Challenges and Opportunities for Marine and Great Lakes Laboratories

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Infrastructure Investment and Jobs Act (IIJA): $2.96B

$492M coastal & inland flood mapping, forecasting, modeling
$50M wildfire prediction, modeling forecasting
$50M wildfire observation equipment and instruments
$1M + $25M soil moisture and snowpack research
$80M supercomputing for weather, climate forecasting
$56M regional ocean partnerships
$150M observing systems for coastal, ocean, Great Lakes environment
Infrastructure Investment and Jobs Act (IIJA): $2.96B

$492M National Fish & Wildlife Foundation Resilience Fund
$207M habitat restoration through state Coastal Zone Programs
$77M habitat restoration through National Estuarine Research Reserves
$491M habitat restoration
$400M enhancing fish passage
$200M marine debris prevention, removal
$172M Pacific coast salmon recovery
$20M ESA, MMPA, EFH consultation, permitting

$2.06B for Restoration & Resilience Grants
NOAA’s Priorities

1. Build a Climate-Ready Nation
2. Make Equity Central to NOAA’s Mission
3. Foster the Information-Based Blue Economy
1. Climate-Ready Nation
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Currently, a lack of available data on the performance of sediment re-use projects like Swan Island is a barrier to widespread implementation.
1. Climate-Ready Nation

Sediment management effects on NNBF and flood vulnerability in CA.

Thin layer application - enhancing elevation capital. Freeman Creek, NC
2. Equity Central to Mission

Metrics to Prioritize Adaptation

Recommendations on Living Shoreline Design
2. Equity Central to Mission

East End of St. Thomas, USVI

23 types of human use are mapped. Areas of overlap of dominant uses are red.
3. Info-Based Blue Economy

North Carolina Wind Energy Area

NY Bight Wind Energy Planning
3. Info-Based Blue Economy

Existing Ocean Use

Aquaculture Potential
3. Info-Based Blue Economy