DELTARES

Development of Visualization Services for SeaDataCloud

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Introduction
Deltares is an independent research institute for delta technology, incorporating advanced expertise on water, soil and subsurface issues.

- Research and Specialized Consultancy
- National and International
- Not-for-profit
Deltares

Working with:

- Governments
- Universities & Research Institutes
- Private sector, NGOs
Deltares

Expertise

- Flood Risk
- Sustainable Delta Planning
- Delta Infrastructure
- Water and subsoil resources
- Ecosystems and environmental quality
Deltares
Open Software

• Numerical models
Deltares

Open Software

- Numerical models
Deltaires

Facilities
Deltares

Serious games

- Through serious gaming, (open source) software, publications, data and models, doctorate supervision, Deltares Academy, workshops, congresses and research projects
Deltares

Projects

• Interactive modeling
Projects

- Aqua-Monitor
- http://aqua-monitor.appspot.com/
Deltare Projects

- Aqua-Monitor (Riga)
Deltarces

Projects

• Work on Emodnet Chemistry II
SeaDataCloud

Role

• **Task WP10.2:** Developing advanced services for search, processing, analytics, quality, visualisation - Led by IFREMER, MARIS, ETT, Deltares, AWI, ULG, 52North, VLIZ, and EUDAT

• WP10.2.5: development of visualisation services (Deltares)

• Furthermore, work along with the WP8/9 decisions: standards and upstream services.
SeaDataCloud

Scope

• Development of Services for Web visualisation of georeferenced data products (time-series, profiles, time-depth) for the EUDAT VRE users.
• Data analysis and data visualization via OGC Web Services
SeaDataCloud

OpenEarth

- OET experience
- Working with Data, Visualization, Open Standards
- http://www.openearth.nl/
SeaDataCloud

Interaction

- plot.ly
- R Shiny
SeaDataCloud

Interaction

- Jupiter notebooks
- WPS
- BMI Basic model interface: interact with a computer model while running. Example
SeaDataCloud

Discussion

- Exchange ideas for visualizations
- Exchange cloud computing experiences
- Discussion on technical details (e.g. WPS, notebooks, containers, ugrid, BMI,)
- Implementation of Services in EUDAT VRE
Thanks. Questions?