



Projects and Activities Wed Jul 18 10:05:01 HST 2018

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"> - Understanding Climate Variability and Change - Research/Development - Projections (modeling and downscaling)
ECV	<ul style="list-style-type: none"> - Surface (e.g., temp, precip, wind) - Surface (e.g., SST, SSH, salinity, ocean color)
Timeframe	<ul style="list-style-type: none"> - Multi-decadal (scenarios)
Capability Area: Impacts/Adaptations	<ul style="list-style-type: none"> - Understanding Climate Impacts and Informing Adaptation - Climate Impacts - Research/Development - Projections (modeling and downscaling) - Climate Adaptation - Assessment and Evaluation
Sectors	<ul style="list-style-type: none"> - Public Health and Safety - Fresh Water Resources - Energy - Transportation/Communication and Commerce
Status	<ul style="list-style-type: none"> - Ongoing
Focus Area	<ul style="list-style-type: none"> - Fresh Water Resources and Drought - Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience
Regions	<ul style="list-style-type: none"> - 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 Resources	DoD/SERDP
--------------------	-----------