Data and Products Fri Mar 29 00:22:39 HST 2024

Name	Sea Level Rise and Coastal Flooding Impacts Viewer
Capability Area	- Understanding Climate Variability and Change - Understanding Climate Impacts and Informing Adaptation
Focus Area	- Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience
Regions	- Central North Pacific - State Of Hawaii - Western North Pacific - CNMI - Guam
Products/Physical	- Products - Physical - Outloooks (monthly to annual) - Impacts - Flooding/Inundation - Spatial Scale - Location/Site - Time Scale - Future - Methodology - Model/Statistical - Model/Dynamical - Applications, including Visualization and Decision Support Tools - Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)
Sectors	- Public Health and Safety - Energy - Community Planning and Development - Social and Cultural Resources - Recreation and Tourism - Ecosystems

Description	The Sea Level Rise and Coastal Flooding Impacts Viewer: 1) Displays potential future sea levels; 2) Provides simulations of sea level rise at local landmarks; 3) Communicates the spatial uncertainty of mapped sea levels; 4) Models potential marsh migration due to sea level rise; 5) Overlays social and economic data onto potential sea level rise; and 6) Examines how tidal flooding will become more frequent with sea level rise. Being able to visualize potential impacts from sea level rise is a powerful teaching and planning tool, and the Sea Level Rise Viewer brings this capability to coastal communities. Work done as part of NOAA Digital Coast. Mapping completed for Pacific Islands. Working on pilot for flood frequency in Guam.
Url	www.csc.noaa.gov/slr
Lead Agencies	NOAA/CSC/OCRM, NOAA/CO-OPS, NOAA/NGS, U of South Carolina, U of Hawaii, Dewberry, U.S. Bureau of Labor Statistics
Contacts	Doug Marcy, doug.marcy@noaa.gov