

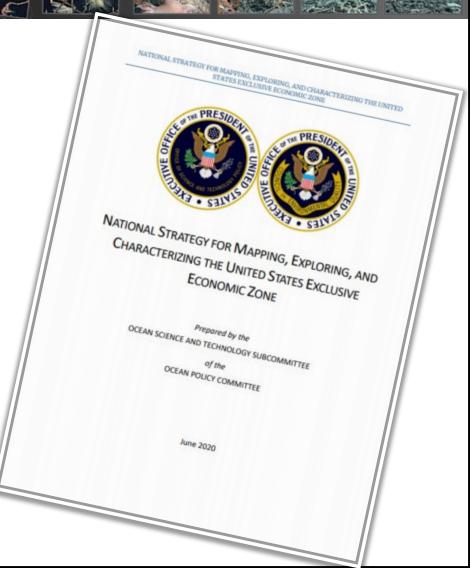
### **Offshore Alaska Campaign Mapping**

Meredith Westington NOAA Integrated Ocean and Coastal Mapping

### National Strategy

"Mapping, exploring, and characterizing the ocean and coastal shoreline advances scientific understanding, safeguards the Nation's economic prosperity, and promotes the health and security of our people. This knowledge is essential to advancing America's understanding of the marine environment and addressing sustainable ocean resource management."

-- National Ocean Mapping, Exploring, and Characterization of the U.S. EEZ (NOMEC)



## Goals of the NOMEC Strategy

**GOALS** 

Coordinate Interagency Efforts and Resources to Map, Explore, and Characterize the United States EEZ

<sup>2</sup> Map the United States EEZ

Objective 2.2. Coordinate and Execute **Campaigns** to Map the U.S. EEZ

Explore and Characterize Priority Areas of the United States EEZ

Develop and Mature New and Emerging Science and Technologies to Map, Explore, and Characterize the United States EEZ

5 B St

Build Public and Private Partnerships to Map, Explore, and Characterize the United States EEZ

### What is Ocean Mapping?

**Ocean mapping** provides comprehensive data and information needed to understand seafloor characteristics such as depth, topography, bottom type, sediment composition and distribution, and underlying geologic structure.



### **Standard Ocean Mapping Protocol**

- Protocol to include specs for
  - Bathymetry
  - Backscatter
  - Water Column •
  - Side Scan Sonar
  - Sub-bottom •
  - Magnetometer •
- Make the Most of Every Survey Mile
  - Guide data acquisitions and processing
  - Encourage widest access to data •
  - Get data into public archives
  - Use national data standards

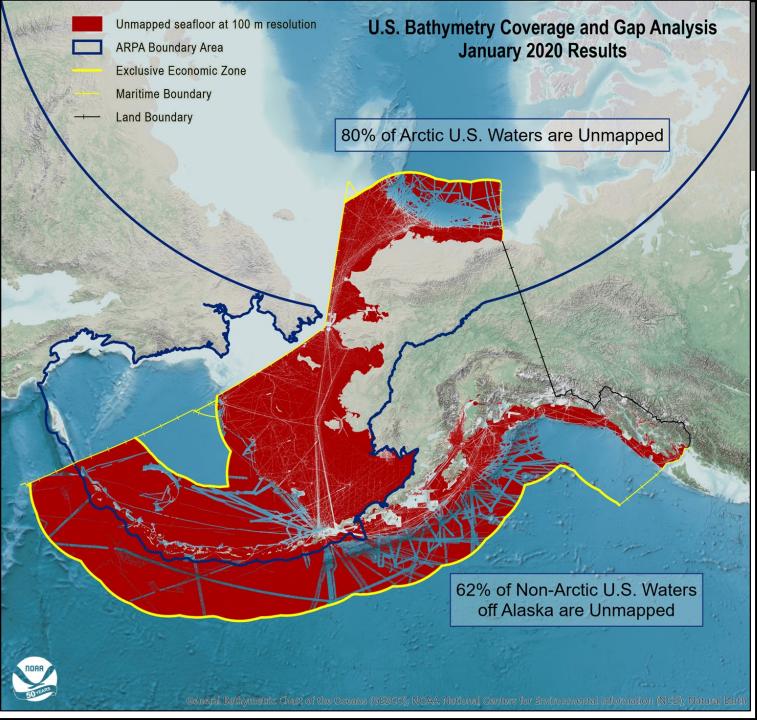


## **Bathymetry Gaps**

#### **Criteria for Minimally Mapped**

- Area must be surveyed after 1960
- Each 100 m cell must be supported by at least 1 sounding
- Publicly accessible bathymetry at NOAA NCEI and OCM

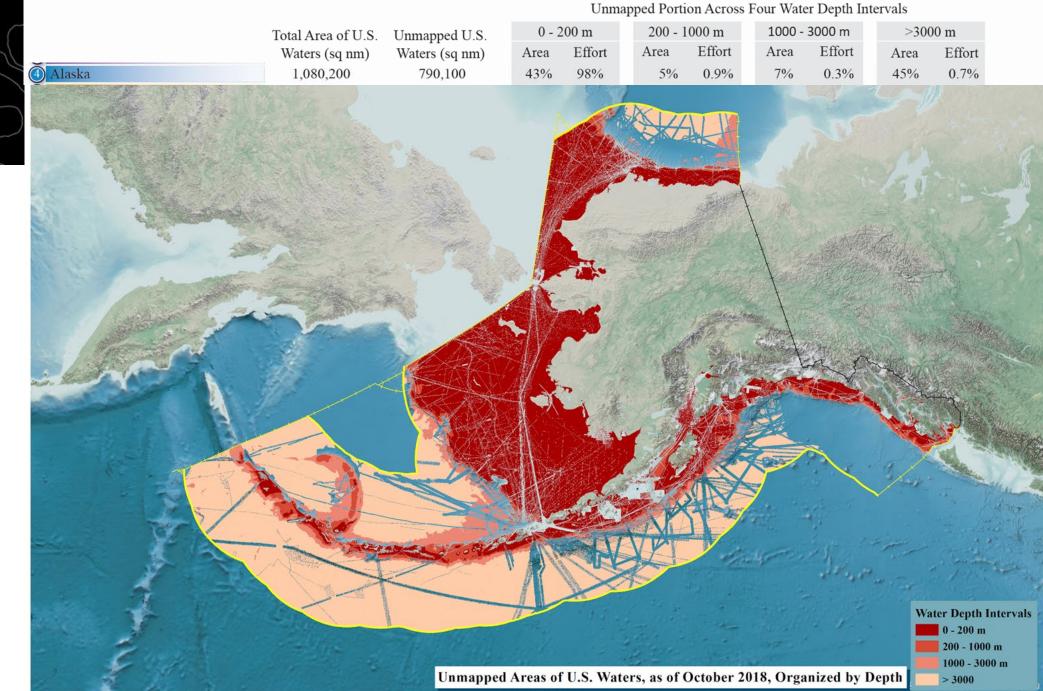
Based on U.S. Bathymetry Gap Analysis: https://iocm.noaa.gov/seabed-2030-bathymetry.html



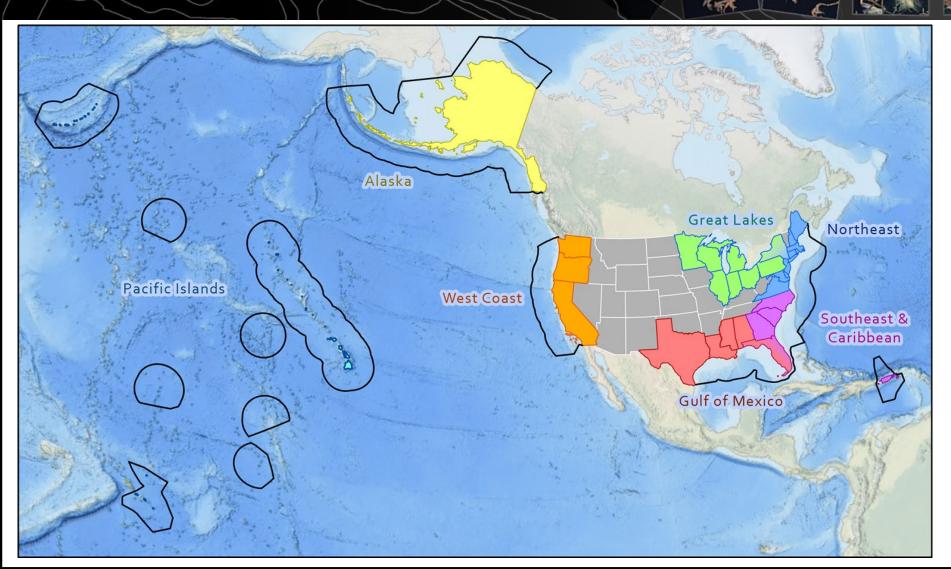
# Level of Effort

Different mapping strategies may be needed!

We are acquiring ~10% of what we need to achieve annually to reach our goals



# What is Campaign Mapping?



#### **Measure of Success**

Measurable annual progress on U.S. ocean and coastal mapping data acquisition using all available platforms to maximum extent through coordinated mapping campaigns responsive to identified priorities.

### **Key Steps to Progress**

- Share all available data with centralized repositories, like NCEI
- Participate in mapping coordination activities
- Innovate to increase survey efficiency



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