

Merging Two Dredge Matrices

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You have multiple matrix files, each covering a different part of the same dredge area and you want to combine them into one matrix.

This process has many steps. We recommend that you make some backup copies of your data files before attempting this process.

1. **Create a zero-filled matrix that covers the areas covered by the matrices to be merged.**
 - a. Launch the Matrix Editor by selecting Prepartation-Editors-Matrix Editor.
 - b. Adjust the matrix border to cover the required area.
 - c. Select File-Save Filled Matrix. The Matrix Editor will pop up a dialog requesting a depth value with which to fill the matrix. Zero is a valid value for this dialog.
 - d. Enter '0' and click [OK].
2. **Extract the XYZ data from the matrix files that you want to merge.** For each file, do the following:
 - a. Right-click on one of the matrices and choose 'Save Dredge Depth to XYZ'.
 - b. Give your XYZ a file name and save it.
3. **Merge your XYZ data.**
 - a. Select Final Products-Export.
 - b. Enable the two XYZ files created in step 2. (Enabled files appear in red). Be sure no other files are enabled.
 - c. Click once in the Format field and, using the drop-down to the right, select XYZ as your output file type.
 - d. Click in the Name field then on the yellow folder to its right and give your output file a name.
 - e. Click [Options] and 'XYZ Output Parameters', then enter the settings for your XYZ output.
 - f. Click [Convert].
4. **Merge the XYZ data into the zero-filled matrix from step 1.**
 - a. Select Processing-Sounding Selection-Mapper, and the Mapper program will open up.
 - b. Select File-Open Matrix, and a dialog will open for you to select the zero-filled matrix created in step 1.
 - c. Under 'Load Soundings From Matrix', select the 'Yes' radio button.
 - d. Under 'Select' choose the 'Survey Data' option.
 - e. Click [Update with XYZ File] and select the merged XYZ file you created in Export.
 - f. Click [OK] and the Mapper program will merge the XYZ data into your blank matrix as survey data.

You should now be able to display the data fully-merged into one matrix on your main HYPACK® screen. (Right-click on the Matrix Files folder and select 'Display Survey Data'.)

To copy the data from the 'as surveyed' data to the 'as dredged' data, you must load the matrix into DREDGEPACK® and record at least one cell's worth of data.

Note: When you first go into DREDGEPACK® it will appear as though the matrix doesn't exist (unless you are showing survey data) but, once you record a depth in one cell, the survey data will be copied to the 'as dredged' data and your previously recorded matrix information will show up.
