

NOAA's National Ocean Service

*Positioning America for the Future:
Coastal Communities, Economies & Ecosystems*

IOOS: Foundational Data for Coastal Resilience

*IOOS Federal Advisory Council
April 29, 2015*



Overview

- Why the focus on resilience?
- Coastal intelligence: Starting point for resilience
- Challenges in communicating
- Committee's priority areas



An aerial photograph showing a long, straight road stretching from the foreground towards the horizon. The road is flanked by areas of significant destruction, with debris, damaged buildings, and large pools of water. The ocean is visible on the right side of the road, with waves breaking against a low wall or barrier. The sky is clear and blue.

The question of our time is not IF the next big event will happen, but WHEN, and WHAT blow it will deliver to our society and economy.

Dr. Kathryn Sullivan

Coastal Resilience



RESILIENCE MEANS ***BOUNCING BACK***

BEFORE THE STORM



DURING THE STORM



AFTER THE STORM



BOUNCING BACK



Coastal Intelligence



COASTAL INTELLIGENCE

Helping decision makers along the coast make the best choices for their communities.

satellite
communication



airborne LIDAR
aerial imagery
airborne gravimeter



decision support
tools



air gap sensor

PORTS®
visibility
sensor

meteorological
station

high
frequency
radar



continuously operating
reference station

water level gauge

water
quality
monitoring

buoys:
ocean chemistry
wave sensors
water temperature gauge
meteorological sensors
harmful algal bloom monitoring

single beam sonar
multibeam sonar

ATON mounted acoustic doppler current profiler
bottom mounted acoustic doppler current profiler

glider or autonomous
underwater vehicle

Coastal Intelligence: The Starting Point for Resilience



Welcome

The United States Integrated Ocean Observing System (U.S. IOOS) is a vital tool for tracking, predicting, managing, and adapting to changes in our ocean, coastal and Great Lakes environment. U.S. IOOS delivers the data and information needed, so that decision-makers can take action to improve safety, enhance the economy, and protect the environment. Explore the interactive features of the new IOOS Data Catalog.



Gliders



13360 Datasets | 4874 Services

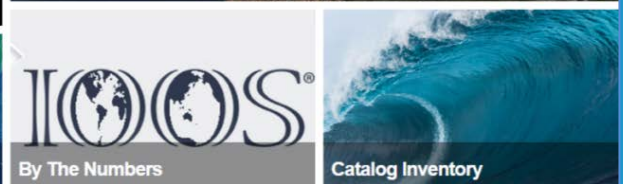
Catalog Map



Featured Maps

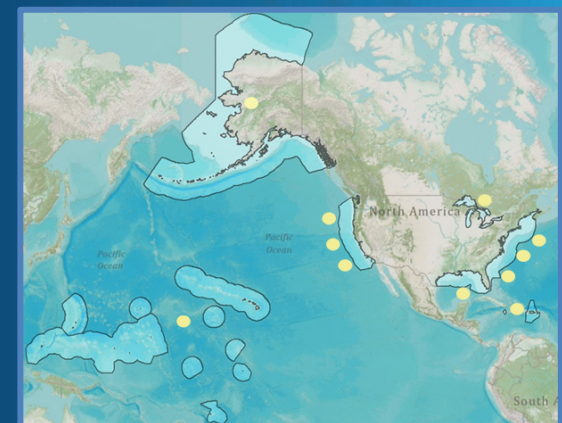


Download Help

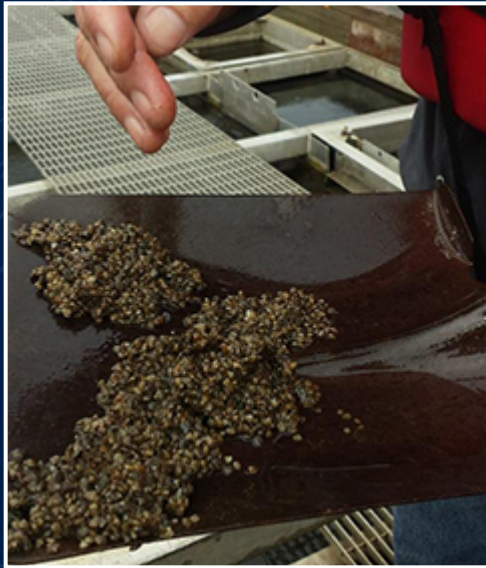


By The Numbers

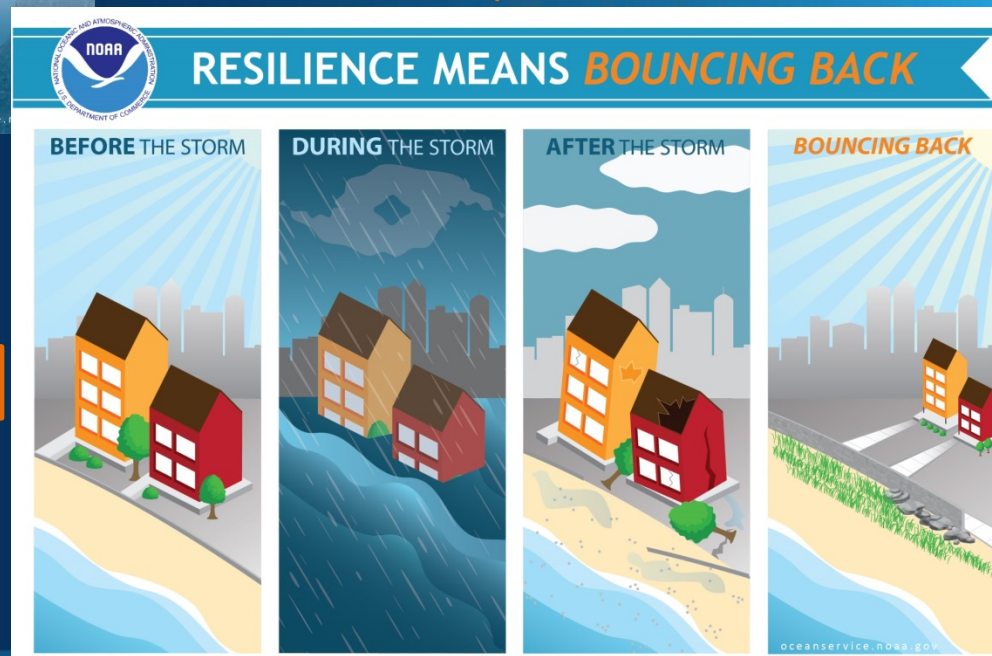
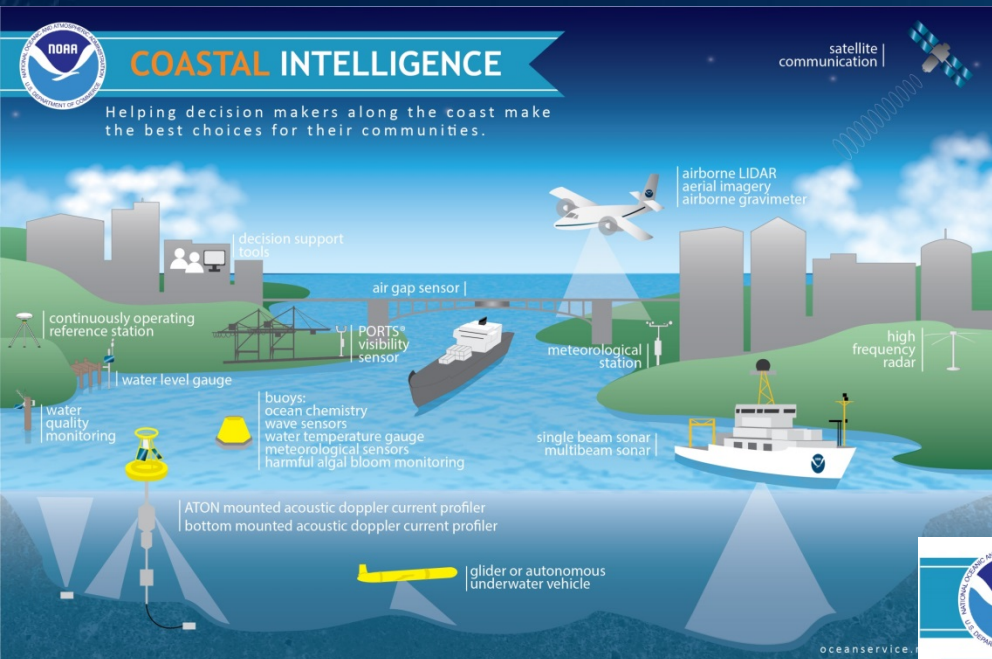
Catalog Inventory



IOOS[®]: Critical for Coastal Resilience

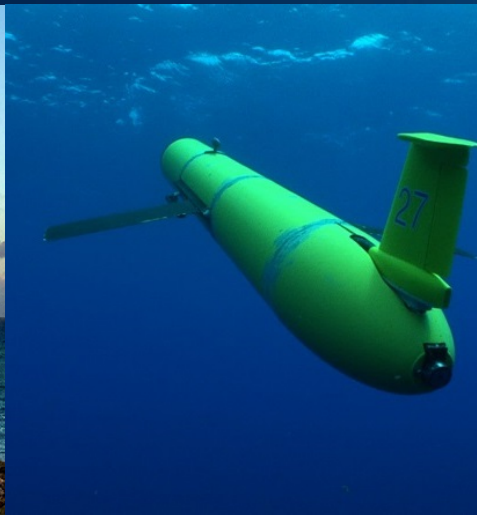


Challenges



Priority Areas

- Raise visibility and support
- Essential need for IOOS to support resilient solutions
- Facilitate ICOOS Act Reauthorization
- Quality management indicators
- Post-certification challenges
- Improving industry integration



Questions

