

Thermae Palace (Oostende, Belgium, 12-13 October 2010)

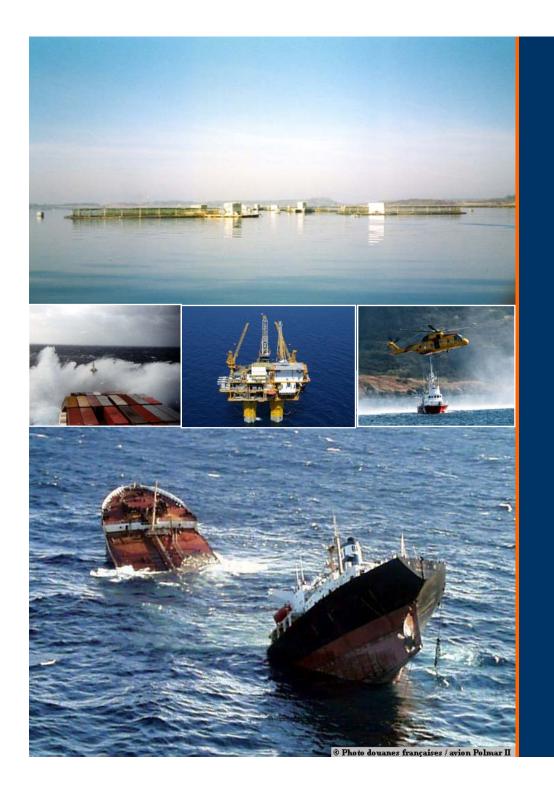
Monitoring the Oceans

Essential Knowledge for a Sustainable Maritime Economy



Pierre BAHUREL
Mercator Ocean, France

11 October 2010, European Parliament, Brussels



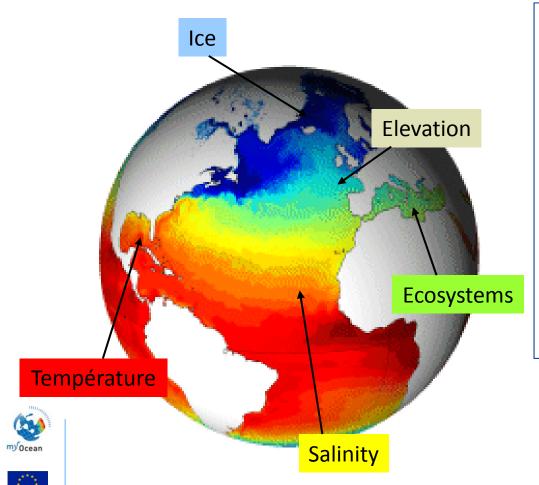
[1] Need

Europe
needs
« Ocean
Monitoring »



Ocean Monitoring

Marine Core Service



- n Currents,
- n Temperature,
- n Salinity,
- n Sea Level,
- n Ice,
- n Ecosystems
- n Anywhere
- n At any time
- n Real time, long period

A 3D and dynamic vision of the ocean





Different areas, different purposes and a common need

Marine Core Service

- A worldwide
 European maritime
 economy with
 multiple faces
- European Integrated Maritime Policy
- European Member States responsibilities

 Competitiveness of European actors in the world economy







MARINE RESSOURCES



MARINE OPERATIONS



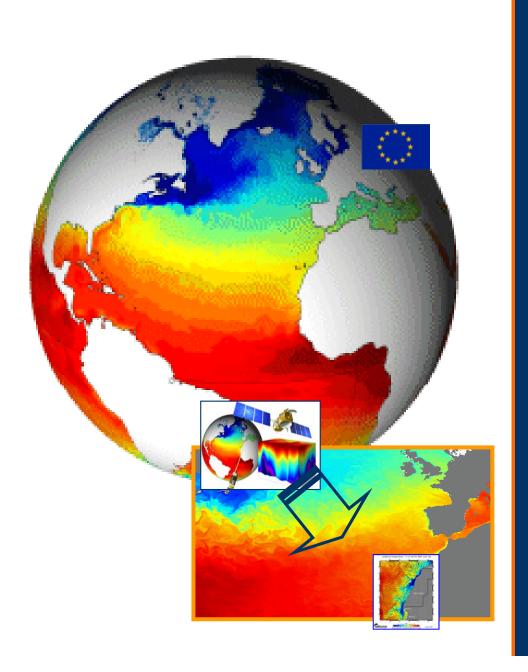
CLIMATE & WEATHER FORECASTING









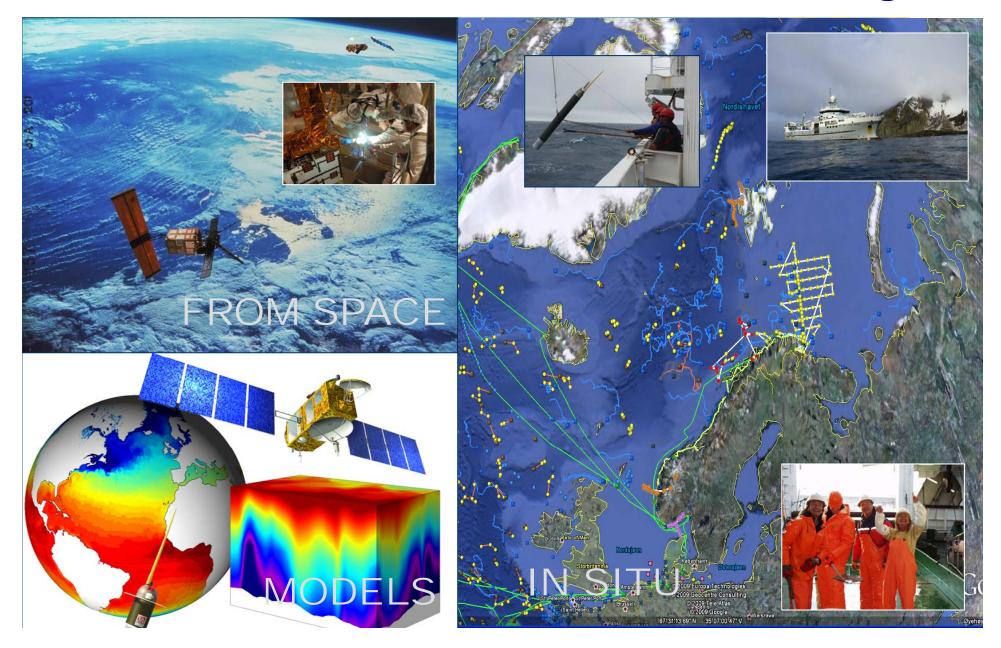


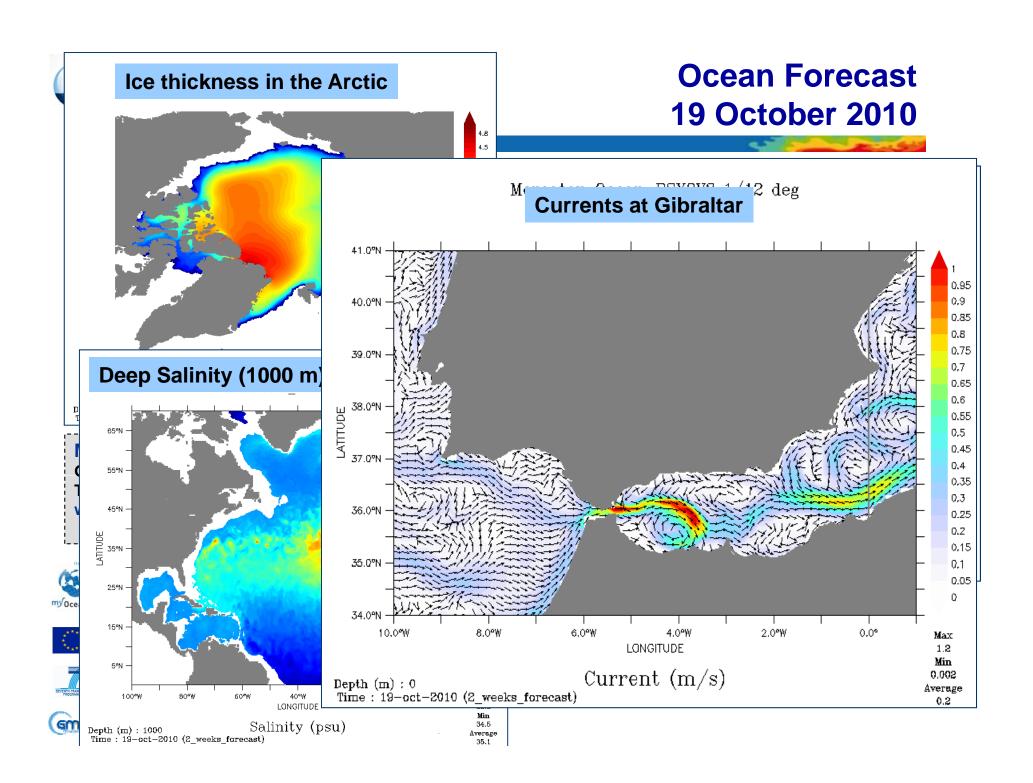
[2] Solution

Europe has developed world-leading solutions in ocean monitoring



Ocean Monitoring











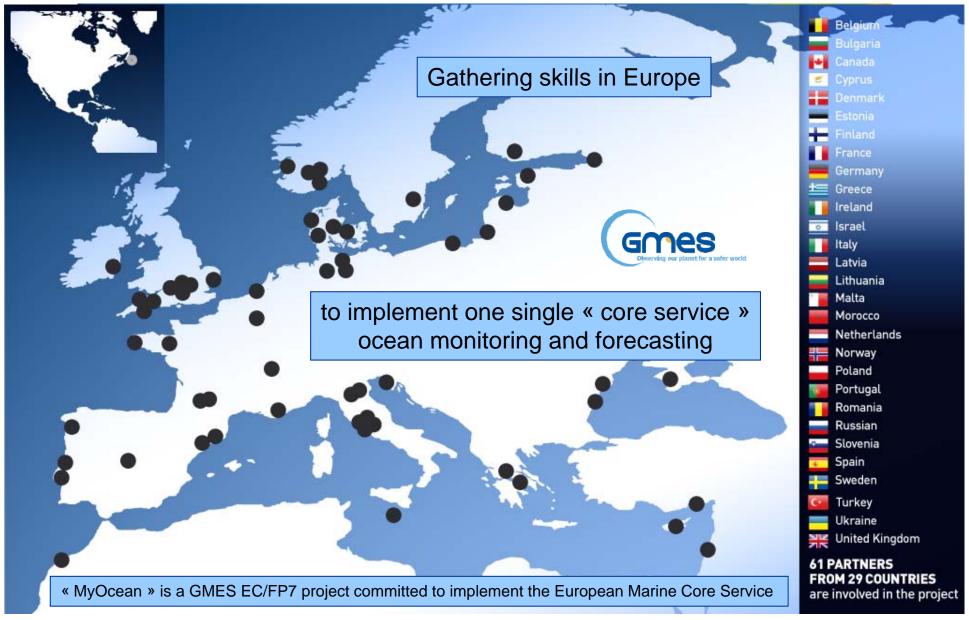


[3] Action!

An integrated approach, Europe is setting up its « Marine Core Service »



Gathering skills in Europe to implement an *integrated* Marine Core Service





A first implementation of a European Marine Core Service : first feedback

Marine Core Service



Ocean monitoring information made available thanks to a European integrated approach: first 6-month feedback

- n A single access point: www.myocean.eu
- An open and free data access, according to GMES approach
- n A service desk with a growing number of users
- n A 3-year demonstration phase
- n A sustainability to organize through the EU GMES program



MARINE OPERATIONS

31 %

MARINE AND COASTAL ENVIRONMENT

27 %

MARINE RESSOURCES

13 %

CLIMATE &
WEATHER FORECASTING

29 %







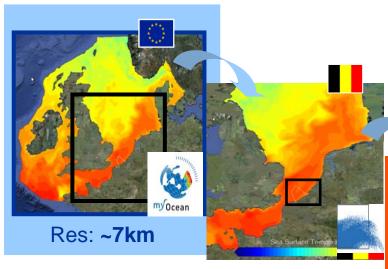
[4] Value

A European Marine Core Service bringing value to Member States



From Global to Local: an example **MUMM** study for the port of Zeebrugge

Marine Core Service



MUMM is downscaling European MyOcean information to improve regional, national and local models

MUMM

North Sea Monitoring Brussels, Belgium

www.mumm.ac.be

Courtesy: S.Legrand

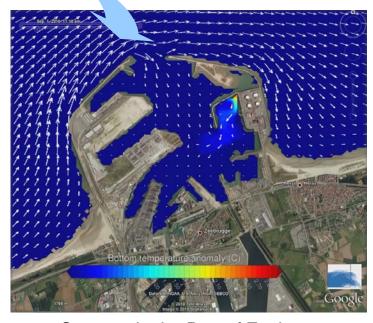
Res: ~5km

Res: **500 m**





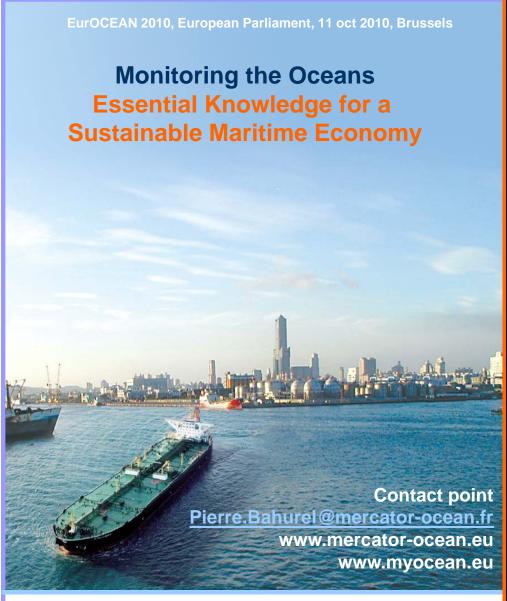




Currents in the Port of Zeebrugge







Thermae Palace (Oostende, Belgium, 12-13 October 2010)

Conclusion

- Operational oceanography is needed
- European leadership is established
- n GMES Marine Core Service is under implementation and already delivers
- European countries will benefit from its economy of scale
- Development of public and private downstream services should be fostered