

Processing Seabed ID Information with the TIN Model Program

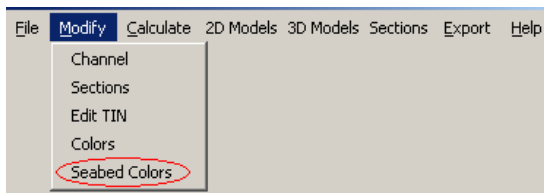
By Lazar Pevac

There are two ways to import data containing seabed ID information in TIN program.

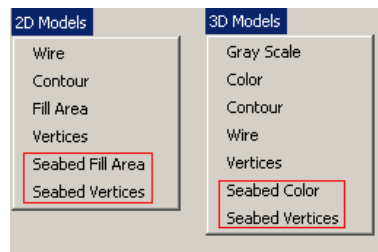
- **Using xyzID format file**, an ASCII data format that contains three decimal numbers (x, y, z) and an integer (seabed ID) per line.
- **Using a seabedID matrix**. Similar to a standard HYPACK® dredge matrix format, the seabed ID matrix is different in the matrix header—the first eight lines of the matrix file. The eighth line in the “sebadID matrix format” is 3 while the same line in the “dredge matrix format” is 2. Each data line in both formats has three values. The first two values are cell index and depth. The last value in the “sebadID matrix format” is the seabed ID.

To generate a TIN Model using your Seabed IDs:

1. **Complete the Initial Data dialog, using either an xyzID or appropriate matrix file as your input file.** You may not select an additional data file (second tin), but you can select section or channel file.
2. **Select a color scheme for seabed data.** You can easily export your seabed colors from the Seabed Statistics program to a HYPACK® color file (*.hcf)¹.



Modifying

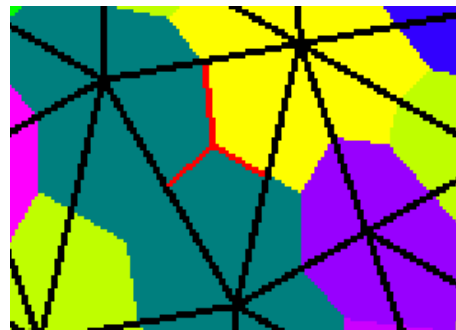


Displaying your TIN Models in Seabed Colors

Comment [JJB1]: What?

If the TIN Model program recognized the seabed ID data set successfully, you will see the following:

- You will be able to see your data in 2D and 3D. Each triangle is divided in three parts with the center weight point and midpoint of each segment. Each trapezoid has color associated to the triangle vertex.
- The seabed color menu item is located in “Modify” pull down menu.
- Export XYZ will give you an additional option to save data in xyzID format.



Seabed Color fills in the Seabed Color TIN Model

¹ In the Seabed Statistics program, select FILE-EXPORT ID SQUARE TO HYPACK® COLOR FILE and name the file.

- Matrix export will create an “seabedID matrix” automatically.
As with any TIN Model, you can print or save it to bmp/tif format.