

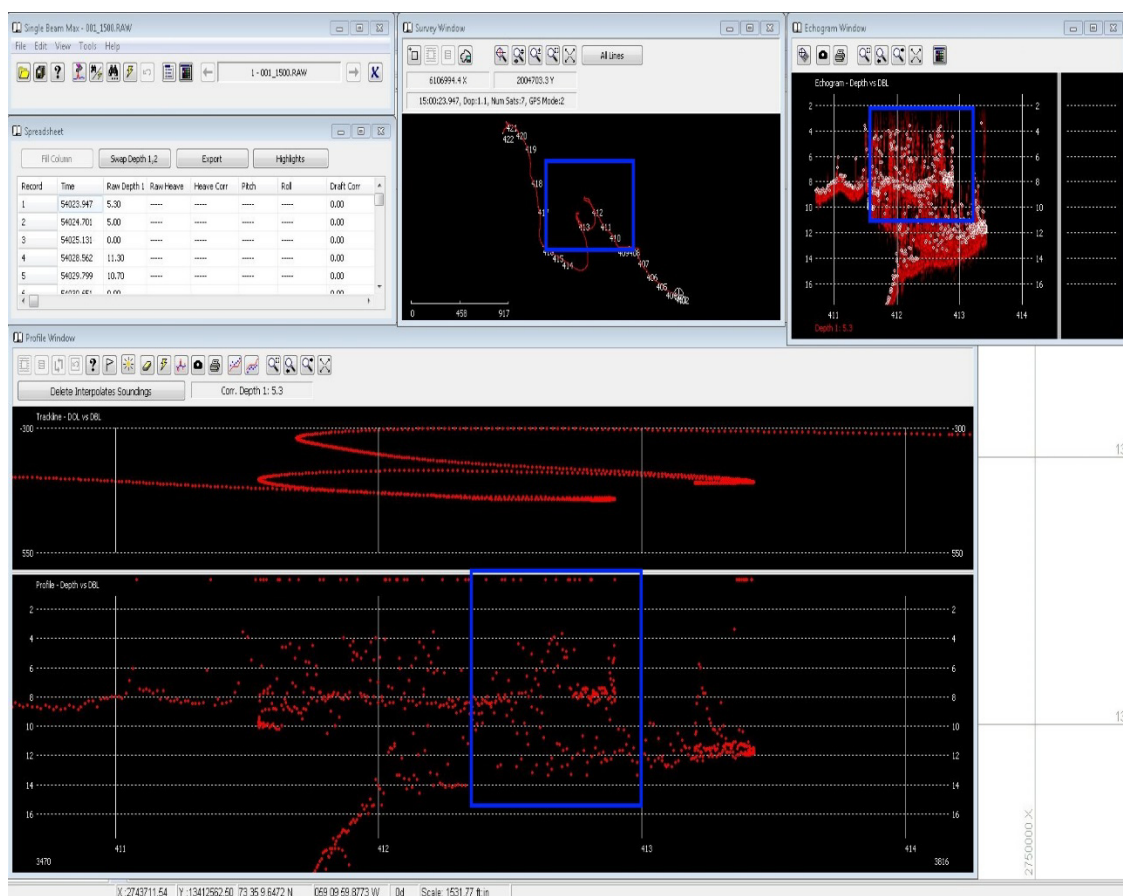


Depth vs Distance or Time in the SINGLE BEAM EDITOR

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Recently, a call came into our support group from a client who was having a difficult time editing some single beam data. The issue was that, while using the echogram and profile windows in SBMax (SINGLE BEAM EDITOR) and digitizing the bottom, the depths were stacking up on top of each other and making it most difficult to determine the true bottom contour. What appears to have occurred was that the survey vessel had trouble running this particular line, and had turned back on itself more than once before completing the survey line. Figure 1 depicts the effect of the boat returning over a previously run part of the line on the collected data when displayed in the view Depth vs. Distance in the SINGLE BEAM EDITOR.

FIGURE 1. Survey Data in SINGLE BEAM EDITOR for Non-linear Track Lines



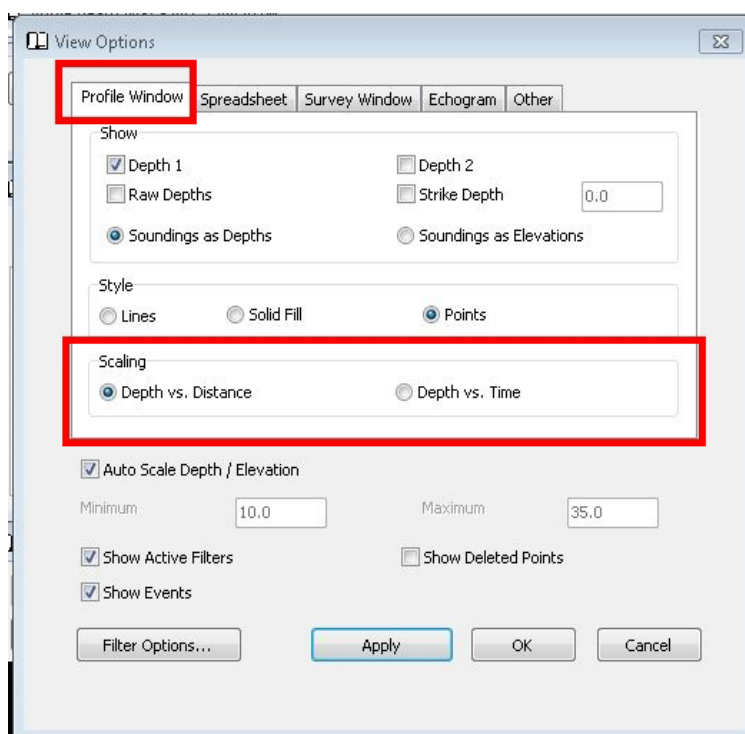
In the highlighted boxes, you can clearly see how the depth points fall on top of one another based upon the track of the boat. This is also illustrated in the Echogram window. In the Survey window, it is clear to see the path of the boat and the trouble area while logging data. With a vessel track of this kind, the display set for Depth vs. Distance would make it very difficult to identify the correct depth at each position without manually going point-by-point

using the Spreadsheet window. This would prove very time consuming when, in fact, there is a much easier way to go about handling this type of collected data.

The SINGLE BEAM EDITOR can scale and display data either by Depth vs. Distance or Depth vs. Time. In this case, viewing the data using Depth vs. Time will eliminate the depth points stacking on top of each other as the Profile window will display the depths based upon the time collected as opposed to the distance along the line. To change the view in the Profile window as well as the Echogram window, it's only the matter of a few clicks:

1. **Open the View Options dialog.** In the SINGLE BEAM EDITOR menu, select VIEW-OPTIONS (F9). In the Options dialog, you can see the options where you can choose between Depth vs. Distance and Depth vs. Time.

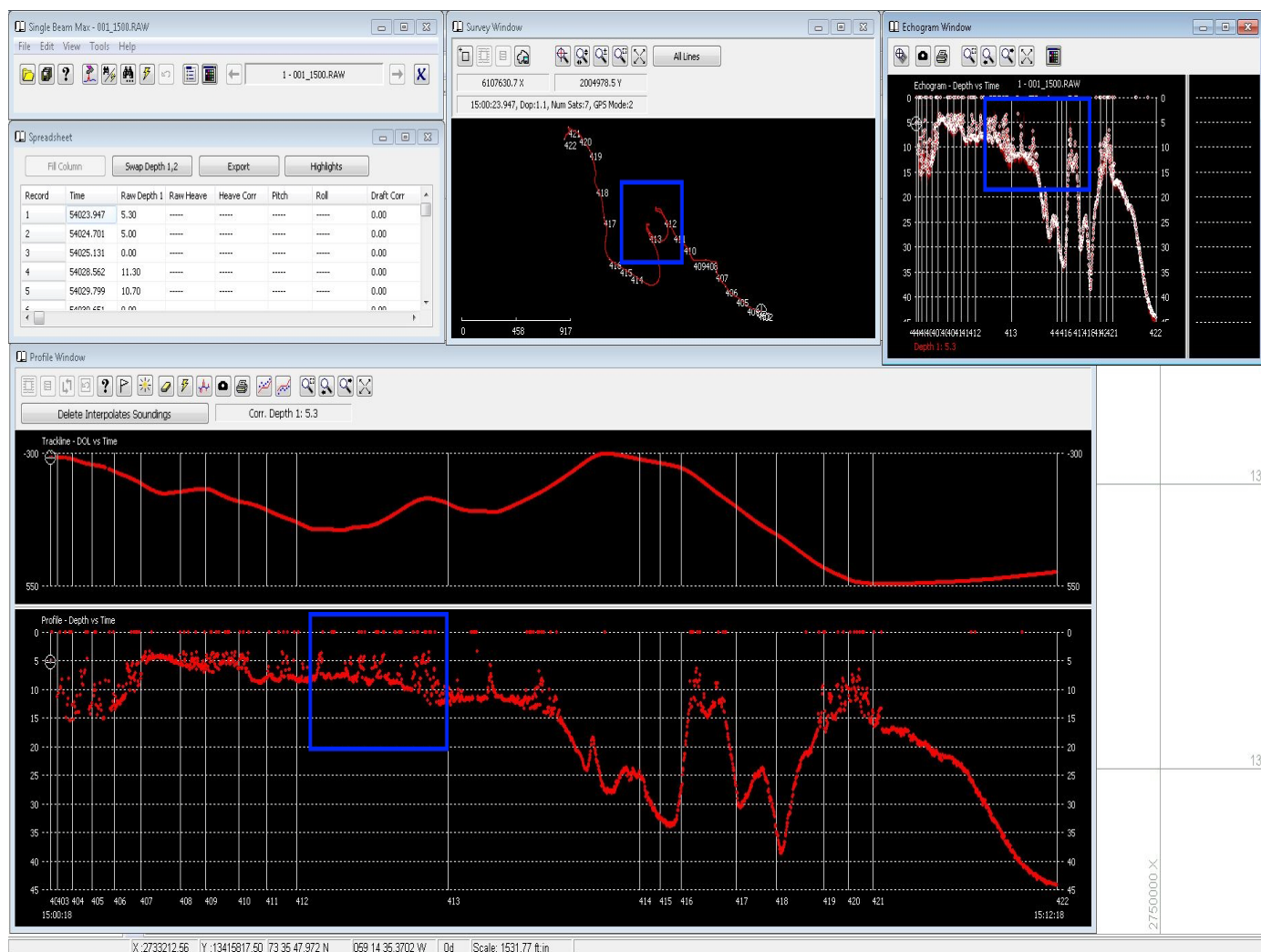
FIGURE 2. Choosing Depth vs Distance or Depth vs Time in the Options Dialog.



2. **Select your scaling option.** In this case, simply select Depth vs. Time.
3. **Click [Apply] then [OK].**

The resulting display change will certainly make the work of removing unwanted depth points much easier as the view will show the data scaled based upon time collected (Figure 3).

FIGURE 3. Display Set to Scale Distance vs. Time



The highlighted boxes within this capture represent the same areas of data as in the previous profile view, it is clear to see now that editing the depth points will be much easier to accomplish. All edits which are made while in this view will be reflected regardless of the view chosen, so you can swap between views to best edit your survey. Should you have any questions regarding the view choices within SINGLE BEAM EDITOR please feel free to email help@HYPACK.com for further information.