

Echoview

training courses

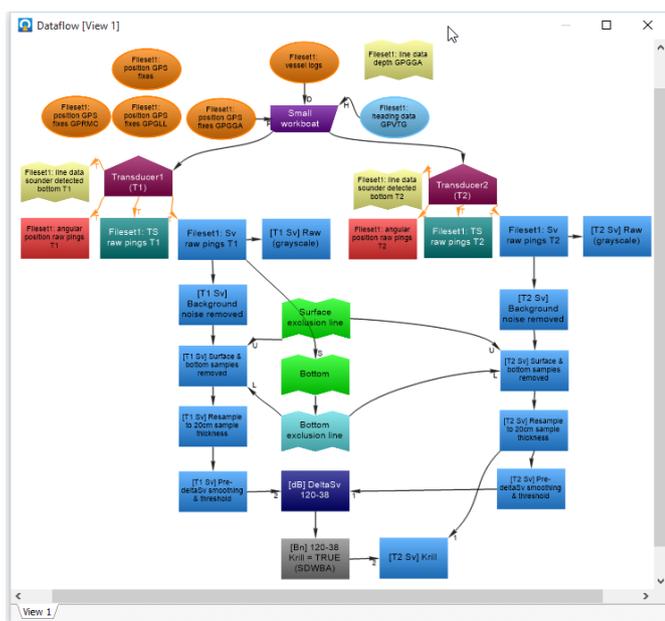
An Echoview training course will provide you with the skills to understand your single-beam and/or multibeam echosounder data, and to process it efficiently using Echoview. Courses are offered globally and are tailored to best suit your level of experience and particular learning requirements. They are classroom based and run by one or more of our skilled and experienced Echoview staff trainers.

If you're thinking about training – whether for an advertised public course, a private course at your location, or simply “at some stage” – please email us at any time at sales@echoview.com so we can start the process of designing the right course for you.

Course objectives

An Echoview training course is all about echo detection using echosounders (active sonar), and how to process echosounder data for a range of ecological applications. The objective is to equip you with the skills to:

- Understand the fundamental nature of echosounder data and its applicability as a tool to study aquatic environments
- Ask the right questions of your data in order to proceed from raw data to ecological information
- Use Echoview to process your echosounder data according to a logical workflow



A simple two-frequency algorithm for classifying Antarctic krill, constructed in Echoview's Dataflow window

Learning units

The course material is broken down into three learning units:

1. Echosounder theory
2. Echoview features
3. Data-processing workflow

Example topics within these units include:

- Underwater sound
- Echosounders
- The echosounder (*aka* active sonar) equation
- Echoview data model/hierarchy (EV files, Filesets, Variables etc.)
- Data types, lines and regions
- Data visualization and exploration
- Applying calibration settings
- Smoothing and resampling
- Noise estimation and removal
- Bottom detection and editing
- Single-target detection and tracking
- Aggregation detection (2D and 3D)
- Submerged vegetation detection
- Multifrequency classification
- Bottom classification
- Density estimation via echo counting and echo integration
- Automation via templates and COM scripting

Your learning requirements

The topics, focus and delivery approach for each course are selected based on your individual learning requirements. These include your level of experience, the applications that you are interested in, and the echosounder models that you are or will be using for your work.

To ensure that we can accommodate your requirements, it is important for us to know these as early as possible. We encourage you to submit your training interest and learning requirements at any time via the following short online form:

https://www.echoview.com/products-services/training/learning_requirements

Echoview training courses

Course duration and agenda

The duration and agenda can be varied to suit your requirements. However, a typical course duration is 5 days, with each day divided into four 90-minute sessions consisting of lectures, demonstrations, exercises and discussions.

The following session list provides an example of a generic 5-day agenda:

Day 1

1. Setup and introductions
2. Echosounder theory (part 1)
3. Echosounder theory (part 2)
4. Echosounder theory (part 3)

Day 2

1. Echoview features
2. Workflow 1: Explore
3. Workflow 2: Calibrate (part 1)
4. Workflow 2: Calibrate (part 2)

Day 3

5. Workflow 3: Clean (part 1)
6. Workflow 3: Clean (part 2)
7. Workflow 4: Detect (part 1)
8. Workflow 4: Detect (part 2)

Day 4

9. Workflow 4: Detect (part 3)
10. Workflow 4: Detect (part 4)
11. Workflow 5: Classify (part 1)
12. Workflow 5: Classify (part 2)

Day 5

13. Workflow 5: Classify (part 3)
14. Workflow 6: Characterize (part 1)
15. Workflow 6: Characterize (part 2)
16. Workflow 7: Automate

Reading and exercises are recommended as homework each evening in order to consolidate the day's learning. There is a considerable amount of material to cover, and 5 days is a surprisingly short amount of time.

Course types and pricing

Public courses

Public courses are advertised on the [Echoview website](#) and via email to our [mailing list subscribers](#), and will go ahead subject to interest. We typically require a minimum of 5 trainees, and limit our public courses to a maximum of 15 trainees per trainer to ensure a quality training experience.

The price of a 5-day course is USD 2,250/person (USD 1,750/person student rate).

Private courses

We can come to you anywhere in the world at a time of your choosing. Please contact us at sales@echoview.com to discuss the possibility of a private course. This can be the simplest and most cost effective solution if you have a group of 5 or more trainees.



We will provide you with all the necessary materials for your training session

Contact us

For more information about Echoview training, or to organize your next course, please contact sales@echoview.com.