

EMODnet Bathymetry

https://emodnet-bathymetry.eu/

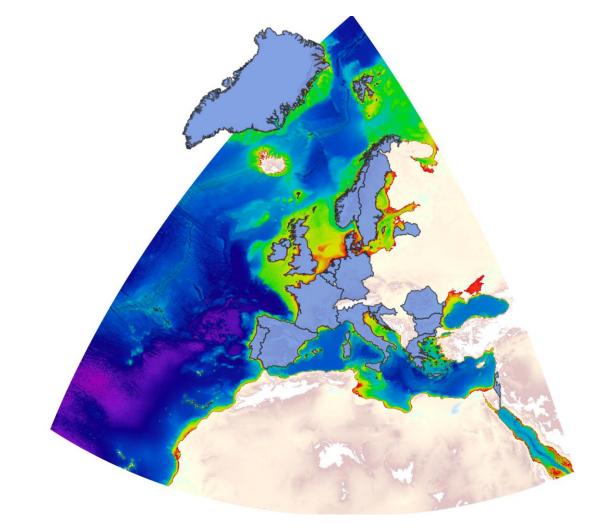
The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.

Who are we?

- Hydrographic offices
- Research institutes
- Small and medium size enterprises

EMODnet Bathymetry's philosophy

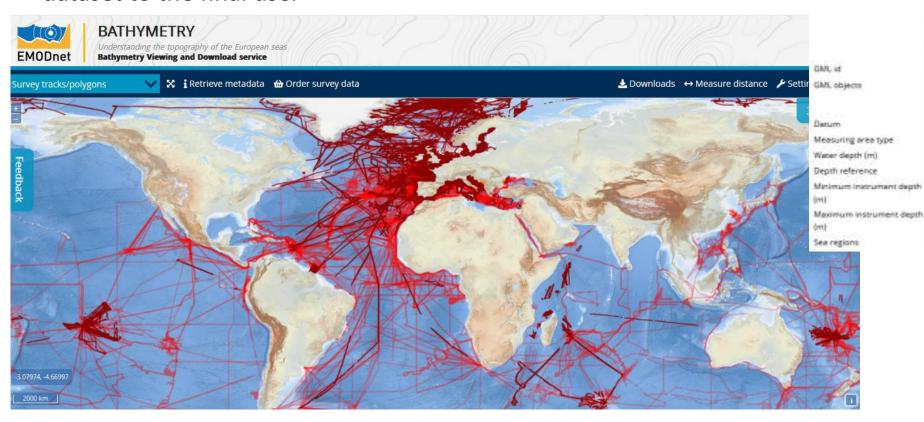
- Allow european member states to comply with INSPIRE's Directive and FAIR principles on the bathymetric theme
- Expose existing bathymetric data
- Generate synthetic products covering most of users' needs
- Preserve the data provider at the center of the process (with respect to national jurisdiction national security, data policy, ...) with a focus on filiation of the source of the information and its quality





Bathymetric metadata

- Each polygon/poly-line shows the bathymetric coverage/location
- Associated Metadata (INSPIRE compatible, ISO 19115- based upon an unified and agreed thesaurus – BODC held)
- Source data held by the data provider, who decide how to provide its dataset to the final user



WHATZ

Data set name

Discipline

Parameter groups

GEMET-INSPIRE themes

Abstract

Data format Daca size

Data set creation date

WHERET

vakloding NH-SK Marine geology Terrestrial Gravity, magnetics and bathymetry Discovery perameters Bathymetry and Elevation Oceanographic geographical features Bathymetric data extract from bathymetric database. XYZ ASCII Version 1.0 20140613



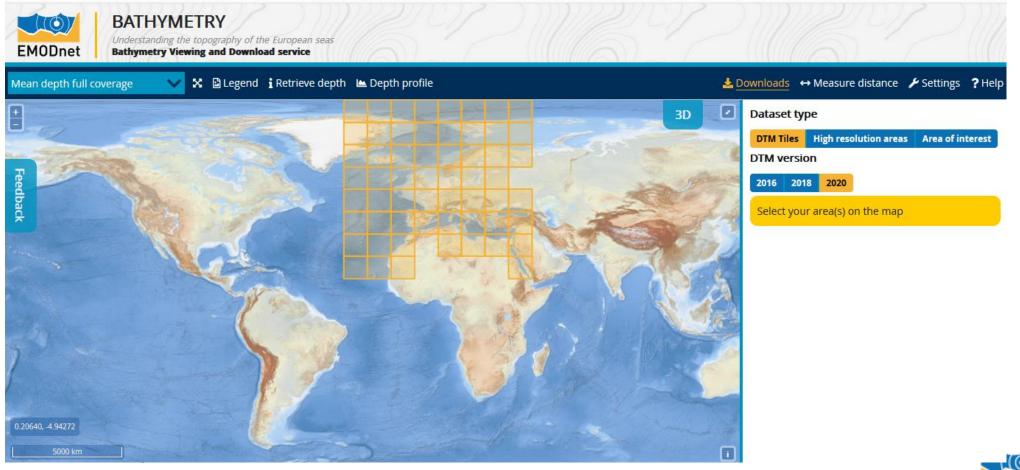
-9999

Normaal Amsterdams Pell

North Sea

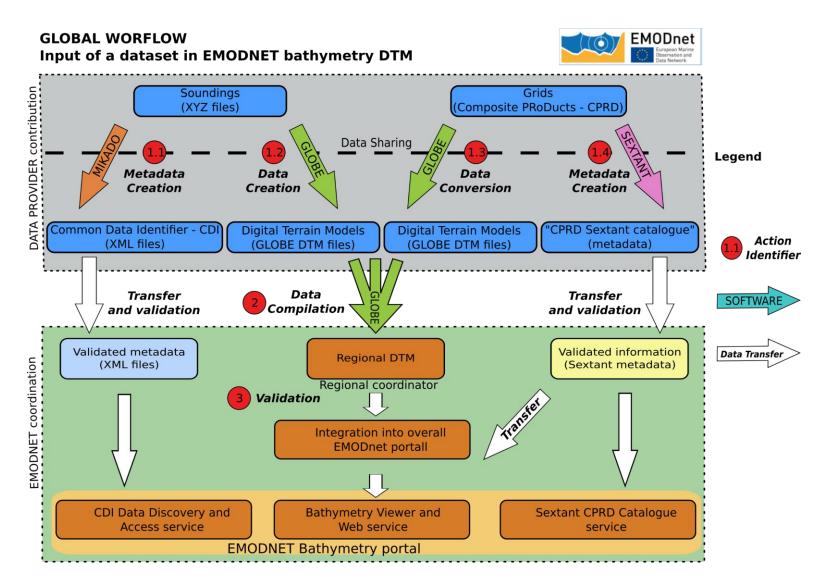
EMODnet Bathymetry DTM

- 1/16 arc-minute (approx. 100m)
- Built from data from partners (HO, Oceanographic centers, private partners)
- DOI, free of charge, free to use
- Available at MSL and LAT



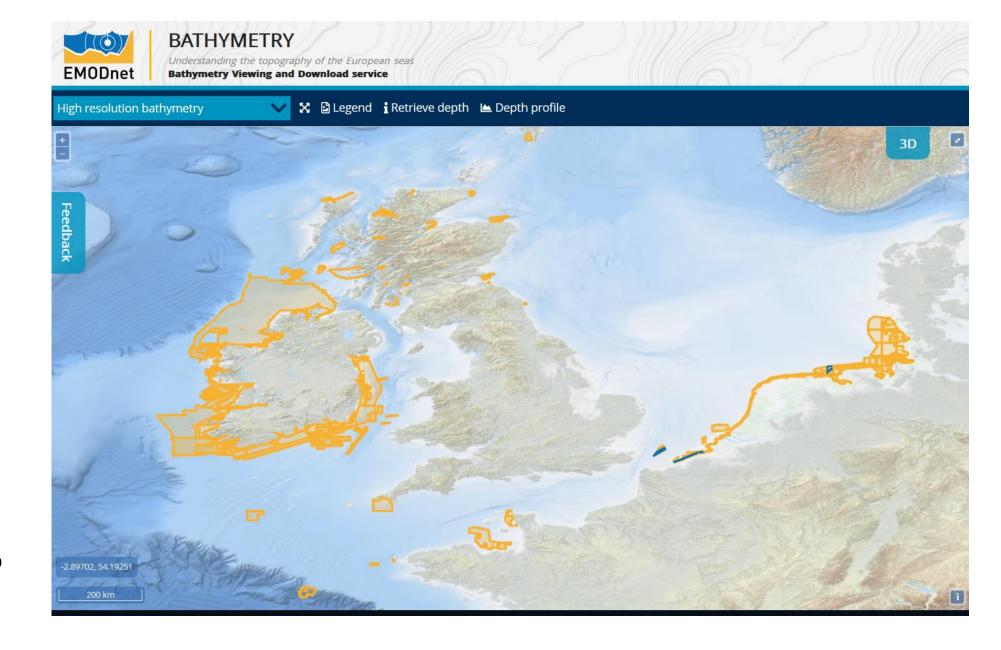


A shared methodology





HR DTM



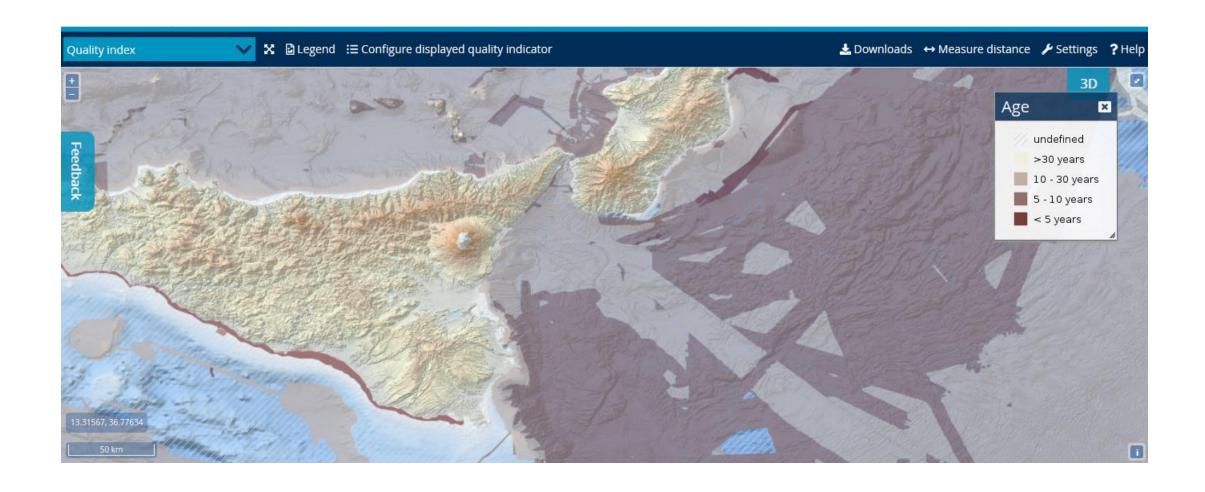
 > 200 High resolution DTM (resolution up to the m)







Use of the Quality layer

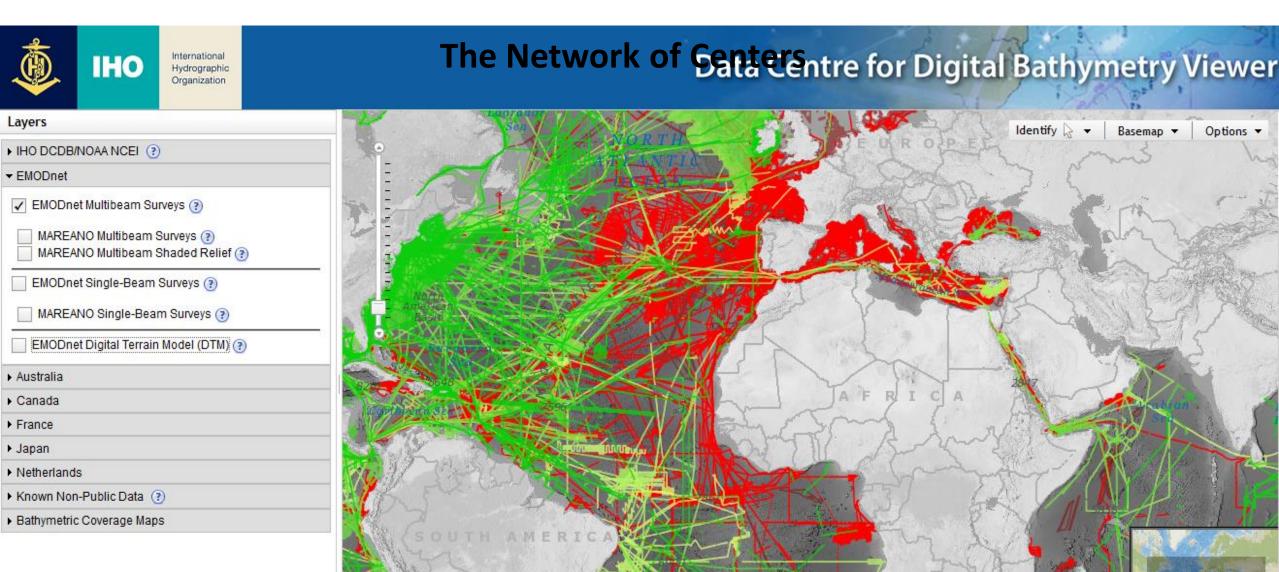




Our collaboration with GEBCO Seabed 2030

More Information

Help



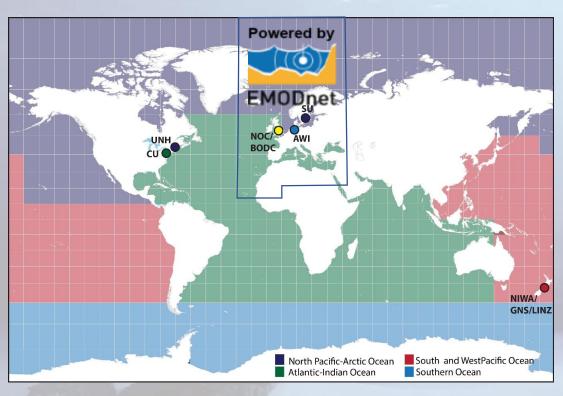
Identify →

Basemap ▼

Options -

Our collaboration with GEBCO Seabed 2030

The Network of Centers



North Pacific -Arctic Ocean

Stockholm University & University of New Hampshire (SU & UNH)

Southern Ocean

Alfred-Wegener-Institut (AWI)

Atlantic-Indian Ocean

Lamont-Doherty Earth Observatory, Columbia University (**CU**)

South-West Pacific Ocean

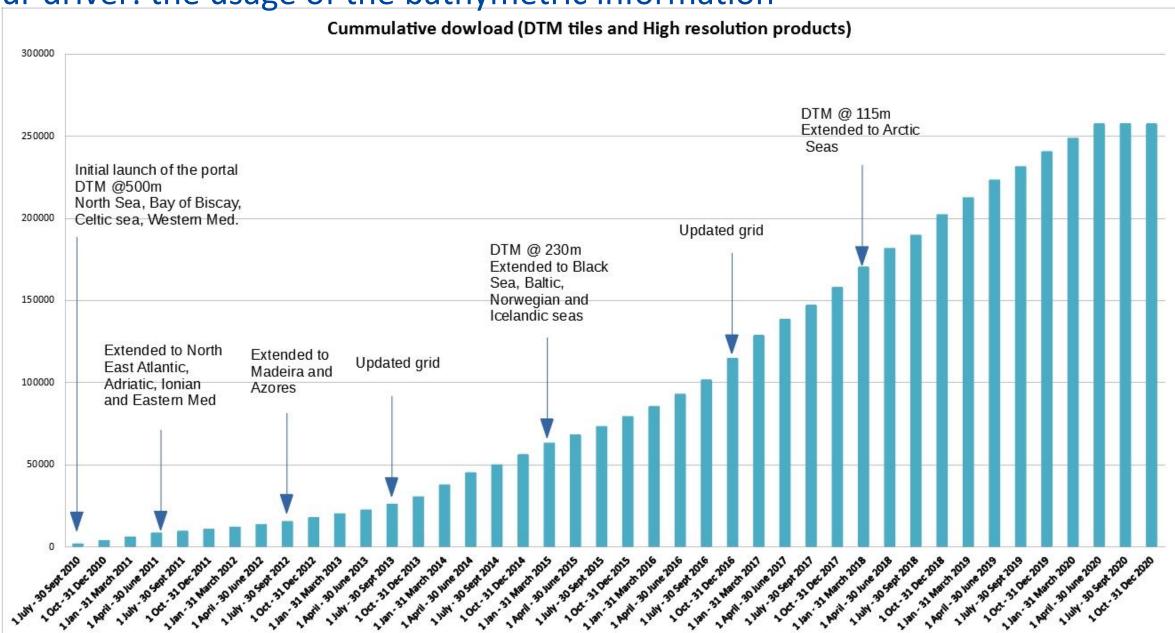
National Institute of Water & Atmospheric Research (NIWA) Land Information New Zealand (LINZ) GNS Science (GNS)

Global Center

British Oceanographic Data Centre,
National Oceanography Centre (NOC/BODC)



Our driver: the usage of the bathymetric information



EMODnet Bathymetry's future

- Update full DTM (end 2022)
- Improve High-resolution DTMs
- Improve quality assessment of our DTM product
- New area of interest: "European overseas territories": Caribbean seas
- Further facilitate the collaboration between all the actors through automation of services (e.g. integration of information from EMODnet Ingestion) and collaborative virtual environment for the analysis of our production (DTM).
- Efforts in tide modelling (LAT -> MSL shift)
- Pursue effort in evaluating "new technologies" to fill data gaps / quality assessment (SDB, Altimetry, IceSat-2)
- Unifying all portals EMODnet thematic portals into a unique data portal. Foundation for the "Digital Twin of the Ocean"
- Further collaborate at the international level (DCDB, GEBCO, Seabed 2030)

