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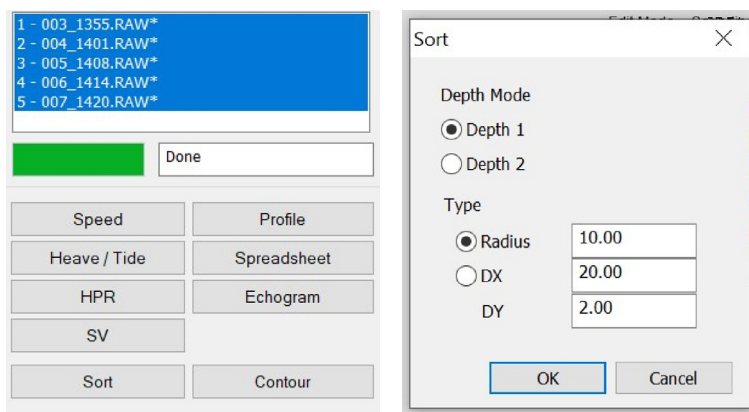
Sorting and Contouring in SBMAX64

By Jocelyn Kane

In the HYPACK 2022 version, you are now able to create and edit Sort and Contour files in SBMAX64. The new functionality is similar to that of Sort and Contour in the Magnetometer Editor and is designed to streamline the process from survey data to Sort and Contour data.

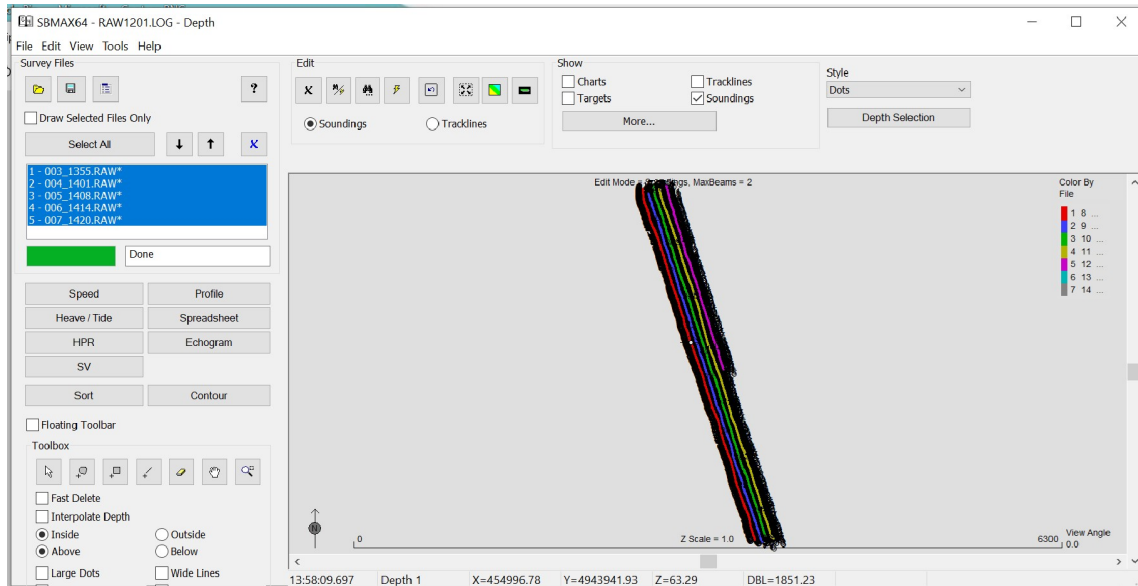
Accessible in two ways after you have loaded a survey, either by clicking the Sort button on the left-side panel or via the File->Sort menu, a dialog box allows you to pick what settings you would like to use. The options include picking which depth you would like to use and whether you want to sort based on a radius or DX & DY. Additionally, if you have opened the project before then, your previous settings will be loaded upon opening the dialog.

FIGURE 1. (Left) Sort and Contour Buttons, (Right) Sort Dialog Box



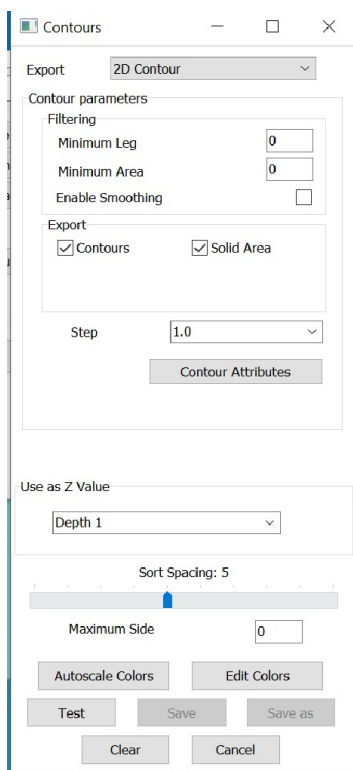
Once “OK” is selected, and you have chosen a file name for the XYZ data, the newly created sort file will be drawn in the window.

FIGURE 2. Sample Sort Chart After Being Drawn



The program allows you to change your sort file as many times as you would like, and if at any time you no longer want the drawing to be visible, simply click the check box next to "Sort" in the dropdown in the "Show" section of the editor bar at the top. Rechecking the box makes the drawing visible again.

FIGURE 3. Contour Dialog Box Settings



If you would like to create a contour file you are able to go straight to the final step without having to take the time to create a sort file separately. Navigate to the File->Contour menu or click the Contour button and the Contour dialog box will be shown.

The pop up allows you to adjust settings such as the color file, the Sort Distance, and the type of contour. Change the settings so they fit your requirements, click "Test", and the window will show your contour chart. Since other information, like soundings, are drawn on top, if they are blocking your view of the contours simply uncheck the button for them in the editor bar. Switch the settings and test the contour until the chart shows the data as you would like it to, and then click "Save" or "Save As" if you want to choose the name of the DXF file.

As was the case with Sort, you can change the contour file infinite times. There is also a "Contour" check box in the "Show" section of the editor box to toggle viewing the drawing, and once you have created the contour file, since a sort file was created in the process, you can click the "Sort" button to see it as well.

FIGURE 4. (Left) Contour Chart, (Right) Solid Area Contour Chart

