

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


## EMODnet High Resolution Seabed Mapping

9<sup>th</sup> EMODnet Steering Committee meeting, Mallorca – Spain  
March 2018

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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.



## Overview

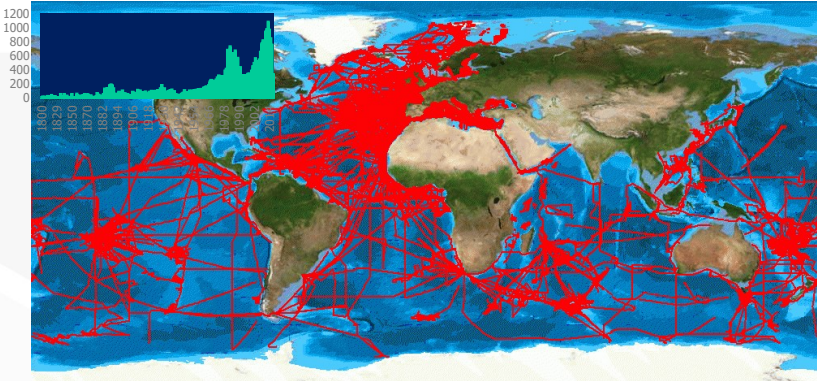
- Inventory and access to the data : Metadata
- Digital Elevation Model synthesis (EMODnet 125m resolution)
- Coastal Elevation improvements
- Coastline
- Recent communications and user feedback
- Administrative arrangements and project management

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## Data gathering and populating the SeaDataNet directories for bathymetry

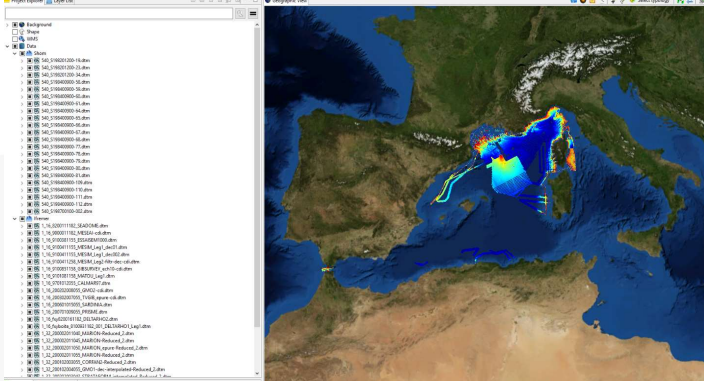
Up till today, **26875** survey CDI metadata records from **39** data centres from **18** countries and **241** data originators from **1816** to **2017** have been collated and imported into the dedicated EMODnet Bathymetry CDI data discovery and access service.




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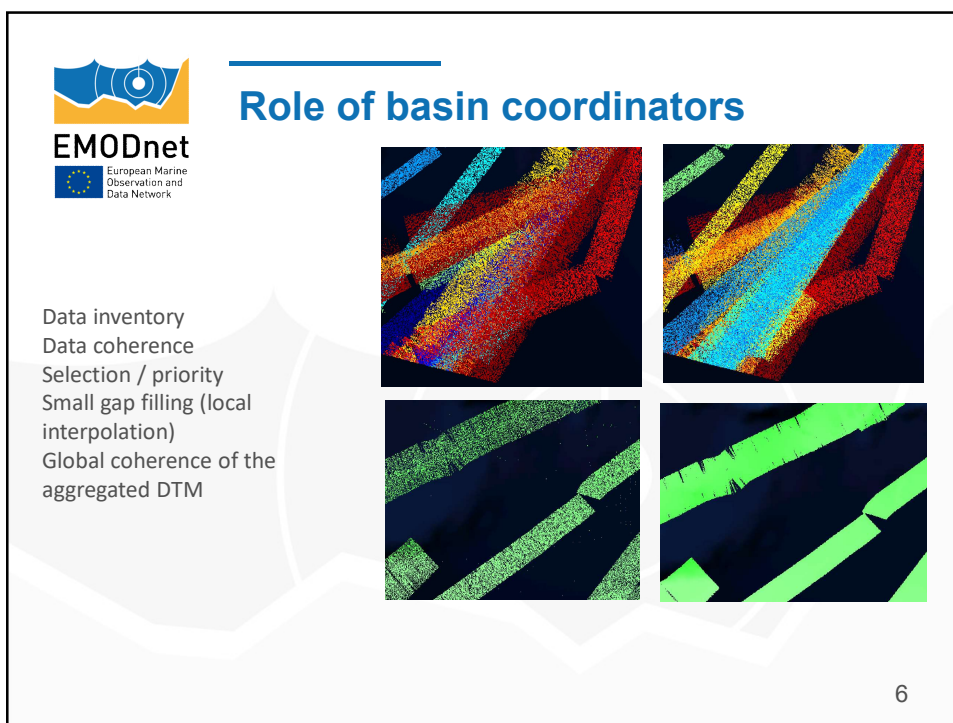
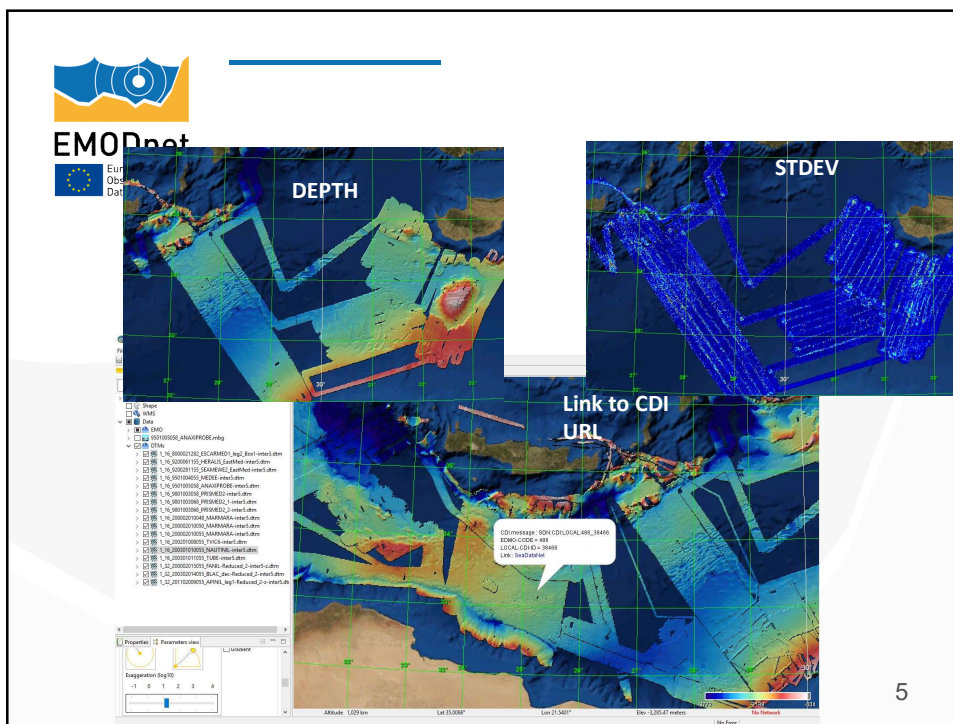


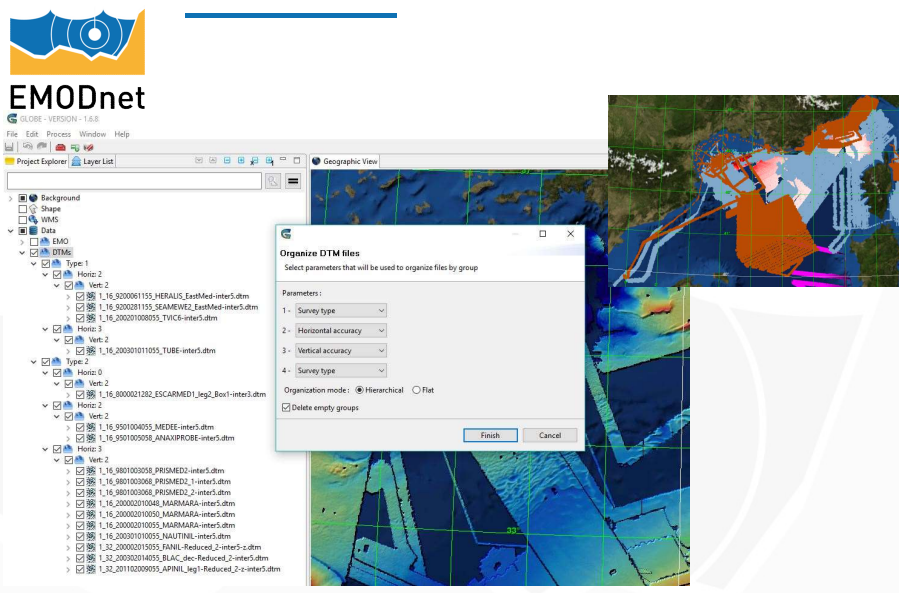
## Globe as a tool to prepare the dataset





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**EMODnet**  
GLOBE - VERSION - 1.8.8  
File Edit Process Window Help  
Project Explorer Layer List Geographic View

**Organize DTM files**  
Select parameters that will be used to organize files by group

Parameters:


- 1- Survey type
- 2- Horizontal accuracy
- 3- Vertical accuracy
- 4- Survey type

Organization mode:  Hierarchical  Flat  
 Delete empty groups

Buttons: Finish Cancel

Meeting held in January 29<sup>th</sup> - 30<sup>th</sup> for Bassin Coordinator

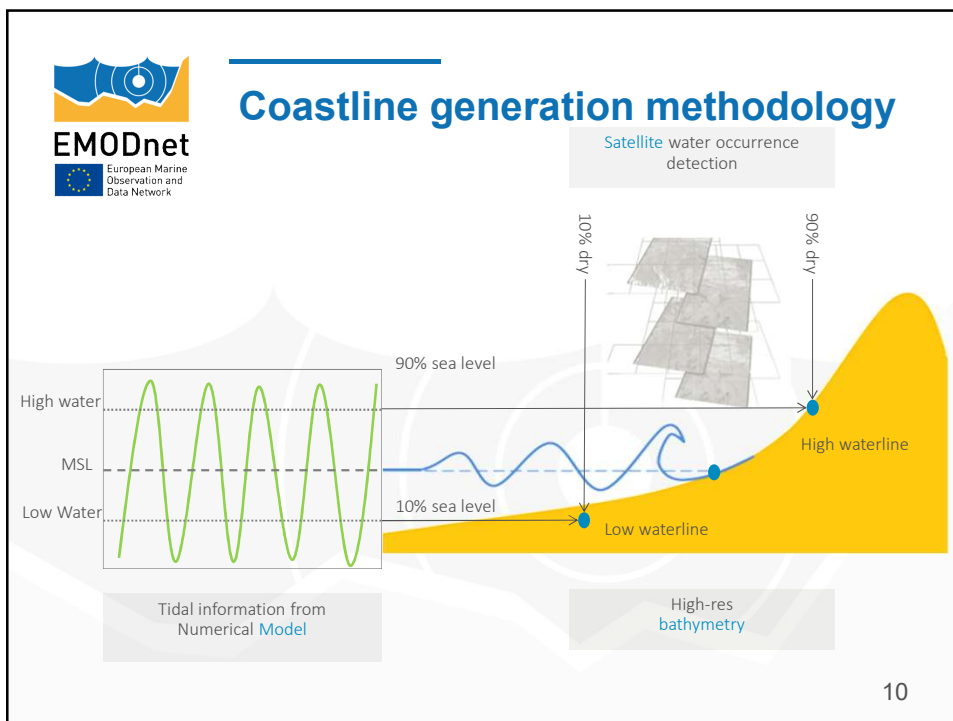
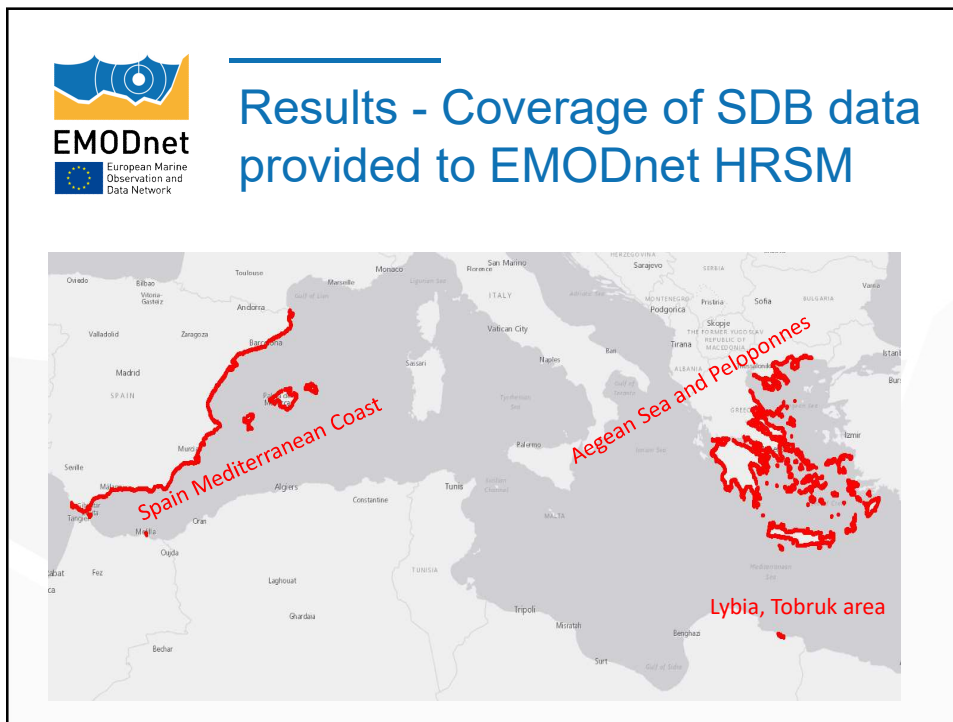
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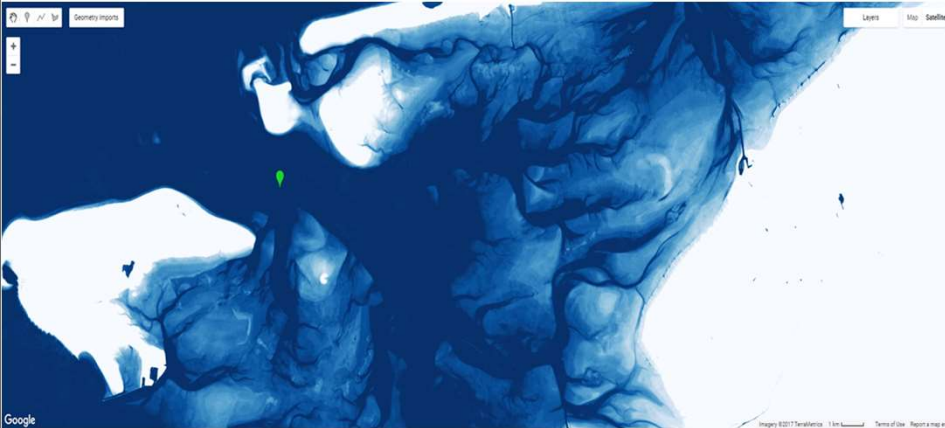
## Baleares SDB


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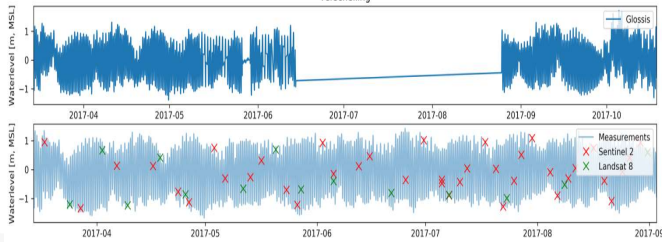


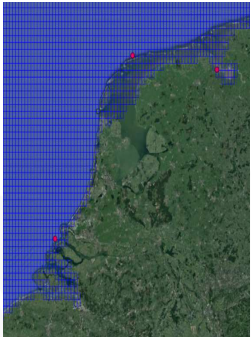
## Satellite image processing (selection + Probabilistic cloud removal, 2013-2017)

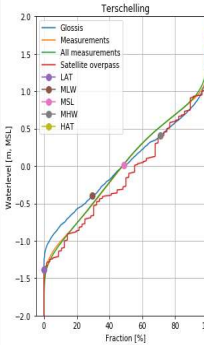


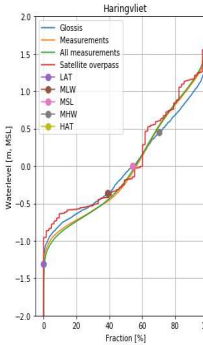


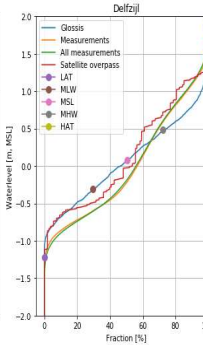
## Water level validation



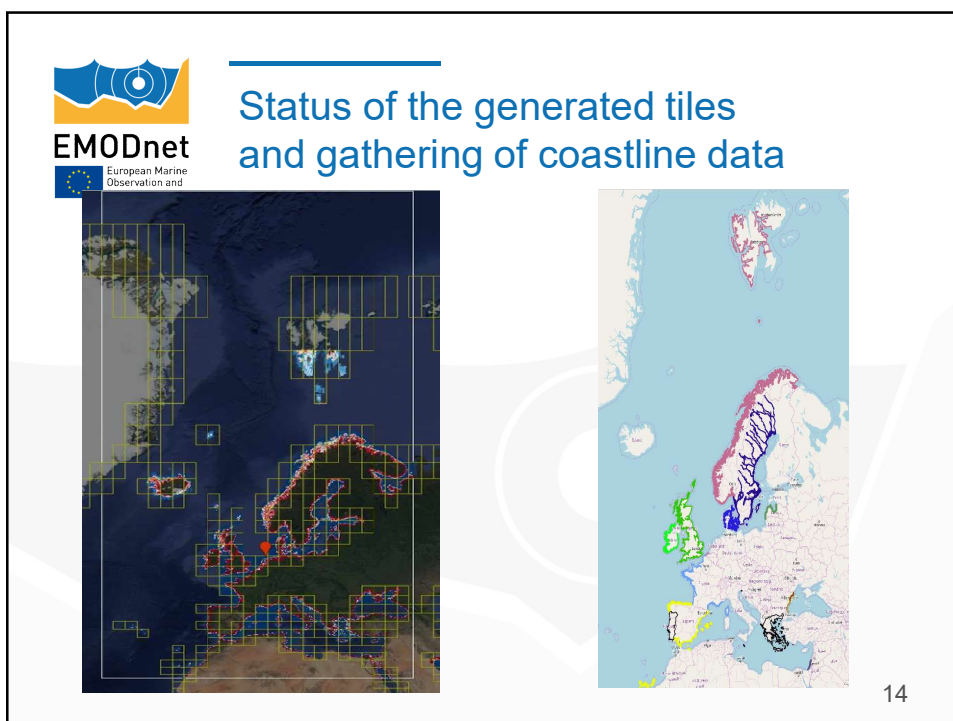
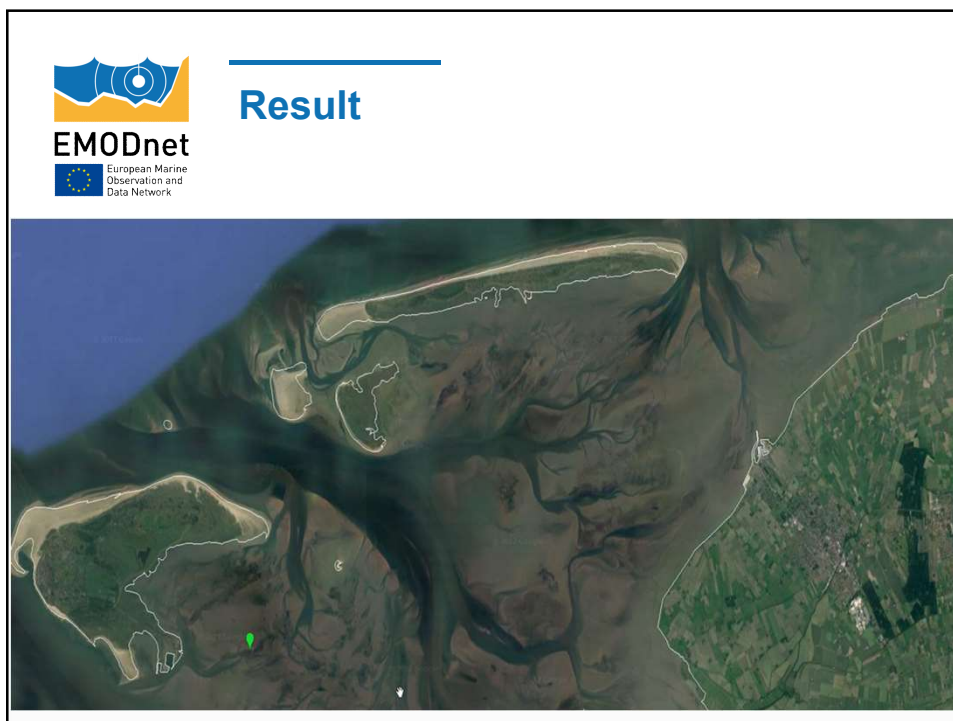


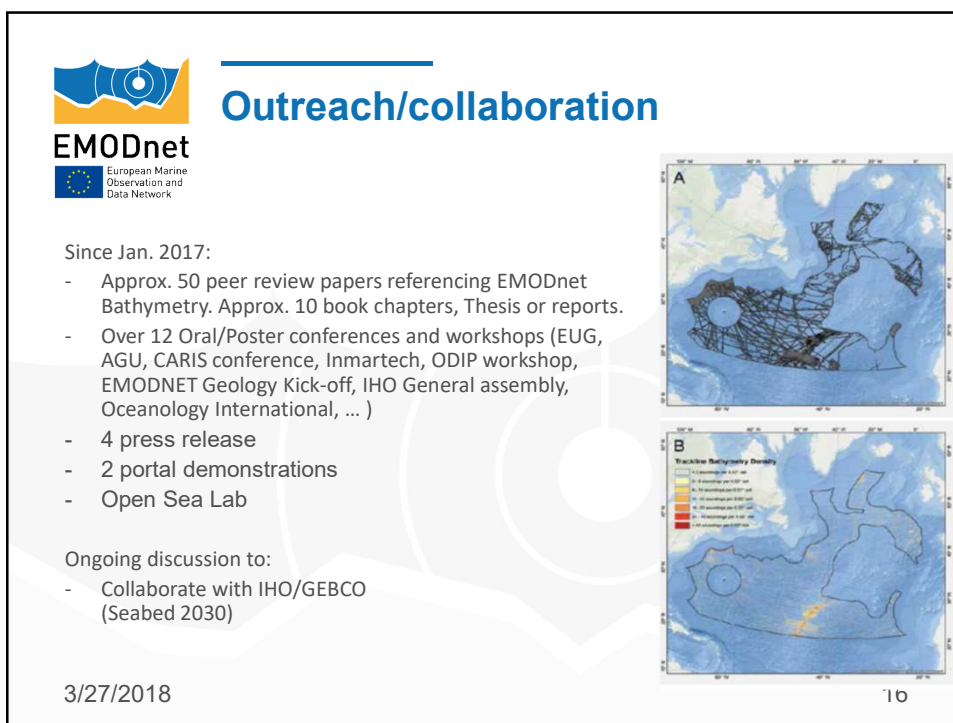
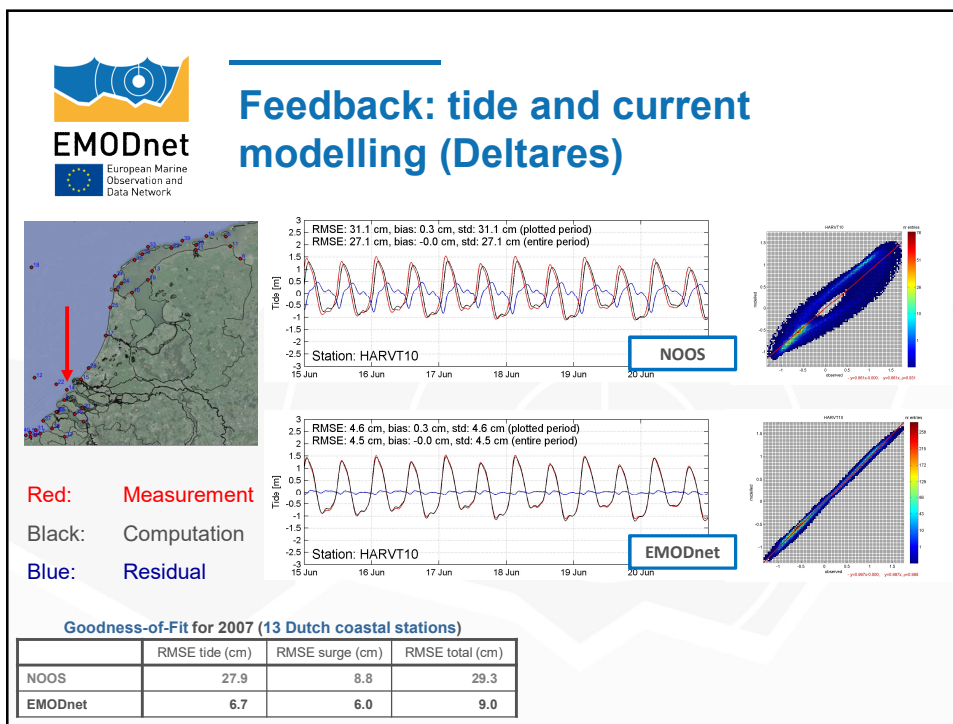






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## Project management / future tasks

Annual report sent and accepted  
 Annual EMODnet HRSM meeting held in Heraklion, October 25th and 26th  
 Basin coordinators to submit their contribution for final integration by the end of March  
 Release of DEM targeted for June/July.

Concurrent actions on coastline (see previous slide)  
 Concurrent actions on CVE (Collaborative Virtual Environment) for a demonstrator to be released Fall 2018

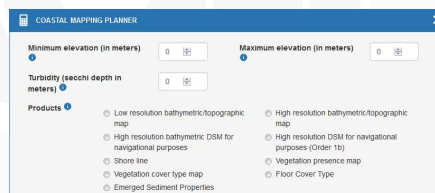
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## Coastal mapping

- Portal to be closed end of June 2018 (25th) as project ends.
- ~95% of bathymetric data are already present in EMODnet HRSM. Only Hellenic Navy Hydrographic Service is not within our list of contributors. HNHS data do not have EMODnet Bathymetry metadata and data formatting.
- To investigate how to integrate data information collected/generated by the project (Secchi disk layer and Coastal Mapping Planner).



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## Summary

- Explain the actions you have undertaken, or planning, to develop a more user oriented approach, in particular to engage with private sector to stimulate use, to obtain feedback on the provided services, to ask about their requirements and actions undertaken to cater for their needs in terms of data, products and the way these can be searched, found, manipulated and retrieved.
- Undertaken: since early stage numerous outreach events (scientific/technical conference), international organisation working group, feedback from helpdesk, collaboration with other data portal to enhance data access and retrieval.
- To be undertaken: user feedback through questionnaire, more advertisements in identified sectors (fishing, dredging, natural resources, civil engineering, ...).
- **Steps undertaken and progress made to engage with Regional Sea Conventions to cater for their needs.**
- Inclusion of EMODnet Bathymetry in IHO product (GEBCO) implies defacto standard. Large community of EMODnet consortium members allowing for interaction with multiple regional sea conventions Hydrographic commission (Baltic, North Sea, Arctic, North Atlantic, Mediterranean areas, Black Sea).

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