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
Interrupted 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)
webODV - a tool for the online analysis of environmental data
webODV concept

WebSockets

Ocean Data View
https://odv.awi.de
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webODV in the SeaDataCloud Project
webODV services: Importer
webODV services: Importer
webODV services: Importer

Select output directory

VRE/qS6vKRZ
webODV services: Importer
webODV services: Extractor
webODV services: Extractor
webODV services: Extractor
webODV services: Quality Control
webODV services: ODV-online
Thank you for your attention.