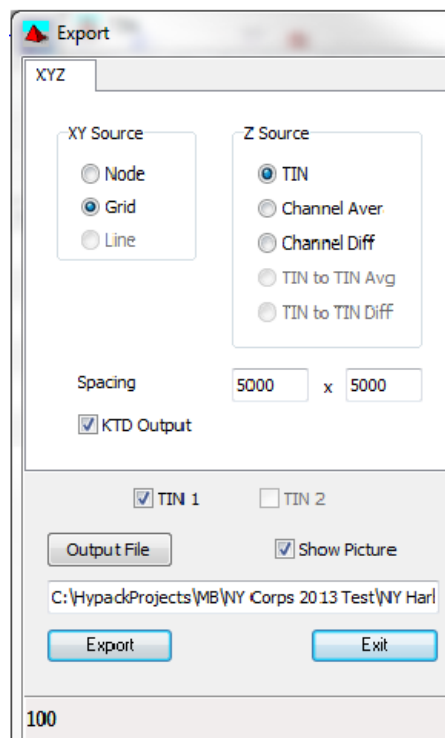
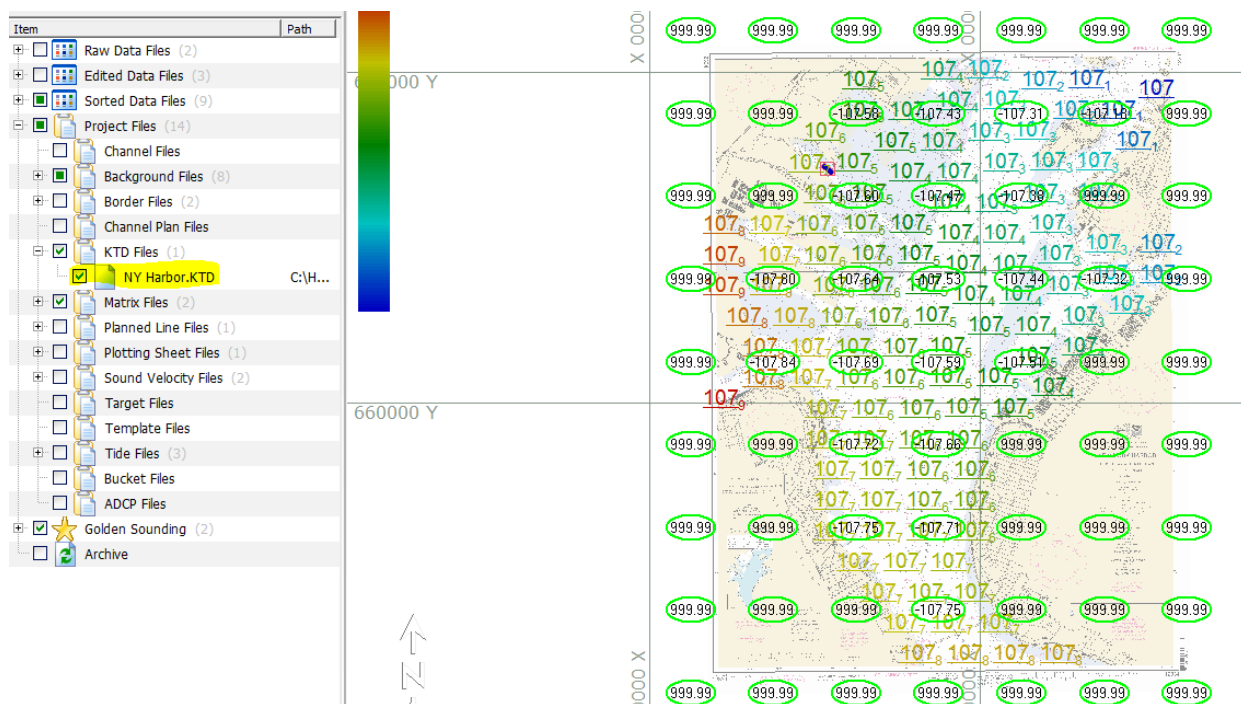


FIGURE 2. My KTD Output Parameters



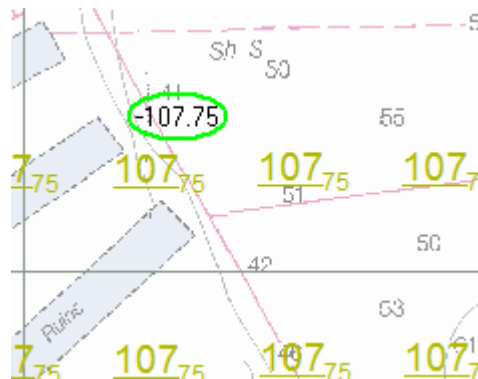
The HYPACK® Shell automatically adds the newly created KTD file under the KTD FILES folder. If you enable the KTD file you can display the KTD grid on a map screen as I did shown in Figure 3:

FIGURE 3. KTD Grid in the HYPACK® Area Map



Zoom in a bit while also displaying your original XYZ points and you will notice that they match perfectly!

FIGURE 4. TIN Grid Output vs Original Soundings



To maintain a rectangular grid, TIN MODEL populates grid values outside your original dataset with “999.99” values. This way you immediately know you are outside the original separation area.

FIGURE 5. KTD Values of 999.99 Indicate Locations Outside the Original Separation Data Set

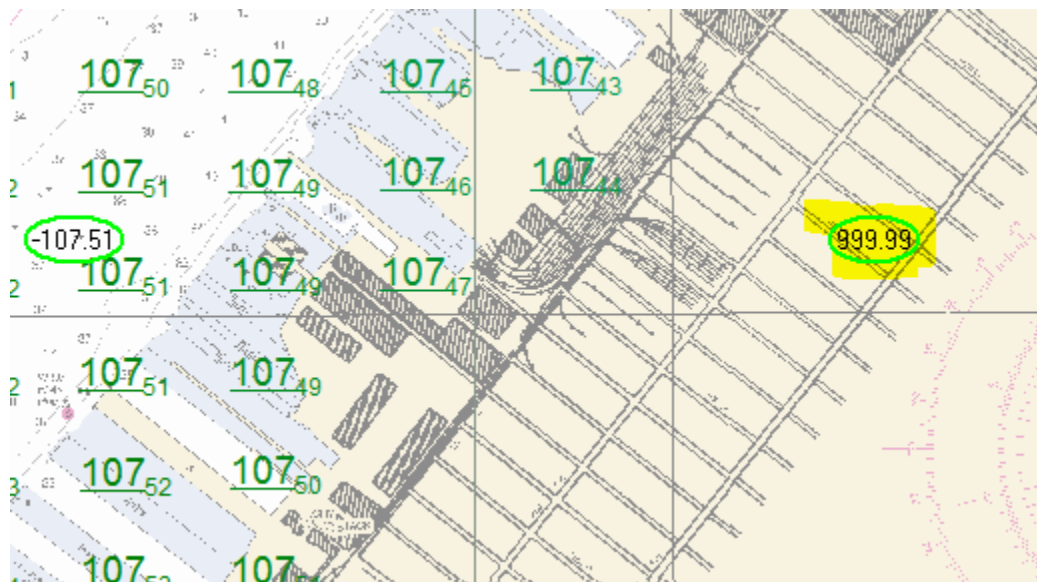


Figure 6 is the newly created KTD file loaded into the KTD TIDE EDITOR program. Notice the separation values and the dummy points. Imagine having to manually enter a much larger gridded area!

FIGURE 6. KTD File in the KTD TIDE EDITOR

The screenshot shows the 'KTD File Editor - NY Harbor.KTD' window. On the left, there are controls for 'X Divisions' (set to 7), 'Min X' (602500), 'Max X' (632500), 'Y Divisions' (set to 9), and 'Y' (set to 9). The main area is a table with columns for X coordinates (602500 (x), 607500 (x), 612500 (x), 617500 (x), 622500 (x), 627500 (x), 632500 (x)) and rows for Y coordinates (642500 (y), 647500 (y), 652500 (y), 657500 (y), 662500 (y), 667500 (y), 672500 (y), 677500 (y), 682500 (y)). The table contains numerical values representing separation, with many cells containing '999.99' and some containing negative values like -107.75, -107.71, -107.72, -107.66, -107.59, -107.51, -107.53, -107.44, -107.32, -107.38, -107.31, -107.18, -107.84, -107.69, -107.64, -107.60, -107.58, -107.43.

	602500 (x)	607500 (x)	612500 (x)	617500 (x)	622500 (x)	627500 (x)	632500 (x)
642500 (y)	999.99	999.99	999.99	999.99	999.99	999.99	999.99
647500 (y)	999.99	999.99	999.99	-107.75	999.99	999.99	999.99
652500 (y)	999.99	999.99	-107.75	-107.71	999.99	999.99	999.99
657500 (y)	999.99	999.99	-107.72	-107.66	999.99	999.99	999.99
662500 (y)	999.99	-107.84	-107.69	-107.59	-107.51	999.99	999.99
667500 (y)	999.99	-107.80	-107.64	-107.53	-107.44	-107.32	999.99
672500 (y)	999.99	999.99	-107.60	-107.47	-107.38	999.99	999.99
677500 (y)	999.99	999.99	-107.58	-107.43	-107.31	-107.18	999.99
682500 (y)	999.99	999.99	999.99	999.99	999.99	999.99	999.99

Note: A word of caution! *It is not necessary to make a very dense grid!* Most KTD files I have seen are spaced at a minimum of 1000m x 1000m grid. The KTD TIDE EDITOR can handle a maximum of 500 X divisions and 500 Y divisions. If you insist on creating a very dense grid, keep this in mind and create a series of XYZ files covering smaller areas.

This feature was not available as of the HYPACK® 2014 release, but will be available for download shortly. You can also contact the HYPACK Support Department, who would be happy to email you a copy of this TIN MODEL version.