



An Update on Binning Data

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When you think outside the box, it sometimes makes sense. (Perhaps it always makes sense, and we don't take advantage of it.)

Over the past few years, interferometry has gathered momentum, promoting the case that these systems can have 1000's of samples per ping. More data.... More data! But do we really need it? Do we need to sample every cm of the seafloor to determine the depth? Why not just take good points from each ping, and use that?

A recent addition to one system does just that and the HSX CONVERTER can take advantage of it. The program can handle a new JSF format (rev3) that has data points *already binned*! So rather than MBMAX (HYSWEEP® EDITOR) binning the data based upon average, intensity or some other fixed amount of binning, the manufacturer, who knows a lot more of the data and system, says "Here's the data. We got rid of points we think are bad, and now you can process it in MBMAX." This is actually a really good idea.

We'll add this update to HYSWEEP® SURVEY shortly and, while logging the data, the HSX file will now hold only these points.

MBMAX can process any data set. But, if there is information that can be used during acquisition that better decides the good points, binning on that end is better. The file sizes are smaller and processing is quicker (with the thought that outliers are generally removed).

In the converter, a small check box in the binning options is selected to enable this process.

(The previous point method is still there, and the system can still provide you with all the points. This is just one new option that can be selected).

FIGURE 1. Accepting JSF Binning (left), Resulting HSX in the 64-bit HYSWEEP® EDITOR (right)



