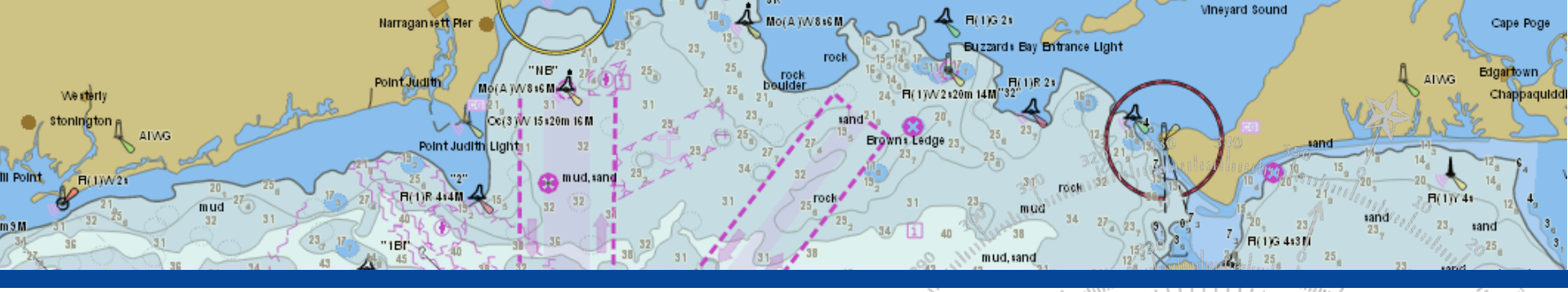


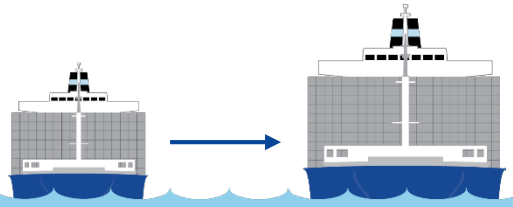
NATIONAL CHARTING PLAN

A strategy to transform nautical charting

Office of Coast Survey
National Oceanic and Atmospheric Administration

A Changing World

Ships are growing, requirements are changing, technology is advancing

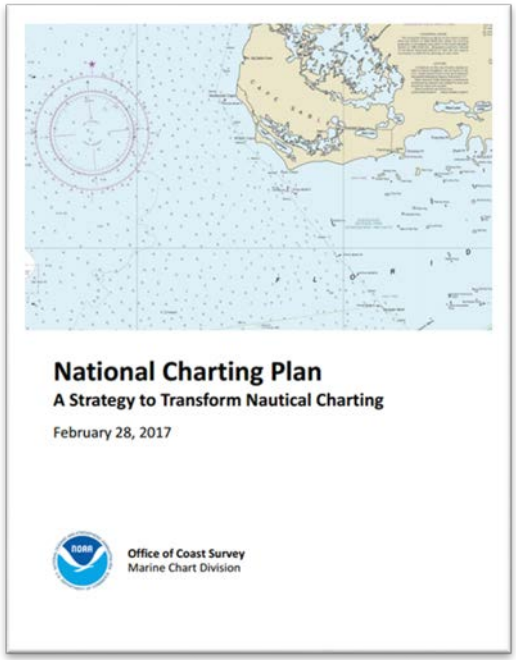


Container ship size has increased four-fold in 30 years.

Use of electronic charts and ECDIS will soon be mandatory for all large commercial vessels.

Electronic chart display use is rising among recreational boaters.

National Charting Plan



Purpose

Improve NOAA nautical chart coverage, products, and distribution

Provide feedback by June 1, 2017

www.nauticalcharts.noaa.gov/staff/news/2017/nationalchartingplan.html

Office of Coast Survey
National Oceanic and Atmospheric Administration

Transforming nautical charting

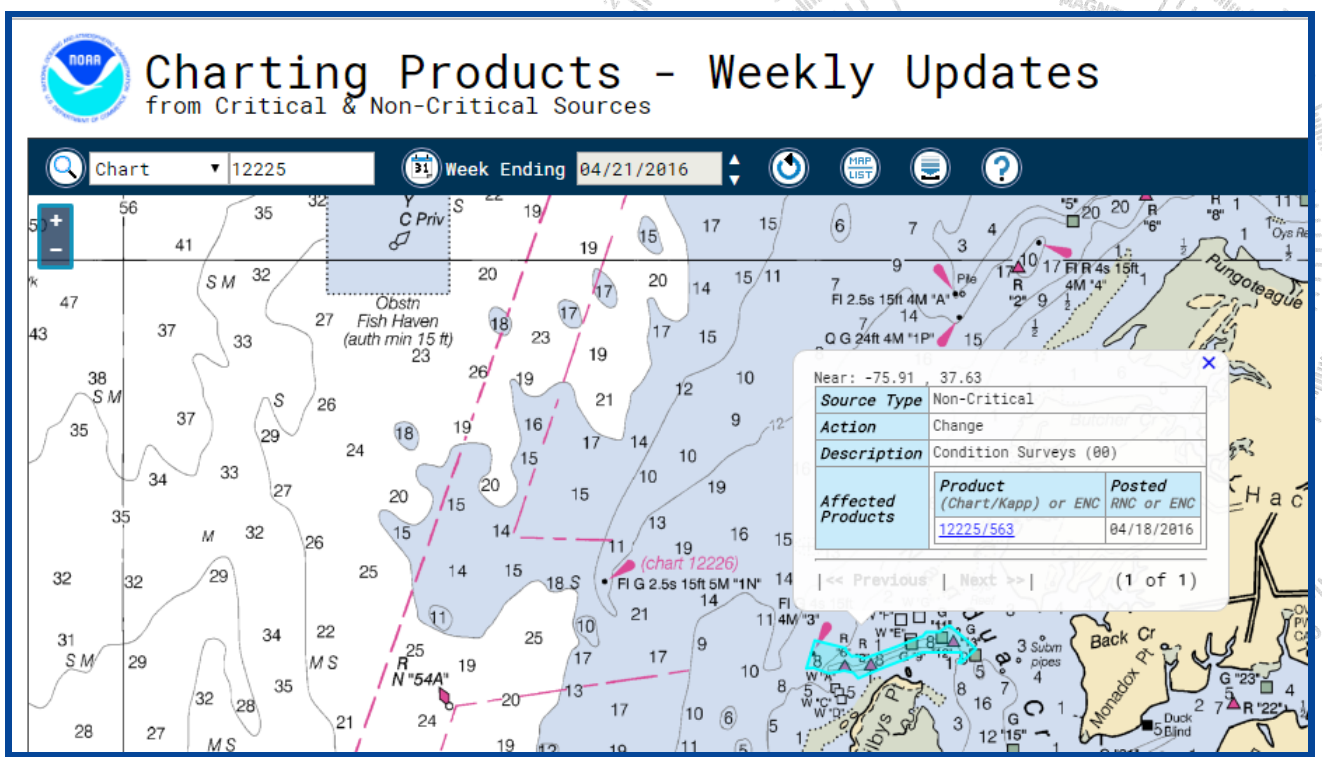
Actions that will improve charting and marine navigation:

- Improving Chart Updates
- Improving Chart Content
- Improving Chart Schemes
- Improving Chart Production Efficiency
- MSDI and Open Data

Improving Chart Updates

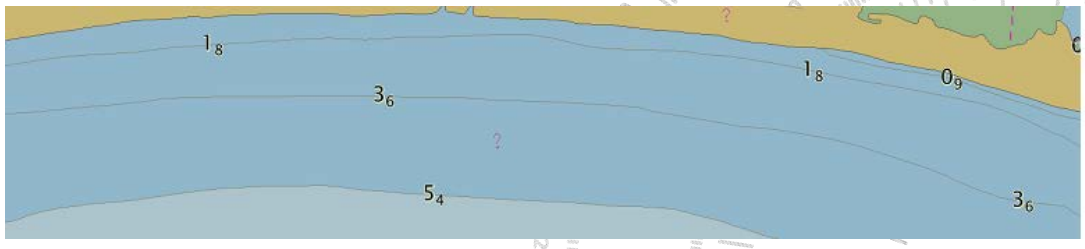
new

Improve chart update information



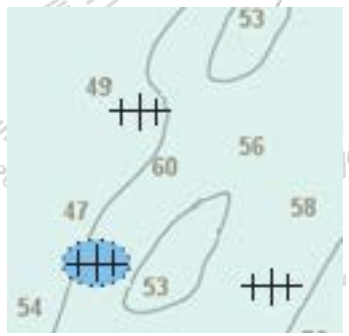
Improving Chart Content

Convert to metric



Reduce unwarranted alarms & isolated danger symbolization

ECDIS display of wrecks with an "isolated danger" symbol

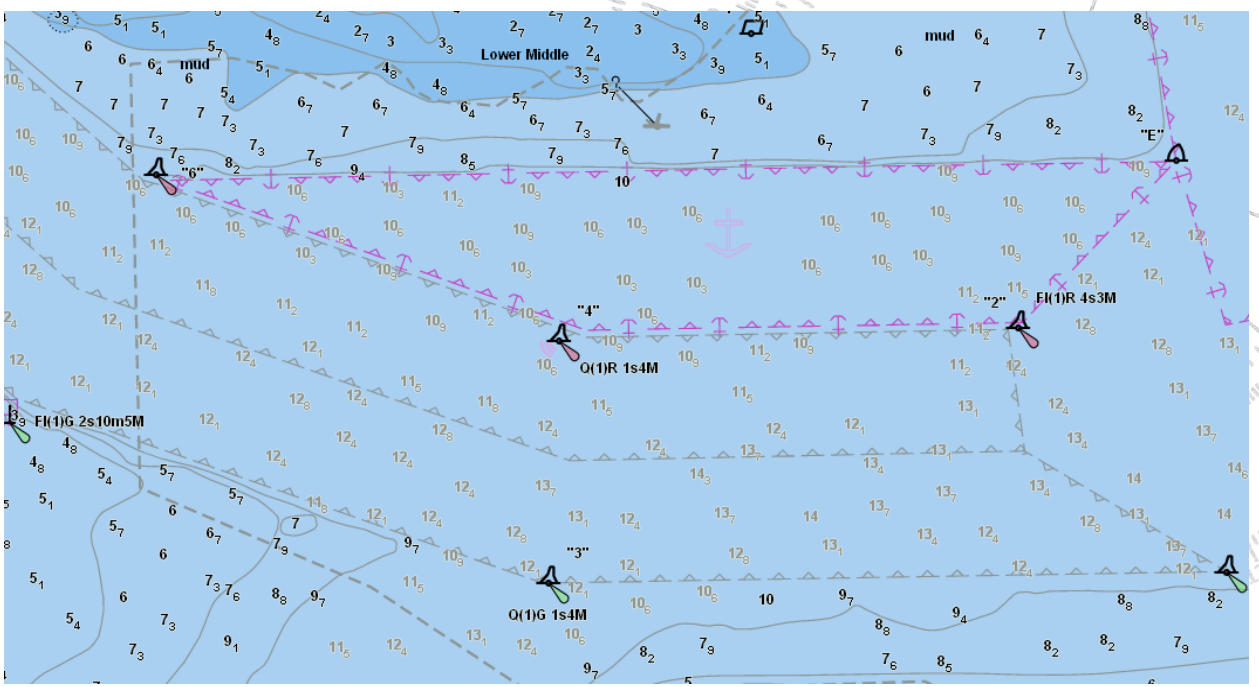


“Normal” ECDIS display of the same two "non-dangerous" and one "dangerous" wrecks

Improving Chart Content

Provide timelier data

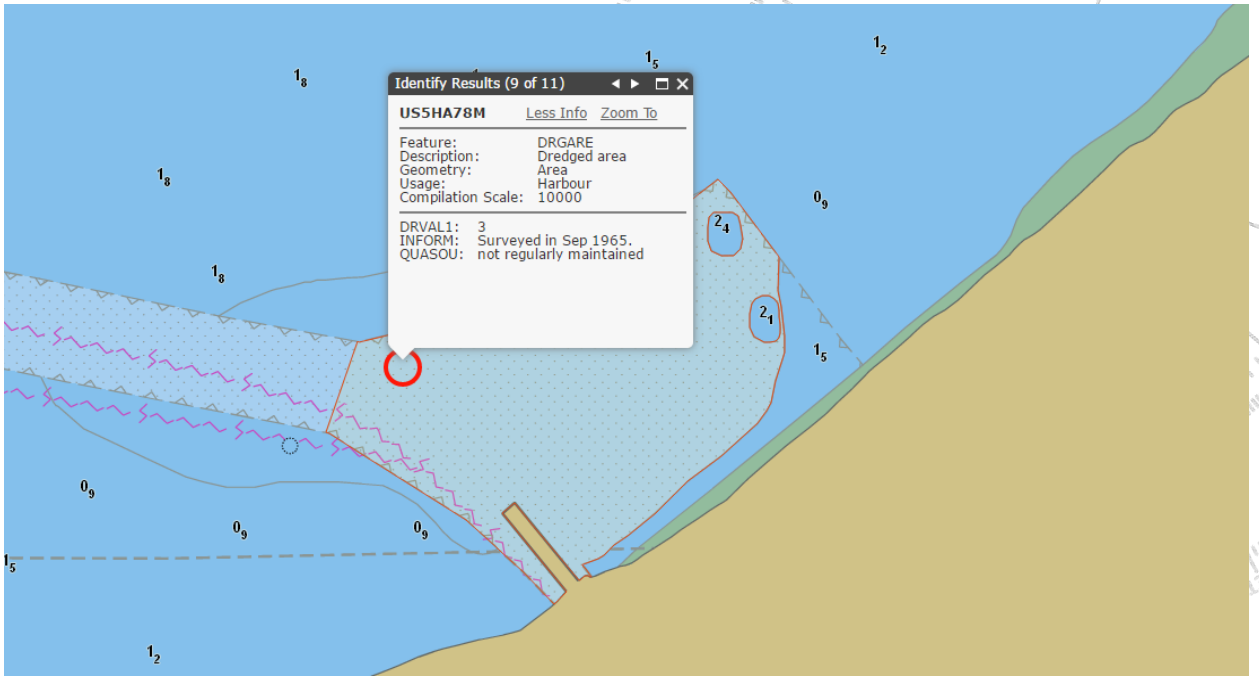
Standardization of USACE data formats



Improving Chart Content

Provide timelier data

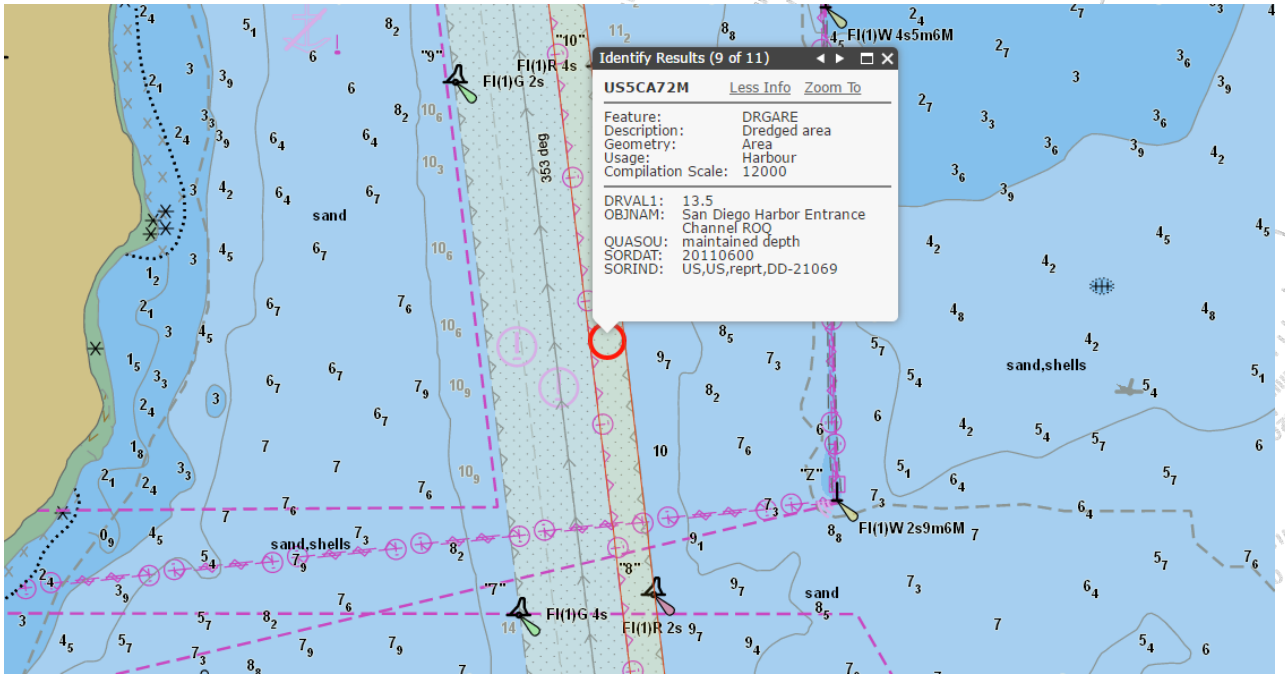
Standardization of USACE data formats



Improving Chart Content

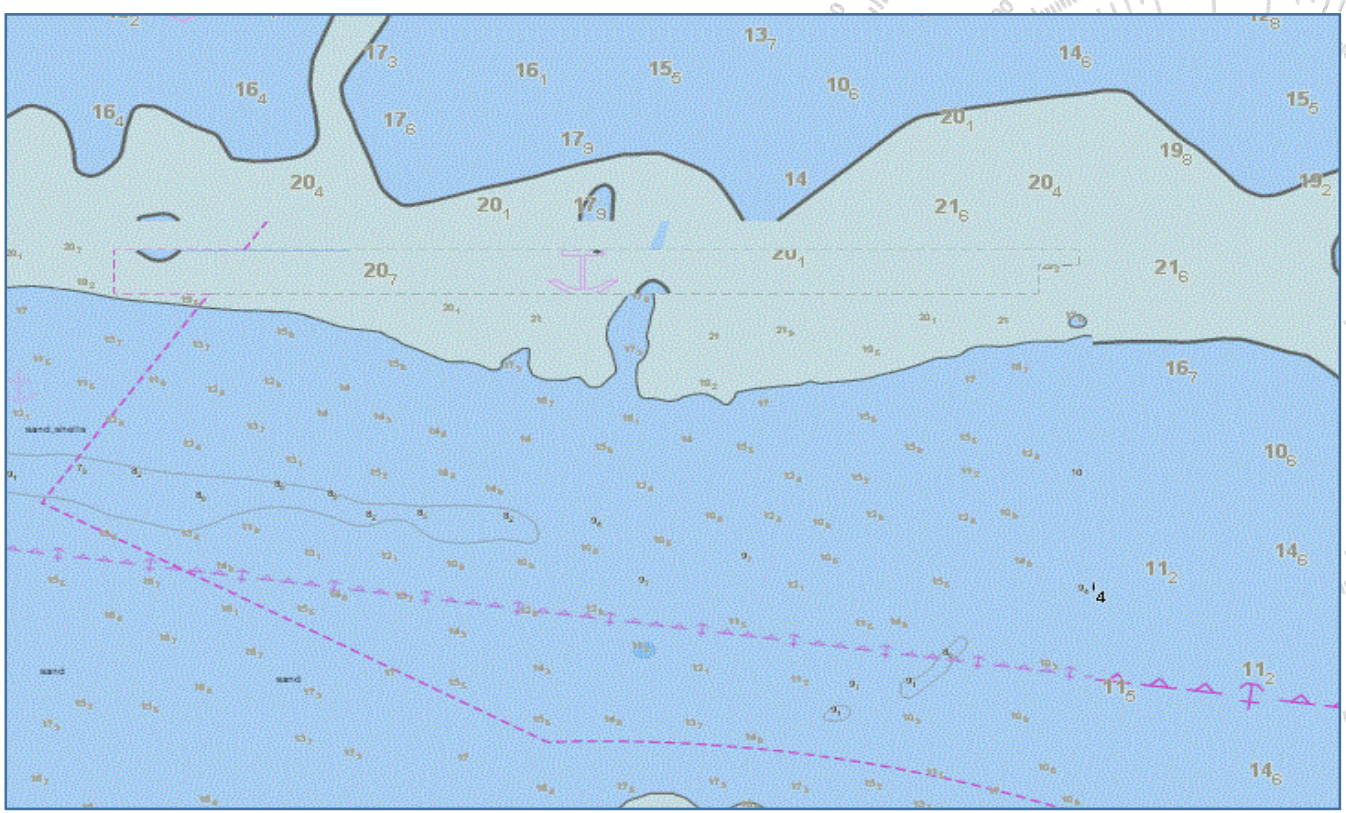
Provide timelier data

Standardization of USACE data formats



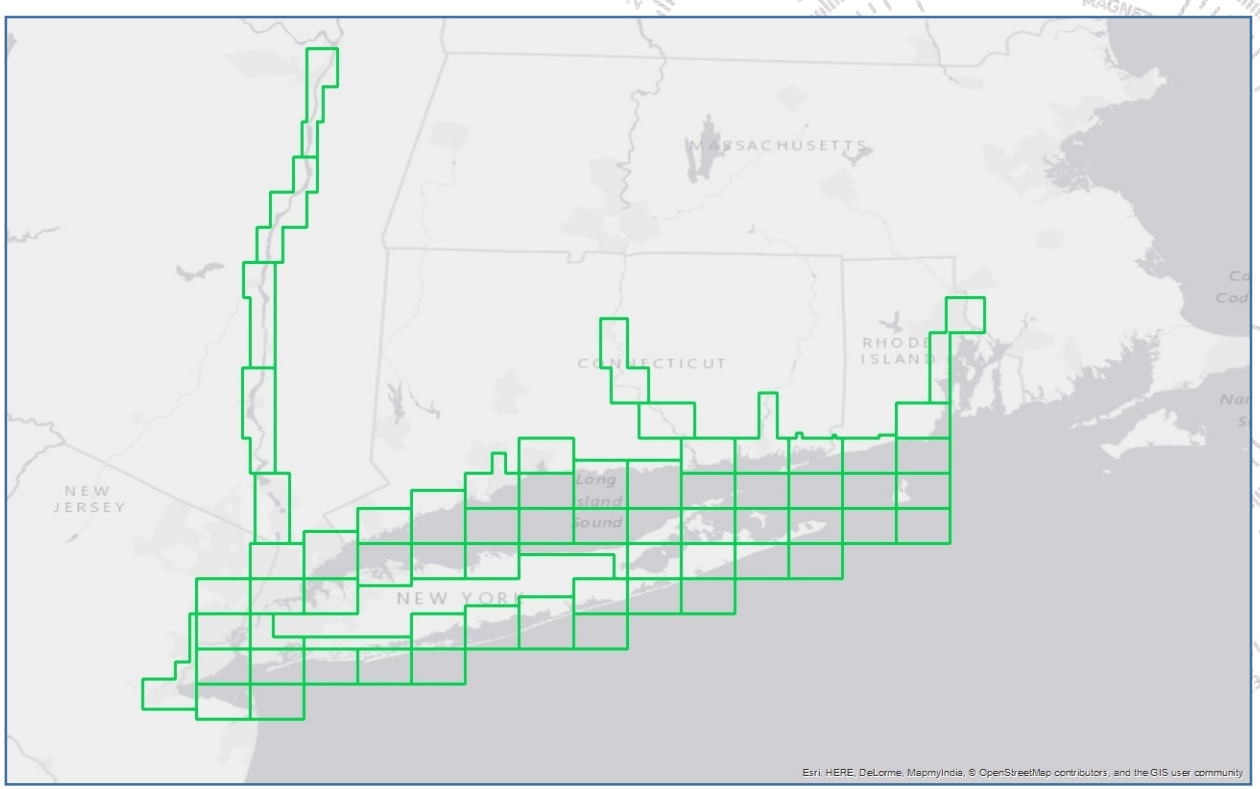
Improving Chart Content

Data Consistency and general ENC clean-up



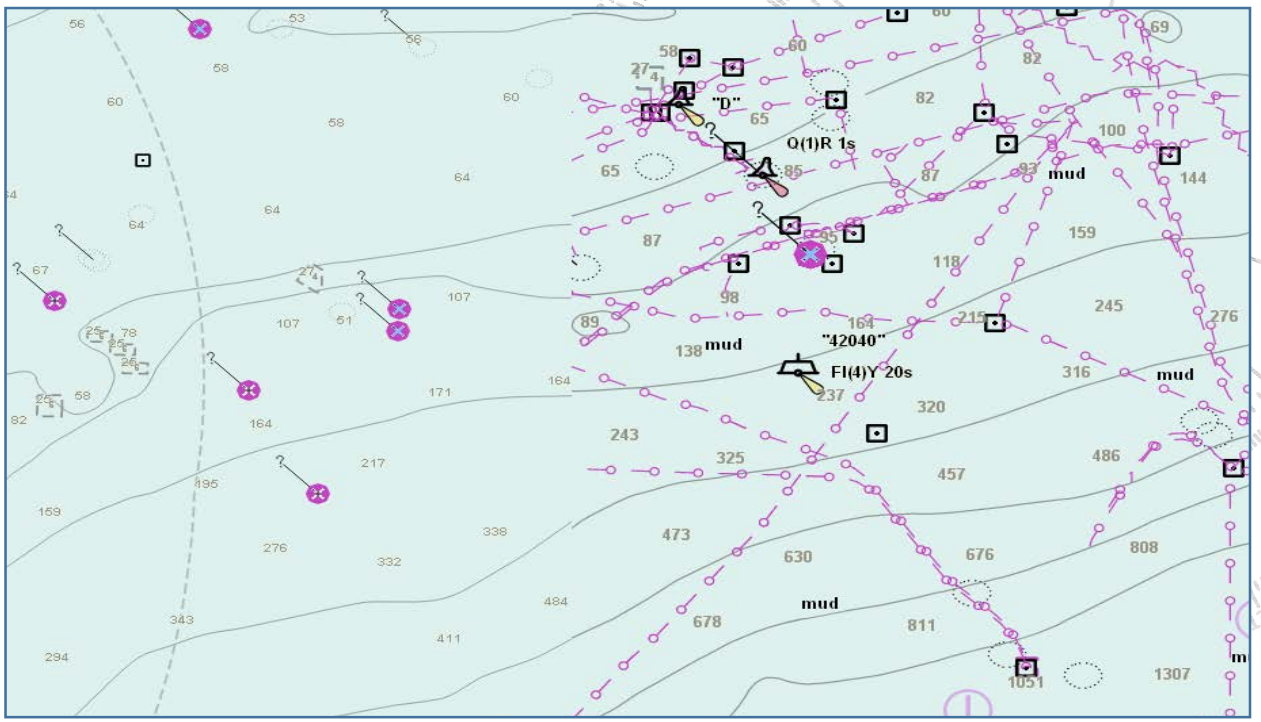
Improving Chart Schemes

Create an orderly layout for ENCs



Improving Chart Schemes

Standardize Scales



Improving Chart Schemes

Improve chart coverage

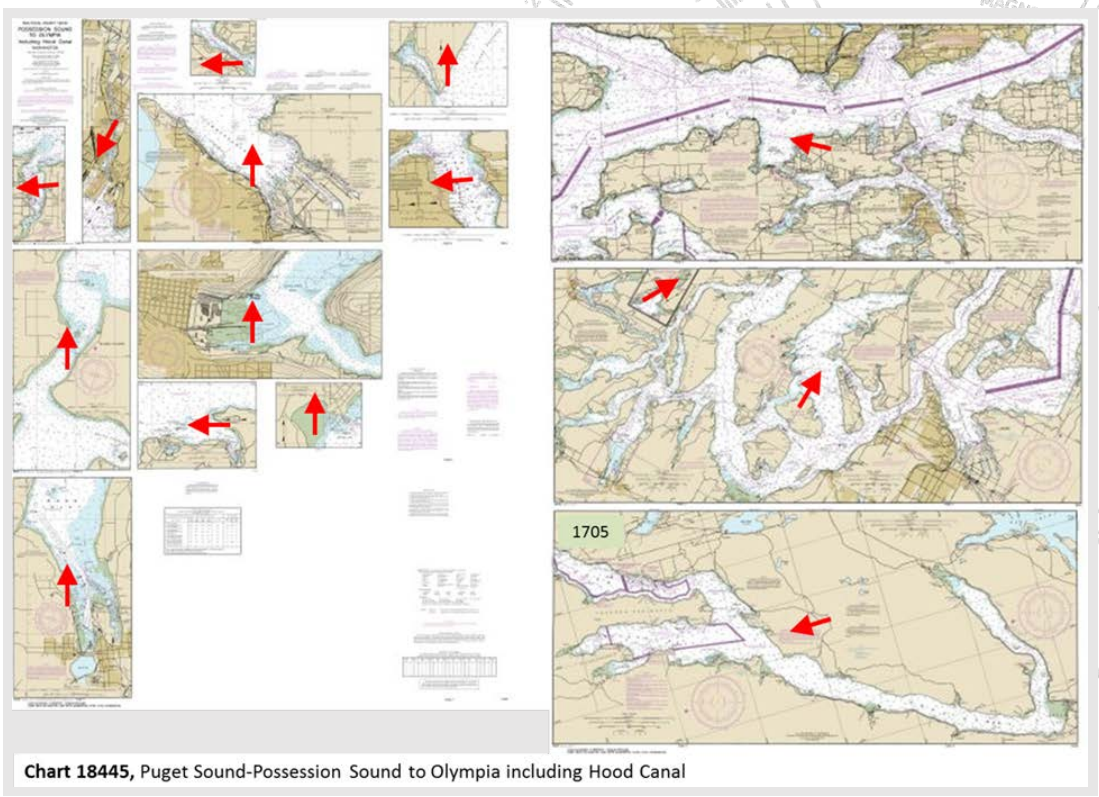


Chart 18445, Puget Sound-Possession Sound to Olympia including Hood Canal

Improving Chart Production Efficiency

Increase efficiency

Direct input of USCG light list data into production

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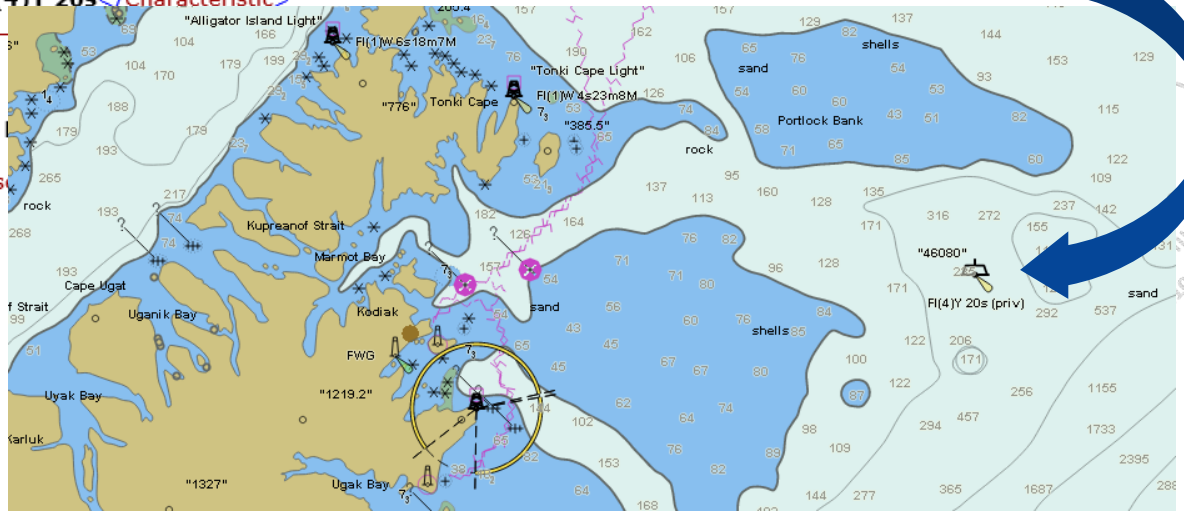


Marine Spatial Data Infrastructure

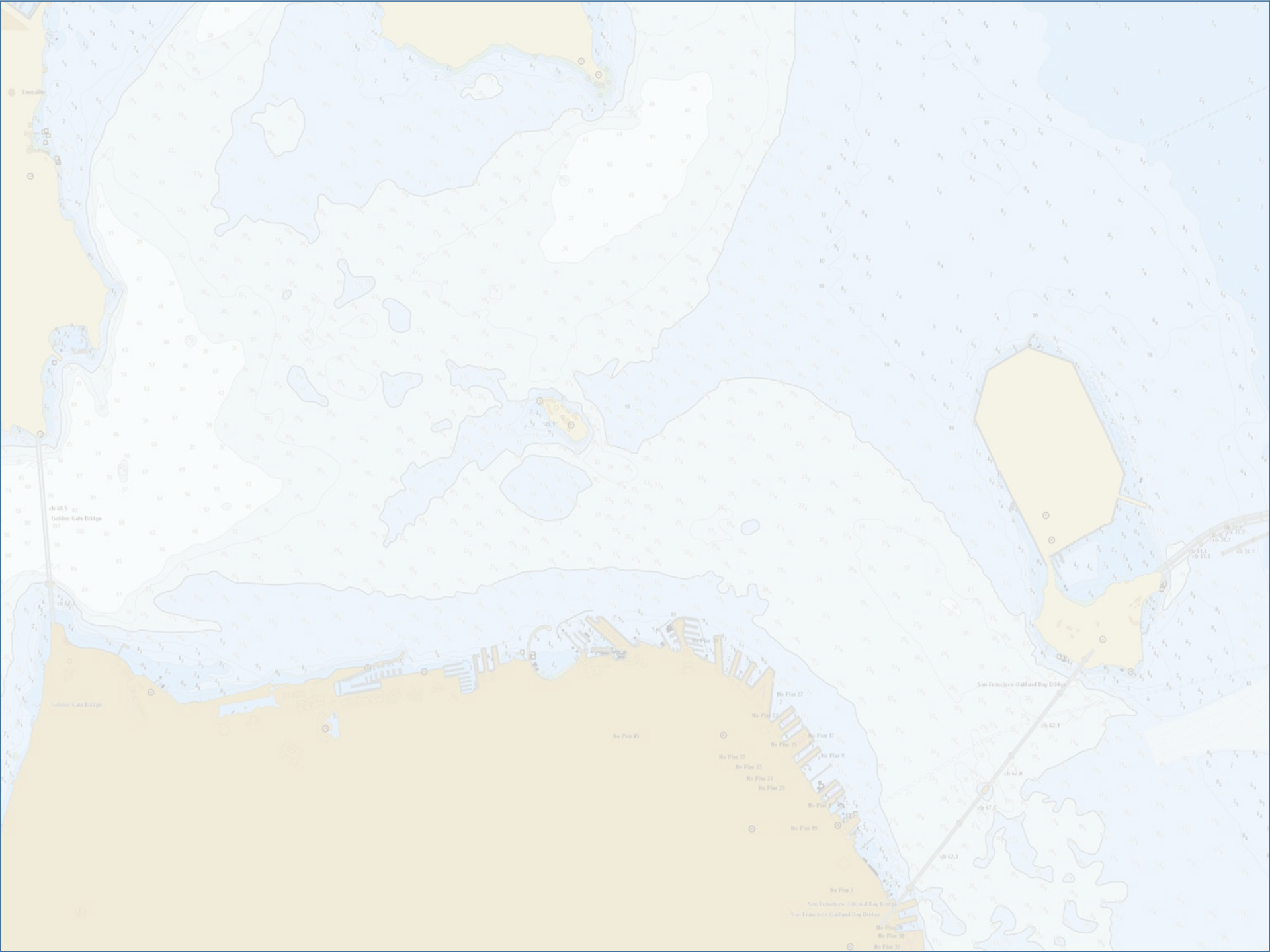
Open data policy MSDI

Electronic Navigational Chart Themes

Extracted at run time and updated weekly with latest edition ENC Cells.

Title	Source	ArcGIS Viewer	REST Service	Web Map Service	KML	Download Shapefiles	Download Metadata
Coastal Maintained Channels	OCS	.com	REST	WMS	KML	data	metadata
U.S. Maritime Limits & Boundaries	OCS	.com	REST	WMS	KML	data	metadata
Shipping Lanes and Regulations	OCS	.com	REST	WMS	KML	data	metadata

*To access the **Graphical Interface**, return to the NOAA ENC® Direct to GIS home page.*


Golden Gate Bridge
San Francisco-Oakland Bay Bridge