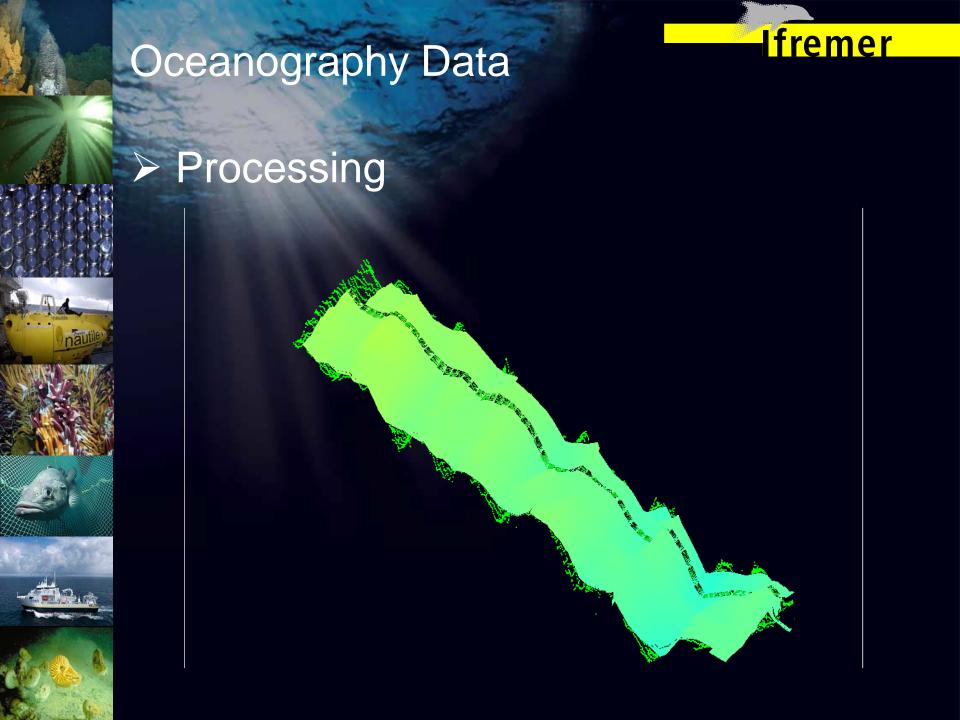
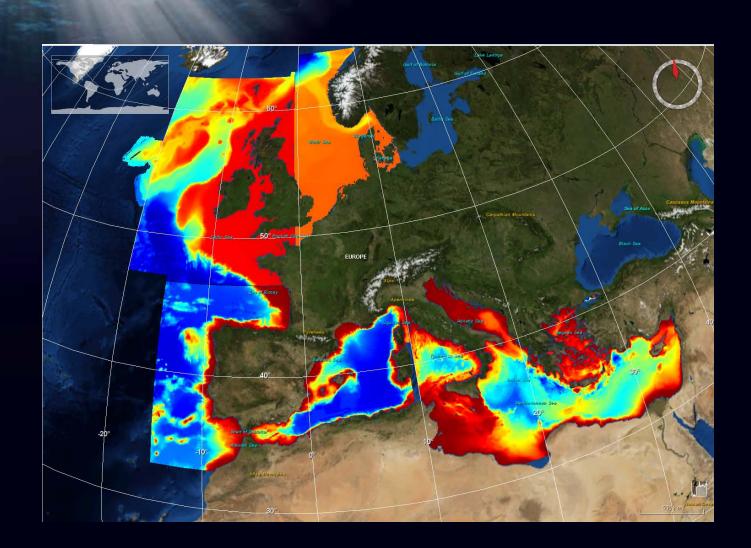
GLOBE Software

Global Oceanography and Bathymetry Explorer

GEBCO meeting – Monaco – SC Day - 2012

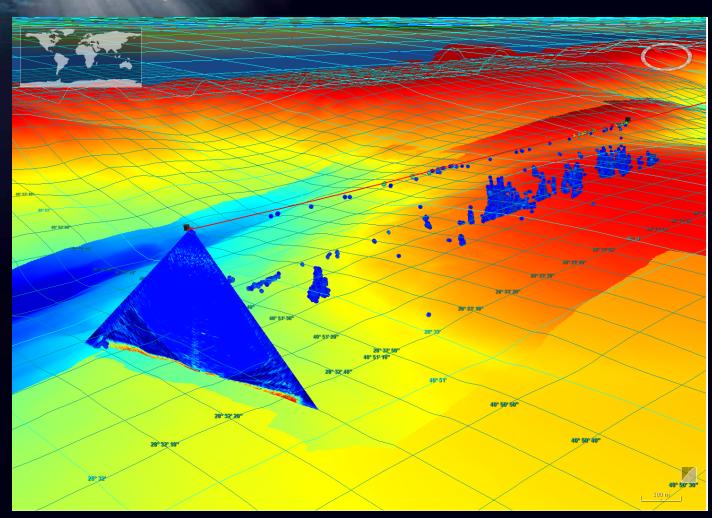


Oceanography Data



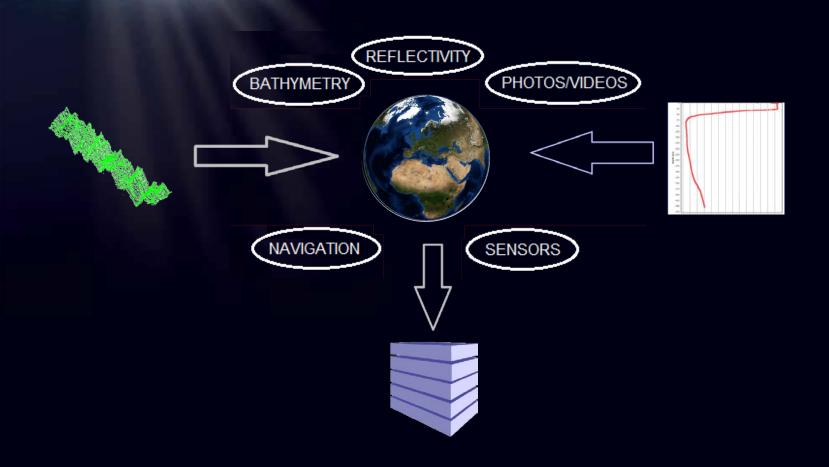
Oceanography Data

>3D display



Software design

independant modules



Ifremer's experience

- CARAIBES
- SONARSCOPE
- 3 D VIEWER
- ADELIE

Merging all knowledge and experience

→ based on scientists demands



Collaboration



Towards an Alliance of European Research Fleets









- 3 D OpenGL
- NASA WORLD WIND
- Portability Windows, Linux, MacOS

Getting GLOBE



- Processing tools : under commercial licence



First users:

- Hydrography
- Geology
- EU data networks : Geo-Seas, Emodnet hydrography
- Fleet operators



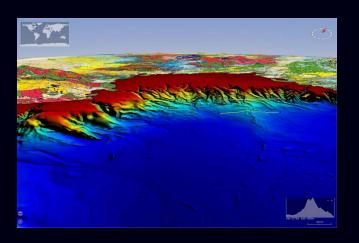
EU data networks



an EU initiative part of the Framework Research Infrastructure Program (FP7) from 26 datacentres in 17 European countries (http://www.geo-seas.eu/)

a joint e-infrastructure for an on-line delivery of harmonised marine geoscience and oceanographic data from across Europe by adopting and adaptating the architecture and technologies developped by the SeaDataNet network

Visualisation tools and services allowing virtual browsing and viewing of distributed data sets including seismic surveys, lithological logs and Digital Terrain Model (Geo-Seas 3D viewer)



Geo-Seas International WS, University College Cork, Ireland, 9-10 octobre 2012

Ifremer

EU data networks



EMODNET hydrography is one of the preparatory actions of the European Marine and Observation Data Network which aims to provide data and indicators required by the Marine Strategy Framework Directive (http://www.emodnet-hydrography.eu/)

in 2012, the **EMODNET hydrography** portal provides overview and access to more than 8400 bathymetric datasets (DS) managed by 14 data centres from 9 countries and 118 institutes

➤ these DS have been used for generating the EMODNET Digital Terrain Model (DTM) at ¼ minute of latitude &longitude

the Hydrography services gives wide functionality for downloading and viewing:

- √ water depths
- ✓ QC param. of individual cell including references to data sources
- ✓ option to download DTM in different formats
- ✓ the NetCDF (CF) files are fit for use in the Geo-Seas 3D viewer
- ✓ can ingest WMS overlay maps





What is available now?

Version 1.0

Bathymetry
3 D Viewer

Soon:

Version 1.2

MBES Calibration,
Statistics, Reflectivity,
Water Column

Very soon: the demo!