Global Bathymetric Data Sets - General Bathymetric Chart of the Oceans (GEBCO) www.gebco.net

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The GEBCO community consists of an international group of experts in seafloor mapping who develop and make available a range of data sets and products with the aim of providing the most authoritative publicly-available bathymetric data sets for the world’s oceans.

Find out more about our data sets and products: www.gebco.net/data_and_products/

Global Digital Terrain Model (DTM)

The GEBCO_2014 Grid is a global terrain model at 30 arc-second intervals and was released in December 2014.

It is largely based on a database of ship-track soundings with interpolation between soundings guided by satellite-derived gravity data. Where they improve on this model, data sets generated by other methods have been included.

Recognising the importance of regional mapping expertise to help improve its global grid, GEBCO is building collaborations with regional mapping efforts to help encourage the incorporation of their compilations into GEBCO.

The GEBCO_2014 grid includes contributions from many regional mapping projects and data contributors such as the International Bathymetric Charts of the Arctic Ocean (IBCAO) and Southern Ocean (IBCSO); the Baltic Sea Bathymetry Database and EMODnet 2013 for European waters.

The grid is accompanied by a Source Identifier (SID) Grid showing which cells are based on soundings or pre-gridded data sets and which are interpolated.

GEBCO's grids can be downloaded from the internet in netCDF (CF Compliant), Esri ASCII raster or data GeoTiff formats.

Find out more: www.gebco.net/data_and_products/gridded_bathymetry_data/

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 seafloor.

The data set contains over 3,900 features and is available to view, search and download via the internet in a number of formats including comma separated text, spreadsheet and shapefile.

Via its web pages, SCUFN provides information on undersea feature terms and definitions and details on how to propose names for newly-discovered seafloor features.

www.gebco.net/data_and_products/undersea_feature_names/

Other products

Web services

We make available a Web Map Service (WMS) providing imagery based on the GEBCO 30 arc-second grid. It also includes a layer showing the SID grid coverage - i.e. identifying those grid cells in the GEBCO_2014 grid constrained by measured data or pre-gridded data sets, or based on interpolation.

www.gebco.net/data_and_products/gebco_web_services/web_map_service/

IHO-IOC GEBCO Cook Book

A technical reference manual on how to build bathymetric grids. It includes information on: data gathering and cleaning; producing bathymetric grids plus information on some of the software packages available to do this work.

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 and including names for seafloor features from the GEBCO Gazetteer.

www.gebco.net/data_and_products/printable_maps/gebco_world_map/

GEBCO Digital Atlas

The GDA is 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/