

What next?

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Rhodes 18 Sept 2012



European Marine Observation and Data Network



Background

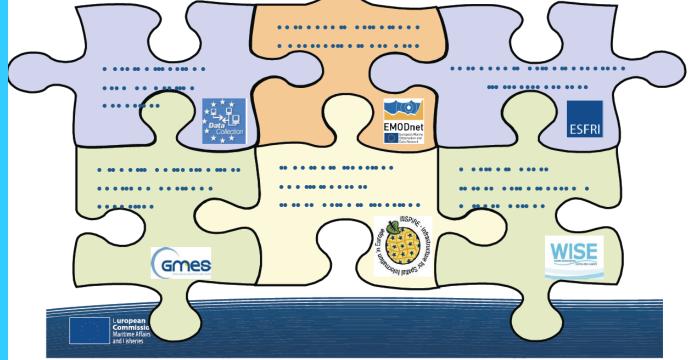


- EU has adopted the Marine Directive and Maritime Policy.
- In its Blue Book the Commission proposed to take steps in 2008 towards an overarching European Marine Observation and Data Network (EMODNet)
- EU Taskforce is lead by DG-MARE and comprises also representatives of DG Research, DG Enterprise (GMES), DG Environment, and EEA.
- The initial Roadmap for EMODNet was released in April 2009
- The Roadmap provides an overview of the main data and information service categories to be covered, some of their sources and uses, as well as examples of benefits and added value of better integration, and it clarifies how this initiative relates to other initiatives.

Background



- A cost benefit analysis reveals that the cost of marine observation in Europe is circa 400 Million Euro per year for space data and another 1 Billion Euro per year for in-situ data => better availability and access can give benefits of at least 300 Million Euro per year for industry, research, government and public
- EMODNet development must be complimentary to other existing EU initiatives



Principles for EMODNet set-up



- Collect data once and use it many times
- Develop interoperable standards
- Focus on sea-basins
- Requires sustainable funding at EU level
- Build on existing structures
- User driven
- Clarify ownership, accuracy and precision
- Freedom of use for publicly funded data

European Marine Observation and Data Network





a network of existing and developing European observation systems, linked by a data management structure covering all European coastal waters, shelf seas and surrounding ocean basins, accessible to everyone

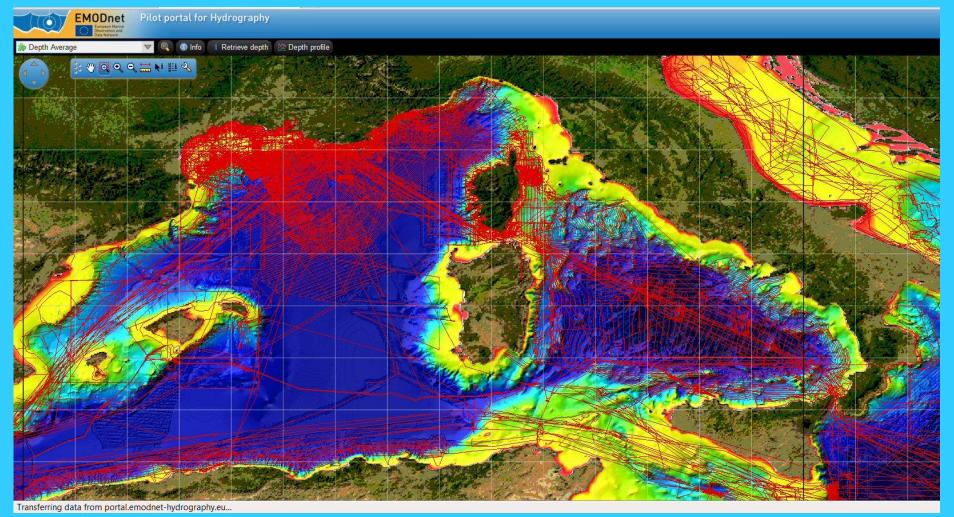
Preparatory actions



- To further the aims set out, the Commission launched preparatory actions. These aim at setting up portals to grant access to certain types of data over a number of maritime basins.
- 3 year data pilots (2009 2011; budget ca 6.5 Million Euro), harvesting from DG Research developments:
 - Geology undertaken by EuroGeoSurveys consortium
 - Chemistry undertaken by SeaDataNet consortium
 - Biology undertaken by EurOBIS MARBEF consortium
 - Hydrography undertaken by sub SeaDataNet consortium
 - Marine Habitats undertaken by JNCC consortium
 - Physics undertaken by EuroGOOS MyOcean SeaDataNet consortium
- Portals for regional data products and underlying data
- Interoperability
- Engaging a large community of European data providers
- Identifying data availability and gaps in data coverage

Examples: Hydrography





Viewing service with downloadable digital bathymetry (DTM – 450 m grid) and overlay of CDI survey data sets

Examples: Biology

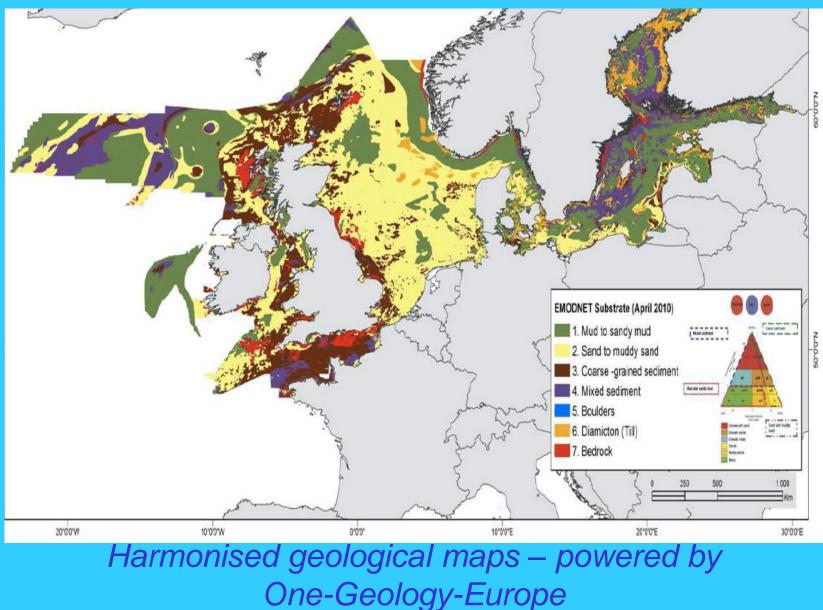




Marine biodiversity data and maps – powered by EurOBIS

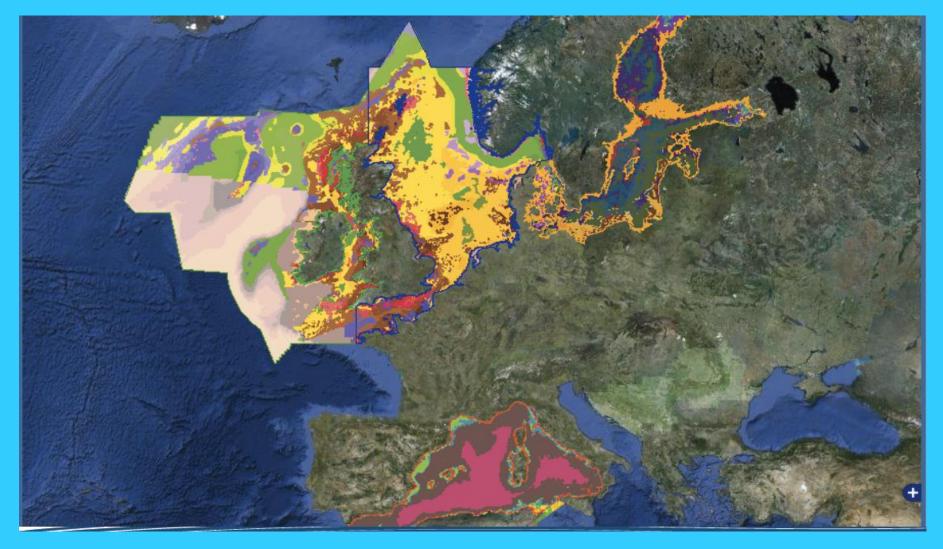
Examples: Geology





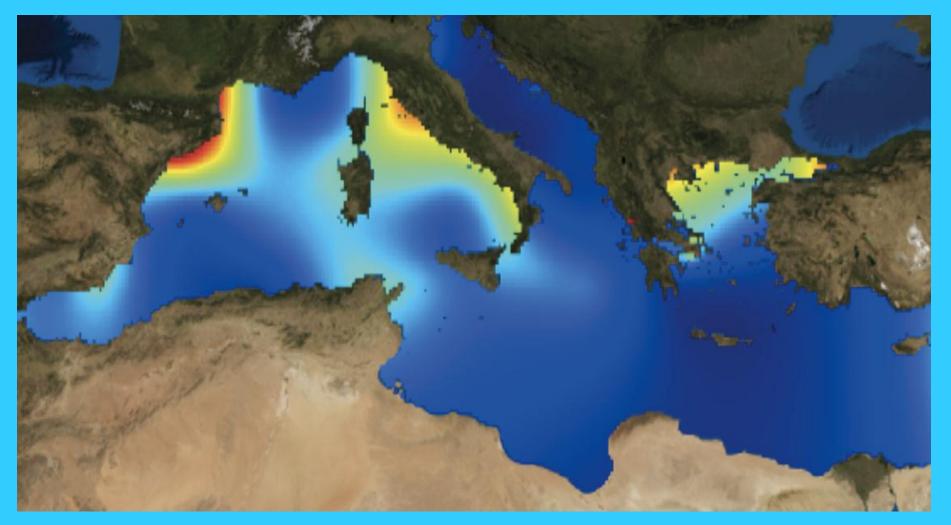
Examples: Seabed Habitats





Examples: Chemistry

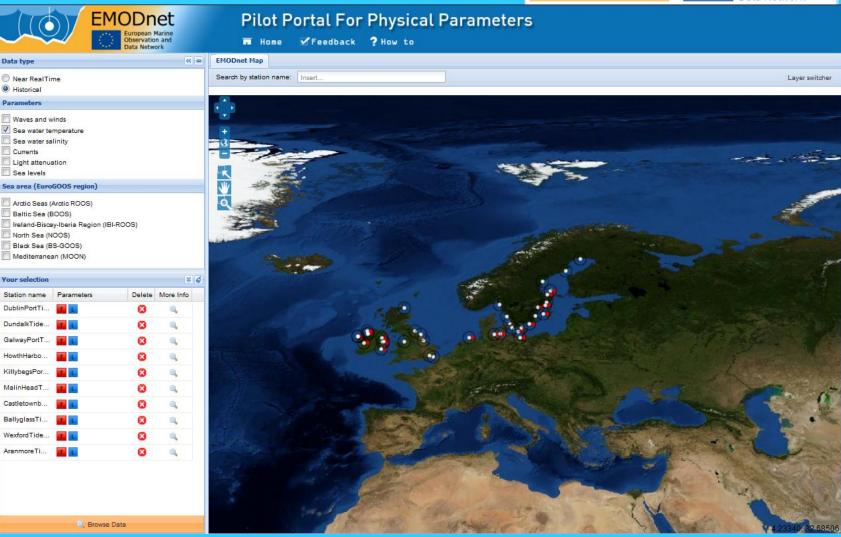




Temporal and spatial distribution of matrix of chemical substances relevant for MSFD implementation

Examples: Physics



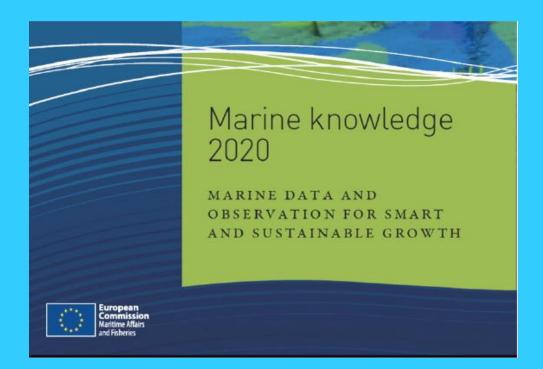


Near Real Time and long term Archived data sets of fixed operational oceanographic stations (ca 500) and Ferry Boxes

Future EMODNet

- Marine Knowledge 2020 adopted September 2010
- Outlining architecture & governance model for marine data & observations
- Available budget of ca 22 Million Euro (2011 – 2013) for expanding the pilots to full European marine coverage and product improvements





New proposals – deadline 10 / 17 Sept 2012



- EMODNet Biology 1,7 Million Euro coordinated by VLIZ
- EMODNet Bathymetry 2,0 Million Euro coordinated by MARIS
- EMODNet Physics 1,0 Million Euro coordinated by ETT/ENEA
- EMODNet Physical habitats 1,39 Million Euro coordinated by JNCC/IFREMER
- EMODNet Chemistry 4,0 Million Euro coordinated by OGS
- EMODNet Geology 4,2 Million Euro coordinated by BGS
- EMODNet Human Activities 2,06 Million Euro coordinated by ?

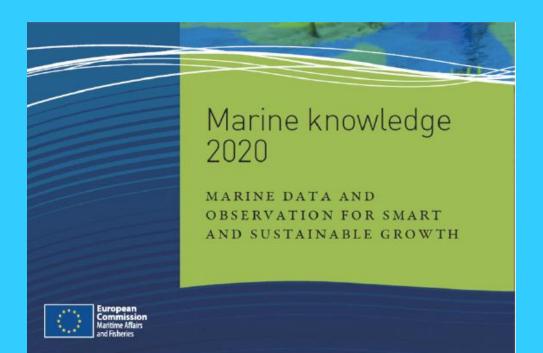
PLUS

- EMODNet Seabasin checkpont study North Sea 0,7 Million Euro coordinated by CEFAS
- EMODNet Seabasin checkpont study Mediterranean 1,1 Million Euro - coordinated by INGV

General objectives

- Reduce operational costs and delays for those who use marine data and therefore:
 - help private industry
 - improve the quality of public decision-making at all levels
 - strengthen marine scientific research
- Increase competition and innovation amongst users
- Reduce uncertainty in knowledge of the oceans





Governance 2011 - 2013



- Priorities
 - Commission advised by
 - Marine Observation and Data Expert Group (independent)
 - Member States Expert Group (to be set-up)
- Technical support
 - Prototype secretariat
 - prepare meetings
 - assess thematic assembly groups/sea-basin checkpoints
 - prepare annual reports of activity
 - portal providing access to data and product services from thematic assembly groups
- Assessment and Evaluation

Moving to operations by 2014



- Tuning with:
 - INSPIRE Directive compliance
 - MSFD implementation coupling to WISE Marine
 - GMES interaction
 - Research projects interaction
- Governance structure for operation of EMODNet as system of systems interaction EU and Member States
- Interconnecting of observation systems and analysing which data are structurally missing and should be provided to support user applications in an optimal way – laying the foundation for a European Ocean Observing System
- More interaction and synergy with private industry, e.g. wind farms, offshore industry
- International tuning and cooperation



http://www.emodnet-hydrography.eu http://www.emodnet-chemistry.eu http://www.emodnet-physics.eu http://bio.emodnet.eu http://www.emodnet-geology.eu http://jncc.defra.gov.uk/page-5040