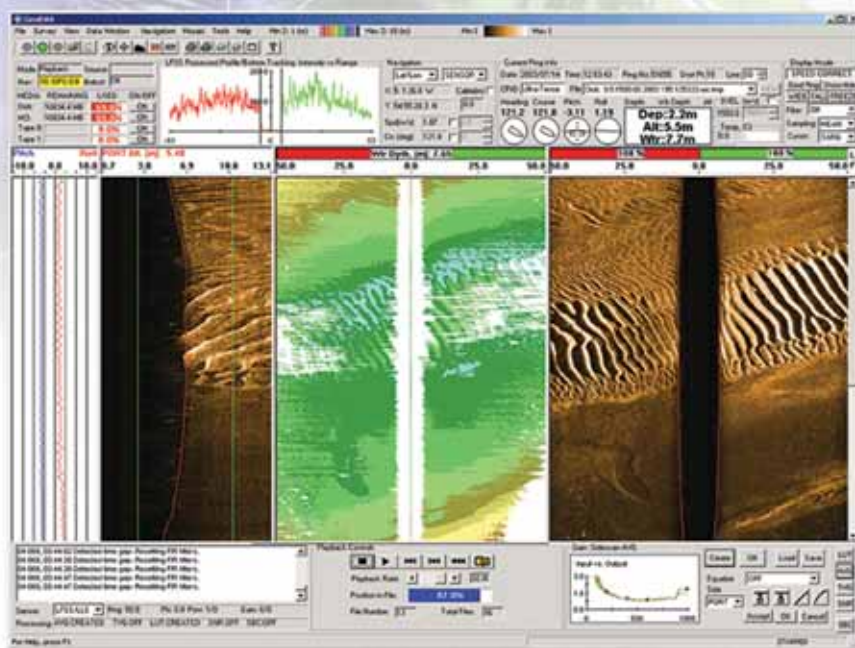
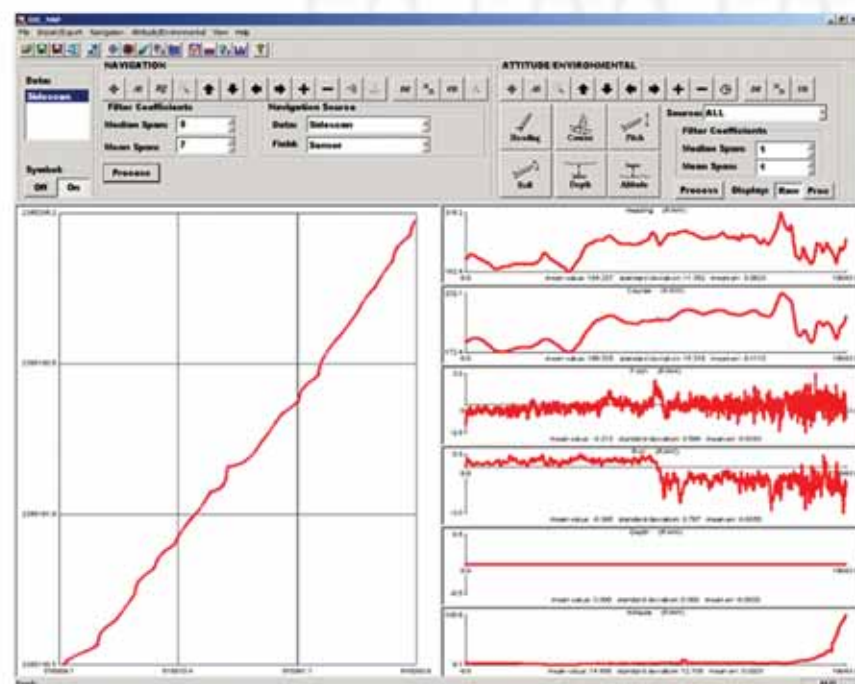


GeoDAS-Desktop provides a simple, complete and cost-effective solution for playback, re-processing and mosaicking of sidescan, bathymetry and laser linescan data on your desktop or laptop PC.

Cost-effective Sonar Data Processing Software



The GeoDAS-Desktop reads raw sonar data in a variety of common formats.



OIC_NAP allows reprocessing and export of navigation and attitude data

Playback Processing

GeoDAS-Desktop reads raw sonar data in many common formats, and displays fully geo-coded sidescan imagery and bathymetry data with processing and enhancement options.

All displays geo-coded for targeting and mensuration.

Sidescan processing options include enhancement of image gain and contrast, suppression of beam-pattern artifacts, interactive bottom track editing, and an infinite variety of color maps.

Bathymetry processing options include draft, tide and sound velocity correction, beam editing, and attitude bias and latency compensation.

Navigation Processing

The Navigation and Attitude Processing module (OIC_NAP) allows import, reprocessing, and export of navigation and attitude data, cleaning spikes and interpolating gaps to provide superior data for playback.

Datum conversion and re-projection: LON/LAT, UTM, SPCS, OSGB and more.

Mosaicking and Charting

Supports mosaicking of sidescan and bathymetry data at any resolution.

Double-precision data processing allows millimeter accuracy and resolution in mosaics.

New: Export to image and GIS-ready formats: GeoZUI, Google Earth, ERMapper, ARCInfo, ASCII, etc.

Navigation & Attitude Processing

Convert navigation to course and speed.

Apply navigation latency via time or ping numbers.

Selectable datum and projections: UTM SPCS, OSG and more.

Process ship's navigation data to yield smooth position, course and speed.

Attitude and environmental bias and scale transformations and latency adjustments.

Corrects biases in pitch, roll, heading, course, etc.

User-definable tide corrections including custom tide table creation

Post-acquisition adjustment of vessel-sensor offsets, umbilical, and cable-out, using constant, recorded or user-supplied values.

Draft input and corrections including settlement and squat adjustment as a function of vessel speed.

Import and Export

Importing and exporting using ping number or time of all meta-data inputs including heading, course, speed, pitch, roll, heave, sensor altitude, water depth, cable-out, vessel/sensor position, tide, draft, magnetometer, USBL and more.

Output of finished mosaics in a variety of image and GIS-ready formats.

Playback

Manual or automatic bottom-tracking; user-definable source, holdoff & sensitivity.

Profile, waterfall, and 3-D scrolling modes provide alternative views of the data.

"Quickview" allows playback rates up to 1000 times faster than acquisition.

Apply processing steps while data is scrolling.

Image Correction & Enhancement

Gain, contrast, beam-pattern editing and artifact suppression.

Mosaicking

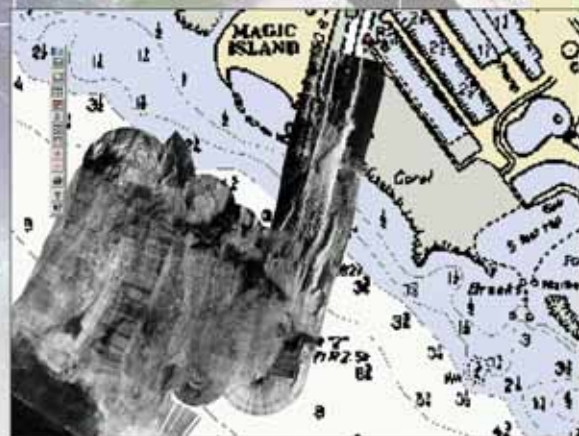
Create digital mosaics of sidescan (low and high frequency) and multi-beam (amplitude and bathymetry) data simultaneously, using smoothed and corrected data output from OIC_NAP.

User defined mosaic setup options including beam-width, mosaic resolution, size and orientation. No hard limits on mosaic resolution or size.

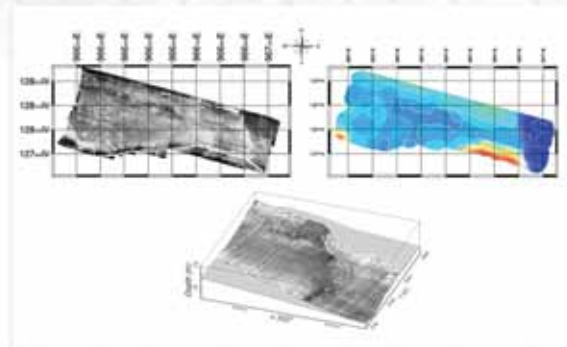
Mosaic sampling (pick, mean, max, min) and layover (first, last, max, min, average) options give the user complete flexibility in display and presentation preference.

Target Display

Geo-coded Target Display with zoom, measurement, comments, classification, and automatic data-basing of flagged targets with easy thumb-nail viewing and auto playback feature.



Sidescan mosaic at 6-inch resolution of the Ala Wai channel and reef in Honolulu, Hawaii.



Odom Hydrographic Echoscan data processed, mosaicked and rendered with GeoDAS-Desktop and exported as a DTM at half-meter resolution sidescan mosaic to ER Mapper and OICMap.

Formats Supported

Sonar Format Readers include, but are not limited to:

OIC, MSTL, C-MAX, QMIPS, XTF, Klein, Trittech, & Imagenex

Export Formats include:

XTF, Unisips, SEG-Y, Google Earth (.kme), ERMapper, GeoTIFF, and GeoZUI

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