

Projects and ActivitiesFri Apr 19 11:41:21 HST 2024

Name	The Impact of Sea-Level Rise and Climate Change on Department of Defense Installations on Atolls in the Pacific Ocean
Capability Area: Variability/Cha nges	<ul> <li>Understanding Climate Variability and Change</li> <li>Research/Development</li> <li>Projections (modeling and downscaling)</li> </ul>
ECV	- Surface (e.g., temp, precip, wind) - Surface (e.g., SST, SSH, salinity, ocean color)
Timeframe	- Multi-decadal (scenarios)
Capability Area: Impacts/Adapt ations	<ul> <li>Understanding Climate Impacts and Informing Adaptation</li> <li>Climate Impacts</li> <li>Research/Development</li> <li>Projections (modeling and downscaling)</li> <li>Climate Adaptation</li> </ul>
	- Assessment and Evaluation
Sectors	<ul> <li>Public Health and Safety</li> <li>Fresh Water Resources</li> <li>Energy</li> <li>Transportation/Communication and Commerce</li> </ul>
Status	- Ongoing
Focus Area	<ul> <li>Fresh Water Resources and Drought</li> <li>Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience</li> </ul>
Regions	- Western North Pacific - RMI
Description	The goal of this effort is to (1) provide basic understanding and specific information on storm wave-induced inundation on Department of Defense installations on atolls in the Pacific Ocean, and (2) assess the resulting impact of sea-level rise and storm-wave inundation on infrastructure and freshwater availability under a variety of sea-level rise and climatic scenarios, based on historic information, sea-level rise predictions, and global climate model wind, wave, and precipitation output.
Lead Agencies	USGS/Pacific Coastal and Marine Science Center
Contacts	Curt Storlazzi, Research Oceanographer, cstorlazzi@usgs.gov

Required	DoD/SERDP
Resources	