

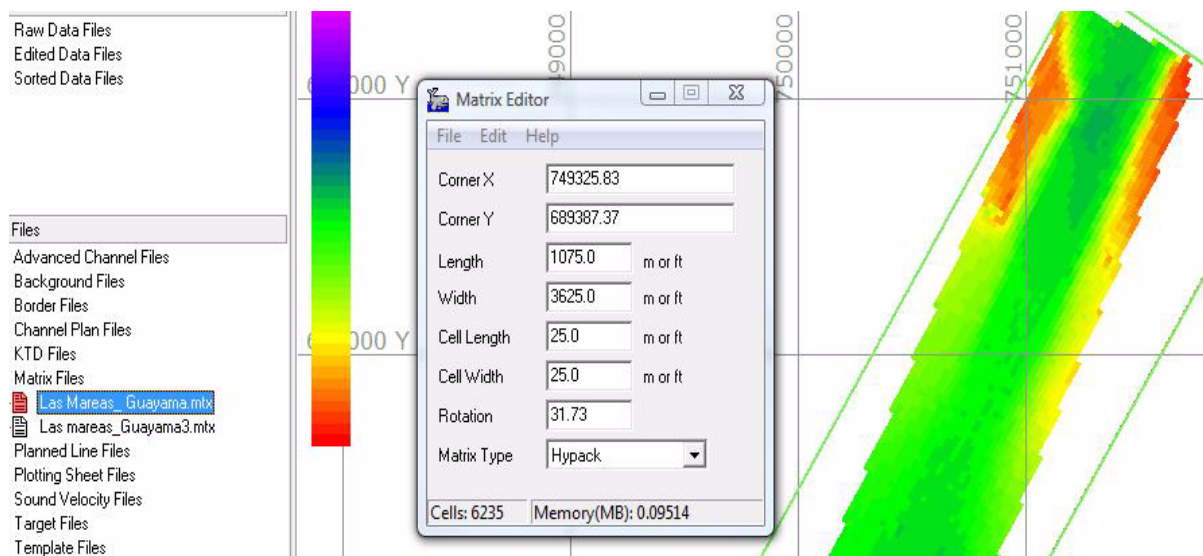


Adjusting Cell Size in a Filled Dredge Matrix

by Roy Goyette

In the following example we have a matrix file created with a 25 X 25 cell size/grid and the end user actually wants a cell size of 4 X 4. Our beginning matrix the cells already contain some dredging data but the end user realized after the fact that their cell size was way too large.

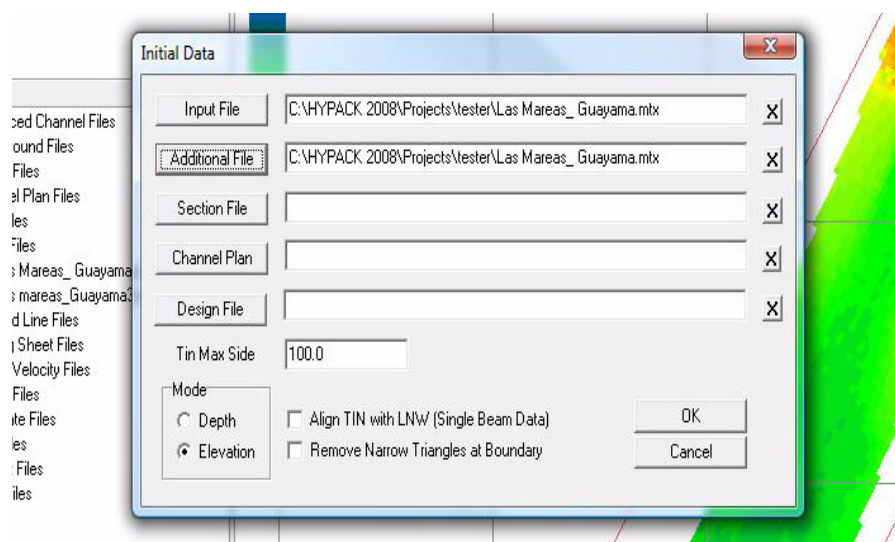
FIGURE 1. Original Matrix with cells 25 units square



To correct the matrix and adjust the cell size we can use the TIN MODEL program in HYPACK®.

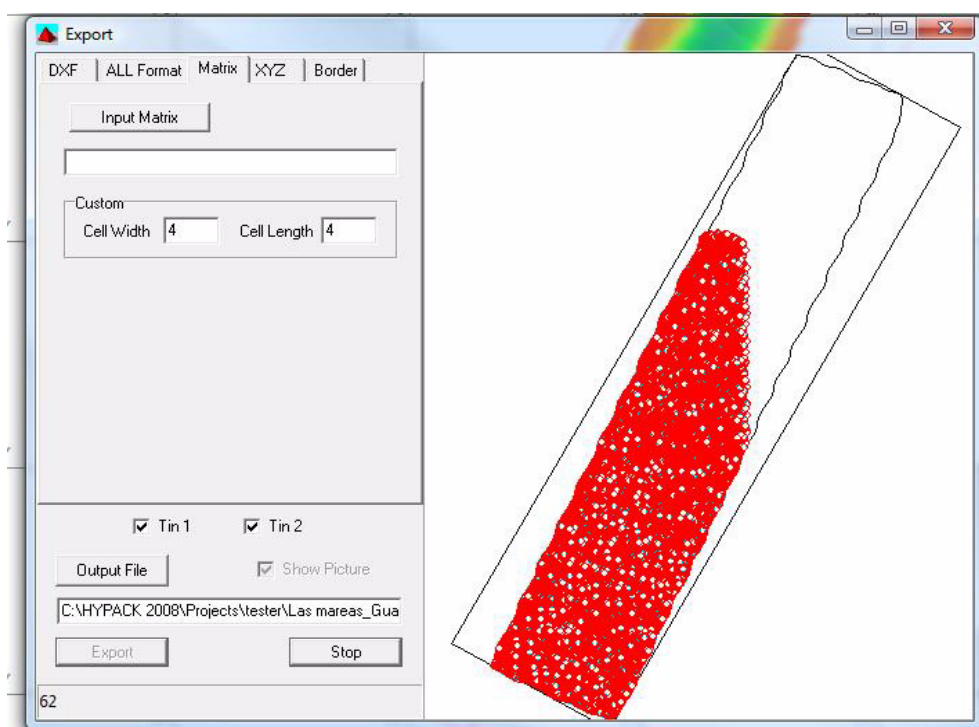
1. In the TIN MODEL program and **select FILE-NEW.**

FIGURE 2. Initial Data Dialog



2. **Click the Input File button and select the matrix you want to change** in the File Open dialog.
3. **In the same manner, load the same file in the Additional File field.**
4. **Enter an appropriate TIN Max Side**--for our example we'll use 100--and click OK.
5. **Export a Matrix with 4x4 cells.**
 - a. On the TIN Model menu bar, **select EXPORT-SELECT** and the Export dialog will open.
 - b. **Click on the Matrix tab.**
 - c. **Leave the Input Matrix field blank.**
 - d. Our intention was to change the cell size so **enter the new cell size in the Cell Width and Cell Length fields**. In our example we are decreasing the cell size from 25 x 25 to 4 x 4.
 - e. Since we are using two TIN models to get our final result, **check both TIN 1 and TIN 2 check boxes**.
 - f. **Name your output.** Click the Output File button, enter a name for your new matrix in the resulting dialog, and click Save.
 - g. **Click Export.** If the 'Show Picture' box is checked, a representation of the new matrix will build in the window to the right.

FIGURE 3. *Exporting to the New Matrix*



When exported matrix is complete, you will see the numerals 99 in the lower left-hand corner of the window. Close the window and the TIN MODEL program. The matrix file will be saved to your project folder will appear in the Matrix Folder in the main HYPACK Project Files list. Our final result looks exactly the same but as you can see the cell size is now 4 x 4.

FIGURE 4. The Resulting Matrix with 4 x 4 Cell Size

