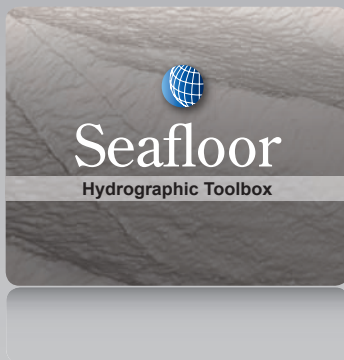


Geocap

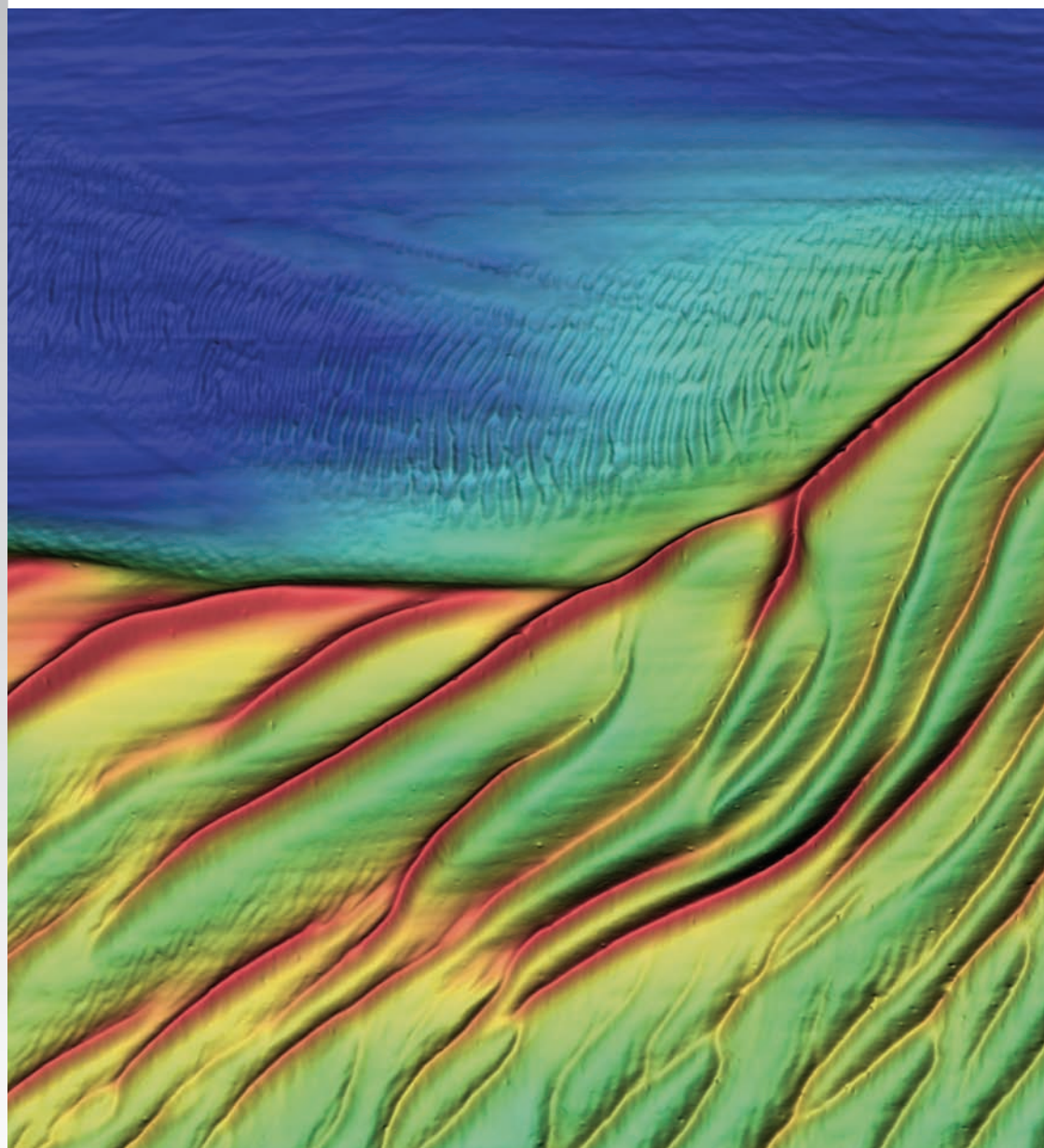


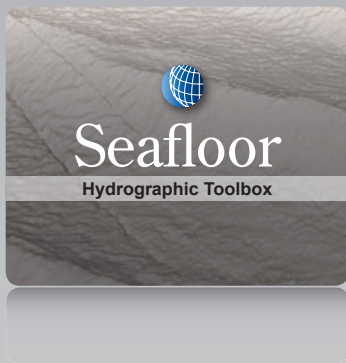
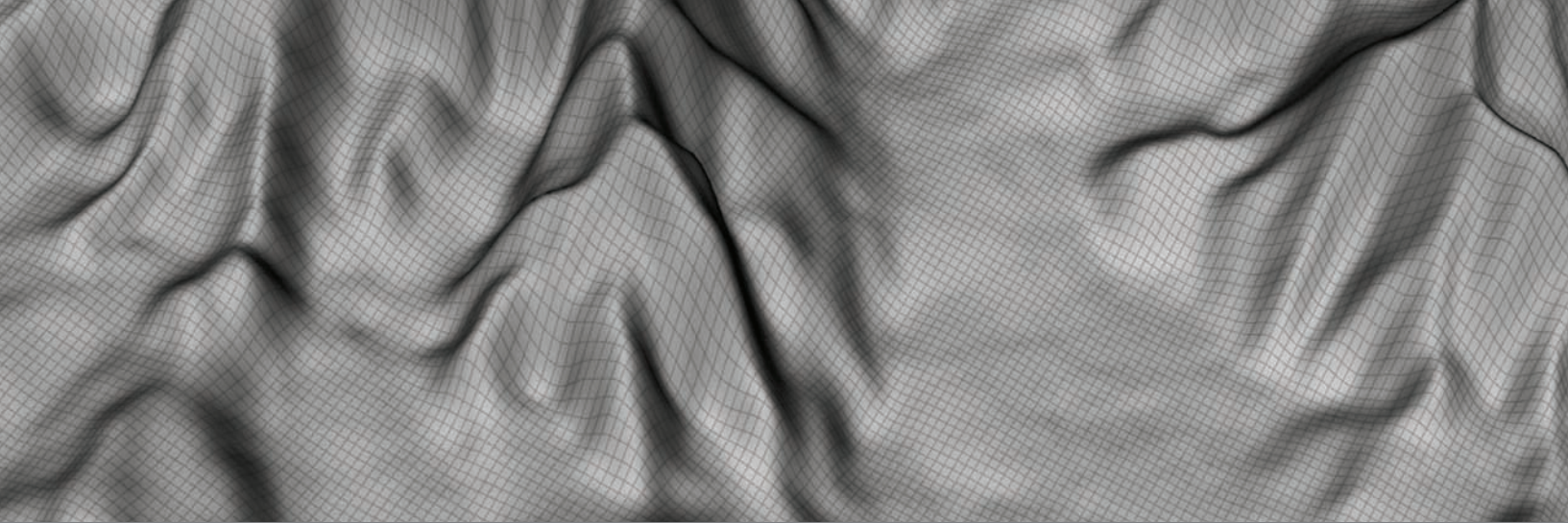
Features

- Processing of multibeam and singlebeam data
- Navigation and sensor data processing
- Filtering, editing and point classification
- Tide correction
- Transformation between all major coordinate systems
- Gridding with statistical filtering
- CUBE
- Export contours, DTM (as BAG), points and polygons
- Seismic visualization and interpretation
- ArcSDE and Oracle Spatial support

Seafloor

Geocap Seafloor provides processing of survey data from multibeam echo sounders and XYZ data to create high resolution grids for large datasets. The strict project organization simplifies the way to build effective product lines. Offers three levels of user interaction, to support novice and experts





Geocap Seafloor

Import formats :

- *.all datagrams
- GSF
- MB system formats
- xtf datagrams
- ...and several others.

Export:

- Contours and contour areas
- Surfaces / DTM
- Points, flagged points, classified points
- Polygons

Additional Features:

- Mathematical functions
- PDF 3D export
- Flight tours
- Scripting language
- ... and more

System requirements:

Platform:

Windows 7, Windows Vista, Windows XP, Linux

RAM:

1GB minimum, 2GB recommended

Graphics:

512 MB

Filtering

Seafloor offers several ways to filter soundings, such as statistical filter and binning methods.

CUBE

CUBE (Combined Uncertainty and Bathymetric Estimator), is an error-model based, direct DTM generator that estimates the depth plus a confidence interval directly on each node point.

Point classification

Points can be analyzed, classified and extracted as shallow, deep, ridge, valley and saddle points.

Gridding

Seafloor supports several gridding algorithms with filters such as standard deviation, absolute and relative.

Navigation processing

Navigation can be filtered for spikes and smoothed to replace raw navigation.

Multibeam processing

Soundings can be manually edited in 2D or 3D or

filtered using thresholds. Points can be flagged and retained so that they can be brought back into the model. Seafloor handles refraction and supports time delay corrections.

Tide correction

Correction of data using tide tables.

Sensor data

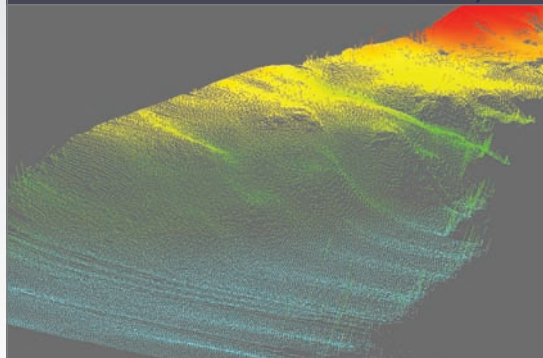
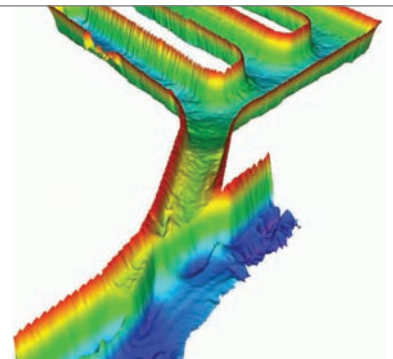
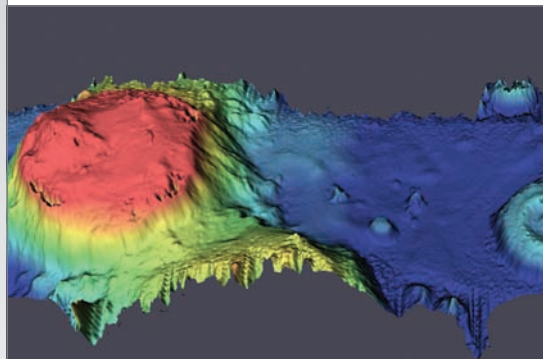
Sensor data like heave, pitch, roll and gyro can be viewed in both 2D and table view. The data can be edited and corrected for calibration constants and time delay.

Geodesy

All major coordinate system are supported, making it easy to transform datasets.

Chart manager

The chart manager is used to split up large datasets into different sections making it easy to work with the data. This also makes the display and gridding of datasets a lot faster.



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