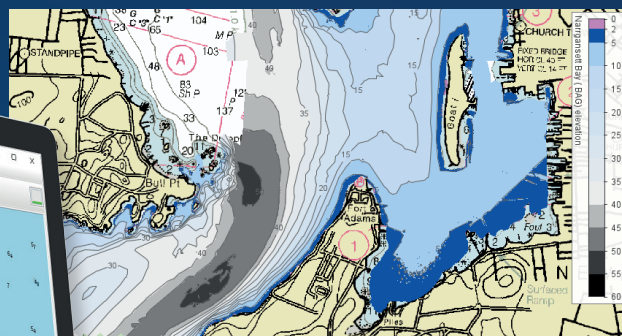
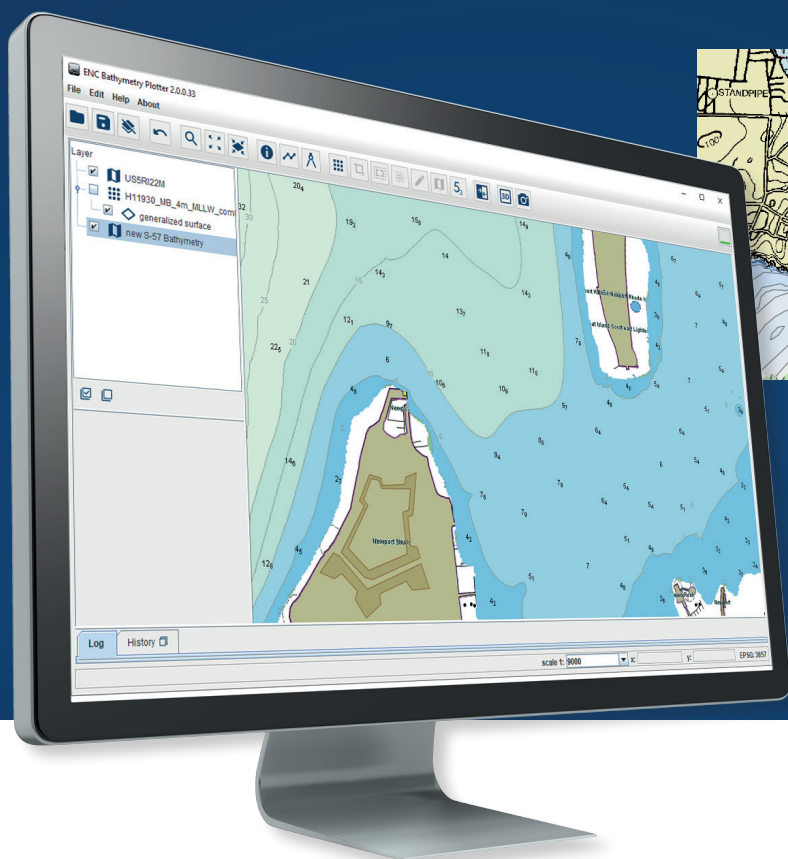


# ENC BATHYMETRY PLOTTER

The most advanced solution for production of ENC bathymetry



ENC Bathymetry Plotter produces **S-57** bathymetry for direct incorporation into approved ENCs.

**ENC BATHYMETRY PLOTTER** uses bathymetric data to create contour lines, depth areas and selected soundings.

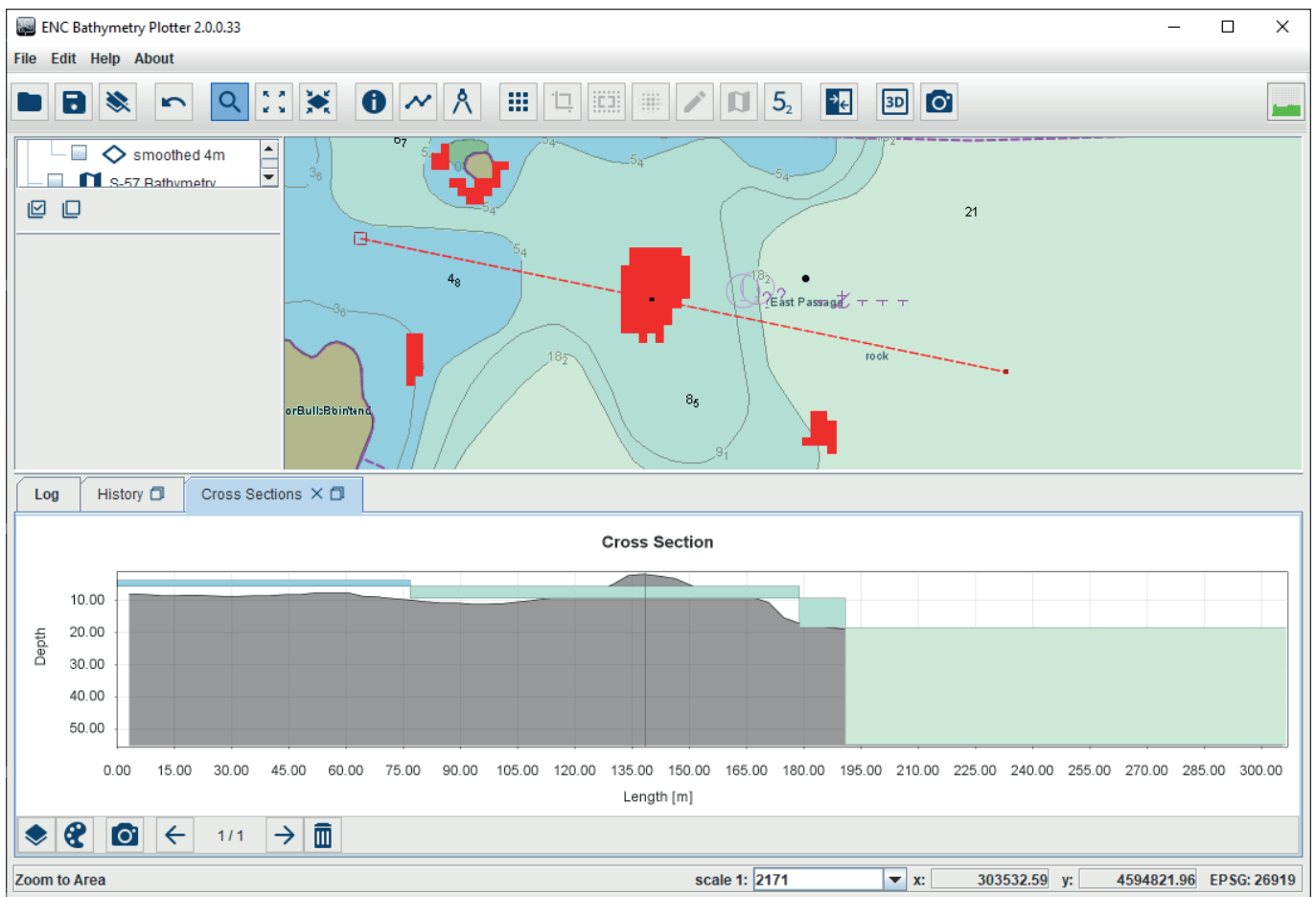
The contouring process is applied to a so called 'Nautical Elevation Model'. Users only need to set a few parameters (e.g. contour levels).

The resulting contour lines have a smooth, user-friendly appearance and usually require no further generalisation. Manual finetuning is still possible. ENC Bathymetry Plotter also enables users to configure their own preferred levels of density for soundings.



## PRODUCT HIGHLIGHTS:

- Smooth progression of tasks: importing the data; creating the model; exporting the results
- Processes gridded bathymetry files (e.g. S-102, BAG) or xyz point-cloud data
- Visualisation settings: many options for customising presentation of the data
- Shoal-biased smoothing and generalisation process
- Easy-to-use, refined function of selecting soundings, building-in preference factors
- Generates a detailed processing report and statistics in PDF format, enabling customers to maintain transparency and traceability in their own QA procedures
- Contour-intervals can be set at any density level (suitable for High Density ENC's, bENC's/bIENC's, regular ENC's)



Examples of differences in soundings between input and output chart\*

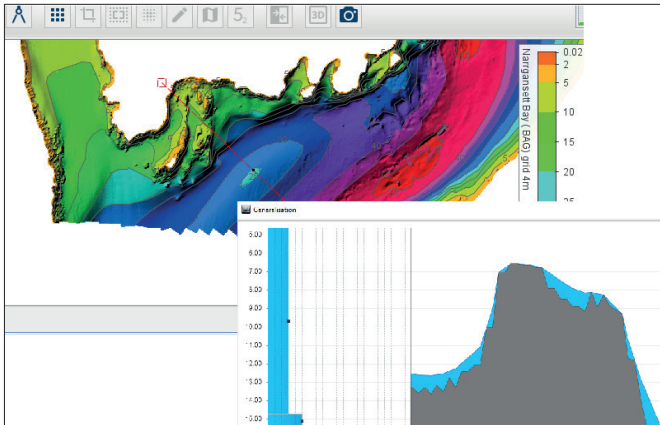
## OVERVIEW

- Multiple degrees of flexibility – fine-tuning the chart to your needs: distance between depth contours; wide range of visualisation settings; variable density of soundings; variable degree of generalisation; fine-tuning of the degree of exclusion of small areas; reducing contour vertices to what is strictly needed in terms of target-scale
- Highlighting differences between input data and output chart
- Pre-defined chart boundaries: making it much easier to exactly define the geographic limits of your chart
- Reducing the strain on data processing by cropping large areas, precisely setting the 'frame' that sub-divides such an area
- S-57 compatibility built into every step of tailoring the product to user preferences

\* The image was created from data provided by courtesy of NOAA

## INPUT DATA

- Direct import of gridded bathymetry files and of output models from previous sessions
- Preview of xyz input file; easy mapping of x, y and z columns onto charts
- Definition of grid-size and interpolation parameters



## DATA VISUALIZATION

- Use of pre-defined chart boundaries for 'framing' output ENCs to match users' requirements; makes it much easier to produce made-to-measure sub-areas from large areas
- Wide range of colour palettes. Choice of gradient or gradient colour mode
- Backdrops: various options for inclusion of auxiliary data (e.g. GeoTiff backdrops, ENCs, ESRI Shape © files)
- 3D display: also as a helpful tool when verifying the suitability of the output layer
- Source data and output model displayed separately
- Display-of-difference model

## OUTPUT MODEL

- Tailoring of level of generalisation to suit users' requirements
- Profiles created automatically and interactively in profile viewer
- Dynamic process of presenting the output model as it progressively takes shape

## SELECTION OF CONTOURS AND SOUNDINGS

- Choice of levels for depth contouring; either entering individual values or defining a starting value and a constant interval for contours
- Optimising of contours, and thus of the chart's visual appearance, by reducing the number of line vertices in contours' coordinates; also by avoiding small, closed contours
- User-defined density of soundings (variable distances)
- Option of also calculating the deepest sounding (not only the shallowest)

Interval Levels [m]	15.0				Take Over from Contour Levels	
Sounding Intervals	from	to	Chart [mm]	World [m]		
	-∞	15	2.5	50		
	15	+∞	3.75	75		
Distance to	Unit Chart [mm]		<->	Unit World [m]		
Contour Lines	0.05			1		
Underwater Obstructions	20			400		
Small Areas Size Less Than	10			200		

Configuration of Sounding Selection

## TOOLS AND EXTRAS

- Supports the large number of EPSG Coordinate Reference System definitions – geographic (e.g. Lat Lon WGS-84) and projected (UTM) coordinate systems
- Measuring of distance
- Real Display scale can be defined
- Profile-drawing function
- Statistics tool
- Log-book functionality

