

QTC

CLAMS™

Computer Simulation of Mississippi River Bed, data generated by QTC CLAMS

## Software for Data Interpolation, Visualization & Mapping

QTC CLAMS™ (CLAssification Mapping Suite) is a software utility package that embodies techniques for mapping, visualization and presentation of discrete point data. These techniques include interpolation, gridding and complexity analysis. Unique to the product is the ability to perform categorical interpolation of any spatial data. The software grids the data, interpolates between data points, generates various map views and exports the data as maps or as ASCII data tables.

Data types read by QTC CLAMS include:

- QTC data formats (.seabed and .dat files)
- Other acoustic class data such as RoxAnn or ECHOplus E1 and E2 data
- Non-acoustic xyz data such as video class data or grab sample class data

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Expertly fills data gaps using proven algorithms

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Reads ASCII data

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Loads 10,000 records in 10 seconds

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Simple and easy to use graphical interface

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Achieves results in seconds

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Novel visualization for improved data analysis

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Data exported to .tif, .jpg, .png, GeoTIFF, ASCII or Surfer®

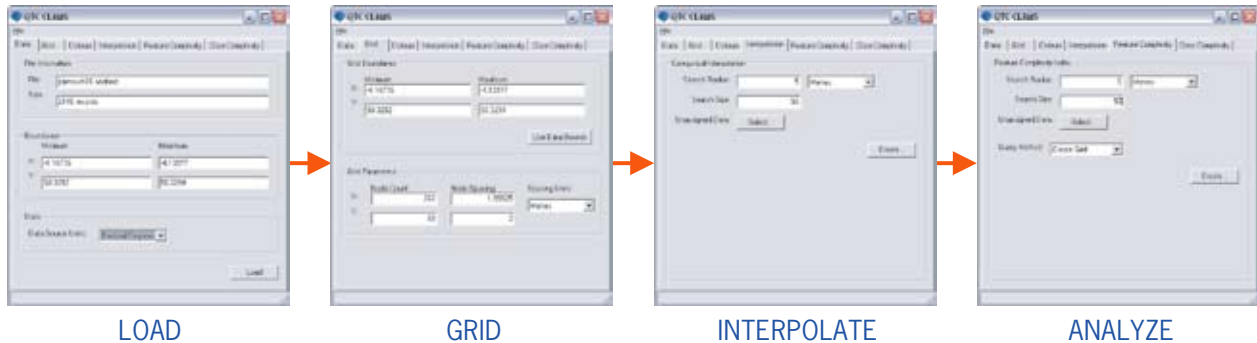
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## Processing Flow



## Capabilities

### Categorical Interpolation

*Intelligently "Filling in the Gaps"*

Quester Tangent developed QTC CLAMS to provide a method that more accurately fills the gaps between data organised in discrete classes. Traditional interpolation routines approach discrete classes using linear functionality, which introduces potential inaccuracy. For instance, an identified "Class 2" may or may not spatially fall between "Class 1" and "Class 3", but linear interpolation will always place a 2 between 1 and 3. QTC CLAMS utilises an interpolation routine to accommodate categorical class data, both acoustic and non-acoustic.

### Similarity Colors

*Assigns colors to classes based on their acoustic diversity*

Acoustically similar classes are painted with similar colours as opposed to the traditional approach of assigning discrete colours to classes. This provides for much improved visualisation of a classification map as there is meaning associated with specific colours. Colours can also be user-defined or set using a catalogue.

### Computer Requirements (Minimum)

- Windows NT, 2000 or XP
- 800 MHz
- 512 MB RAM

## APPLICATIONS

- Extending point and line coverage to full coverage
- Correlating remote sensing data with sample data
- Mapping sea floor complexity
- Creating map graphics for reports and publications

### Feature and Class Complexity

*Two different ways to measure the nature of change over a specific area*

QTC CLAMS uses a grey scale image to show feature or class complexity. Feature complexity is the variance of Q-values or E1 and E2 over an area and class complexity is how much the classes vary over an area.



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GSA Registration - For US government buyers registration #: GS-24F-0011J