



Projects and Activities Wed Mar 27 23:26:07 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/Changes	<ul style="list-style-type: none"> <li>- Understanding Climate Variability and Change</li> <li>- Research/Development</li> <li>- Projections (modeling and downscaling)</li> </ul>
ECV	<ul style="list-style-type: none"> <li>- Surface (e.g., temp, precip, wind)</li> <li>- Surface (e.g., SST, SSH, salinity, ocean color)</li> </ul>
Timeframe	<ul style="list-style-type: none"> <li>- Multi-decadal (scenarios)</li> </ul>
Capability Area: Impacts/Adaptations	<ul style="list-style-type: none"> <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> <li>- Assessment and Evaluation</li> </ul>
Sectors	<ul style="list-style-type: none"> <li>- Public Health and Safety</li> <li>- Fresh Water Resources</li> <li>- Energy</li> <li>- Transportation/Communication and Commerce</li> </ul>
Status	<ul style="list-style-type: none"> <li>- Ongoing</li> </ul>
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> </ul>
Regions	<ul style="list-style-type: none"> <li>- Western North Pacific</li> <li>- RMI</li> </ul>
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.
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Required Resources	DoD/SERDP
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