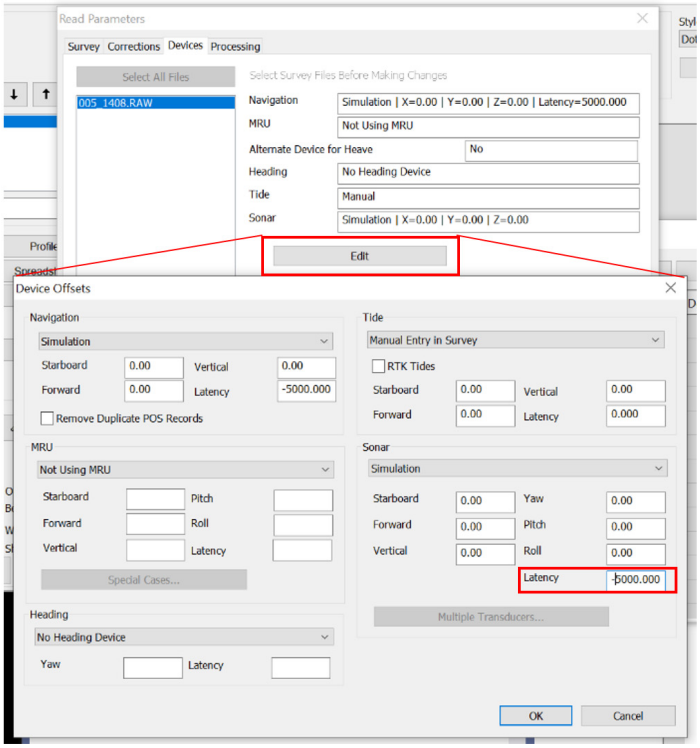
# Updates to SBMAX64 - Spreadsheet Time & Time Shift

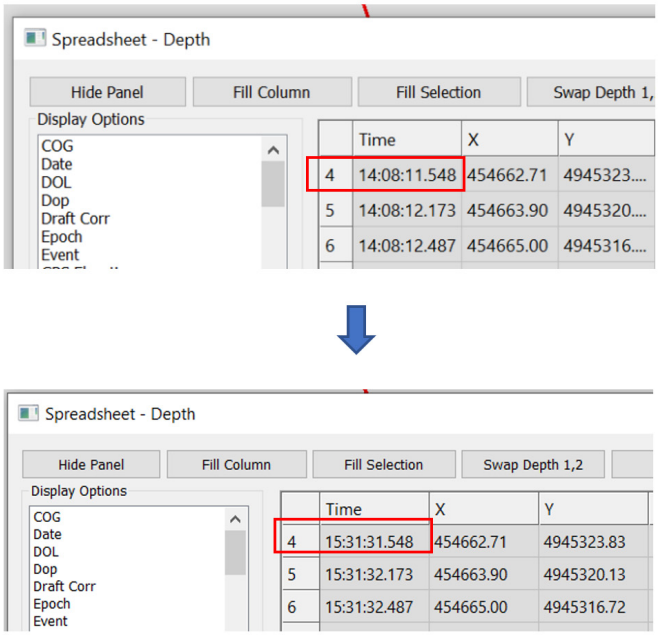
By Jocelyn Kane

More updates to the 64-bit SINGLE BEAM EDITOR (SBMAX64) have been made so I am once again writing about them. Present in the HYPACK® 2023 release, the newest changes have to do with time and aim to help the user better visualize and edit their data.

Previously, when an offset was added to the sonar device in Read Parameters after the files had already been loaded, the time would not change in the spreadsheet. Since the time column is the sweep time, it now displays the actual time you took the sweep at. If a mistake is made, the offset can be updated in Read Parameters as many times as necessary with the spreadsheet updating each time. Furthermore, because the change is only a visual change, the offset is applied to saved and exported files the same as it has always been.

*Offset in Read Parameters Applied to Spreadsheet Sweep Time*

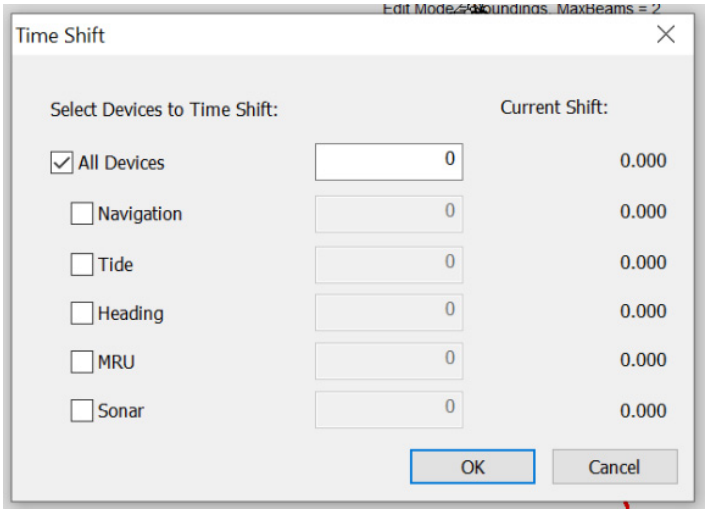



**A new Time Shift tool has also been added to the editor**, which can come in handy if you have a significant time discrepancy problem. An example of such a situation would be if you have sounding files recorded in UTC but they are supposed to be in local time. Located under

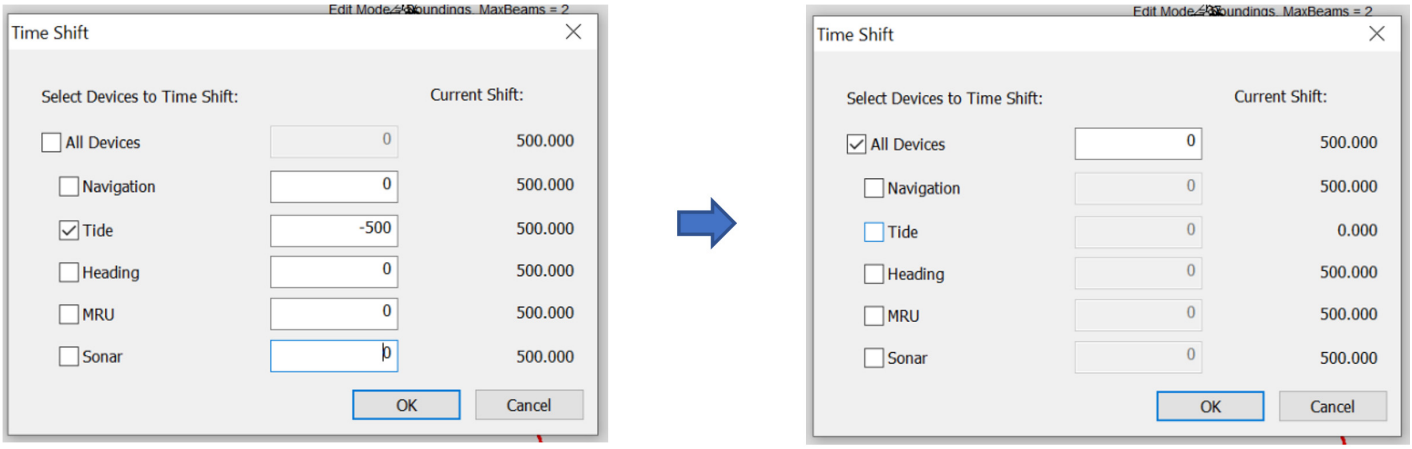
Tools -> Time Shift, the dialog lists the possible devices to time shift, an edit box to enter the shift to apply, and their current shift in seconds. When you open the dialog, the All Devices option is checked by default so you only have to enter the time shift value once, however if you want to shift the time of a specific device, the edit boxes for the individual devices become enabled when All Devices is deselected. Input the time shift needed to correct the device and check the box next to it. Only checked devices will have their time changed, and these changes are applied only if you select [OK] to exit the dialog. Clicking [Cancel] or deselecting any devices signals the program not to use the input values.

*Device Time Shift Window*




After exiting the dialog the changes will be reflected in the spreadsheet, and if any alterations need to be made later in editing, the dialog can be reopened and updated. If that is the case, you will see the current shift for each device and the new inputs will be added to any previously applied shift.

*New Time Shift Applied to Device*




An important fact to note is that changes in Time Shift WILL change the time tags in your data. The saved or exported files from SBMAX64 will contain the new times, however, the program also saves each individual device's shift so you have the capability to reopen the files and know what the shift is and alter it again if needed.