

EMODnet
European Marine
Observation and
Data Network

EMODnet Chemistry products and tools relevant for MSFD

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2nd EMODnet-MSFD Coordination Meeting
27 February 2015, DG MARE, Brussels

Data harvesting and products generation are organized at Regional level

EMODnet Chemistry spatial distribution

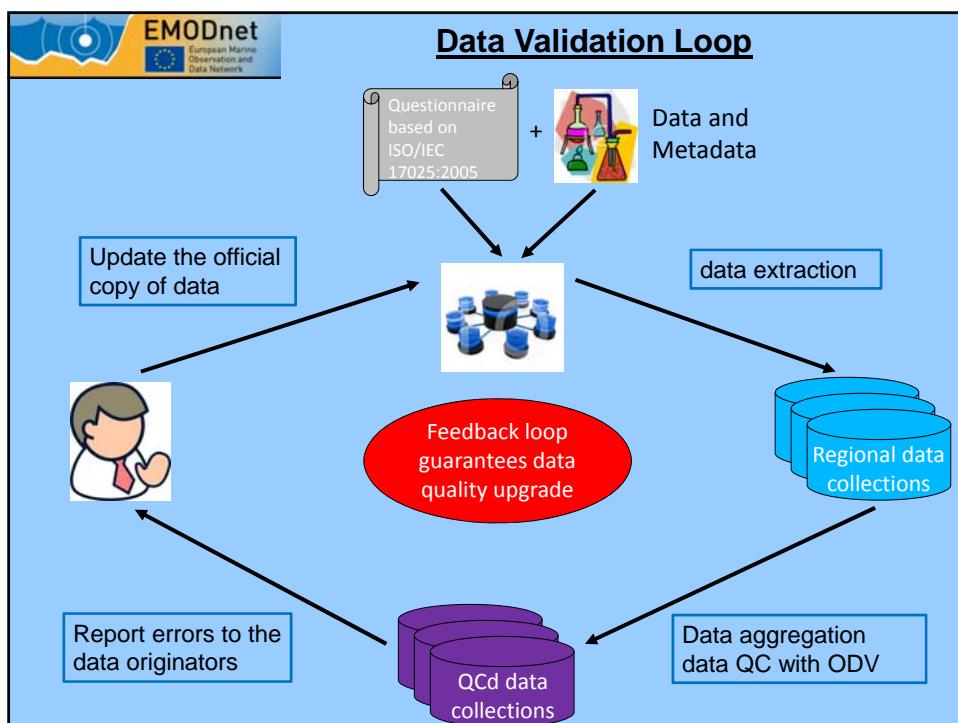
Sea regions	Greater North Sea - Cet - Sea - Norwegian Sea	Baltic Sea	Iberian peninsula - Macaronesia	Mediterranean Sea	Black Sea - Sea of Azov
Acidity	■	■	■	■	■
Antifoulants	■	■	■	■	■
Chlorophyll	■	■	■	■	■
Fertilisers	■	■	■	■	■
Hydrocarbons	■	■	■	■	■
Heavy metals	■	■	■	■	■
Organic matter	■	■	■	■	■
Pesticides and biocides	■	■	■	■	■
Pharmaceuticals					
Radionuclides	■	■	■	■	■
Silicates	■	■	■	■	■

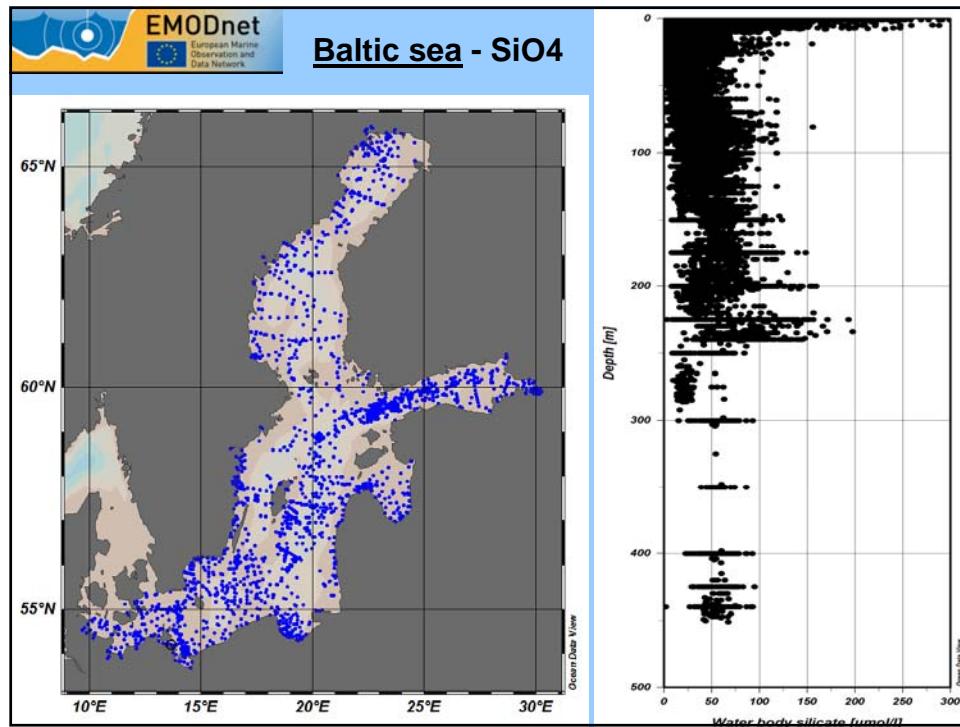
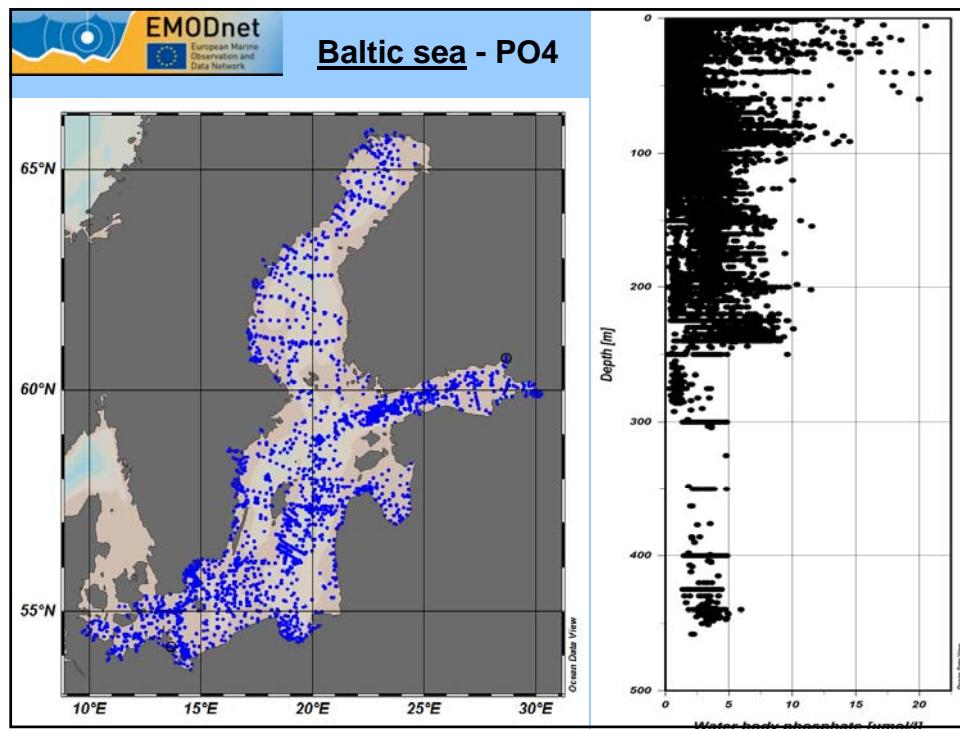
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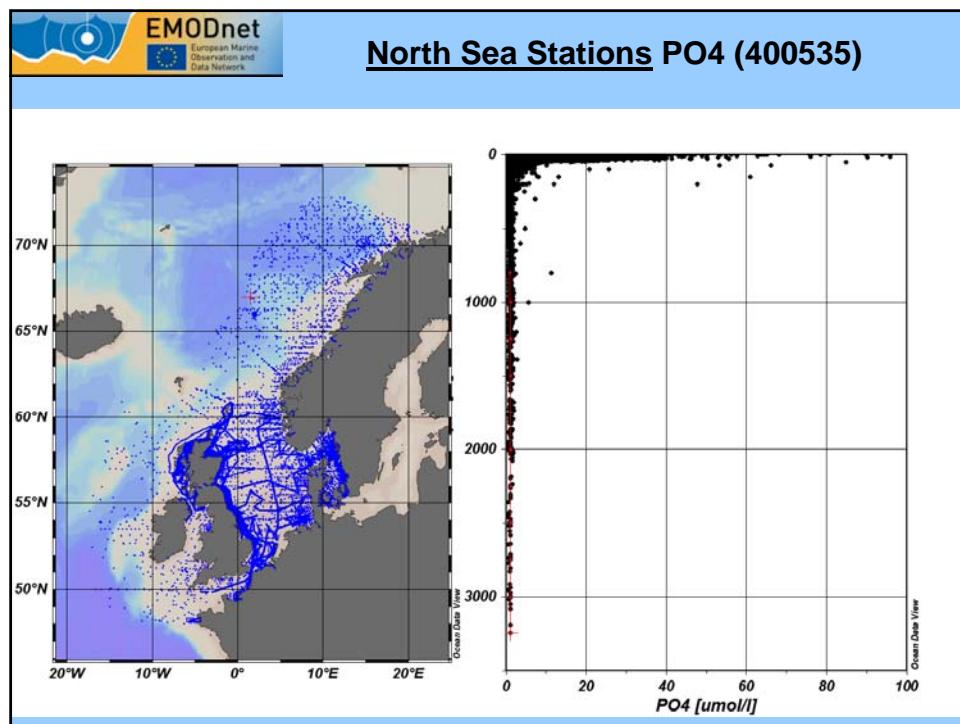
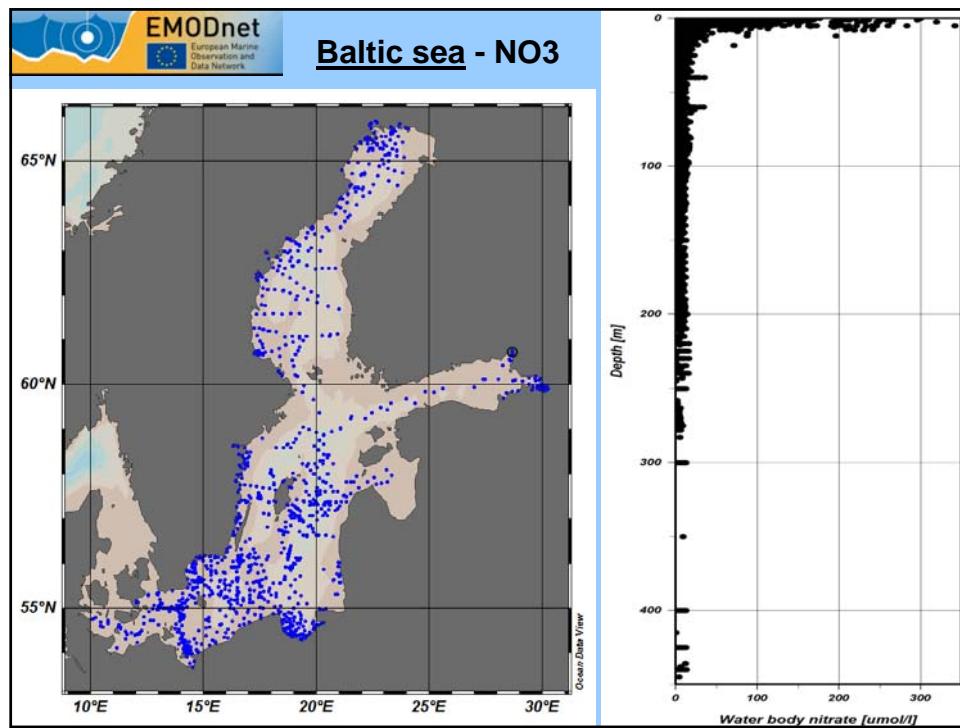
Parameters and matrices

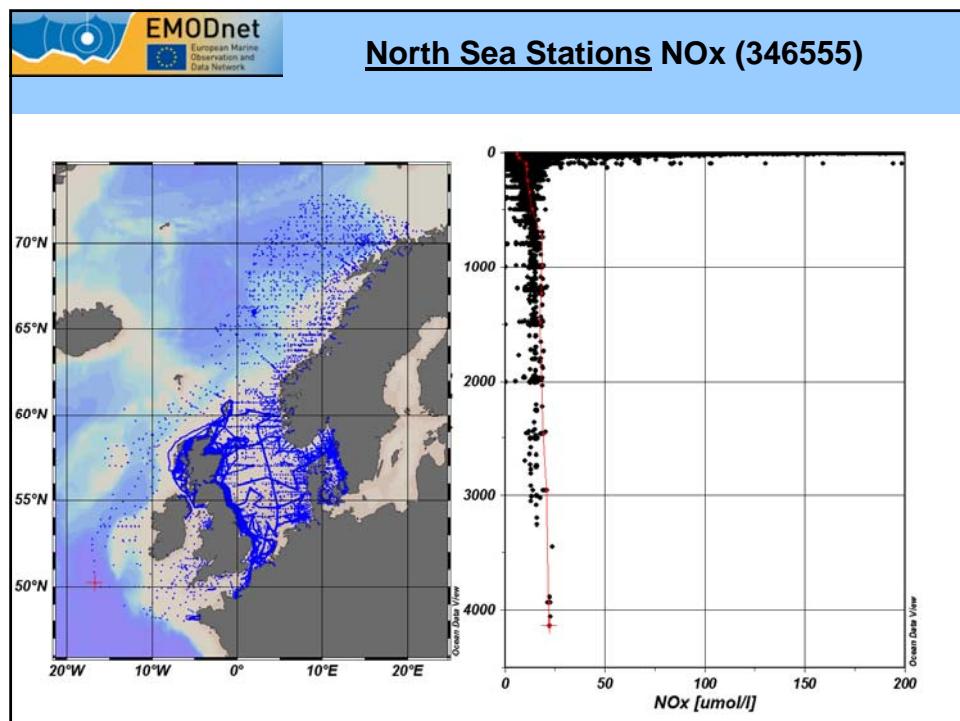
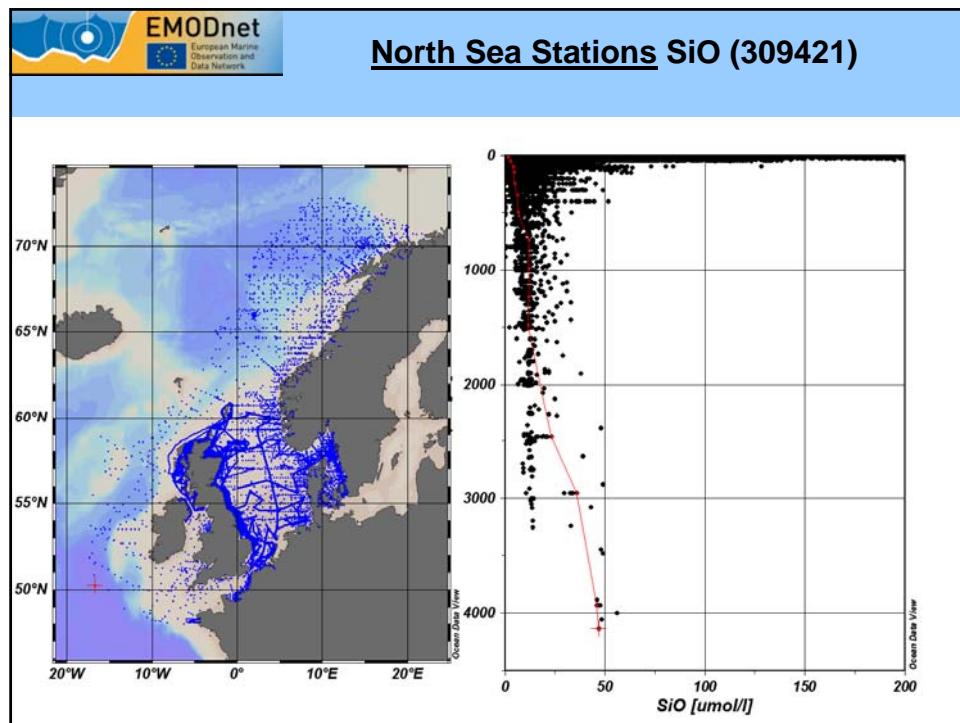
Data are provided for 3 matrices: water column, sediment, biota

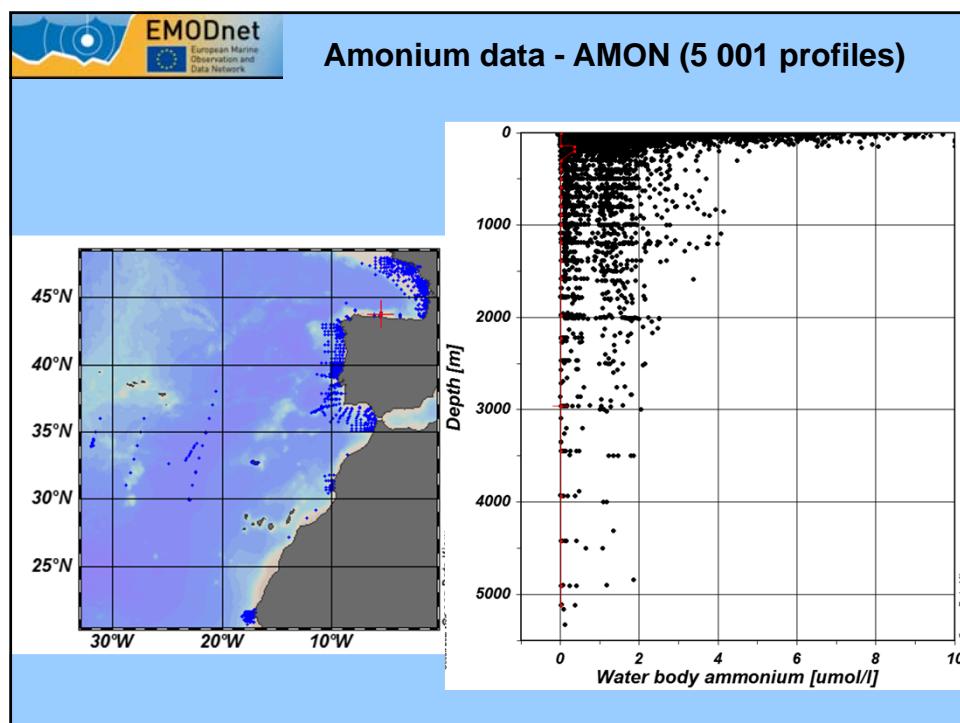
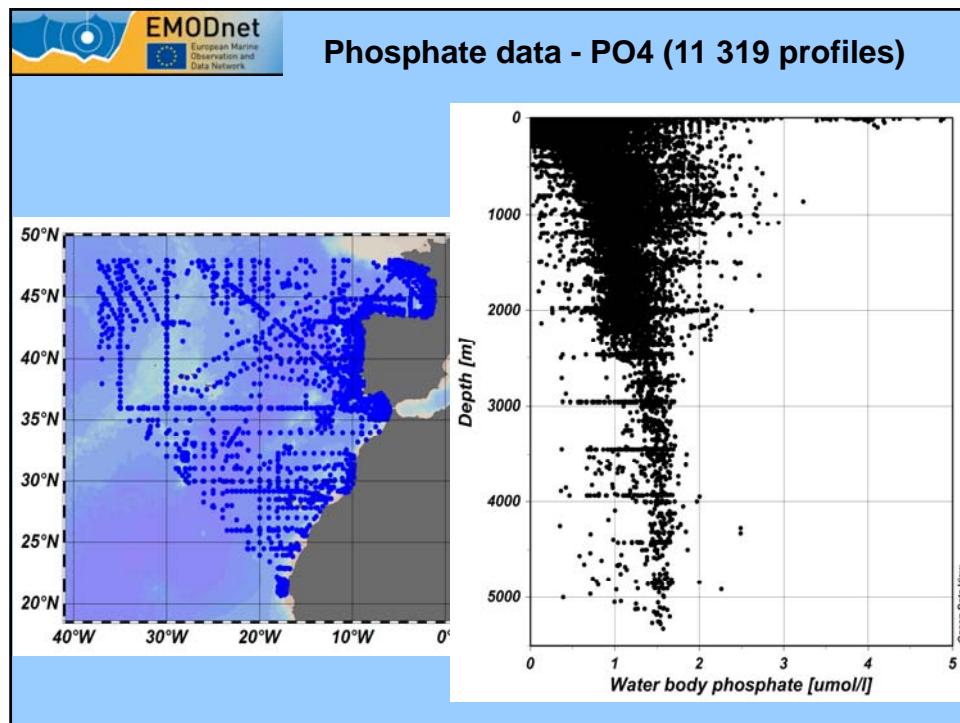
Group of Variables	Greater North Sea - Celtic Sea - Norwegian Sea	Baltic Sea	Iberian peninsula - Macaronesia	Mediterranean Sea	Black Sea - Sea of Azov
Acidity	■	■	■	■	■
Antifoulants	■	■		■	
Chlorophyll	■	■	■	■	■
Fertilisers	■	■	■	■	■
Hydrocarbons	■	■	■	■	■
Heavy metals	■	■	■	■	■
Organic matter	■	■	■	■	■
Pesticides and biocides	■	■	■	■	■
Pharmaceuticals					
Radionuclides	■	■		■	■
Silicates	■	■	■	■	■

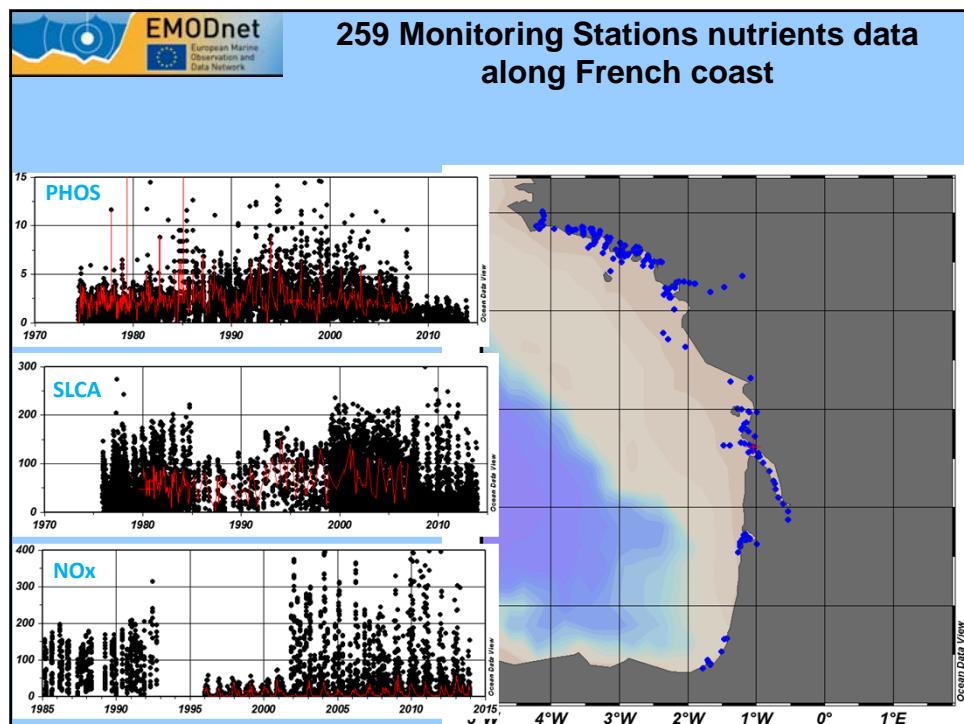
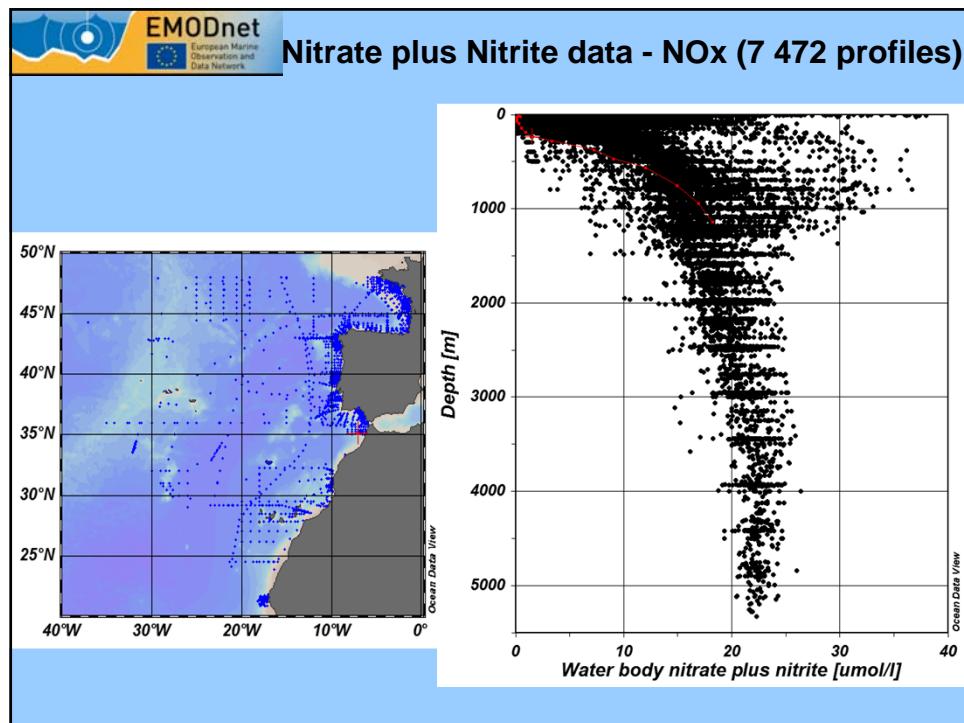


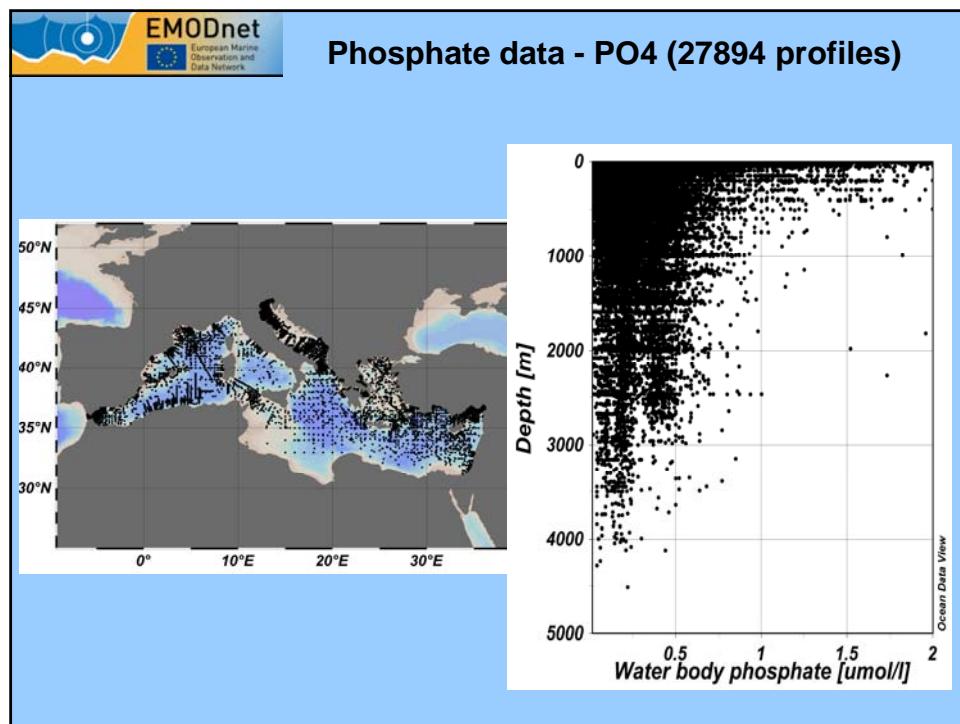
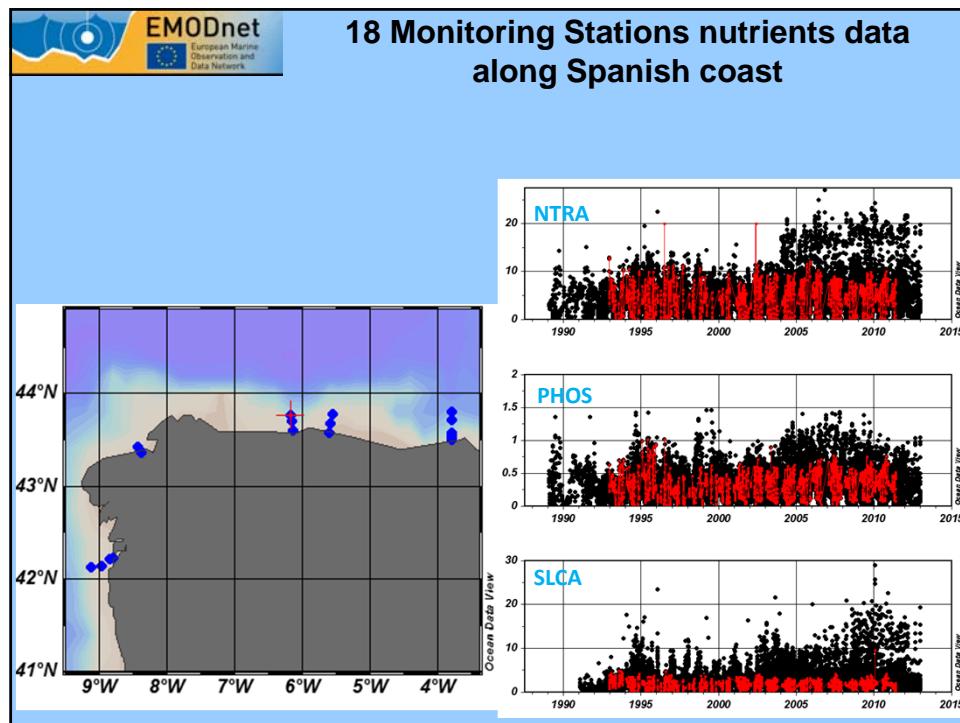


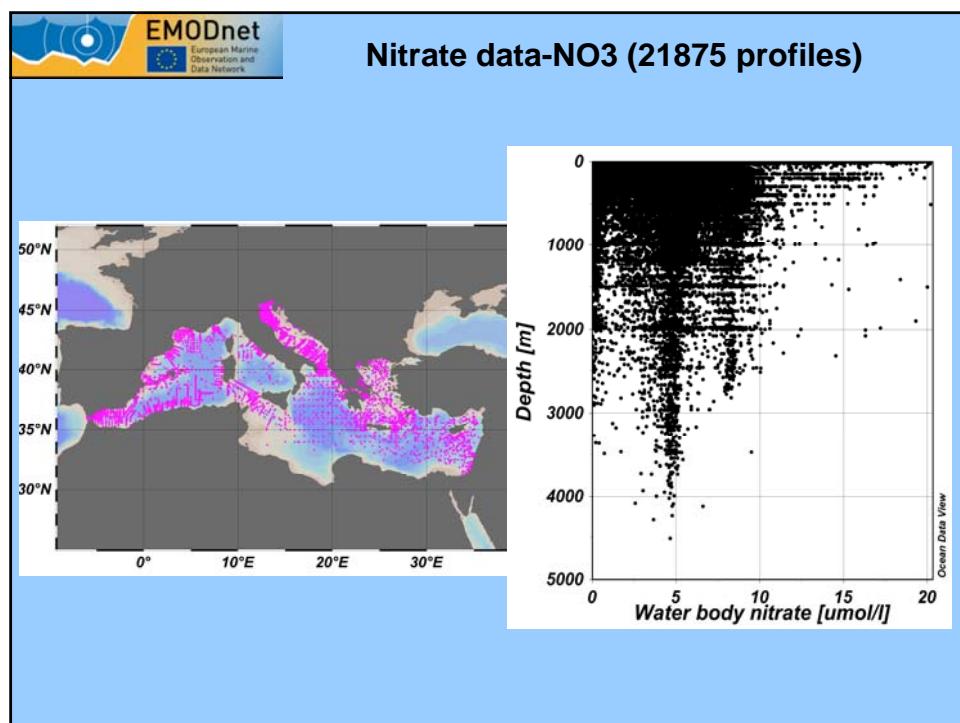
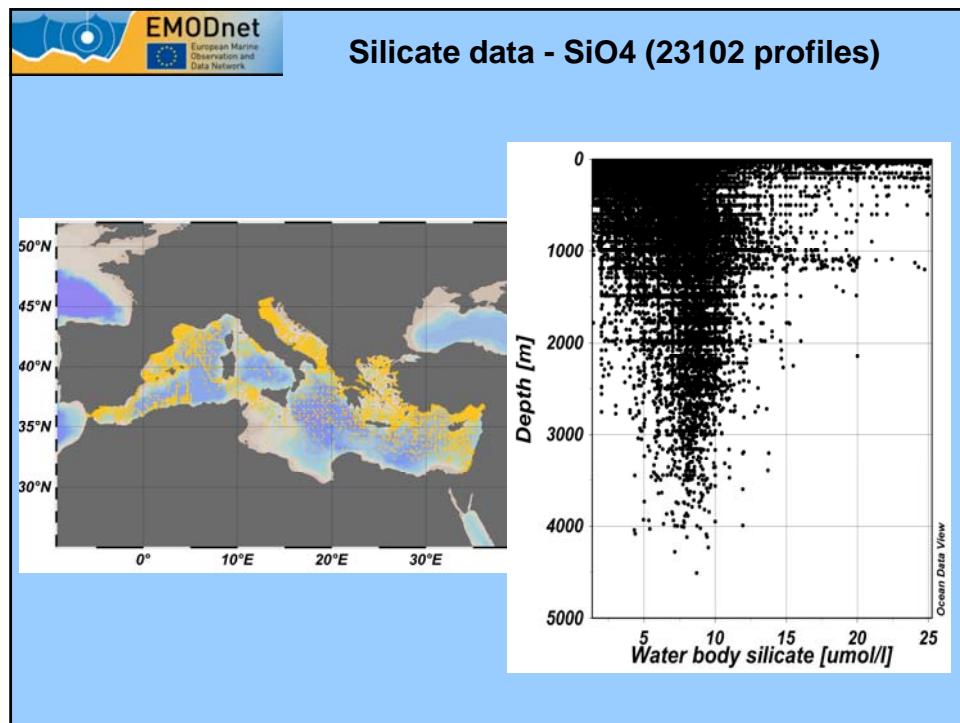


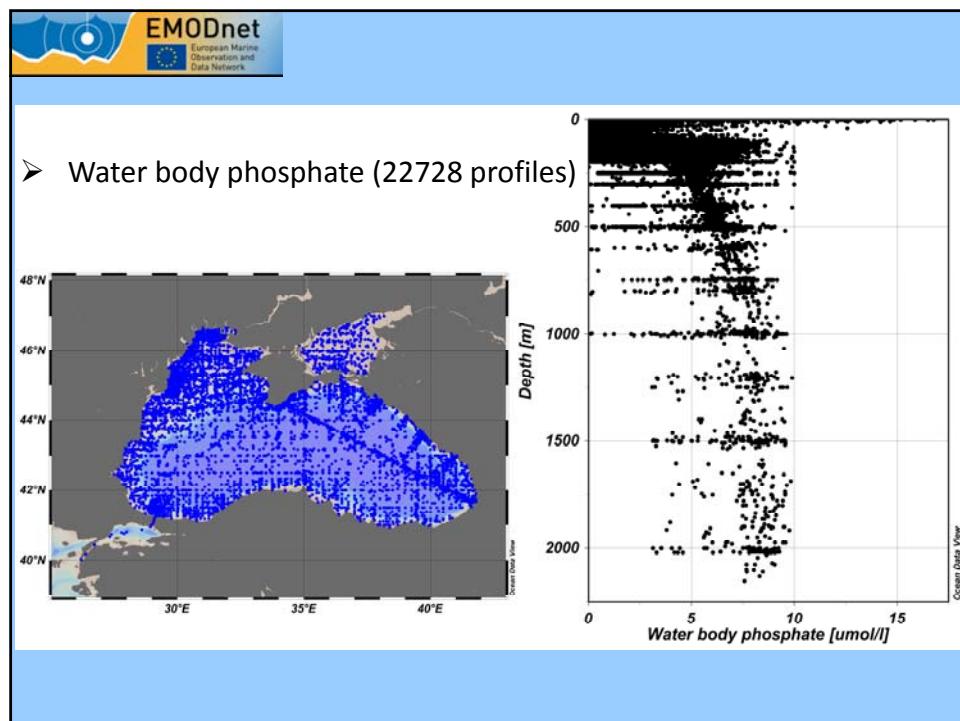
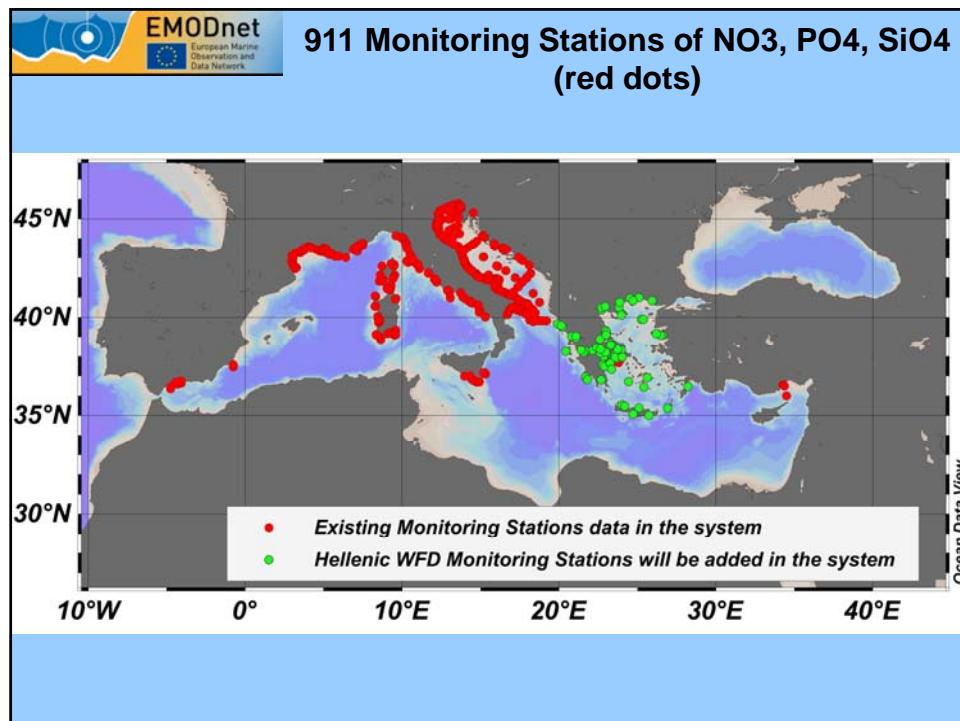


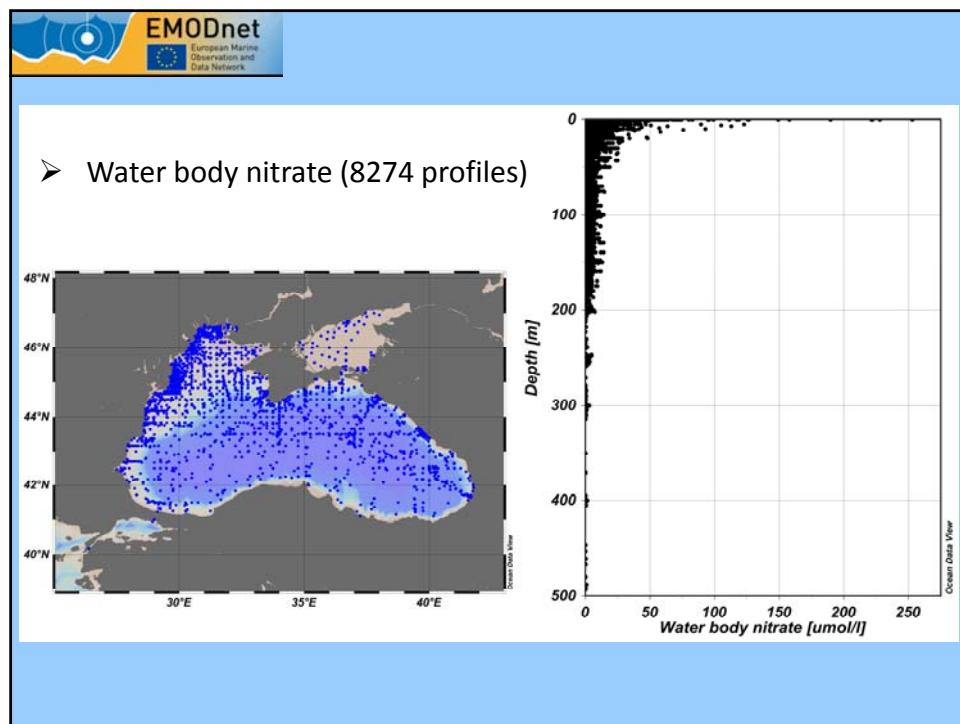
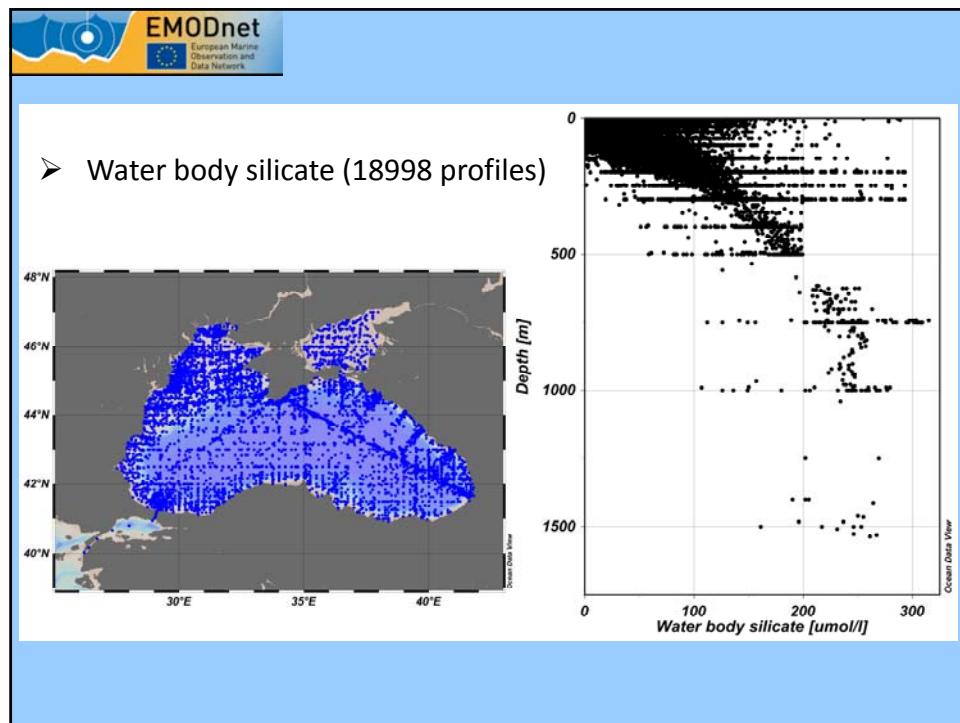


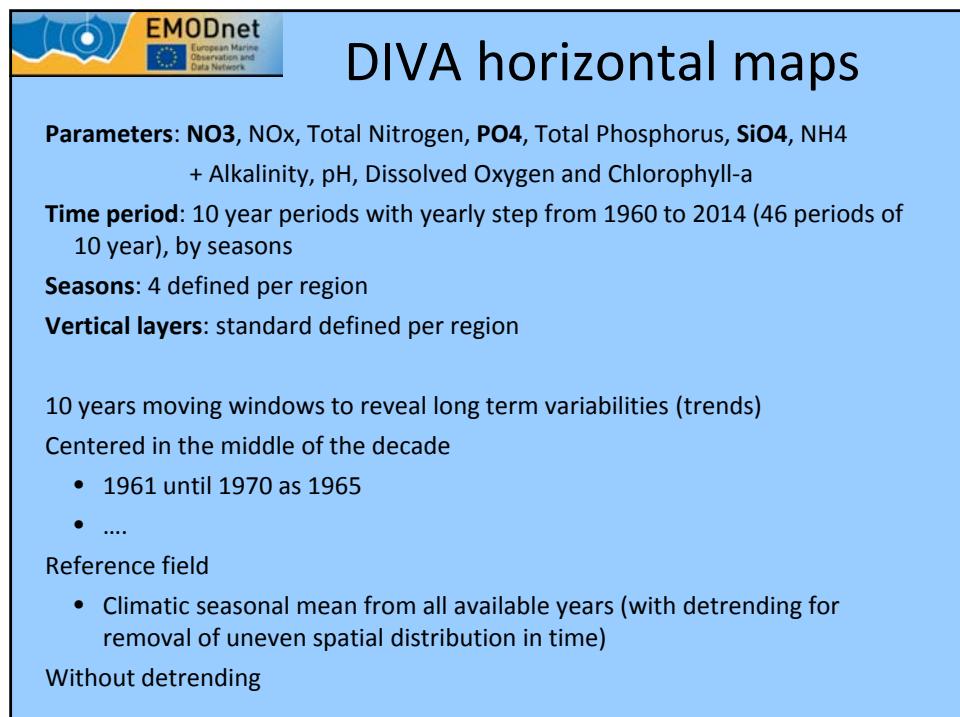
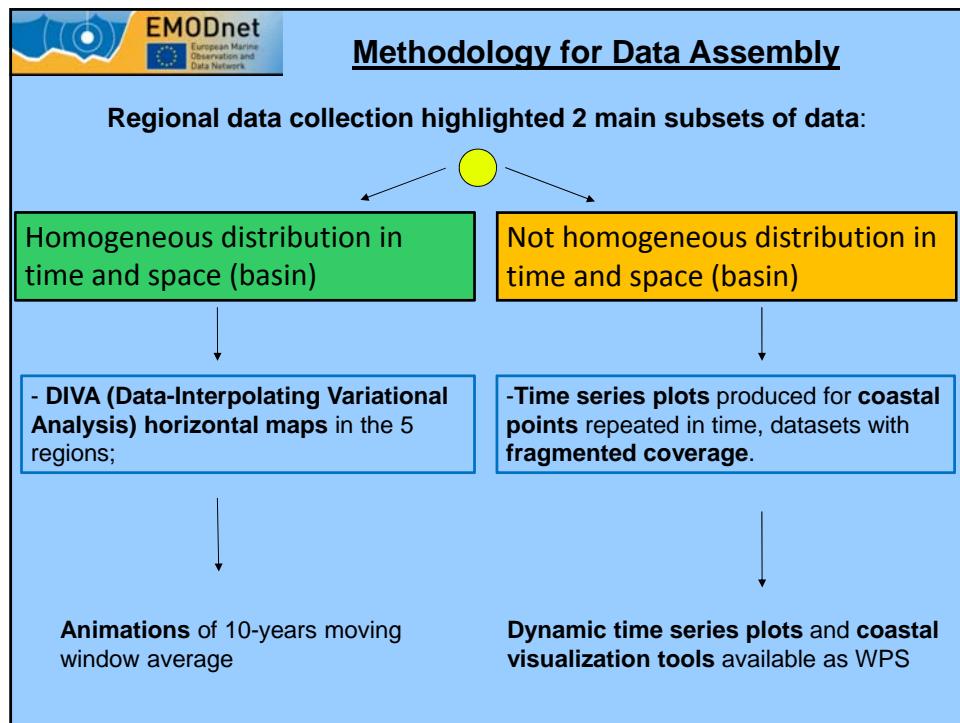


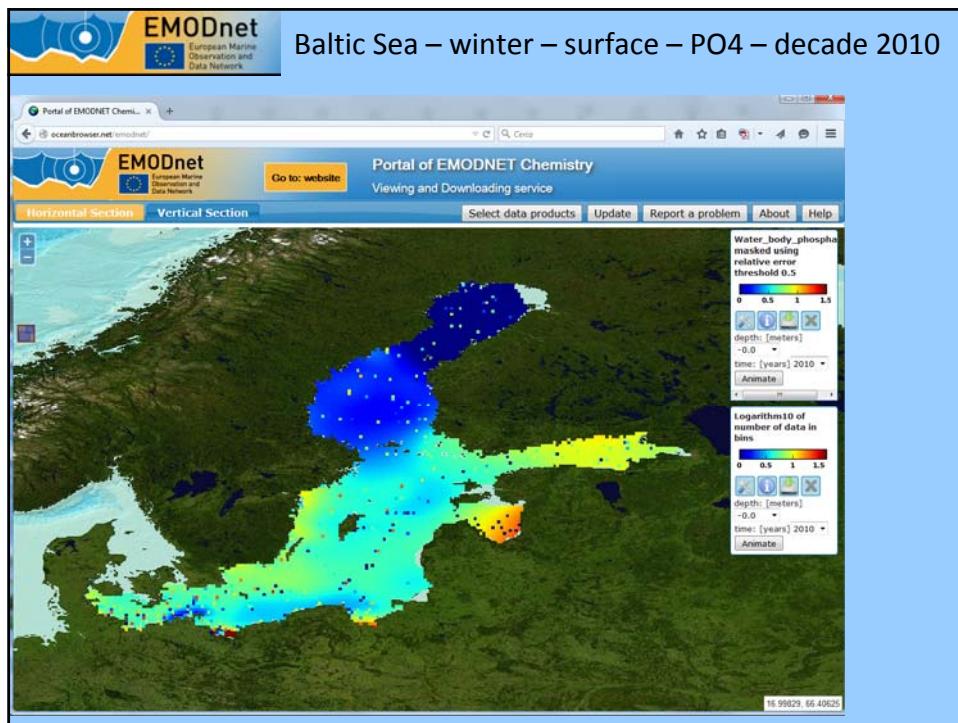












Dynamic plots

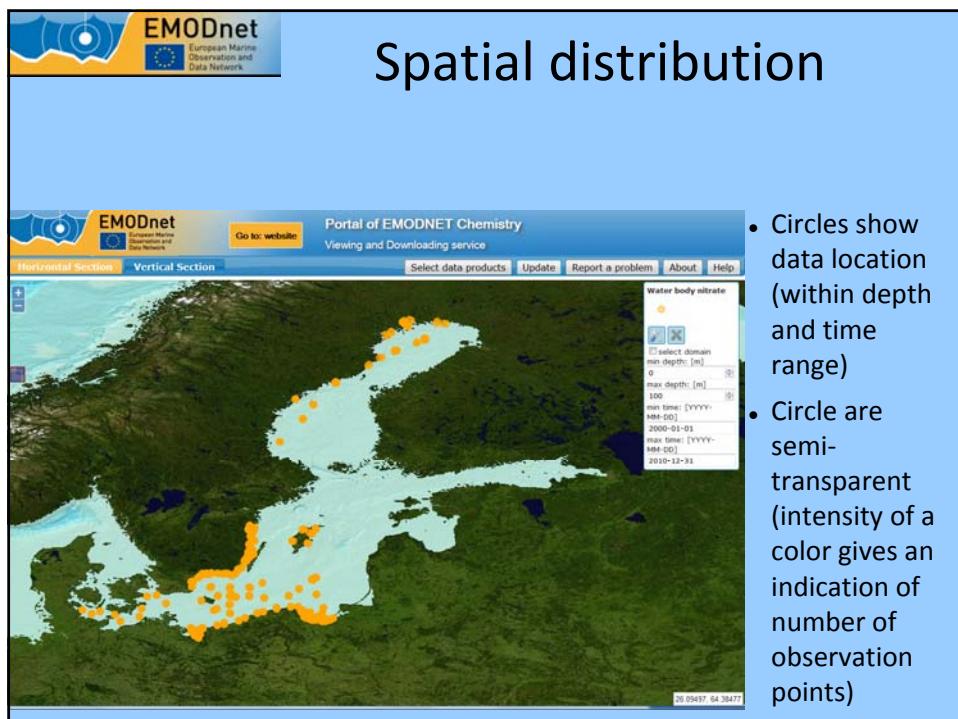
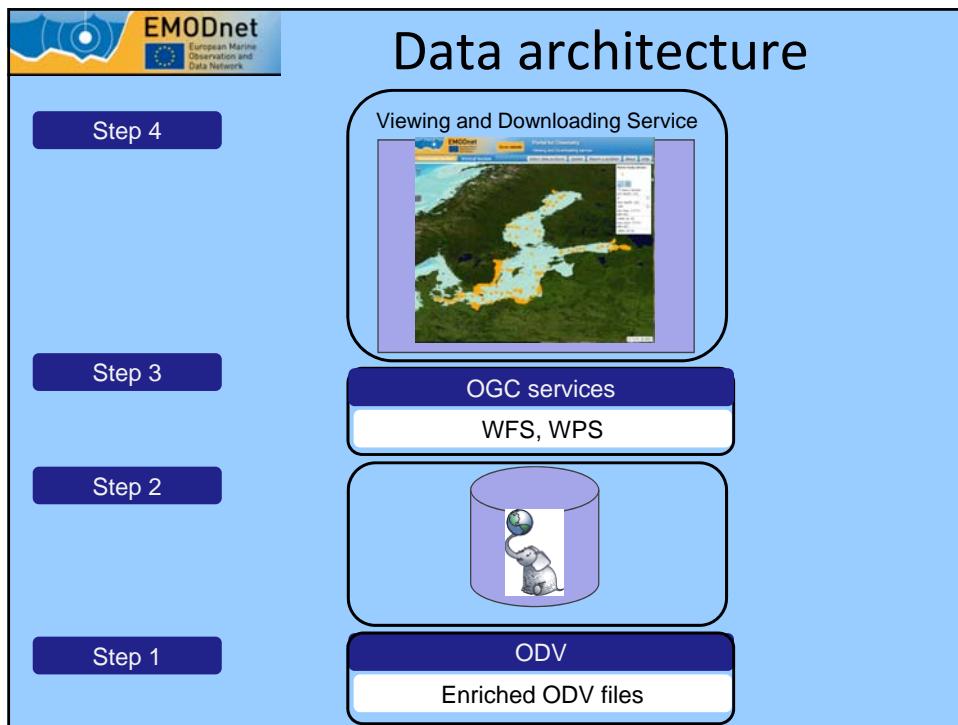
Parameters: NO₃, NO_x, Total Nitrogen, PO₄, Total Phosphorus, SiO₄, NH₄
+ Alkalinity, pH, Dissolved Oxygen and Chlorophyll-a

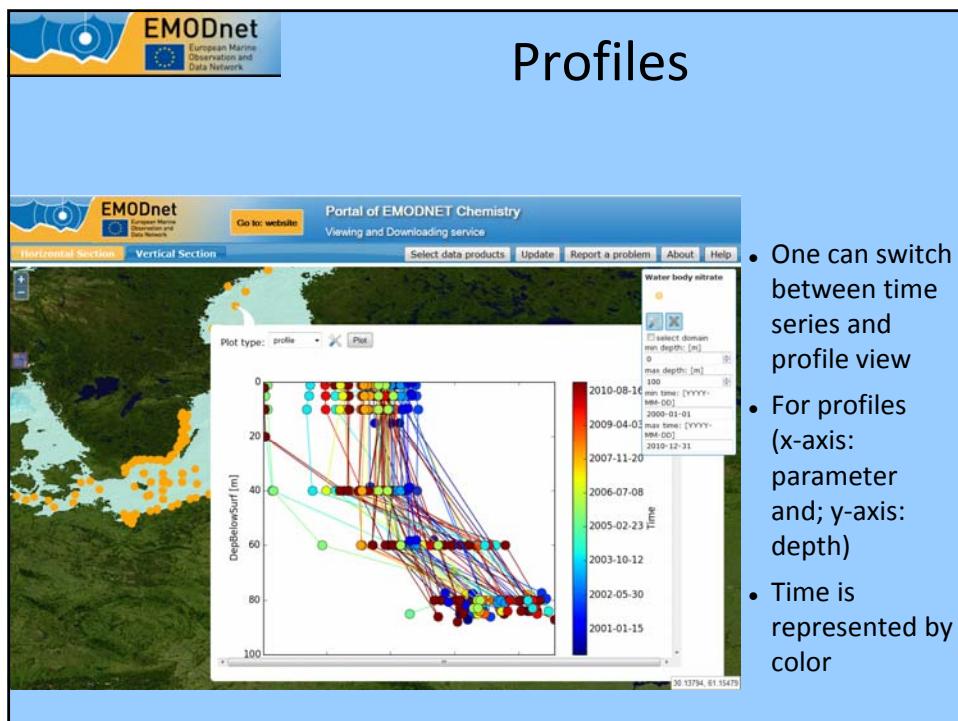
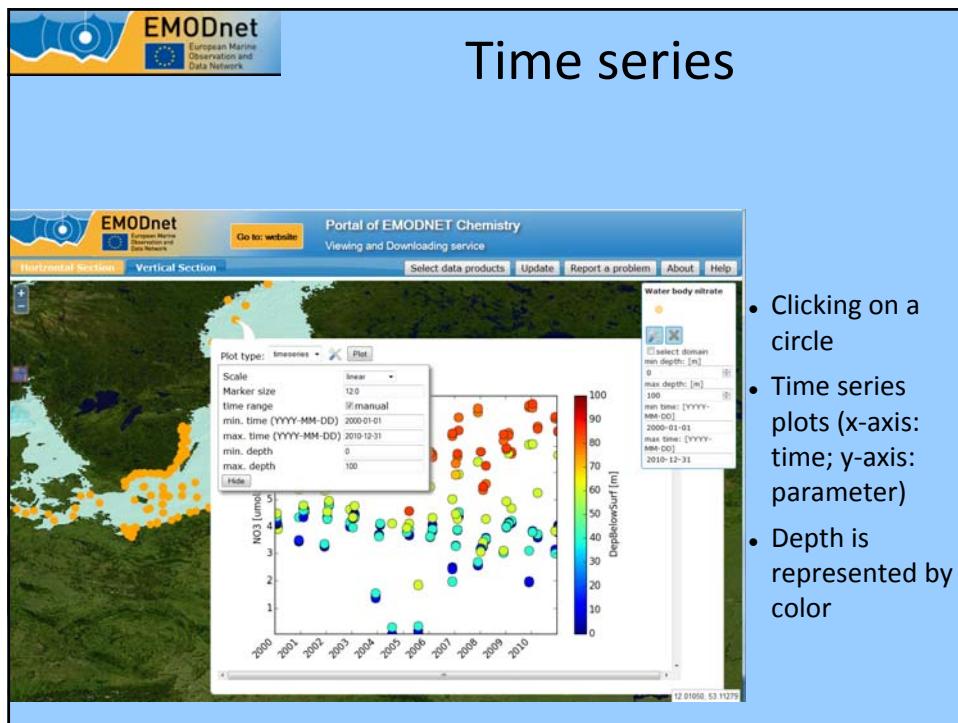
Time period: defined by the user (default is 2000-2001)

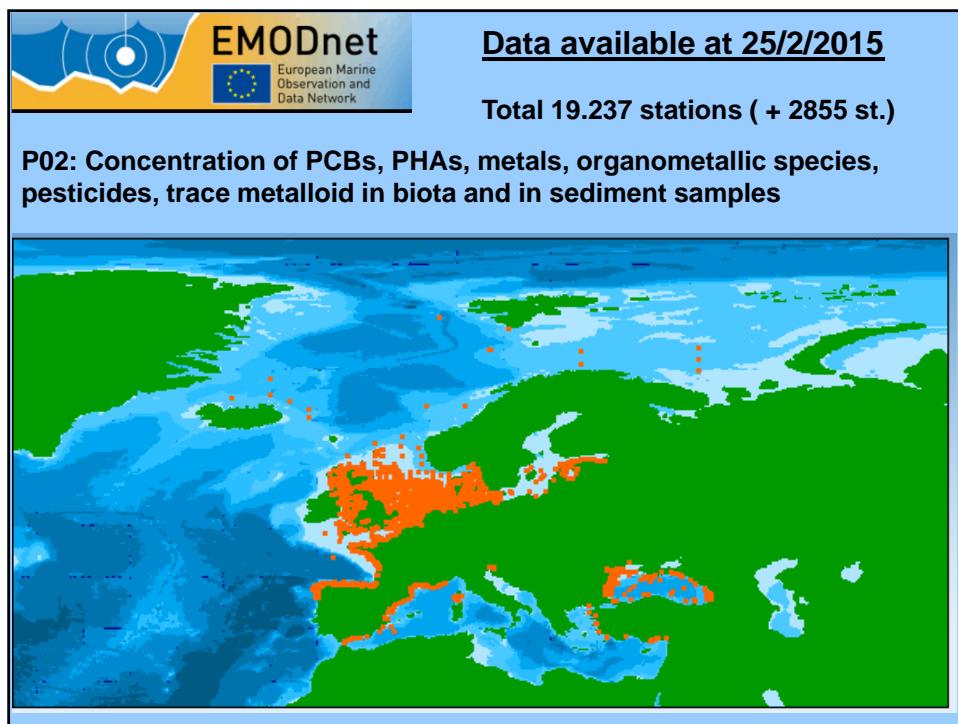
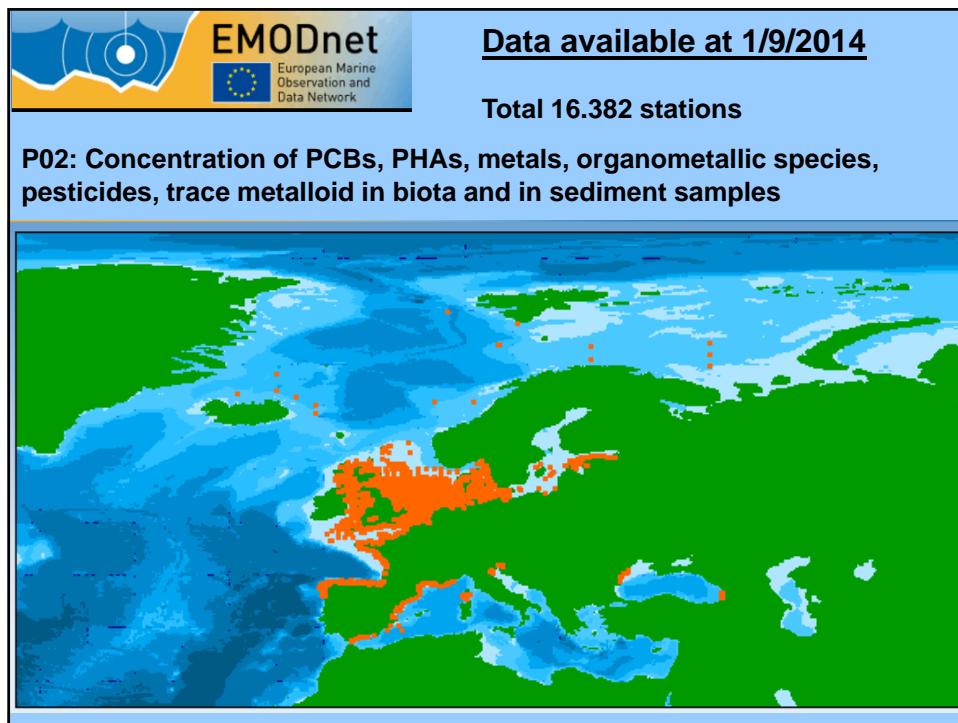
Vertical layers: defined by the user (default is 0-10m)

Selecting a parameter you get dynamically (WFS, WPS OGC services):

- Spatial distributions
- Time series plots
- Vertical profiles









Future planning

2015:

- Complete **DIVA maps** for nutrients and silicates with 10-year moving window, seasons, vertical layers
- Optimisation of **performances** for dynamic plots with data from 5 regions
- Start regional data collections for **contaminants**, including the data validation loop
- Expert workshop, 21.10.2015, Oostende (as part of EMODnet Jamboree)

2016:

- Compute **DIVA maps** for dissolved oxygen, acidity and chlorophyll with 10-year moving window, seasons, vertical layers
- Depending on the data distribution, local/coastal horizontal maps of **contaminants** in the sediments