

GLOBE Software

Global Oceanography and Bathymetry Explorer

GEBCO meeting – Monaco – SC Day - 2012



Oceanography Data

CHERRIC CONTRACTOR

Processing

naut





Oceanography Data





Oceanography Data

>3D display

nau





independant modules



Ifremer



Ifremer's experience

- CARAIBES

- SONARSCOPE
- 3 D VIEWER
- ADELIE

Merging all knowledge and experience

 \rightarrow based on scientists demands

Collaboration





Eurofleets

Towards an Alliance of European Research Fleets



Software development

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New technologies

- 3 D OpenGL

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- NASA WORLD WIND
- Portability Windows, Linux, MacOS

Getting GLOBE



– The 3D Viewer : freeware

Processing tools : under commercial licence

Users

lfremer

First users:

naut

- 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)



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

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.emodnethydrography.eu/)

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➢ 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
- \checkmark QC param. of individual cell including references to data sources
- \checkmark 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 !