

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. For downloading data in the background we restrict the number of processes to **4**. 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.

1. Select cruises / domain / time range

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 webODV awi > UDASH > UDASH_2017.odv   woody ▾

1. Select Cruises / Domain / Time Range

2. Select variables

3. Download

4. Exit

Click *Zoom in* to define a sub-region, *Apply* to select the sub-region, or *Zoom out* to return to full domain. Select *Time Range* in the format mm/dd/yyyy.

CRUISES

Nothing selected ▾

MAP DOMAIN


Zoom mode


Zoom out

Full range

Global

TIME RANGE ⓘ

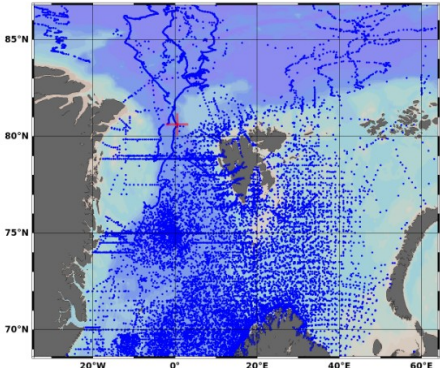
from: 01/01/2000 

to: 12/31/2010 

RESET

PAGE

GLOBAL



STATION INFO ⓘ

Accession Number	248529
Cruise	itpmerged
Station	6818 (C)
Longitude	0.535°E
Latitude	80.623°N
Date	09 November 2010
Time	18:00:00


SELECTION STATUS

Stations: 27014 of 282823
Output variables: 3 of 4

EXPORT IMAGE

Download

DATA PREVIEW

Scatter plot 

SELECTED VARIABLES (OR) ⓘ

Depth_

Temp_

Salinity_

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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.

SELECTION STATUS

This info box informs about the number of selected stations and output variables. A download of data with selecting zero stations or variables is not possible and error messages will appear in the case.




EXPORT IMAGE

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

DATA PREVIEW

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

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←

1. Select Cruises / Domain / Time Range

2. Select variables

3. Download

4. Exit

→

Go back

Select Axes variables and Axes ranges.

AXES VARIABLES ⓘ

X: Temp_ ☐

Y: Depth_ ☒

AXES RANGES ⓘ

left: -5 right: 17.5

bottom: 6000 top: 0

FULL RANGE ⓘ

Full range

OUTLIERS ⓘ

☒ Hide Outliers

RESET

Global



The visualization consists of two side-by-side plots. On the left is a map showing a geographical area with latitude and longitude coordinates. On the right is a scatter plot with 'Depth [m]' on the y-axis (ranging from 0 to 6000) and 'Temp_ [°C]' on the x-axis (ranging from -5 to 15). The plot shows a dense cluster of data points at the surface, with a few points extending down to 6000m depth.

SELECTION STATUS

Stations: 27014 of 282823
Output variables: 3 of 4

EXPORT IMAGE

Download

SELECTED VARIABLES (OR) ⓘ

Depth_
Temp_
Salinity_

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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.

STATION INFO

This dropdown menu provides information (meta data) about a clicked station (blue dot) in the map.

CRUISES

A dropdown for selecting and deselecting cruises by names. Options are to *Select All* or *Deselect All*.

Additionally a search function is provided as explained below:

The screenshot shows a dropdown menu titled 'Cruises'. Below the title is a bar indicating '9 items selected' with a downward arrow. A search input field contains the text 'GA' and has a blue 'x' icon to its right. Below the search field are two buttons: 'Select All' and 'Deselect All'. A list of cruise identifiers is displayed, each followed by a checkmark, indicating they are selected. The list includes GA01, GA02, GA03, GA04, GA06, GA10, GA11, GAc01, and GAc02. The first item, GA01, is highlighted with a dark background.

Cruise ID	Selected
GA01	✓
GA02	✓
GA03	✓
GA04	✓
GA06	✓
GA10	✓
GA11	✓
GAc01	✓
GAc02	✓

To start with the search function it makes sense to first *Deselect All*. Then the list of search results is updated in real-time while typing. A click on *Select All* checks then only the search results, which is the desired selection.

MAP DOMAIN

A click on *ZOOM MODE* activates the interactive zoom function within the map. The size of the new zoom rectangle 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.

TIME RANGE

Select a date in the format mm/dd/yyyy by directly editing within the field or use the calendar widget. Range: 01/01/1850-12/31/2021. Click on the widget's top line to switch between years, click again to switch between decades and so on.

RESET

Finally, 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 screenshot shows the webODV interface for variable selection. The top navigation bar includes the logo, 'webODV', the path 'awi > UDASH > UDASH_2017.odv', and a user profile 'woody'. Below the navigation bar is a progress bar with four steps: '1. Select Cruises / Domain / Time Range', '2. Select variables' (the current step), '3. Download', and '4. Exit'. The main content area is titled 'Select variables from the treeview.' and is divided into three panels. The left panel, 'LOGIC', has radio buttons for 'OR' (selected) and 'AND', and a 'TREEVIEW' section with buttons for 'Collapse all', 'Expand all', 'Check all', and 'Uncheck all'. Below these are 'RESET' buttons for 'Global'. The middle panel, 'VARIABLES', features a map of the North Atlantic region (60°E to 20°W, 70°N to 85°N) with a search bar and a list of variables: 'All' (expanded), 'Pressure_' (unchecked), 'Depth_' (checked), 'Temp_' (checked), and 'Salinity_' (checked). The right panel, 'SELECTION STATUS', shows 'Stations: 27014 of 282823' and 'Output variables: 3 of 4'. Below this is a 'DATA PREVIEW' section with a 'Scatter plot' button and a small plot. At the bottom, 'SELECTED VARIABLES (OR)' lists 'Depth_', 'Temp_', and 'Salinity_'.

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

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AWI webODV awi > UDASH > UDASH_2017.odv

woody

1. Select Cruises / Domain / Time Range

2. Select variables

3. Download

4. Exit

Download data in different formats.

DOWNLOAD

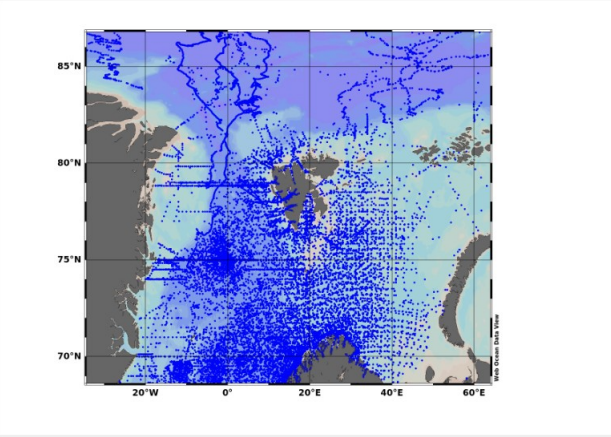
ASCII Spreadsheet (.txt)

ODV Collection (.odv)

netCDF (.nc)

RESET


Global



SELECTION STATUS

Stations: 27014 of 282823
Output variables: 3 of 4

DATA PREVIEW

Scatter plot 

SELECTED VARIABLES (OR) ⓘ

Depth_

Temp_

Salinity_

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

The data will be automatically downloaded into the users private workspace. A confirmation email will be sent to your AWI address. In the case of a .odv download, the data are immediately available in webODV.

5. Exit

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