











What is GEBCO?











The General Bathymetric Chart of the Oceans (GEBCO) (see www.gebco.net)

- Aims to provide the most authoritative, publicly-available bathymetric data sets for the world's oceans
- Operates under the joint auspices of the
 - International Hydrographic Organization (IHO), and
 - Intergovernmental Oceanographic Commission (IOC) of UNESCO
- First GEBCO paper chart series initiated in 1903
- Forum for Future Ocean Floor Mapping (June 2016): www.iho.int/mtg_docs/com_wg/GEBCO/FOFF/index.html



GEBCO Project organisational structure









- GEBCO is led by a Guiding Committee consisting of five IHO-appointed members; five IOC-appointed members; Sub-committee Chairs and the Director of the IHO-DCDB
- It has 4 sub-committees and a number of working groups:
 - Sub-Committee on Undersea Feature Names (SCUFN)
 - Technical Sub-Committee on Ocean Mapping (TSCOM)
 - Sub-Committee on Regional Undersea Mapping (SCRUM)
 - Sub-Committee on Communications, Outreach and Public Engagement (SCOPE)
 - IHO-IOC GEBCO Cook Book

www.gebco.net/about_us/committees_and_groups/











GEBCO products











Our bathymetric data sets and products:

- Global gridded bathymetric data set (30 arc-second interval)
- GEBCO Gazetteer of Undersea Feature Names
- GEBCO Digital Atlas
- Grid viewing software
- Printable maps
- Web Map Service (WMS)
- IHO-IOC GEBCO Cook Book

www.gebco.net/data_and_products/



GEBCO products: Source Identifier Grid



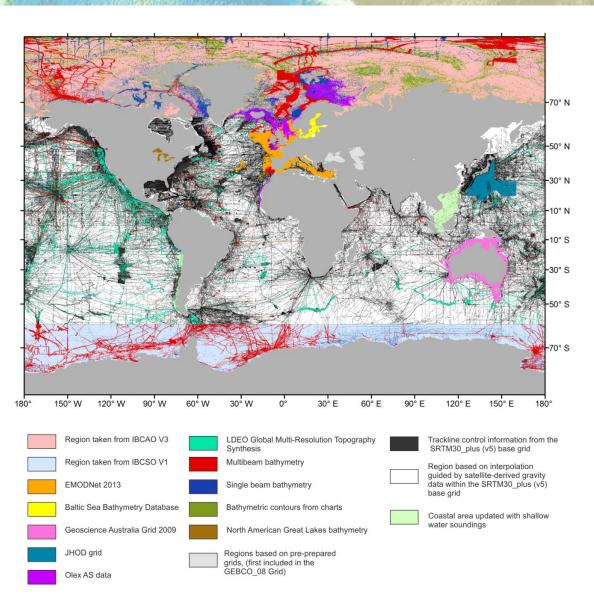






The GEBCO Source Identifier (SID) Grid:

Shows the source of depth value in each grid cell, *i.e.* if it is based on track-line data; pre-existing grids or if it is based on interpolation





Filling the data gaps











- Raising awareness of the 'data gaps' to encourage data collection in these regions
- Encouraging organizations to make their bathymetric data sets easily discoverable and accessible, either directly or by contributing data to international publically-available databases such as the IHO Data Center for Digital Bathymetry (IHO-DCDB)
- Crowdsourced bathymetry (CSB) initiatives such as the IHO CSB Working Group
- GEBCO initiative to request shallow water bathymetry data extracted from Electronic Navigation Charts from the Hydrographic Community



Seabed 2030



Seabed 2030 is a global initiative to cooperatively work towards creating a high resolution complete map of the world's ocean floor by 2030.











- -The **Nippon Foundation** is a private Japanese-based, non-profit <u>grant-making organization</u> with a mission based around philanthropic activities to pursue global <u>maritime development</u> and assistance for <u>humanitarian work</u>.
- -The **General Bathymetric Chart of the Oceans (GEBCO)** organization operates under the joint auspices of the <u>International Hydrographic Organization</u> (IHO) and the <u>Intergovernmental Oceanographic Commission</u> (IOC) of UNESCO



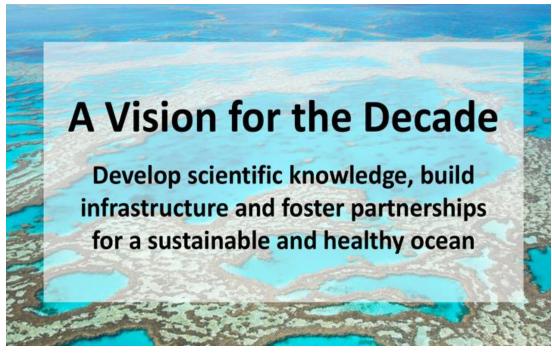


The UN Decade of Ocean Science for Sustainable Development (2021-2030)



CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT













ntergovernmental Oceanographic Commission





Seabed 2030 Regional Data Assembly







Seabed 2030: Regional Centers

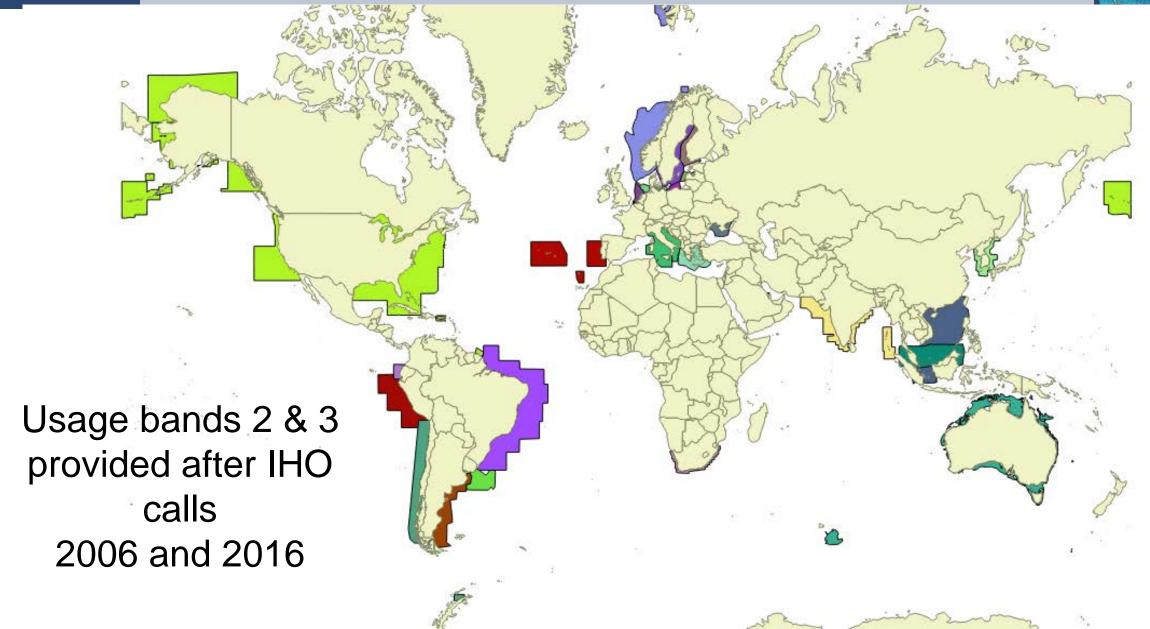






ENC Data Contributions to GEBCO







Coordinating with IBCs



- Seabed 2030 Atlantic/Indian Oceans RDACC
 - IBC of the Caribbean Sea & Gulf of Mexico (IBCCA)
 - IBC of the Central Eastern Atlantic (IBCEA)
 - IBC of the Mediterranean (IBCM)
 - IBC of the Western Indian Ocean (IBCWIO)
- Seabed 2030 South & West Pacific RDACC
 - IBC of the South Eastern Pacific (IBCSEP)
- Seabed 2030 Arctic/North Pacific RDACC
 - IBC of the Arctic Ocean (IBCAO)
 - IBC of the Caribbean Sea & Gulf of Mexico (IBCCA)
- Seabed 2030 Southern Ocean RDACC
 - IBC of the Southern Ocean (IBCSO)





Seabed 2030 Status & Next Steps



- ✓ Data centers established 2018
- ✓ Initial regional data products generated and passed to Global Center
- New GEBCO grid to be released at spring of 2019
- Establishing connections with regional stakeholders





How to participate

- Contribute information about existing data coverage
- Contribute data
 - Gridded data products
 - Points from ENCs
- Share information about future mapping plans
- Participate in 2019 Regional Mapping Meetings & GEBCO Meetings

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Capacity-building initiative:

The Postgraduate Certificate in Ocean Bathymetry



Designed to train a new generation of scientists and hydrographers in ocean bathymetry



is funded by:

ジ説面 The Nippon Foundation of Japan

www.nippon-foundation.or.jp/en/

and taught at:

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