of rainfall and temperature proxies; future sea-level and wave impacts to wetlands and coastlines; basin- and archipelago-scale oceanographic climatologies; coral responses to changes in temperature, ocean chemistry and light in both laboratory and field conditions, and projections of such impacts for the Pacific Basin; effects of environmental change on forest birds and seabirds; a watershed model that integrates effects of invasive species and climate change; the role of Hawaiian traditional ecological knowledge in community resiliency to climate change; and a climate change vulnerability assessment for the native Hawaiian flora and forest birds using a new Bayesian network approach.
Lead Agencies	HCA, USFWS, USGS, NPS, NOAA, OIA
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