OCEANIC IMAGING CONSULTANTS

GeoDAS-LT

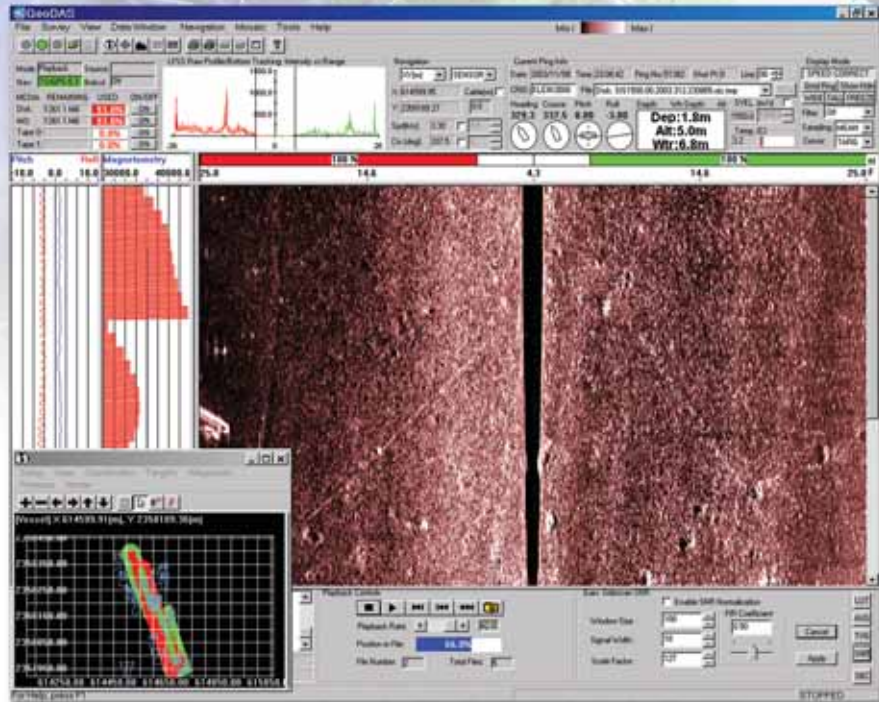## Cost-effective seafloor mapping software

GeoDAS-LT provides a simple, complete and cost-effective solution for hydrographic / geophysical data acquisition and survey management on your desktop or laptop PC.

- GeoDAS-LT software supports acquisition, processing, display and logging of survey data from serial devices such as fathometers, magnetometers, seafloor classification systems and digital sidescans.

- In addition, you can log, clean and merge navigation data, to provide fully geo-coded records and real-time displays.

- Fathometer, magnetometer or seafloor classification data can be logged from serial devices, geo-coded, displayed and gridded in realtime, and exported to ASCII or GIS-ready files.

- GeoDAS-LT can also support digital sidescans with data over a serial interface, such as the Imagenex SportScan series, S-150, C-MAX CM2, Tritech SeaKing and others, providing all the usual advanced GeoDAS processing at a rock-bottom price.

- *New!* GeoCLASS, an embedded seafloor classification system in GeoDAS. This tool allows supervised and unsupervised classification, and can output maps of roughness, hardness or seabed type.

The GeoDAS-LT interface, showing magnetometry and sidescan data on the waterfalls, and survey map with targets displayed on Nav window.

Supported Systems

Single-beam Systems
Odom, Deso, Simrad, Innerspace, NMEA

Sidescan Systems
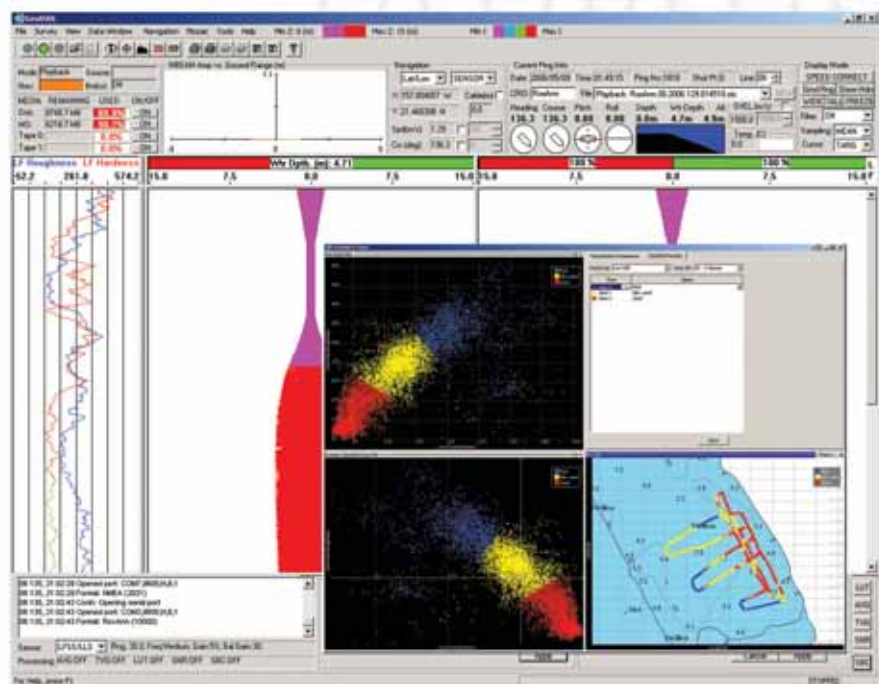Imagenex SportScan

Magnetometers
Geometrics 880/882, Marine Magnetics

Survey Sensors
Any NMEA GPS/gyro, Applanix PosMV, LBL & USBL systems, Most Fathometers, Most motion sensors

Seafloor Classification
ECHOplus, RoxAnn

GeoDAS-LT interface displaying real-time acquisition of RoxAnn seabed classification data, with GeoCLASS classification window in foreground.

Logging

GeoDAS Sonar Acquisition and Processing software capable of logging of up to 8 channels of data, displayed on one user-friendly geocoded graphical interface.

Double-precision data logging and display format allow centimeter accuracy.

Full logging control pop-up to determine output files and media target for acquisition of data.

Real-time Mosaicking

Real-time simultaneous sidescan sonar and multi-beam mosaicking guarantee total survey coverage and quality control of both data sets while still in the field.

Real-time navigation display showing location of the swath, target items, path of the sonar and boat and sonar coverage.

A Finite Impulse Response (FIR) real-time smoothing filter to eliminate spurious and noisy navigation and heading data.

Targets

Geo-coded Target Display with zoom, measurement, comments, classification and automatic databasing of flagged targets with easy thumbnail viewing and auto play back feature.

Processing

Comprehensive on-line suite of processing tools include navigation smoothing, bottom-tracking, slant-range and speed correction.

Tools for bathymetry processing include: heave, pitch and roll corrections, plus draft, tide, and svel.

Project Databasing

Project database creation logs all associated survey records in one directory - no hunting for records!

Meta-data

Complete suite of Meta-data inputs including tidal data, vessel draft correction, cable-out, event generation and sound velocity input.

A configurable output of sonar meta-data to files, ports and printers

Survey Management

User-definable coordinate system, datum & projection; UTM, SPCS (NAD 27 & 83), British Coordinate System, Japanese Coordinate System & more.

Survey design / execution: Create, edit and run surveys, using user-supplied, hand-drawn or auto-gen modes.

New! Charts package support raster (ARCS & BSB) and vector (DNC & S-57) electronic nautical charts.

Bottom Tracking

Automatic or manual, user-definable processing, with hold-off, tracking sensitivity & collision warning alarm.

Auto Range / Depth function automatically tracks and adjusts multibeam range setting and display gates.

Events

Externally or internally generated navigation events, either fixed time or distance, displayed on the waterfall, printer and to the event log. Event information can include number, time, position, water depth, heading, speed and more.
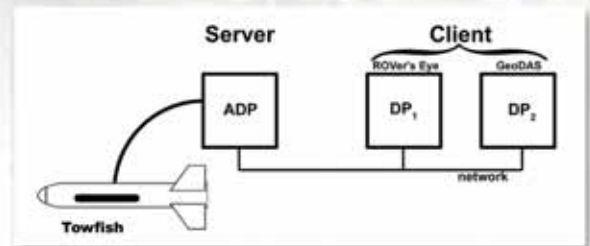
Displays

3-D bathymetric displays with contour / mesh / shading overlay.

Oscilloscope display including ping profile, histogram or spectral display.
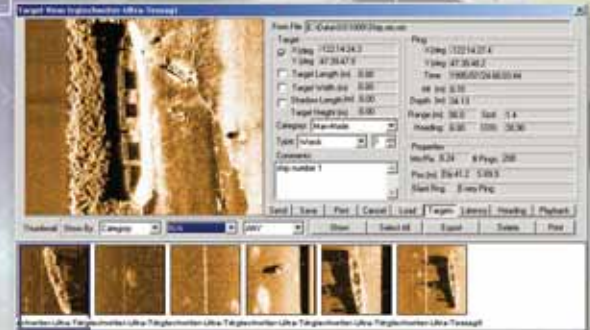
The Targeting window allows zoom, measurement, comments, classification and automatic databasing of flagged targets.

Can also serve as a remote GeoDAS client!

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Survey Sensors
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Seafloor Classification
ECHOplus, Roxanne

Complete Data Acquisition Packages Available!

Integrated Rugged Monitor, Keyboard, Mouse and CPU.

Disk, Tape and Magneto-optical logging options plus CD/DVD-RW archive.

Rack-mountable & ruggedized packaging.

User-specified sonar and integrated software packages available.

Oceanic Imaging Consultants, Inc.

1144 10th Avenue, Suite 200
Honolulu, Hawaii 96816-2442
Phone: (808) 539-3706 Fax: (808) 791-4075
Email: info@oicinc.com   Web: www.oicinc.com