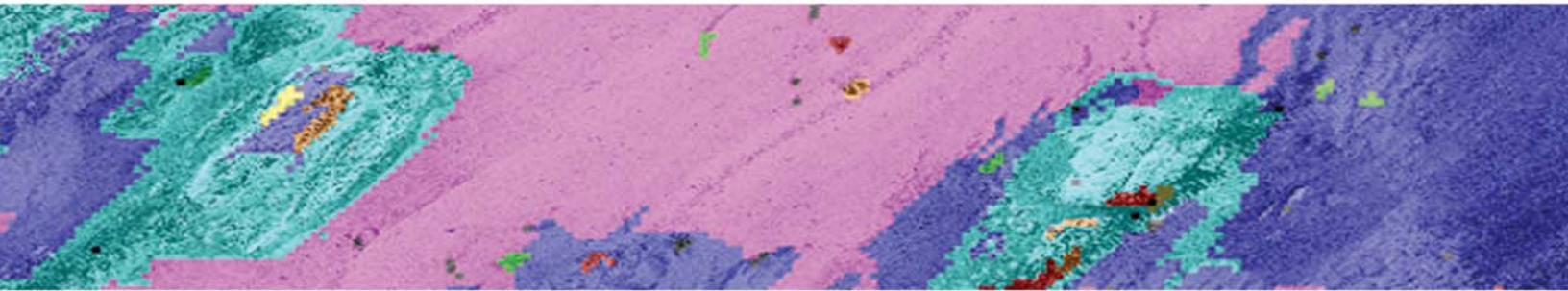


OIC Class

Image & Terrain Classification Software



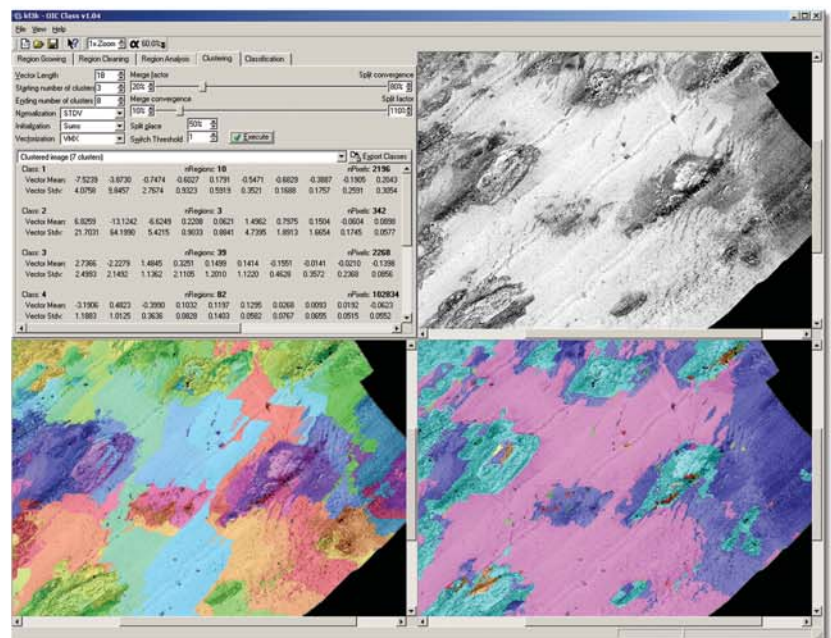
Habitat Classification

Image Analysis

Sidescan & Multibeam Data

Supervised or Unsupervised

OIC Class provides a tool for analysis and classification of sidescan and swath bathymetry data. The program is capable of injecting mosaics from OIC's GeoDAS data acquisition software, as well as STD bitmaps. Data driven image segmentation automatically defines feature boundaries. A "Region Growing" algorithm evaluates the image segment data mean and standard deviation to help define natural boundaries of the image, providing superior classification results.



Features & Benefits

Reads OIC mosaics from GeoDAS or post-processing, plus STD bitmaps

Works with both sidescan and bathymetry

Supports user-guided training, plus unsupervised classification

Data-driven image segmentation automatically defines feature boundaries

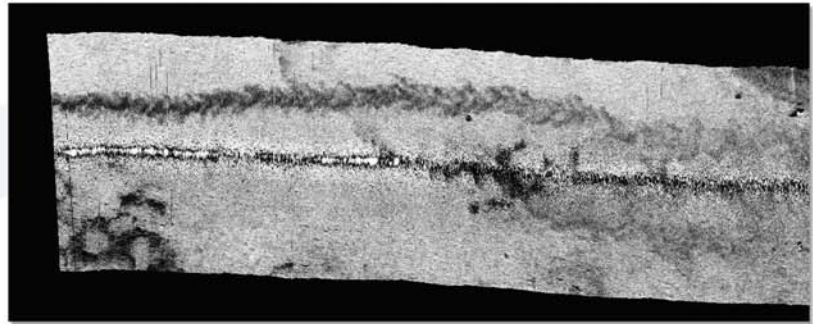
The "Region Growing" algorithm evaluates the image segment data mean and standard deviation to help define natural boundaries of the image, providing superior classification results

User-selectable features include texture, backscatter and fractal dimension

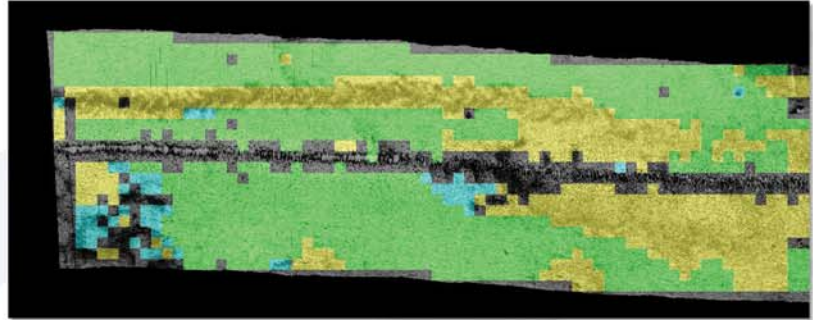
Unsupervised classification supported by K-means and vector basis functions

User-guided supervised training supported by variance-limited Bayesian classifier

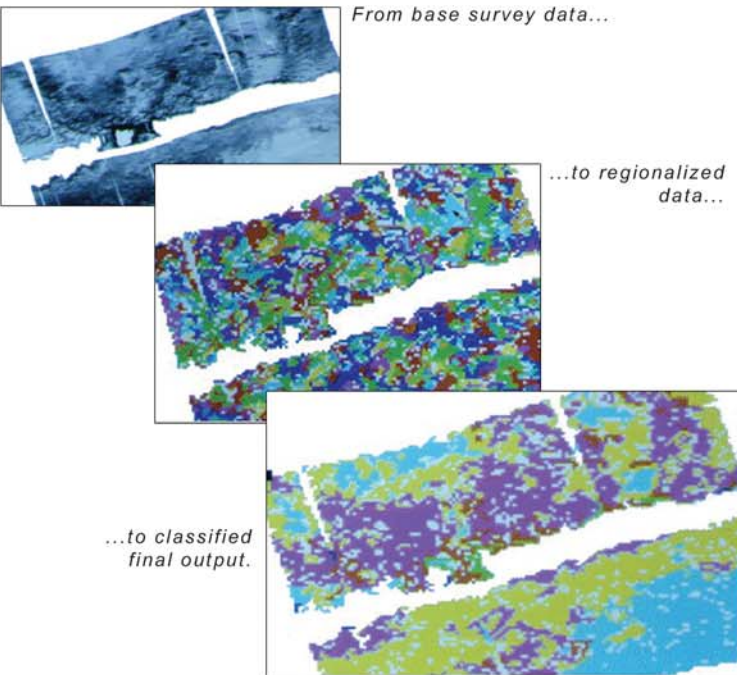
Help Wizard provides the user with on-the-fly menu and command explanations



100 KHz sidescan sonar imaging, showing vessel wake.



Detection and classification of vessel wake, using OICclass.



Sample Images

The image samples of *OICclass*' data classification above show how the OIC "Region Growing" algorithm evaluates a sidescan sonar image, detecting variations in the data to provide superior classification. The first image is a sidescan image of the seafloor, the second is the same processed image, with classification automatically applied.

Recommended Hardware

Windows 2000 / XP

Pentium 3, 800 MHz+

512 MB RAM



Oceanic Imaging Consultants, Inc.

Founded in 1993, OIC provides seafloor mapping software, systems and services to the world's military, government, commercial, and academic markets. With a solid understanding of the requirements of the hydrographic community and an emphasis on providing quality customer support, OIC should be your first stop for all of your seafloor mapping needs.



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