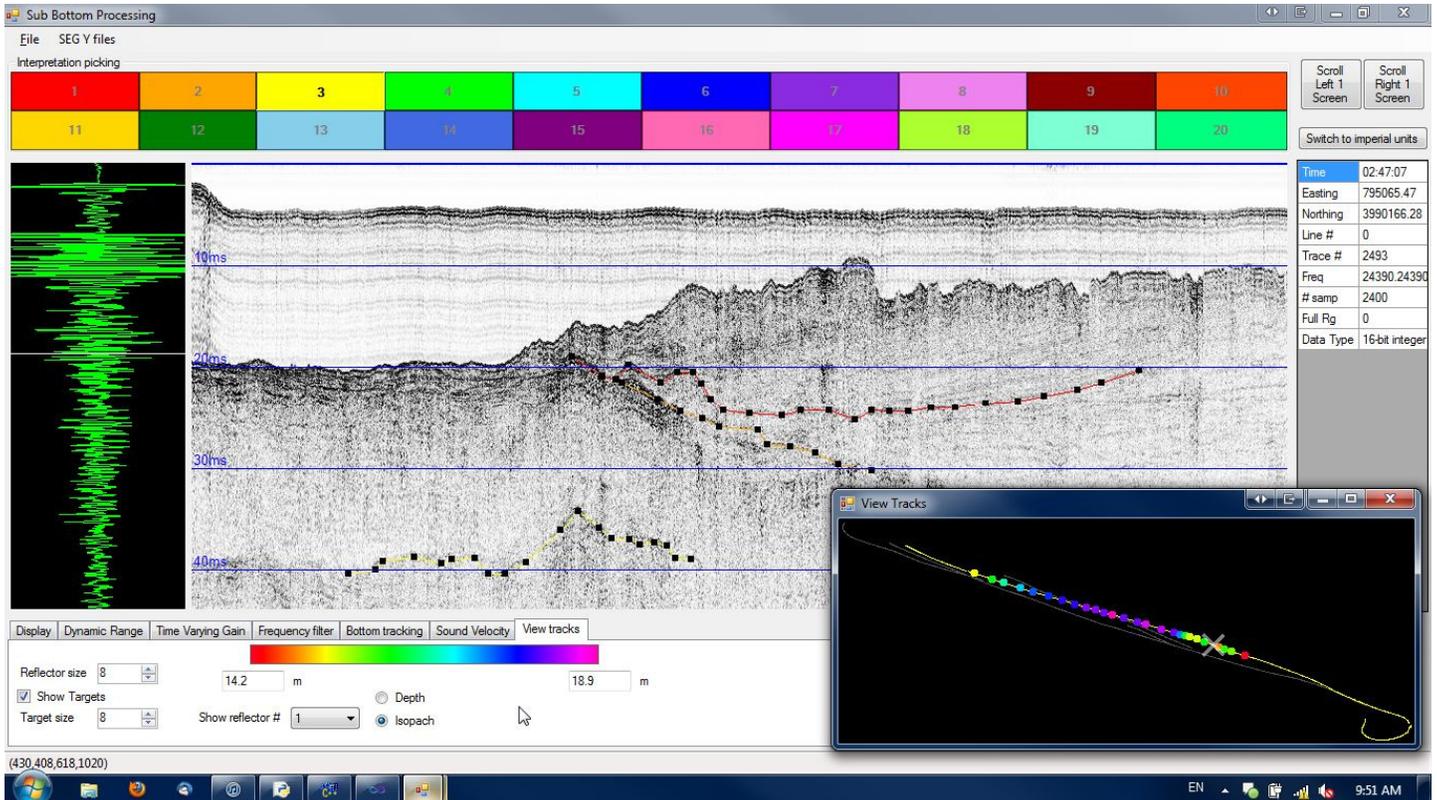


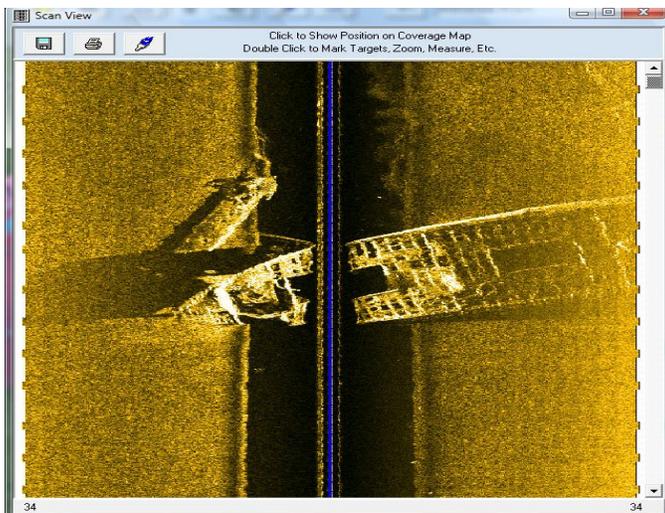


HYPACK[®] ACOUSTIC

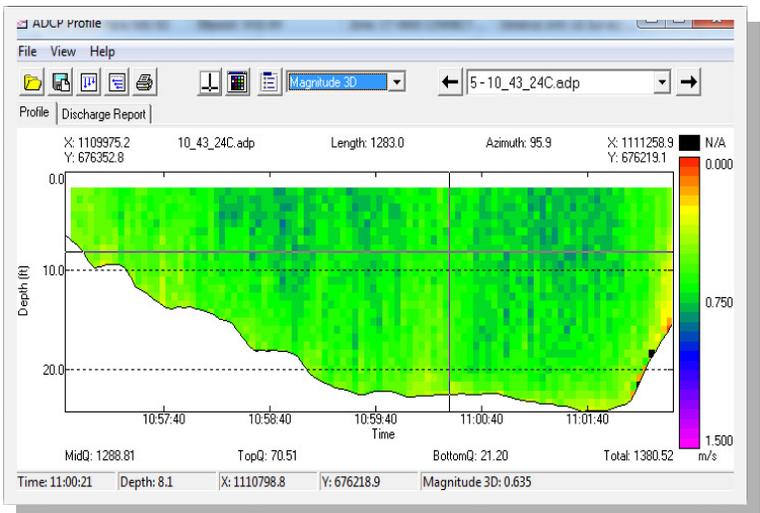
Data processing software for side scan, sub-bottom, and acoustic doppler current profiler systems



Sub-bottom processing showing 3 digitized layers



Screen capture of our HYPACK processing module



ADCP PROFILE program: Provides color-coded flow diagrams and overall flow values

The **HYPACK® ACOUSTIC** package allows you to process data from side scan, sub-bottom and acoustic doppler current profiler systems

SIDE SCAN: The HYPACK® ACOUSTIC package allows you to process side scan sonar, snippets, and backscatter data collected in HYPACK® or data collected by 3rd party systems. Supported formats include:

- HYPACK HSX & HS2
- XTF Side Scan
- CMAX CM2
- Edgetech JSF
- Imagenex 81S
- Klein SDF
- Marine Sonic MST

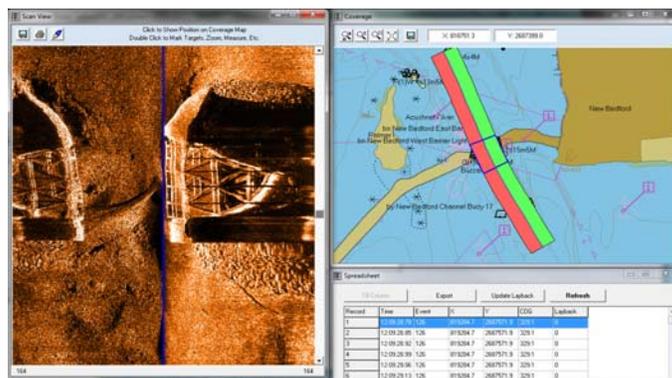
The HYSCAN program allows you to generate detailed mosaics of your side scan imagery and to mark targets in order to generate target reports. In addition, you can use GEOCODER to create advanced mosaics and perform bottom classification.

SUB-BOTTOM: The HYPACK® ACOUSTIC package allows you to edit and review sub-bottom data collected in HYPACK® or other packages that produce industry standard SEG-Y files. You can digitize up to 20 different reflectors and mark targets (position only or position and depth of burial). The SUB-BOTTOM PROCESSING program accounts for different velocities for the water column and ground and provides filters to enhance your data.

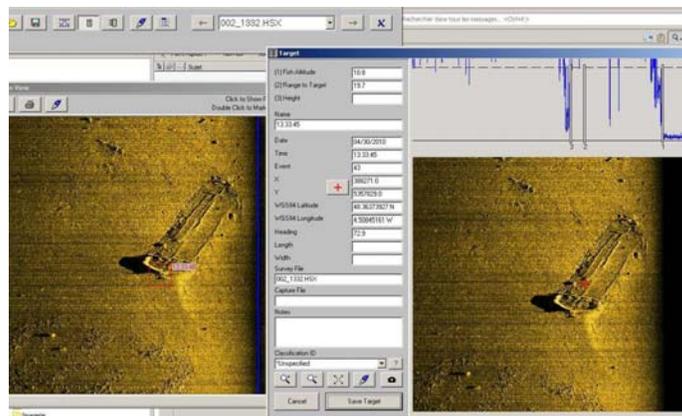
ACOUSTIC DOPPLER CURRENT PROFILERS: The ADCP PROFILE program allows you to analyze data from vessel-mounted ADCP systems and generate flow calculations. It also allows you to perform averaging and to output 2-D or 3-D current vectors. The ADCP IN-SITU program allows you to analyze data recorded by bottom-mounted RDI, Sontek and Nortek profilers. You can generate current diagrams and tide heights for user-defined time increments.

The HYPACK® ACOUSTIC package also includes the HYPACK SHELL for viewing your data; the geodetic engine, which allows you to convert WGS-84 latitude-longitude data to almost any projection; and HYPLOT, the smooth sheet plotting program.

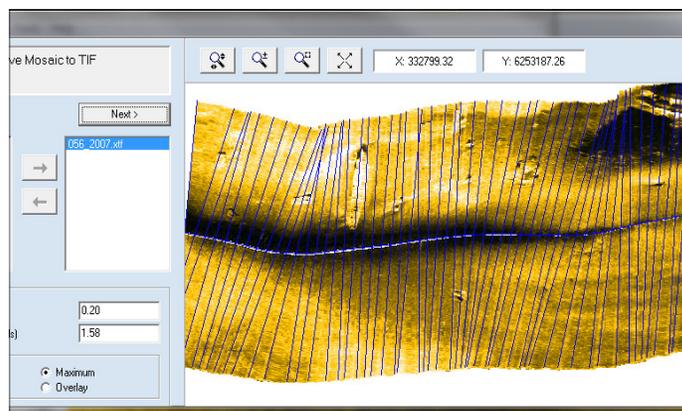
HYPACK® ACOUSTIC can be upgraded to HYPACK® OFFICE and HYPACK® MAX for additional processing and data collection capabilities.



Side scan data in HYSCAN:
Showing trackline, coverage, and spreadsheet information



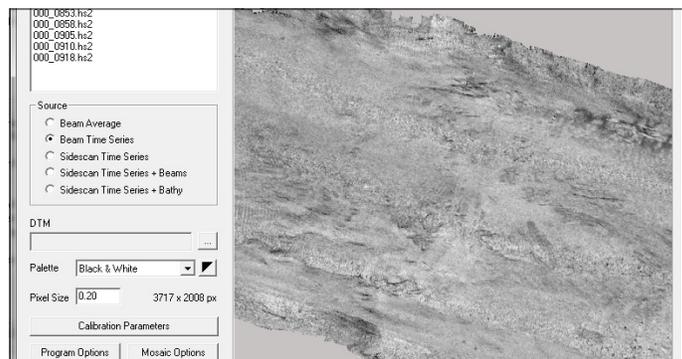
Targeting in HYSCAN:
Measures Targets and creates target reports



Mosaicking in HYSCAN:
Creates GEO-TIF Images of side scan data

HYPACK® ACOUSTIC
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GEOCODER (TM) generates mosaics from side scan data, multibeam backscatter or multibeam snippets. Licensed from UNH-CCOM