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Sounding Better!

SBMAX64 Updates for 2018

By John Lindberg

SBMAX64 (64-bit SINGLE BEAM EDITOR) made its debut in HYPACK® 2017. The initial version of SBMAX64 was somewhat a “bare bones” program, meaning it was still missing many of the features of its predecessor. As an eventual successor to SBMAX (our 32-bit Single Beam Editor), it has been a main focus to add and improve many of these features. In HYPACK® 2017a, we added the Echogram window, file overlays, templates and a new Flow window for the SonTek M9. In this article, I’ll highlight some of the new features added for HYPACK® 2018.

FLAGS AND INTERPOLATED POINTS

Since SBMAX64 was based on MBMAX64, the 64-bit multibeam editor, it never had the function to interpolate. Simply check the INTERPOLATE DEPTH box in the floating toolbar and the soundings highlighted or within a block will be interpolated rather than deleted.

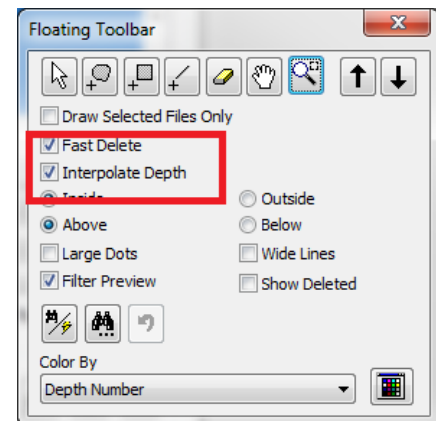
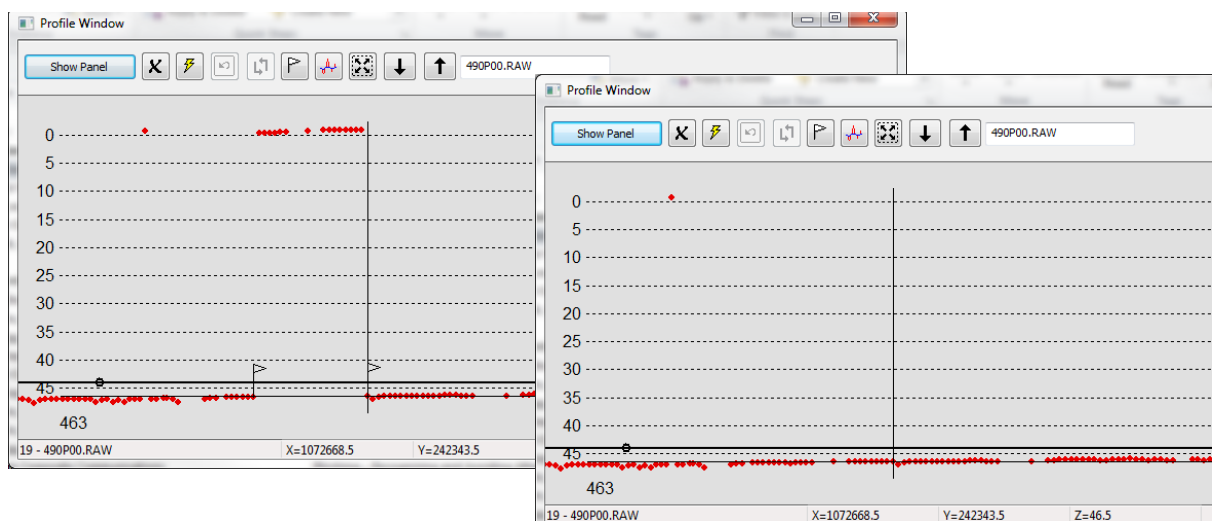


FIGURE 1. An Interpolation Example Using the Flags in the Profile Window—Before (left) and After (right)



INSERTING POINTS

In this example, there is a gap in the data.

FIGURE 2. Data Gap

1. Highlight a sounding next to the gap and select EDIT – INSERT POINTS.
2. Enter the number of points you want to add, whether you want to interpolate those points, and whether to insert the extra points before or after the highlighted sounding.
3. Click [OK] and those extra points will be inserted at the location you selected.

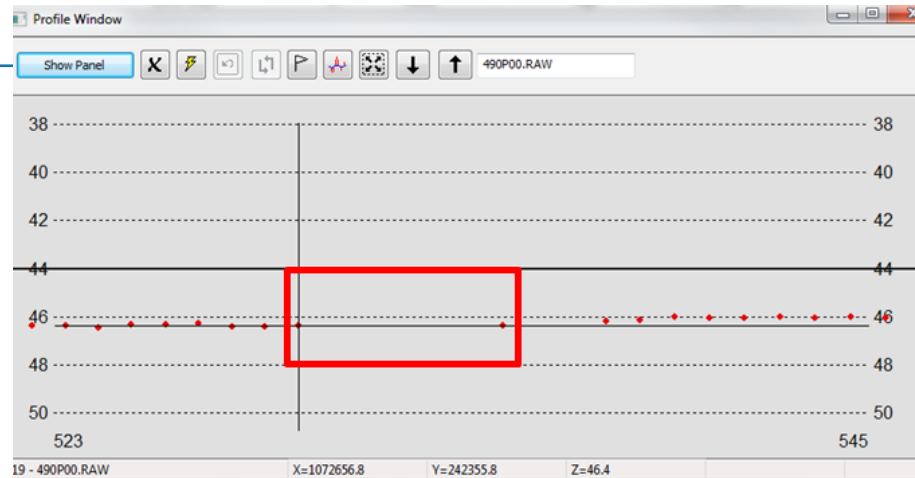


FIGURE 3. Entering the Insert Point Parameters

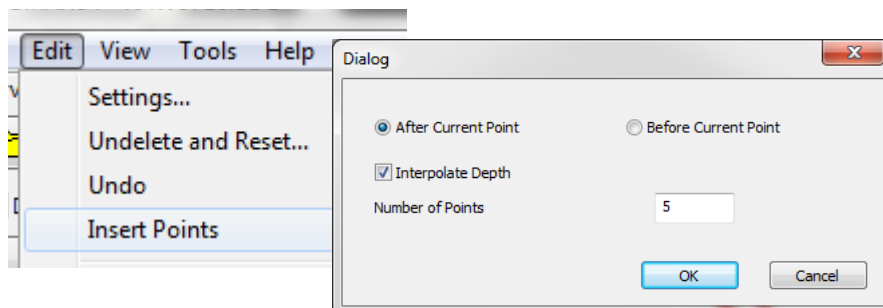
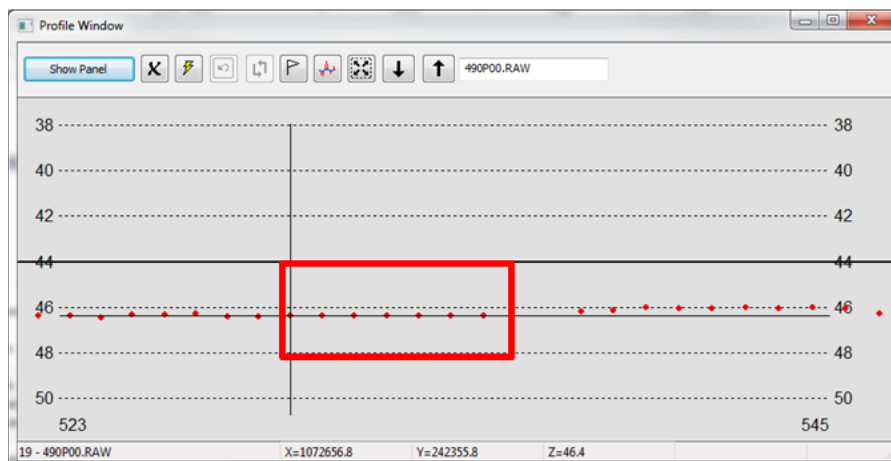


FIGURE 4. Data Gap Filled with Interpolated Points

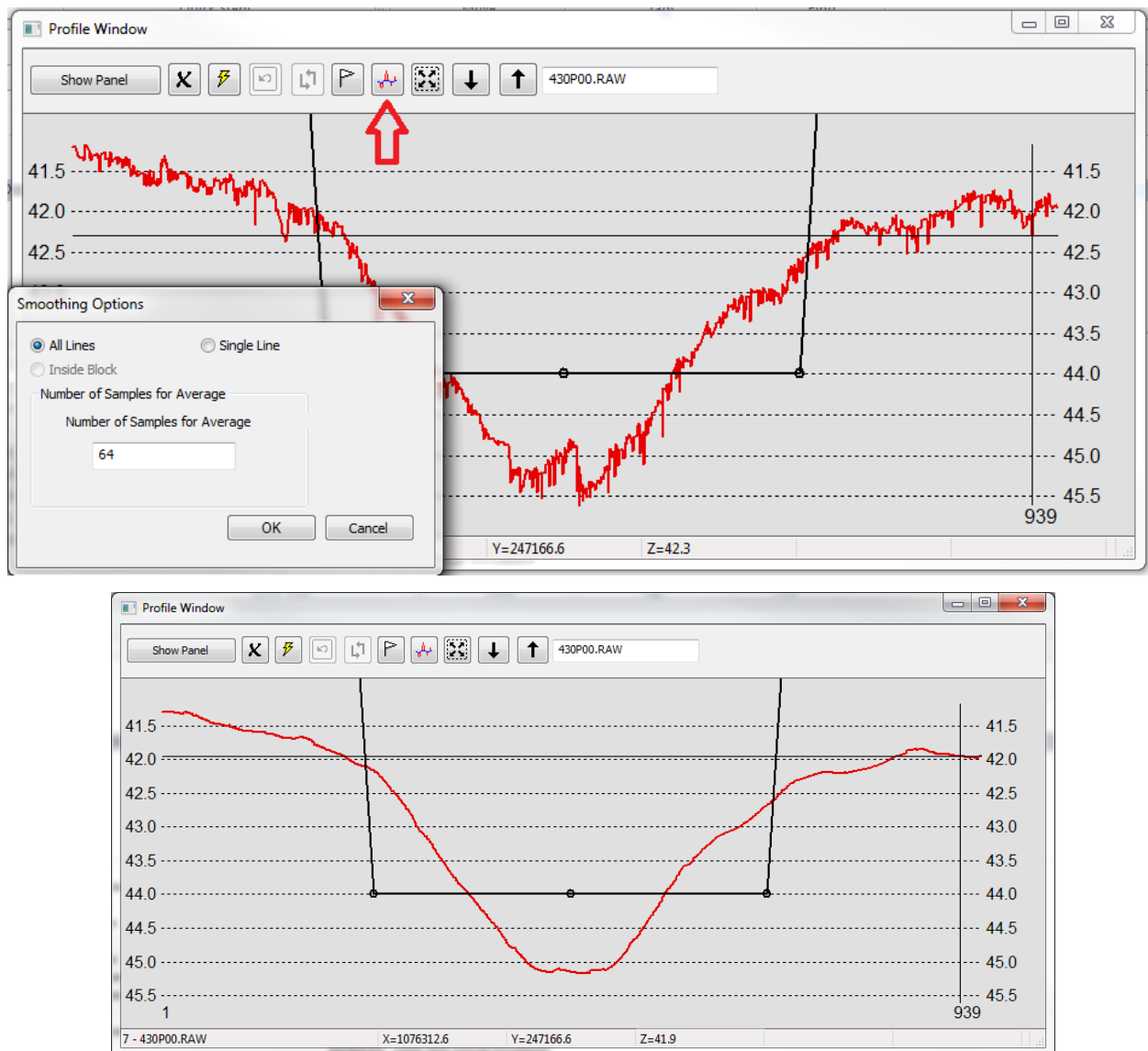


SMOOTHING

Do you want to make your sounding data look better than it actually is!? Try the smoothing options.

1. Click the Smoothing icon in the Profile window.
2. Choose the current line or the entire data set, and enter the number of samples for averaging.
3. Click [OK] and voila! Completely fabricated data!!

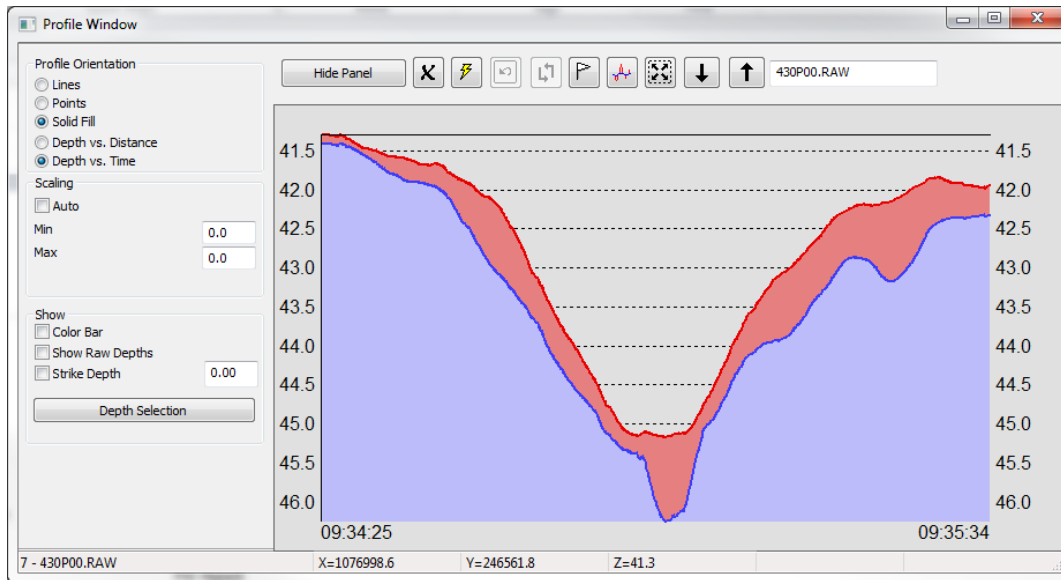
FIGURE 5. Smoothing Data—Before (top) and After (bottom)



SOLID FILLS IN PROFILE WINDOW

A little eye candy goes a long way! Choose the Solid Fill option in the Profile window and you can get a nice looking profile display.

FIGURE 6. Solid Fill Profiles



OTHER HIGHLIGHTS

- Remembering window locations
- Digitizing in the echogram by dragging the mouse
- Multiple undos
- Improved interaction between windows
- Numerous bug fixes

This version will be available in the HYPACK® 2018 release, but if you're interested in an evaluation copy of SBMAX64, email me (john@hypack.com) and I would be happy to provide you a copy. Let me know what you think!