

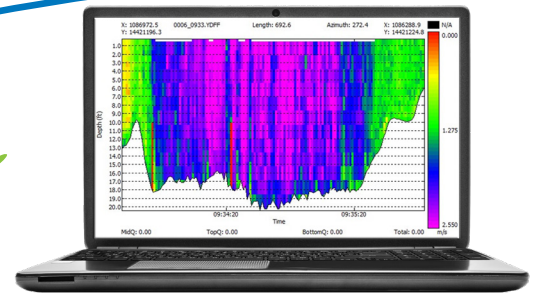


**HYPACK**  
a xylem brand



# HYPACK® Environmental Mapping

SIMPLIFYING DATA COLLECTION, PROCESSING, AND MAPPING THE CHARACTERISTICS OF WATER



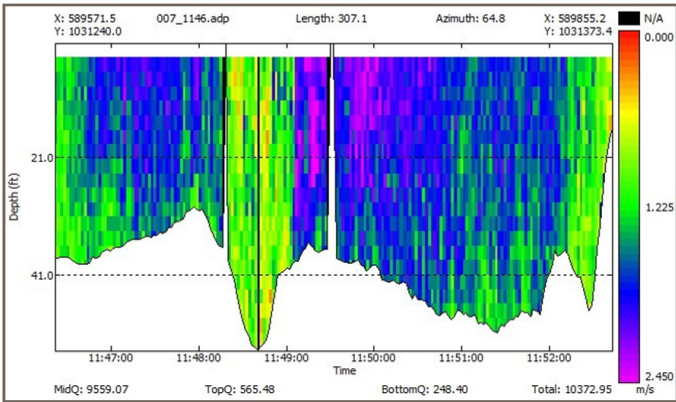
To address the global need to understand and improve marine and aquatic bodies of water through environmental monitoring, we've developed a software package that makes it easier to collect, view and analyze data in both time and space using a diverse selection of sensors. HYPACK® Environmental Mapping software is your solution for mapping water characteristics using water quality sensors and Acoustic Doppler Current Profilers (ADCPs). This robust software collects data streams from vessel-mounted sensors (or stationary sensors) to support the comprehensive mapping of marine and aquatic environments.

Environmental surveys involve a range of sensors, methods, and procedures, and users often need to compare data from different sources or projects. With our software, you can align datasets both geographically and temporally to gain valuable insights about water bodies through the trends and correlations of the measured parameters. The flexibility of our software extends to supporting data collection and mapping from several sensor brands and types. Experience a user-friendly environmental mapping solution that makes understanding and improving our water resources more accessible than ever.

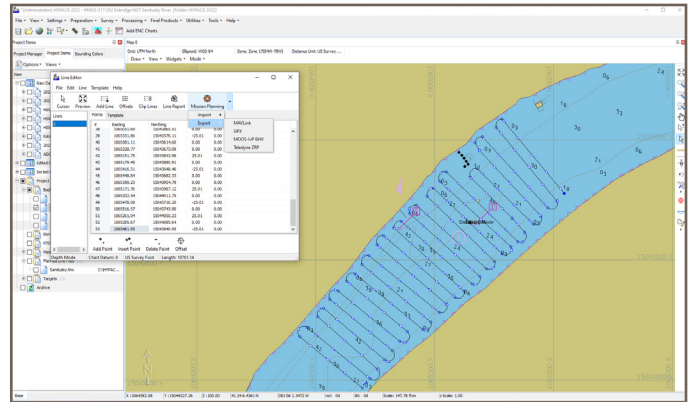


## BENEFITS

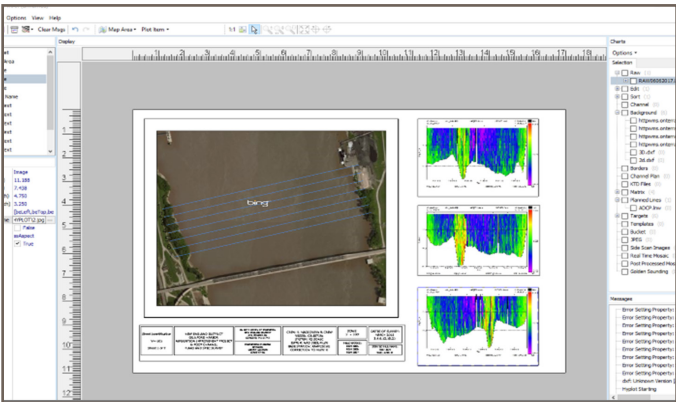
- Simultaneous data collection and editing of measurements from generic sensors.
- ADCP data collection, editing and mapping (velocities, depths, backscatter, and discharge).
- Generate and export plots, charts, and final products to help compare, analyze, and communicate data products.
- Plan surveys, collect various brand sensor measurements with real-time QA/QC, edit and map results all in one software package.



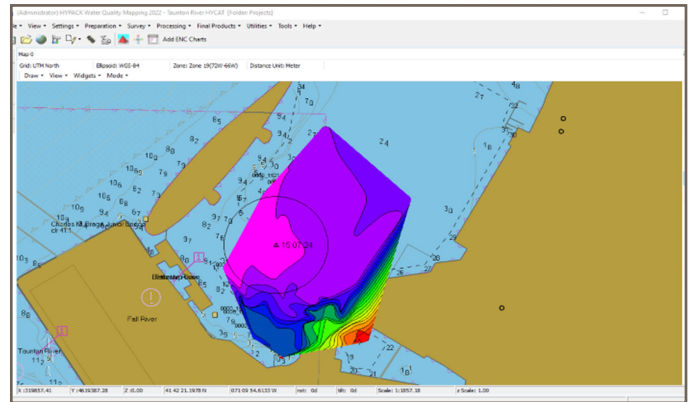
Discharge and velocity measurement for acoustic doppler current profilers.



Mission planning and QA/QC via web browser for autonomous vehicles.



Rapidly create maps and final products with HYLOT to show data from multiple views.



Generate contour maps of environmental parameters such as this salinity plot.

## HYPACK® Environmental Mapping Specific Features and Supported Brands

Survey Planning	HYPACK® Shell: Standard features including mission planning export to MavLINK, Teledyne ZRP, MOOS-IvP and GPX formats.
Geodesy	HYPACK® Geodesy Toolbox: Standard features including pre-defined, country-specific, or custom horizontal and vertical coordinate grid frames and EPSG code support.
Position & Depth Support	HYPACK® SURVEY: Standard features including GPS (NMEA-0183), RTK support, and bottom-tracking DVL; Compatible with POSMV, SBG, Trimble and VectorNAV. Echosounder support for depth values DBT & DPT (NMEA-0183) only.
Autonomous Vehicles	Supports i3XO, HYCAT, Seafloor Systems, ArQPOD and SeaRobotics vehicles.
Acoustic Doppler Current Profilers	Collect with real-time QA/QC or post-process data to map ADCP velocities and multiple-beam bathymetry. Calculate USGS volumetric flow rates. Compatible with SonTek, RDI, Rowe and Nortek instruments.
Environmental Sensors	Collect with real-time QA/QC or post-process data for up to 32 water quality MSI parameters. Compatible with YSI CastAway®-CTD, YSI 6600, YSI EXO Sonde, YSI Turbidity Monitor, WindObserver anemometer and various brands of water level gauges.
Data Products	HYLOT® MAX: Standard features for creating maps and data overlays for reports. Export to CAD or exchange (import/export) data with ESRI.