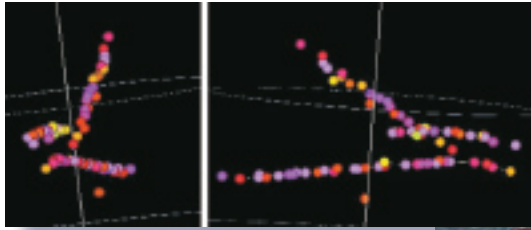


fish counting



The task

Stock assessment and behaviour studies of individual fish in rivers and other environments.

The solution

Detect, track and count fish (working with single or multiple frequencies) using a single application that provides you with full control of the entire process. Calculate biomass, distribution, flux, and indicative parameters for behavioral studies and species identification. Work with data from singlebeam, multibeam and DIDSON sonars and access the analysis methods employed by leading institutes around the world.

The benefits

1 Visualize all data and the results of analysis steps

- See what you are doing and check data quality at every step of the analysis
- Tune and optimize your analysis: echograms and graphs automatically update when algorithm settings change

2 Single target detection algorithm

- Detect single targets from sample data with full control of the target detection algorithm, applying filters before and after the process

3 Automated fish tracking using robust algorithms

- Defensible, objective fish counts
- Alpha-beta tracker based on proven published algorithms
- Quickly and efficiently generate repeatable fish counts
- Tune algorithms to match the data characteristics of your site

4 Advanced tools for manual tracking, editing and classifying tracks.

- Use 2D and 3D graphs of tracks and single targets for classification and quality control
- Quickly and easily create, split, merge and edit tracks
- Distinguish fish from debris and rocks

5 Extract a rich set of data outputs

- Export single target detections tagged with track ID for advanced post processing and analyses
- Export calculated parameters of single target and tracks for a wide range of studies

6 Support for multiple frequency analysis and image processing

- Multiple frequency target strength algorithms
- Use filters based on convolution and image processing techniques to enhance auto tracking in complex environments

