



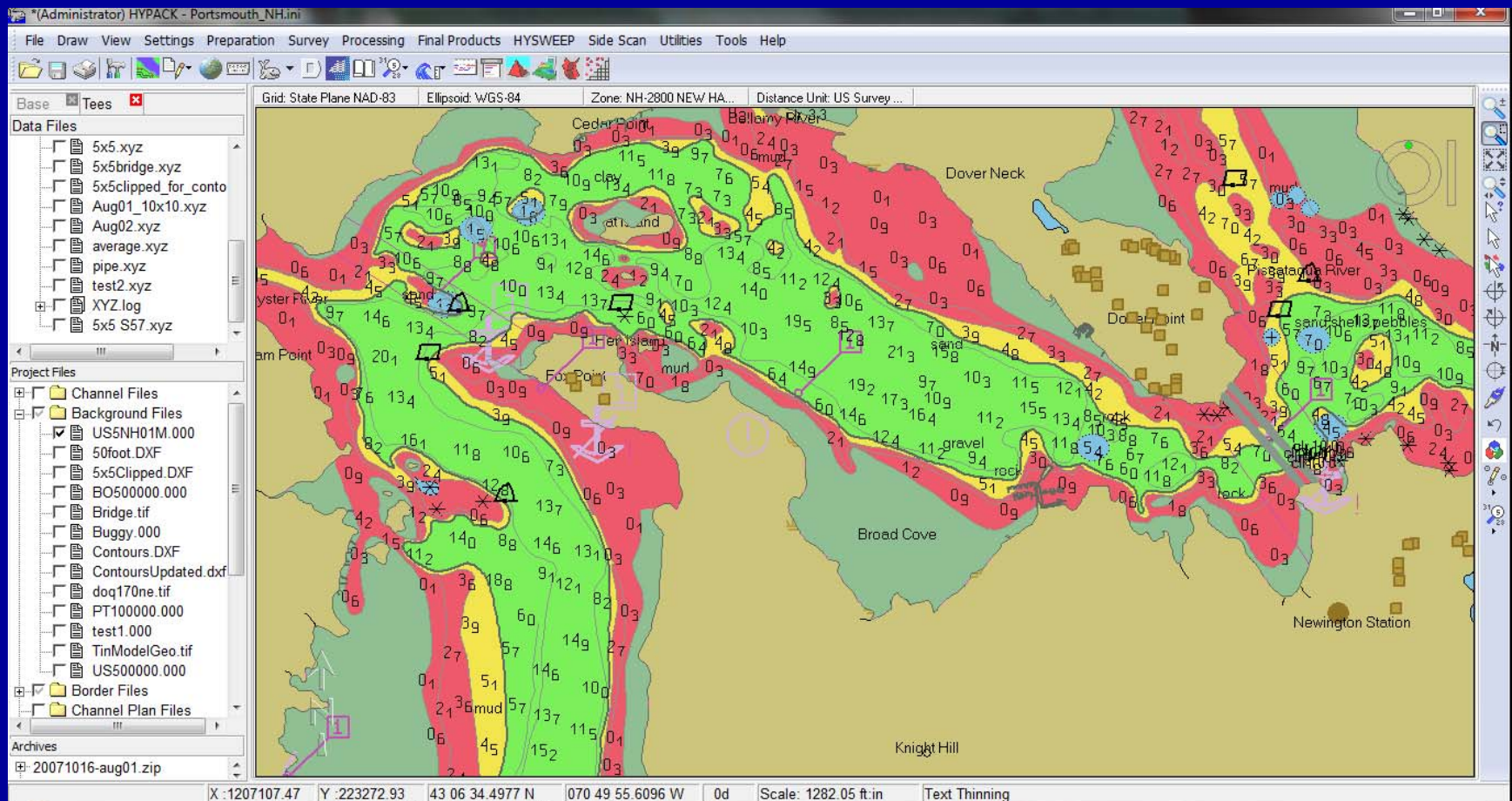
DYNAMIC ENC DISPLAY

HYPACK 2012

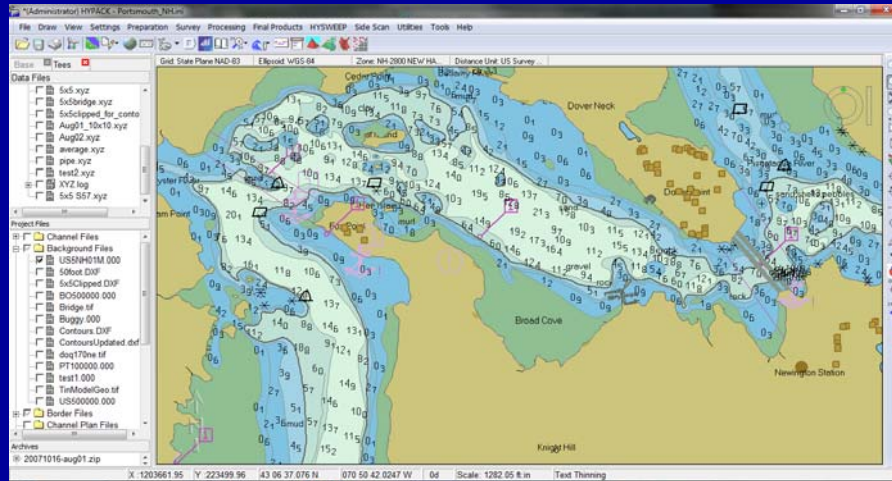


In our HYPACK 2012 release, we have made changes to dynamically change the display of S-57 ENC charts. These changes include:

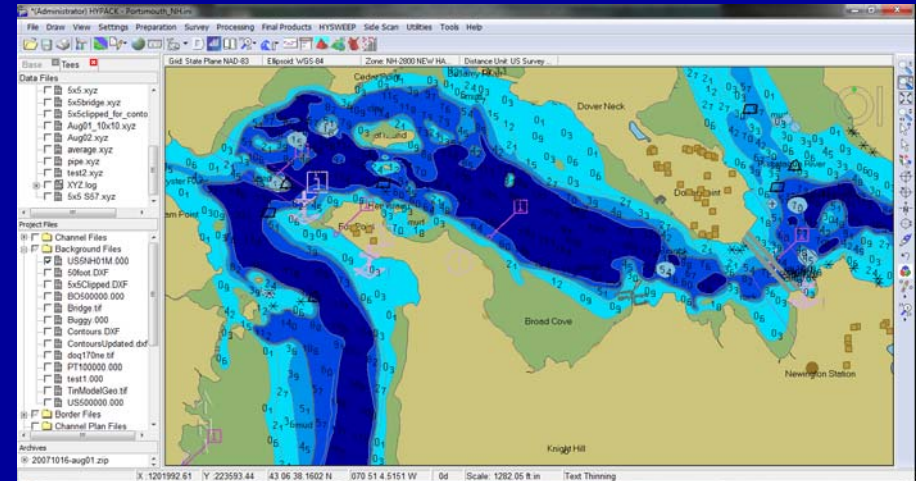
- New color schemes for the display of Depth Areas
- Adjustment of Shallow and Safety Depths Due to Water Level
- Adjustment of Shallow and Safety Depths Due to Keel Depth and Safety Margin.
- Checking for Vertical Clearances based on Height of Vessel Above Water Level



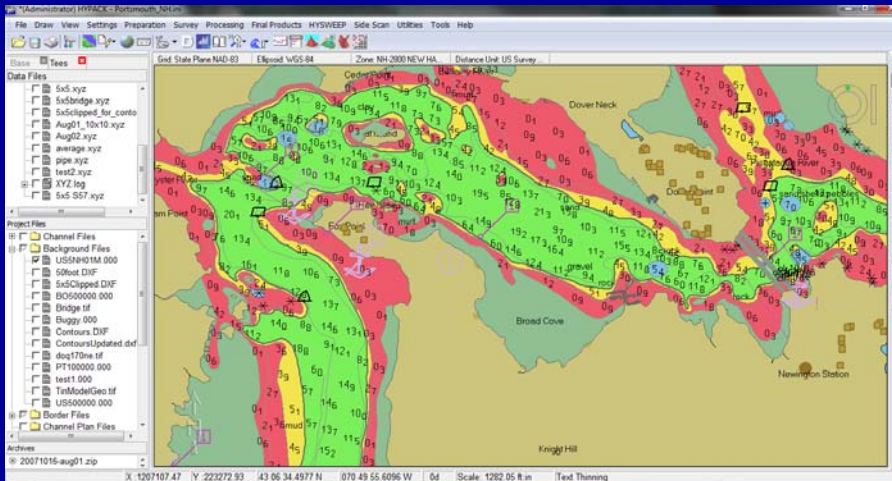
Color Schemes



Traditional S-52

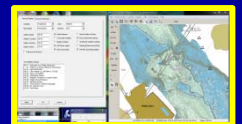


Bathy Blue



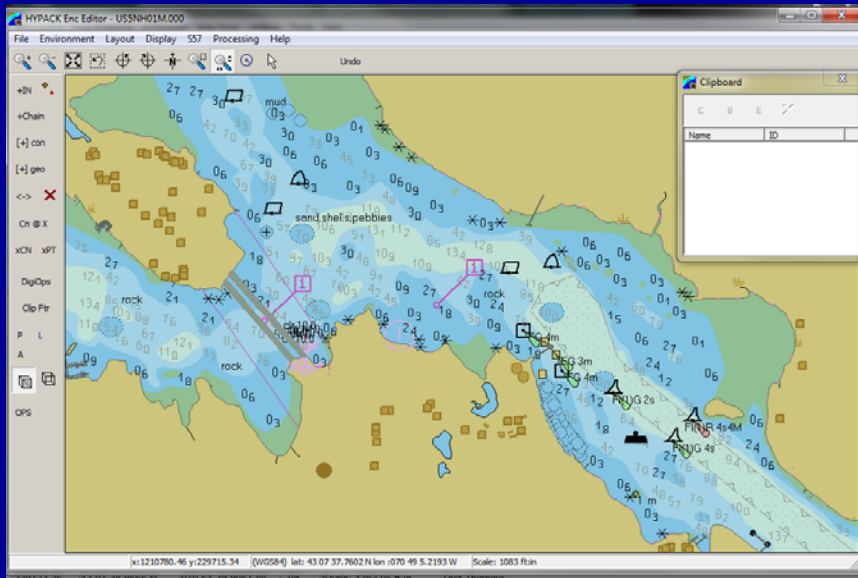
Red-Yellow-Green

- These schemes are set in either the HYPACK SHELL or the ENC EDITOR.
- They are maintained in subsequent programs (HYPACK SURVEY, HYPLIT, etc.)
- Click on the box below to launch the AVI that demonstrates the changing of the schemes in the ENC EDITOR.

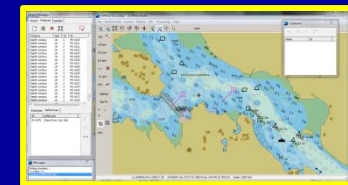
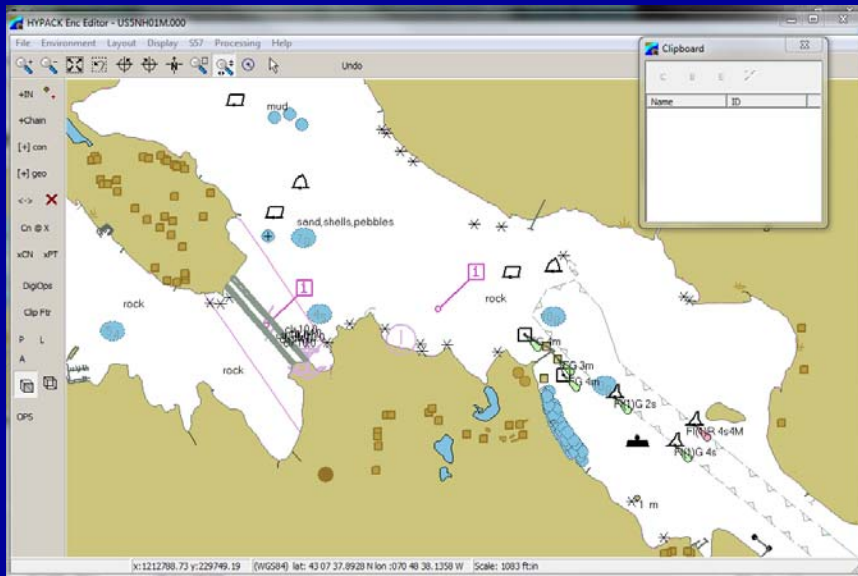


AVI

Removing Existing Depth Data

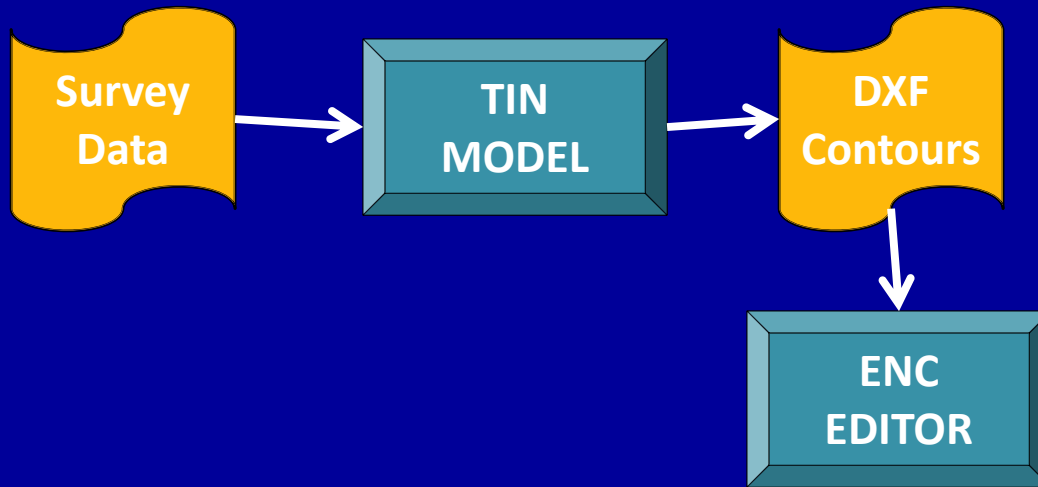


- Load an S-57 chart.
- Click 'Processing – Remove Depth Areas, Contours and Soundings'.
- Voila!

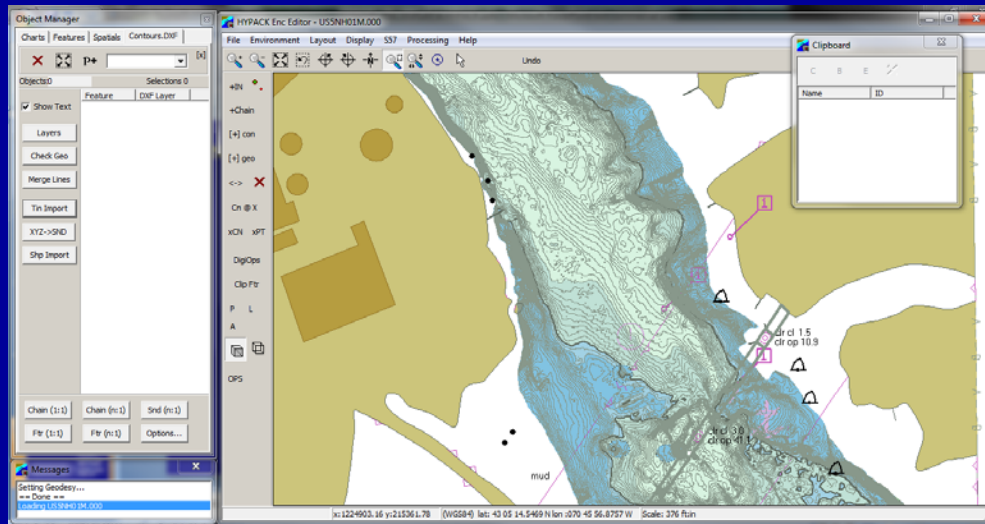


AVI

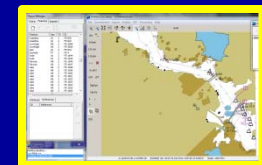
Creating New Depth Areas and Contours



- Create a new contour file from your most recent soundings in HYPACK's TIN MODEL.
- Import the DXF file into the ENC EDITOR.
- Automatically convert the polylines to S-57 Contour line features.
- Automatically convert the solid fill areas to S-57 Depth Areas.

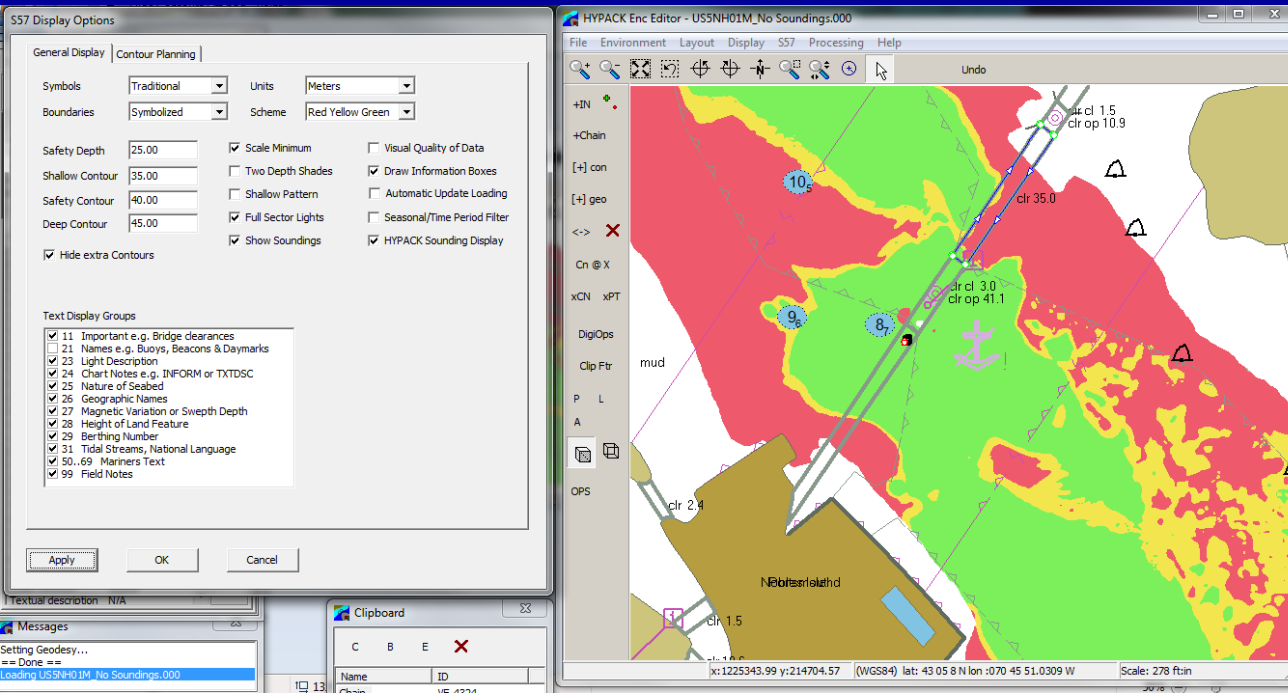
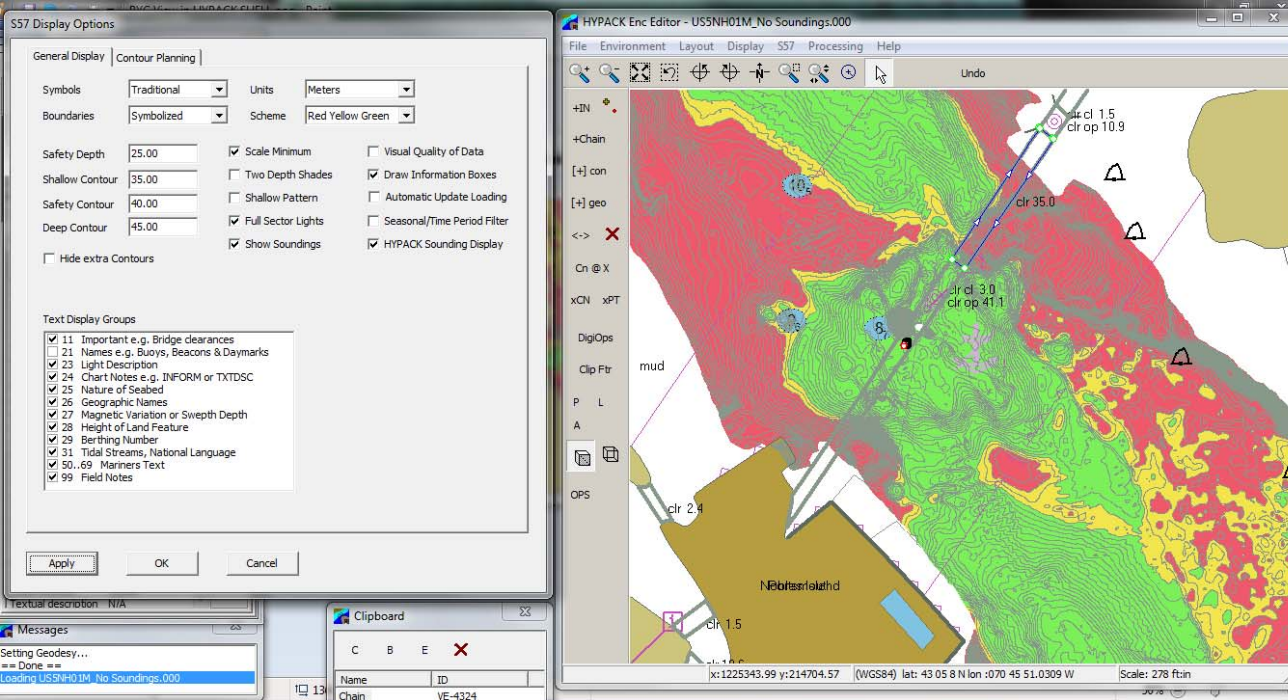


AVI





Hiding Unused Contours



To remove unused contours from the display, go to the Display Options window and change the 'Hide Extra Contours' check box.

Adjusting Depth Areas for Tide



- Go to Display Options Window – Contour Planning tab.
- Enter the Tide
 - Negative if the water level is above gauge!
- Set ‘Adjust Contours to Tide’ to ‘On’.
- Click ‘Update’ to see the changes to the contour display.
- Click ‘Apply’ to see the changes in the chart display.

S57 Display Options

General Display | Contour Planning

Contour Planning Tool

Tide m (negative above gauge)

Keel Depth m

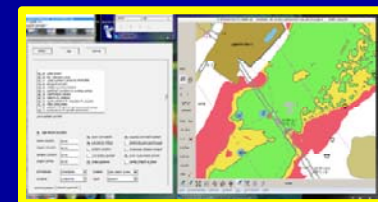
Safety Margin m

Ship Height m (above water line)

☐ Set Shallow Contour to Keel Depth and Safety Margin
Contour to Keel Depth plus Safety Margin

☒ Adjust Contours to Tide

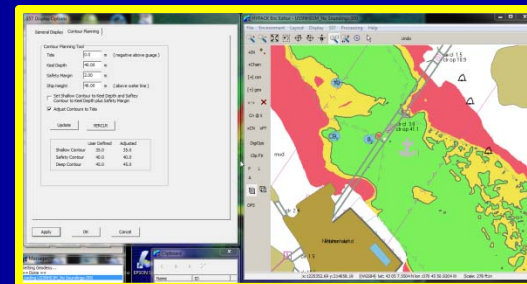
	User Defined	Adjusted
Shallow Contour	35.0	32.0
Safety Contour	40.0	37.0
Deep Contour	45.0	42.0



Adjusting Depth Areas for Keel Depth and Safety Margin



- Go to Display Options Window – Contour Planning tab.
- Enter the Keel Depth and Safety Margin.
- Check ‘Set Shallow Contour to Keel Depth....’ to ‘On’.
- Click ‘Update’ to see the changes to the contour display.
- Click ‘Apply’ to see the changes in the chart display.



VERCLR Search Results					
Feature	Name	VERCLR	VERCLR Adj...	Vessel Height	Difference
Cable, overhead	<missing>	16.4	15.9	33.0	-17.1
Bridge	<missing>	14.0	13.5	33.0	-19.5
Bridge	<missing>	10.0	9.5	33.0	-23.5
Bridge	<missing>	10.0	9.5	33.0	-23.5
Bridge	<missing>	10.0	9.5	33.0	-23.5
Bridge	<missing>	10.6	10.1	33.0	-22.9
Bridge	<missing>	1.5	1.0	33.0	-32.0
Bridge	<missing>	2.4	1.9	33.0	-31.1
Bridge	<missing>	14.0	13.5	33.0	-19.5
Bridge	<missing>	7.9	7.4	33.0	-25.6
Bridge	<missing>	2.7	2.2	33.0	-30.8
Bridge	<missing>	10.0	9.5	33.0	-23.5
Bridge	<missing>	1.5	1.0	33.0	-32.0
Bridge	<missing>	1.5	1.0	33.0	-32.0
Bridge	<missing>	3.3	2.8	33.0	-30.2

Close

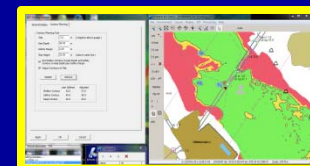
conditions.

Apply

OK

Cancel

AVI





- All features are standard in the HYPACK 2012 release.
- HYPACK will modify the HYPACK SURVEY program to have the same DYNAMIC ENC display in the coming months.