

NOAA Custom Chart ARHC Update

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FIND NAUTICAL CHARTS

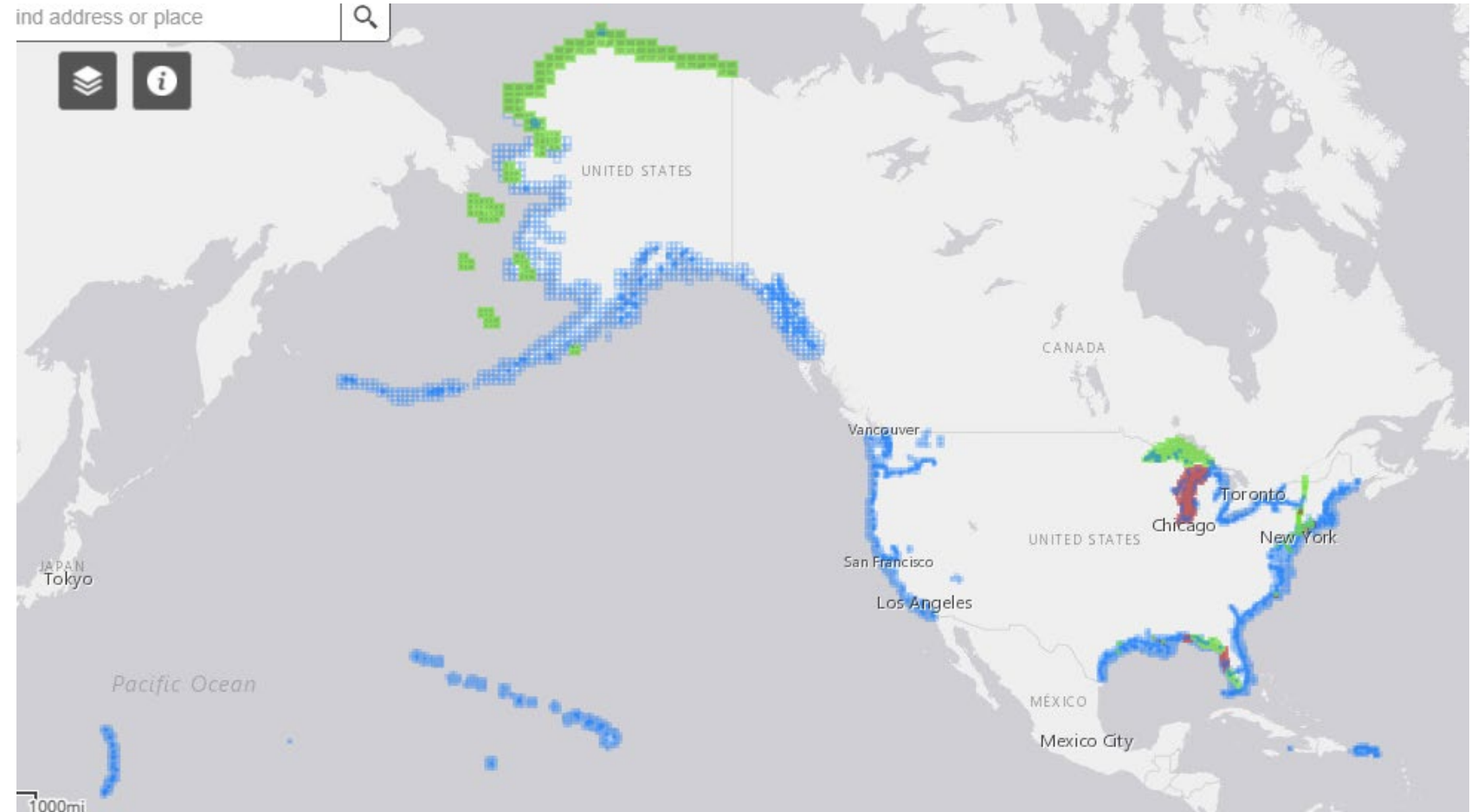
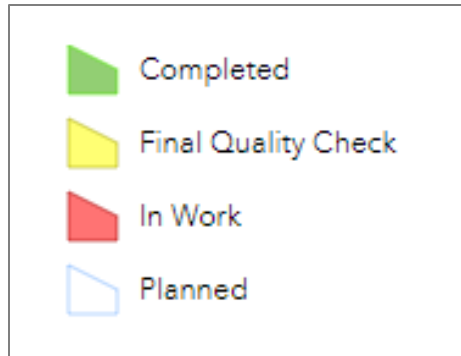
Chart Locator

Download Nautical Charts and ENC's

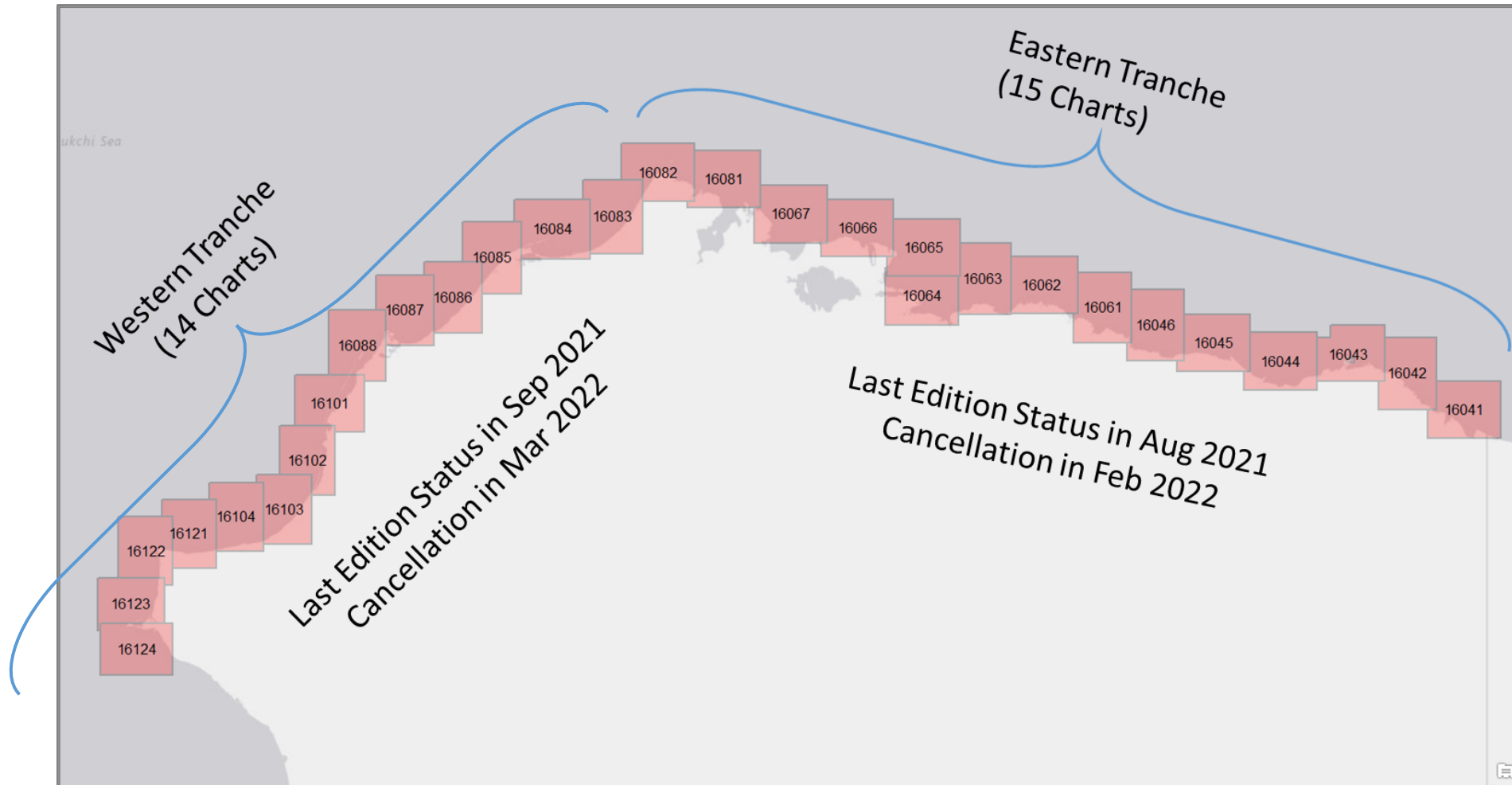


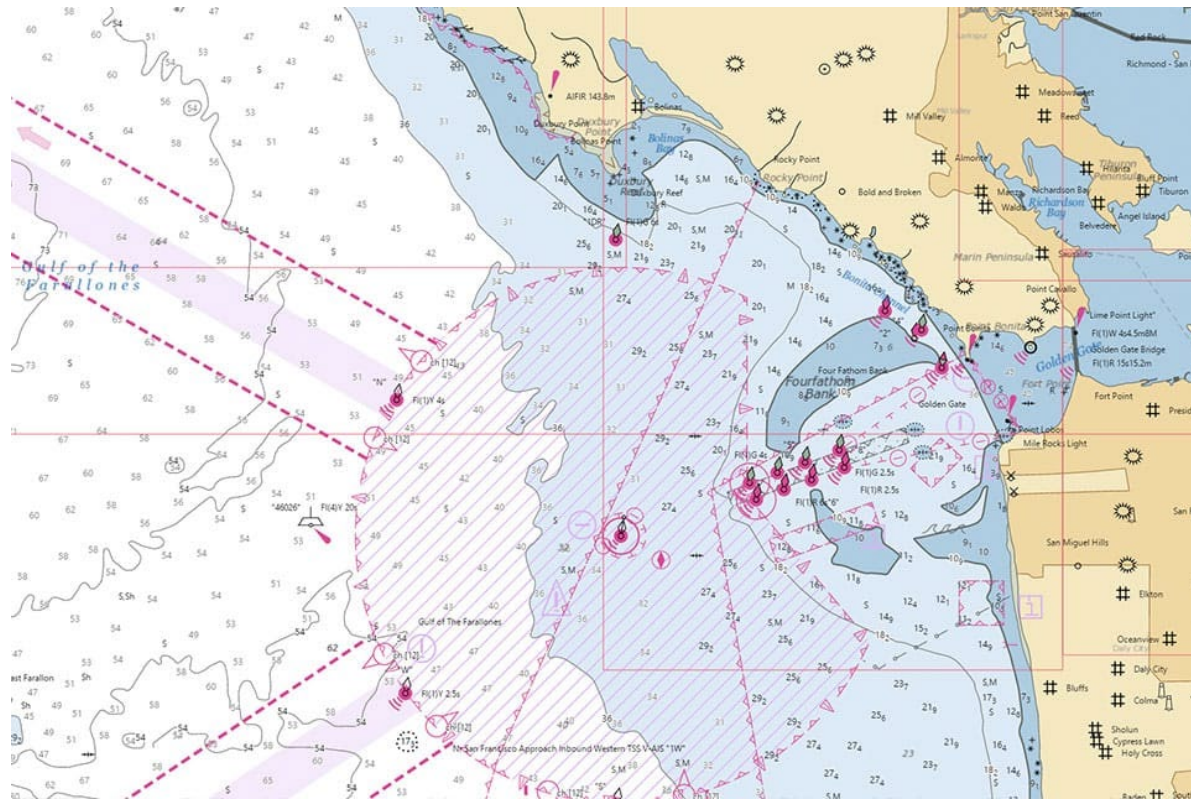
Office of Coast Survey
National Oceanic and Atmospheric Administration

<https://distribution.charts.noaa.gov/ENC/rescheme/>



Raster Cancellations: Alaska North Slope





- Version 1.1 Recently Released
 - Improvements:
 - New cursor style when computing chart extents.
 - Added additional output sizes.
 - NOAA symbology for additional point features.
 - Removed unnecessary options in Data Extents settings
 - Increased the time the application stores PDF output for downloading to 120 minutes.



Find address or place



Display Settings

Depth Contour (Meters)

Miscellaneous

Data extents:

On



Data extent text:

Scale



Intended uses:

☒ All Datasets

☐ Overview

☐ General

☐ Coastal

☐ Approach

☐ Harbour

☐ Berthing

Depth units:

Meters

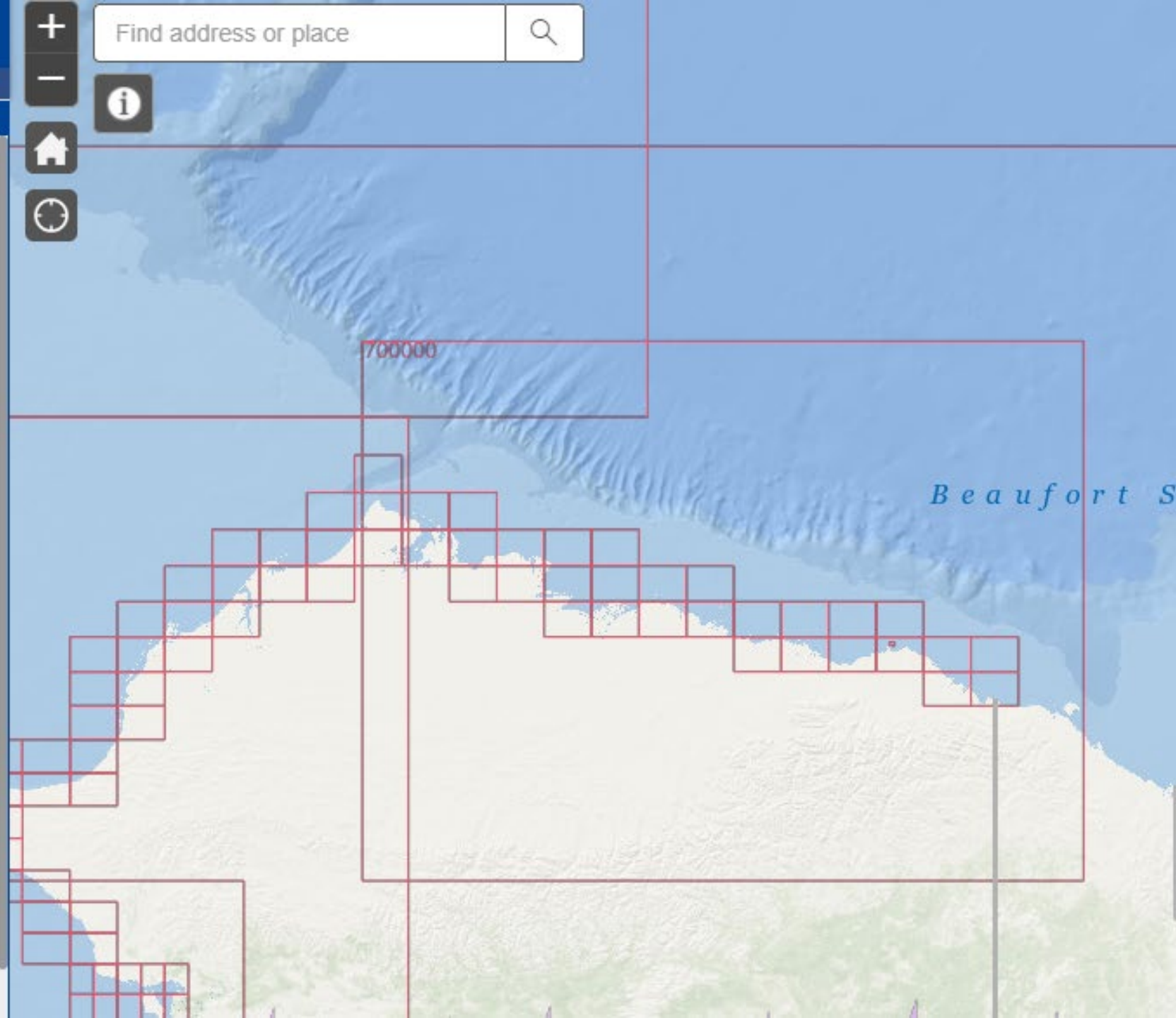


Label contours:

On



Off





Depth Contour (Meters)

Miscellaneous

Data extents:

On

Data extent text:

Scale

Intended uses:

☐ All Datasets

□ Overview

☒ General

☐ Coastal

□ Approach

☐ Harbour☐ Berthing

Depth units:

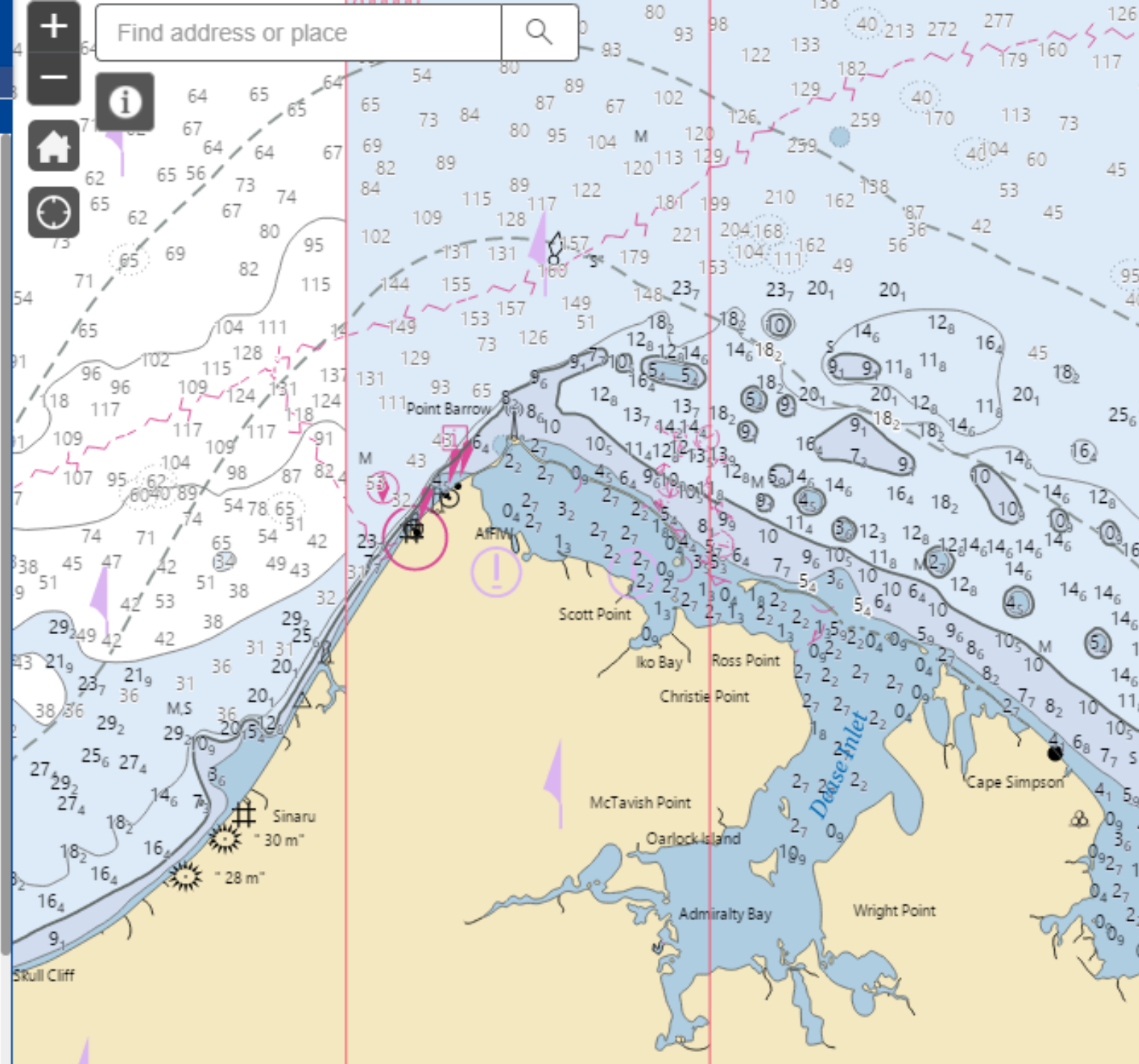
Meters

Label contours:

On ☒ Off

Label safety

On ☒ Off





Print Settings

Scale

40000

Page Size

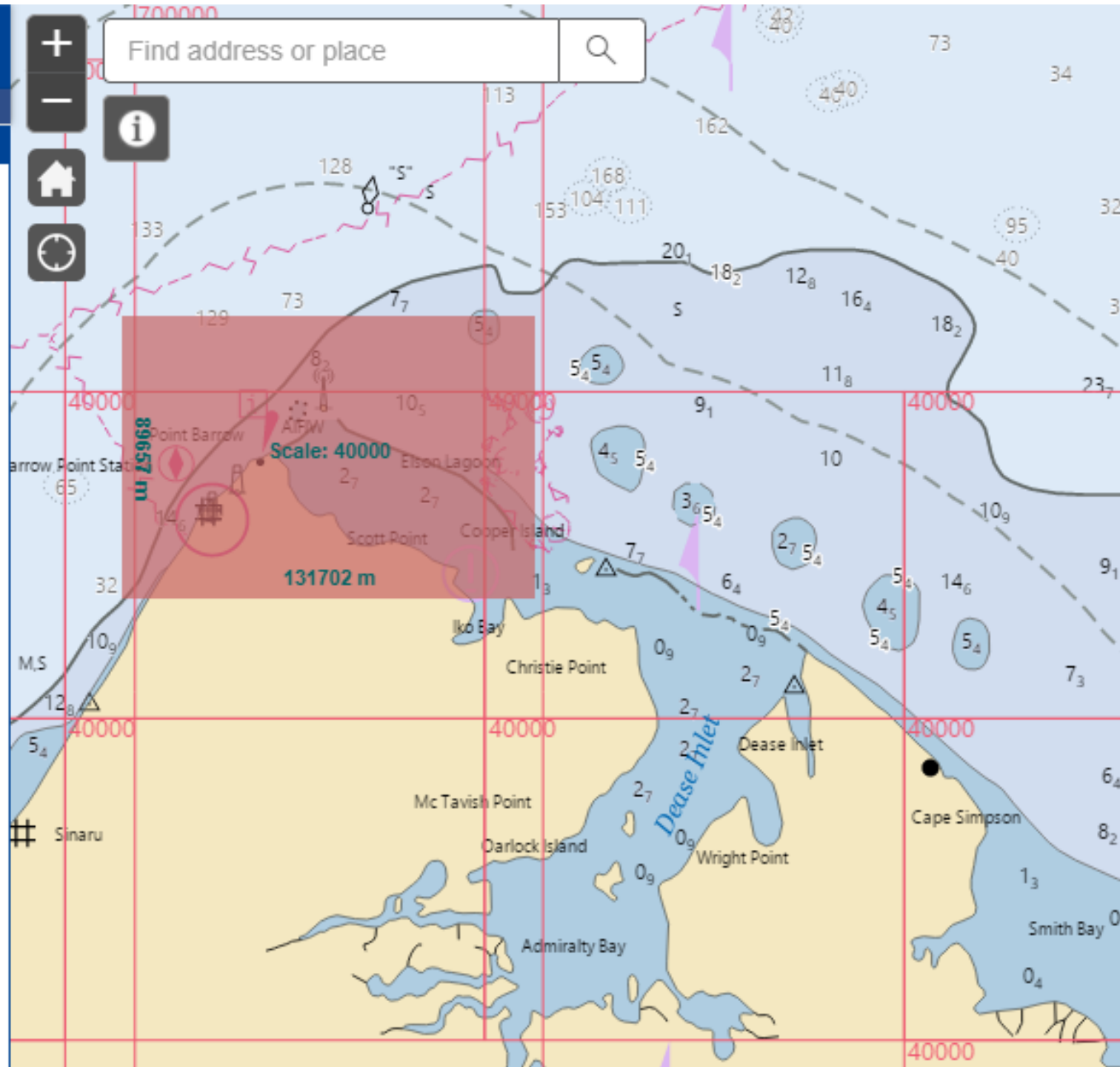
ANSI E (34in x 44in)

Orientation

Landscape



Find address or place





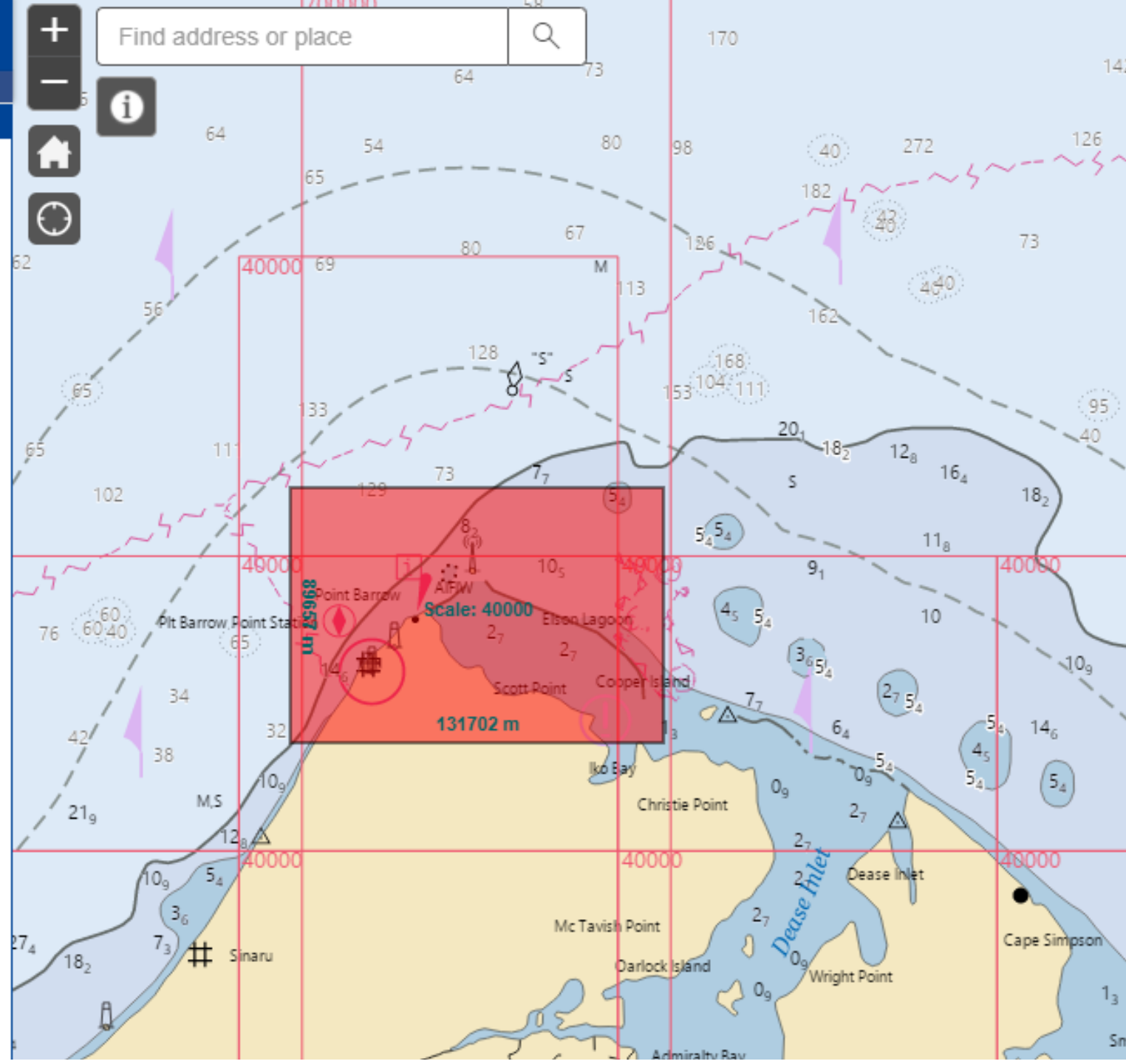
Export Queue

Barrow

0:00:23 Export 16.2%



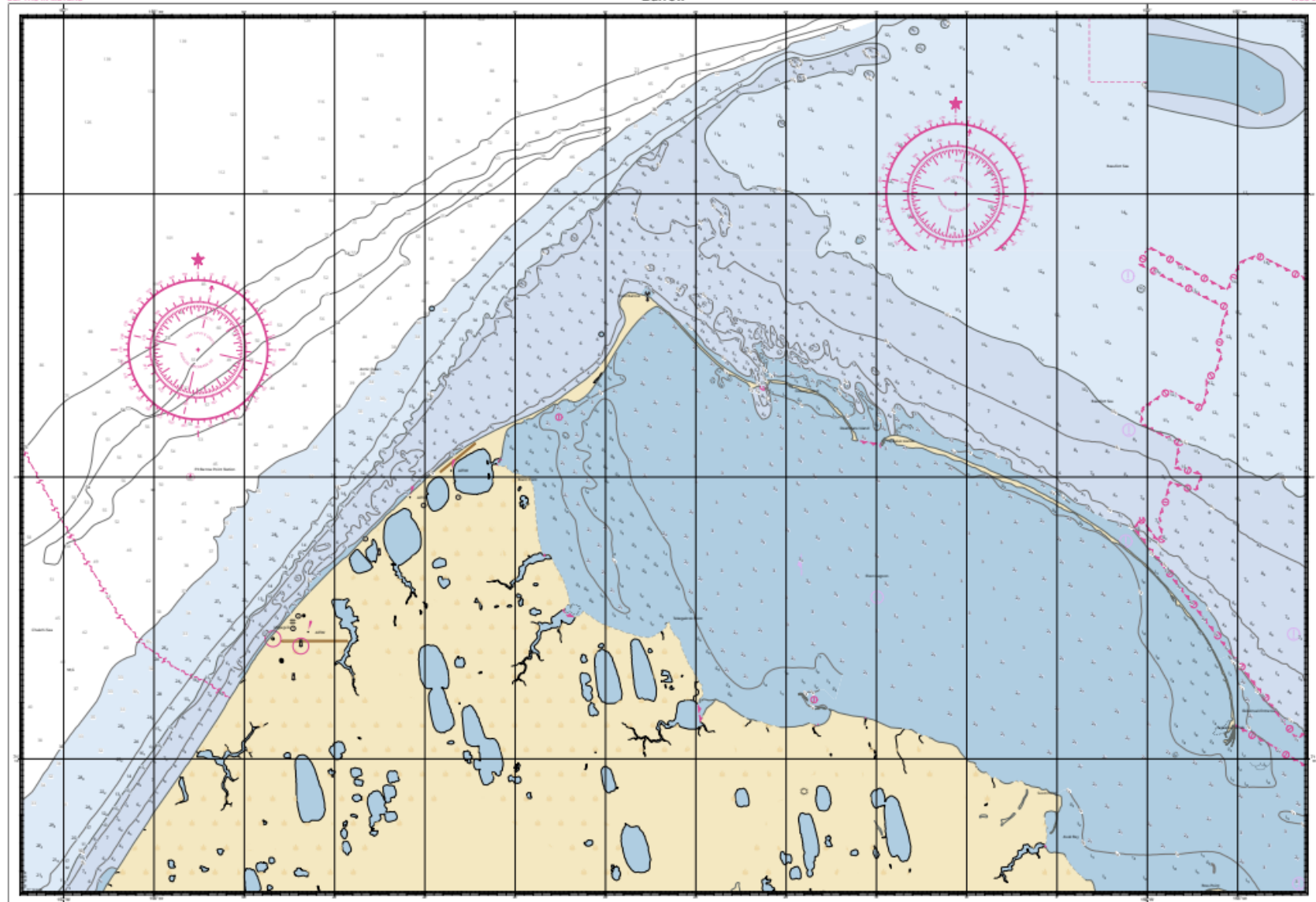
Find address or place



DEPTHS IN METERS

Barrow

WGS 84



WGS 84



NOTES ON CHARTS
 This chart is a reproduction of the original chart as published by the National Oceanic and Atmospheric Administration (NOAA). It is not to be used for navigation purposes. The chart is a reproduction of the original chart as published by the National Oceanic and Atmospheric Administration (NOAA). It is not to be used for navigation purposes.

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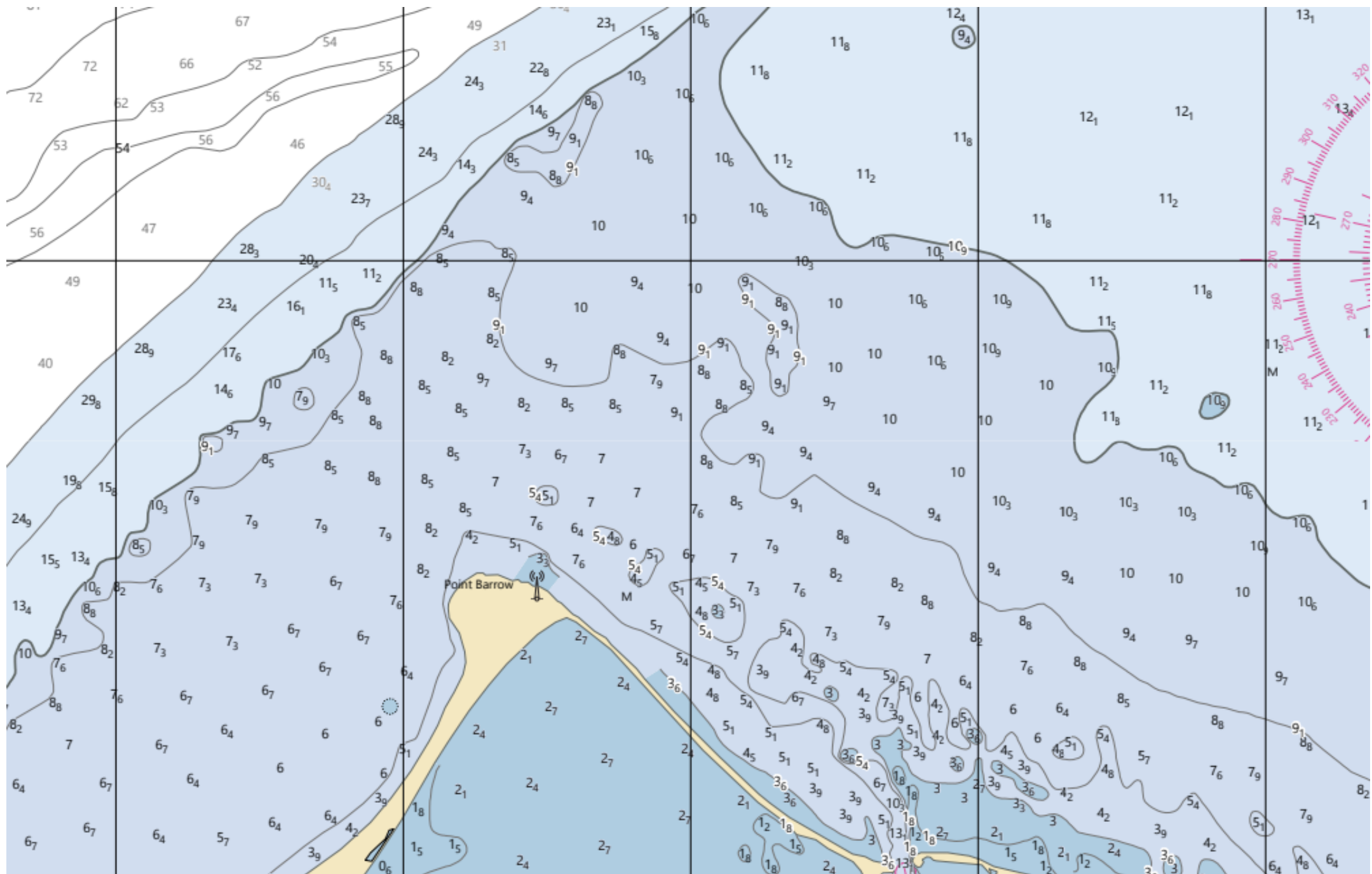
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DEPTHS IN METERS

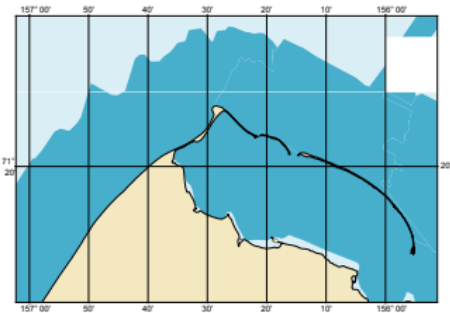


Scale bar showing distances in meters.



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Zone of Confidence (ZOC) Diagram



ZOC CATEGORIES

ZOC	COLOR	POSITION ACCURACY	DEPTH ACCURACY	SEAFLOOR COVERAGE
A1		± 5 m ± 16.4 ft	± 0.50 m +1% d ± 1.6 ft +1% d ± 0.3 fm +1% d	All significant seafloor features detected.
A2		± 20 m ± 65.6 ft	± 1.00 m +2% d ± 3.3 ft +2% d ± 0.6 fm +2% d	All significant seafloor features detected.
B		± 50 m ± 164.0 ft	± 1.00 m +2% d ± 3.3 ft +2% d ± 0.6 fm +2% d	Uncharted features hazardous to surface navigation are not expected but may exist.
C		± 500 m ± 1640.4 ft	± 2.00 m +2% d ± 6.6 ft +2% d ± 1.1 fm +2% d	Depth anomalies may be expected.
D		Worse than ZOC C	Worse than ZOC C	Large depth anomalies may be expected.
U		Unassessed - The quality of the bathymetric data has yet to be assessed.		

NOAA CUSTOM CHART
NOTES GEOSPATIAL DATABASE
VERSION 1.2 - 1 OCTOBER 2021

The records of the NOAA Custom Chart Notes Geospatial Database are current as of October 1, 2021. Subsequent additions and refinements are to be expected. Please refer to all available navigational publications for complete information about the charted area.

CHART EXPIRATION

Notice to Mariners are not issued for this NOAA Custom Chart. Users are strongly encouraged to replace this chart every six months.

HEIGHTS

Regardless of the units for depths, heights - including bridge and other overhead clearances - shown on this chart are in meters. Multiply meters by 3.28 to convert to feet.

WATER LEVELS, CURRENTS, AND TIDES

Real-time water levels, tide predictions, and tidal current predictions are available on the internet from NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) at https://tidesandcurrents.noaa.gov/water_level_info.html and https://tidesandcurrents.noaa.gov/currents_info.html.

ABBREVIATIONS

For complete list of Symbols and Abbreviations, see Chart No. 1.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

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USCG CARRIAGE REQUIREMENTS

Mariners should use the latest NOAA electronic navigational charts for navigation. This NOAA Custom Chart does not meet U.S. Coast Guard carriage requirements in several sections of titles 33 and 46 of the Code of Federal Regulations (CFR) for commercial vessels to maintain "currently corrected marine charts."

AUTOMATED CHART GENERATION

This chart has been automatically rendered from NOAA Electronic Navigational Chart (NOAA ENC®) data. Mariners using this chart must understand this is a static reproduction of the ENC and has not been individually quality checked or adjusted for optimal use for navigation.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard and National Geospatial-Intelligence Agency.

COMMENTS REQUEST

Inquiries, discrepancies or comments about the application used to generate this chart may be submitted to: <https://ocdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs>

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

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RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 9 for important supplemental information. Refer to charted regulation section numbers.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, AK or at the Office of the District Engineer, Corps of Engineers in Anchorage, AK.

Refer to charted regulation section numbers.

CAUTION
LIMITATIONS ON THE
USE OF RADIO SIGNALS

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

SOUNDING DATUM

Soundings referred to Mean Lower Low Water (MLLW).

VERTICAL DATUM

Overhead clearances are referred to Mean High Water (MHW).

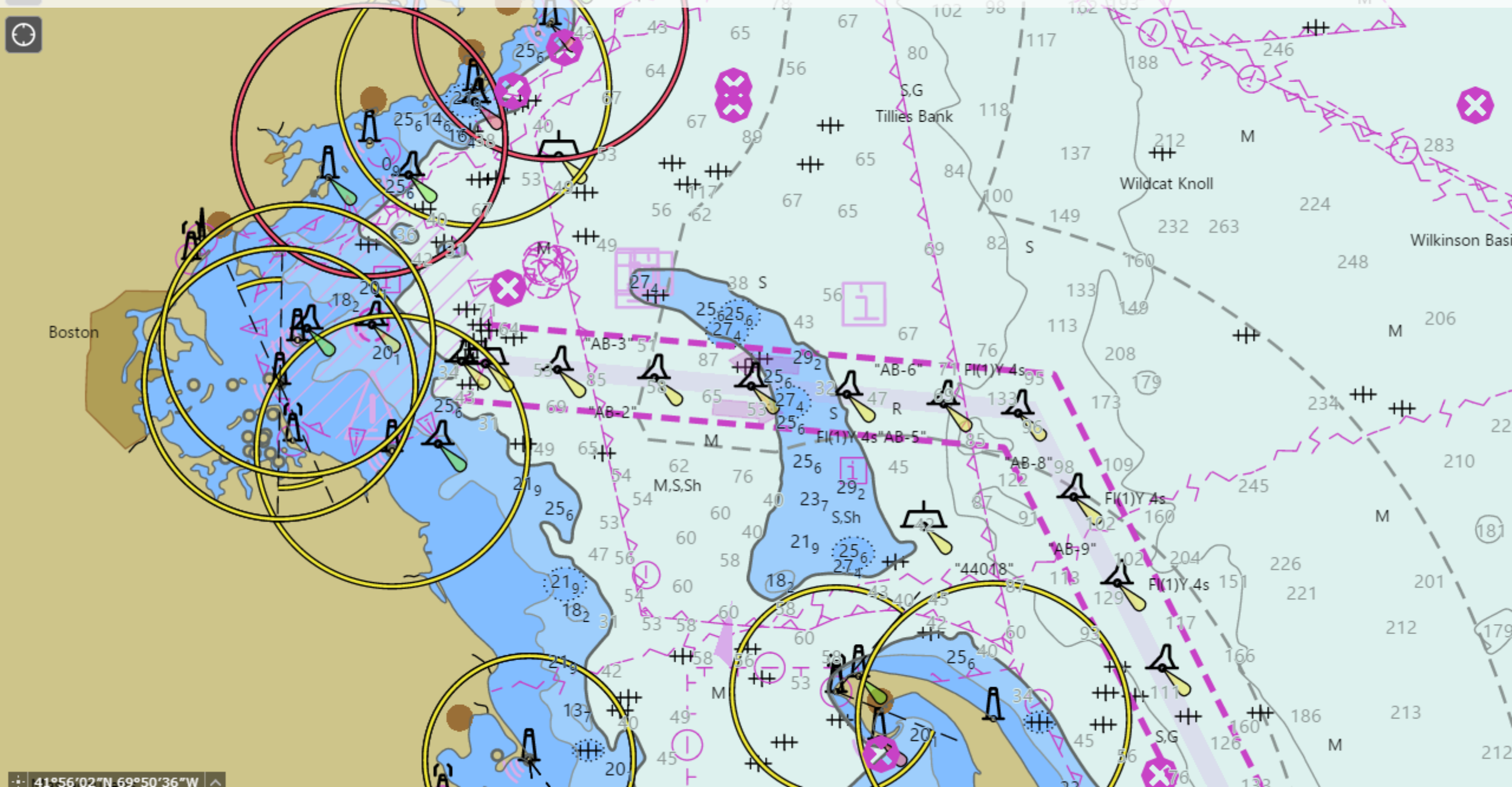
CAUTION

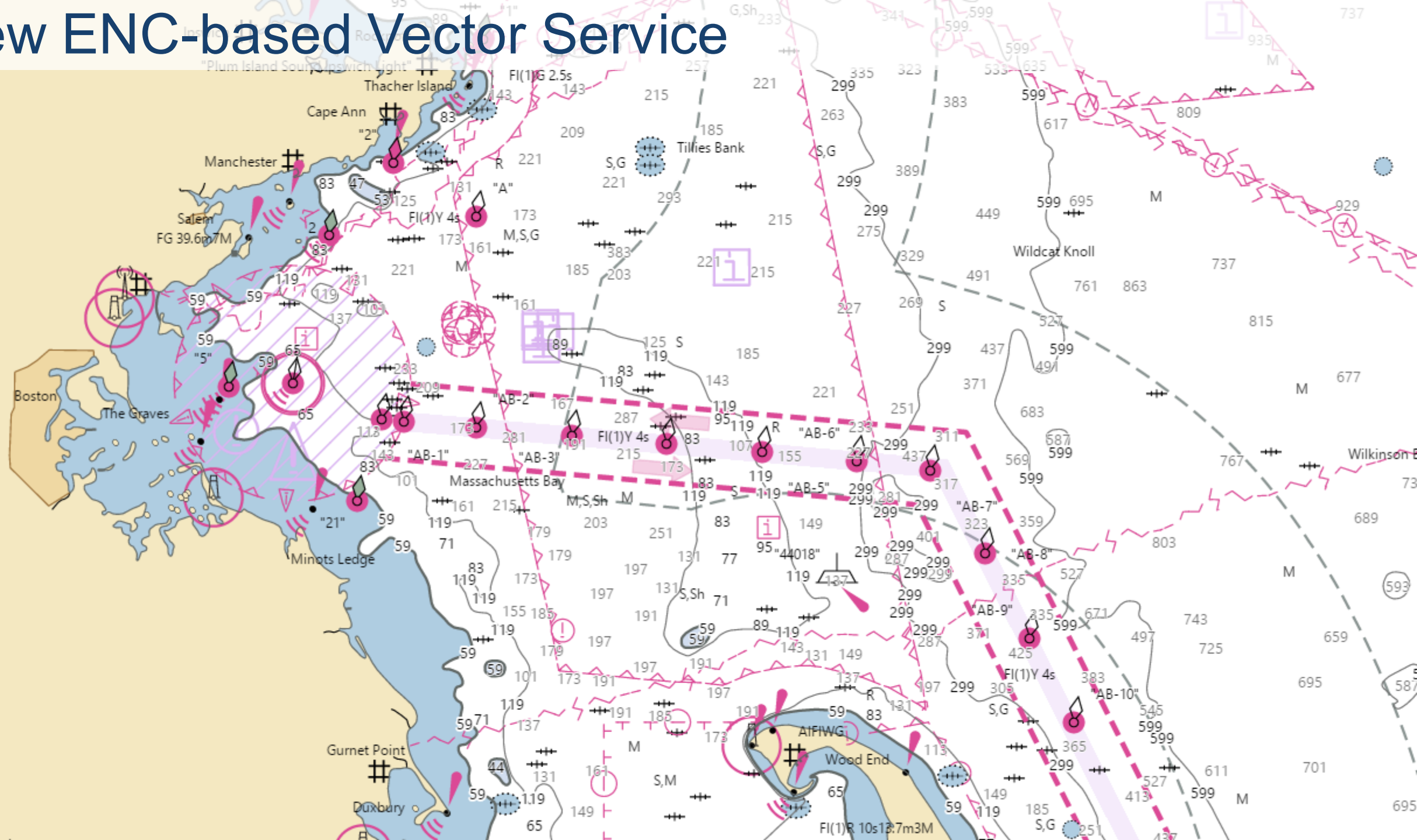
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners. During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details, see U.S. Coast Guard Light List.

CAUTION
SUBMERGED CABLES AND PIPELINES

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging or trawling. Covered wells may be marked by lighted or unlighted buoys.

ENC Viewer / REST Service and OGC WMS







Paper for Consideration by NCWG
Recommendations for Baseline Symbology Project Team Efforts

Submitted by:	United States - NOAA
Executive Summary:	To encourage an expedited plan for agreeing on symbols and uses for automated paper chart production
Related Documents:	NCWG Work Plan (page 28 of HSSC 2020-2022 Work Plan) S-4, IHO INT Chart Regs and Chart Specifications NCWG The Future of the Paper Nautical Chart Final Report
Related Projects:	

Introduction / Background

The NCWG has established a Baseline Symbology Project Team to develop an agreed upon set of symbols for automated S-101 paper chart production from ENC data. The Future of the Paper Nautical Chart Survey, conducted in 2019, showed that over 70% of the responding IHO Member States indicated that they either have started automated production or are exploring ways of creating paper charts from S-57 ENCs. There is an increasing need to have an agreed upon set of international symbols and rules or use in automated production. Some hydrographic offices could make use of the work now, if it were available.

Analysis / Discussion

There is an excellent opportunity for the world to take advantage of new technology to build paper charts, allowing for an increased capacity for hydrographic offices to concentrate on building S-57, S-101, and other datasets that the shipping world will require in the future.

NOAA recommends the Project Team consider the following as it moves forward with completing NCWG Work Plan Item E11 to "Develop baseline symbology to support automated chart production."

- Be Expedient

Many Member States have already started, or plan to start, automated paper chart production using S-57 data. The world would be well served by an agreed upon set of digital symbols and portrayal rules, available freely to all Member States, to use in existing production systems and the S-101 systems of the future. The concept of standard digital symbology and automated chart production was discussed at HSSC11 in May 2019,¹ and at NCWG5 in November 2019.² Despite the formation of a project team and a virtual team meeting being held in March 2021, other tangible progress has been slow appear. We encourage NCWG and the project team to drive forward with renewed purpose to build upon automation progress that has already been made by some industry partners and Member States so that others may take advantage of these resource and time saving capabilities as soon as possible. A prototype of some nature should certainly be available to share by the autumn of 2022.

- Be Flexible

NCWG7

- Be Expedient

- Be Flexible

- Be Pragmatic

Thank You