

Office of Coast Survey

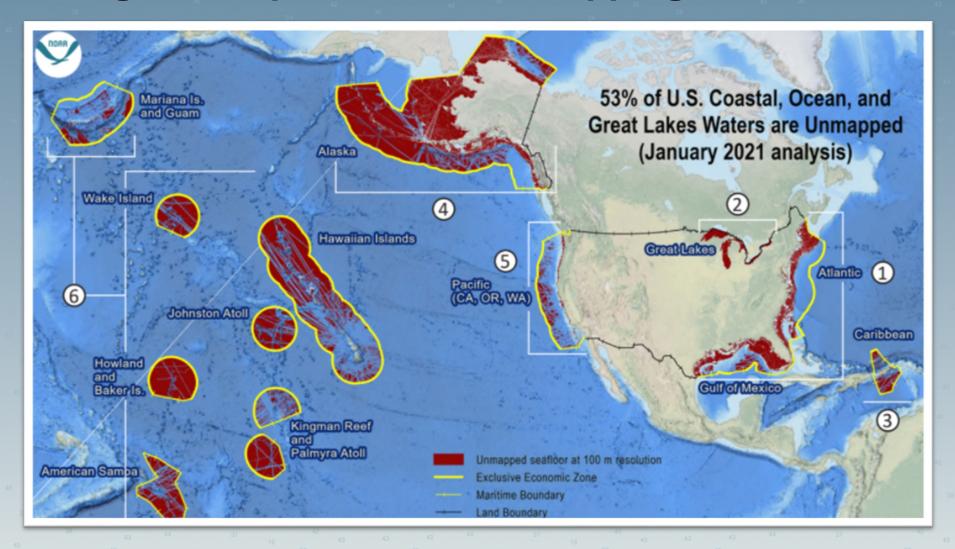
CAPT Rick Brennan March 3, 2021

NOMEC Implementation at Coast Survey

NOMEC Objective

Coast Survey Ocean Mapping measurable strategy	Establish a Standard Ocean Mapping Protocol	Coordinate and Execute Campaigns to	2.3. Make Mapping Data Usable and	Development,	Objective 4.3. Support Partnerships with Orgs that are Promoting, Investing in, or Developing Ocean	Opportunities for Non-	Objective 5.2. Foster Cross-Sector Engagement	
2.1.1 – Work with IWG-OCM to develop ocean mapping and characterizations standards	✓	31 16 38	2 43 43 42	49 44 42 44 55	31 42 16 38 36 49	43 43 42	44 44	31 36
2.1.2 - Develop annual mapping priorities with key partners	42	✓	31		24 30 10 A3 44	36	✓	43
2.1.3 - Map at least 20,000 square nautical miles annually with partners		✓			✓			
2.2.1 – Provide funding to address mapping gaps		✓						
2.2.2 – Annually update and share the Hydrographic Surveys Specifications and Deliverables	✓	- 12	58	10 10		42		36
2.2.3 – Provide hydrographic training to non-NOAA partners	42 43 43	43 44 42 36	44 38 36	16 43 38 46	✓	√	45 4	10
2.2.4 – Increase mapping contributions from external partners	31 44 38 36	42 43	43 43	44 38 36	✓	✓	✓	✓
2.3.2 – Pilot project to operationalize uncrewed system swarm for force-multiplied surveys	38 44	31 16	2 43 43	24 4 38	42 37 31 42 16 43	36 24 43 43	√	42 31
2.3.3 – Use airborne systems and satellite derived bathymetry to increase nearshore data	36 38	24 43 44	38 49	✓	36 46 46 48 24 38 43 44	31	5 37 36	30 42
2.3.4 – Apply innovative research and techniques to reduce ping to chart time	38 46	42 36	44 30 30	20 √ 40 0	36 44 38	37 36 38 42 3	37 36	37 36

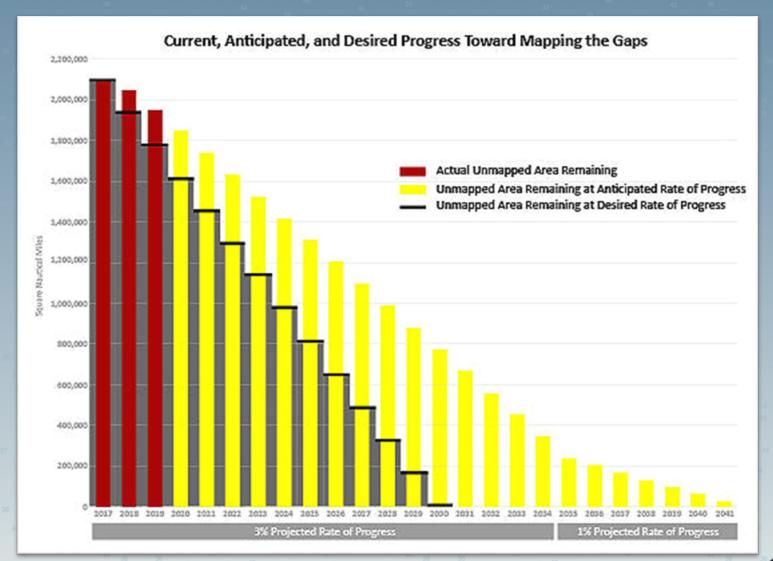
Progress Report on Ocean Mapping



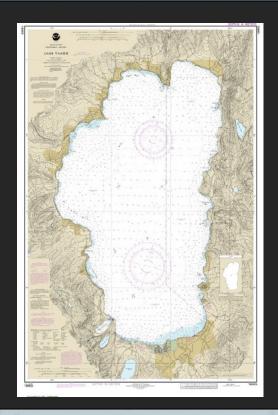
Progress Report on Ocean Mapping

U.S. waters	Total Area = 3,592,000 square nautical miles (snm)
	53% 54% 2019 57% 2018 59% 2017
1. Atlantic and Gulf of Mexico	Total Area = 472,200 snm
41%	3% 2019 48% 2018 49% 2017
2. Great Lakes	Total Area = 46,600 snm
	95% 2018 96% 2017 2019 and 2020
3. Caribbean	Total Area = 61,600 snm
	3% 2020 44% 2018 45% 2017
4. Alaska	Total Area = 1,080,200 snm
	72% 2019 and 2020 73% 2018 74% 2017
5. Pacific (CA, OR, WA)	Total Area = 239,700 snm
22% 2019 29% 2017 and 2018	
6. Pacific Remote Islands & Hawaii	Total Area = 1,691,700 snm
4	9% 50% 2019 53% 2018 155% 2017

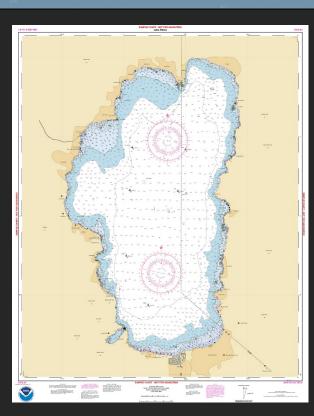
Progress Report on Ocean Mapping



Farewell to Paper Nautical Charts





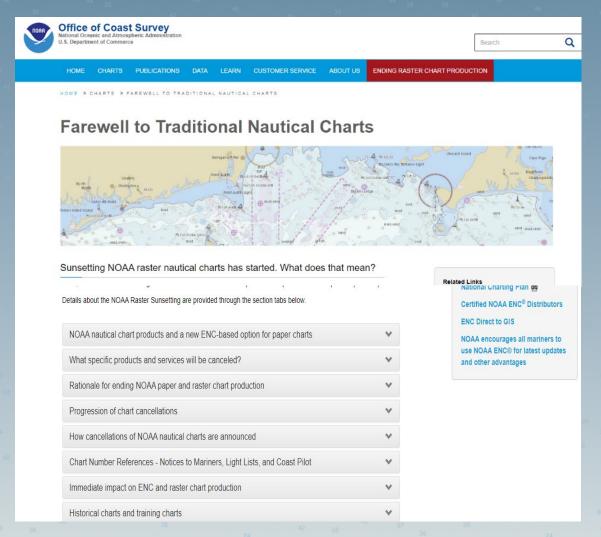


Traditional Paper Chart

NOAA ENC®

NOAA Custom Chart

Farewell to Paper Nautical Charts



nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html

Precision Marine Navigation

Data Gateway

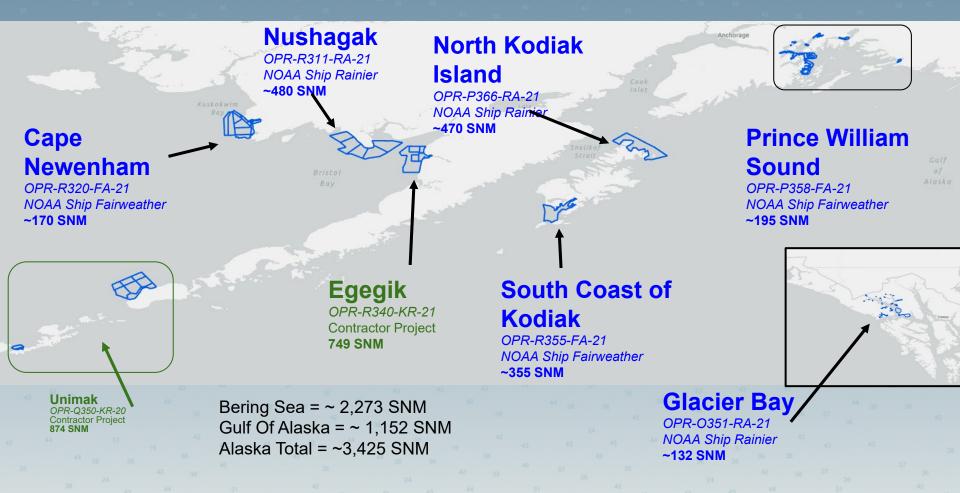


Data Dashboard



Hydrographic Field Season 2021

Alaska Survey Projects



Hydrographic Field Season 2021

Great Lakes and Gulf of Mexico Survey Projects

Whitefish Bay, MI OPR-Z394-KR-21 Contractor Project ~344 SNM



Pascagoula, MI
OPR-J315-KR-21
Contractor Project
189 SNM



Freeport, TX
OPR-K380-KR-21
Contractor Project
254 SNM

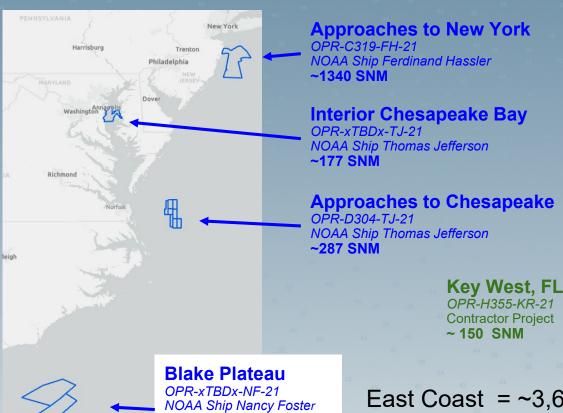
Great Lakes = ~ 670 SNM

Gulf of Mexico = ~443 SNM

Hydrographic Field Season 2021

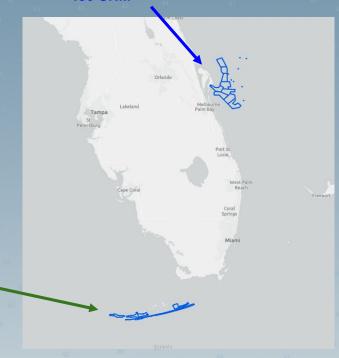
East Coast and Florida Projects

~1850 SNM



Cape Canaveral, FL
OPR-xH321-FH-21

NOAA Ship Ferdinand Hassler
~430 SNM



East Coast = ~3,654 SNM

Florida = ~ 580 SNM



Questions