



# IHO Data Center for Digital Bathymetry Report

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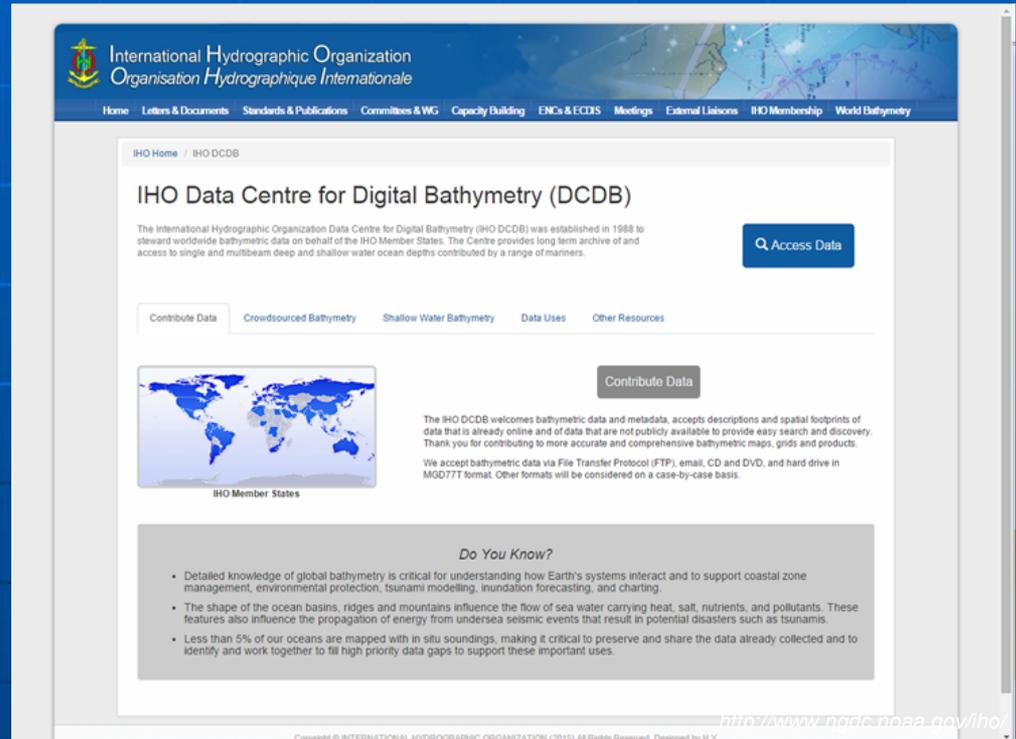
# Main Activities

- Infrastructure and Interface Enhancement Project
- Crowdsourced Bathymetry Pilot Project
- GEBCO Undersea Feature Names Gazetteer maintenance



# Infrastructure & Interface Enhancement Project

Objective: Allow automated upload, archive, display, description, discovery and delivery of bathymetric data



The screenshot displays the IHO DCDB website. At the top, the IHO logo and name are visible, along with a navigation menu including Home, Letters & Documents, Standards & Publications, Committees & WG, Capacity Building, ENCs & ECIS, Meetings, External Liaisons, IHO Membership, and World Bathymetry. The main content area features the title 'IHO Data Centre for Digital Bathymetry (DCDB)' and a brief description of the center's mission. A prominent 'Access Data' button is located on the right. Below this, there are tabs for 'Contribute Data', 'Crowdsourced Bathymetry', 'Shallow Water Bathymetry', 'Data Uses', and 'Other Resources'. A world map highlights IHO Member States, with a 'Contribute Data' button positioned to its right. The page also includes a 'Do You Know?' section with bullet points about the importance of global bathymetry data.

International Hydrographic Organization  
Organisation Hydrographique Internationale

Home Letters & Documents Standards & Publications Committees & WG Capacity Building ENCs & ECIS Meetings External Liaisons IHO Membership World Bathymetry

IHO Home / IHO DCDB

## IHO Data Centre for Digital Bathymetry (DCDB)

The International Hydrographic Organization Data Centre for Digital Bathymetry (IHO DCDB) was established in 1988 to steward worldwide bathymetric data on behalf of the IHO Member States. The Centre provides long term archive of and access to single and multibeam deep and shallow water ocean depths contributed by a range of mariners.

[Access Data](#)

[Contribute Data](#) [Crowdsourced Bathymetry](#) [Shallow Water Bathymetry](#) [Data Uses](#) [Other Resources](#)



IHO Member States

[Contribute Data](#)

The IHO DCDB welcomes bathymetric data and metadata, accepts descriptions and spatial footprints of data that is already online and of data that are not publicly available to provide easy search and discovery. Thank you for contributing to more accurate and comprehensive bathymetric maps, grids and products.

We accept bathymetric data via File Transfer Protocol (FTP), email, CD and DVD, and hard drive in MGD777 format. Other formats will be considered on a case-by-case basis.

### Do You Know?

- Detailed knowledge of global bathymetry is critical for understanding how Earth's systems interact and to support coastal zone management, environmental protection, tsunami modelling, inundation forecasting, and charting.
- The shape of the ocean basins, ridges and mountains influence the flow of sea water carrying heat, salt, nutrients, and pollutants. These features also influence the propagation of energy from undersea seismic events that result in potential disasters such as tsunamis.
- Less than 5% of our oceans are mapped with in situ soundings, making it critical to preserve and share the data already collected and to identify and work together to fill high priority data gaps to support these important uses.

<http://www.iho.int/iho/>

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# Infrastructure & Interface Enhancement

- Four year project
- Funded by NOAA's Office of Coast Survey
- Created prototype front-end interface with IHO look and feel
- IHO transferred DCDB landing page ownership
- Updated DCDB links and information on the IHO web pages
- Tested ingest of crowdsourced bathymetry data from IHO pilot project and AAECO



# Pilot Project: IHO

- IHO, Professional Yachting Association, IHO DCDB, Sea-ID
- Test data: Tracklines from the Association of Arctic Expedition Cruise Operators (AECO)



# IHO Pilot Superyacht Tracklines



# GEBCO Data Store Status

- Purpose: Serve as a one-stop-shop for current and potential GEBCO Grid source data
- Part of the IHO DCDB
- Make available publicly accessible bathymetric data
- Provide *information* about non-public data as well as data already accessible from other sites
- On hold pending development resources



# Next steps

- Enhance discovery and download functionalities
- Add crowdsourced bathymetry data streams and interactive map layer
- Leverage other development efforts to make progress on GEBCO Data Store



## Vision:

The floor of our  
oceans and seas revealed

## Mission:

Empower mariners to  
map the gaps

