EMODnet
European Marine Observation and Data Network
Your gateway to marine data in Europe

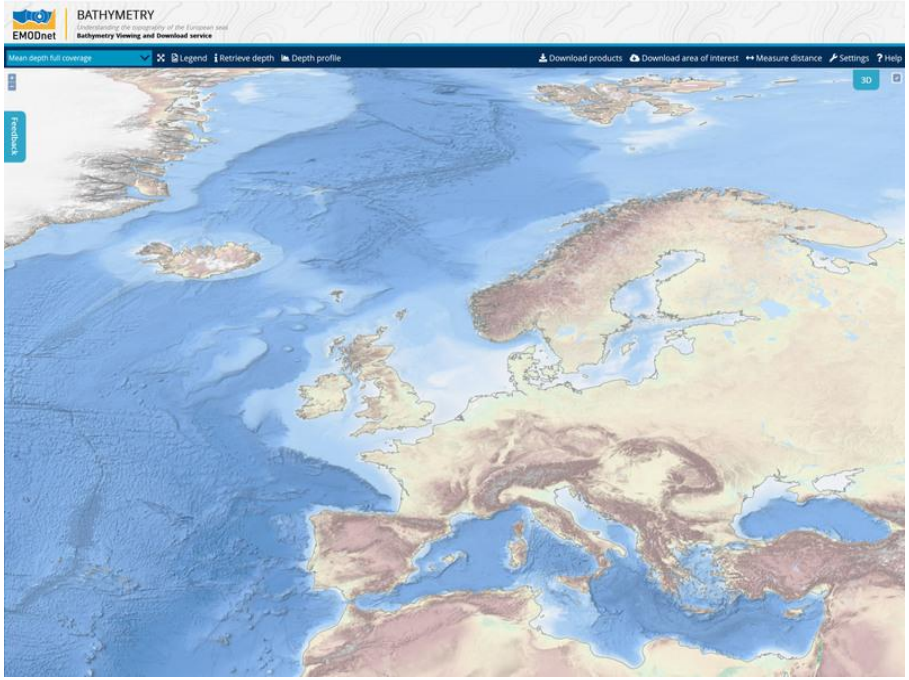
SHOM

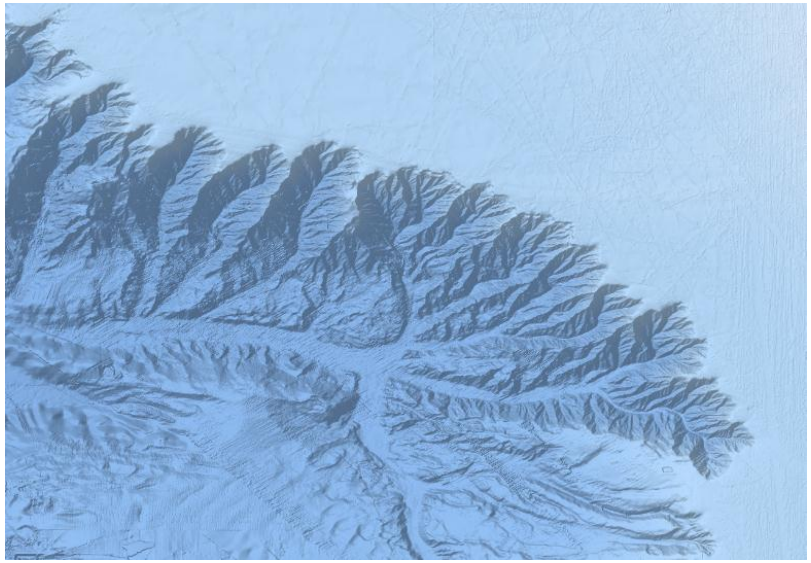
EMODnet Bathymetry : TSCOM/SCRUM update

Thierry Schmitt (Shom)
On behalf of the EMODnet High Resolution Seabed Mapping Consortium

Map the gaps - 2018.11.14

New EMODnet Bathymetry DTM 09/2018

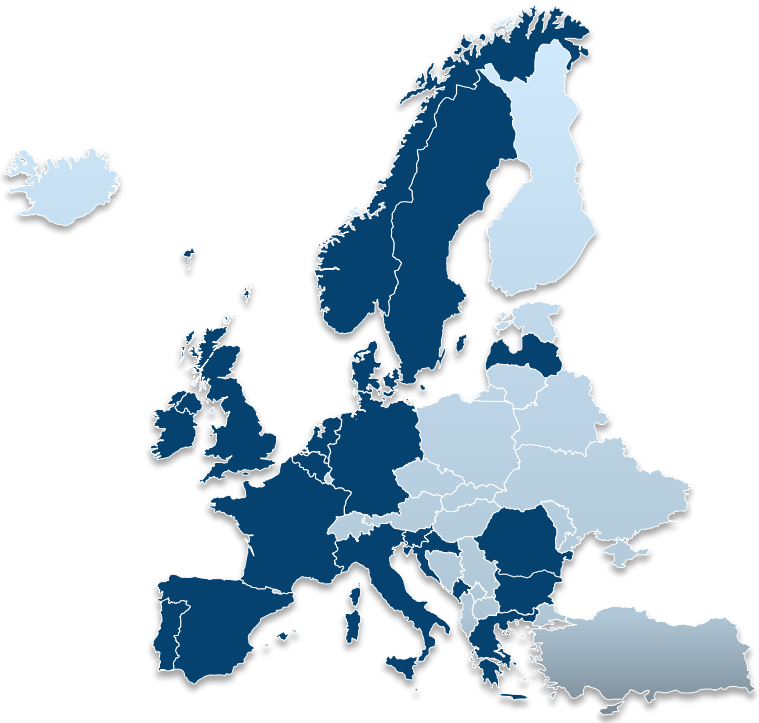




- Resolution increased from 1/8 * 1/8 arc minutes to 1/16 * 1/16 arc minutes (circa 115 * 115 meters);
- The EMODnet DTM now contains 113892 x 108132 = circa 12.3 billion data points;
- Expanded coverage including all European seas as well as the European part of the Arctic Ocean and Barents Sea;
- The inclusion of Satellite Derived Bathymetry data products, in particular for coastal stretches of Spain and Greece.
- http://doi.org/10.12770/18ff0d48-b203-4a65-94a9-5fd8b0ec35f6

EMODnet Bathymetry: Consortium

- 41 collaborating European organizations
  - **Hydrographic Offices**



  - **Research Institutes**

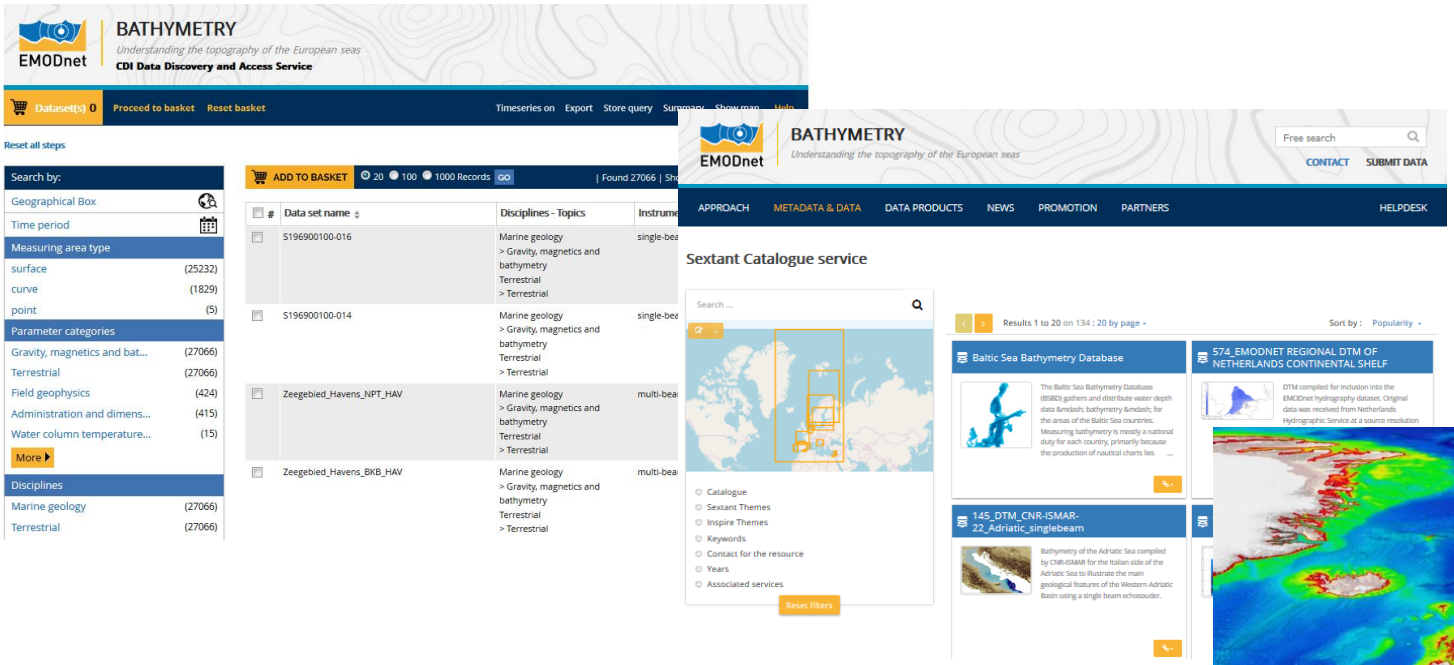
  - **Small and medium-sized enterprises**

Main Spirit

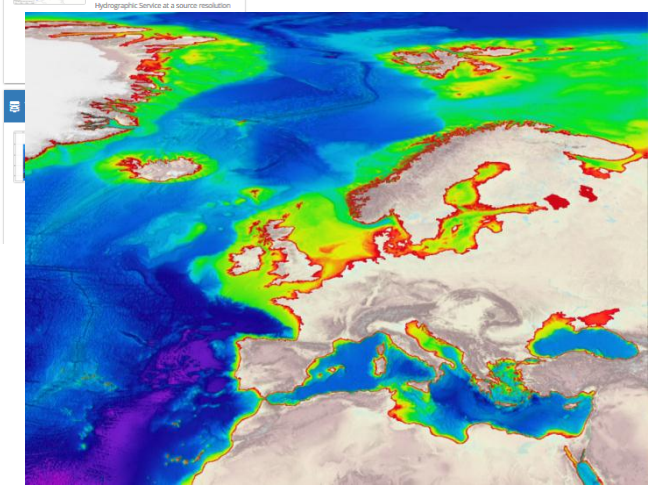
- Unified method and tools for data and metadata production
- Distributed role, from the local data provider to the basin coordinator and from the basin coordinator to the integration to the portal
- Distributed infrastructure
- Data diffusion is managed at the data provider level, respecting his own data policy.

Data inventory and Product

- **2 Catalogues** for Survey Data sets and Composite DTM
  - ➢ **~ 27 000** INSPIRE compliant metadata using the SeaDataNet common vocabulary

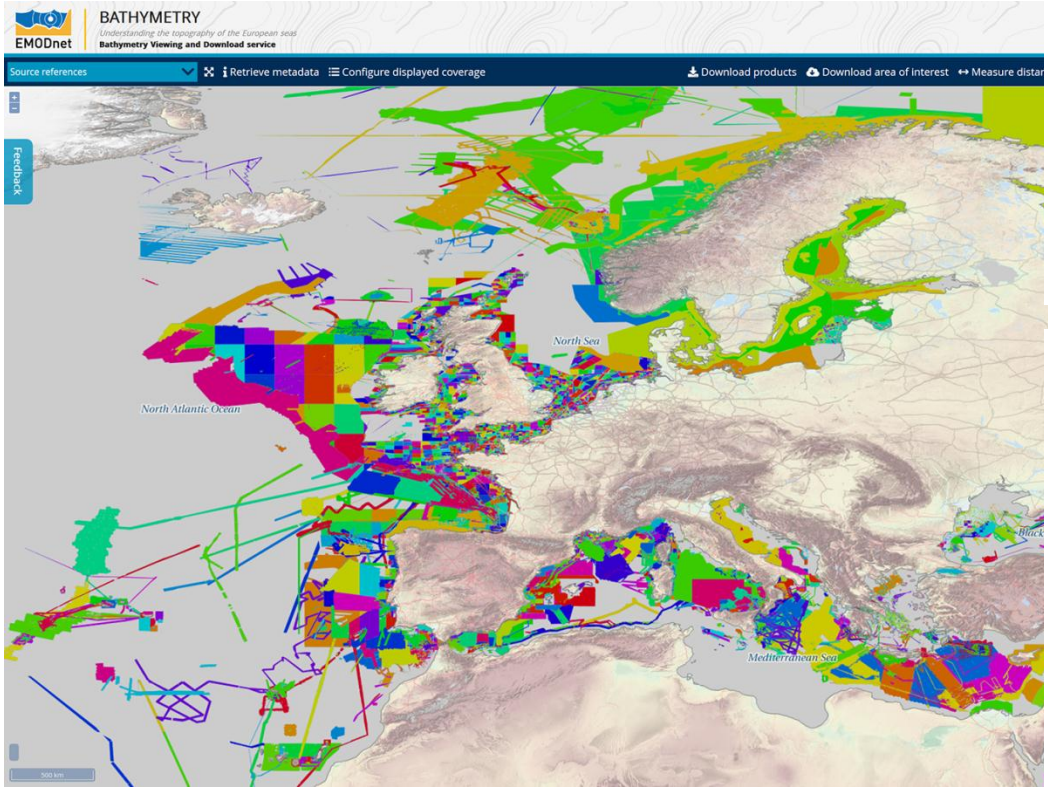


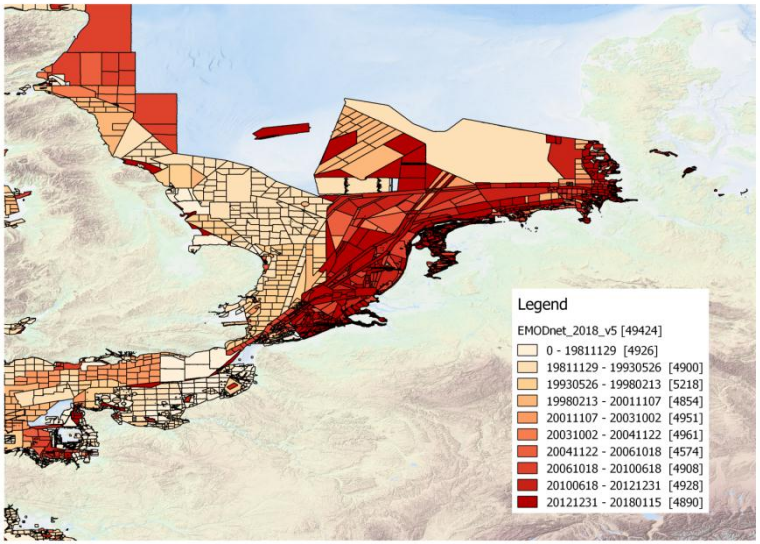
- A **Digital Terrain Model** for European seas available in various formats (ASCII, NetCDF, XYZ, RGB GeoTiff, ESRI ASCII, QPS SD) and services (WMS, WFS, WMTS, WCS)

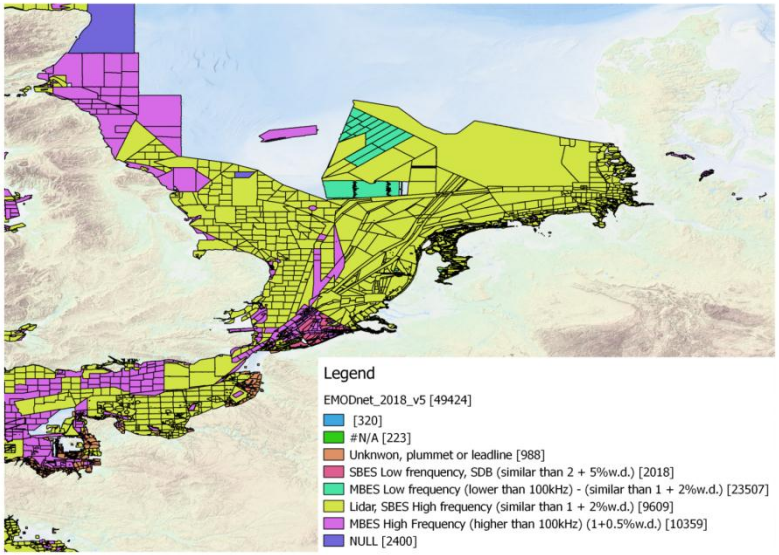


Bathymetry Digital Terrain Model: Quality assessment

- Source reference map
- Direct relation to each survey and their qualitative description (Vertical, Horizontal, Age, Purpose)



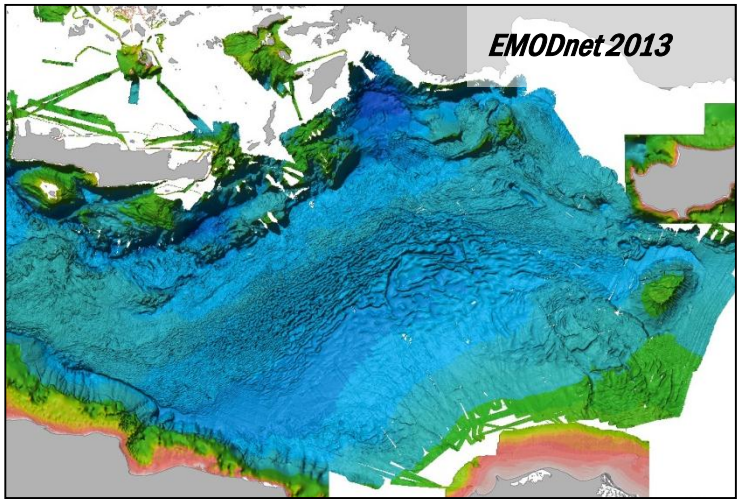


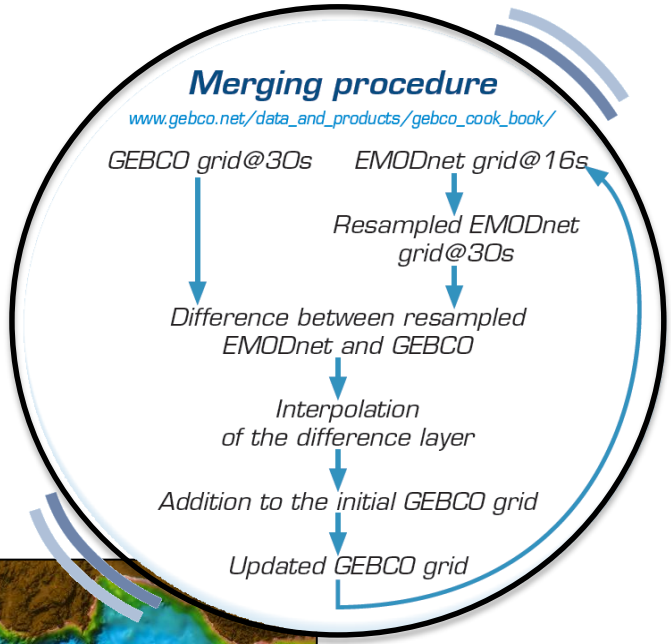


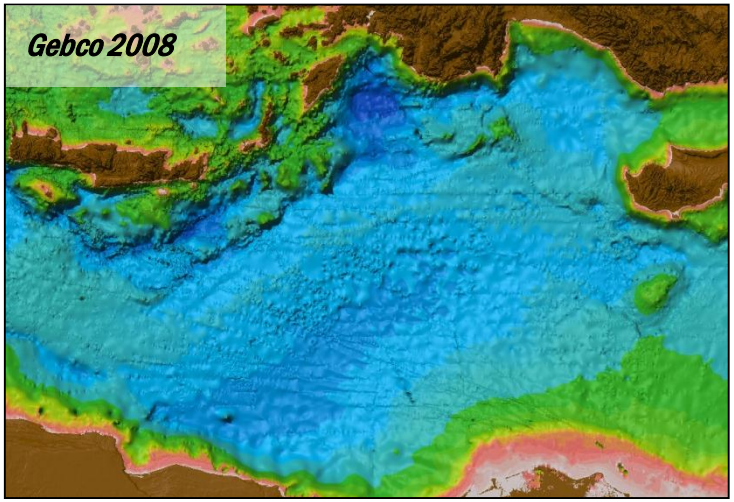
EMODnet | BATHYMETRY

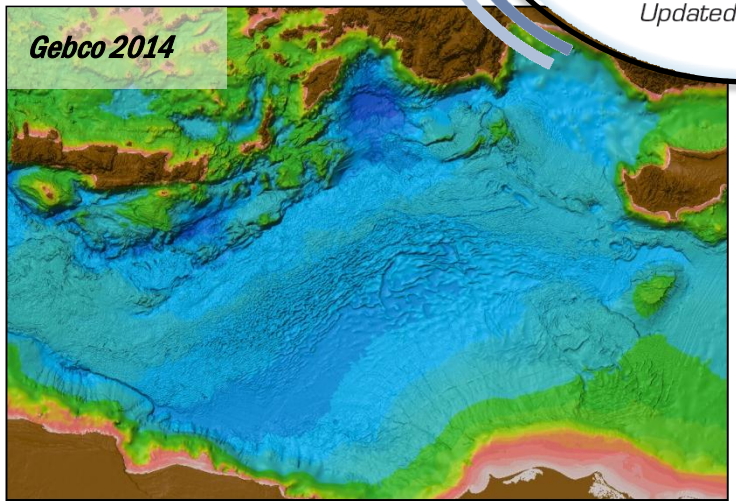
Understanding the topography of the European seas

GEBCO EMODnet a virtuous ycle

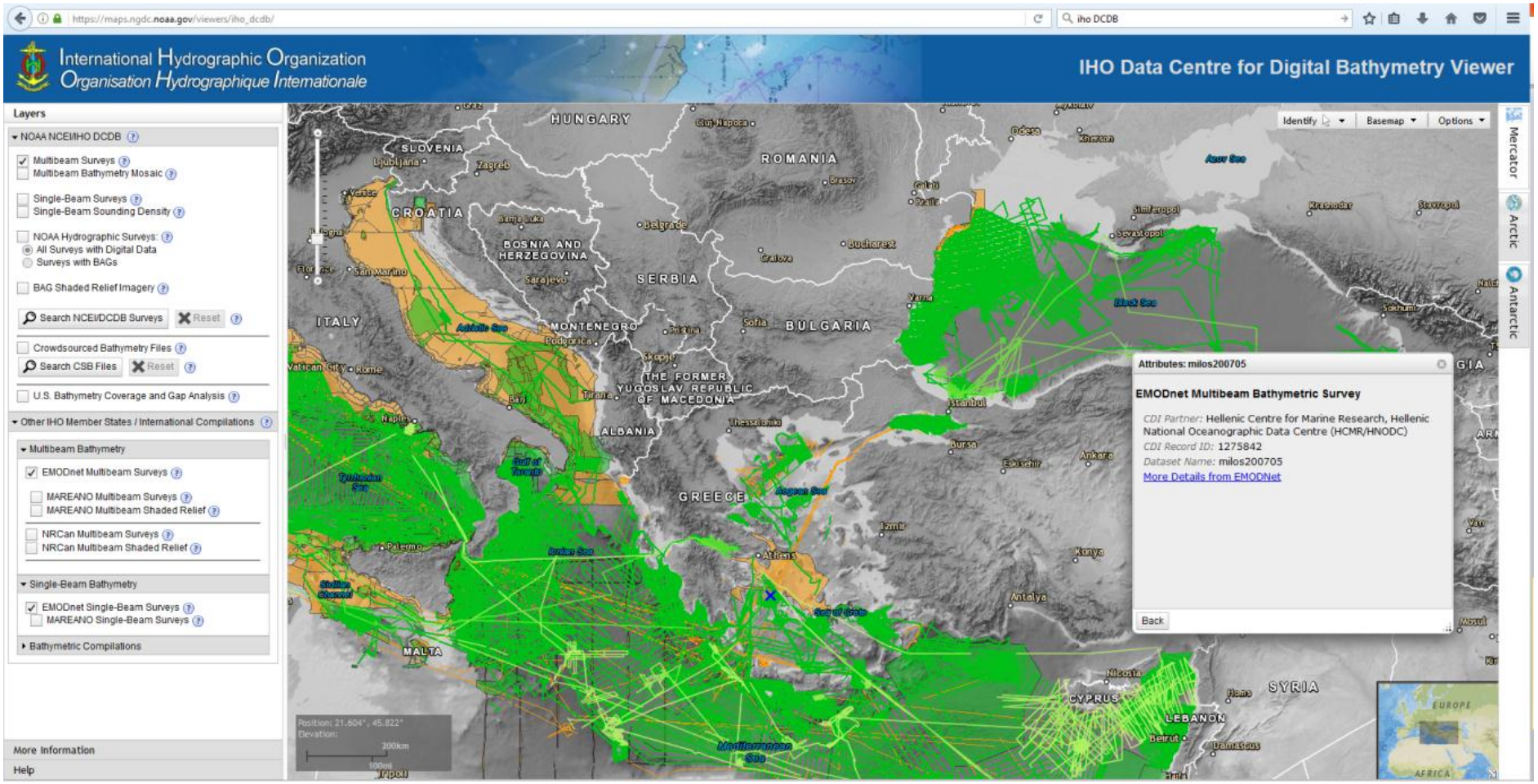




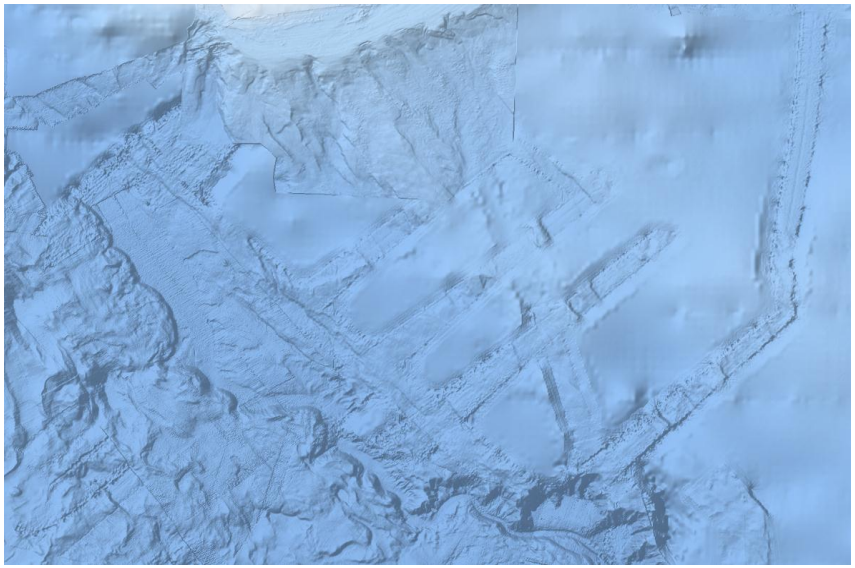




IHO DCDB bathymetric data inventory



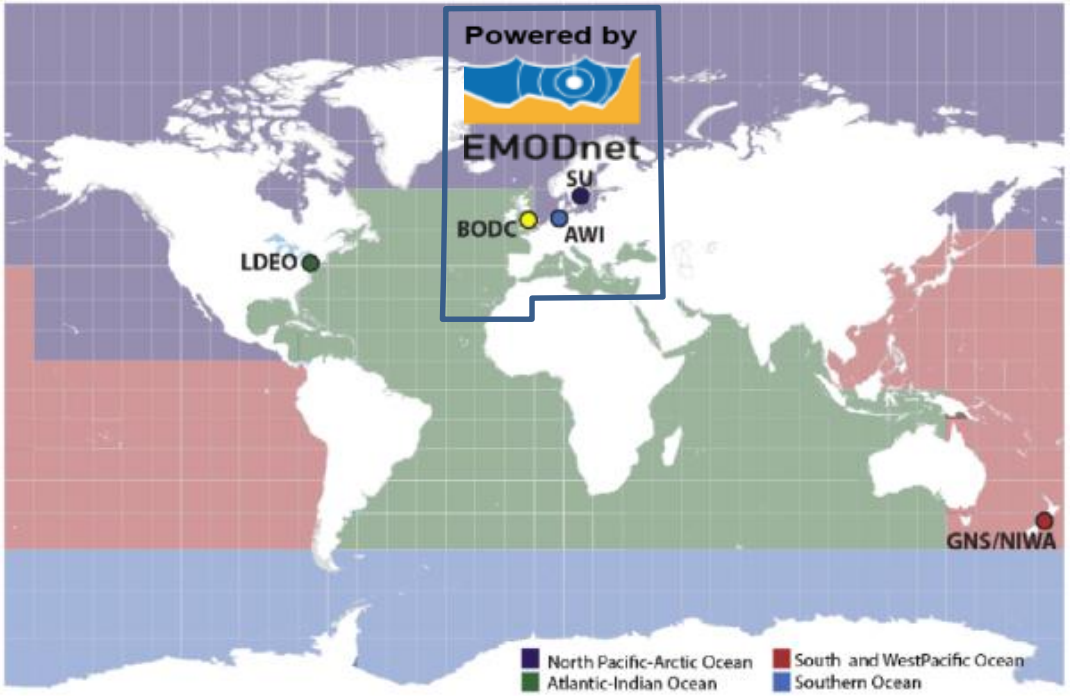
GEBCO/SEABED 2030 and EMODnet Technical improvements



Conclusions and Future works

EMODnet Bathymetry is providing ways to:

- **Discover bathymetric data**: inventory of existing data in EU and from EU organizations worldwide, with associated metadata.
- **Share data**: Access to source data is ensured. EMODnet Bathymetry provides the facility for the provider and the user to set the conditions of the use of the bathymetric data.
- **Find gaps and fill them**: using for example satellite derived bathymetry near the coast



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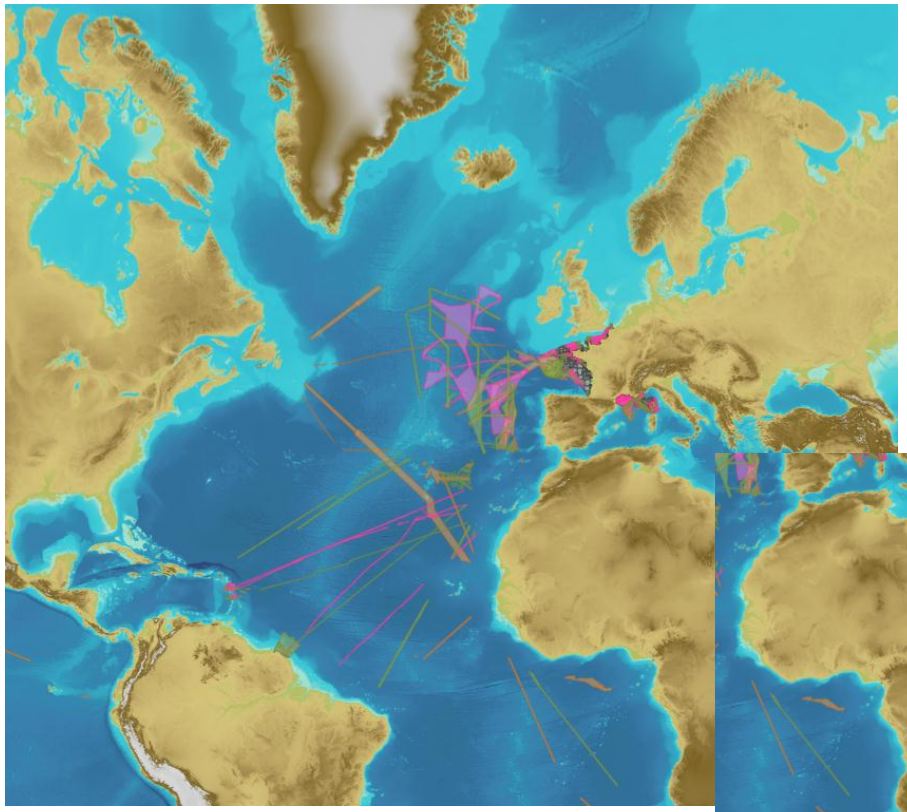

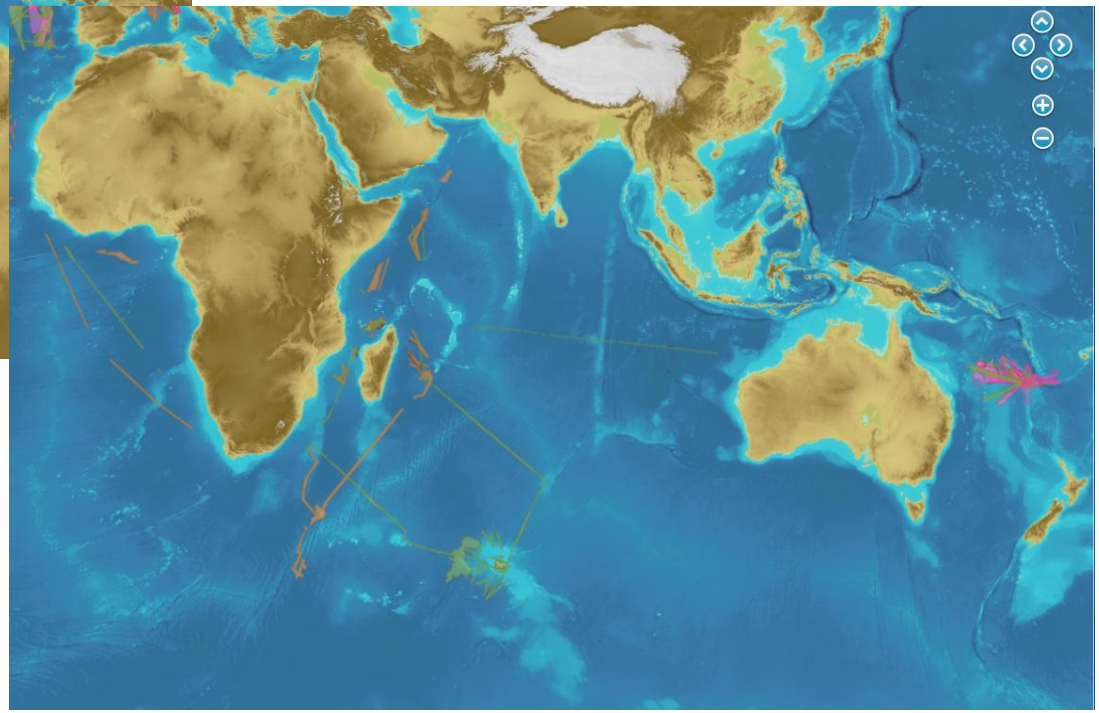

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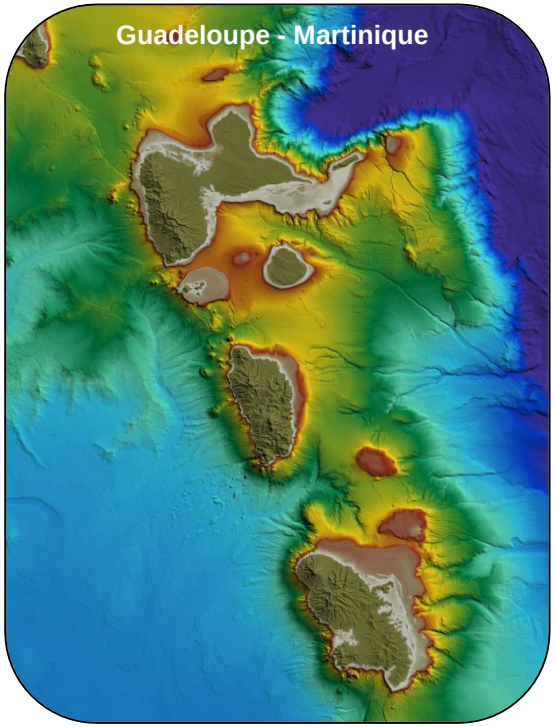
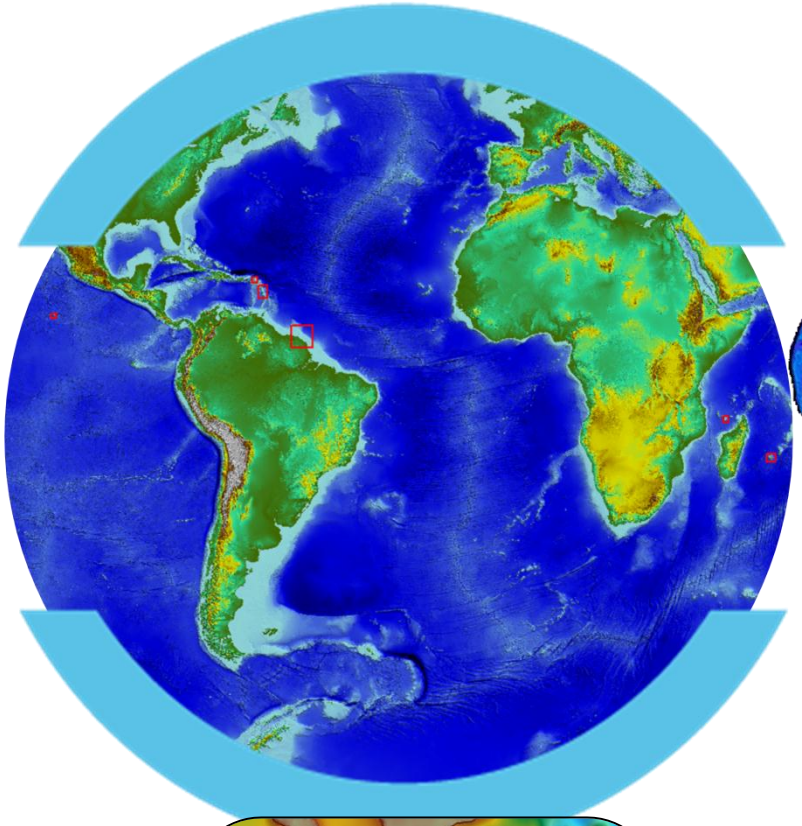
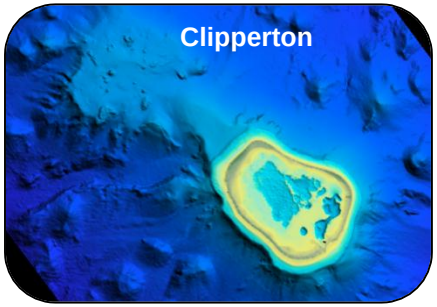
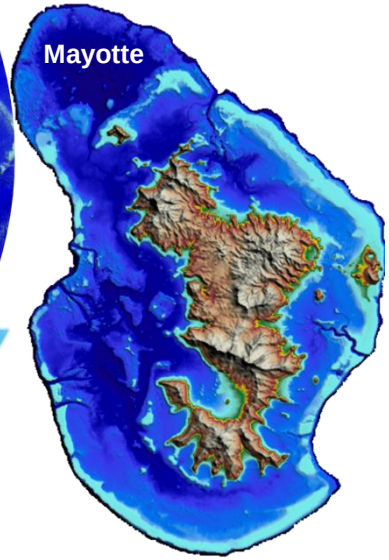
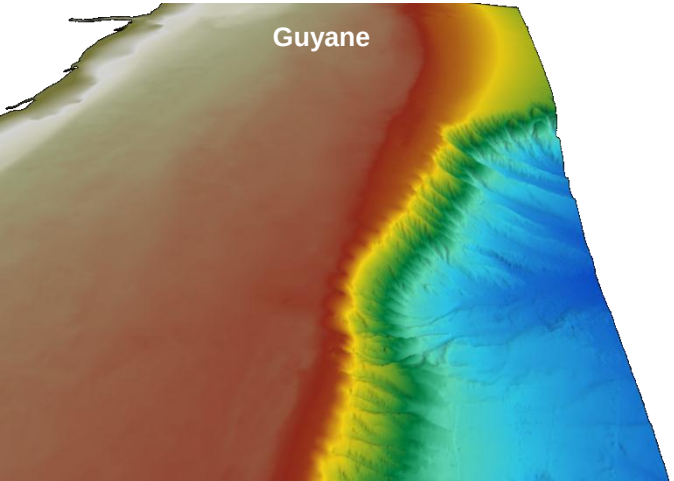
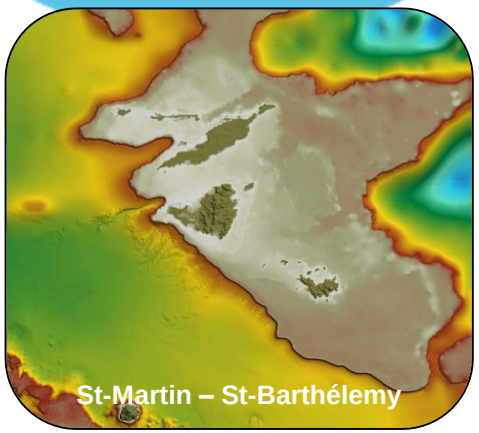

Guadeloupe - Martinique

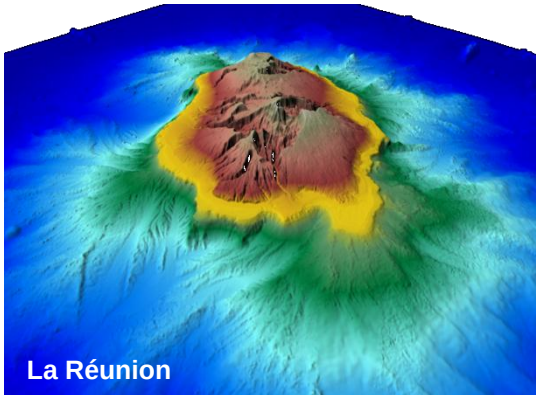



Clipperton


Mayotte


Guyane


St-Martin – St-Barthélemy


La Réunion