

Dredge Depths vs Channel Plan in the TIN Model Program

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Presenting your dredge data in a three dimensional view may help many of you see dredging progress versus your channel plan. This shows how much material is available above your channel template, as well as how much material has been removed from below it.

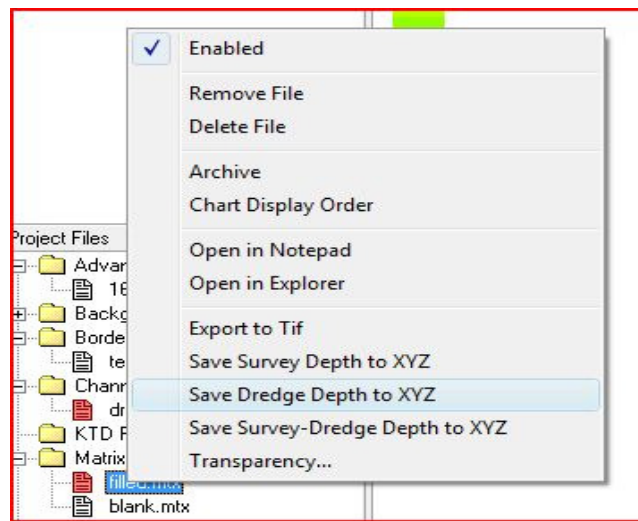
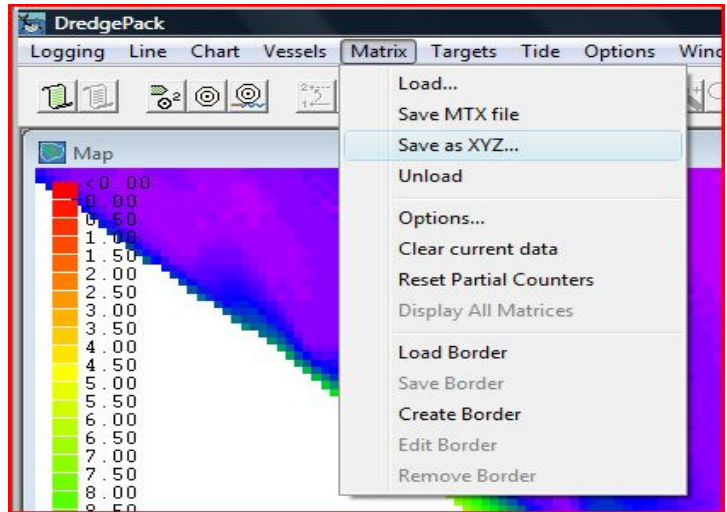
You can generate such a 3-D view in the TIN Model program using the depths recorded to the matrix in DREDGEPACK® and the Channel Plan (*.CHN) from Advanced Channel Design.

Saving your Dredge Depths to XYZ Format

Remember, each cell in your dredge matrix has two depth records—the survey depth and the dredge depth. The dredge depth is generated based on the depth of your cutting tool.

There are two methods you may use to extract the dredge depths from your matrix.

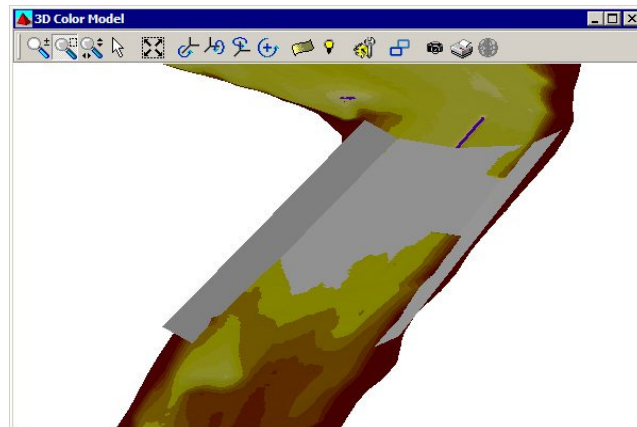
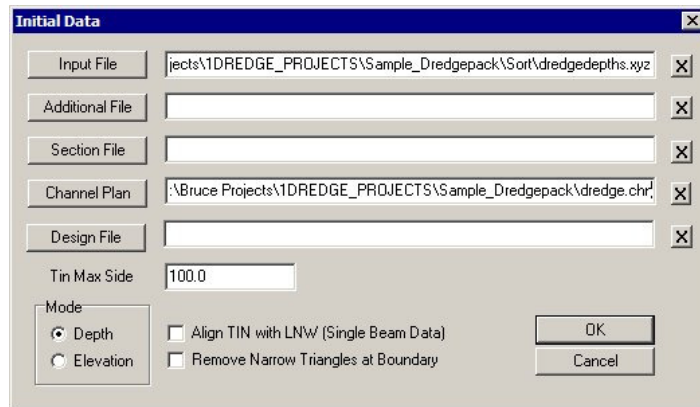
- In DREDGEPACK under the matrix menu, choose “Save as XYZ”.
- In HYPACK shell, right-click on your .MTX file and save dredge depth to XYZ.



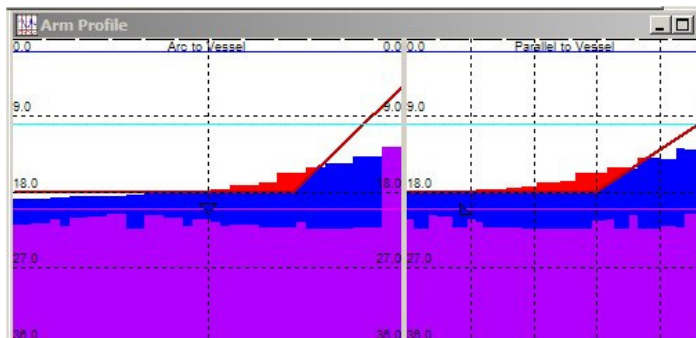
Viewing your Dredge Depths against your Channel Plan

To compare how your dredge work measures up to your channel template, you *can* load your channel file (*.CHN) into DREDGEPACK®, but that only allows you to see two dimensions at a time—either the top view in the Map window or the side view in the Profile window—both useful, but let's try a 3-dimensional view. DREDGEPACK® doesn't offer one, but we can make one in TIN MODEL.

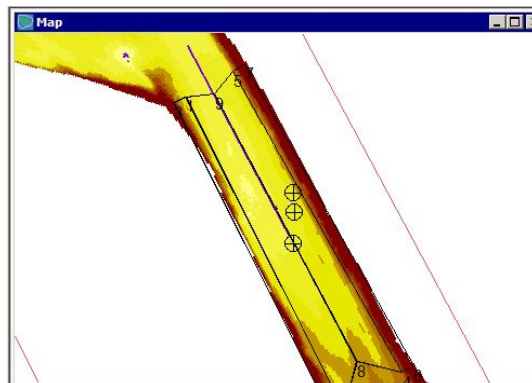
1. Open the TIN MODEL program.
2. In the Initial Data dialog, enter the following and click [OK].
 - Input File=Dredge Depths
 - TIN Max Side = a distance slightly greater than your dredge matrix cell size. This assures TIN MODEL will generate a model from your data.
 - Channel Plan=your channel template file, in this case, your *.CHN.
3. Draw a 3D TIN Model. This example shows the project's channel plan for the dredge area together with the 3D color model. Obviously, the upper part of the channel is almost entirely below grade, while there is more digging to do at lower end.



The following images show the same data in DREDGEPACK®.



Profile View



Map View