



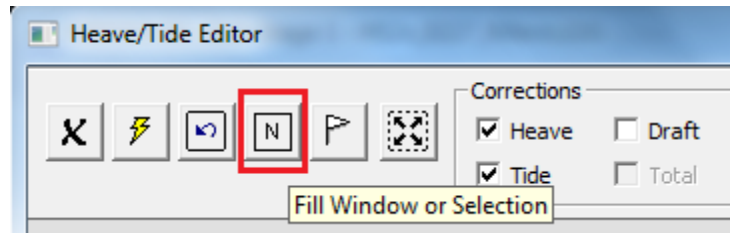
Fill Corrections in MBMAX64

By Mike Kalmbach

INTRODUCTION

MBMAX64 Version 13.0.19 allows heave, tide and draft corrections to be easily set to (filled with) any value. This is done in the Heave / Tide edit window. The new Fill button is outlined in red in Figure 1.

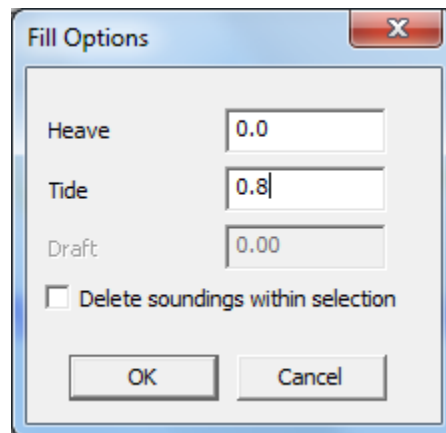
FIGURE 1. Square-N Button Initiates Fill



FILL OPTIONS

After you click the fill button, the Fill Options dialog (Figure 2) pops up to enter values. A check box is available in case it's useful to delete all soundings corrected by the fill value.

FIGURE 2. Fill Options Dialog



Read on for fill examples that will make editing easier...

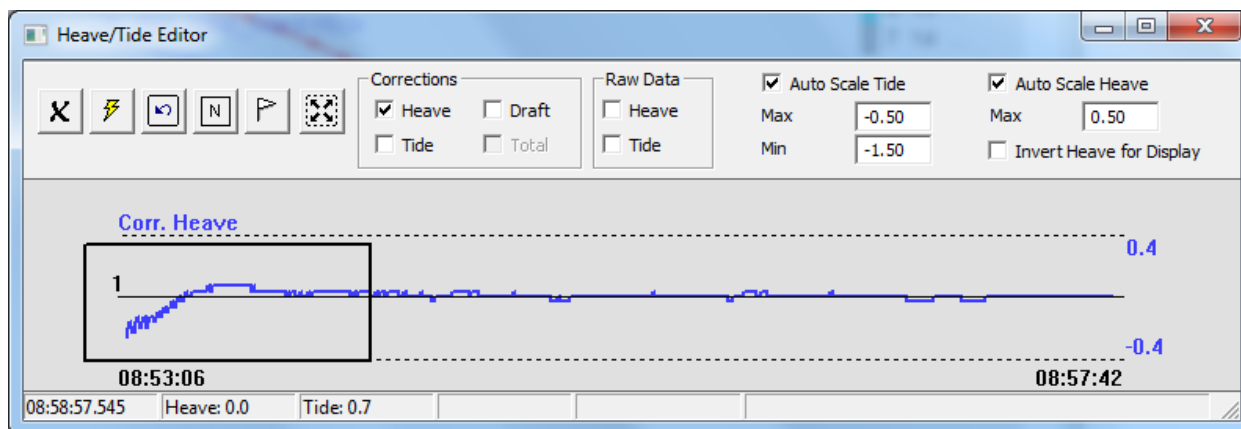
FILL SELECTION - HEAVE

Figure 3 shows a fill example that removes heave drift from the start of a survey line.

1. In the Heave / Tide editor, check heave correction for the display
2. Select the block to be filled. Block selection is used in this example.

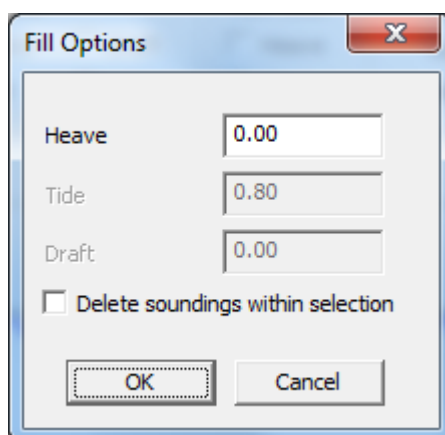
- Click the Fill button.

FIGURE 3. Figure 3 – Block select heave drift.



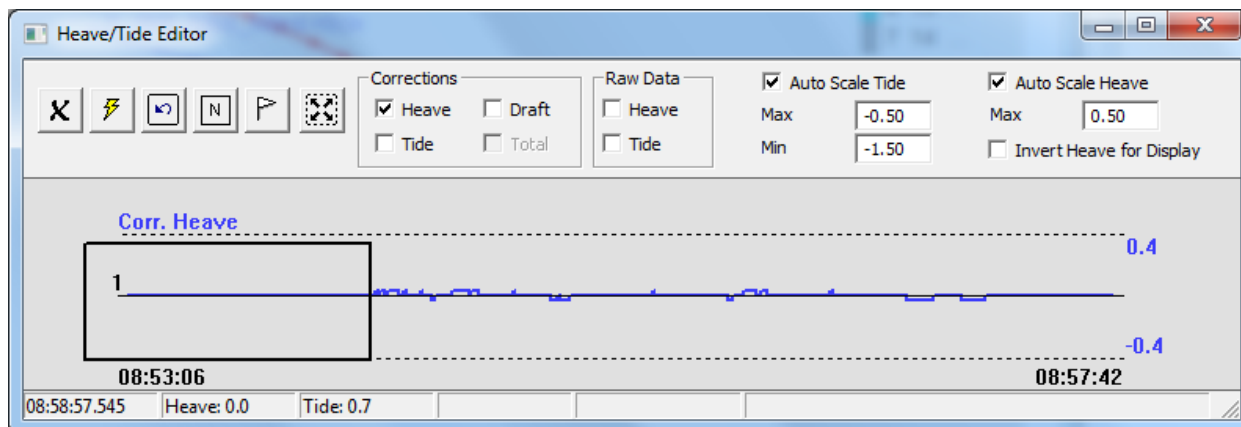
- Enter 0.0 for new heave value then OK (Figure 4).

FIGURE 4. Replace heave correction with zero and retain the soundings



The result after the fill is shown in Figure 5.

FIGURE 5. Heave Drift is Filled With Zero.

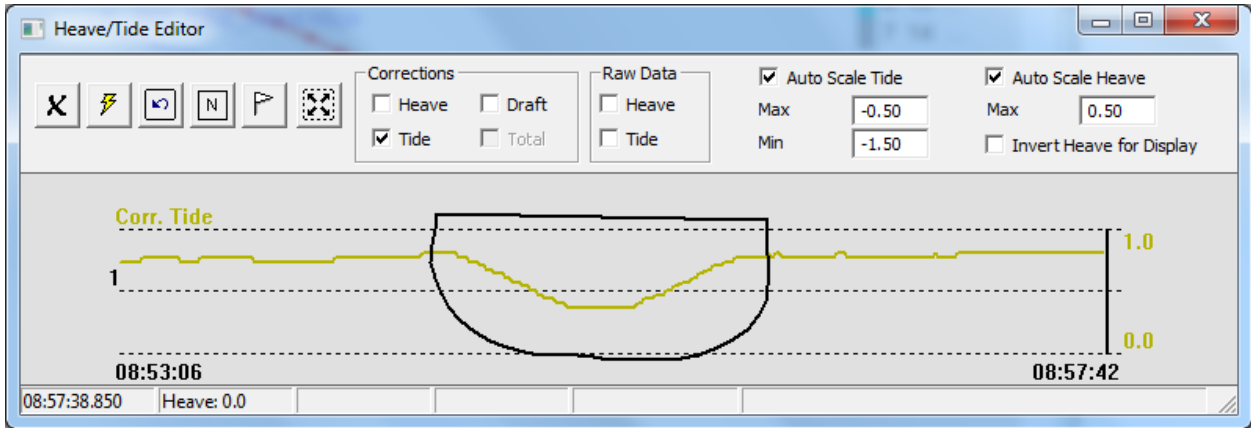


FILL SELECTION - TIDE

This example removes a block of bad RTK tides using a Lasso selection.

1. In the Heave / Tide editor, check tide correction for the display.
2. Lasso the bad points then click the Fill button (Figure 6).

***FIGURE 6.** Figure 6 – Lasso the bad RTK tides.*



3. Enter the replacement tide correction then click [OK].

***FIGURE 7.** 0.8 will replace bad tide points.*

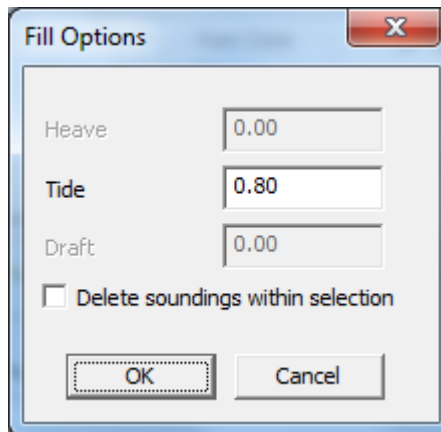
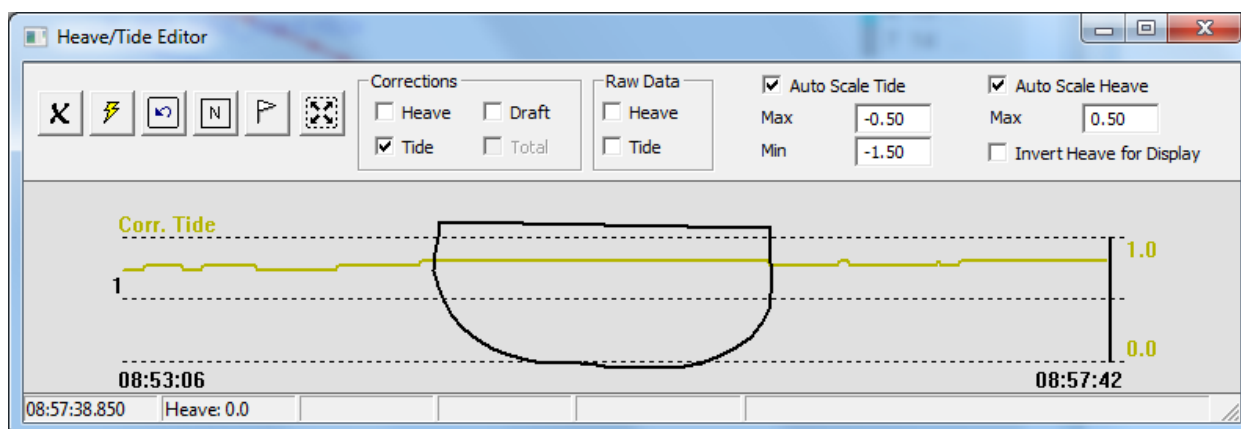


Figure 8 shows the resulting profile after the fill.

FIGURE 8. Selected tide corrections are filled with 0.8.



FILL A SURVEY LINE - TIDES

To fill corrections in one or more survey lines, don't use the lasso, block or line select tools. Use the file list instead (Figure 9). In this example we only fill tides in the first file.

FIGURE 9. Selecting your Files in the File List

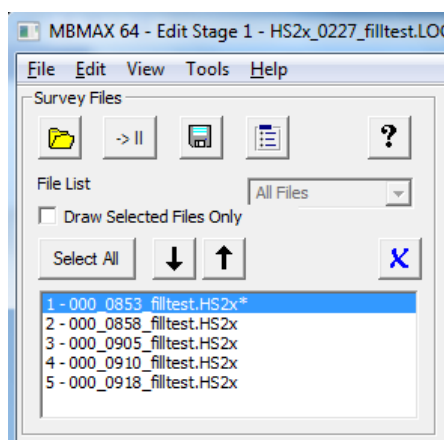


Figure 10 shows the results before and after the fill. Note that the *raw* RTK tide data has not been changed. (See [“Undo”](#) section to find out how to get back to the original corrections).

FIGURE 10. Before Fill, RTK Tides are a Mess.

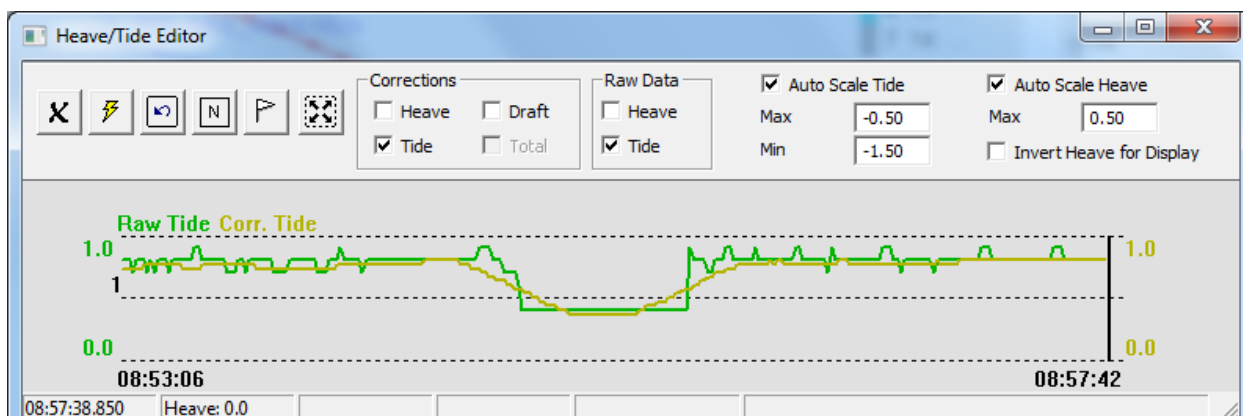
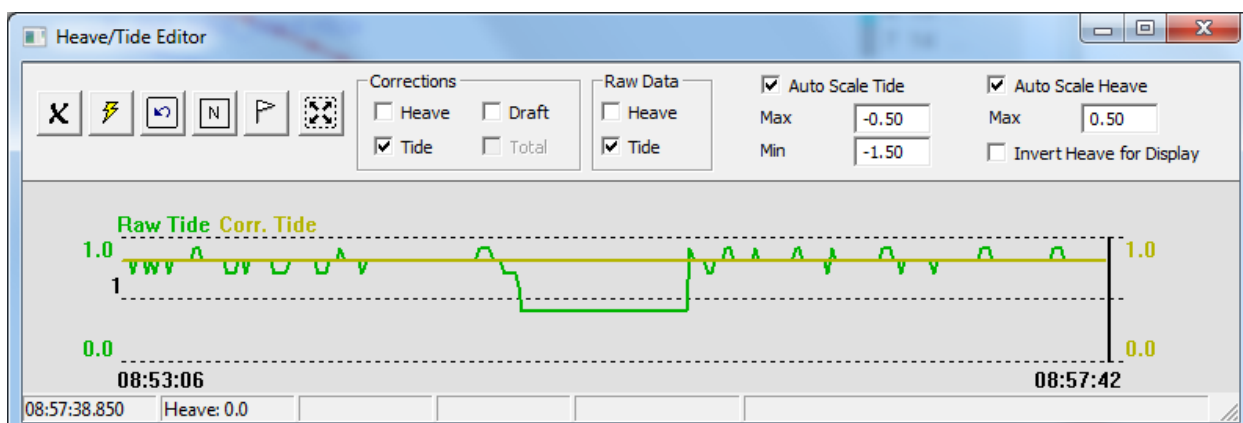


FIGURE 11. After Fill. Only the Correction is Changed. Raw Data is Retained.



FILL ALL SURVEY LINES – HEAVE AND TIDE

Use the file list Select All button (Figure 9). Figures 12 – 14 show corrections before fill, the fill values, and corrections after fill.

FIGURE 12. Heave and tide are both checked for display and fill.

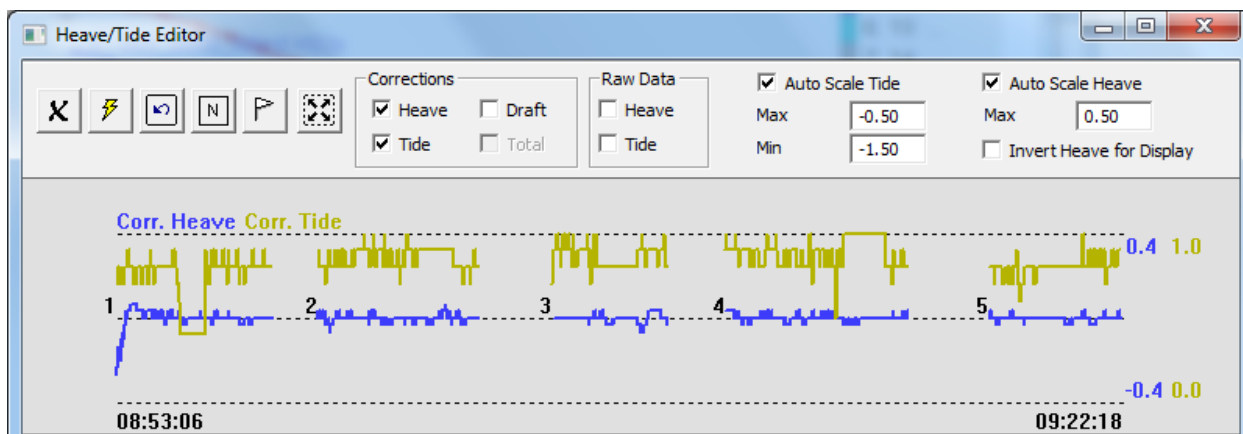


FIGURE 13. Heave and tide fill values.

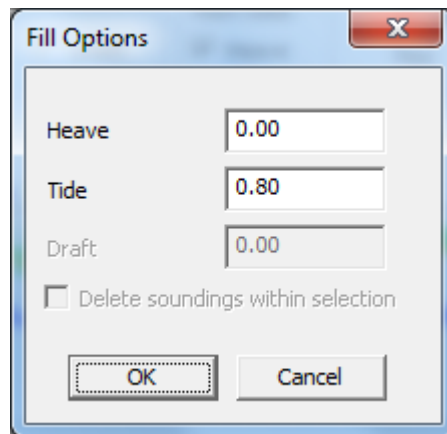
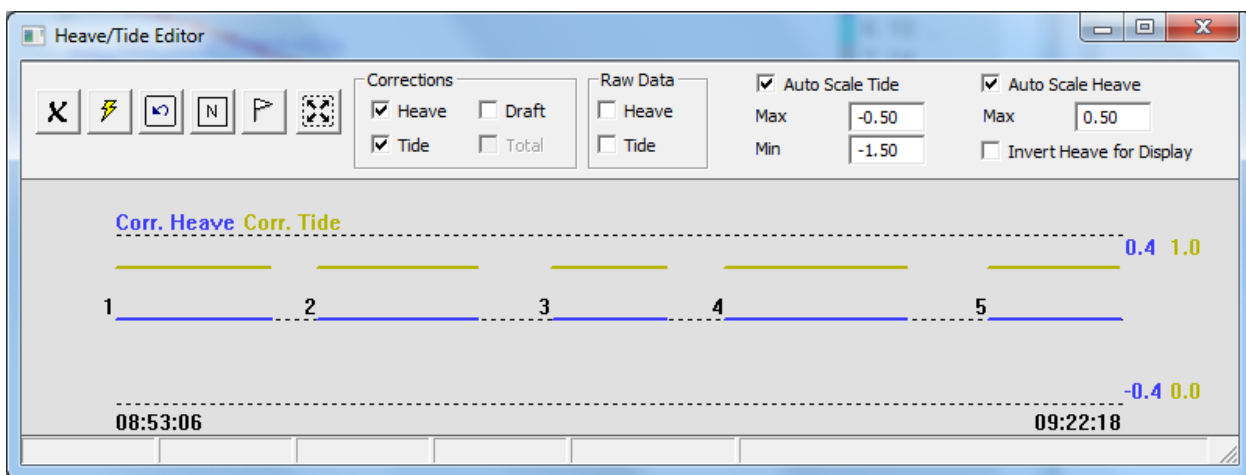


FIGURE 14. After fill, the corrections for all files (survey lines) have been replaced.



UNDO

Undo fill values is done through the MBMAX64 EDIT-FLAGS menu (Figure 15). Perhaps not the first place one would look. (Ahem, sorry.)

To reset corrections to original values, click [Filled Values].

FIGURE 15. Use the Flags dialog to undo filled corrections.

The image shows a 'Flags' dialog box with a title bar containing a close button (X). The dialog is divided into two main sections: 'Undelete Options' and 'Reset'.

Undelete Options:

- ☐ All Soundings Deleted Manually (value: 0)
- ☐ All Soundings Deleted Automatically (value: 0)
- ☐ All Soundings Within Z Range
- Min: 0. Max: 0.
- Undelete button

Reset:

Checked Beams	0
Point Flags	0
Golden Soundings	0
Filled Values	271

Close button