PAMlab

See it. Hear it. Believe it.

Advanced acoustic analysis and real-time data display

PAMlab is JASCO's flagship analysis tool for acoustic data. It lets you visualize, analyze, record, and save sounds, such as:

- Marine animal vocalizations
- Seismic survey pulses
- Vessel and boat noise
- Pile driving and construction noise
- Ambient noise

Getting started is easy: drag and drop a sound file into PAMlab or start your real-time acoustic monitoring. Your acoustic data is displayed as:

- Time series: showing sound pressure amplitudes over time
- Spectrograms: showing the frequency content for any point in time

PAMlab lets you *see* and *hear* your data. Use your computer's sound system to listen to your recordings. It's especially useful for monitoring streaming data in real time. And you can review captured data while still recording new data.

PAMlab integrates seamlessly with JASCO's acoustic monitoring equipment:

- Interfaces directly with the Observer, our underwater observatory, to capture acoustic and oceanographic data in real time
- Readily displays data recorded by the AMAR, our underwater recorder, including the recording start date and time
- Accesses metadata from AMAR deployment files including date, time, and location

PAMlab is comprehensive and customizable, saving time and money on your data analysis.
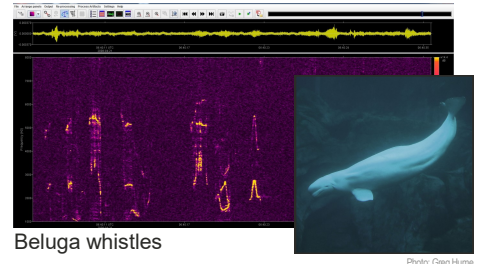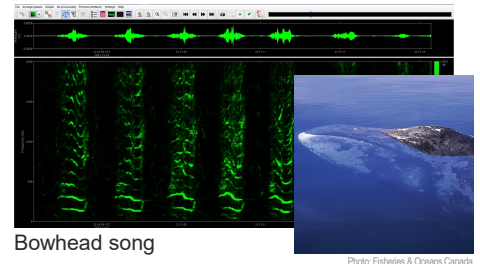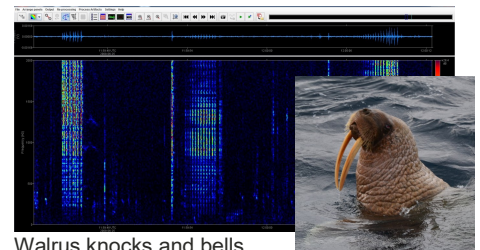
Beluga whistles
Photo: Greg Hume
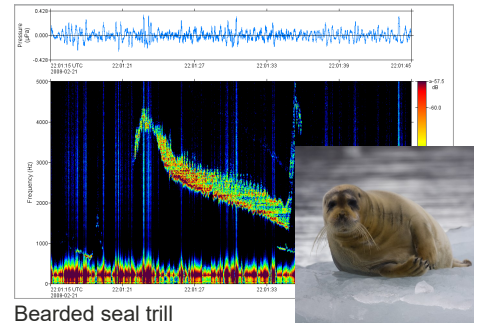
Bearded seal trill

Bowhead song
Photo: Fisheries & Oceans Canada

Walrus knocks and bells

Our specialized bioacousticians use PAMlab to review data to confirm the marine mammal detections and identifications

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Annotations of vocalizations and events

Bookmark (in either time or frequency display) mammal calls or events of interest. You can annotate classification, location, and other metadata. Annotations are stored in easily read text (CSV) files. Existing annotations are re-read and displayed whenever you re-open a data file.
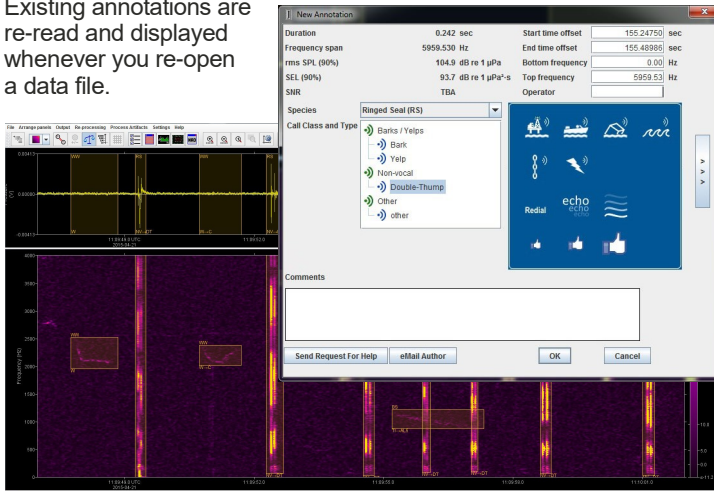

Unlimited file length, multiple formats

The only limit is your hard drive space. Since processed acoustic and spectral data are stored in temporary files on your hard drive, PAMlab can process virtually unlimited durations of data.

Import acoustic data from a variety of audio file formats: WAV, AIFF, MP3, etc. Save your acoustic data as WAV files when streaming data in real time.
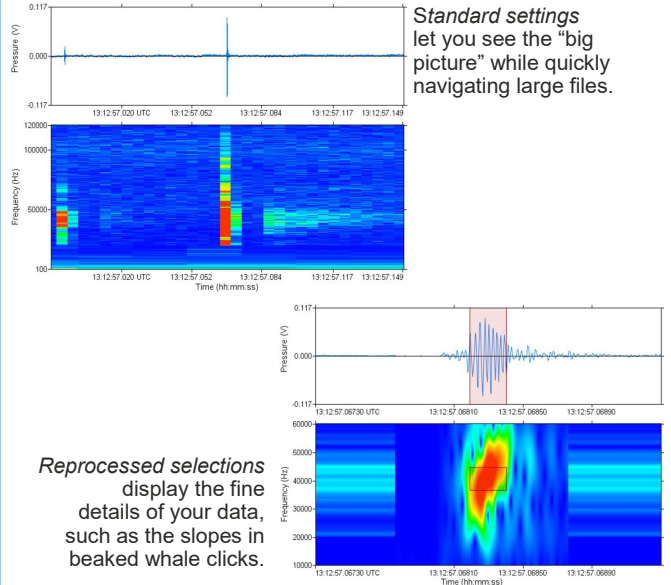
Advanced custom settings

Customize a wide range of important parameters: FFT parameters (resolution, overlap, and windowing), zoom, axis units, scale, colour scheme, log or linear, UTC or local time, etc. You can customize settings to meet your needs for each data file.
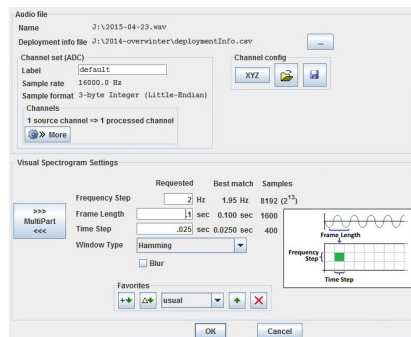

Ad-hoc refinement of acoustic signals

Re-process and refine areas of interest. PAMlab lets you create high-resolution displays inside spectrograms made with standard settings by refining the analytical parameters to drill into important segments.

Standard settings let you see the "big picture" while quickly navigating large files.

Reprocessed selections display the fine details of your data, such as the slopes in beaked whale clicks.

Multiple data channels

View multiple data channels in a single display, even when the sensitivities or gains are different.
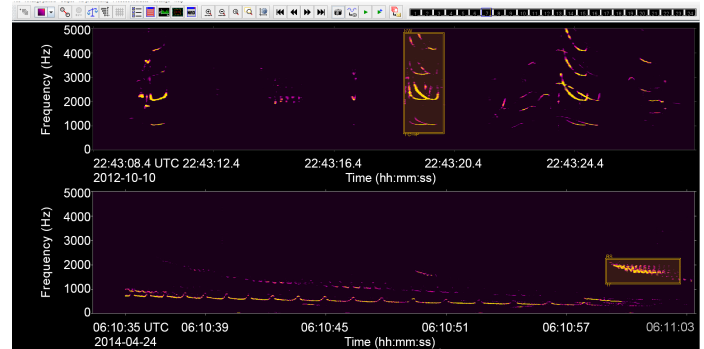
Fully integrated FFTW for high-speed calculations

With a customized build of the FFTW C library, PAMlab makes fast FFT calculations.

Cross-platform support

Run your analysis on Windows, Mac, or Linux. PAMlab is Java-based, so it works on virtually any platform.

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ISO 9001 Certified

For more information, contact your nearest JASCO Applied Sciences office:

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