OCEANIC IMAGING CONSULTANTS

GeoDAS

Geophysical Data Acquisition System
Software for surveyors, by surveyors

Data visualization, target acquisition, mosaicking and 3D bathymetry, all in real time. Target marking, gains, sensor tuning, all automatic. You want simple, real-time results. That's where we come in.

GeoDAS, running on Windows NT/2000/XP, can acquire, log and process sidescan, multi-beam, sub-bottom and interferometric sonar data, along with all associated navigation, attitude and meta-data, providing fail-safe logging while still offering real-time processing and data interactivity second to none.

- ***New:*** ***Survey Management Package*** supports design, editing and execution of survey run lines. Survey planning module includes free charts of the world, and bathymetric and world-vector shoreline databases.

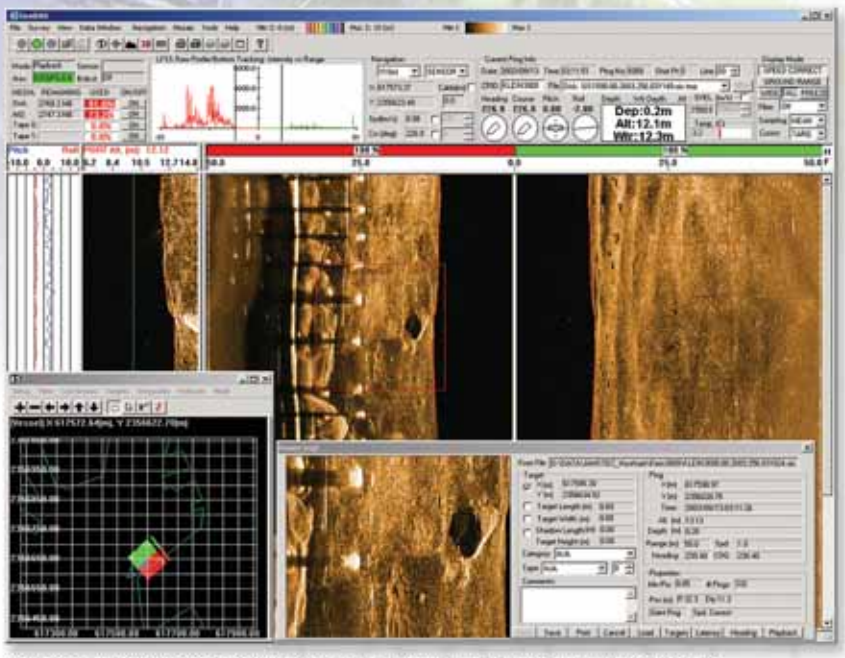
- ***New:*** ***Chart Support feature*** allows loading of raster and vector nautical charts in GeoDAS. Watch your survey evolve directly over ARCS, BSB, DNC and S-57 charts, with full control of chart background, objects and transparency.

- ***New:*** ***SmartSonar***™: Automated tuning of both sensor and display.

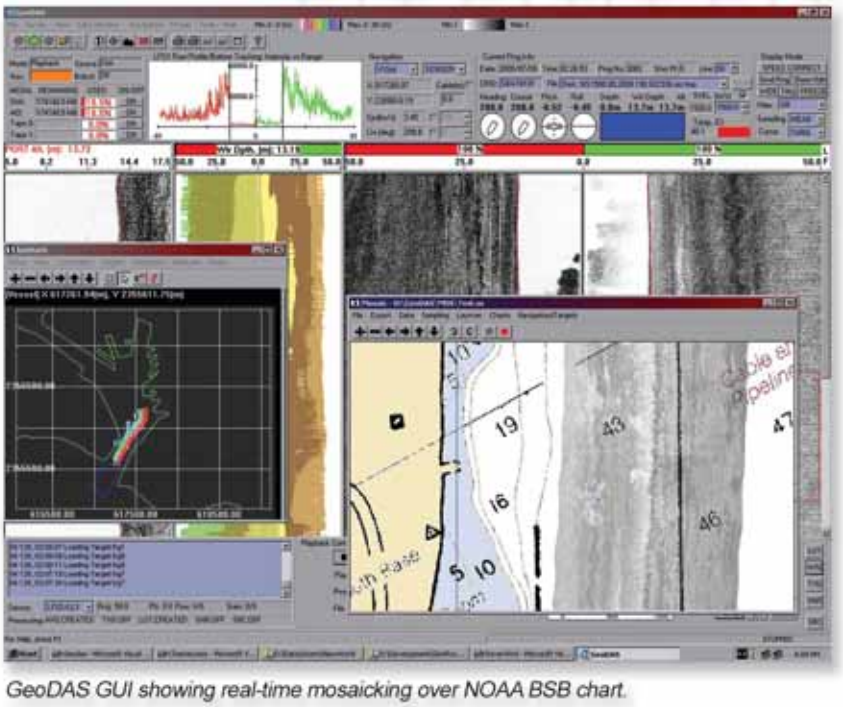
- ***Real-Time Mosaics!*** Create real-time, co-registered mosaics of up to four layers of sidescan, backscatter, bathymetry, magnetometry or seabed type at arbitrary resolution, orientation and size.

- ***Client-Server Mode*** allows GeoDAS to broadcast records over a network or serial connection in real-time to a remotely located GeoDAS Client terminal, allowing real-time viewing, processing and mosaicking of data, all independent of the raw logging.

- GeoDAS now supports Google Earth!



GeoDAS GUI showing Klein 3000 sidescan data of Honolulu Harbor, with vector shoreline displayed over survey coverage map, and target window with target shown at 2x zoom.



GeoDAS GUI showing real-time mosaicking over NOAA BSB chart.

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Features and Specifications

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 playback feature.

Processing
Comprehensive on-line suite of processing tools include navigation smoothing, heave, pitch and roll corrections, plus draft, tide, and svel, bottom-tracking, slant-range and speed correction.

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.

Sidescan Systems
AMS / SeaMARC, Benthos / Datasonics, C-MAX, EdgeTech / EG&G, Klein, RDI - BSSS, DSME S-150, Imagenex, Ultra Electronics Deepscan

Multibeam Systems
Atlas Hydrosweep, Odom Echoscan, Reson SeaBat, SeaBeam / Elac, Simrad EM series, Imagenex Delta-T

Synthetic Aperture Sonar
DTI PROSAS

Optical Systems
Raytheon Laser Linescan, SAIC Laser Linescan, Electronic Still Cameras, Arete Streak LIDAR

Survey Sensors
Any NMEA GPS/gyro, Applanix PosMV, LBL & USBL systems, Marine Magnetics SeaSPY, most fathometers, most motion sensors

Seafloor Classification
ECHOplus, RoxAnn

Complete Data Acquisition Packages Available!

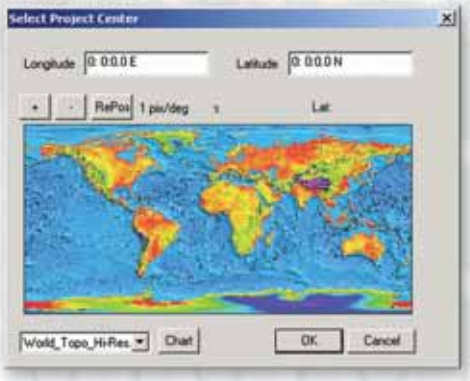
Integrated Rugged Monitor, Keyboard, Mouse and CPU.

Disk, Tape and Magneto-optical logging options.

Rack-mountable & ruggedized packaging.

User-specified Sonar with integrated software package.

The Targeting window allows zoom, measurement, comments, classification and automatic databasing of flagged targets.



New Survey Management option includes built-in map of the world, plus ocean depth and shoreline.

The RTM option displays a real-time evolving mosaic with vector shoreline data, with target data superimposed.

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