<table>
<thead>
<tr>
<th>Name</th>
<th>The Impact of Sea-Level Rise and Climate Change on Department of Defense Installations on Atolls in the Pacific Ocean</th>
</tr>
</thead>
</table>
| Capability Area: Variability/Changes | - Understanding Climate Variability and Change  
- Research/Development  
- Projections (modeling and downscaling) |
| ECV | - Surface (e.g., temp, precip, wind)  
- Surface (e.g., SST, SSH, salinity, ocean color) |
| Timeframe | - Multi-decadal (scenarios) |
| Capability Area: Impacts/Adaptations | - Understanding Climate Impacts and Informing Adaptation  
- Climate Impacts  
- Research/Development  
- Projections (modeling and downscaling)  
- Climate Adaptation  
- Assessment and Evaluation |
| Sectors | - Public Health and Safety  
- Fresh Water Resources  
- Energy  
- Transportation/Communication and Commerce |
| Status | - Ongoing |
| Focus Area | - Fresh Water Resources and Drought  
- Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience |
| 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 |
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| Required Resources | DoD/SERDP |