

# General Bathymetric Chart of the Oceans (GEBCO)

## Global bathymetric data sets and products

[www.gebco.net](http://www.gebco.net)



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The GEBCO community consists of an international group of experts who work on the development of a range of bathymetric data sets and products with the aim of providing the most authoritative publically-available bathymetric data sets for the world's oceans. It operates under the joint auspices of the International Hydrographic Organization (IHO) and Intergovernmental Oceanographic Commission (IOC) of UNESCO.

### GEBCO's gridded bathymetric data sets

GEBCO's latest bathymetric product is a global 30 arc-second interval grid. It is largely based on database of ship track soundings with interpolation between soundings guided by satellite-derived gravity data. Where they improve on this 'base grid', data sets developed by other methods have been included.

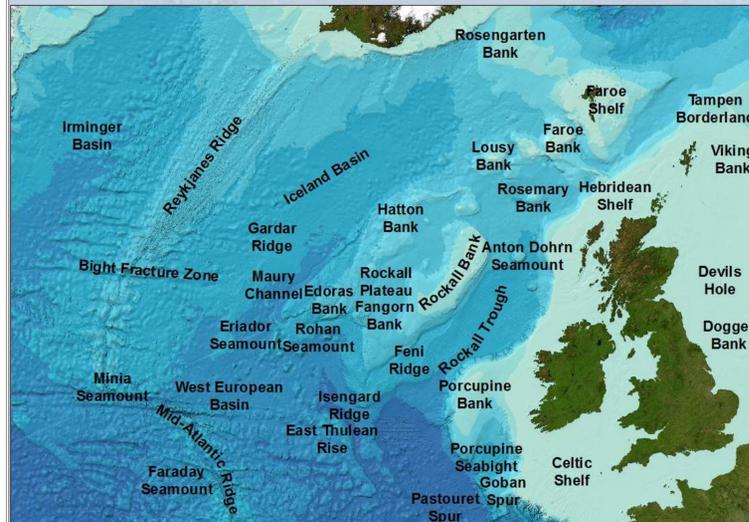
GEBCO aims to continually update its global grid file, working with regional experts to build an authoritative global bathymetric model.

**A new version of the grid is scheduled for release in 2013 (GEBCO\_2013).** This will include a number of new data sets, e.g. the International Bathymetric Chart of the Arctic Ocean (IBCAO); the International Bathymetric Chart of the Southern Ocean (IBCSO); waters around Australia and data from the Lamont-Doherty Earth Observatory's Global Multi-Resolution Topography (GMRT) Synthesis.

The GEBCO grid is accompanied by a Source Identifier (SID) Grid, showing which cells are based on soundings or existing grids and which are interpolated.

GEBCO's grids are available to download from the internet in netCDF form: [www.gebco.net/data\\_and\\_products/gridded\\_bathymetry\\_data/](http://www.gebco.net/data_and_products/gridded_bathymetry_data/)

Free software for viewing and accessing the grids in netCDF and ASCII: [www.gebco.net/data\\_and\\_products/grid\\_display\\_software/](http://www.gebco.net/data_and_products/grid_display_software/)



Plotting names from the GEBCO Gazetteer of Undersea Feature Names

Find out more about GEBCO's regional mapping work and collaborations: [www.gebco.net/regional\\_mapping/](http://www.gebco.net/regional_mapping/)

### Gazetteer of Undersea Feature Names

The GEBCO Sub-Committee on Undersea Feature Names (SCUFN) maintains and makes available a gazetteer giving the name, geographic location and extent of features on the sea floor.

Currently accessible in spreadsheet form, work is in progress to make the data set available in GIS-friendly formats such as shapefile and KML and as a web service.

The gazetteer can be downloaded from web along with further information about SCUFN and the work they do in the governance of naming undersea features:

[www.gebco.net/data\\_and\\_products/undersea\\_feature\\_names/](http://www.gebco.net/data_and_products/undersea_feature_names/)

### Some of our other products and services

#### IHO-IOC GEBCO Cook Book

A technical reference manual on how to build bathymetric grids  
[www.gebco.net/data\\_and\\_products/gebco\\_cook\\_book/](http://www.gebco.net/data_and_products/gebco_cook_book/)

#### GEBCO world map

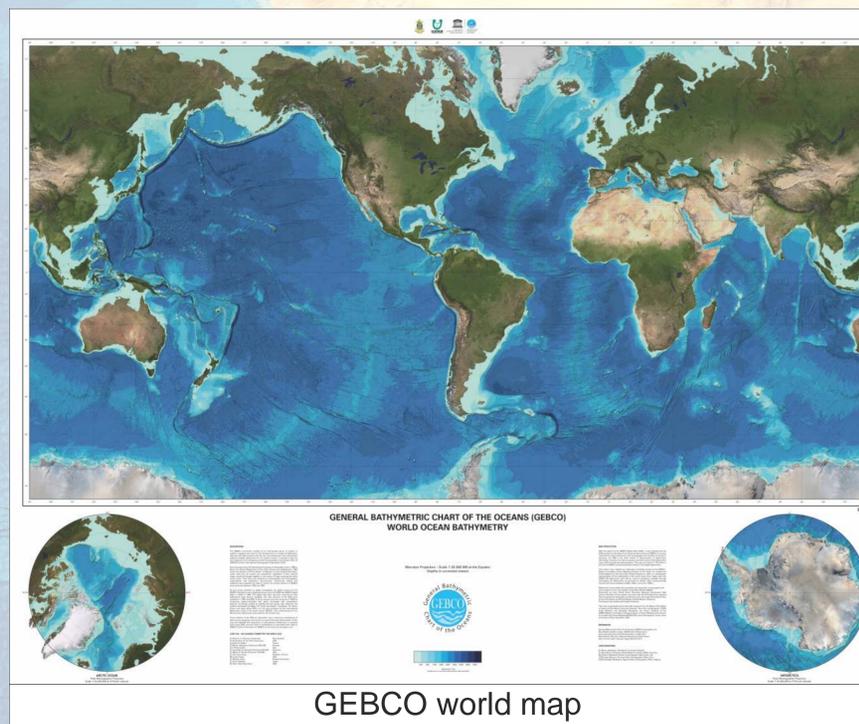
A shaded relief colour map image showing the bathymetry of the world's oceans:  
[www.gebco.net/data\\_and\\_products/gebco\\_world\\_map/](http://www.gebco.net/data_and_products/gebco_world_map/)

#### Web services

A Web Map Service based on the GEBCO grid:  
[www.gebco.net/data\\_and\\_products/gebco\\_web\\_services/web\\_map\\_service/](http://www.gebco.net/data_and_products/gebco_web_services/web_map_service/)

#### GEBCO Digital Atlas:

A collection of GEBCO's grids and bathymetric contour data sets on DVD with accompanying viewing and data access software:  
[www.gebco.net/data\\_and\\_products/gebco\\_digital\\_atlas/](http://www.gebco.net/data_and_products/gebco_digital_atlas/)



GEBCO world map