

Achievements and outputs of the EMODnet Sea-basin Checkpoints

Webinar - EMODnet A decade of achievements connecting marine data to knowledge

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The Checkpoint Concept



- We only have an approximate overview on a sea-basin scale of (data) gaps and duplications and no overall view of priorities for further data collection or assembly;
- Checkpoints evaluated how well the current monitoring systems and data collection frameworks provided data to meet the needs of users;
- By testing the data against specific end-user challenges;
- Highlighted data gaps, duplications and bottlenecks.

Source: EMODNet Central Portal; https://www.emodnet.eu/checkpoints



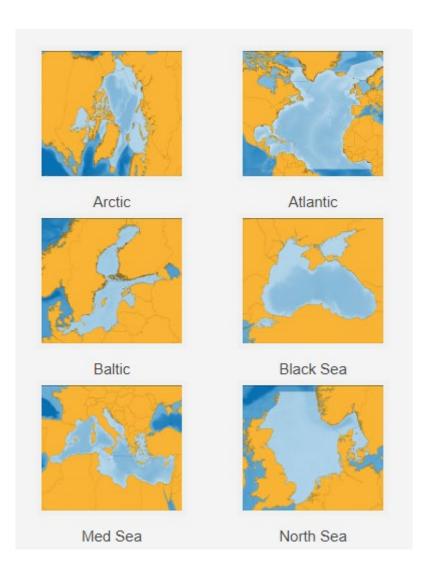
The Checkpoints



Arcadis

Danish Meteorological Institute (DMI)

INGV



Ifremer

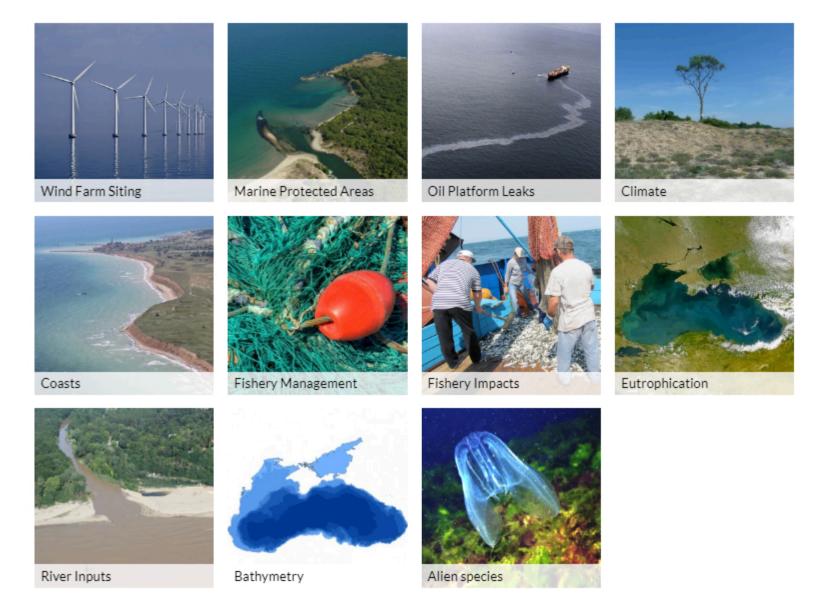
IO-BAS

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The Challenges

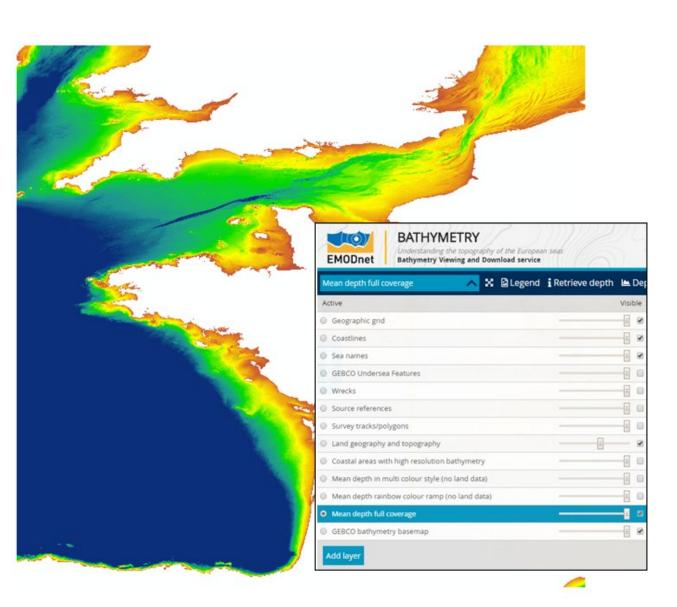






Real Use Case: Hydrodynamic Modelling in the English Channel





Tile E4:

- xyz format,178
 MB
- unzipped to 1.3GB

EMODnet

Bathymetry DTM

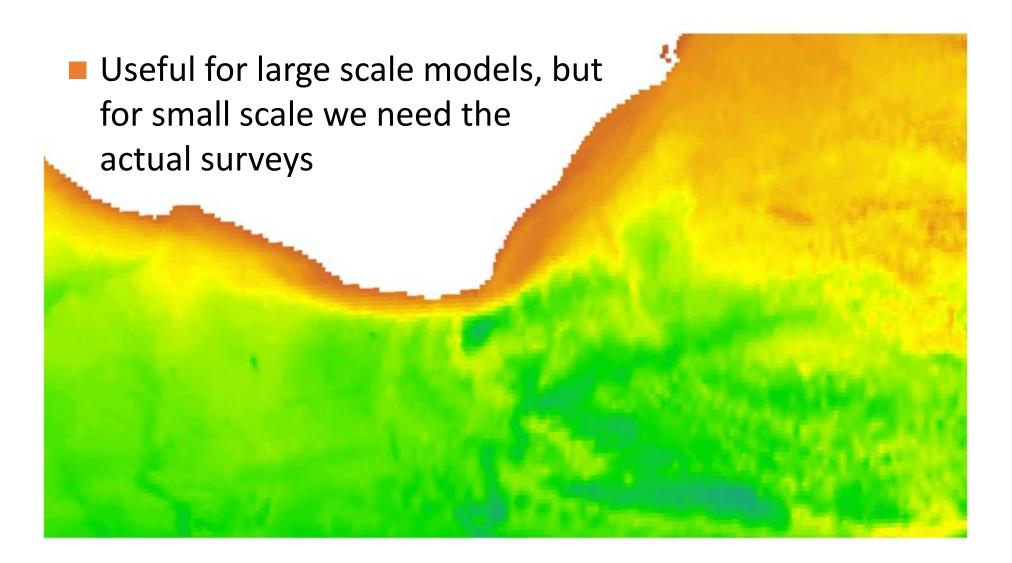
Data Product from

Bathymetry portal



In ArcGIS with British National Grid







Checkpoint Results



Comprehensive set of reports at:

https://www.emodnet.eu/checkpoints/reports.

Synthesis report:

- Sampling gaps could be filled through better partnerships with satellite and modelling communities.
- Suggestion to concentrate on Essential Ocean Variables (EOV) and build longer histories.
- Many biological variables would benefit from more standardisation and a more systematic approach to monitoring.



Checkpoint Results



Synthesis report continued:

- Length of time to employ the dataset (how long it takes to use it) is an important consideration.
- Collaboration with non-EU countries (e.g. Russia, North Africa) (and now the UK) is fundamental.



Characteristics of the Best Data Products



Realistic and Relevant

Data products presented for the convenience of the users NOT the suppliers; not 'overhyped'

Clear

Supplied with concise, well explained, jargon-free supporting information, including provenance

Usable

Simple to find, access and process



Checkpoint 'Rome Indicators'



Visibility: How easy was it to find out that the data existed and understand what was on offer?



■ Terms and Conditions: Did you have a licence to use the data and at a reasonable price?



Availability: How easy was it to obtain the data?



■ Accessibility: How easy was it to open and process the data? ★★★★★



Clarity: Did you understand the data?



Utility: Spatial coverage and resolution; temporal coverage and resolution; was the data of a sufficient quality to meet your needs?





30 Minute Challenge



To evaluate a potential data provision, users need to be able to answer the following three questions within 30 minutes:

- Which phenomena / parameters are available?
- What is the spatial and temporal coverage?
- Am I licenced to use it commercially?





www.emodnet.eu

Your gateway to marine data in Europe