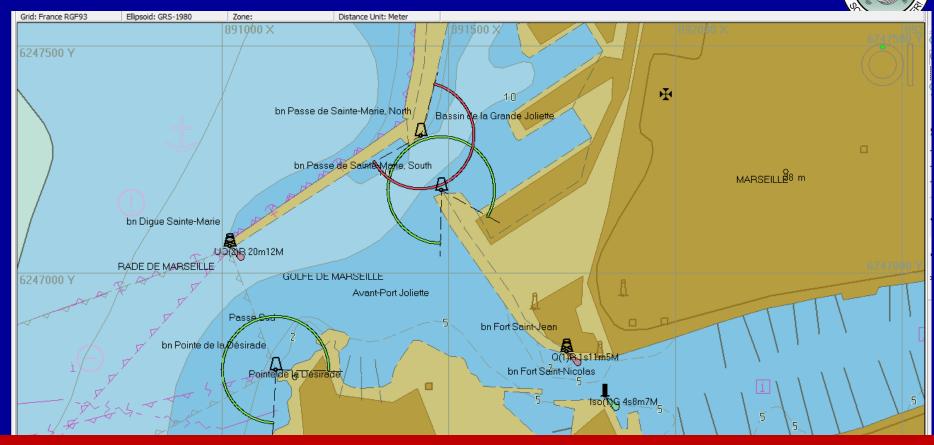


ENC EDITOR APPLICATIONS

HYPACK November 2012

ENC EDITOR Summary



The ENC EDITOR allows you:

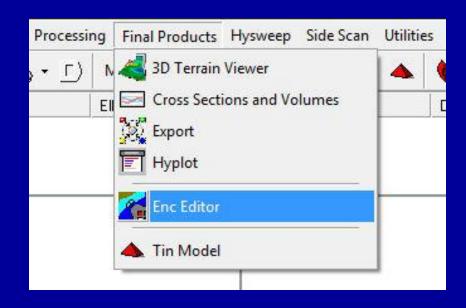
- Modify existing S-57 Charts
- Create new S-57 Charts
- Create sounding overlays for S-57
- Validate S-57 Charts

- Digitize GeoTifs to S-57
- Export S-57 to DXF
- Perform real time verification
- Pilot Planning

Launching ENC EDITOR



- ENC EDITOR is used to create and/or modify electronic charts in S-57 format.
- Located under the 'Final Products' menu.
- ENC EDITOR reads the GEODETIC PARAMETERS for the current project.
 - Your S-57 data is always saved in WGS-84.
 - HYPACK performs a datum transformation (if needed) and a grid conversion to correctly display the S-57 chart on any projection.



You cannot read S-63 (encrypted S-57 files) into the ENC EDITOR. This is due to copyright restrictions.

Updating Existing S-57 Charts

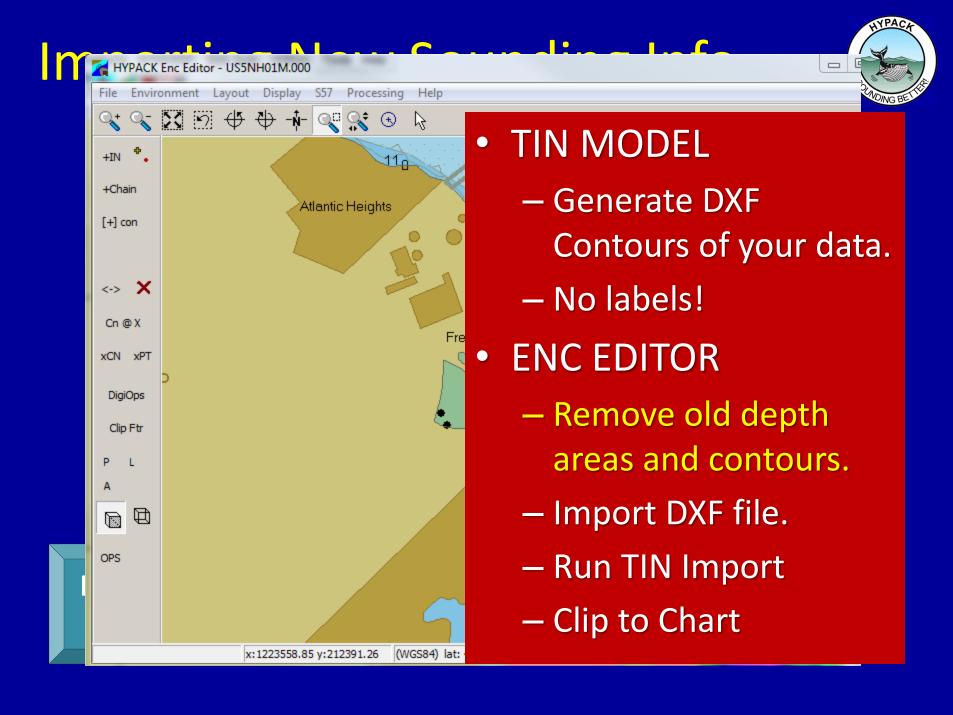




x: 1223871.46 y: 212698.68

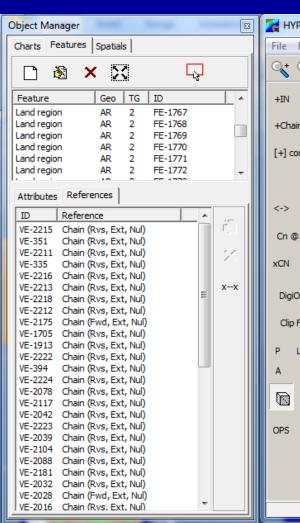
(WGS84) lat: 43 04 48.3543 N lon: 070 46 11.1623 W

Indating Exicting 5-57 Charte HYPACK Enc Editor - US5NH01M.000 - 0 File Environment Layout Display S57 Processing Undo X 🪰 Clipboard +Chain × Е [+] con 108 Name VI-4 <-> X Cn @ X xCN xPT DigiOps 147 Piscataqua River Clip Ftr 157 Ø \square shells,sand OPS 03 137 (WGS84) lat: 43 06 26.3265 N lon: 070 47 51.853 W Scale: 402 ft:in x:1216296.09 y:222539.00



Importing New Sounding Info







TIN MODEL

- Generate DXF Contours of your data.
- No labels!
- ENC EDITOR
 - Remove old depth areas and contours.
 - Import DXF file.
 - Run TIN Import
 - Clip to Chart Boundary

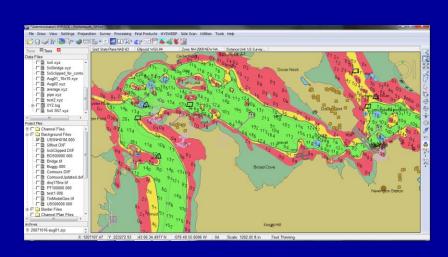
x: 1226718.03 y: 212692.51 (WGS84) lat: 43 04 48 N lon : 070 45 32.8111 W

Scale: 370 ft:in

Pilot Planning Tool



- Adjusts safety, shallow and deep contours based on tide, keel clearance and safety margin to show safe pathways.
- Checks for vertical clearances.
- Optional color schemes
 - S-52
 - Bathy Blue
 - Red, Yellow & Green



Importing New Sounding Info

HYPACK

File Envir

+IN

+Chain

[+] con

Cn @ X

xCN xPT

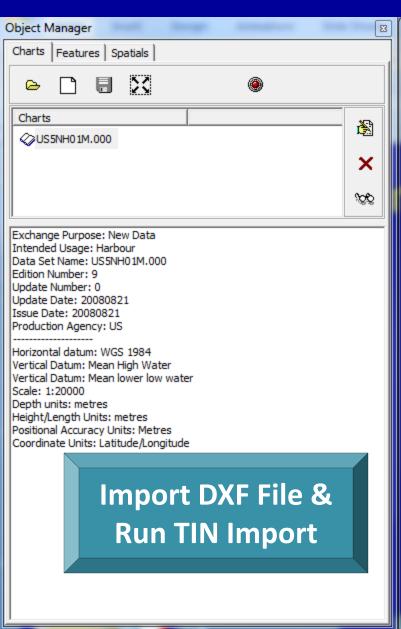
DigiOps

Clip Ftr



elrei Faller

mouth



- TIN MODEL
 - Generate DXFContours of your data.
 - No labels!
- **ENC EDITOR**
 - Remove old depth areas and contours.
 - Import DXF file.
 - Run TIN Import
 - Clip to Chart

N late 42 05 27 5222 N lane 1070 46 21 6

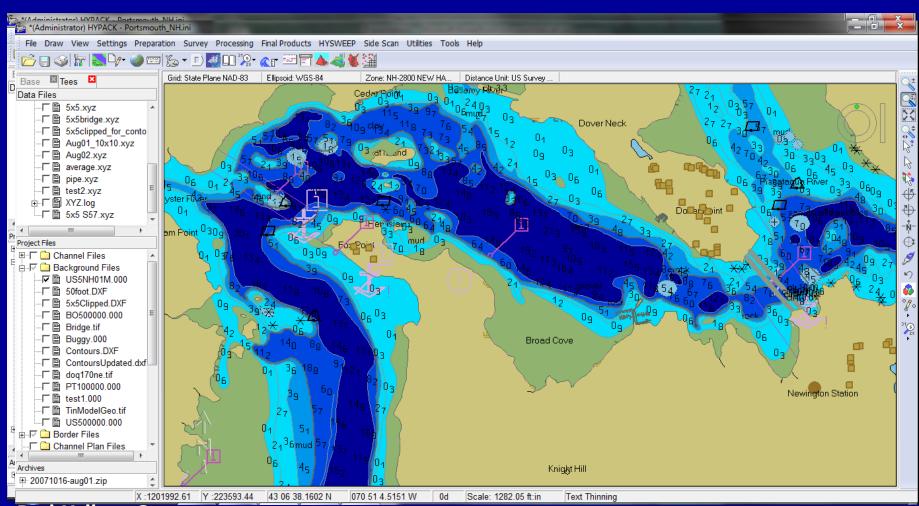
x:1223038.09 v:217668.26

(WGS84) lat: 43 05 37.5223 N lon: 070 46 21.6767

Color Schemes



These schemes can be set in either the HYPACK SHELL or the ENC EDITOR.



Importing Soundings

HYPACATO THE PROPERTY OF THE P

- Soundings can be integrated:
 - As a part of your S-57 Chart

S

- As an update to your S-57 Chart
- As a separate sounding overlay.

Cn@X

xCN xPT

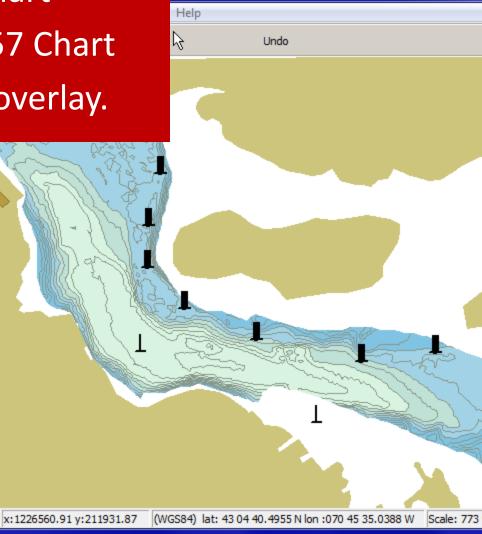
DigiOps

Clip Ftr

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Exchange Purpose: New Data Intended Usage: Overview Data Set Name: Portsmouth.000

Edition Number: 1 Update Number: 0 Update Date: Issue Date: 20111112

Production Agency: 0_ ------Horizontal datum: WGS 1984

Vertical Datum: Mean Sea Level Vertical Datum: Mean Low Water Springs

Scale: 1:100000 Depth units: metres

Height/Length Units: metres
Positional Accuracy Units: Metres
Coordinate Units: Latitude/Longitude

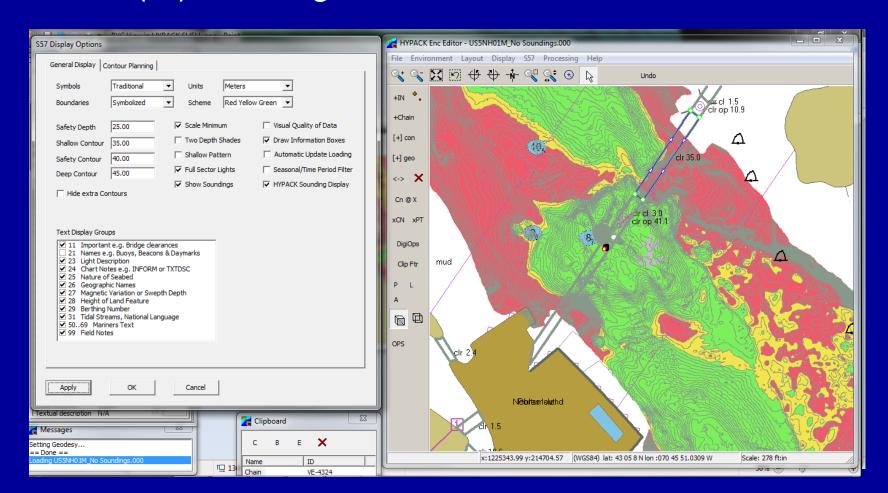
S-57 Sounding Overlays _ 0 HYPACK Enc Editor - Portsmouth.000 Environment Layout Display S57 Processing Ba Undo So +Chain [+] con Mew New Sounding Cn @ X xCN xPT **DigiOps** Clip Ftr Sounding ✓ Adjus Creat Ø Insert OPS

(WGS84) lat: 43 05 11.2458 N lon: 070 45 10.9693 W

Hiding Unused Contours

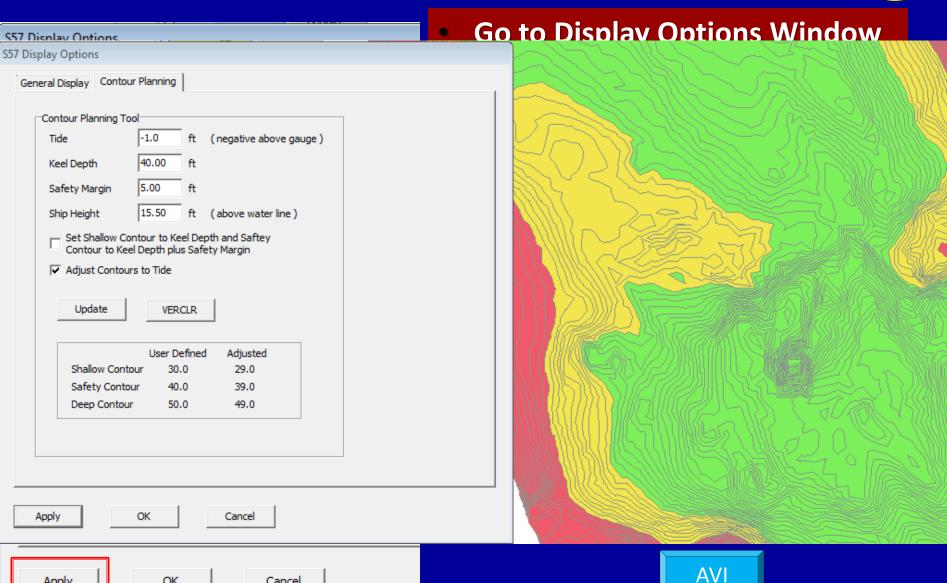


- For pilot planning, you need to have lots of contours!
- To hide unused contours from the display, go to the Display Options window (F9) and change the 'Hide Extra Contours' check box.



Pilot Planning: Adjusting Depth Areas for Tide



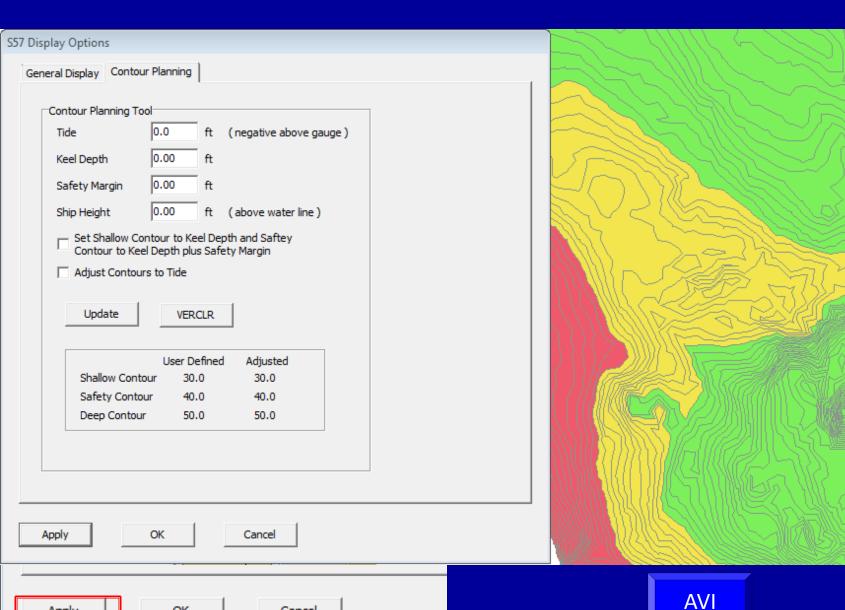


Apply

Cancel

Pilot Planning: Keel Clearance

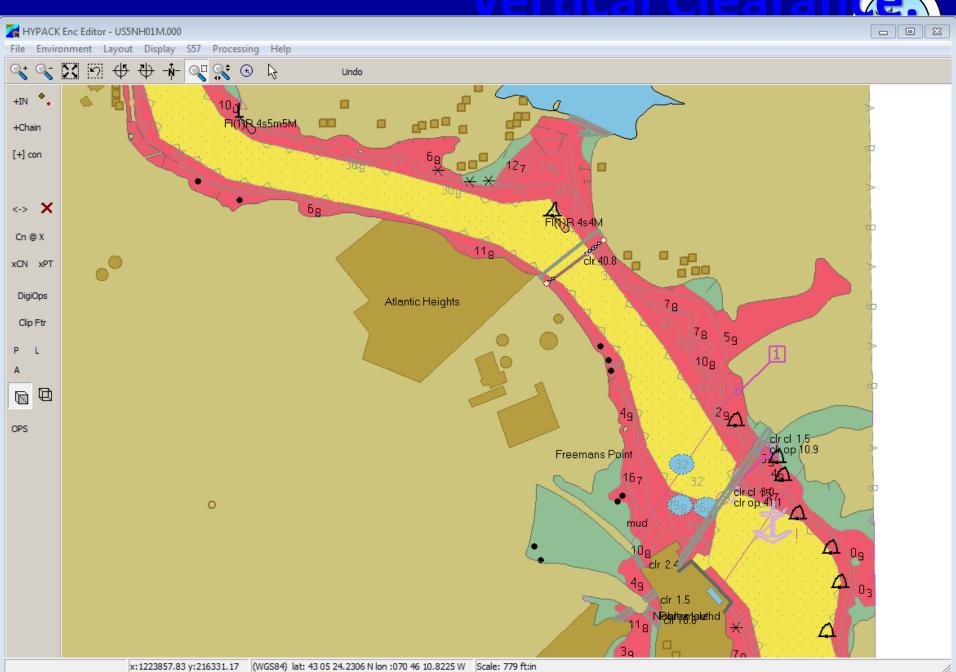




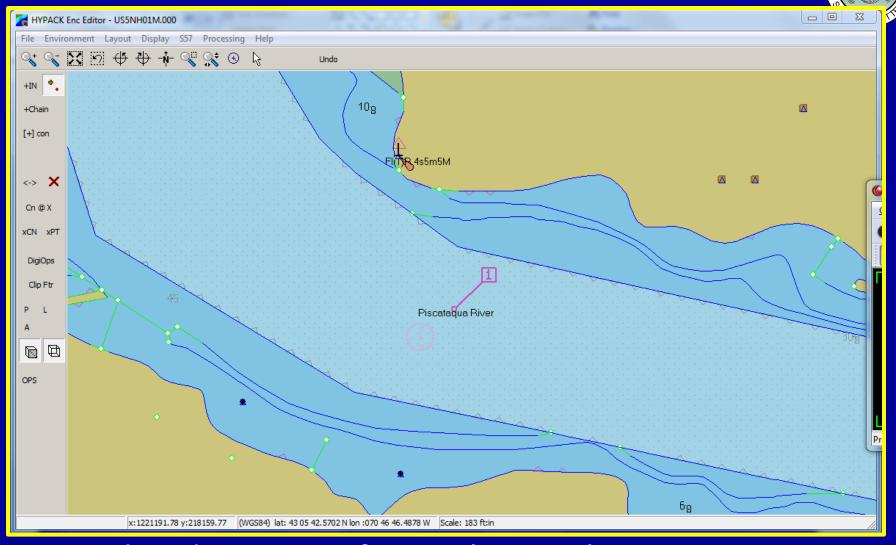
Cancel

Apply

Vertica Clearan Ce



ENC Validation



• Used to determine if your chart violates ENC Encoding rules.

ENC Verification



