



ENC EDITOR: New Orleans Sounding Overlays

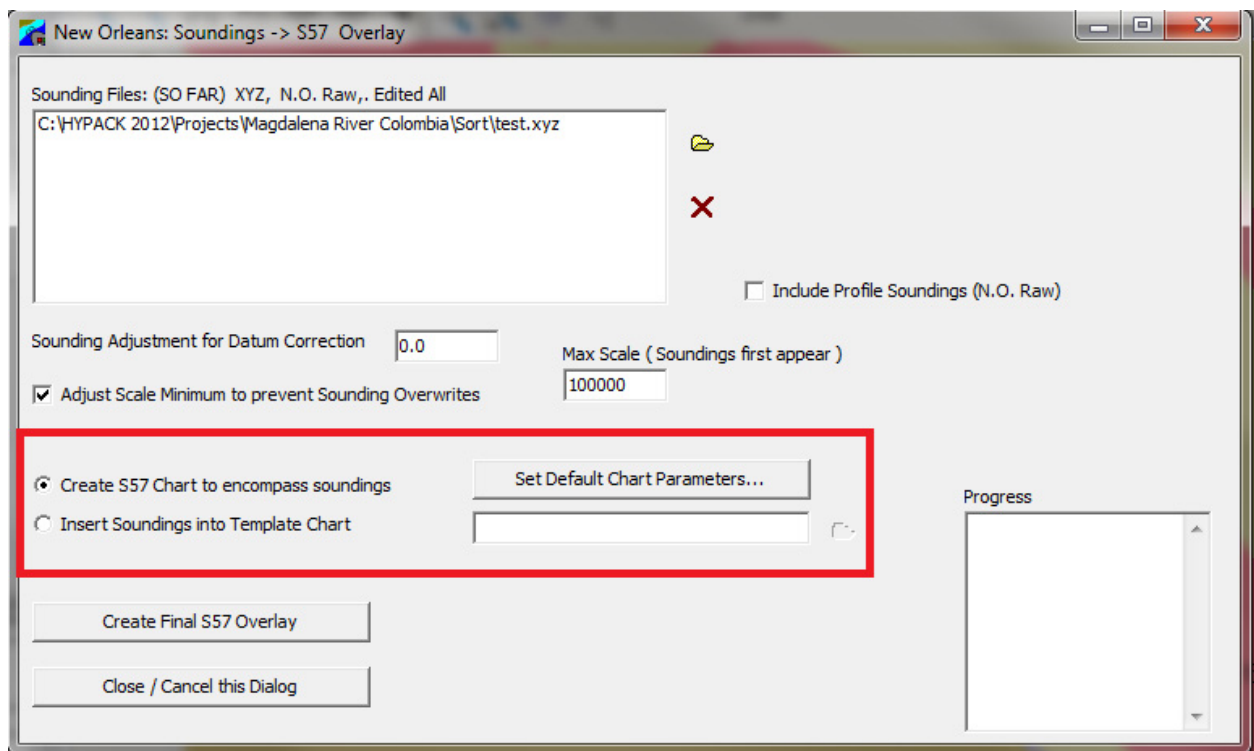
by Pat Sanders

Inside the ENC EDITOR, the New Orleans Sounding Overlay (PROCESSING-NEW ORLEANS OVERLAY) allows you to:

- Create a separate S-57 file with just the imported soundings.
- Merge the imported soundings with features from an existing S-57 file and save the results to a new file.

CREATING A SEPARATE S-57 FILE:

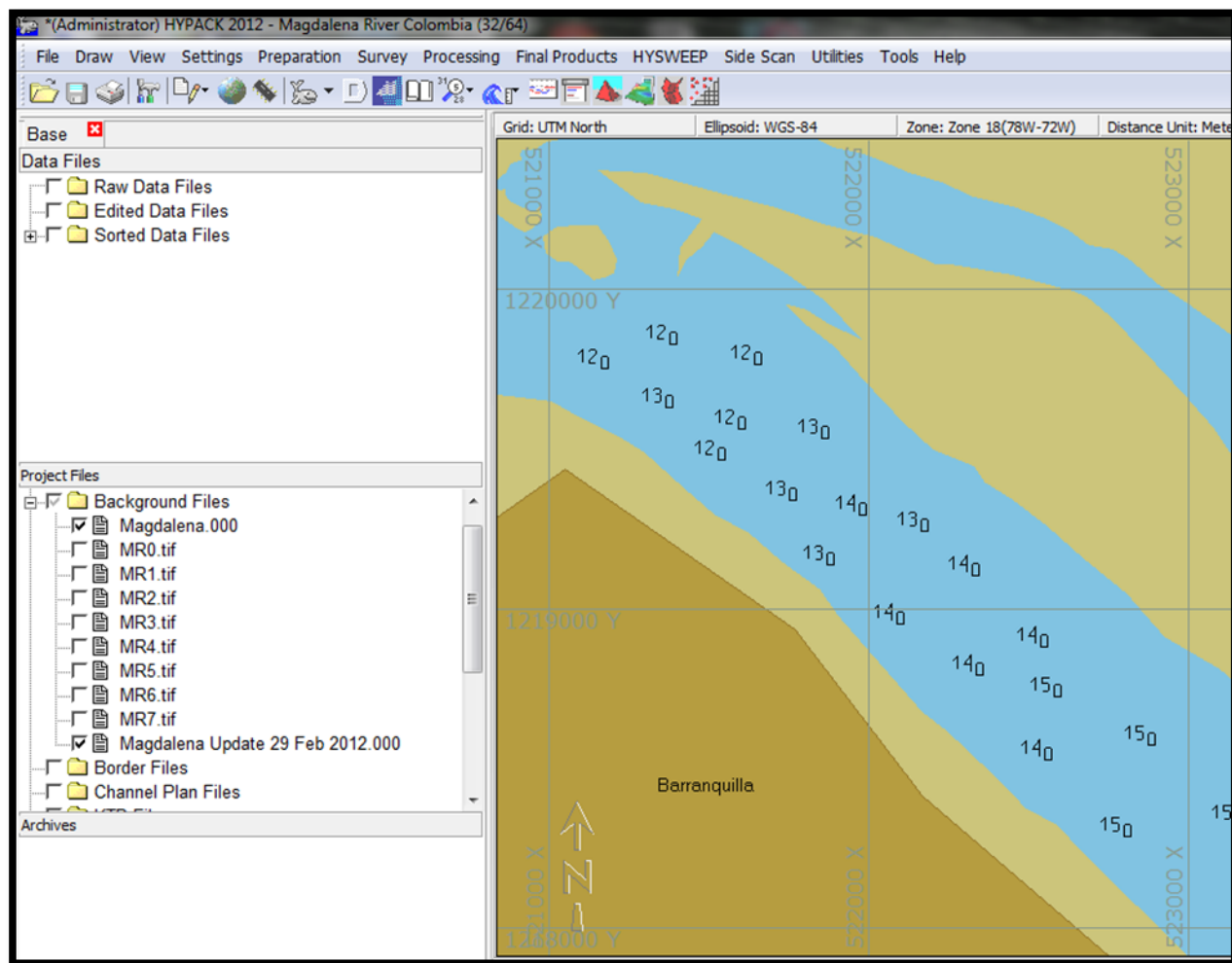
FIGURE 1. New Orleans Overlay Dialog



1. **Select the sounding file(s) you would like to convert.** These files should be gridded or reduced so that they don't plot on top of each other.
2. **Check the 'Create S57 Chart to encompass soundings' option.**
3. **Click the 'Create Final S57 Overlay' menu item.** You'll be asked to provide a filename for a new S-57 file. This S-57 file will contain just the soundings from the sounding files.
4. **Give a file name that reflects the place and the date of the soundings.** For example, 'MagdalenaRiver 29Feb2012.000'. You want to use the '000' extension as this is not an update file that will be applied to another file.

Back in the HYPACK® SHELL, you can then display both the base S-57 chart (without soundings) and the S-57 Sounding Overlay file you have just created.

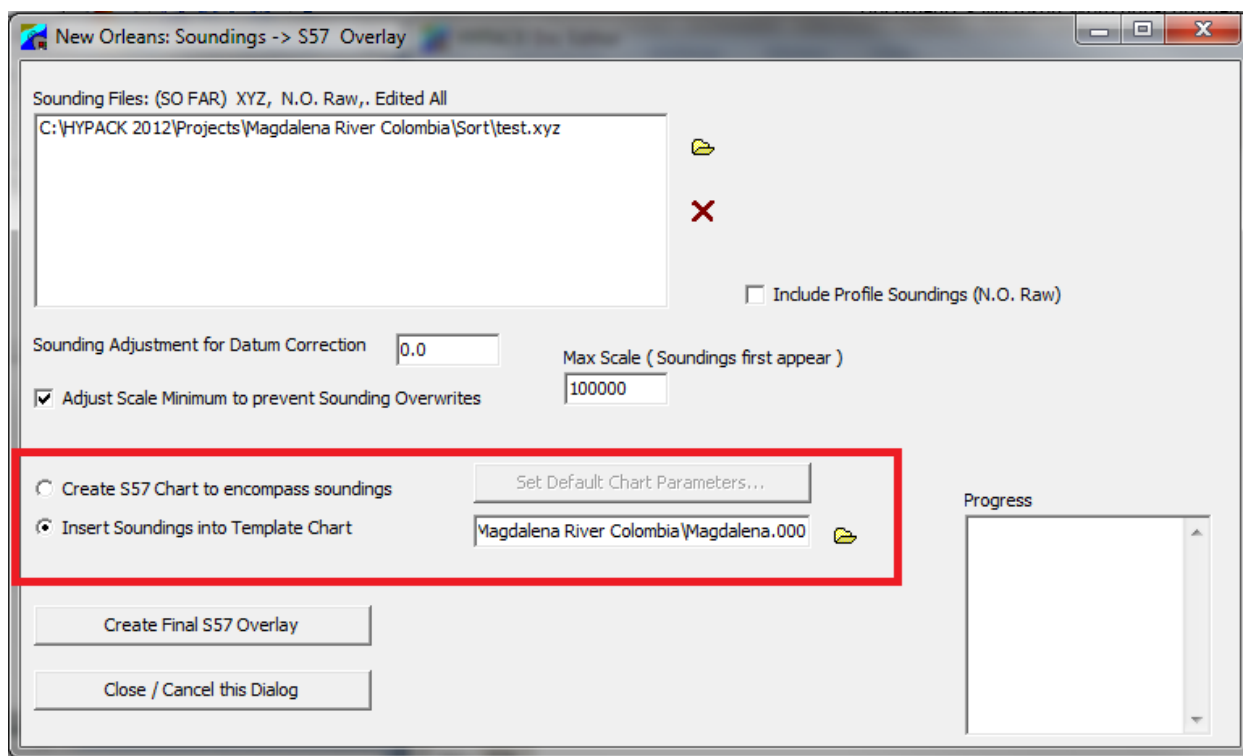
FIGURE 2. Display of Base S-57 chart (Magdalena.000) with Soundings in an Overlay File (Magdalena Update 29 Feb 2012.000)



MERGING SOUNDING FILES WITH BASE S-57 CHART

In the second import option, I want to take my list of sounding files and combine them with an existing S-57 chart. I will then save the combined information to a new S-57 update chart. That way, your base chart is always unchanged and you can output a chart at any time with the latest soundings by repeating this method.

FIGURE 3. Generating an S-57 Update Chart



We'll use the same New Orleans Sounding Overlay routine. This time, after entering our sounding files (top left), we'll check 'Insert Soundings into Template Chart'.

Note: Don't bother to load an S-57 file in the ENC EDITOR. Just go directly to the New Orleans Overlay menu item.

1. **Enter your sounding file(s).** In this example, I have entered a single XYZ file (Test.xyz)
2. **Check the 'Insert Soundings into Template Chart' option.**
3. **Enter the name of your Base Chart.** In this case, I have entered the Magdalena.000 chart.

Note: You *cannot* have the same base chart loaded in the ENC EDITOR when trying to access it as your base chart!

4. **Click [Create Final S57 Overlay].**
5. **Provide a file name for the new S-57 file.** This file will contain all of the features of your base chart, plus the data from the sounding files in a single chart. A name that would be appropriate would contain the location and date the soundings were created. For example, 'Magdalena River with Soundings from 29 Feb 2012.000'.
I named mine 'PatandBill.000'! Not a very good name. Viewing it in the HYPACK® SHELL (Figure 4), I see all the features of the base chart (Magdalena.000, currently disabled) along with the soundings from my XYZ file.

FIGURE 4. The Composite Chart Based on the Base Chart and the XYZ Soundings

