

Gap Analysis for US Seabed 2030 Mapping

USCHC 26 March 2018



Identify US waters that have been "mapped"

- Use Seabed 2030 100-m resolution goal
- Use all soundings since 1960 archived at NCEI
 Irrespective of source or perceived quality
- Basic criterion: At least 1 sounding in the cell
- Enhanced criterion: 3 or more soundings in the cell



Bathymetric Data Layers



Multibeam bathymetry

Paths to raw data files

Single beam bathymetry

🞽 XYZ (>1960)

NOS Hydrography

🖉 XYZ (>1960)

NOS Hydrography (BAGs)

8 m coverage footprints (SHP)

Extended continental shelf grids

100 m coverage footprints (SHP)





Bathymetric LiDAR



10 m coverage footprints (SHP)

Supersession rules eliminate duplicate soundings in results



Analysis Framework





Coverage Display—US Atlantic





South Carolina Coastal Shelf





Alaska





US Arctic





US Waters that have been "mapped"



Zones	% "Mapped"	Area "mapped" (sq nm) with modern surveys (>1960)	Total Area (sq nm)
EEZ	42%	1,442,000	3,438,000
"coastal waters"*	31%	48,100	154,000
Total U.S. waters*	41%	1,490,100	3,592,000

* Includes Great Lakes

