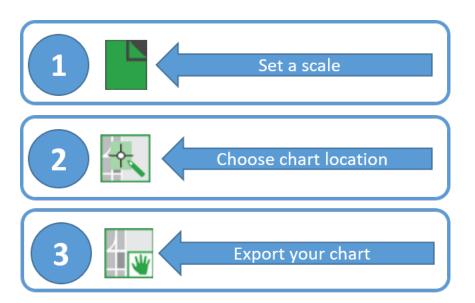


The NOAA Custom Chart tool is a prototype that will allow boaters to create a customized chart in three easy steps!

- Set a scale
- Choose chart location
- Export



The tool outputs a customized raster (PDF) chart generated from ENC data

- Uses NOAA electronic navigational chart (<u>NOAA ENC®</u>) database of chart products
- Contains surround elements of a chart
 - Neatline and coordinate grid
 - Scale bar
 - Compass rose
 - Notes
- Currently can choose "traditional" or "simplified" ECDIS symbology
- Future versions will include full paper chart symbology as an option
- Create a paper or digital back-up for using on board

Technology leverages Esri web services integrated into a web application

- NOAA ENCOnline map service
- Geoprocessing services for data export and print to pdf
- Settings (ECDIS display parameters) based off of JavaScript Object Notation (JSON) accessed through ArcGIS Server REST API

```
▼ Query String Parameters
                                                                                                                                                                                                    view URL encoded
             dpi: 96
             transparent: true
             format: jpeg
             frames_on: false
             bbox: -8537322.131117577,4688325.286586455,-8486759.036907,4730480.307685672
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             f: image
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             ue":0},{"name":"CompassRose","value":1},{"name":"DataQuality","value":1},{"name":"DisplayDepthUnits","value":30},("name":"DisplayCategory","value":1,2,4"},{"name":"DisplayDepthUnits","value":1},
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             layers: show:0,1,2,3,4,5,6,7
```

Define the custom chart product

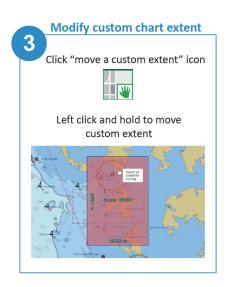
- Select scale default is 1:25000
- Select Page size
- Select Orientation



Set custom chart extent

- Click on map where center of extent will be
- Move extent to adjust location

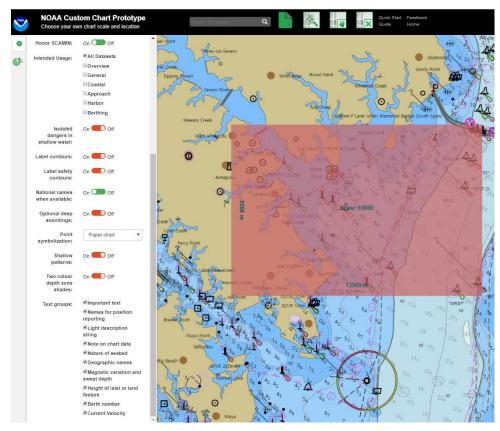




Adjust chart settings

- Use the Setting to adjust:
 - Text groups
 - Color scheme
 - Depth units
 - Label contours

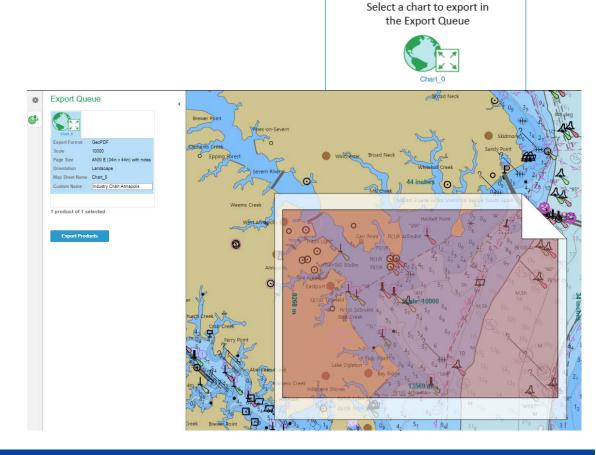




NOAA Custom Chart

Export chart

- Select the chart:
 - Verify information
 - Set custom name



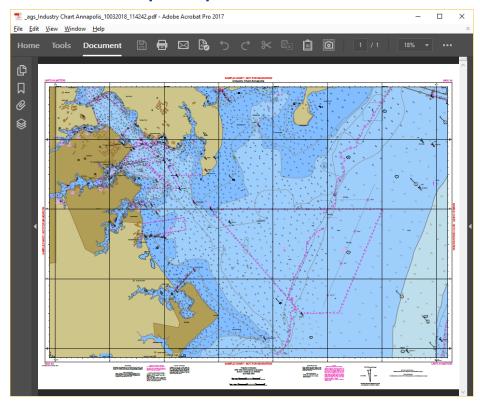
Export

Click "export products" button

NOAA Custom Chart

Download and open chart

Click link to open pdf link





NOAA Custom Chart

Feedback

Tell us your ideas for improving the new tool through <u>NOAA's</u>
 <u>Nautical Inquiry & Comment System</u>
 (https://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=C-POD)

-OR-

- For more information contact <u>Colby.Harmon@noaa.gov</u> and <u>MeiLing.Freeman@noaa.gov</u>
- Read more and explore the tool
 - https://noaacoastsurvey.wordpress.com/2018/04/11/onlinenoaa-custom-chart-lets-boaters-create-their-own-charts/
 - https://nauticalcharts.noaa.gov/charts/custom-chart.html