SonarWiz SBP

High-quality sonar data acquisition and processing software

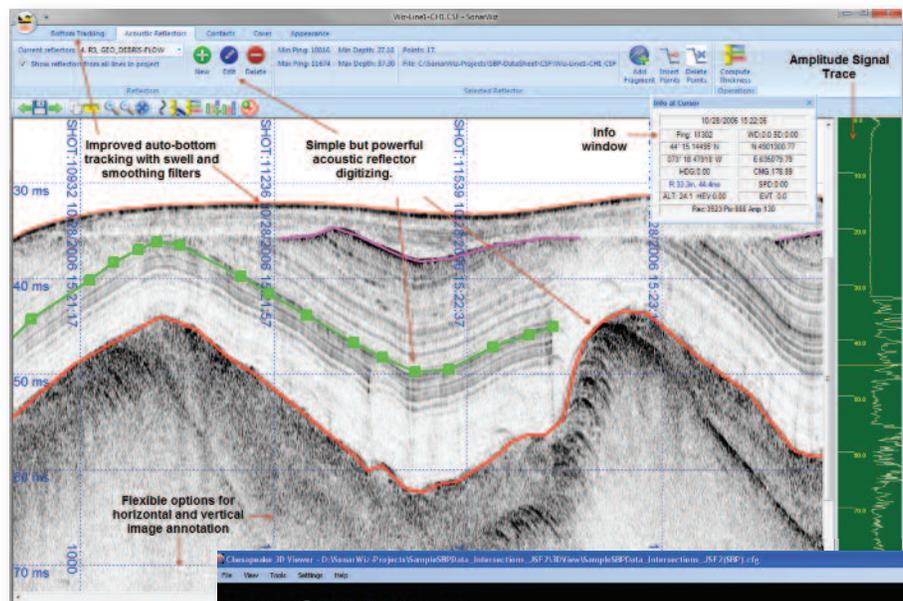## Sub-bottom Profiler
Feature Set

SonarWiz SBP is a fast, easy to use, acoustic mapping package available with a sub-bottom profiler acquisition and processing module in addition to navigation, fathometer and magnetometer input.

Interactive visualization tools such as zoom, pan, measure and on-the-fly image scaling make SonarWiz SBP an indispensable tool for sonar mosaic production and sub-bottom profile interpretation.

Digitizing tools allow features to be located and classified on the mosaic both during or after data acquisition.
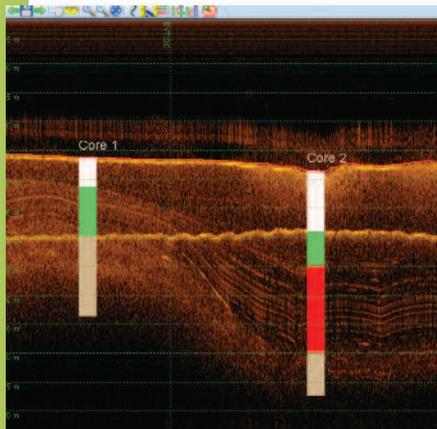
View multiple sub-bottom profiles, DTMs, sonar mosaics and XYZ-Amplitude point clouds in the SonarWiz 3D Viewer. Users can easily generate movies in AVI, WMV, MOV, FLV and ASF by manipulating the 3D scenes. SonarWiz also generate SD files compatible with Fledermaus™.

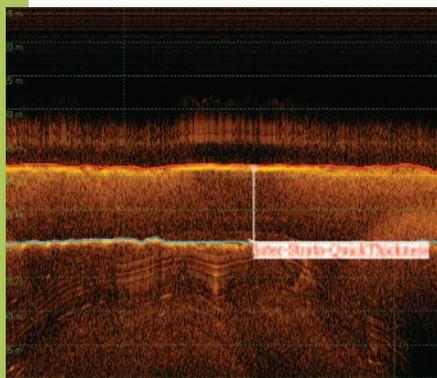Digitized SBP View showing advanced analysis tools and annotation

3D view of three SB lines, exported to CTI3DViewer

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Sonar*Wiz* SBP Features

The Core Mapping Tool graphically links known cores & locations with the SBP Data

Quick Thickness or "QT" is a two-point vertical line where the top point is usually placed at the seafloor and the bottom point is normally placed at the top of a pipe or other buried feature.

- **Acoustic Reflector Generation—**SonarWiz SBP profile view provides a simple interface for digitizing acoustic reflectors in the profile. Reflectors are displayed in the map view and on the profile view as they are digitized. SonarWiz SBP includes a complete export tool that will save the digitized reflectors in many CAD, GIS and ASCII formats.

- **Spectrograph and band-pass controls—**SonarWiz SBP displays the frequency content of the trace under the mouse cursor. This control is great for boomer and sparker data as it takes the guesswork out of setting the band pass filter to eliminate the unwanted spectral components from the real data.

- **NavInjectorPro—**Inject any time/date stamped ASCII file of navigation and other parameters, into the time correlated record in the raw acoustic data files. It currently supports, XTF, SEGY, JSF, SDF and our internal CSF format. NavInjectorPro allows users to update their SonarWiz projects any time during the interpretation process.

- **Comprehensive signal processing and gain control—**Beam Angle Correction, de-striping, non-linear per-channel TVG, AGC, Band-Pass Filtering, and Stacking.

- **Classical Profile Views—**In addition to a plain view of all of your SBP data files, SonarWiz SBP provides multiple profile views of your SBP files that are "cursor-linked" with the map view. The profile views allow scroll and pan over the entire SBP data file and complete customization of the vertical and horizontal scale lines and event marking.

- **Layout Manager—**Customize your desktop to more closely match your own survey work flow by positioning windows, status displays and indicators right where you want them, save and recall to use again.

- **Isopach and Thickness Tool—**Compare any pair of reflectors, using the Thickness Tool that automatically generates the thickness vector for the area of intersection of the reflectors. Huge time-saving feature!

- **New! 3D surfaces—**Build 3D surfaces from digitized reflectors and visualize in 3D Viewer.

- **New! Tide and draft correction—**Quickly correct SBP profiles for tide and draft using the new Datum Align to Bathy Grid button.

- **Intersections—**Identify and work with intersecting sub-bottom profile navigation lines. Intersections points can be viewed in 3D to detect mis-ties.

- **Core Processing—**Show your interpretations right on the SBP profile using the new Core Mapping Tool.

- **GIS/CAD Integration—**Easy integration with GIS/CAD systems exporting vector files directly to ArcGIS compatible shapefile and AutoCAD compatible DXF files.

Additional Sonar*Wiz* Features

- Real-time survey-line generator, editor and steering indicator makes line following a breeze

- Real-time QC-sonar waterfall displays, now view multiple waterfall windows of SSS and SBP

- Auto-pilot output

- Comprehensive selection of pre-defined geodetic datums, coordinate systems and map projections, plus support for user defined datums and projections

- Support for 60 different map formats including BSB, S-57, VPF/VMAP, ECW, DXF, Shapefiles, GeoTiff and both raster and vector files

- Bottom Tracker—with manual and automatic modes

- On-screen tools simplify difficult tasks such as adjusting survey lines

- Printed output to any Windows supported printer or plotter

- Full online PDF help system, unmatched customer support and a yearly maintenance agreement available for extended upgrade and support options

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