

webODV Data Extractor HowTo

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This document describes briefly the basic functionality of the webODV Data Extractor.

General

We restrict the number of your webODV data extractor sessions or instances to **4**, i.e. you can only use this number of extractor instances simultaneously, e.g. in different browser tabs. Your session will be automatically closed after 1 h of inactivity. If this happens, we will save the current state of the extractor and inform you by a pop-up message. At the moment the current state of the extractor will be saved in your browser, i.e. it will be restored in a follow up session in the same browser as long as you do not delete your browser's cache.

To extract data you have to follow the four steps indicated on the top pager bar. The pages do not have to be visited by order, rather you can jump between them. Click with the left mouse button or use the keyboards arrow keys for navigation.

1. Select cruises / domain / time range

The Map

Click with the left mouse button into the map to select single stations. Meta data of that station are shown below.

SELECTION STATUS

This info box (right side) informs about the number of selected stations and output variables. Note that at least one station and one data variable has to be selected to start the download in step 4.

EXPORT IMAGE

Download the current map as a high quality .png image.

DATA PREVIEW

Switch to the visualization layout and create a scatter plot of the data. Select x and y axes variables, set axes ranges and hide/show outliers.

SELECTED VARIABLES (OR)

This list shows the currently selected variables, whereas the actual selection takes place on page two. The OR or AND in brackets indicates the selection mode and is explained below in the context of variable selection.

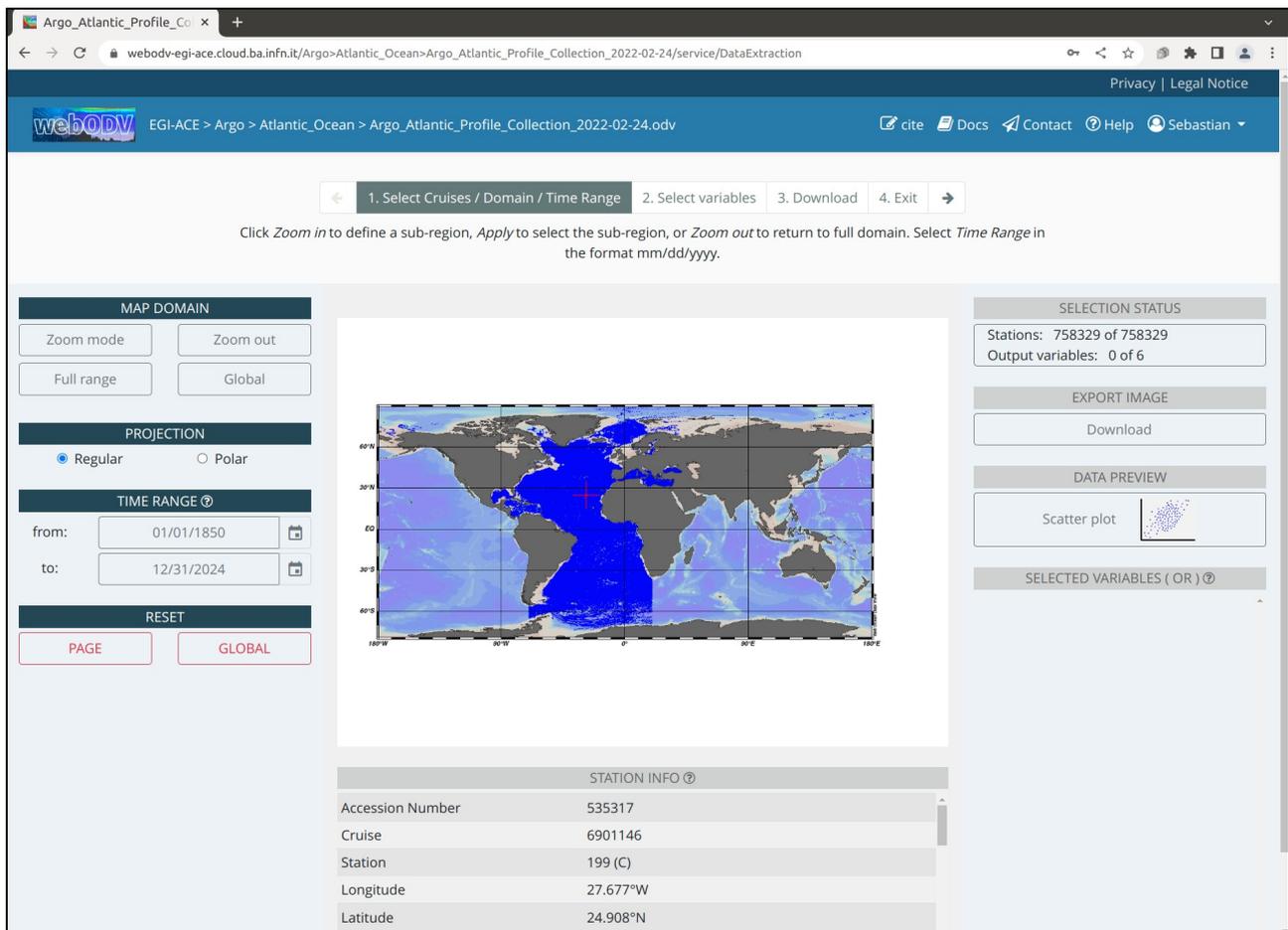


Figure 1: Select Cruises / Domain / Time Range.

MAP DOMAIN

A click on *ZOOM MODE* activates the interactive zoom function within the map. The size of the new zoom region can be changed by moving edges or corners of the rectangle with clicking and dragging the mouse. New rectangles can be created by clicking into the map, while holding the left mouse button and dragging.

ZOOM OUT automatically zooms out of the selected region. *FULL RANGE* creates a map including all stations, but no “station free” area. *GLOBAL* displays a global map.

Projection

Switch between the default polar projection and a rectangular map projection.

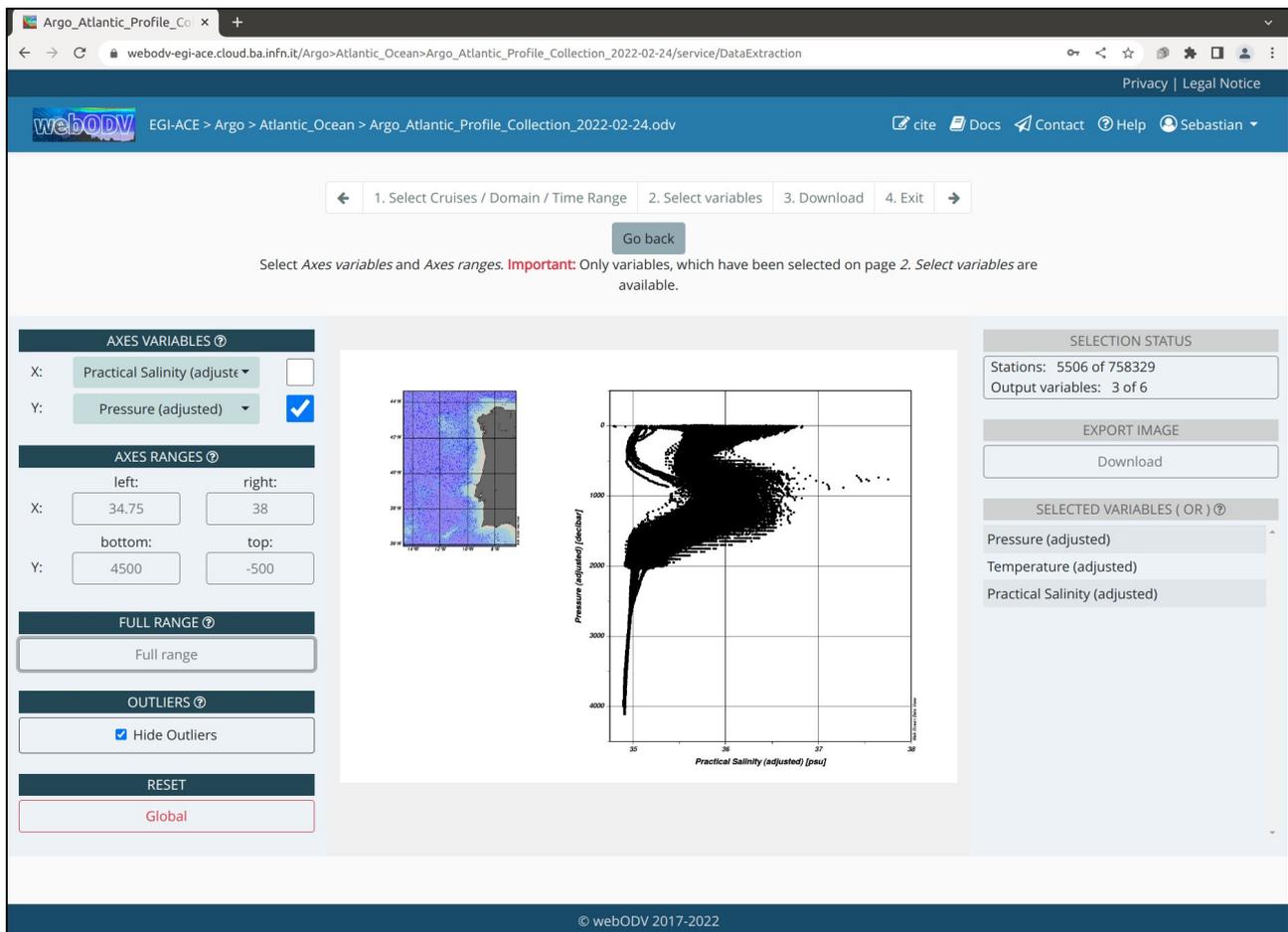


Figure 2: Data Preview.

TIME RANGE

Select a date in the format mm/dd/yyyy by directly editing within the field or use the calendar widget. Range: 01/01/1850-12/31/2024. Click on the widget's top line to switch between years, click again to switch between decades and so on.

RESET

Two reset buttons are provided. The *Page* button resets the current page to default values, whereas the *Global* button resets all settings of the Extractor back for this dataset.

2. Select variables

The second page provides the variable selection for the final download. Disabled and **unchecked** gray items indicate that these variables are not available for the station selection. Disabled and **checked** gray items are mandatory for download.

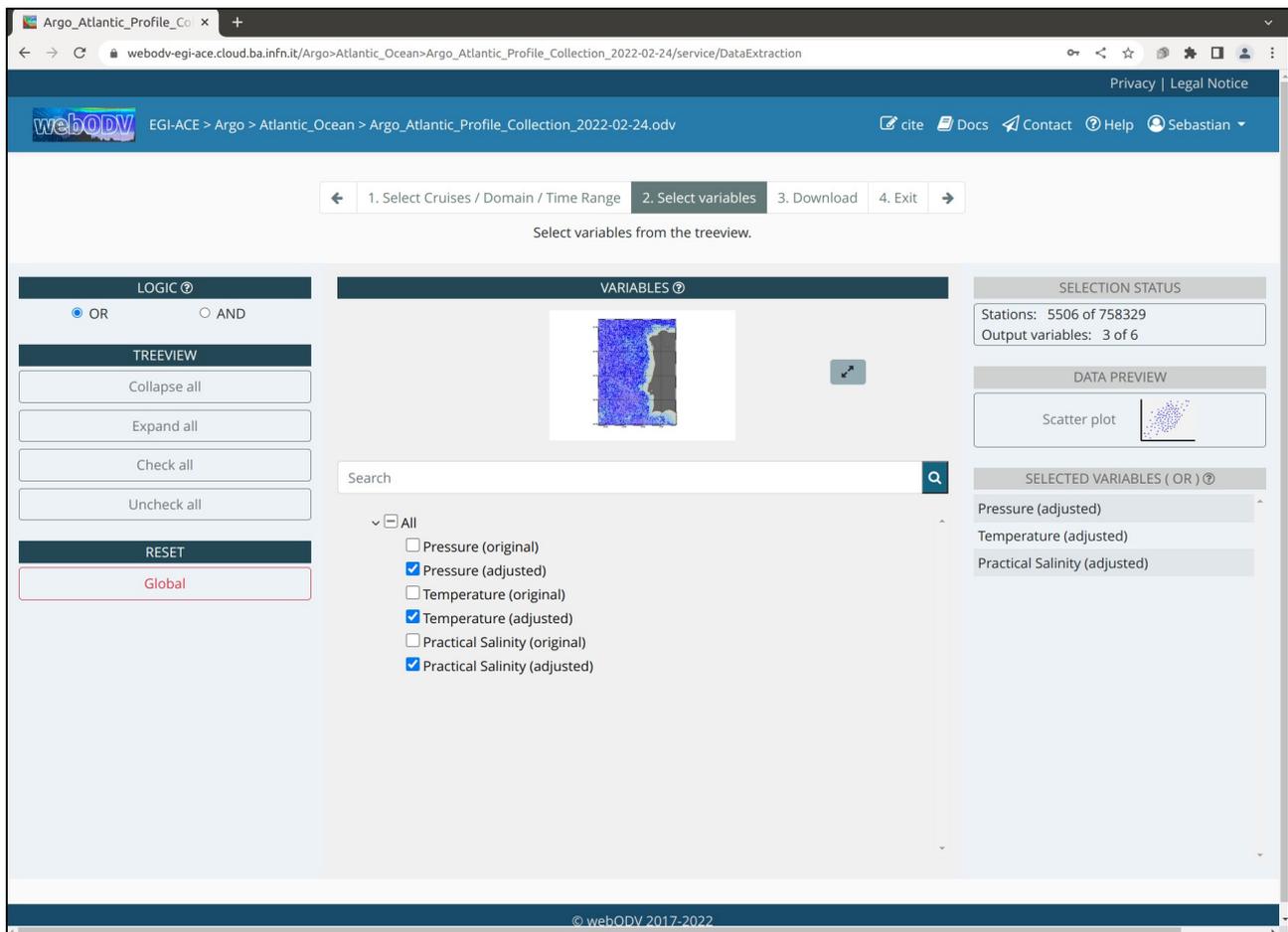


Figure 3: Select Variables.

Two modes are available for the variable selection:

- **OR mode:** In this case all stations in the map are shown, which have data for one **OR** more of the selected variables.
- **AND mode:** Only stations are shown, that have data for **ALL** of the selected variables.

Note that the stations in the map change dynamically according to the selected variables.

4. Download

The screenshot displays the 'Download' interface of the webODV system. At the top, a navigation bar includes the 'webODV' logo, the current path 'EGI-ACE > Argo > Atlantic_Ocean > Argo_Atantic_Profile_Collection_2022-02-24.odv', and user information 'Sebastian'. A progress bar below the navigation bar shows four steps: '1. Select Cruises / Domain / Time Range', '2. Select variables', '3. Download' (which is highlighted), and '4. Exit'. The main content area is titled 'Download data in different formats.' and is divided into several sections. On the left, there is a 'DOWNLOAD' section with three buttons: 'ASCII Spreadsheet (.txt)', 'ODV Collection (.odv)', and 'netCDF (.nc)'. Below this is a 'RESET' section with a 'Global' button. In the center, there is a map of the Atlantic Ocean showing a grid of data points. On the right, there is a 'SELECTION STATUS' panel showing 'Stations: 5506 of 758329' and 'Output variables: 3 of 6'. Below this is a 'DATA PREVIEW' section with a 'Scatter plot' button and a small scatter plot. At the bottom of the right panel, there is a 'SELECTED VARIABLES (OR)' section with a list of variables: 'Pressure (adjusted)', 'Temperature (adjusted)', and 'Practical Salinity (adjusted)'. The footer of the page contains the text '© webODV 2017-2022'.

Figure 4: Download.

The download page allows to download the selected data in different formats, ASCII SPEADSHEET (.txt), ODV COLLECTION (.odv) or NETCDF (.nc).

5. Exit

The last page simply brings the user back to the webODV homepage.