

Introducing SVP Analyzer: Streamlining Sound Velocity Profile Management for Hydrographic Surveyors

by Jerry Knisley

Introducing SVP Analyzer: A Faster, Smarter Way to Manage Sound Velocity Profiles

For hydrographic surveyors, Sound Velocity Profiles (SVPs) are a critical part of achieving accurate depth measurements. Yet managing SVP data often means juggling multiple instrument utilities, spreadsheets, conversion tools, and file formats. That's why we're excited to introduce **SVP Analyzer**, a new application designed to streamline the entire SVP workflow from collection to export.

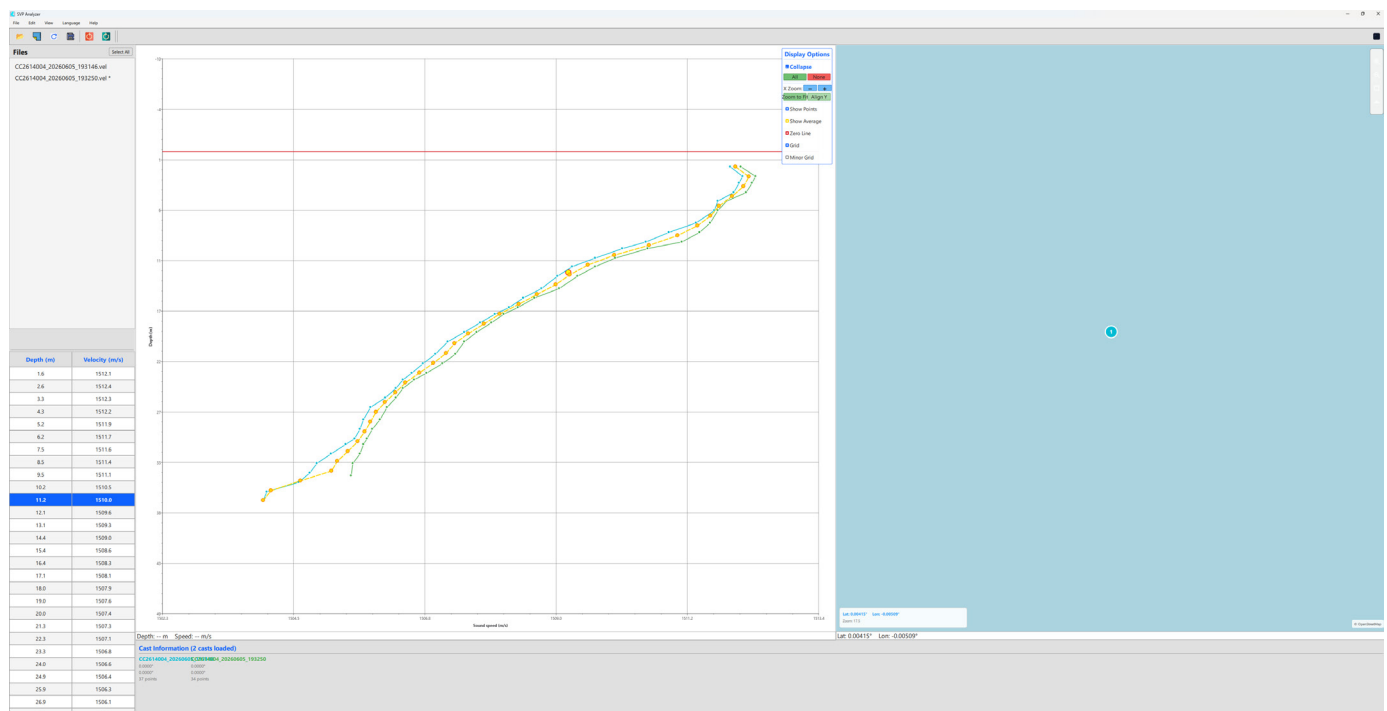
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- Sound Velocity Profile Management
- Multibeam Workflow
- SVP Editing and Filtering

One Tool for Every Cast

Whether your team uses AML, Valeport, CastAway, or a combination of systems, SVP Analyzer brings all of your profiles into a single, unified workspace. Instead of switching between manufacturer-specific software packages, you can import, review, edit, compare, and export all your casts from one application.

The result is a faster workflow, less training, and fewer opportunities for errors.



See Your Data Like Never Before

At the heart of SVP Analyzer is an interactive Sound Velocity Profile chart that makes working with casts intuitive and visual.

Multiple casts can be displayed simultaneously, each with its own color, allowing you to quickly identify differences between profiles. Need to correct an outlier? Simply click and drag a point directly on the chart. Every change is reflected immediately throughout the application.

And if you make a mistake? No problem. Every edit is fully tracked with a comprehensive undo/redo system.

Automatically Create Average Profiles

Many multibeam workflows require an average profile generated from multiple casts collected throughout the day. SVP Analyzer performs this task automatically.

Load your casts, select which ones should contribute to the average, and instantly generate a composite profile ready for export and use in your survey operations.

No spreadsheets. No manual calculations. No guesswork.

Know Exactly Where Your Casts Were Collected

SVP Analyzer includes an integrated map display that shows every cast location using color-coded markers.

The built-in measurement tool allows you to quickly verify spacing between casts, evaluate coverage, and review survey conditions without leaving the application.

Whether you're working from the office or onboard a vessel, your profile data and geographic context are available side-by-side.

Powerful Editing and Filtering Tools

Survey data isn't always perfect. That's why SVP Analyzer includes tools to help clean and refine profiles quickly.

Users can:

- Remove noisy surface data
- Filter by depth or velocity ranges
- Batch process multiple casts simultaneously
- Add or remove individual points
- Build an entirely new profile from scratch

These tools allow surveyors to spend less time manipulating data and more time focusing on quality results.

Built for International Survey Teams

SVP Analyzer supports 22 languages, allowing crews around the world to work in their preferred language without requiring additional software installations.

Language changes happen instantly, making it easy for multinational organizations to deploy the software across diverse teams.

Designed for Modern Survey Operations

SVP Analyzer has been developed using modern Qt technology and native C++ performance. The application launches quickly, handles large datasets efficiently, and scales beautifully from laptops to high-resolution bridge displays.

Features include:

- Dark and Light display modes
- High-DPI monitor support
- Batch processing capabilities
- Fast file loading
- Lightweight memory usage
- Offline operation for core functionality

Why You'll Want It

SVP Analyzer was built with a simple goal: Make working with sound velocity profiles easier, faster, and more consistent.

Whether you're collecting a handful of casts for a small project or managing hundreds of profiles across multiple vessels, SVP Analyzer helps eliminate tedious manual processes and provides a modern environment for reviewing and preparing SVP data.

We believe it will become an essential tool in every hydrographer's toolbox.

Coming Soon

SVP Analyzer will be available as part of the HYPACK product family. Watch upcoming newsletters, release announcements, and webinars for availability details, demonstrations, and training opportunities.

We're excited to see how our users put SVP Analyzer to work in the field.