Data and Products Thu Mar 28 22:02:06 HST 2024

Name	Seasonal Water Level and Storminess Outlook for the Pacific Islands
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 - Western North Pacific - South Pacific
Products/Physical	- Products - Physical - Outloooks (monthly to annual) - Impacts - Flooding/Inundation - Spatial Scale - Location/Site - Time Scale - Future - Methodology - Obs/In-situ - Obs/Remote - Model/Statistical - Applications, including Visualization and Decision Support Tools - Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)
Sectors	- Public Health and Safety - Fresh Water Resources - Energy - Transportation/Communication and Commerce - Community Planning and Development - Social and Cultural Resources - Agriculture and Fisheries - Recreation and Tourism - Ecosystems

Description	The Seasonal Water Level and Storminess Outlook proof-of-concept (POC) product for the Pacific Islands is specifically tailored for coastal flooding/erosion risk warning. The POC product aims to project the potential for elevated water levels at the shoreline due to: 1) regional changes in mean sea level associated with ENSO and other modes of natural variability; 2) tropical and extra-tropical storms; and 3) unusually high tides. The POC product responds to a need from community planners, resource managers, and other decision-makers for information about the potential for coastal flooding and erosion to threaten coastal structures and property, groundwater reservoirs, harbor operations, waste water systems, sandy beaches, coral reef ecosystems, and other social and economic concerns. Currently, information of this type is limited in scope and not well integrated. The POC constitutes a path-finding activity directed towards aligning complementary interests and activities, sponsoring joint projects, and leveraging funding as a way to minimize duplication of effort and maximize the use of agency resources in the Pacific. It represents a center of action within a broader effort to support regional collaboration in the areas of data and observations, applied research and analysis, product development, and outreach and training and demonstrate the value of regionally integrated water level-related products and services.
Lead Agencies	NOAA NESDIS/NCDC, NOS/CO-OPS and NWS/PEAC, Australian BOM and CSIRO, New Zealand NIWA and MetService, SPC/SOPAC
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