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# SonarWiz Quarterly Highlights NEWS ITEMS Version - 2015 Q2

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## 1 Q2 2015 - SonarWiz Most Significant Enhancements

Functional Category	Enhancement Description
Bathymetry post-processing (see 2.1)	<p>1. Graphic support for AUV vessels was added to the new Vessel Editor, making it a much more realistic graphic for sensor offsets definition.</p> <p>2. New WASSP multibeam file import for the NWSF file type is supported, as well as GeoSwath+ V4 RFF file format, and RESON S7K formats.</p> <p>3. CTI3DViewer - can now display grids, basemaps, and real-time bathymetry point-clouds, helping you see real-time data in context.</p>
Real-time Data Acquisition Support (see 2.2)	HELM DISPLAY - new support was added for nautical chart basemap backgrounds, and real-time bathymetry data displays.
Sub-bottom post-processing (see 2.3)	Significant improvements in CODA COD file type import, as well as completely new support for Innomar native SES file format import, were added to SonarWiz.
Sidescan post-processing (see 2.4)	The UGC gain control now allows users to budge the selected nodes up and down using the up/down arrow keys. This gives finer control over the UGC gain adjustment curve and is easier to deal with on a moving boat.
General Enhancements	Many operations regarding digitized features have had their performance improved: [de]selection/drawing in the plan view, [de]selection in the explorer tree, commands in the feature manager dialog. Users will notice this as a speed-up, taking less time to draw, and screen-refresh.
Magnetometry post-processing	The "MMT Maglog GPS w/altitude" template for magnetometer data was enhanced to parse the second parameter which is signal strength. Now Mag_signalStrength can be viewed as well in ZEDIT. Values above 700 indicate adequate signal-strength. This new feature allows for enhanced quality control in mag post-processing.

## 2 READ MORE - with Graphics – 2015 Q2 Sonarwiz Highlights

The top four categories of enhancements are described in more detail below, with graphics..

### 2.1 BATHYMETRY IMPROVEMENTS - AUV support, CTI3DViewer improvements

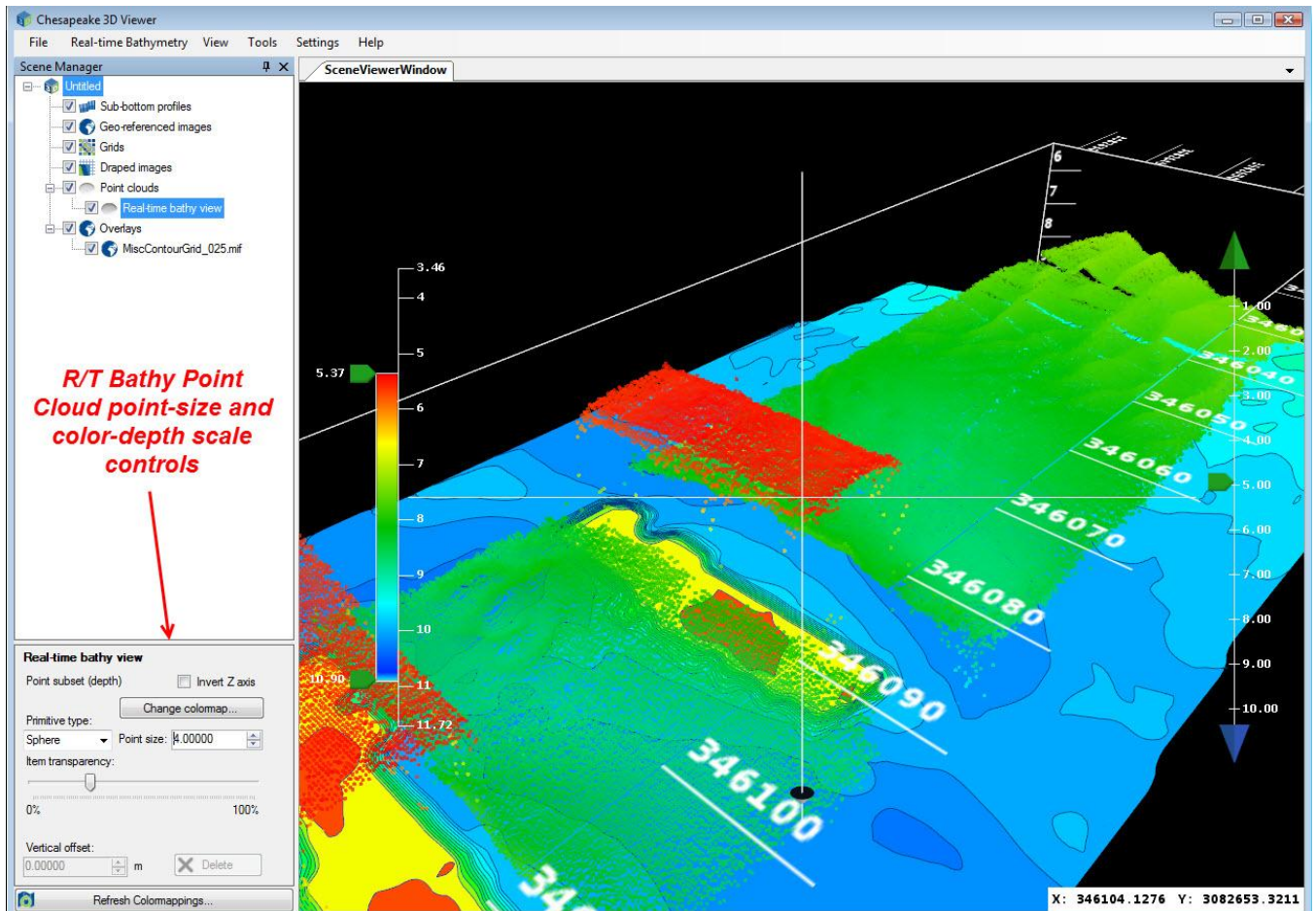
#### 2.1.1 BATHYMETRY - AUV Vessel Definition Support

The SonarWiz VESSEL EDITOR just got better, adding specific graphic support for AUV survey. Now the boat-graphics option can be set to AUV, for exact designation of sensor positions in your AUV survey set-up. GPS, MRU, and bathy swath sensor position settings provide a way to exactly define the survey set-up, for exacting and accurate bathy post-processing of the survey data. Roll, pitch, heading adjustments can be made. Give this a try in your next bathymetry AUV survey!

Channel	Name	Class	Towed by	Priority	XYZ offsets from RP (m)	Roll/pitch/heading offsets	Latency
0	Edgetech 6205	Swath Bathy	<none>	1	0.000, 0.000, 0.000	0.000°, 0.000°, 180.000°	0
1	Edgetech 6205	Swath Bathy	<none>	1	0.000, 0.000, 0.000	0.000°, 0.000°, 0.000°	0
0	Applanix POS MV	Motion Sensor	<none>	1	0.000, 0.000, 0.000	0.000°, 0.000°, 0.000°	0

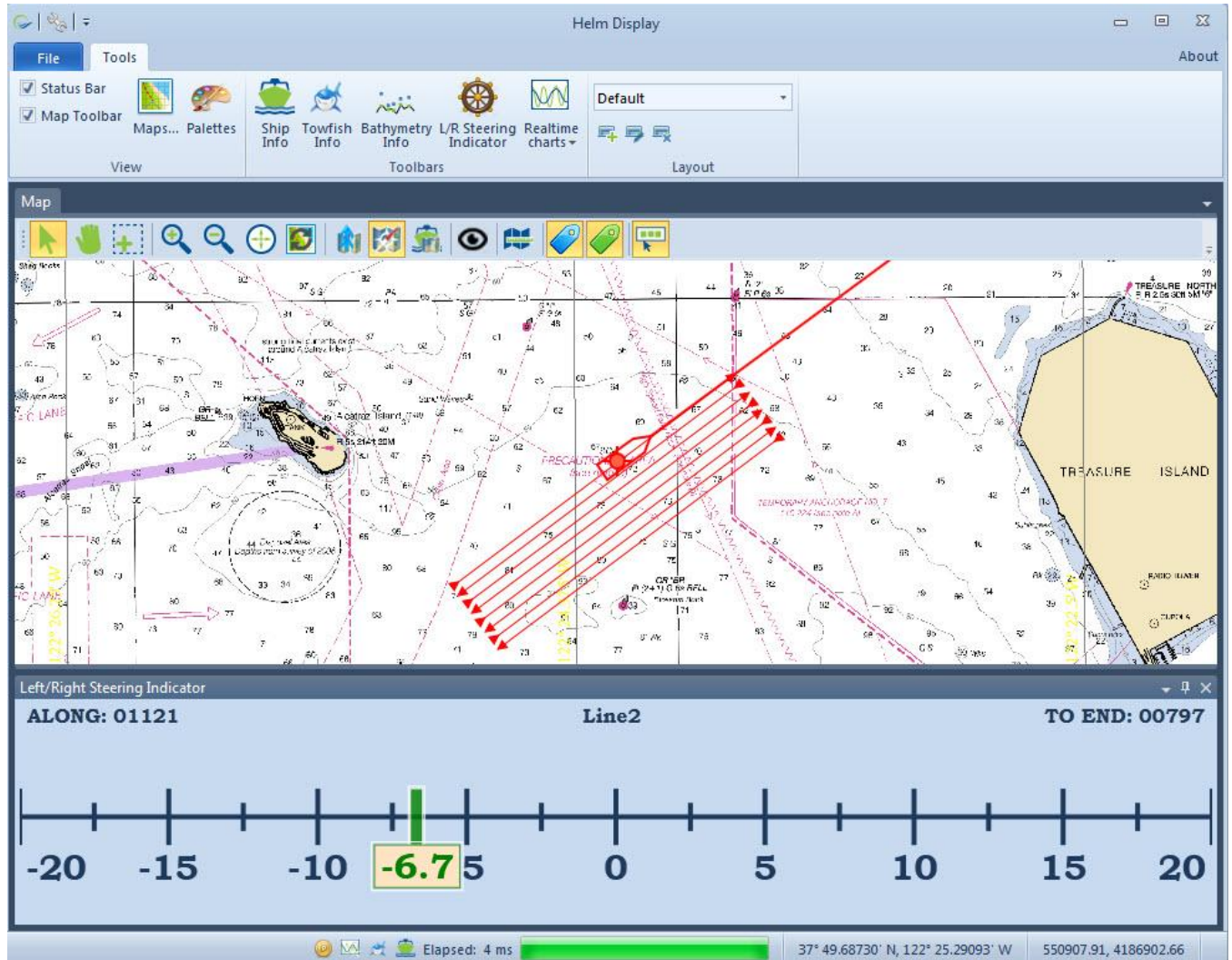
## 2.1.2 BATHYMETRY - CTI3DViewer - grid, base-map, R/T point-clouds support

Viewing your data in CTI3DViewer context just got better. The viewer can now import and display and color-control GRD files - the types of GRID file generated as abstractions from the bathymetry point-clouds in SonarWiz. See average, median, standard deviation grids now in the viewer, as well as bathy data flowing in as a real-time point cloud. New also is support for selectable base-maps, such as a nautical chart, to see your 3D data or bathymetry point-cloud active display, in the context of a real-world map, to help avoid obstacles and be sure you are on track. You have easy real-time control of the point-presentation shape and color-scale as well.



### 2.2 Real-Time Work - HELM DISPLAY improvements

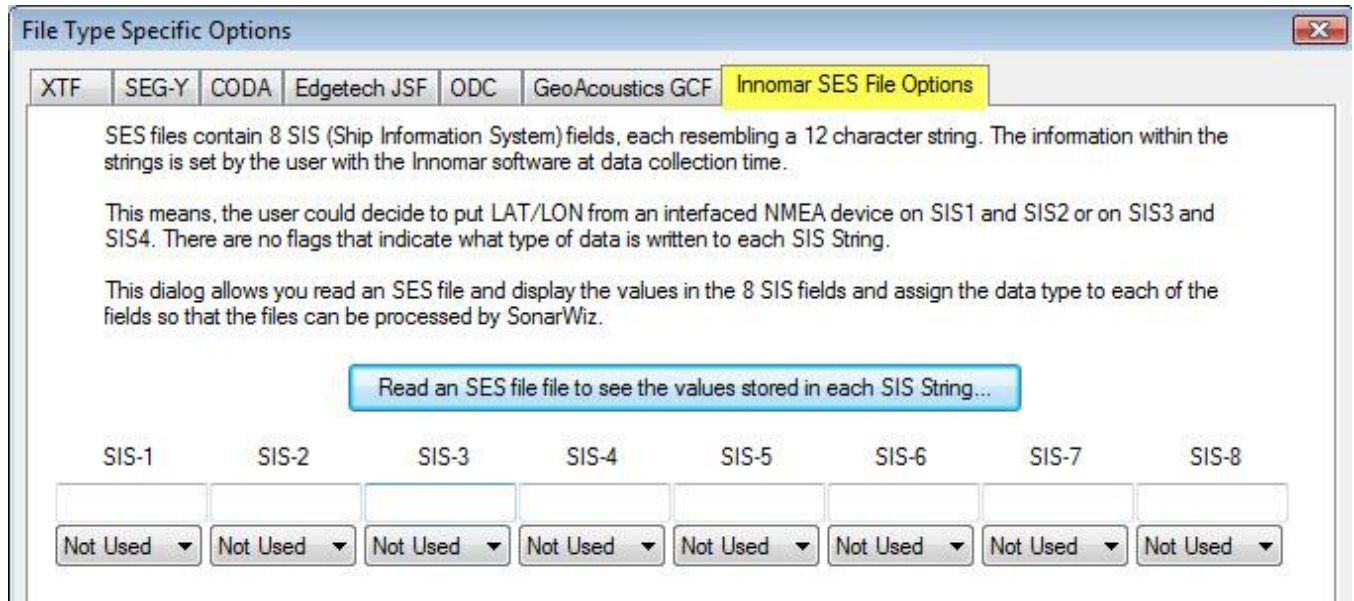
HELM DISPLAY is the no-license-required application to present real-time position data, now with a basemap context supported, to help the captain, at the helm, follow planned survey lines. Survey lines created on the main SonarWiz survey PC aft, where sonar data are recorded, can be sent via UDP network communication to any number of HELM DISPLAY PCs in the ship. A live SHIP icon and Left/Right steering correction display make sure you are on track.



### 2.3 SUB-BOTTOM - Better CODA COD and new INNOMAR SES support

SonarWiz has improved CODA \*.COD type import support for better presentation of this sub-bottom data type.

New also in Q2 2015 is support for native INNOMAR SES file-type import. INNOMAR options of recording \*.SES or \*.SEG file types are both supported for import now in SonarWiz, with a number of File-Type-Specific-Options, provided just for SES file type:

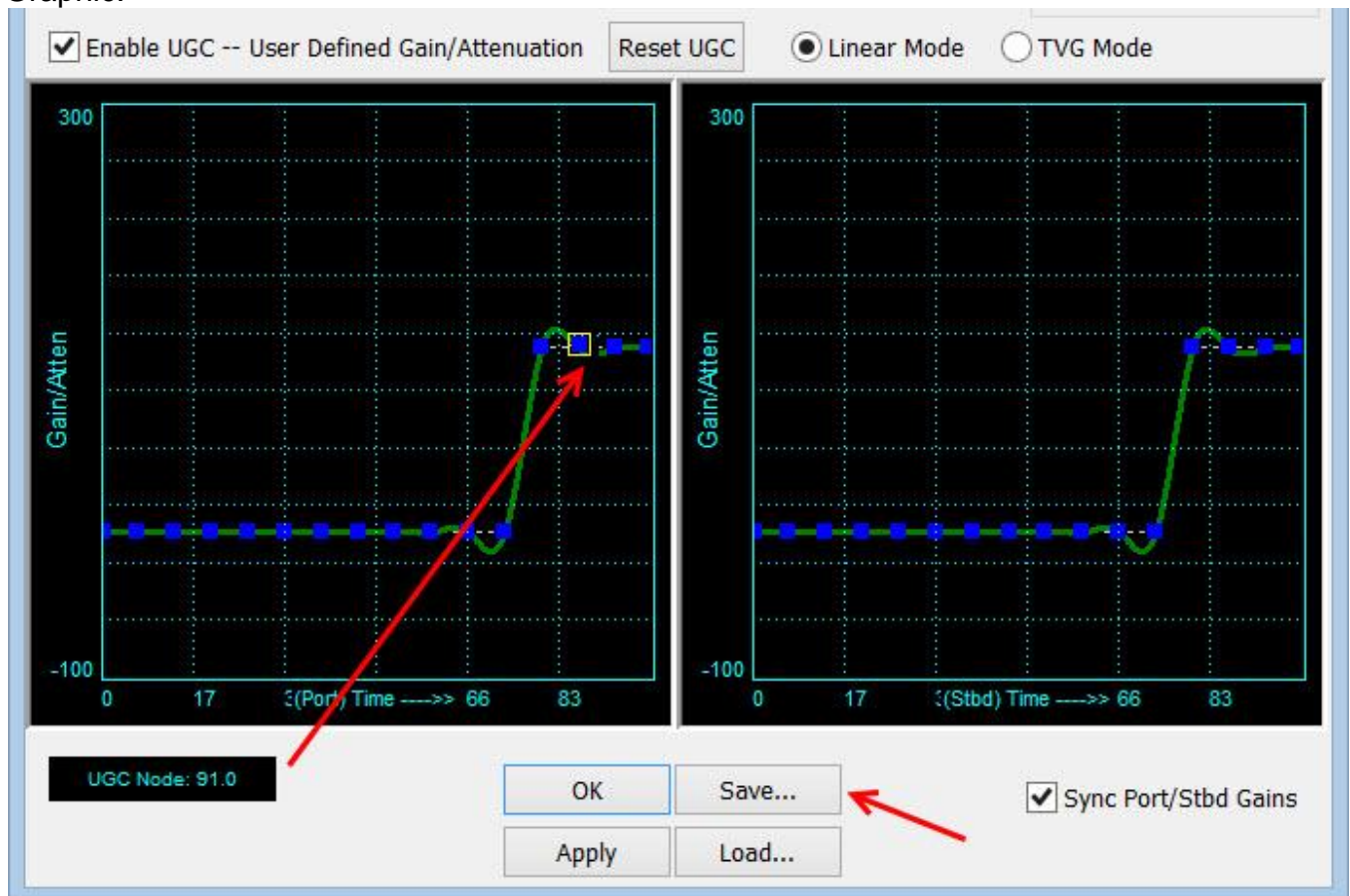


SonarWiz supports a variety of import options to handle choices made by the user, selected during the SES file recording set-up phase of the survey. This means that anyone with an INNOMAR SES2000 sonar doing sub-bottom survey, can now make full use of the SonarWiz sub-bottom post-processing capabilities.

## 2.4 SIDESCAN - UGC control enhancement

Adjusting gains just got easier in SonarWiz! Custom TVG functions can easily, and accurately, be created using the new UGC numerical-readout, while adjusting gain-function nodes. You can now see exactly what dB gain you are applying at each node position! Thanks to several customers for suggesting this specific enhancement!

Graphic:



***UGC node adjustment has accurate numeric read-out now. Settings may also be saved for re-use later in the same, or another project.***