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Resources for Journalists







The Nippon Foundation-GEBCO Seabed 2030 Project

100% of the ocean floor mapped by 2030

Download GEBCO's global grid

Download polar grids

Contribute data

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Arctic and North Pacific

Mar.

Atlantic and Indian Oceans

Regional Data and Assembly Centers

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More Information

Help

Layers
IHO DCDB/NOAA NCEI (?)
▶ EMODnet
Australia
▼ Canada
NRCan Multibeam Surveys (?) NRCan Multibeam Shaded Relief (?) Canadian Hydrographic Service NONNA-10 (?) Canadian Hydrographic Service NONNA-100 (?) Canadian Hydrographic Service 500m Bathymetry Compilation (?)
France
▶ Japan
 Netherlands
UNCLOS Coverage (?)
■ Bathymetric Coverage Maps
Global Multi-Resolution Topography Synthesis (GMRT GEBCO_2020 Type Identifier (?)

International Hydrographic Organization Data Centre for Digital Bathymetry Viewer









Atlantic and Indian Oceans RDAC

GEBCO 2020 & known public data (IHO DCDB)



Atlantic and Indian Oceans RDAC

GEBCO 2020 & known public data (IHO DCDB) and known non-public data



National Ocean Mapping, Exploring, and Characterization of the U.S. EEZ (<u>NOMEC</u>)

- A national strategy for mapping, exploring, and characterizing the U.S. EEZ
- Presidential memo (Nov. 2019) now under consideration as Ocean Exploration Bill
- 11 agencies looking at the next 20 years (2020-2040)
- Council
 - Co-chairs: RDML Shep Smith & Dr. Alan Leonardi (NOAA) & Dr. John Haines (USGS)

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NOMEC Continued

Five Goals:

1. Coordinate Interagency Efforts and Resources to Map, Explore, and Characterize the U.S. EEZ

- 2. Map the U.S. EEZ
- 3. Explore and Characterize Priority Areas of the U.S. EEZ

4. Develop and Mature New and Emerging Science & Technologies to Map, Explore, and Characterize

5. Build Partnerships Beyond Federal Agencies to Map, Explore, and Characterize

Seabed 2030 & Crowdsourced Bathymetry





IHO CL 21/2020 & IRCC CL 01/2020

•All Coastal States are now requested to indicate their position on the provision of CSB data from ships within waters subject to their national jurisdiction into the public domain

•To date, 30 coastal states (green) have replied positively

•The geographic filter will be updated in 2021 to reflect updated coastal state positions.



iho.int/uploads/user/circular_letters/eng_2020/CL21_2020_EN_v1.pdf iho.int/uploads/user/Inter-Regional%20Coordination/IRCC/IRCC_Letters/IRCC_Letter_2020_01_CSB_Activities.pdf

Crowd-Sourced Data



MACHC Strategy/Goals



MACHC-IOCARIBE Seabed 2030 Work Plan for 2021



Goal 1: Contribute Existing Non-Public Bathymetric Data to the IHO DCDB and GEBCO Grid

Objective 1.1. Identify existing non-public bathymetric data and create/share polygons delineating the extent of data coverage for integration into the Seabed 2030 - MACHC Web App

#	Action Item	Responsible Party	Due Date
001	Assemble information (polygons) about existing non-public bathymetric data falling under its remit not yet identified on the MACHC Web App to identify gaps.	Coastal States	As soon as possible
002	Broadly communicate the steps to submit polygons showing data coverage of existing data to both the RDACC and the IHO DCDB.	Seabed2030 Coordinator	Ongoing

Objective 1.2. Share existing bathymetric data in the MACHC region for inclusion in the GEBCO Grid and longterm preservation and public accessibility via the IHO DCDB.

#	Action Item	Responsible Party	Due Date
003	Look at existing regulatory requirements, legislation, bilateral, contractual or other arrangements for surveying within national waters of jurisdiction to reassess what bathymetric data can be made publicly available and at what resolution is acceptable to the government and to the data owner.	Coastal States	May
004	Broadly communicate the steps to submit data to the IHO DCDB and the RDACC.	Seabed2030 Coordinator	Ongoing
005	Contribute multibeam, single-beam and ENC data to the IHO DCDB, wherever possible, for long-term archive and data access.	Coastal States	As soon as possíble
006	Contribute national bathymetric data products to the RDACC at the appropriate resolution approved by the national authorities for integration into the GEBCO grid.	Coastal States	As soon as possible

Goal 2: Increase Data Coverage

Objective 2.1. Design, implement, and resource coordinated mapping campaigns based on identified data gaps.

#	Action Item	Responsible Party	Due Date
008	Assemble information and polygons about upcoming surveys and data acquisition opportunities in national waters of jurisdiction to integrate into the WebApp to define data gaps and plan coordinated mapping campaigns.	Coastal States and Seabed2030 Coordinator	As soon as possible
009	Identify gap areas in the MACHC region without any kind of bathymetric data (distances greater than 1,000 m) providing the polygons to the respective Coastal States.	Seabed2030 Coordinator	March

Objective 2.2. Encourage the acquisition of mapping data by academic and industry survey vessels during transits through the region to fill gaps in data coverage.

#	Action Item	Responsible Party	Due Date
010	Explore with national authorities expanded permissions for opportunistic data acquisition via research and survey vessels during transits, consistent with national policy.	Coastal States	Ongoing

Objective 2.3. Encourage the collection and contribution of crowdsourced bathymetry (CSB) data among volunteer commercial and non-commercial vessels.

#	Action Item	Responsible Party	Due Date
011	Respond to IRCC CL 1/2020 or IHO CL 21/2020 to allow for the provision of CSB data from ships within waters subject to their national jurisdiction into the public domain, according to national policy, or update it.	MACHC Members and Associate Members	As soon as possible
012	Consider carrying CSB field trials with designated "trusted nodes" (data liaisons) and data collectors (mariners) in the region to provide data to the IHO DCDB.	Interested Coastal States	As soon as possible

Goal 3: Build Capacity for mapping contributions

Objective 3.1. Expand and enhance the suite of IHO DCDB and Seabed 2030 RDACC tools available to support and assist data contributors through the packaging and provision of data at any resolution or access level.

#	Action Item	Responsible Party	Due Date
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Menu of Possible USCHC Goals

Add non-public data to IHO DCDB and GEBCO Grids

Identify known existing non-public data and develop coverage polygons

Identify barriers to release on known non-public data

Develop plan to make presently non-public data available wherever there are not existing barriers, and endeavor to remove barriers where they do exist

Increase Data Coverage

Identify barriers, including environmental compliance requirements, to full-time operation of MBES by hydrographic, other agency, and academic vessels during transits; commit to/approve continuous operation of these systems in US and Canadian waters whenever practicable

Develop strategy to obtain bathymetry, backscatter, and related data sets from offshore wind siting surveys in US and Canada waters

Employ the SB2030 Transit Planner for multibeam data collection on coastal and ocean transits of multibeam-equipped vessels

Facilitate, accept, archive and share CSB data in USCHC waters

Undertake or support CSB trusted system projects with full availability of resultant CSB sounding data

Manage for Success

Commit to USCHC "sponsorship" of USCHC waters outside of areas of national jurisdiction

Continued HO participation in Atlantic Seabed Mapping International Working Group (ASMIWG)

Identification of scientific mapping opportunities in these international waters

For CHS—determine if interest in establishing Canada gap-analysis still exists, and if so, what are operating assumptions and what approach is envisioned.

For CHS—identify a CHS POC for SB2030 activity to work with USCHC SB2030 liaison (A. Armstrong)

Institute a goal-tracking process and report on SB2030 progress at annual USCHC meetings