THE NIPPON FOUNDATION-GEBCO

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What is Seabed 2030?

The Nippon Foundation - GEBCO Seabed 2030 Project is a collaborative project to inspire the complete mapping of the world's ocean by 2030, and to compile all bathymetric data into the freely-available GEBCO Ocean Map.

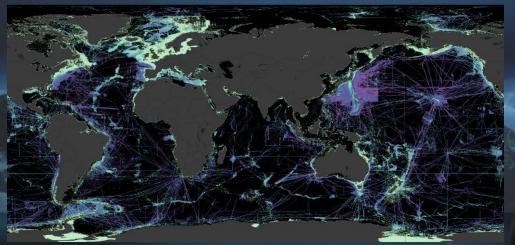
Seabed 2030 aspires to empower the world to make policy decisions, use the ocean sustainably, and undertake scientific research that is informed by a detailed understanding of the global ocean floor.





Why is Seabed 2030 Important?

- Bathymetry data is an essential ocean observation
- Seabed mapping data has broad use and value
- Ocean processes extend beyond territorial waters
- Only ~23% of the ocean has been mapped with direct observation
- Mapping the entire ocean is a massive task that can only be achieved through cooperation and coordination





GEBCO Products

- Global gridded bathymetric data
 - > 2014: 30 arc-second grid
 - 2019 2022: 15 arc-second grid
- Gazetteer of Undersea
 Feature Names
- Grid viewing software
- Printable maps
- Web Map Service (WMS)
- IHO-IOC GEBCO Cook Book



Download the GEBCO grid from: gebco.net or seabed2030.org

How to Access the GEBCO Grid



Home » Data & Products » Gridded Bathymetry Data

Global ocean & land terrain models

GEBCO's gridded bathymetric data set, the GEBCO_2020 grid, is a global terrain model for ocean and land at 15 arc-second intervals. It is accompanied by a Type Identifier (TID) Grid that gives information on the types of source data that the GEBCO_2020 Grid is based.

- Download global coverage grids
- · Download data for user-defined areas

More information about the grid, its terms of use and attribution.

Download global coverage grids

The GEBCO_2020 Grid and TID Grid can be download as global files in netCDF format or a set of 8 tiles (each with an area of 90° x 90°), giving global coverage, in Esri ASCII raster and data GeoTiff formats. The data files are included in a zip file along with the data set documentation.

GEBCO_2020 Grid	netCDF (4 Gbytes, 7.5 Gbytes uncompressed)	Data GeoTiff (4 Gbytes, 8 Gbytes uncompressed)	Esri ASCII rester (5 Gbytes, 20 Gbytes uncompressed)
GEBCO_2020 TID Grid	netCDF 90 Mbytes, 4 Gbytes uncompressed)	Data GeoTiff (96 Mbytes, 7 Gbytes uncompressed)	Esri ASCII raster (108 Mbytes, 9.5 Gbytes uncompressed)

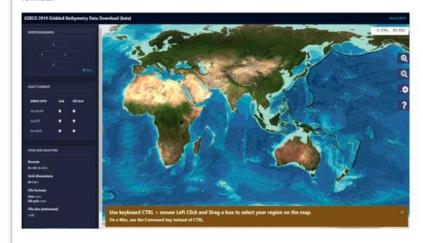
Jump to

- > Seabed 2030
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- > Printable maps
- > Historical GEBCO data sets
- > Imagery
- > Undersea feature names
- > Historical GEBCO charts
- > IHO-IOC GEBCO Cook Book
- > History of GEBCO book

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Download data for user-defined areas

Use our <u>application</u> to select and download data in netCDF, Esri ASCII raster and data GeoTiff formats.

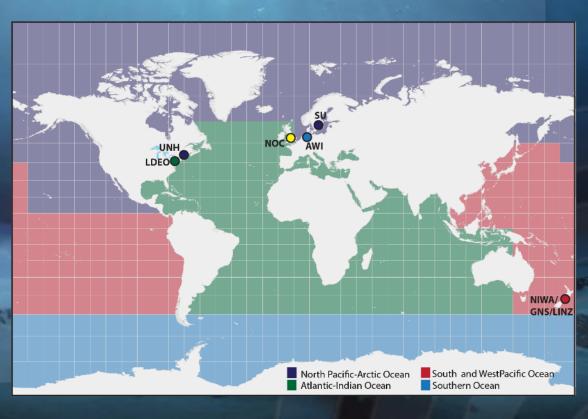


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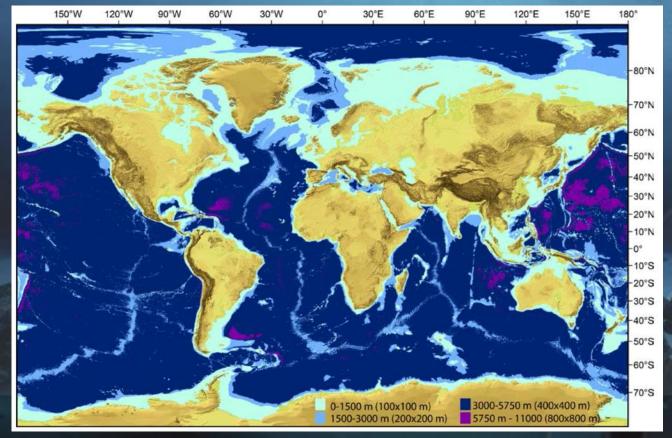
Seabed 2030: Regional Approach

- Regional Centers (RDACCs)
 - Engage with stakeholders
 - Build upon existing efforts
 - Assemble regional products
 - Identify gaps
- Global Center (GDACC)
 - Assemble global products
 - Disseminate global products





What does 100% mapped mean?

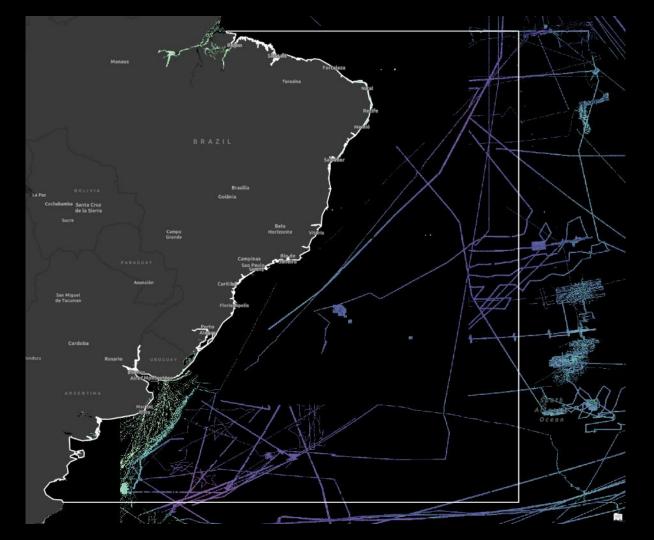


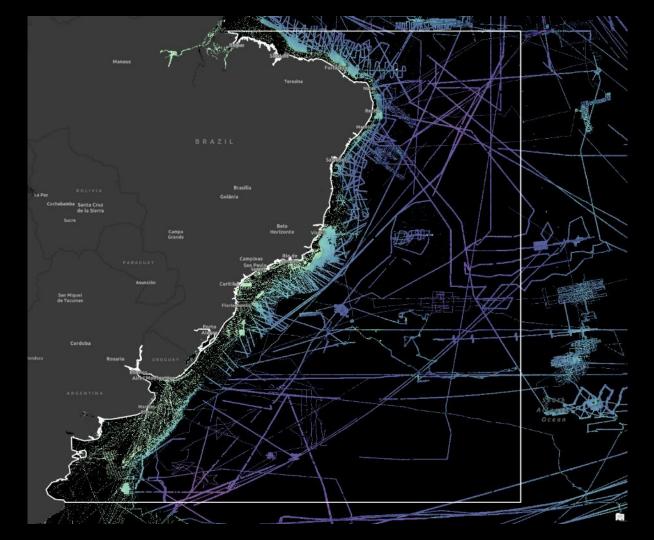














Overview of Data in the SWAtHC region

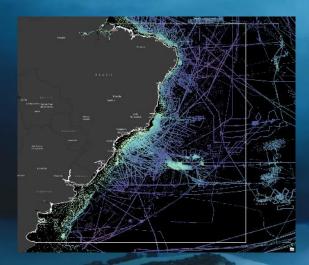
- Multiple sectors
 - Government
 - Academia
 - Industry
- Multiple data types
 - ENC
 - Multibeam
 - Singlebeam
 - Seismic
- Curated data from 9 countries



THANK YOU TO ALL CONTRIBUTORS!

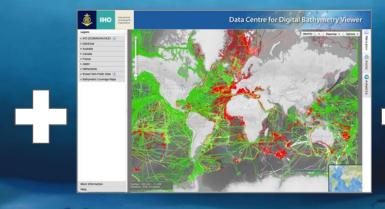


How much of the SWAtHC region has been mapped?



GEBCO 2022 Data Coverage

GEBCO 2020: 10.4% mapped GEBCO 2021: 21.9% mapped GEBCO 2022: 22.6% mapped

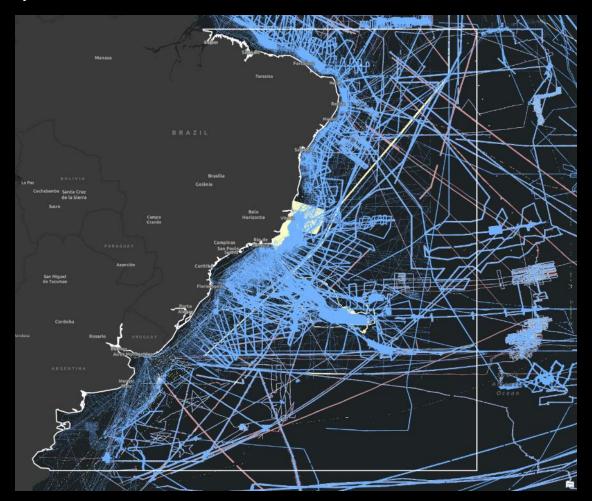


Known existing data not yet shared and/or not yet integrated

Unknown not yet shared

existing data

GEBCO 2022 plus newly contributed data



Ongoing Need for Data Contributions

- ENC data
- Multibeam data
- Single beam data
- CSB data
- Gridded products
- Polygons of data coverage
- Metadata

Fishin Tourism Privat Survey Research

atlantic-indian@seabed2030.org

How to Contribute Data

https://www.gebco.net/about_us/contributing_data/

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How to contribute data

Please use the form below to make contributions of multibeam and/ or single-beam survey data, individual soundings or existing grids to help update our gridded data sets and products. If you have any problems in completing the form, then please email this information to the Global Center (gdacc@seabed2030.org.). Watch a short video on how to contribute data.

GEBCO releases a new global grid every year, generally in late June. Find out more about the grid generation process.

We value all data sets contributed to help us map the seafloor and will make every effort to include them in the next grid release. However, please note that any new contributions received after January may not be included in this year's grid but will be considered for future releases.

Jump to

- > Our data contributors
- Join the Crowdsourced Bathym initative

Share this









GEBCO Data Contribution Form

GEBCO's aim is to provide the most authoritative, publicly-available bathymetry of the world's oceans. It operates under the joint auspices of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC) (of UNESCO). GEBCO is continually working to improve its data products and gratefully acknowledges all data contributions to help map the gaps.

Seabed 2030 is a collaborative project between The Nippon Foundation and GEBCO to inspire the complete mapping of the world's ocean by 2030 and to compile all bathymetric data into the freely-available GEBCO Ocean Map.

PRIVACY NOTICE:

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Your email contact will only be used by the GEBCO and the Seabed 2030 Team to contact you about the data sets of which you have made us aware. We will take all reasonable precautions to protect your personal data from loss, misuse, or alteration. We will not forward or sell on your email contact to 3rd parties.

Accelerating Toward 2030:

- Technical Innovation
 - Data acquisition
 - Data synthesis & integration
- Collaboration
 - Leverage efforts to work toward common goals
 - Share knowledge, data, approaches, workflows, and tools
 - Prioritization for mapping campaigns





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