



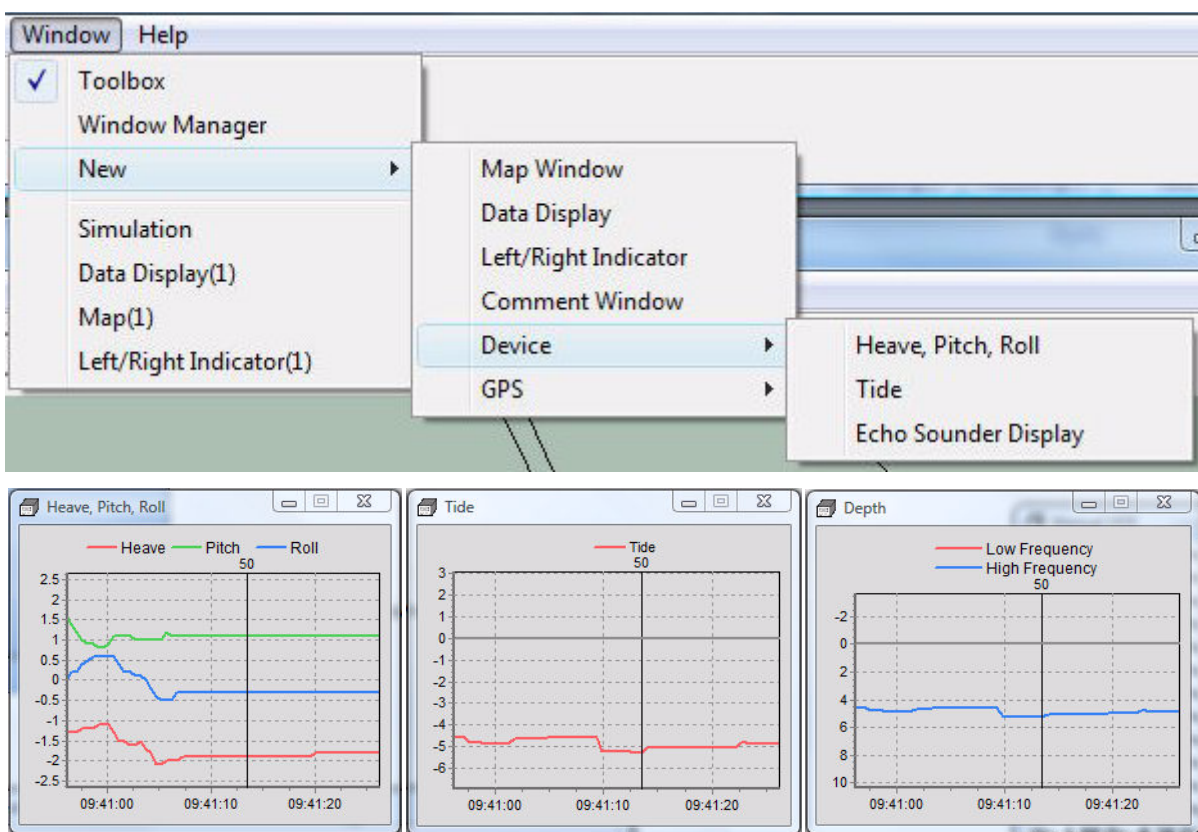
New Device Windows in Survey

By John Marinuzzi

Most of you are probably already familiar with the GPS Windows in the Survey program. This is a set of additional available windows to visually track GPS information being provided by your positioning equipment. We have now developed a few more windows to do the same with other types of devices, namely Tide, Heave-Pitch-Roll, and Depth. This functionality will be available in the upcoming Survey program (v 9.0.5.0).

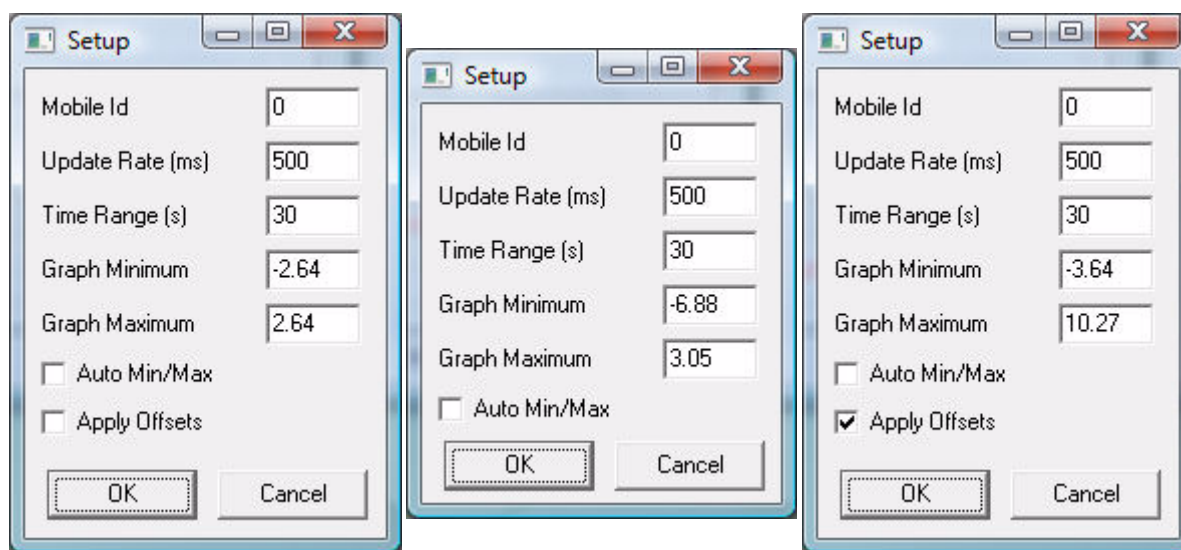
You can find this functionality in the Survey program by going to Window menu item and selecting NEW – DEVICE. (See image below.)

FIGURE 1. The Windows--Heave, Pitch and Roll (left), Tide (center), Depth (right)



Like the GPS windows, these device windows get their information from the loaded device drivers through shared memory. The device windows differ in that the user has to specify which Mobile (boat) to look for information on. This is done through the setup. To access the setup on any window, just right click on it. You will get a popup menu to enter the setup window, which looks like this for each device:

FIGURE 2. *HPR Setup (left), Tide Setup (center), Depth Setup (right)*



SETUP OPTIONS

The following is a list of the setup options and explanations for the windows.

Mobile Id –the Mobile (Boat) to track data from.

Update Range – this specifies how often the window will query shared memory for new information.

Time Range – this is the viewable time block history to display in the window.

Graph Minimum – specifies the minimum range for the data (y-axis – HPR, Tide and Depth values).

Graph Maximum – specifies the maximum range for the data (y-axis – HPR, Tide and Depth values).

Auto Min/Max – will scale the y-axis to fit the Minimum and Maximum value range of the given Time Range.

Apply Offsets – (HPR and Depth only) applies the device offsets specified in the Hardware program to the data values read from shared memory.

OTHER FEATURES

These windows offer a little more ease of use for panning and zooming. To pan of the y-axis the user simply has to mouse drag up and down to change the range. Zooming is done with the mouse wheel like in the HYPACK shell. Doing a pan or zoom operation will automatically switch the “Auto Min/Max” feature off.