

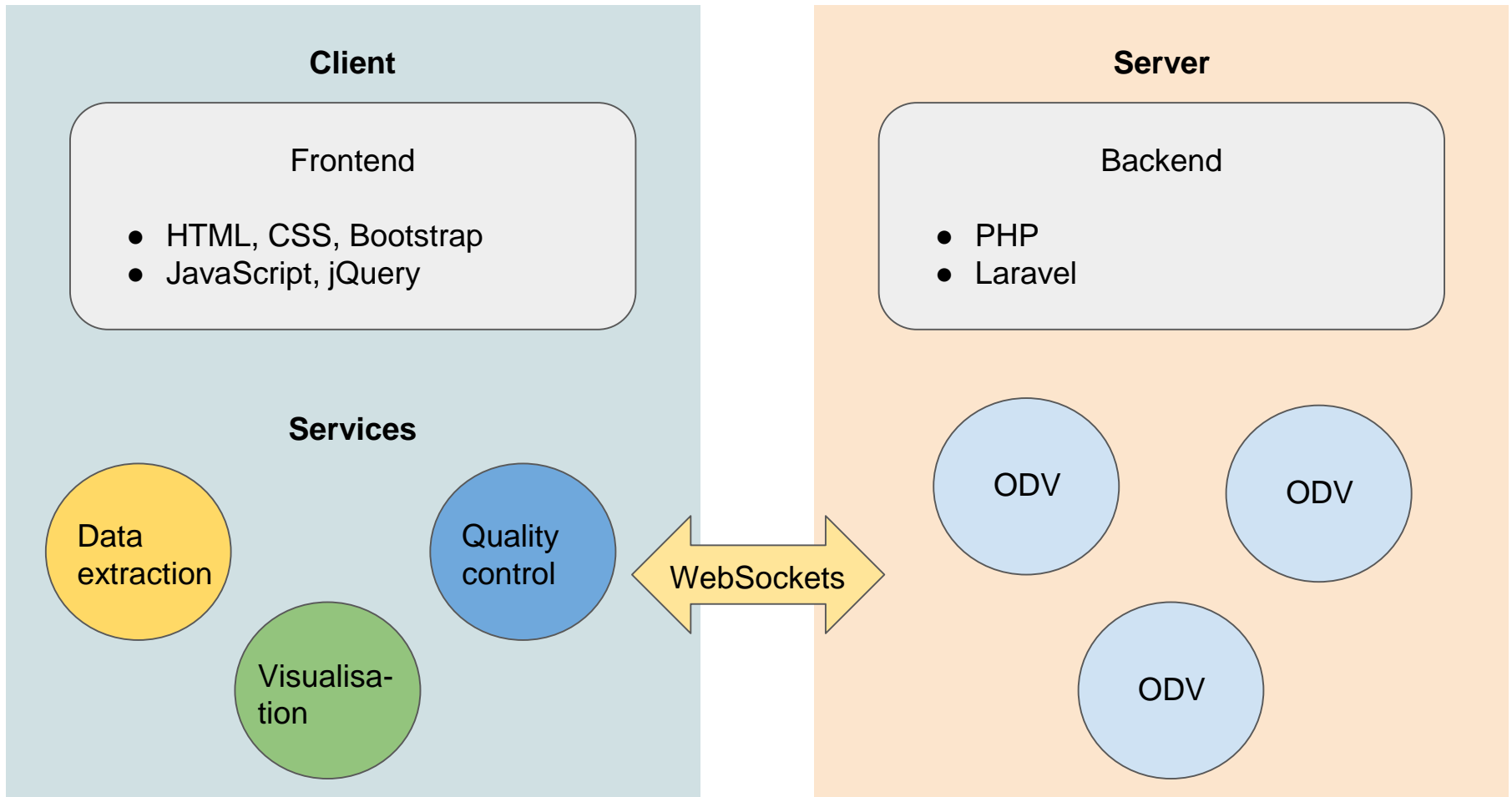
# webODV

Ocean Data View - Online  
as VRE application

**Sebastian Mieruch and Reiner Schlitzer**



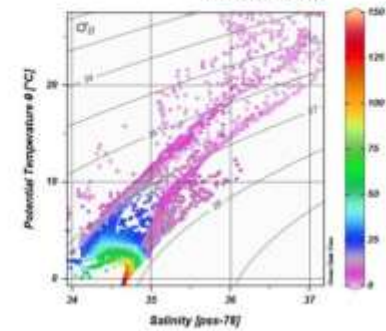
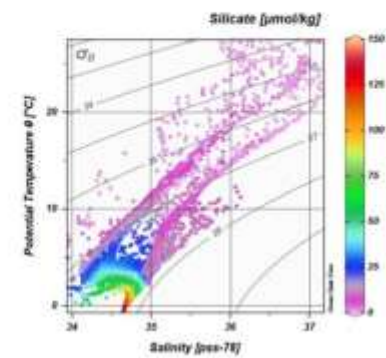
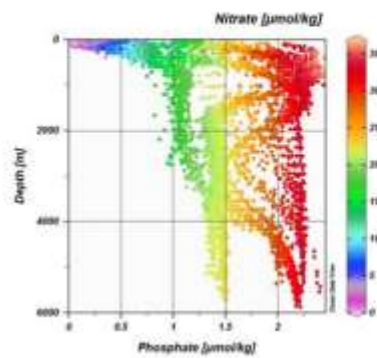
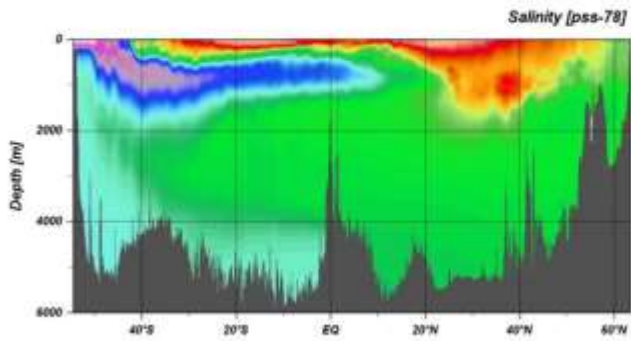
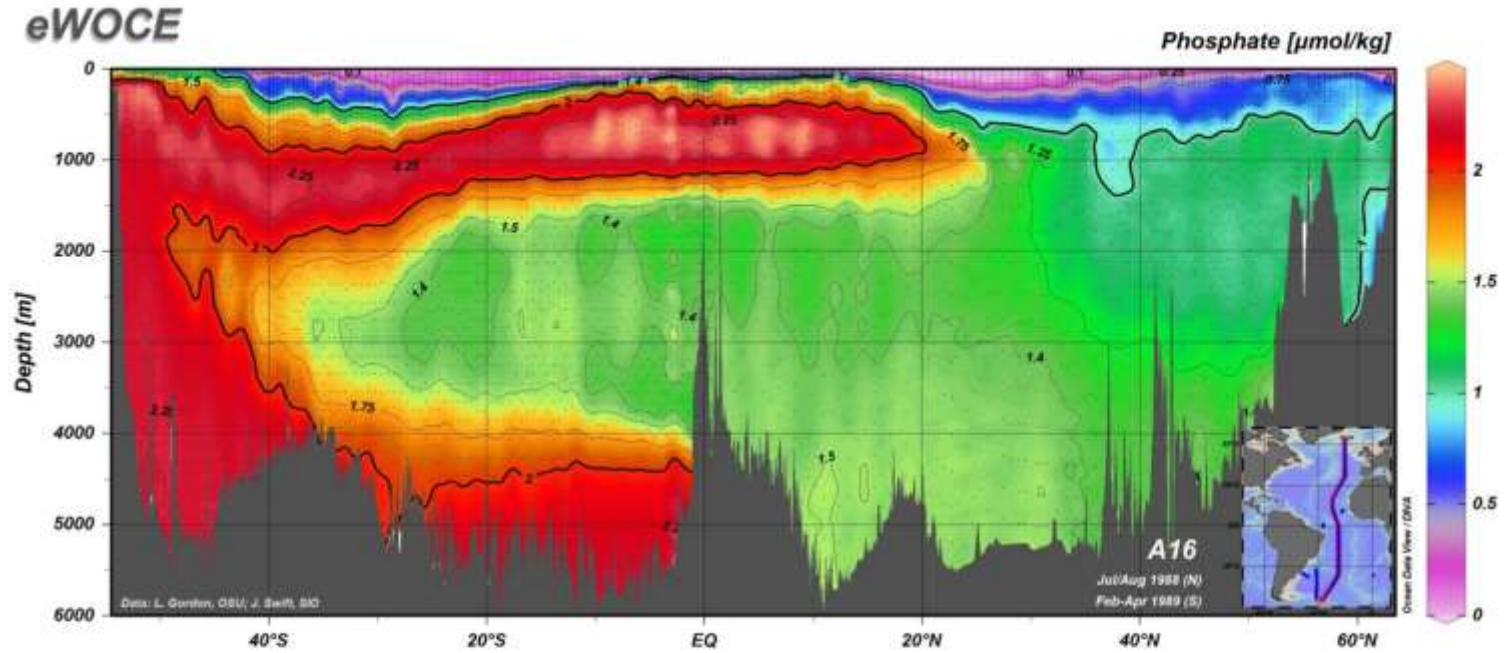
# webODV is ready as a web service



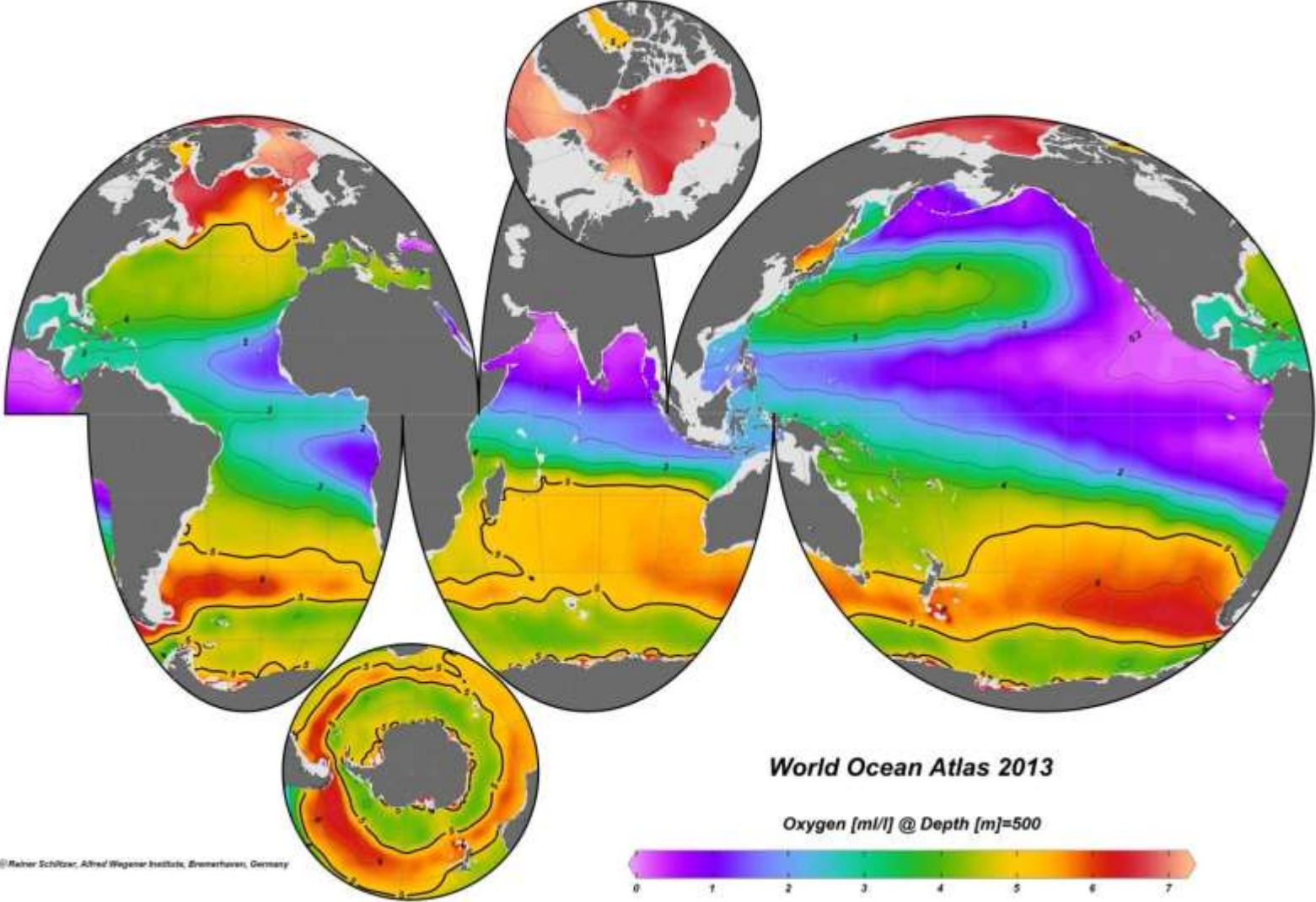
# Data extraction at <https://webodv.awi.de>

The screenshot displays the 'GEOTRACES Data Extractor' web application. The main heading is 'GEOTRACES 002201 v1 Discovery Sample Data'. Below this, there are navigation buttons: '1. Overview', '2. Select variables', '3. Download', '4. Edit', and '5. Help'. A text instruction reads: 'Select cruises from the Cruise menu. This step is to define a sub-region. Apply to select the sub-region or Download to return to global domain. Apply and as many required variables as only select stations containing data for all the required variables'. On the left side, there are input fields for 'Cruises' (with a dropdown menu), 'Map domain' (with 'Apply' and 'Cancel' buttons), and 'Required variables' (with a dropdown menu). A large world map is shown in the center, with a blue shaded rectangular region in the Atlantic Ocean. The map includes a coordinate grid with latitude and longitude markers. At the bottom center, there is a timestamp: '9:44:00 2019'.

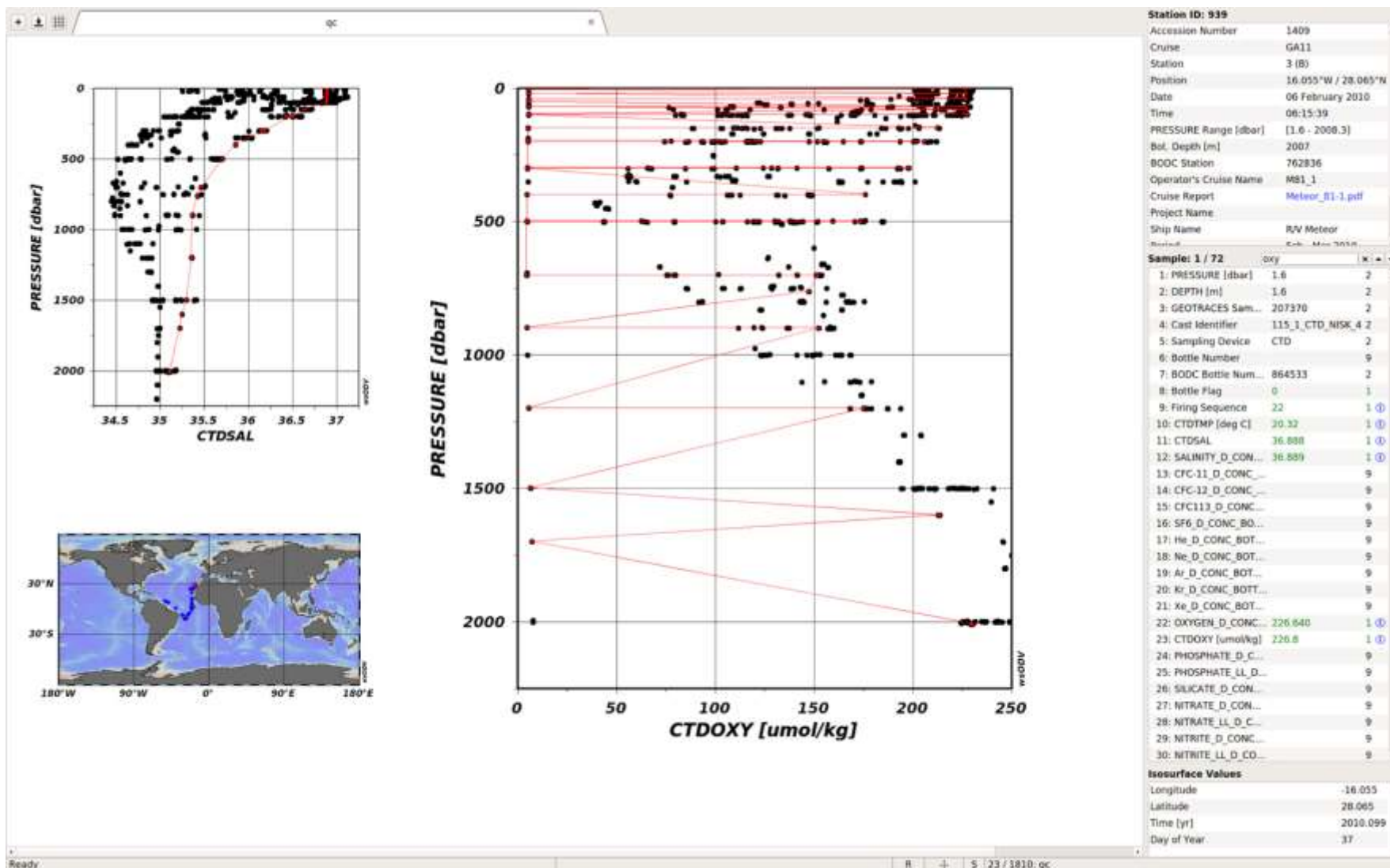
# Sections



# Maps



# Quality Control



# Conclusions

## **webODV**

- Concept works
- User-friendly web interface
- Fast, powerful, stable and efficient
- Scalable and modular

## **Next steps**

- Implementation into the VRE
- Development of further services

# Data extraction at <https://webodv.awi.de>

The screenshot displays the GEOTRACES Data Extractor web application. The browser address bar shows the URL [https://webodv.awi.de/geotraces\\_extractor\\_buttler](https://webodv.awi.de/geotraces_extractor_buttler). The page title is "GEOTRACES Data Extractor".

The main heading is "GEOTRACES IDP2017 v1 Discrete Sample Data". Below this, there is a navigation bar with buttons: "previous", "1. Select stations", "2. Select variables", "3. Download", "4. Exit", and "next".

Instructions below the navigation bar state: "Select cruises from the Cruises menu. Click Zoom in to define a sub-region, Apply to select the sub-region, or Zoom out to return to global domain. Specify one or more Required variables to only select stations containing data for all the required variables."

On the left side, there are several control panels:

- Info:** Shows "Stations: 1810 of 1810" and "Output variables: 5 of 458".
- Cruises:** A dropdown menu showing "29 cruises selected".
- Map domain:** A "Zoom in" button.
- Required variables:** A "Nothing selected" button.
- A "Reset" button at the bottom of the left panel.

The central part of the page features a world map with a grid. The map shows numerous blue lines representing cruise tracks and small blue dots representing data stations. The map is centered on the Atlantic Ocean, with latitude lines from 60°N to 60°S and longitude lines from 180°W to 90°E.

At the bottom center of the page, there is a copyright notice: "© webODV 2017".



# Data extraction at <https://webodv.awi.de>

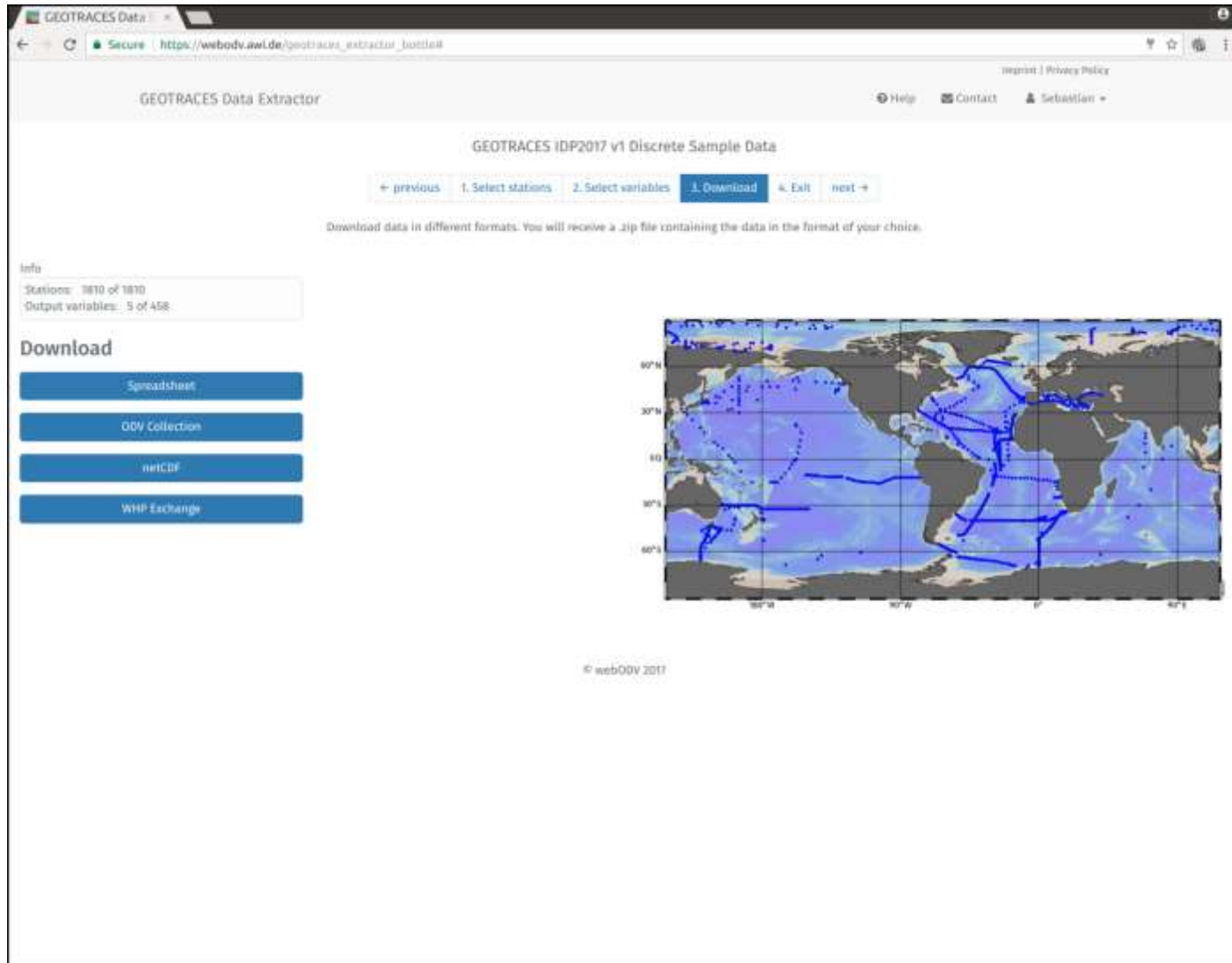
The screenshot shows the GEOTRACES Data Extractor web interface. The browser address bar displays the URL [https://webodv.awi.de/geotraces\\_extractor\\_buttler](https://webodv.awi.de/geotraces_extractor_buttler). The page title is "GEOTRACES Data Extractor". The main heading is "GEOTRACES IDP2017 v1 Discrete Sample Data". Below the heading, there are navigation buttons: "← previous", "1. Select stations", "2. Select variables" (highlighted in blue), "3. Download", "4. Exit", and "next →". A message below the navigation buttons says "Select output variables from the Output variables treeview".

On the left side, there is an "Info" box showing "Stations: 1810 of 1810" and "Output variables: 5 of 458". Below this is a search bar with the text "Search" and a magnifying glass icon. The "Output variables" section is expanded, showing a treeview of variables:

- [-] All
  - PRESSURE
  - DEPTH
  - Sample Metadata
  - Hydrography
  - Biogeochemistry
  - Nutrient and Water Isotopes
  - Dissolved Trace Elements
  - Dissolved Rare Earth Elements
  - Dissolved Radiogenic Isotopes
  - Dissolved Lead Isotopes
  - Dissolved Trace Element Isotopes
  - Dissolved Natural Radionuclides
  - Dissolved Artificial Radionuclides
  - Ligands and Inorganic Elements
  - Filtration\_Volume
  - Particulate Major Phases

At the bottom of the treeview, there are two buttons: "Collapse" (blue) and "Reset" (orange). On the right side, there is a world map showing the GEOTRACES sampling tracks in blue. The map includes latitude and longitude markers (60°N, 30°N, 0°, 30°S, 60°S; 90°W, 0°, 90°E). At the bottom center, there is a copyright notice: "© webODV 2017".

# Data extraction at <https://webodv.awi.de>



The screenshot shows the GEOTRACES Data Extractor web interface. The browser address bar displays the URL [https://webodv.awi.de/geotraces\\_extractor\\_bootstrap](https://webodv.awi.de/geotraces_extractor_bootstrap). The page title is "GEOTRACES Data Extractor". The main heading is "GEOTRACES IDP2017 v1 Discrete Sample Data". Below the heading, there are navigation buttons: "+ previous", "1. Select stations", "2. Select variables", "3. Download", "4. Exit", and "next +>". A message states: "Download data in different formats. You will receive a .zip file containing the data in the format of your choice." On the left, there is an "Info" section showing "Stations: 1810 of 1810" and "Output variables: 5 of 458". Below the info, there is a "Download" section with four buttons: "Spreadsheet", "ODV Collection", "netCDF", and "WHP Exchange". On the right, there is a world map showing sampling stations and tracks. The map includes latitude and longitude coordinates (90°N, 30°N, 0°, 30°S, 60°S; 180°W, 90°W, 0°, 90°E). At the bottom center, there is a copyright notice: "© webODV 2017".