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SeaDataCloud

Bringing the *Ocean Data View* (ODV) software to the web

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ODV - As Standalone Tool

- Interactive analysis and visualization software for Windows, Linux and MacOS
- Very large user community (>66,000 registered users; ca. 20 new users per day; ca. 200 website visitors per day; >8000 ODV5 installations since Mar/15/2018)
- ODV graphics published in high-level scientific journals (e.g., Nature, Science, PNAS and PlosOne) as well as textbooks
- ODV formats adopted by international projects and data systems (e.g., EU SeaDataCloud, US SeaCube, ERDDAP)
- Widely used importers for SeaDataNet, World Ocean Database, Argo, GTSPP, WOCE, SeaBird, etc.

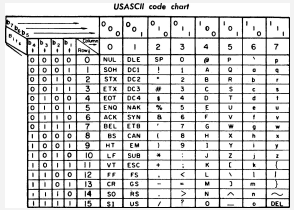
Data formats

1. ODV Collections

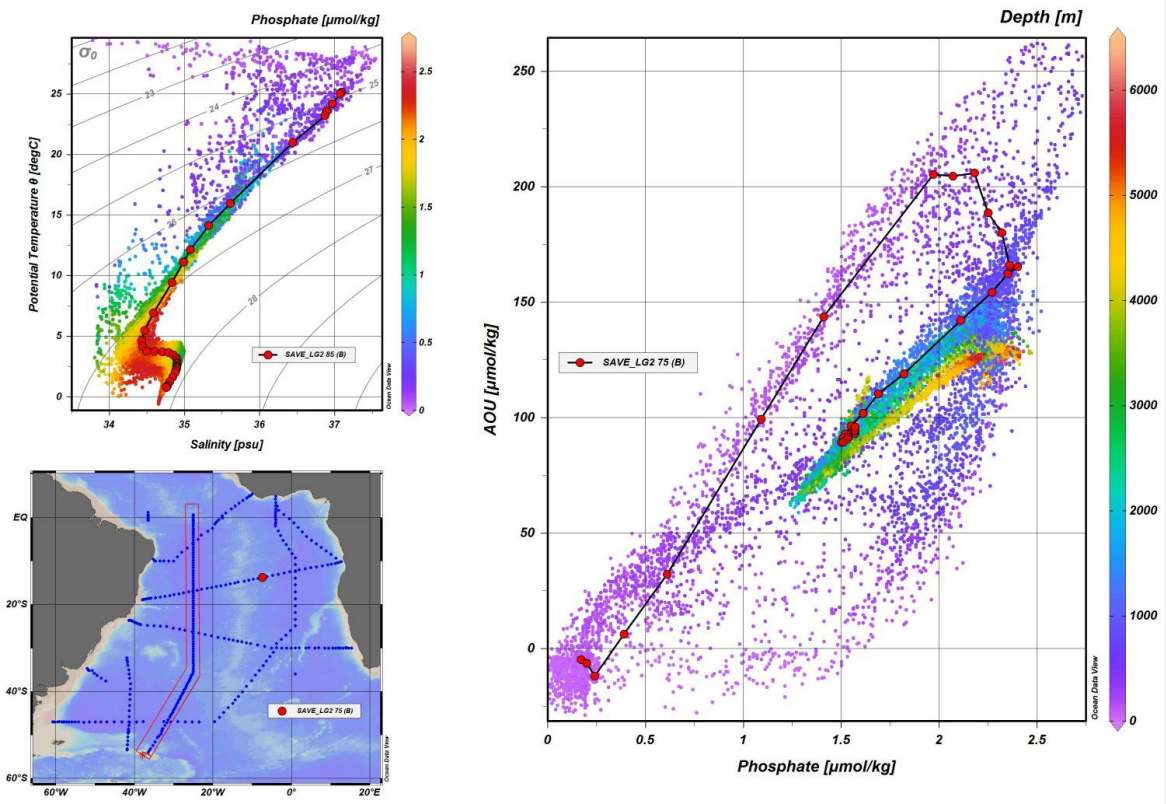
   Optimized for dense storage and fast access

2. netCDF

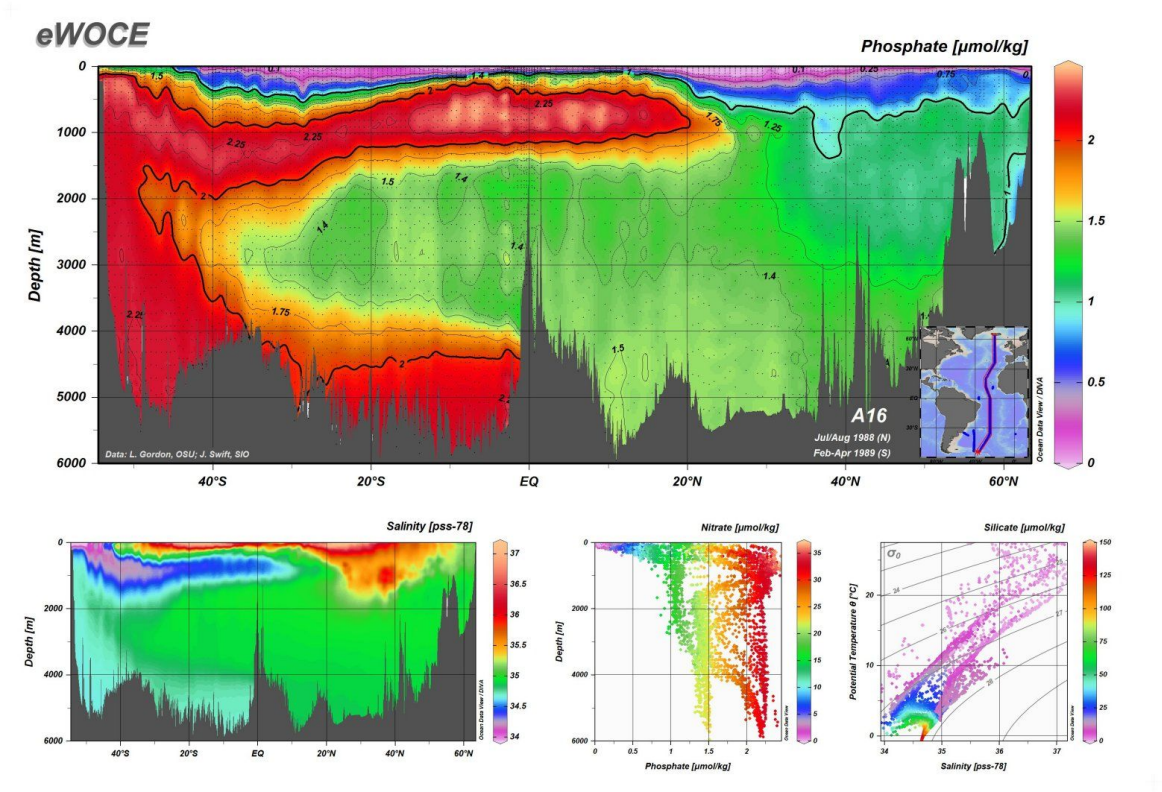
3. ASCII text



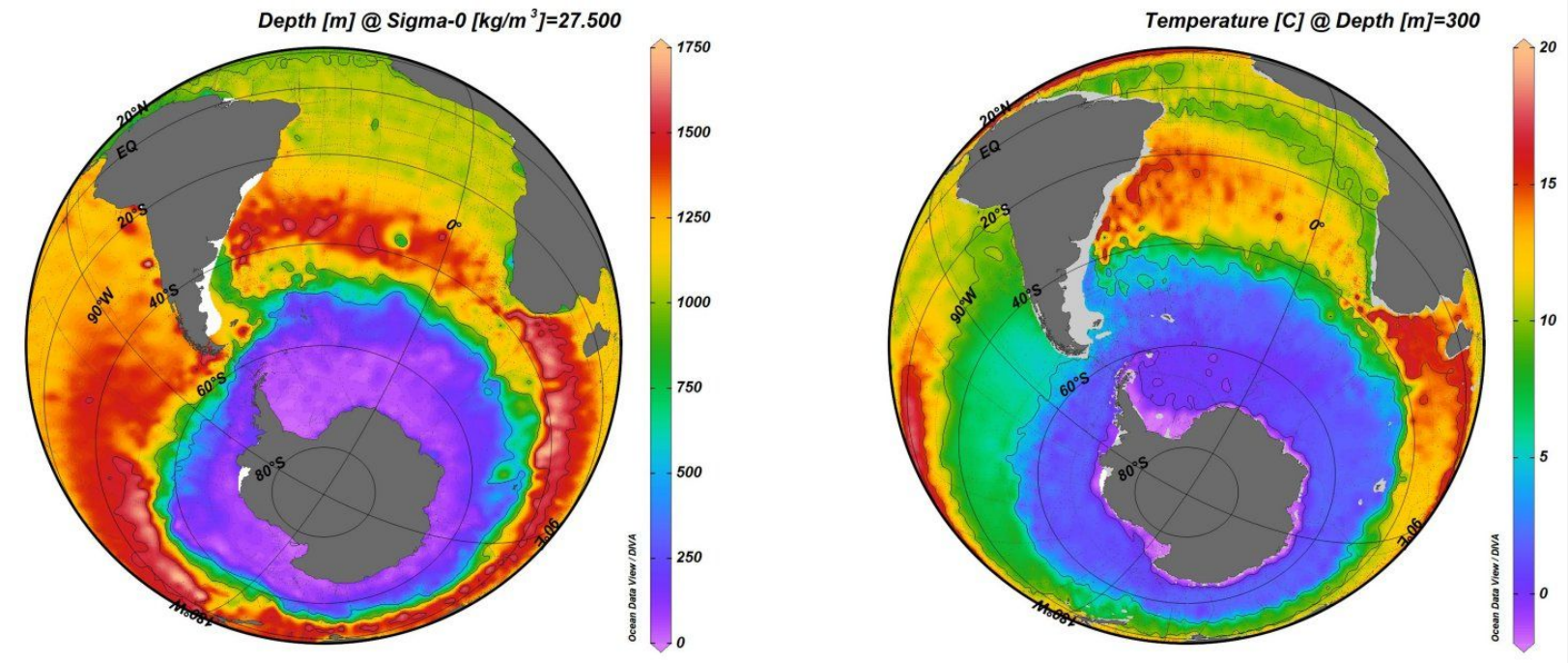
Property/property plots of all stations



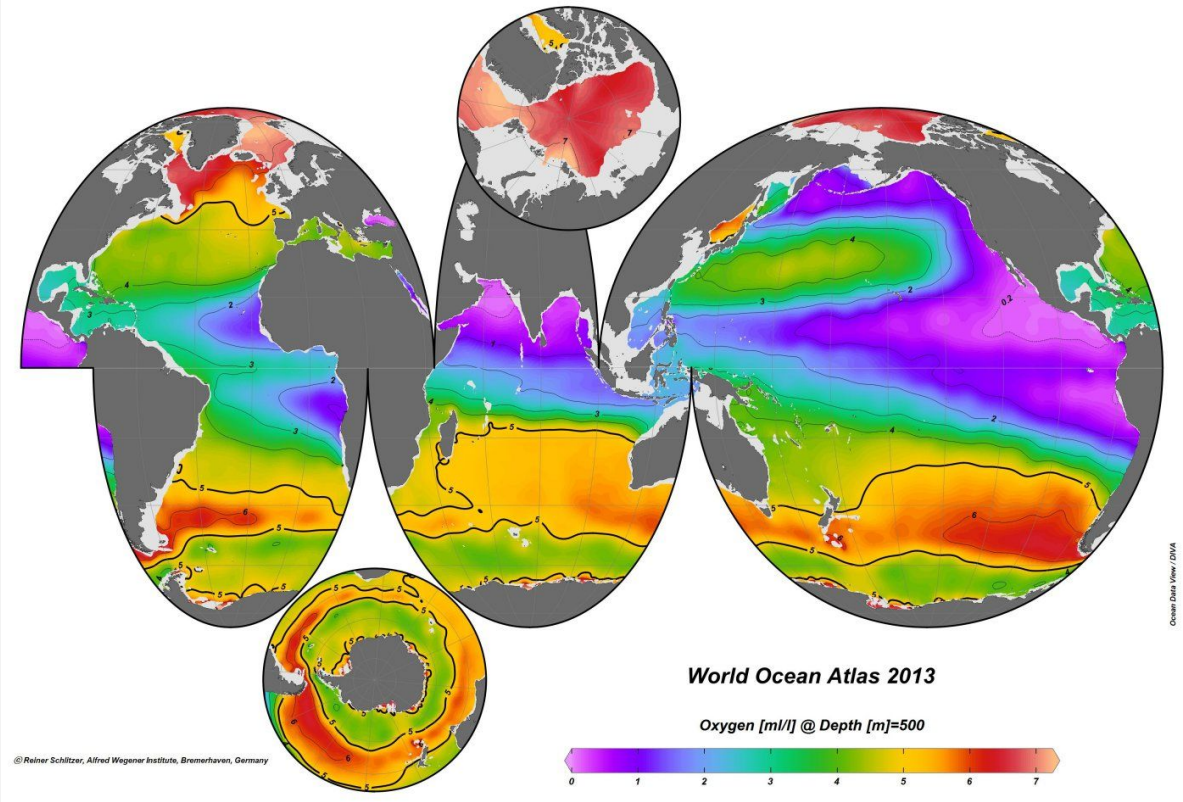
Section plots



Property plots on iso-surfaces



Interupted maps



Future

- Continue **ODV** standalone development
  - Personal data
  - No Internet connection

- Develop **webODV** - a tool for the online analysis of marine data
  - Large community datasets (SDC, Copernicus, WOA)
  - Bring the user to the data
  - No copies of datasets
  - No installation of software
  - Available on all devices (PC, Laptop, Tablet, Smartphone)
  - Integration into Virtual Research Environments (SeaDataCloud)

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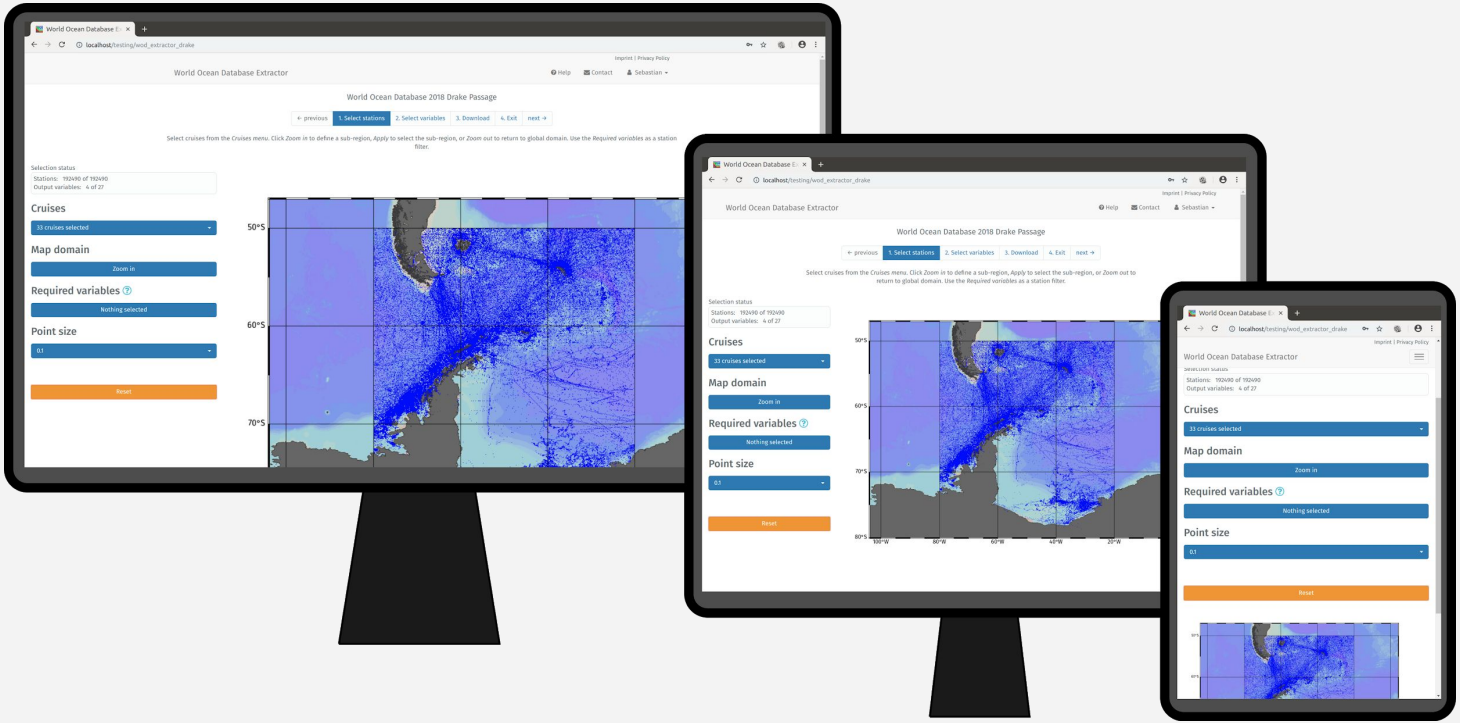
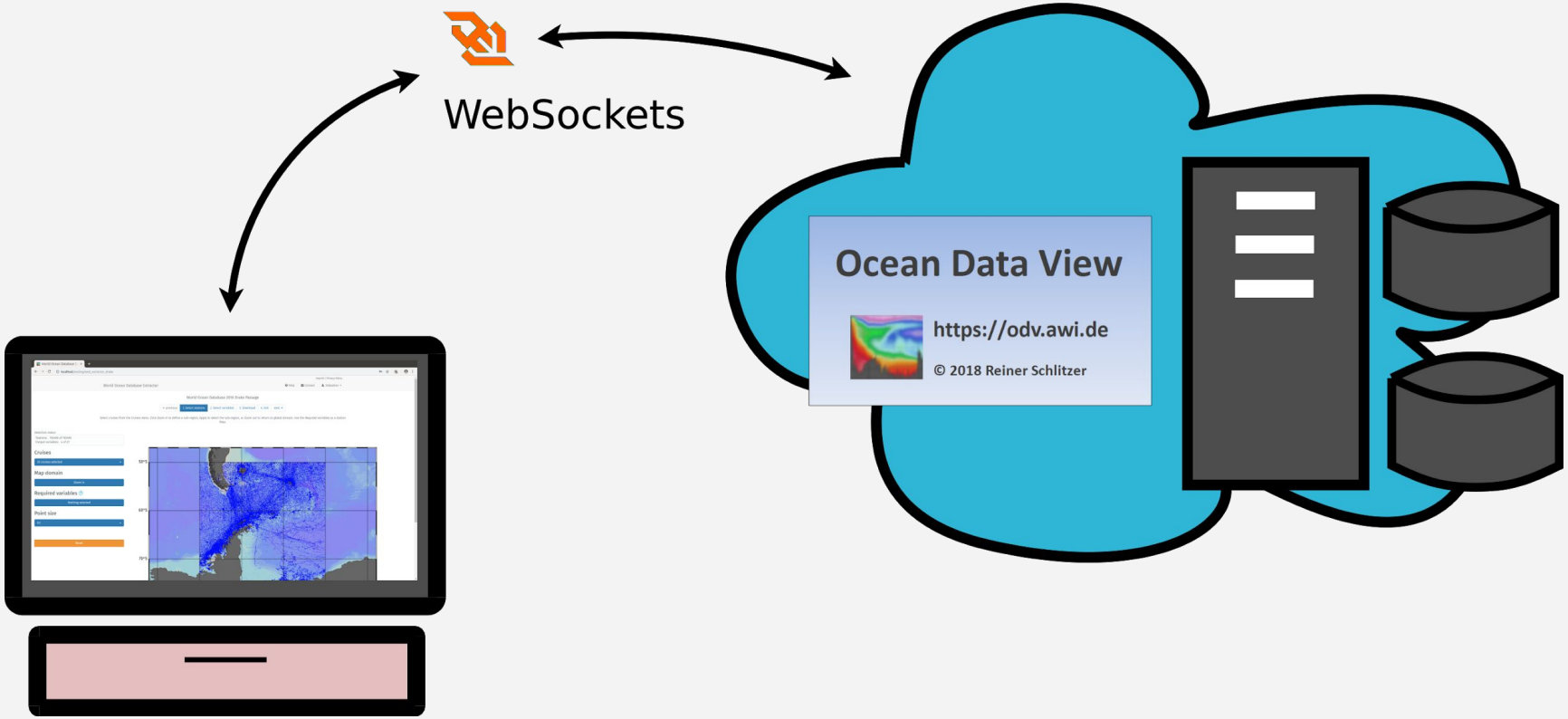
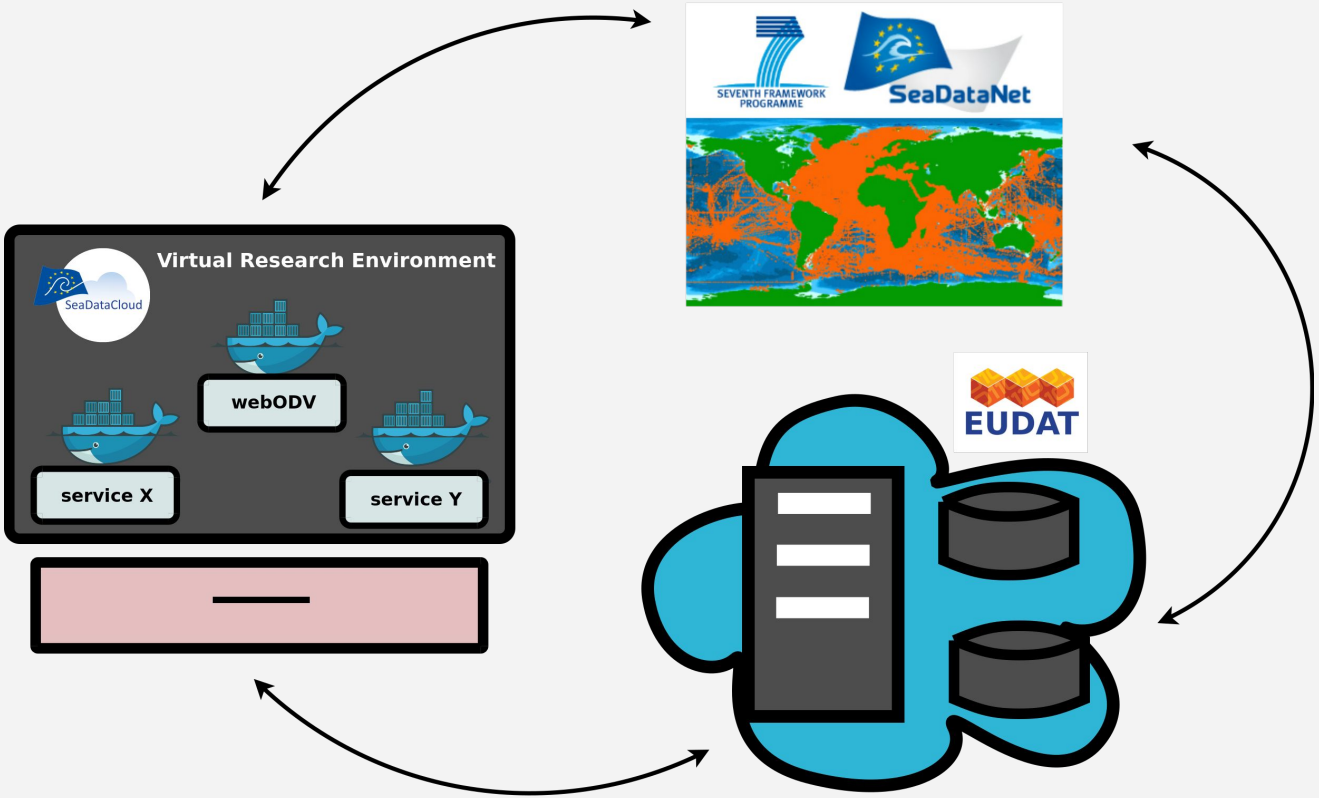
webODV - a tool for the online analysis of environmental data



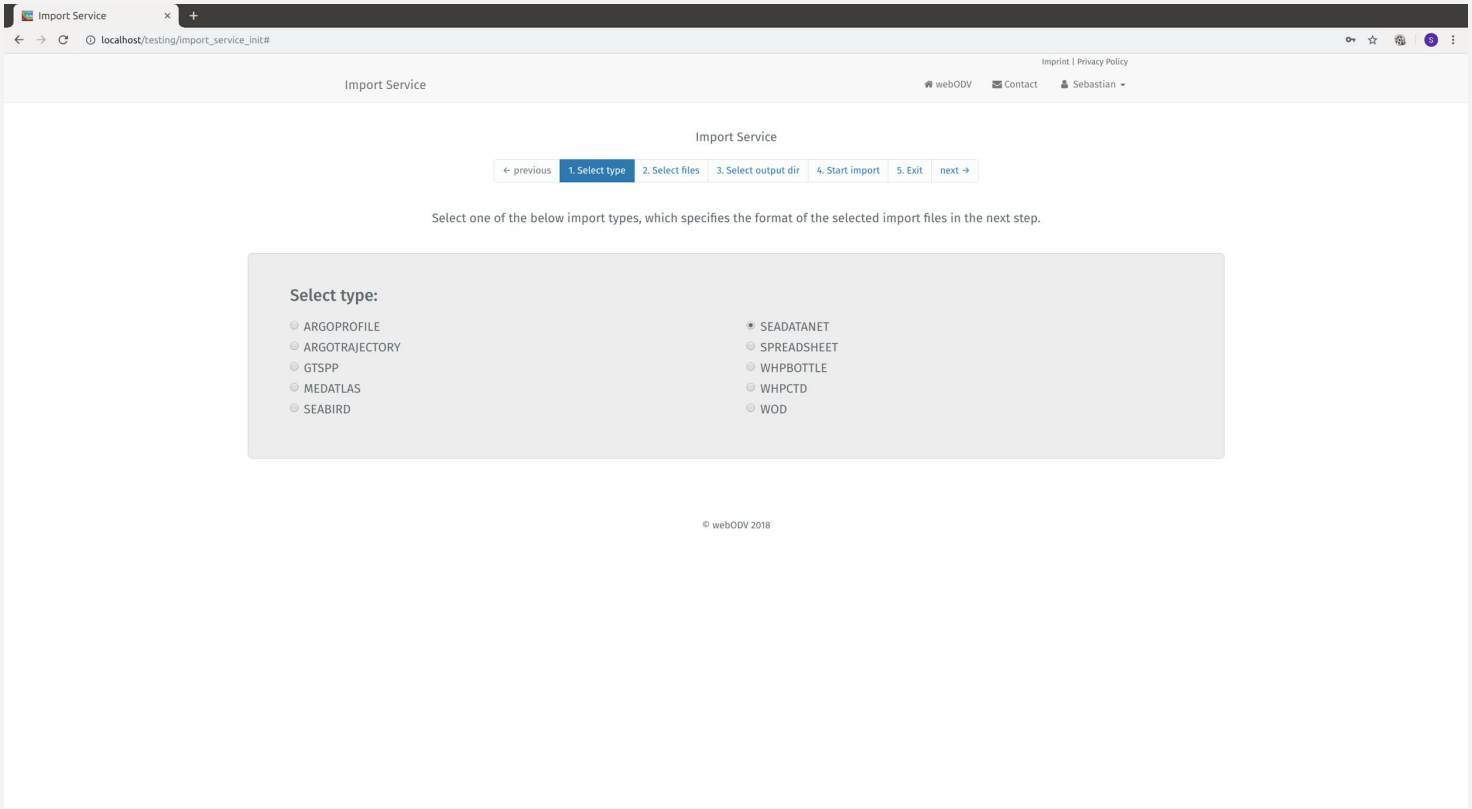
webODV concept



webODV in the SeaDataCloud Project



webODV services: Importer



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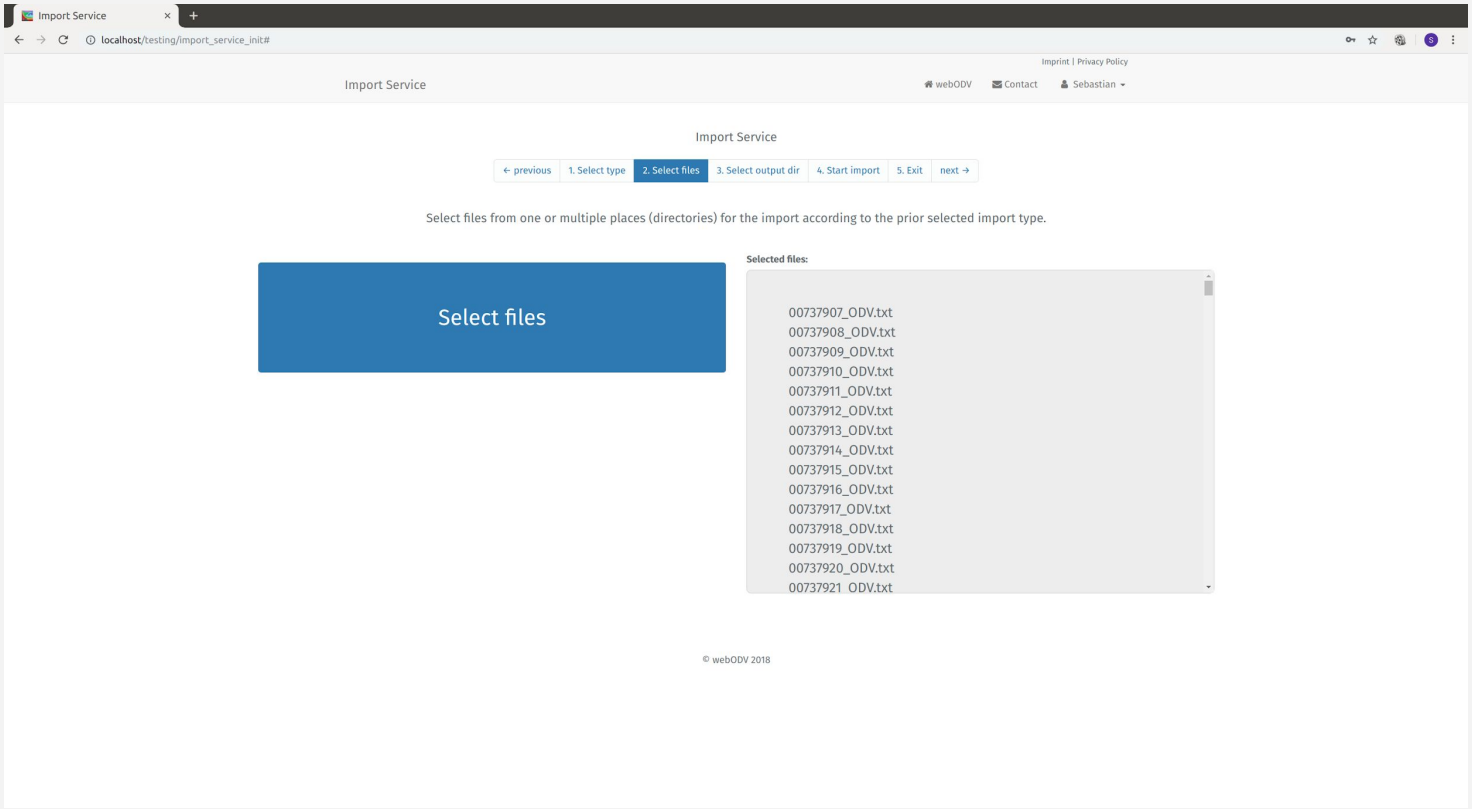

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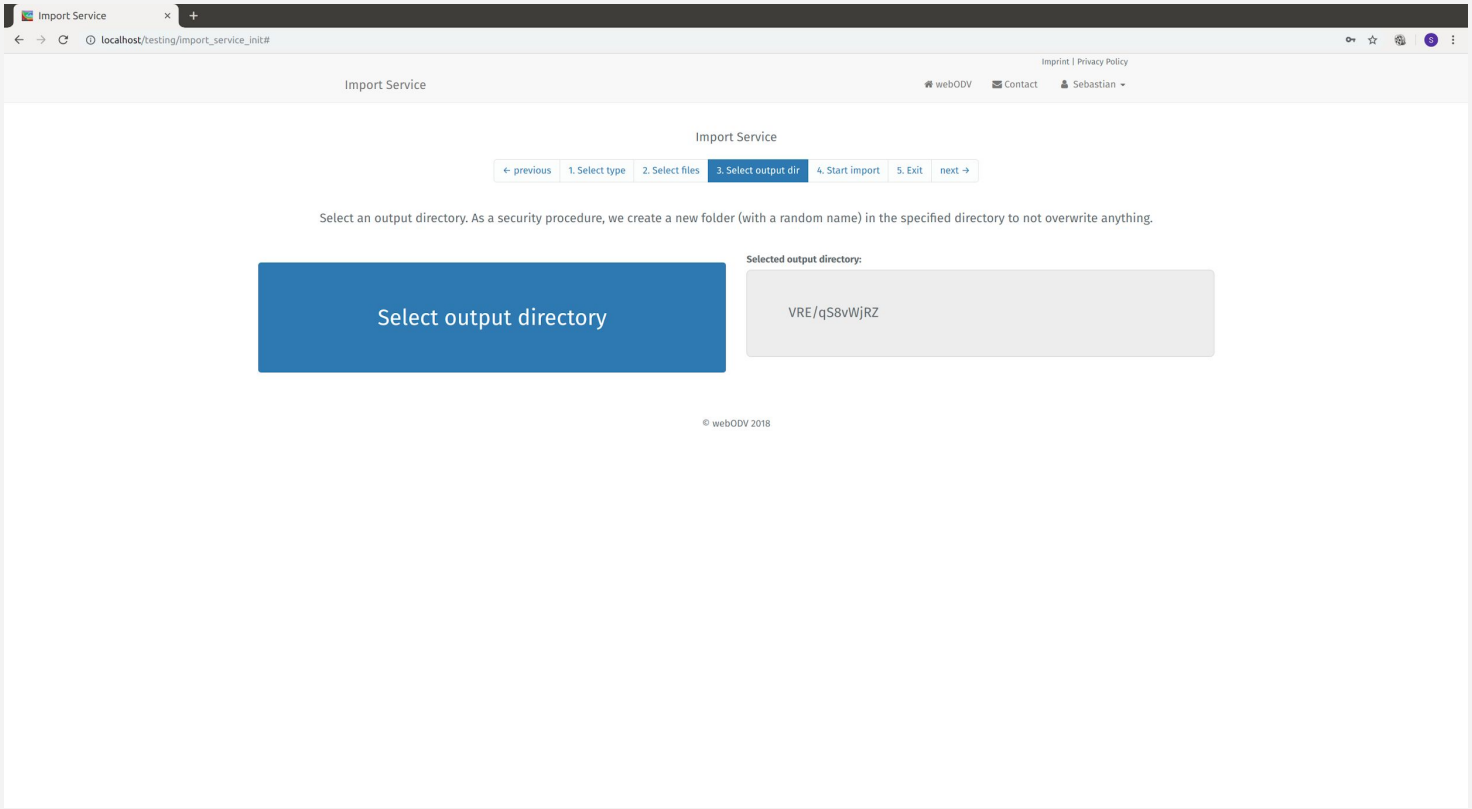

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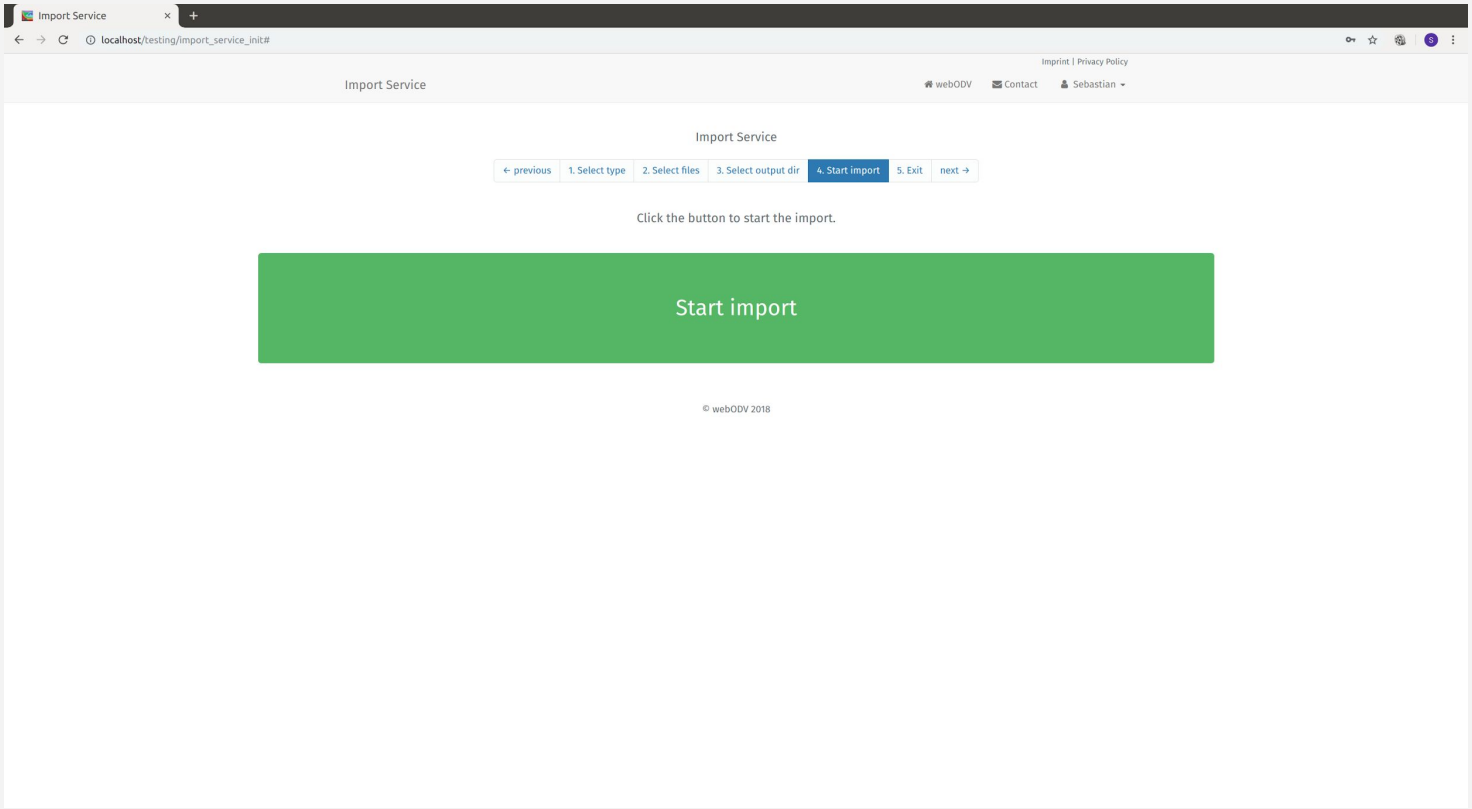
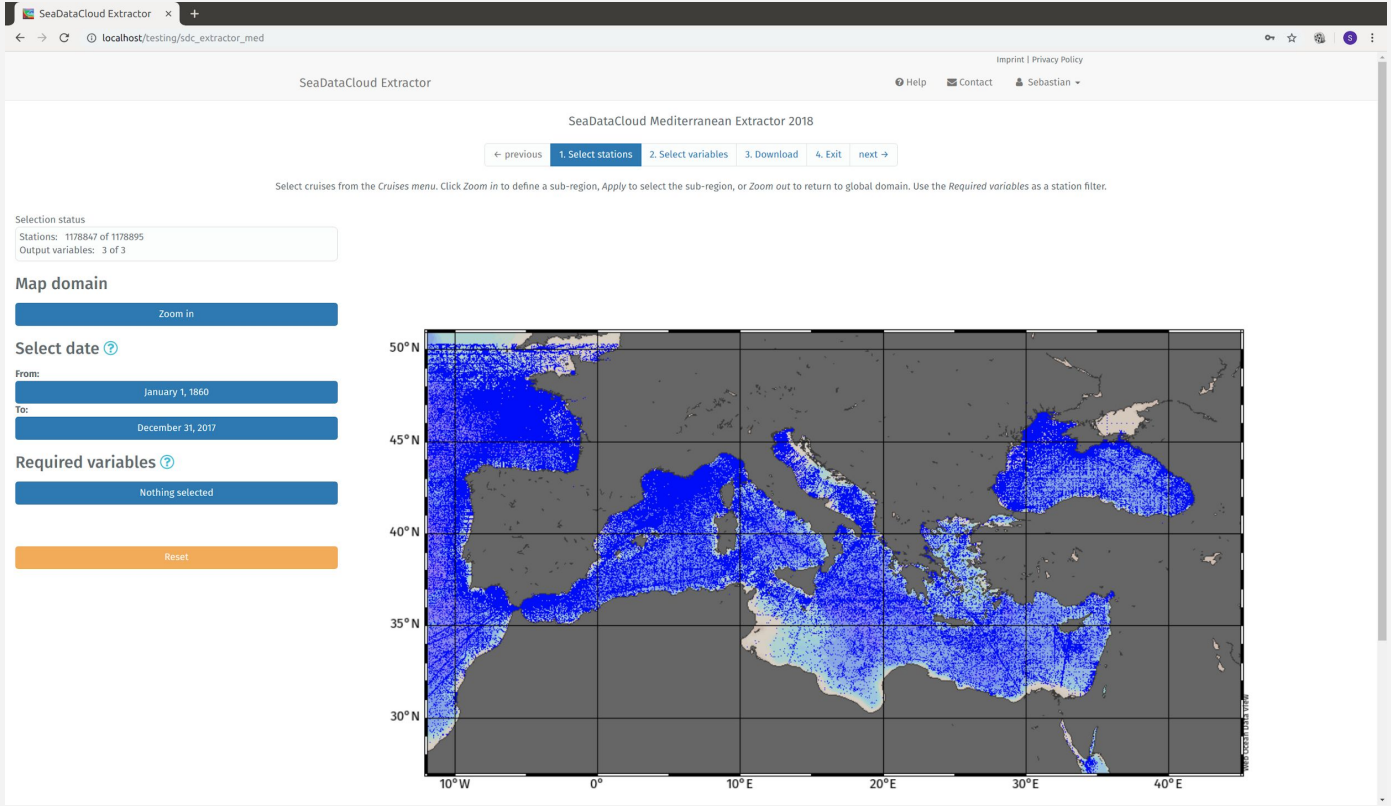


webODV services: Extractor



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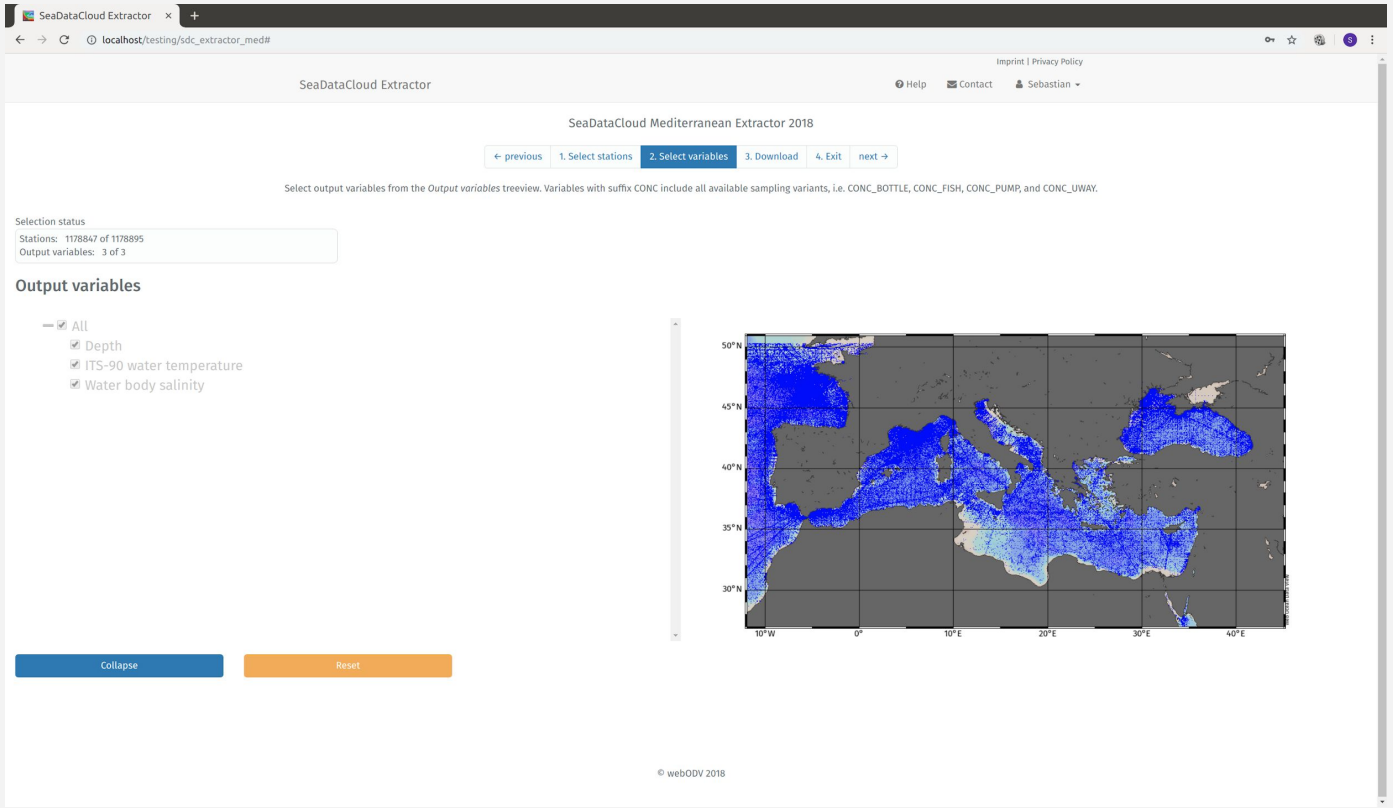
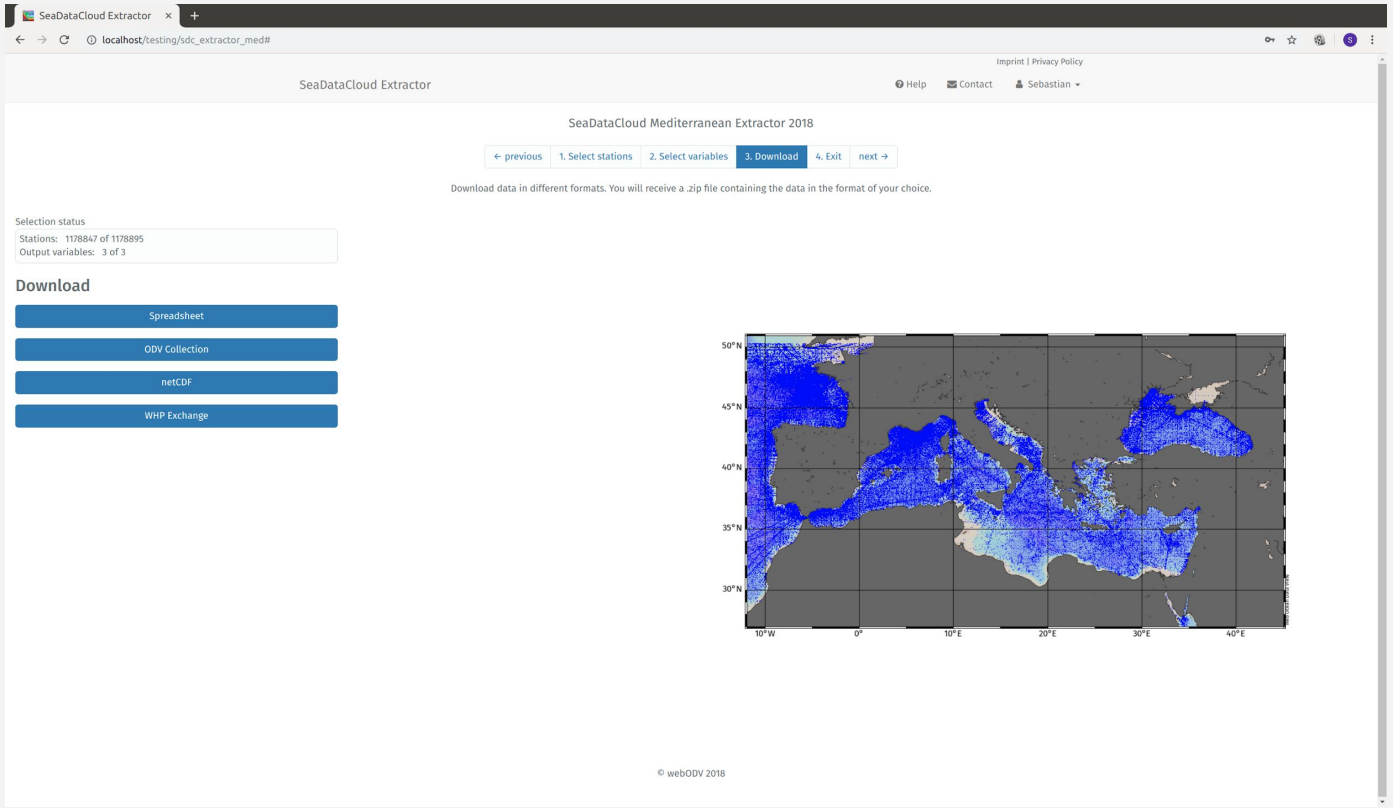
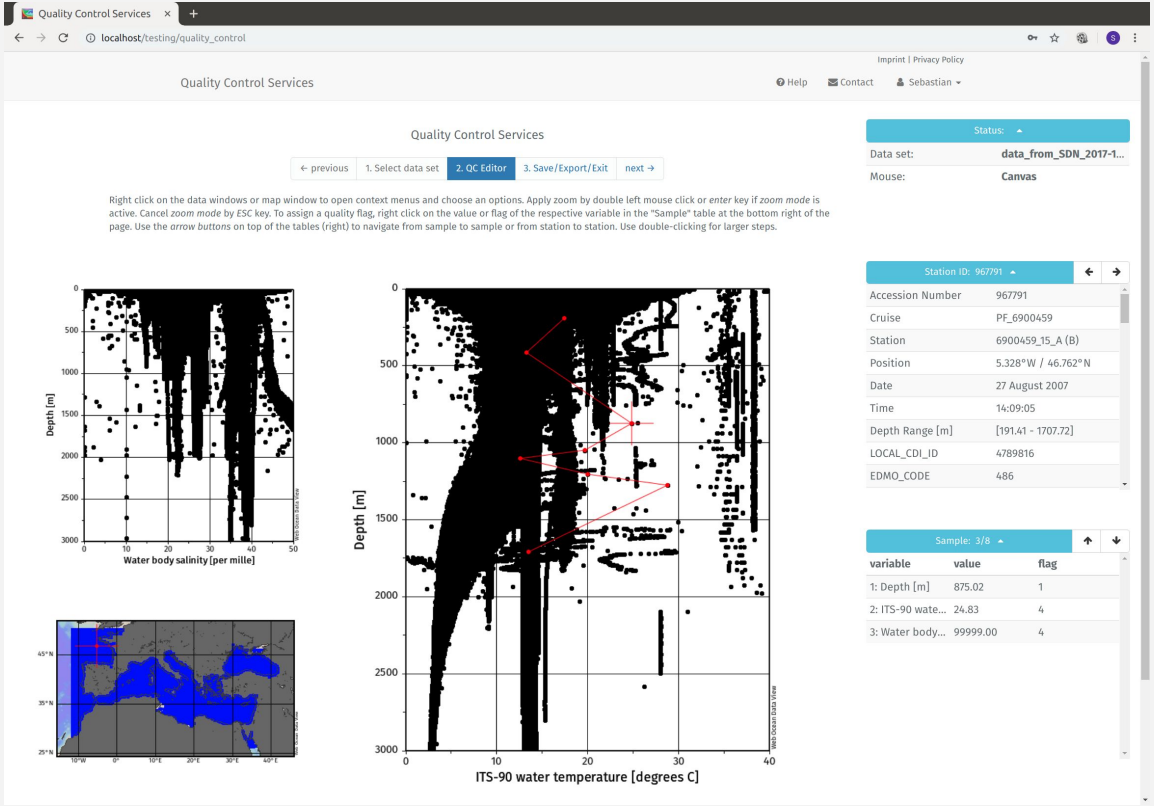


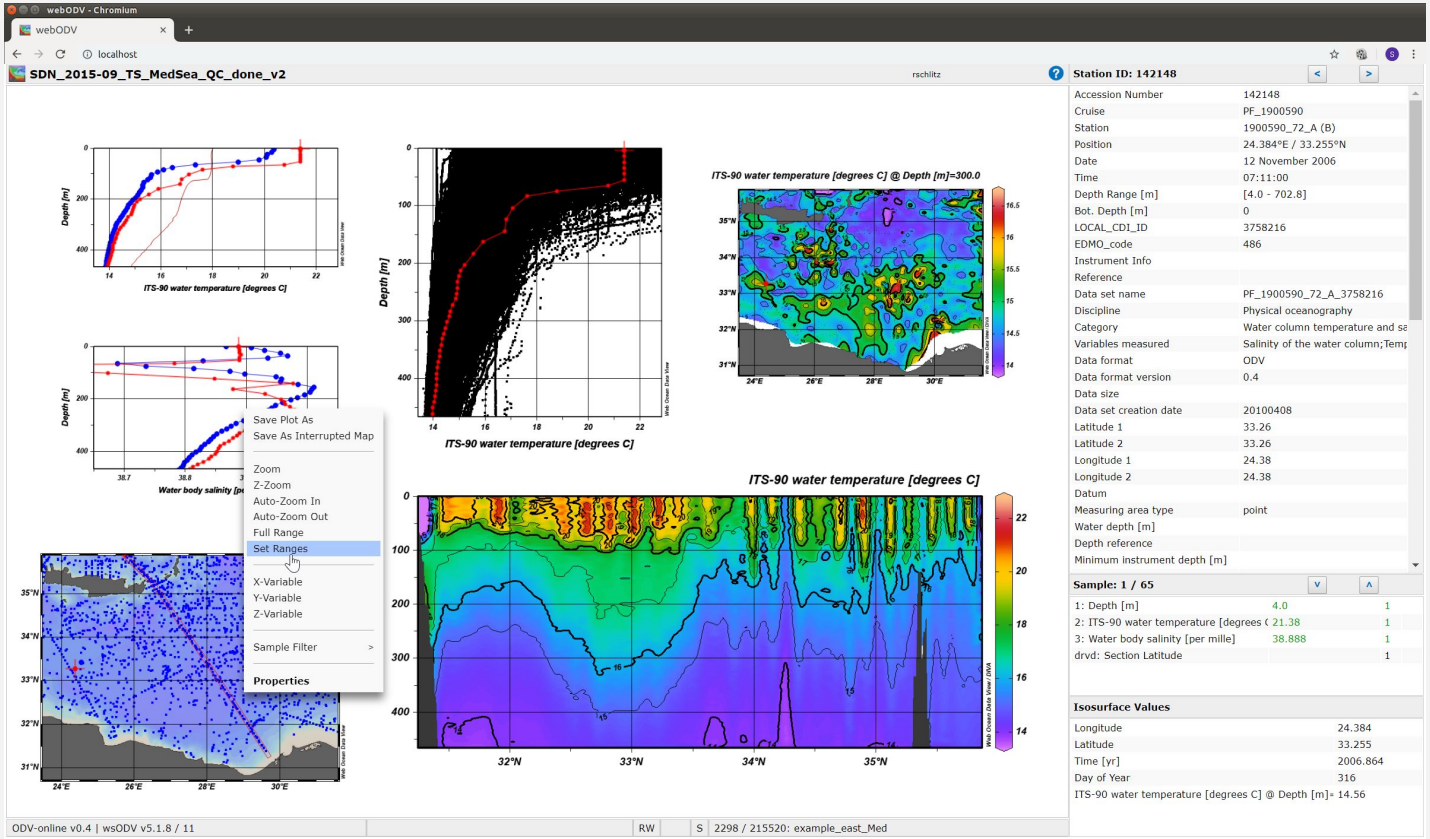
webODV services: Extractor



webODV services: Quality Control



webODV services: ODV-online



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Thank you for your attention.