Ocean Data View (ODV) software and the cloud

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Ocean Data View (ODV)

- Developed by Reiner Schlitzer (AWI)
- Approx. 3,000 active users (>60,000 registrations)
- Oceanographic and other geo-referenced data
- Interactive exploration, analysis and visualisation
- Profiles, time series, trajectories, other sequence data
- Windows, Mac, Linux, Unix
- https://odv.awi.de
Quality Control
Sections
Scatter plots
webODV (Ocean Data View -- online)

- Provide typical ODV functionality over the Internet
- Desktop like user experience
- Centrally maintained datasets
- Services
  - Data extraction
  - Quality control
  - Visualization
webODV -> VRE -> EUDAT infrastructure
webODV - Concept

Client

- Frontend
  - Responsive Web Design
  - Touch-screen
  - Modular

Services

- Data extraction
- Quality control
- Visualization

EUDAT Server

- Backend
  - HTTPS (TLS)
  - Single Sign On
  - WebDAV

Data

secure WebSockets
Data extraction at https://webodv.awi.de (in production)
Quality control (prototype)
Conclusions

● Concept works
● Desktop like user experience
● Fast, powerful, stable and efficient
● Scalable and modular

Next steps

● Implementation into the VRE in close collaboration with users and EUDAT partners
● Development of visualization services
Back Up Slides
Data extraction at https://webodv.awi.de
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Quality control (prototype)

Browser

Server

WebSockets

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