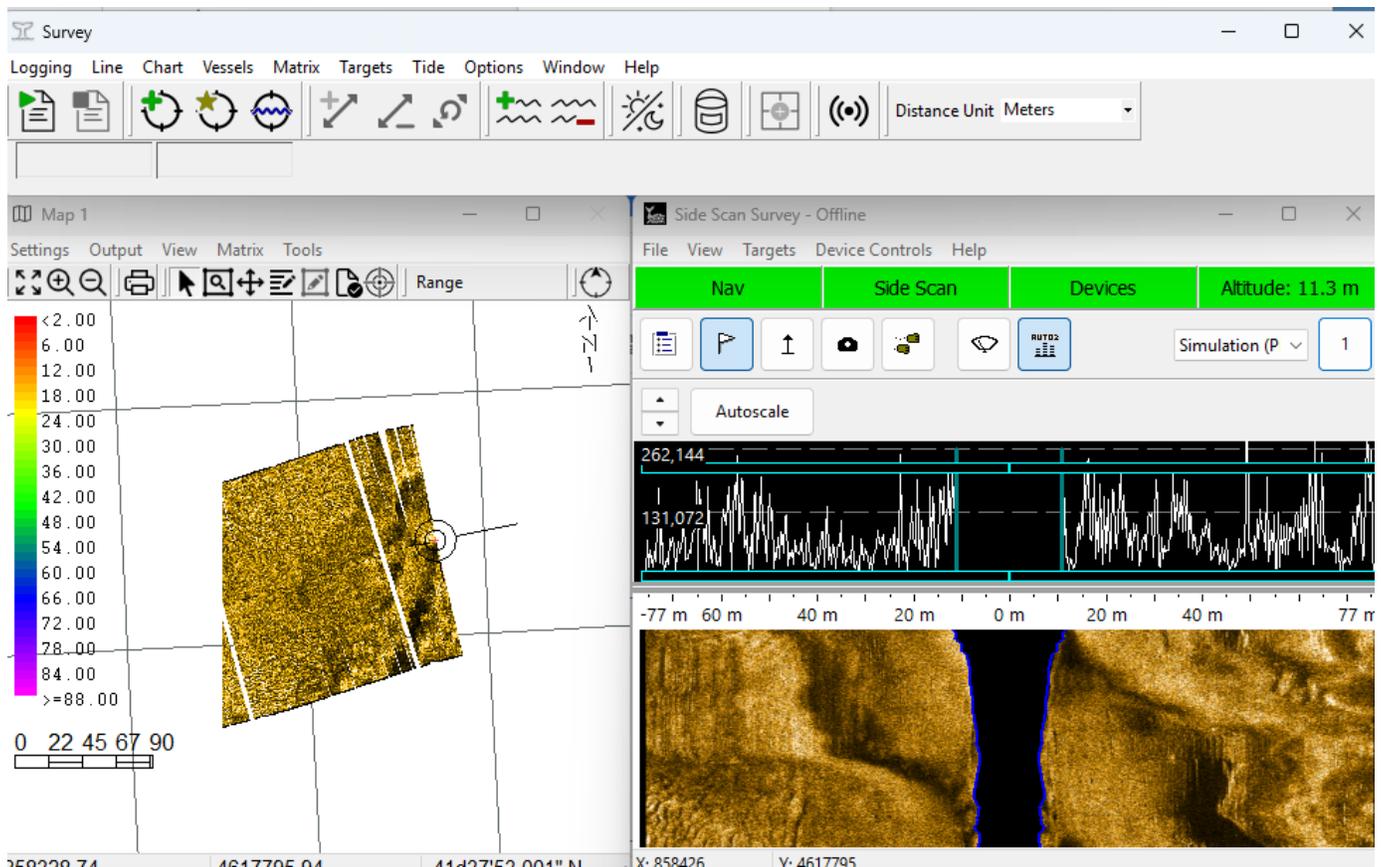


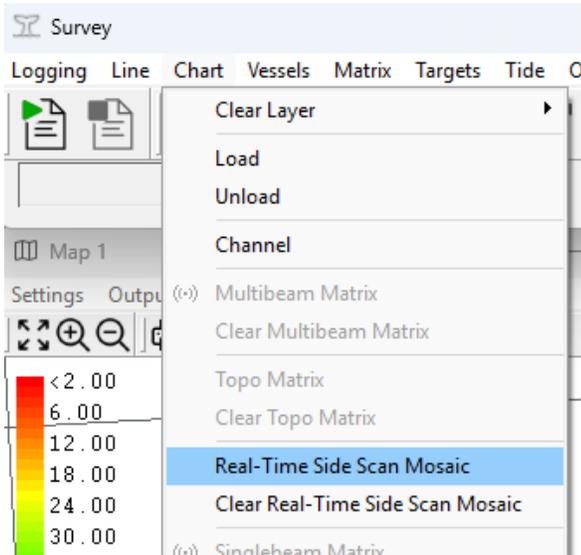
Real-Time Side Scan Mosaic

by Daniel Tobin

HYPACK® supports displaying a side scan mosaic in real-time during acquisition.

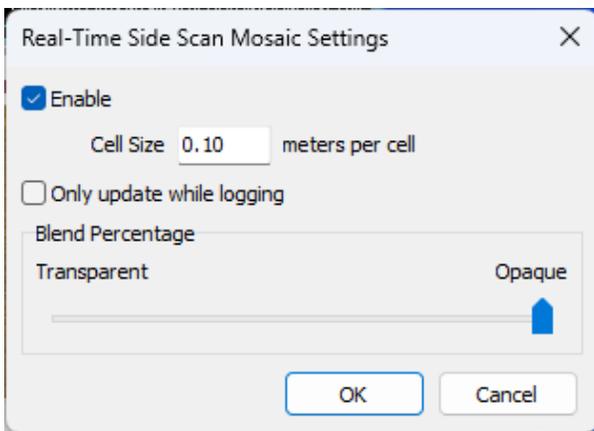


On the right, you can see the side scan waterfall, and on the left, you can see the side scan data being rendered as a mosaic. This mosaic has gains applied and is slant/range corrected, which means each point of the data is rendered at the point it should appear in real life.



To enable real-time mosaics, launch HYPACK Survey with a positioning device and a side scan device configured. In HYPACK Survey, click Chart -> Real-Time Side Scan Mosaic.

This opens up the Real Time Side Scan Mosaic settings window.



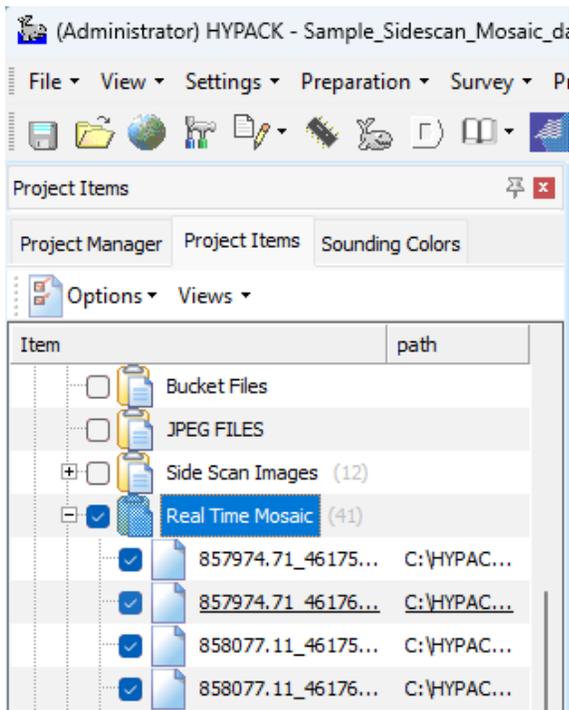
Tick the “Enable” box to turn on the real-time mosaic.

Cell Size determines how much area a pixel of the mosaic image covers. In this instance, each pixel covers 10 cm. 10 cm or about 1/3 ft is usually as low as you should go.

If you’re working with a sonar that has a very wide swath (e.g. 500m or more), you’ll likely need to use a larger value here to get full coverage. Experiment with different values until you get an image you like.

If you tick “Only update while logging”, new data will only be added to the mosaic if you are logging. Otherwise, it will always add new data.

“Blend Percentage” sets how much overlapping mosaic areas should blend with the existing mosaic.



After surveying, your real-time mosaics will be visible in their folder in the shell.