

Visual Habitat

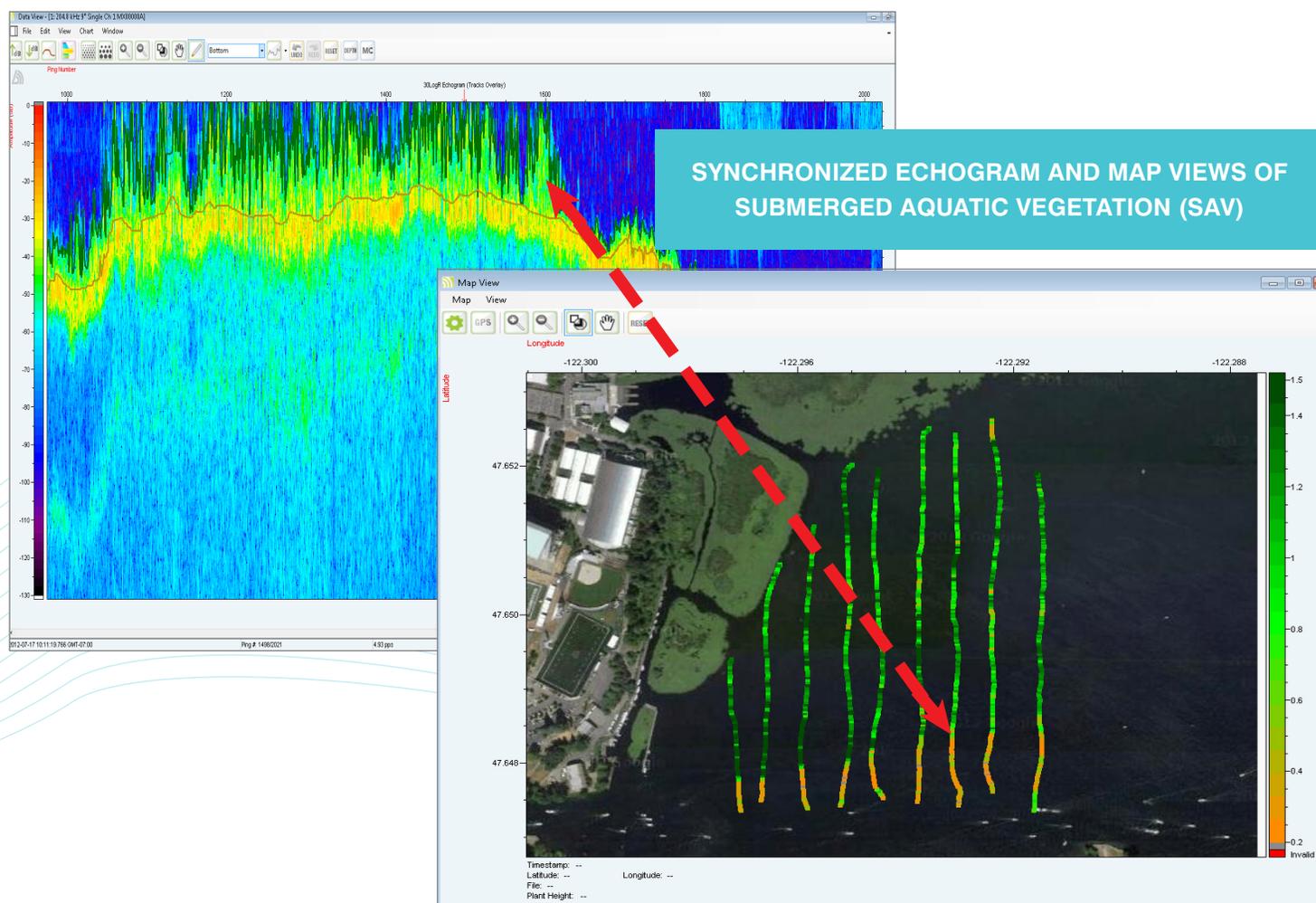
POST-PROCESSING AND DATA VISUALIZATION
SOFTWARE FOR BIOSONICS DT-X AND MX
ECHOSOUNDER SYSTEMS

Software Highlights

- Quickly Visualize Aquatic Habitat Data
- Generate full color transect maps in just minutes to display:
 - » Submerged Vegetation
 - » Bottom Substrate Type
 - » Bathymetry
- Compatible with data from any BioSonics Echosounder

Software Features:

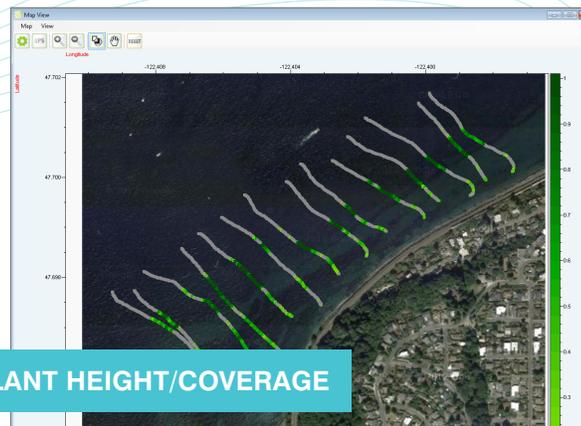
- Determine submerged plant canopy height and % cover
- Delineate areas of sand, mud, rock, and other substrates
- Illustrate bathymetry profiles
- Create GIS-ready files or export direct to KML



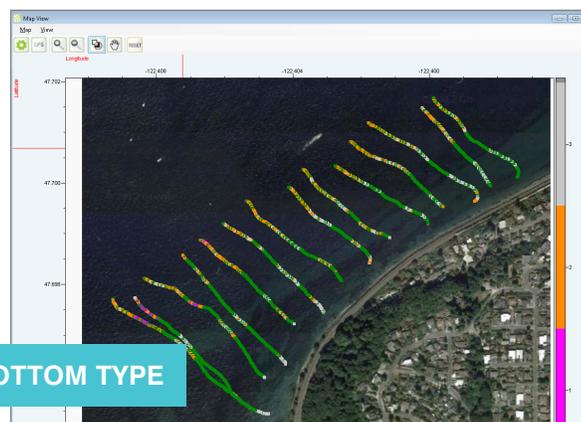
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Easy to learn and fun to use. Download your free demo version today!
 Visit www.biosonicsinc.com/product-software.asp

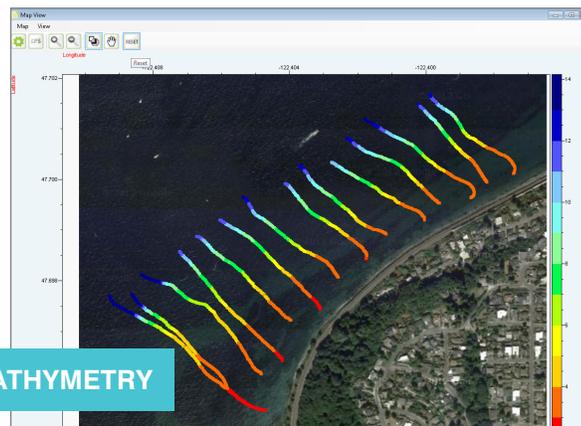
Submerged Aquatic Vegetation (SAV) - Visual Habitat provides precise and accurate height measurements of submerged aquatic vegetation. With separate algorithms for bottom tracking and plant canopy detection, Visual Habitat provides an output in CSV format that includes the latitude/longitude, depth, and plant height for every data point. Visual Habitat also provides measure of plant density by averaging the presence/absence of plants within a group of data points. Locate and quantify aquatic vegetation, calculate plant bio-volume, or measure changes in density or distribution...with Visual Habitat it's easy to generate accurate, reliable results.



Substrate Classification (bottom typing) - Visual Habitat makes substrate classification easier than ever before. By analyzing the properties of each echo signal and then using a Principal Components Analysis (PCA) to form clusters of similar echoes, Visual Habitat allows you to locate different substrate types based the relative hardness and smoothness of the sea floor. Based on decades of research, Visual Habitat bottom typing functionality is scientifically defensible and proven accurate in repeated studies.



Bathymetry - When used with a BioSonics echosounder, Visual Habitat allows for bathymetric measurements accurate to within +/-2cm. Export to CSV and create GIS maps or use the built-in mapping tools within Visual Habitat. User-friendly editing tools and full color hi-res echogram display allow for quick corrections to the bottom track. Efficiently process bathymetry data and be confident in the accuracy of your results with Visual Habitat.



System Requirements

Operating System: Windows Vista or newer; Windows 7 or newer strongly recommended.

Software Prerequisites: Requires Microsoft .NET framework. If you are running Windows Vista SP2, or Windows 7 or newer, the correct version of .NET is already installed on your computer.

Additional Software Requirements: PDF reader (to view the User Guides)

Computer Specifications: Communication: at least one wired Ethernet connector (RJ45); Memory: at least 1GB required; at least 2GB strongly recommended; Hard Drive: at least 50GB required; at least 250GB strongly recommended; Display Resolution: at least 1024x768 - more is better; CPU: 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor

A ruggedized Toughbook class computer with anti-glare, anti-reflective sunlight viewable display is highly recommended for field work.