

State-of-the-art and incorporation into an European observational network

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DG Research and Innovation: Marine Research Infrastructure (MRI) expert group: Proposal for a European integrated Ocean Observing System (IOOS)

DG MARE: EMODNET- European Marine Observation and Data Network, MODEG as expert group; current activities are development of data portals for e.g. biology, geology, physics coastal waters, chemistry, human activities, bathymetry, (fisheries by JRCs), coastal data by Eurostat (tourism)

Contribution of DG MARE : Marine Knowledge 2020- Marine data and observation for smart and sustainable growth

European Observational Network: EOOS (1)

What for?

- Socio-economic needs such as marine spatial planning, ICZM, marine energy and food sectors, transport, exploitation resources, weather/climate forecasting,
- Good Environmental Status (GES), as required by the MSFD (marine Strategy Framework Directive), coastal environment, water quality,
- Ocean/climate interactions, adaptation to climate change
- Marine safety, security (extreme events, disasters)

European Observational Network: EOOS, (2)

EOOS will have three levels:

- 1. The acquisition of data (satellites, in-situ devices with adequate sensors) plus transmission to data centres**
- 2. The collection , storage and management of data through databases, national repositories**
- 3. The use of data through integrating platforms, models, applications to turn them into products for end-users**

European Observational Network: EOOS, (4)

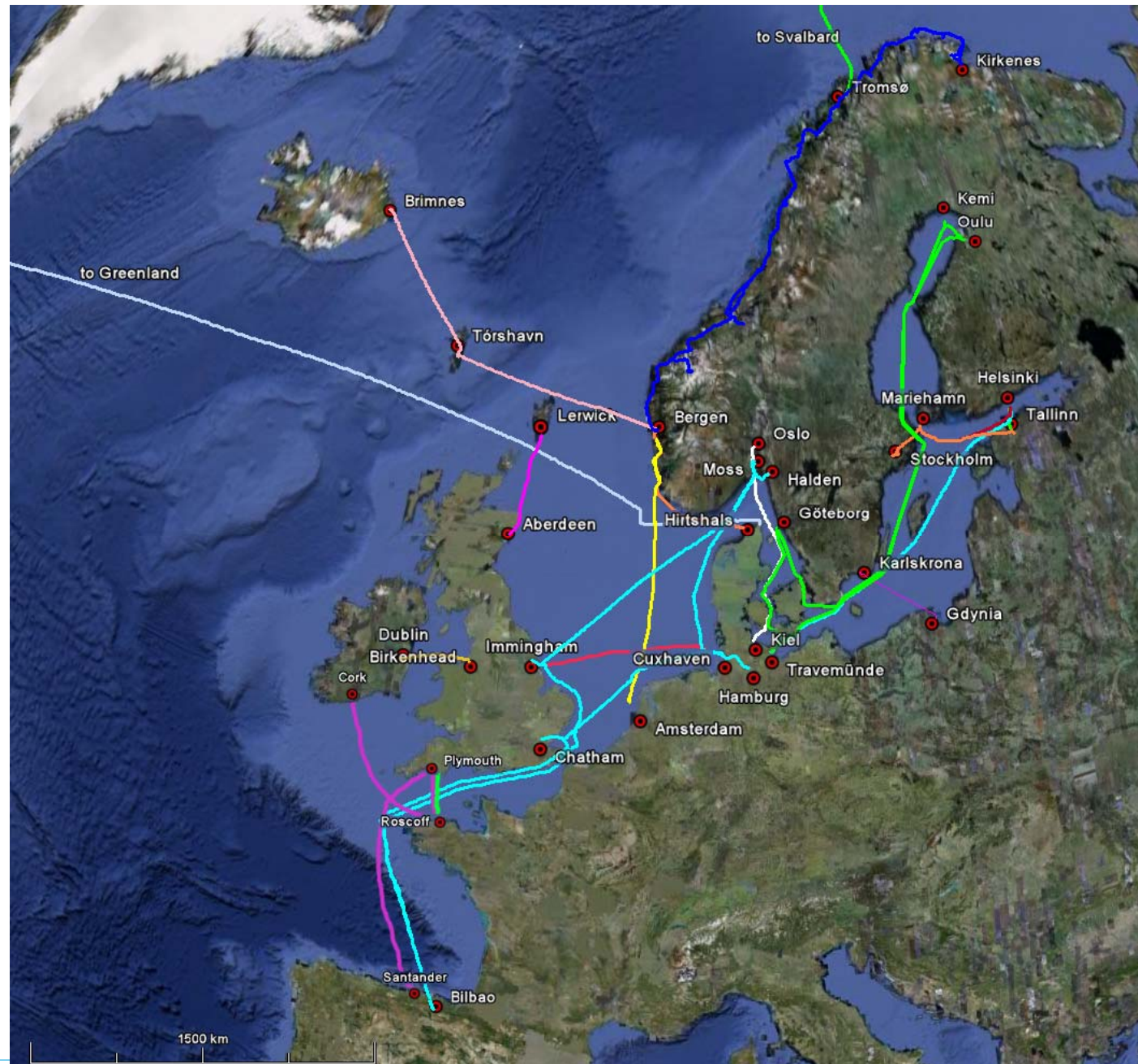
Existing initiatives for Data Collection and Management: (examples)

1. National Oceanographic Data Centres
2. European Register of Marine Species (MARBEF)
3. European Ocean Biographic Information System (EUR-OBIS)
4. SeaDataNet provides a platform with harmonised standards at EU Level for metadata, data, vocabularies, quality; Interoperability with Ocean Data Portal of IODE/IOC network;
5. EMODNET provides a platform based on SeaDataNet standards and tools to assemble a large collection of data and make them available for applications/end-users (different portals under construction)

- 1. State-of-the-art of FerryBox: sensors available, extensions, new developments**
- 2. Link to EU policy issues (MSFD)**
- 3. Statement of Marine Board (Ostend Declaration): “observational capacities in Europe should be strengthened”. Need for an operational oceanographic network, including FerryBoxes.**
- 4. JERICO: integration and harmonization of FerryBox measurements in Europe; how to incorporate other global initiatives (US, Asia, Australia) (presentation by Patrick Farcy)**

- 1. Incorporation of FerryBox as an integrated instrument into national monitoring programmes: e.g. Norway, Scotland, UK, Finland**
- 2. Show reliability and usefulness of FerryBox on a European Level**
- 3. “observational capacities in Europe should be strengthened”.
Need for an operational oceanographic network, including FerryBoxes.**
- 4. Further scientific (research oriented) developments of FB systems**
- 5. Project of EMODNET for an integrated monitoring case in the North Sea (Projected)**

Ferrybox Routes in Europe (status of 2011)





FerryBox Community in Europe: www.ferrybox.org

> Home > FerryBox Institutions

Main European Institutions Developing, Operating or Applying FerryBox Systems

Click on the flags for weblinks

- Why a FerryBox (FB)?
- Objectives
- Ferry Box Principle
- Ship Routes
- FerryBox Institutions
- FB Online Data
- FB Applications
- EU-Project "FerryBox"
- FB Future Perspectives
- Other FB Links
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Ferry Lines

