



GEBCO

GEBCO and the Quest to Map the Seabed

GEBCO aims to provide the most authoritative, publicly available bathymetry data sets for the world's oceans.

Aileen Bohan

GEBCO's Sub-committee for Regional Undersea Mapping (SCRUM)

20th of May, 2025



IHO

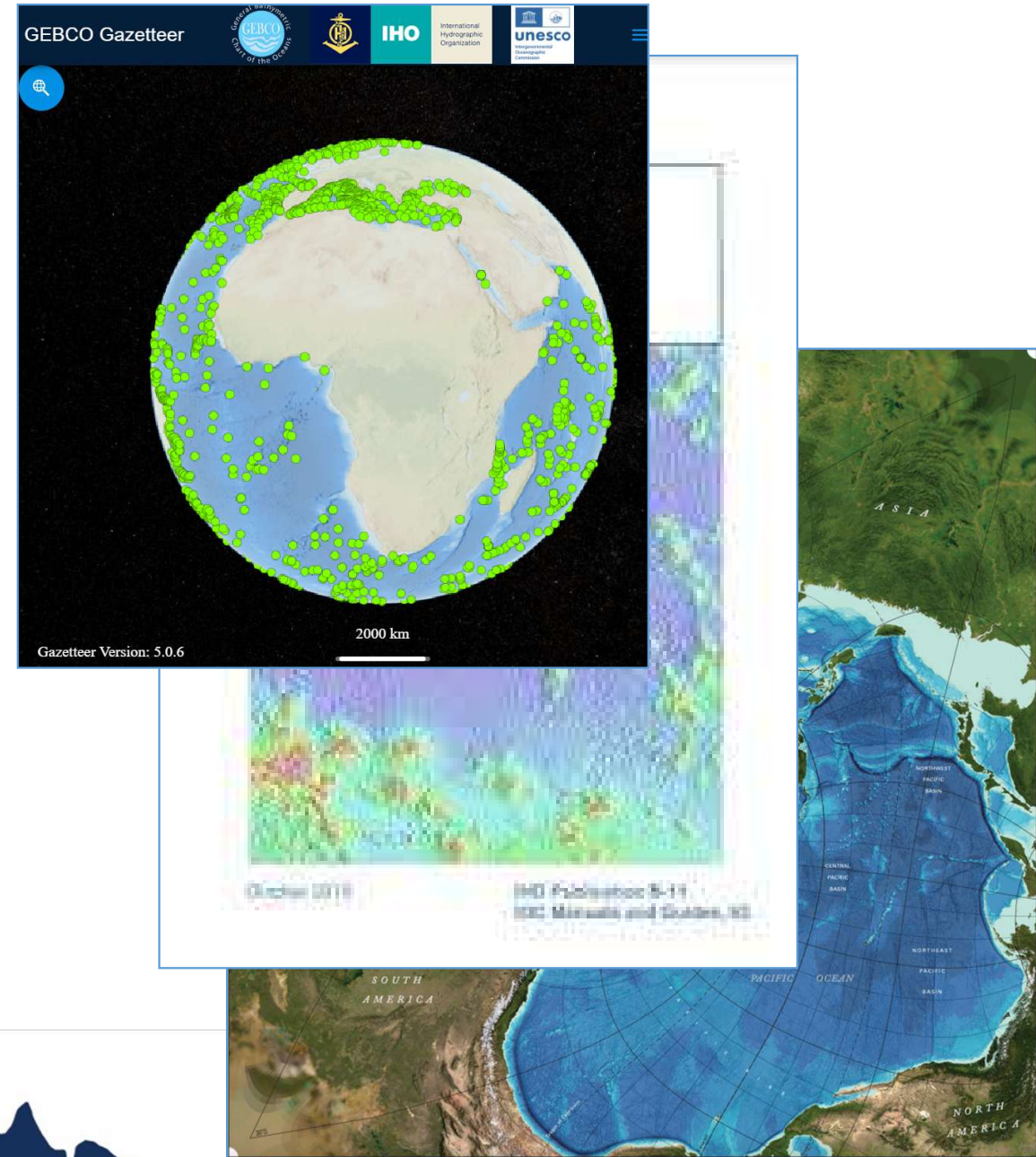
International
Hydrographic
Organization



GEBCO Overview

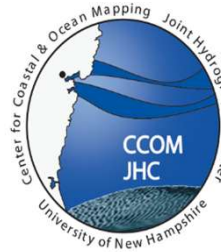
- **General Bathymetric Chart of the Ocean**
- Aims to provide the most authoritative publicly-available bathymetry of the world's oceans.
- Operates under the joint auspices of the **International Hydrographic Organization (IHO)** and the **Intergovernmental Oceanographic Commission (IOC)** of UNESCO

www.gebco.net

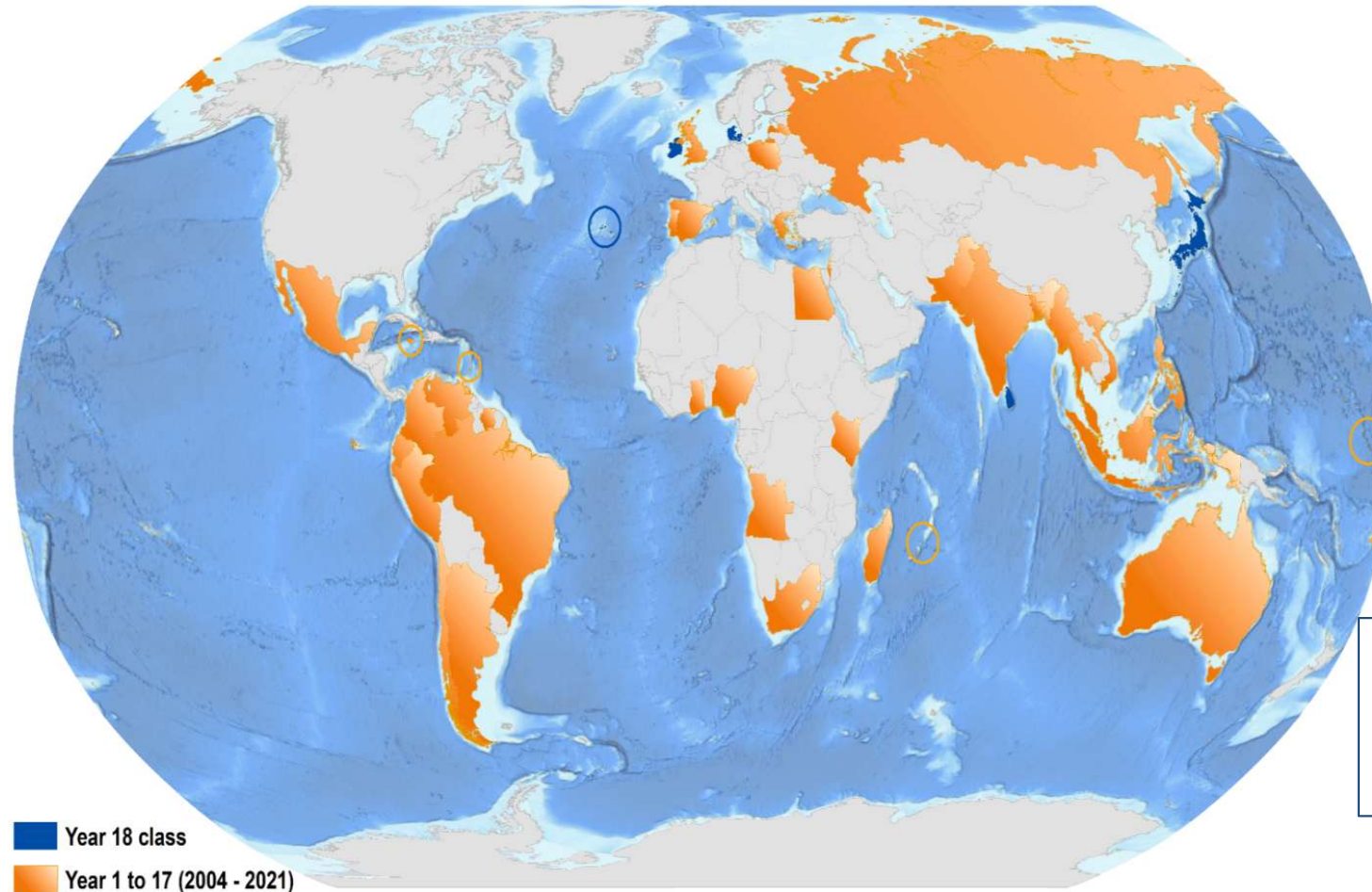


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Capacity-building Initiative: Postgraduate Certificate in Ocean Bathymetry



Over 120 scholars from 45 coastal states over last 20 years!



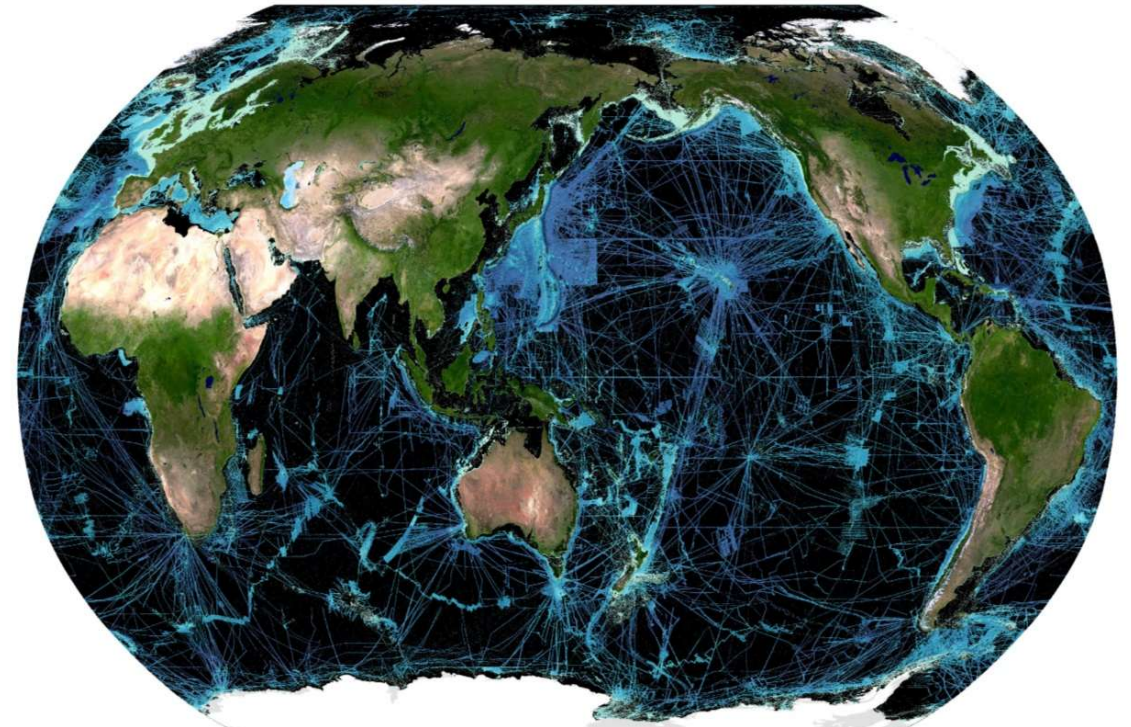
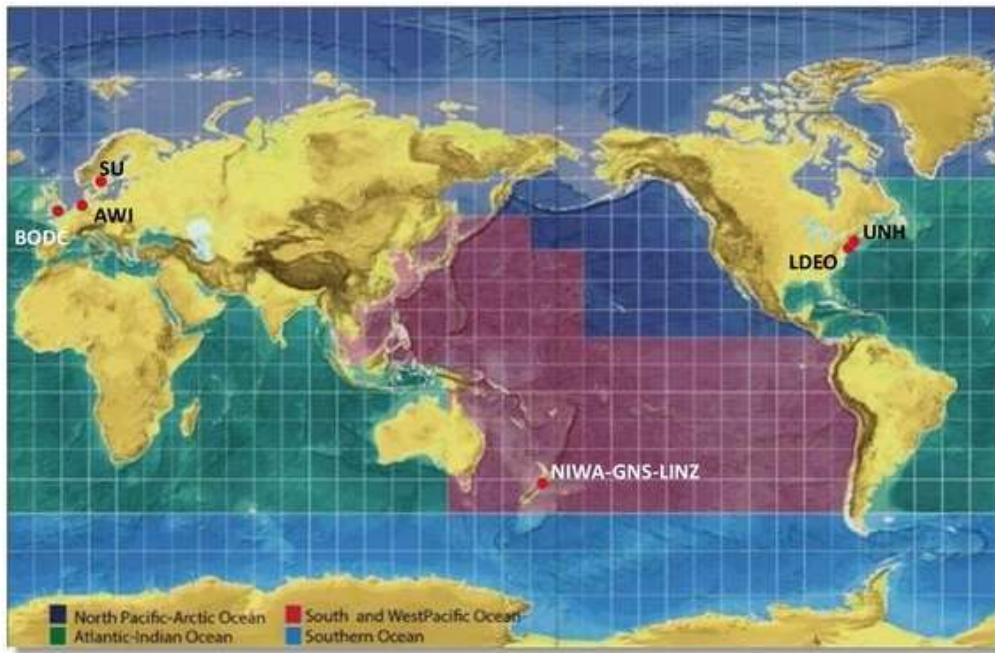
www.gebco.net/training



The Nippon Foundation GEBCO Project: Seabed2030



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.

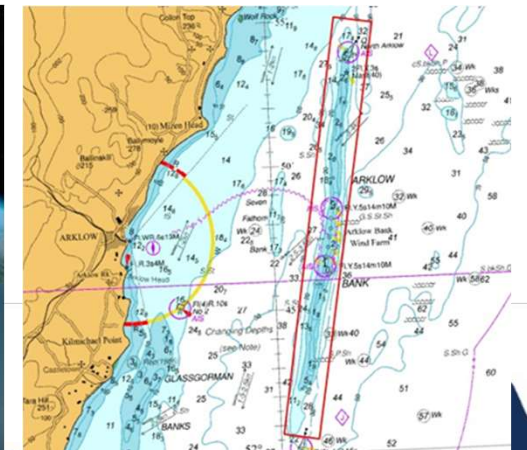
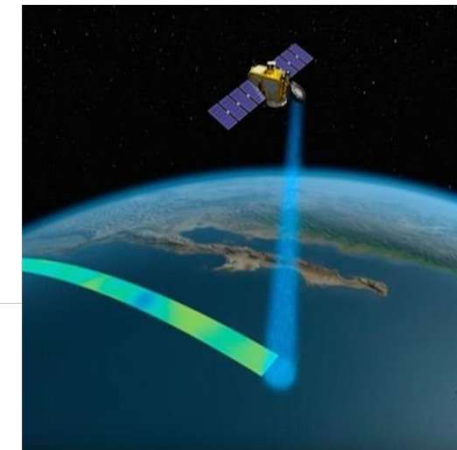


Why are Bathymetry Data Important?

- Nautical charts
- Oil and gas exploration
- Safety and storm surge/tsunami models
- Ecosystem identification and management
- Emergency response
- Satellite verification models
- Extended Continental Shelf
- Ocean Models
- Coastal/Marine Spatial Planning
- Coastal Hazard Assessment
- Ocean Exploration
- Coastal Change Analysis
- Sea Level Rise Mitigation
- New Energy Siting
- Marine heritage



SDG14 will not be achievable without a comprehensive map of the world ocean floor

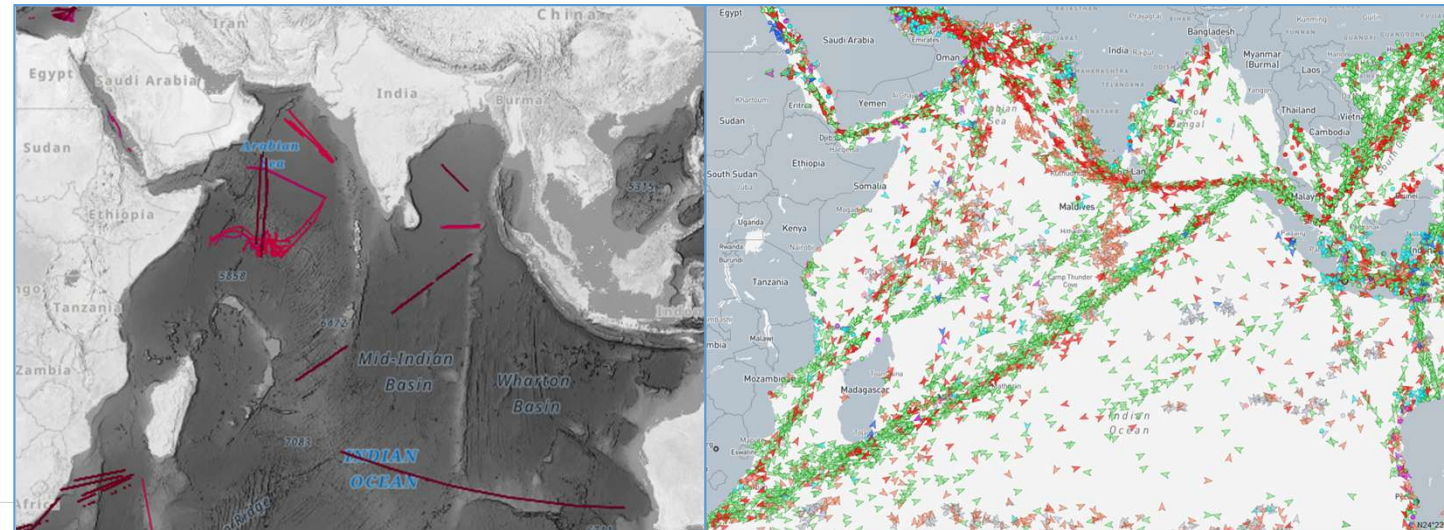
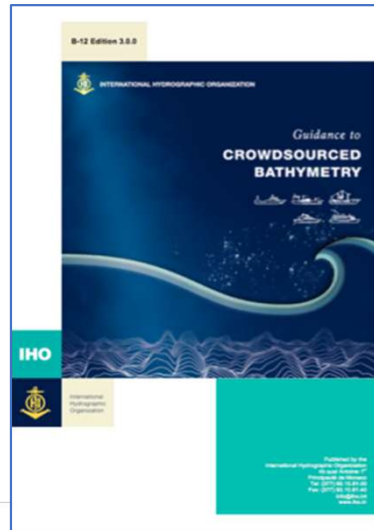


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The IHO Crowdsourced Bathymetry Initiative: A benefit for all states

Crowdsourced bathymetry (CSB) is the collection and sharing of depth measurements from vessels, using standard navigation instruments, while engaged in routine maritime operations

- To date, 37 coastal states have replied positively to IHO CL 21/2020 & IRCC CL 1/2020



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Thank you for this opportunity!

- Contribute data/information about existing data coverage
- Raise awareness of the training programme
- Encourage your chief hydrographers to respond to the IHO circular letter
- Engage with Data Centers
- Support and promote GEBCO activities and products
- **Join us as CSB/Seabed2030**
- **Coordinator for IOC Indio**

[*seabed2030.org*](http://seabed2030.org)

[*Gebco.net*](http://Gebco.net)

[*www.ncei.noaa.gov/iho-data-centre-digital-bathymetry*](http://www.ncei.noaa.gov/iho-data-centre-digital-bathymetry)

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