



Growing
ideas
through
networks

Cost Action CA 18237

EUdapho
base

Edaphobase Portal - Use and Functions

Online Training Course 23 March, 2021

David Russell, Stephan Lesch, Sebastian Rick (Senckenberg, Germany)

Edaphobase Portal

Functionality and Usage

Block I

- I. Expectations on a soil-biodiversity database
- II. Getting started
- III. Filtering for data; mapping occurrences

Exercises 1 - 4

Block II

- IV. Categorizing (selected) data & Map Views

Exercise 5

- III. Creating and downloading (flat) tables
- IV. Creating contingency tables (= matrices)

Exercise 6

Block III

- V. Saving and (re-) loading “projects”, maps
- VI. Further Information
- VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

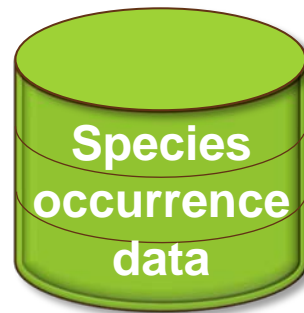
All databases are structured
according to their **goals**
how the data is to be (re-)used

Pan-European Soil-Biodiversity Data Warehouse:

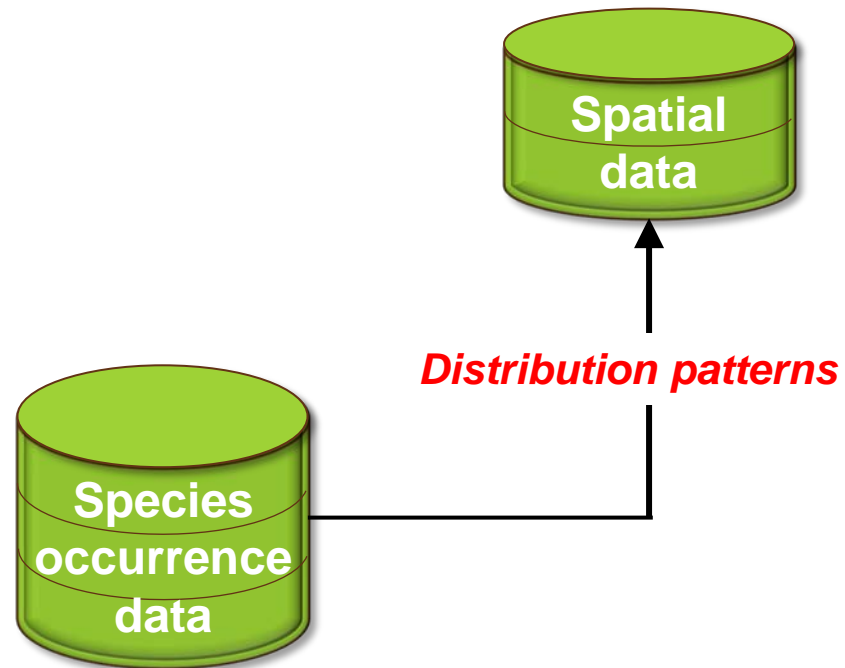
→ understand soil biodiversity ecology (s.l.)

- Distributions (and the *drivers*)
- (Species') niche space
- Soil-biodiversity of areas or habitat types
- *Soil-biodiversity functional roles*

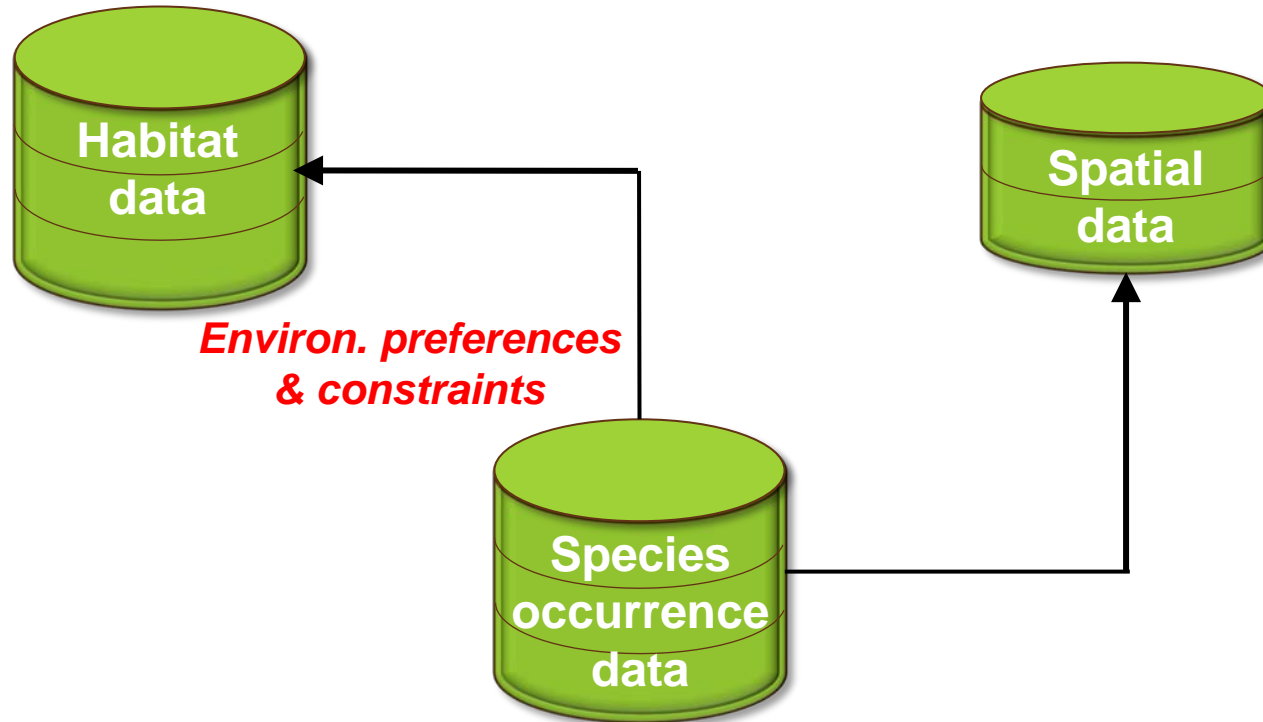
Data → answerable questions:
(“Data → Knowledge”)



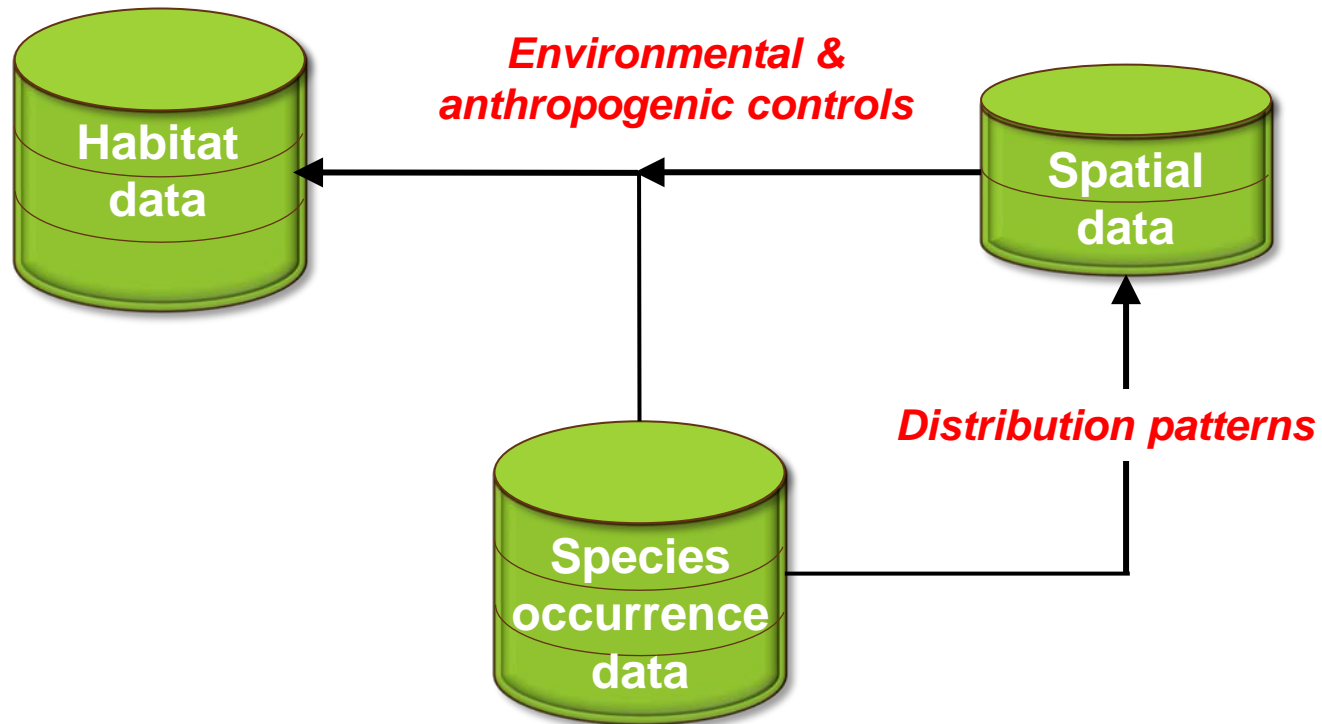
Data → answerable questions :



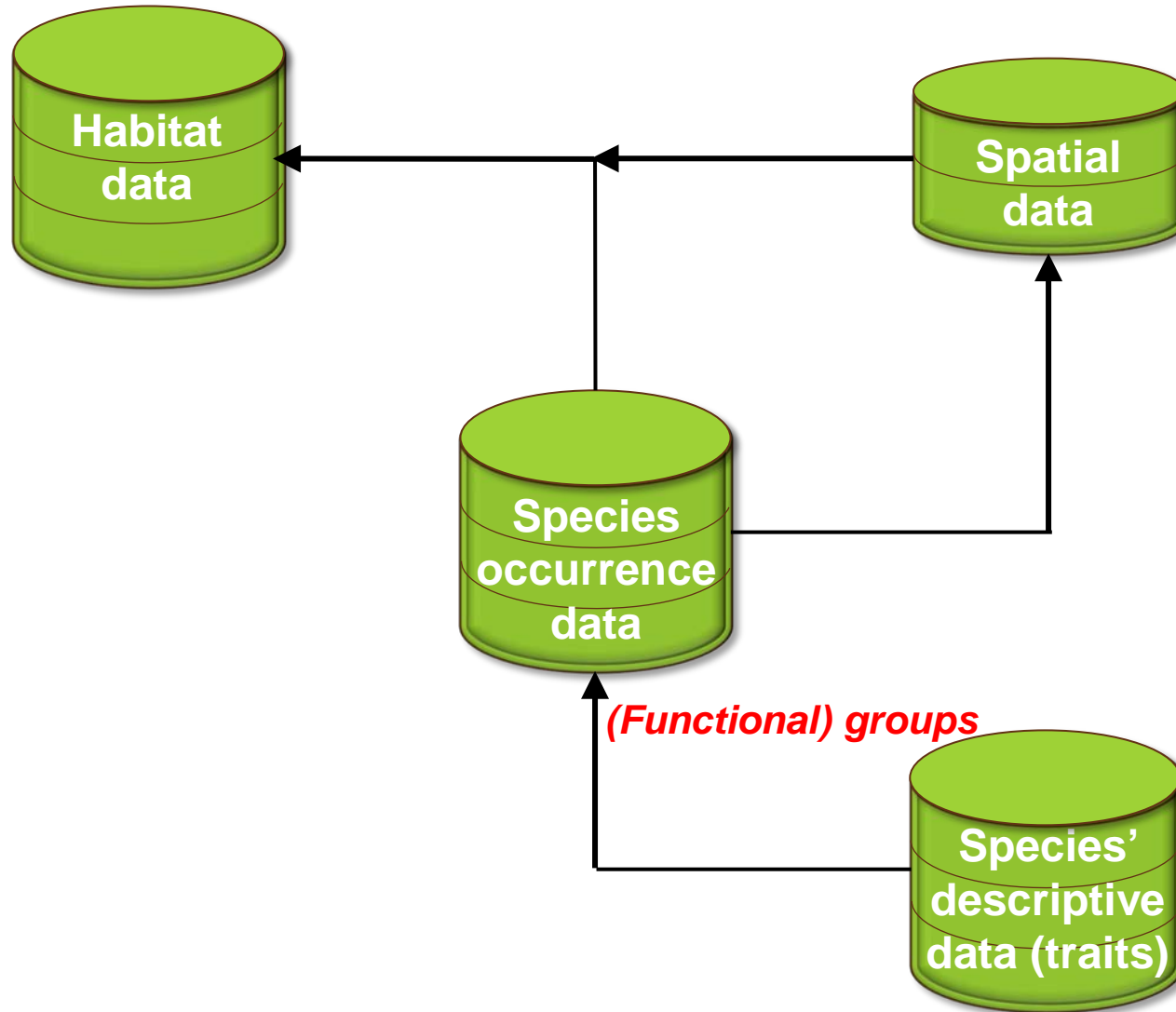
Data → answerable questions :



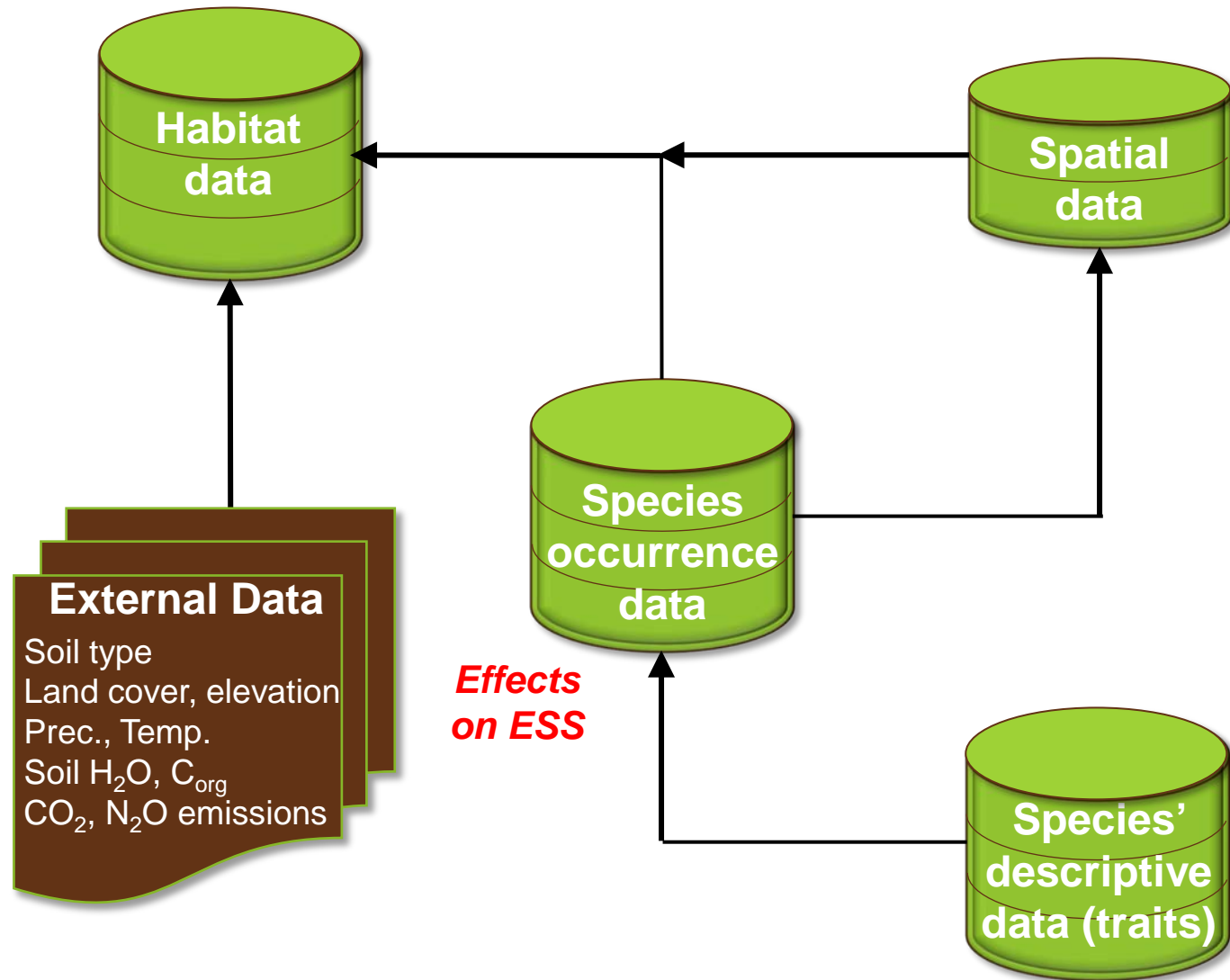
Data → answerable questions :



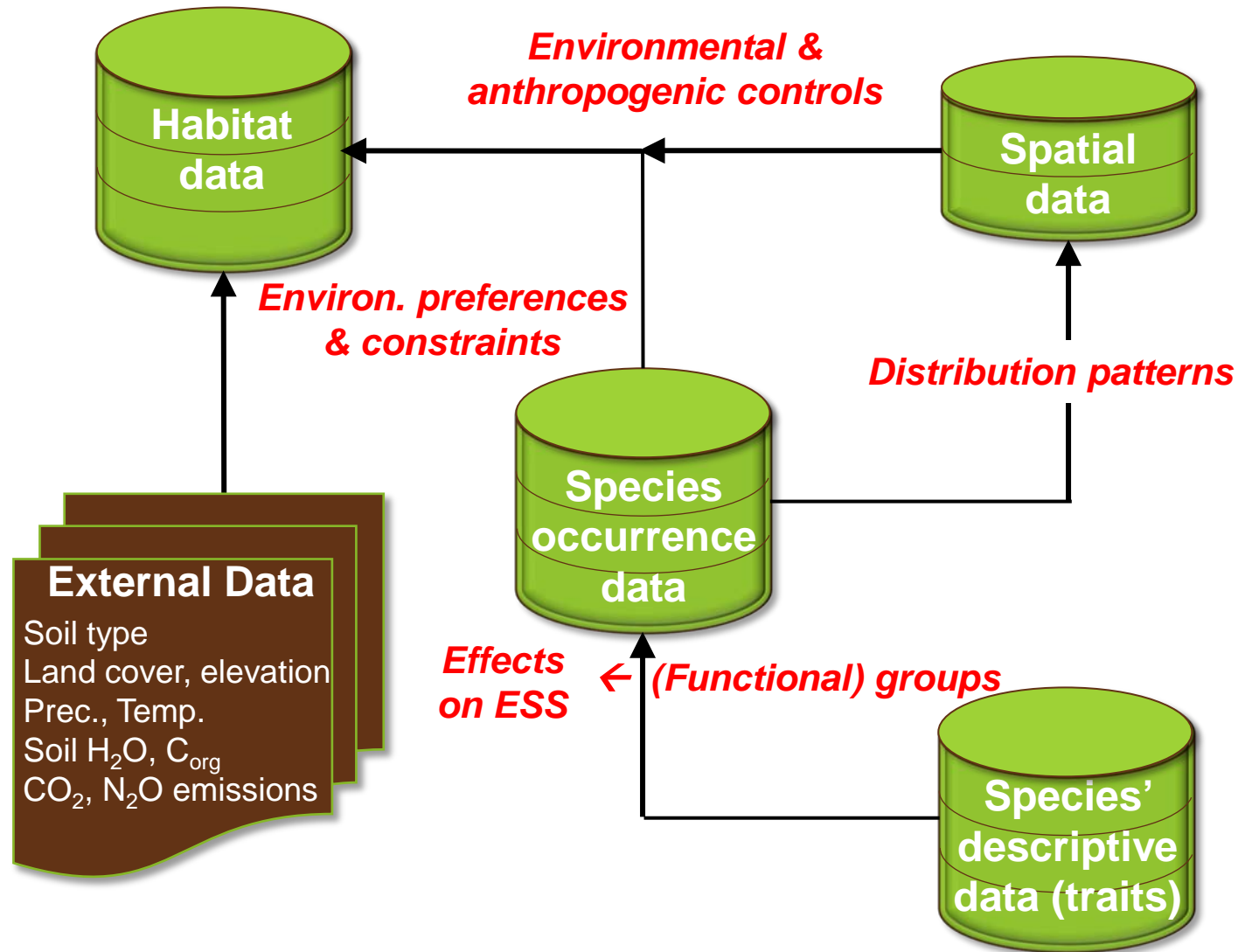
Data → answerable questions :



Data → answerable questions :



Data → answerable questions :



Data → answerable questions :

This Webinar:

→ How does the Edaphobase Data Platform
(currently) provide this?



Edaphobase Portal

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VII. In brief: Assessment tools (“EdaphoStat”)

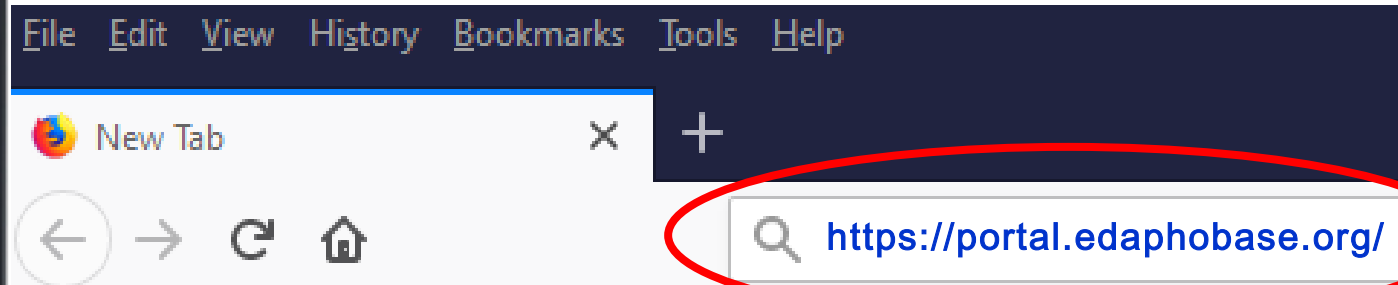
Exercise 7

Getting started:

The Edaphobase Data-Query Portal

- Browser-based application
- Publically available, open access

Access via your browser:



The Edaphobase Data-Query Portal

The screenshot shows the Edaphobase Data-Query Portal interface. The browser address bar displays <https://portal.edaphobase.org>. The page title is "edaphobase Data-Query Portal #210120". The user is logged in as "drussell".

Data filters

383906 observations at 27417 localities found in Edaphobase

Show sampling sites

Raw data table

Matrices

Analyses

Welcome to Edaphobase

The **Edaphobase** Query Portal is an information system (data warehouse) dealing with the distribution and ecological preferences of soil animals. It is freely accessible via the internet (<http://portal.edaphobase.org/>). The Query Portal can be used with almost any browser, but has been optimized for Mozilla Firefox.

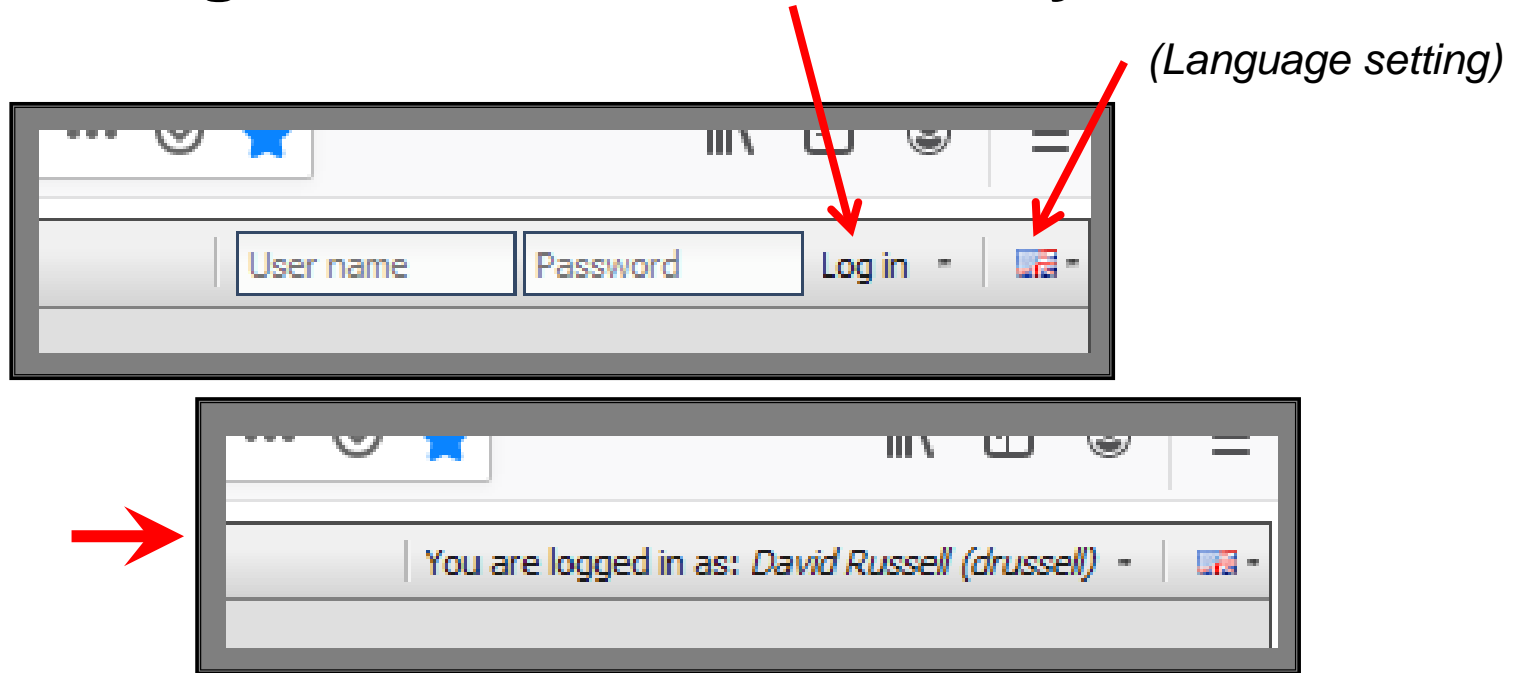
The Edaphobase database collects and merges existing data on soil organisms provided by different institutions and researchers dealing with this topic. Data acquired from literature and collections complete these data sets. These data are linked with ecological background information from habitat data (e.g., geography, soil parameters, habitat type, climate).

So far, Edaphobase provides data on centipedes (Chilopoda), millipedes (Diplopoda), springtails (Collembola), potworms (Enchytraeidae), earthworms (Lumbricidae), nematodes (Nematoda), gamasine and oribatid mites (Gamasina and Oribatida), and woodlice (Isopoda). The focus of data collection and analysis is currently on data from Germany and its neighboring countries (including collection material from other countries stored in German collections).

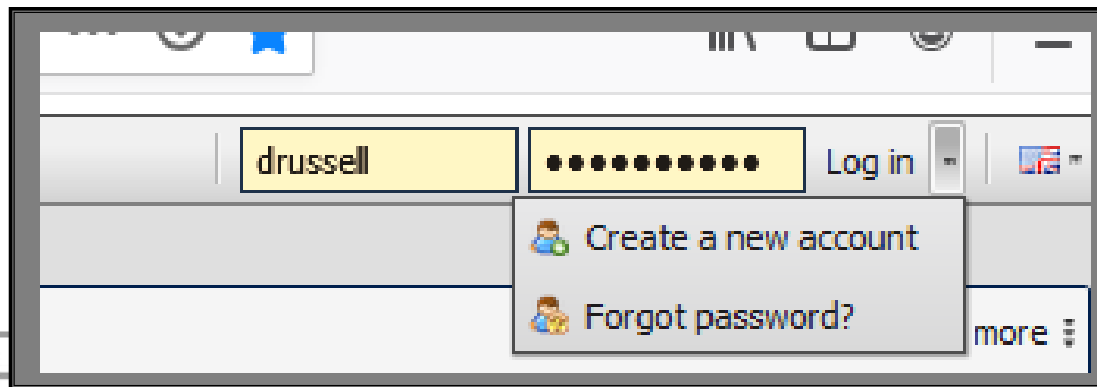
For detailed information on the use of Edaphobase, including guidance manuals, please see the Help menu item.

Edaphobase is a joint research project of the Senckenberg Museum of Natural History Görlitz, the State Museum of Natural History Karlsruhe, ECT Oekotoxikologie GmbH Flörsheim, the Institute for Environmental Research (Bio V) at the RWTH Aachen University, gaicac Research Institute for Ecosystem Analysis and Assessment Aachen, and the FU Berlin, Botanical Garden and Botanical Museum Berlin-Dahlem. Edaphobase is funded by the Federal Ministry of Education and Research (funding codes 01LI0901A

Log in for best functionality



Create an account (if not already):



Create an Edaphobase Account

File Filter data Create analysis Extras Tools Tutorials Help edaphobase Data-Query Portal #210120

Data filters

383906 observations at 27417 localities found in Edaphobase

Show sampling sites

Raw data table

Matrices

Analyses

Create a new account

Personal details

Forename:

Surname:

Institution:

Account details

Username:

Email address:

Password:

Repeat password:

Please note: all fields are required.

OK

→ “activation e-mail“

Overview: Data-Query Portal

The screenshot displays the Edaphobase Data-Query Portal interface. The browser address bar shows the URL <https://portal.edaphobase.org>. The page title is "edaphobase Data-Query Portal #210120". The user is logged in as "David Russell (drussell)".

The interface includes a navigation menu with options: File, Filter data, Create analysis, Extras, Tools, Tutorials, and Help. The main content area features a map of Europe and surrounding regions, with a toolbar for "Add-on map", "Sampling sites", and "Tools". The map shows various countries and cities, including London, Berlin, Moscow, and Istanbul.

On the left side, there are two panels: "Data filters" and "Analyses". The "Data filters" panel shows a search bar and a list of 383906 observations at 27417 localities found in Edaphobase. Below this, there are buttons for "Show sampling sites", "Raw data table", and "Matrices". The "Analyses" panel is currently empty.

The bottom of the interface shows a scale bar (0 to 200 km) and the OpenStreetMap logo.

Overview: Data-Query Portal

The screenshot displays the Edaphobase Data-Query Portal interface. The browser address bar shows the URL <https://portal.edaphobase.org>. The main menu is circled in red and includes: File, Filter data, Create analysis, Extras, Tools, Tutorials, and Help. A red box labeled "Menu" points to this menu. On the left sidebar, the "Data filters" section is circled in red and contains the text: "383906 observations at 27417 localities found in Edaphobase". Below this are buttons for "Show sampling sites", "Raw data table", and "Matrices". The "Analyses" section is also visible. A red box labeled "View data extract (maps, tables)" points to the map area. The main content area shows a map of Europe with various countries and regions labeled. The bottom right corner of the map displays coordinates: 48.37002, 9.78508.

**Select
data extract
(filters)**

**View
data extract
(maps, tables)**

**Categorize
data extract
(grouping)**

Edaphobase Portal

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Exercise 5

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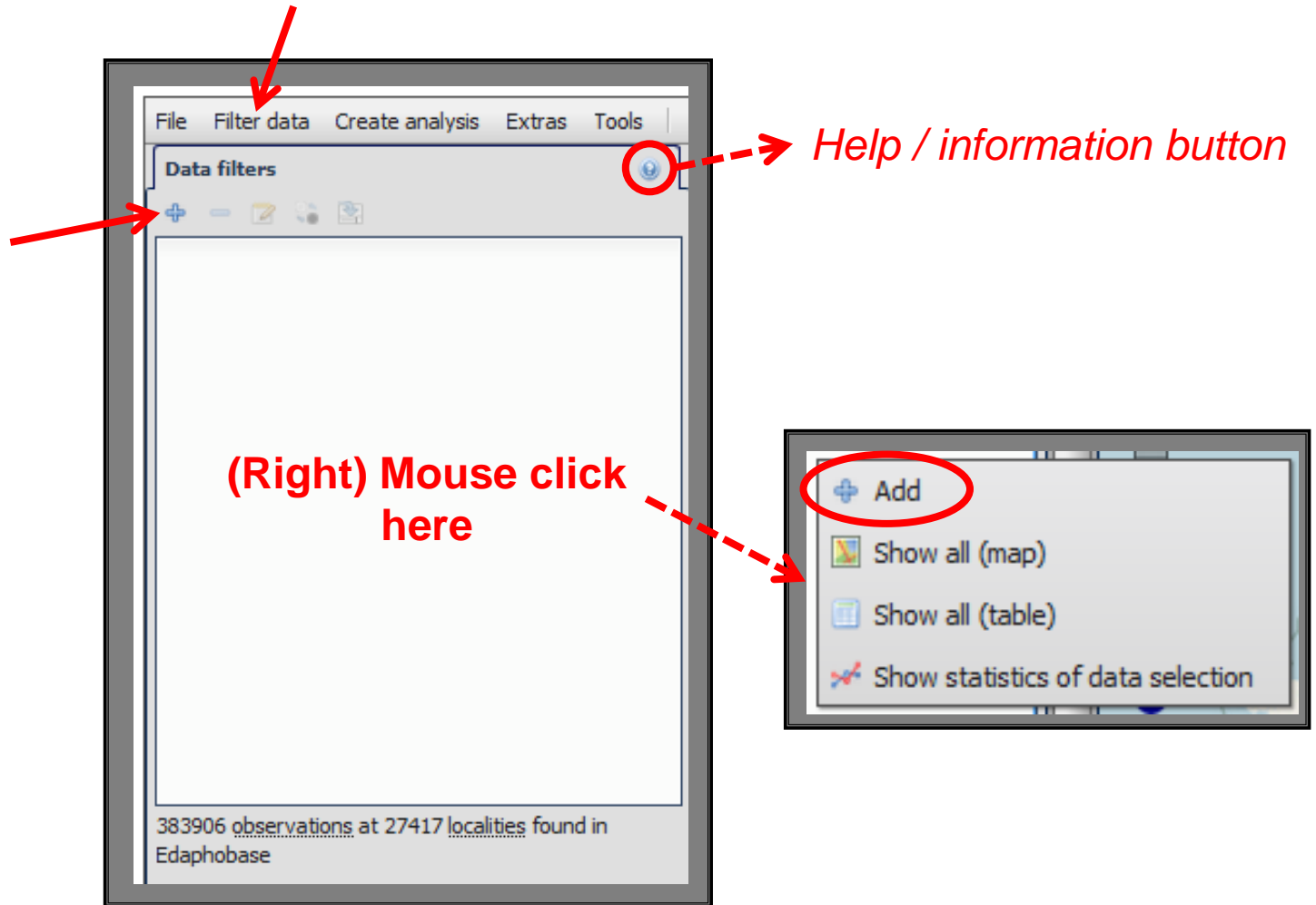
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Exercise 7

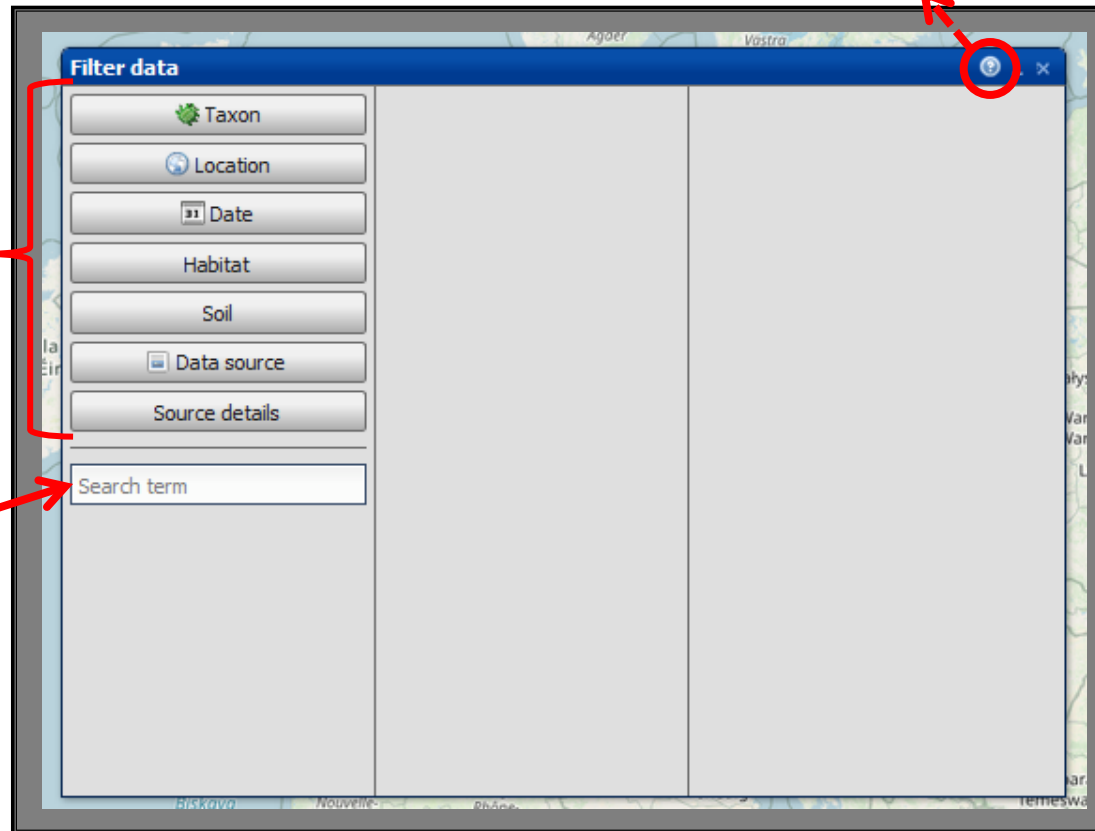
First step:

select (filter) an extract from the entire DB dataset



Data filter (selection) pop-up window

Help / information button

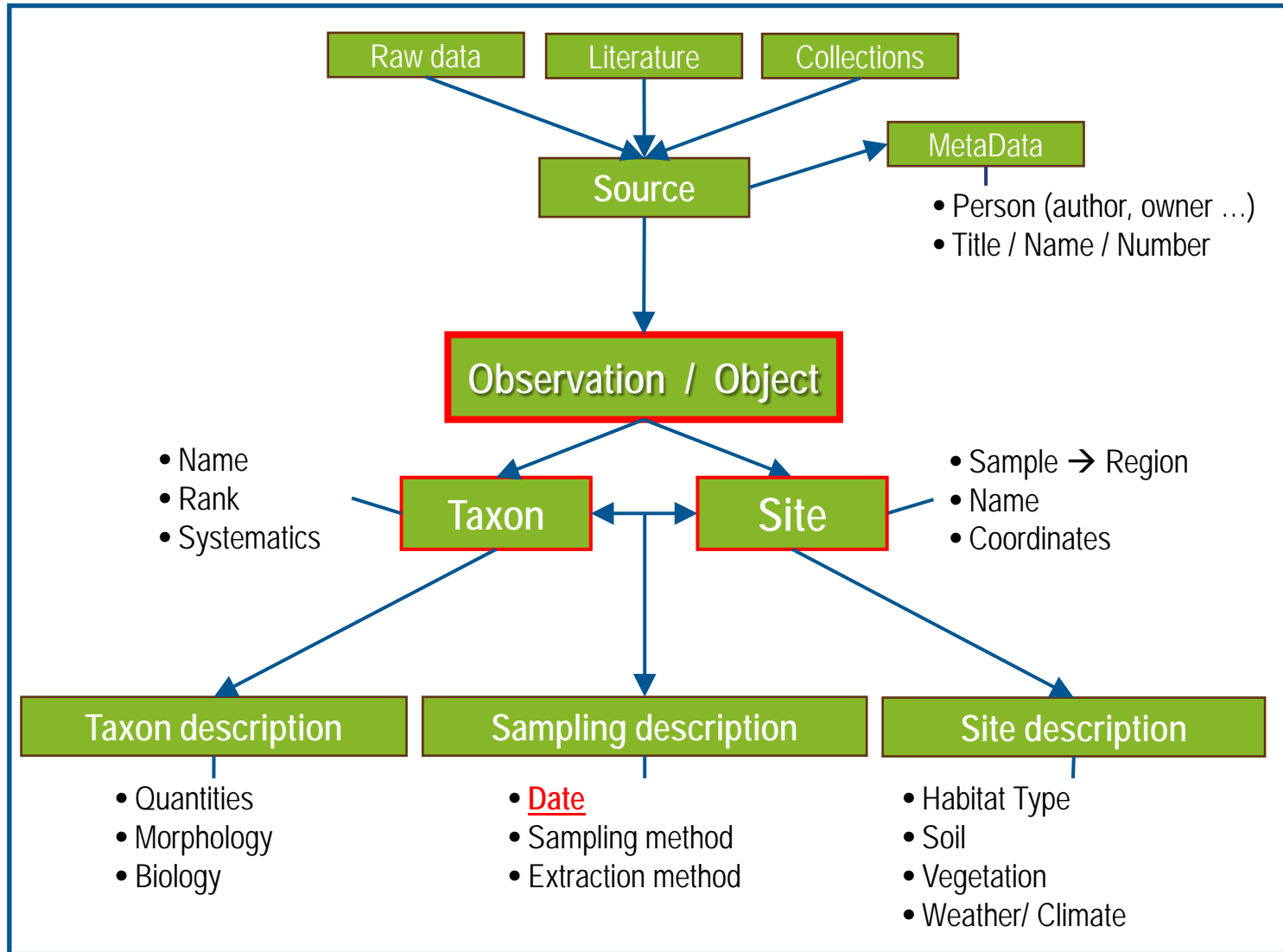


Data „categories“

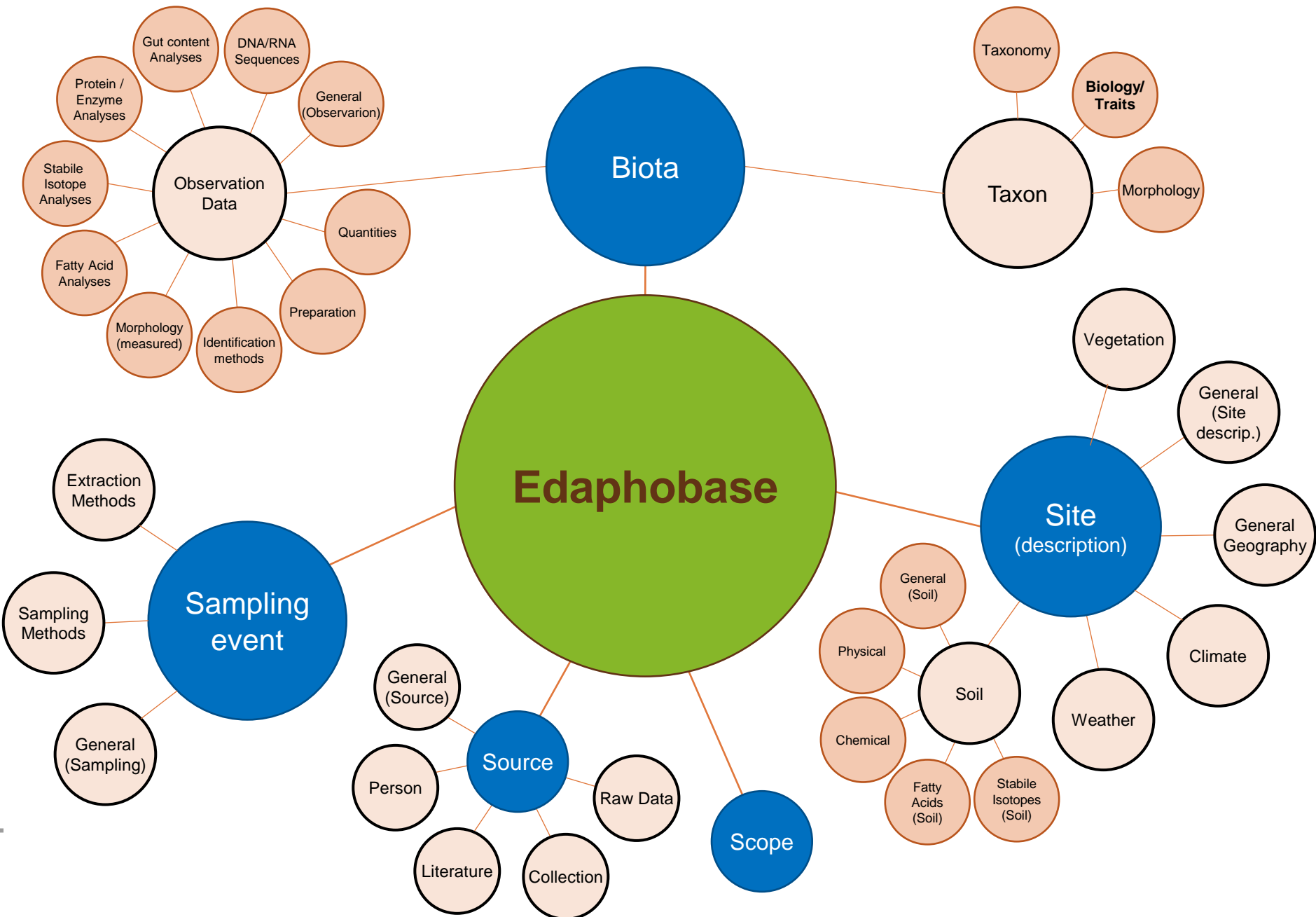
Enter specific data field

Edaphobase Overview

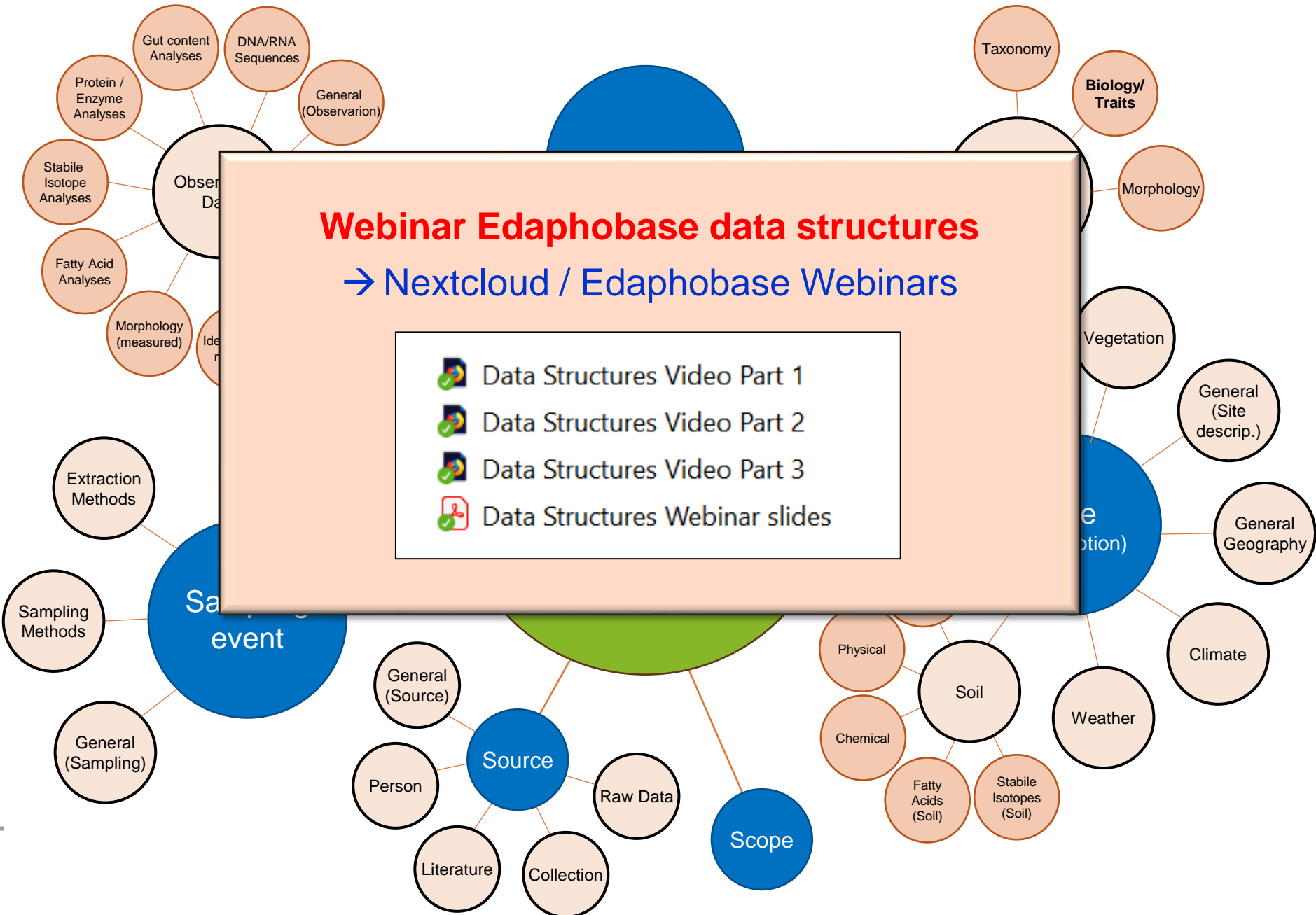
General data-model concept



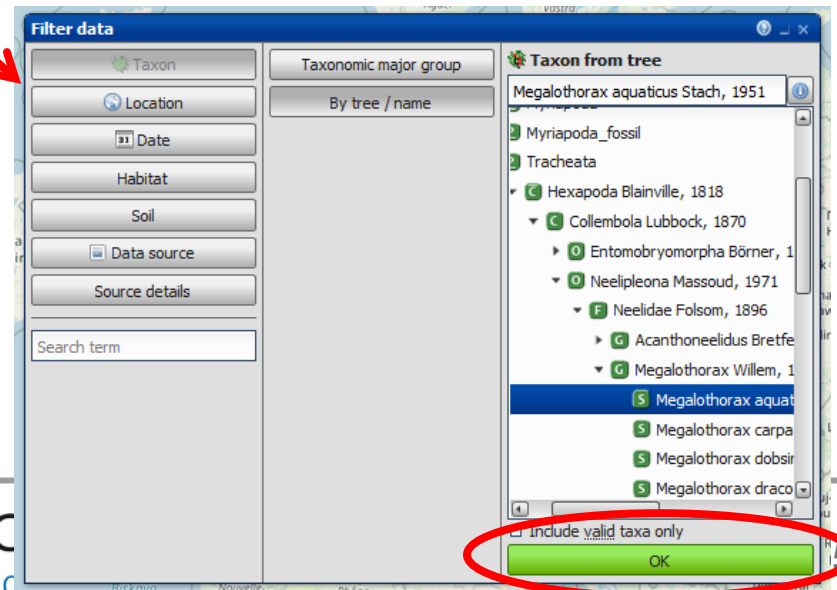
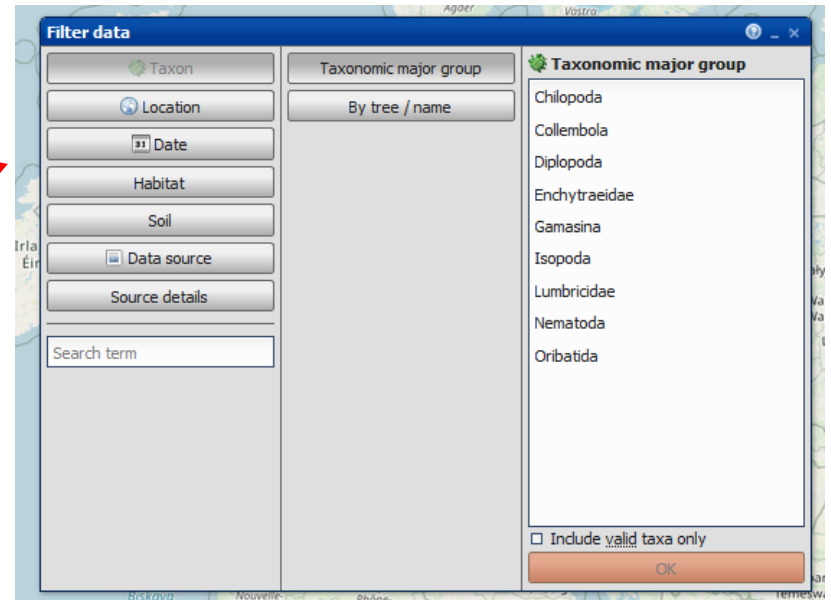
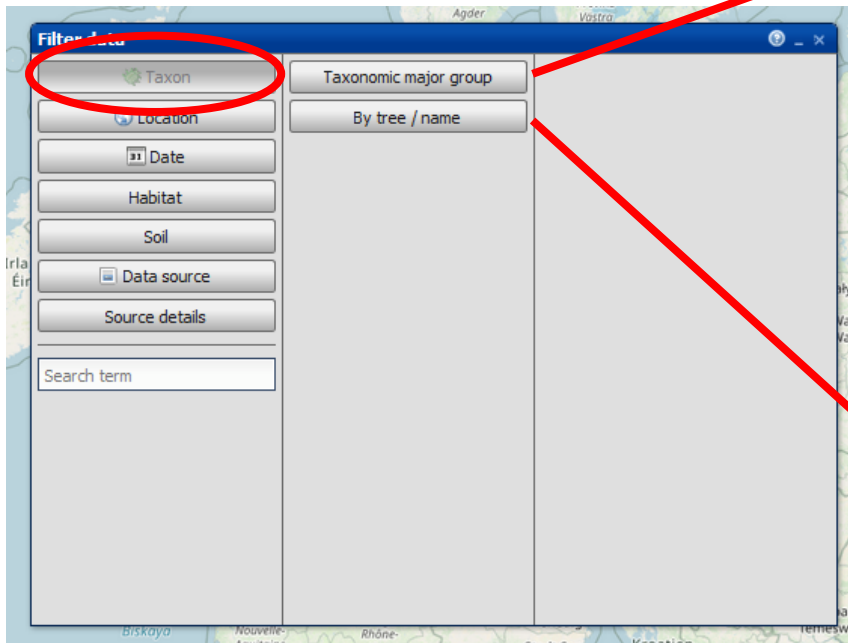
Edaphobase data structures and linkages



Edaphobase data structures and linkages



Filter data for Taxa



Filter data for Taxa

The screenshot shows the edaphobase Data-Query Portal interface. The top navigation bar includes 'File', 'Filter data', 'Create analysis', 'Extras', 'Tools', 'Tutorials', and 'Help'. The user is logged in as 'David Russell (drussell)'. The main area is divided into a left sidebar and a central map view.

Data filters sidebar:

- A red circle highlights the text 'Collembola (107300 | 2668)'. Red arrows point from the words 'records' and 'sites' to the numbers 107300 and 2668, respectively.
- Below this, another red circle highlights the text '107300 observations at 2668 localities found in Edaphobase'.
- Buttons for 'Show sampling sites', 'Raw data table', and 'Matrices' are visible.

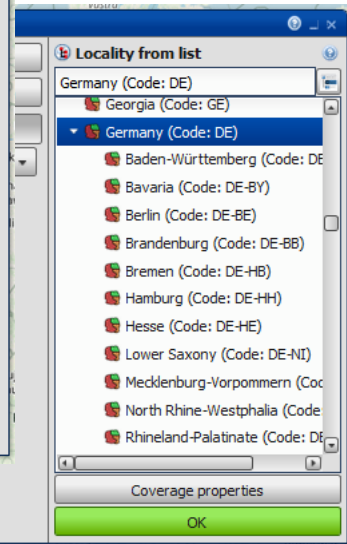
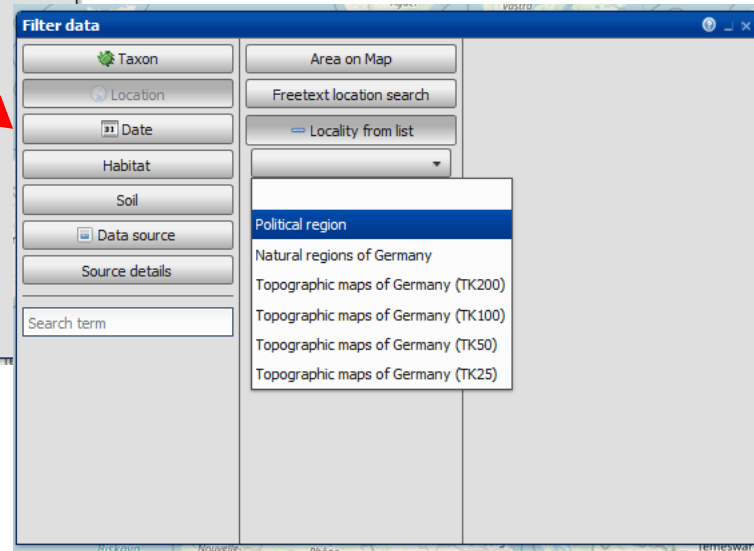
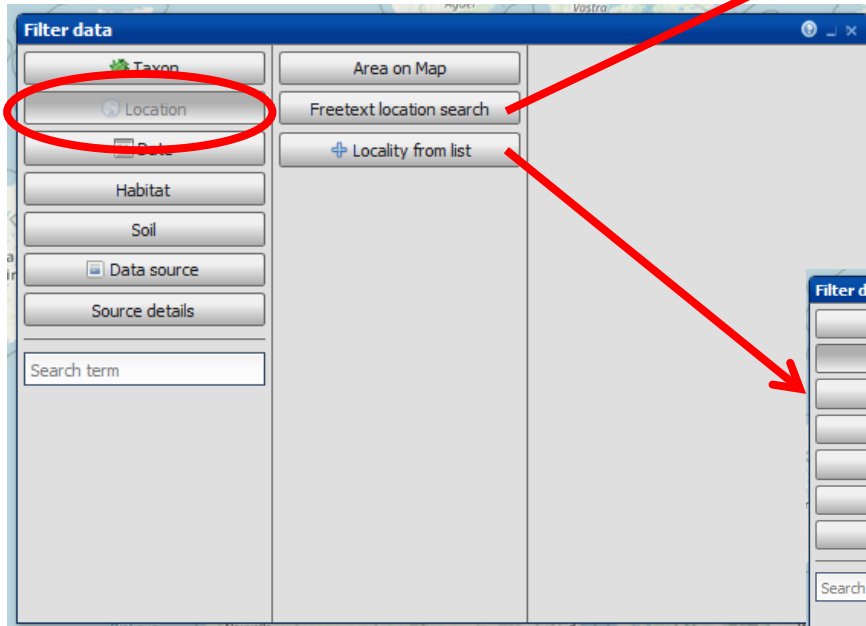
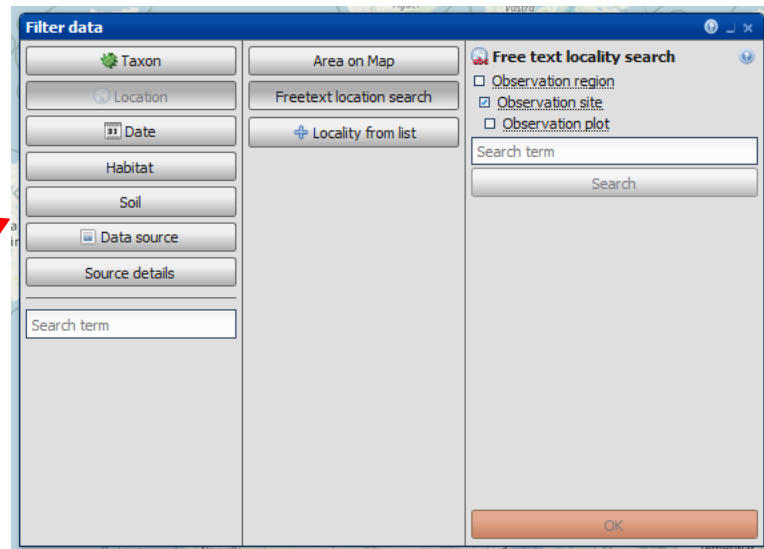
Filter data dialog:

- The dialog is titled 'Filter data' and has a close button (X) circled in red.
- It features a 'Taxon' filter button and a 'Taxonomic major group' dropdown menu.
- The 'Taxonomic major group' dropdown is open, showing a list of taxa: Chilopoda, **Collembola** (highlighted), Diplopoda, Enchytraeidae, Gamasina, Isopoda, Lumbricidae, Nematoda, and Oribatida.
- There is an 'Include valid taxa only' checkbox and an 'OK' button.

Map view:

- The map shows a geographical view of Europe and surrounding regions.
- A scale bar at the bottom left indicates 200 km and 100 mi.
- Coordinates at the bottom right are 59.76883; -19.13093.

Filter data for Location



Obtain Information on the selected (filtered) data

The screenshot shows the Edaphobase Data-Query Portal interface. On the left, the 'Data filters' panel is visible, with 'Collembola (107300 | 2668)' and 'Germany (Code: DE) (287194 | 16311)' selected and circled in red. Below the filters, a summary states '87641 observations at 1878 localities found in Edaphobase', also circled in red. A red arrow points to the 'Show sampling sites' button, and another red circle highlights the 'Data selection statistics' icon. The main panel displays 'Basic dataset stats' and a table of 'Used information fields'.

Basic dataset stats

Number of data records	87641
Number of documents	6462
Number of taxa	1046
Number of sampling sites	1878

Used information fields

Information field	Number of data records
Name of geographical point	87641
Point with Hierarchy	87641
Sample exists	87641
Country	87637
Latitude	87604
Longitude	87604
Radius [m]	87430
District	87240
Observation date (Sampling event)	85501
Observation area	85338
CORINE Land Cover (CLC)	84961
Sampling / observation method	84523
Observation site	83283
Habitat type (German Bfi)	83270
EUNIS habitat type classification	76717
Coordinate source	74327
Scope of sampling	74157
site identifier	72664
Device dimensions [A in cm ²]	68610
Altitude [m]	67341
Extraction method	66580
Is Experimental site	66163
Original quotation (vegetation)	64203
Original quotation (sampling description)	62537
Sampling depth (fauna) [cm]	62263
Sample volume [cm ³]	61231
Count in sample(s)	60676

Included (meta)data

Map occurrences of selected (filtered) data

Edaphobase Data-Query Portal

https://portal.edaphobase.org

File Filter data Create analysis Extras Tools Tutorials Help

edaphobase Data-Query Portal #210120

Data filters

Taxon

Collembola (107300 | 2668)

Locality

Germany (Code: DE) (287194 | 16311)

3541 observations at 1878 localities found in Edaphobase

Hide sampling sites

Raw data table

Analyses

Map view

Add-on map

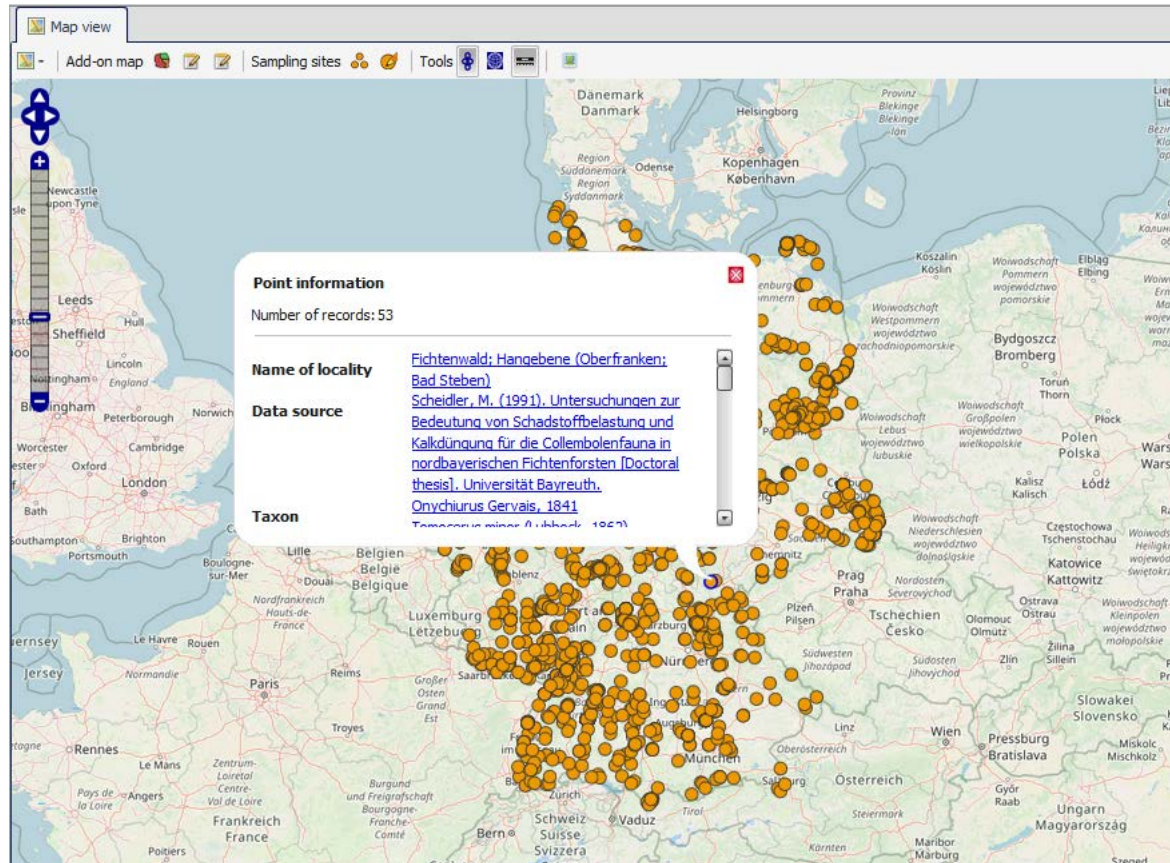
Sampling sites

Tools

17:09:02 - Since there are no coordinates given for 5 sampling sites they cannot be displayed on the map.



Click on a „site point“ → information on the data of that site



Let's do it !

Exercise 1)

Select Filter: Taxon → Major Group → „Collembola“

Select Filter: Location → Political Region → „Germany“
(notice decrease in data! [filters = “And” linked!])

Show sites of occurrence in Map View

Uncluster mapped points

Exercise 2)

Delete „Germany“ from the selected filters (“-” in Data-Filter window)

Add Location → Political Region → „Denmark“ to the selected filters

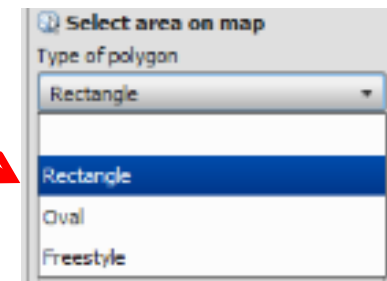
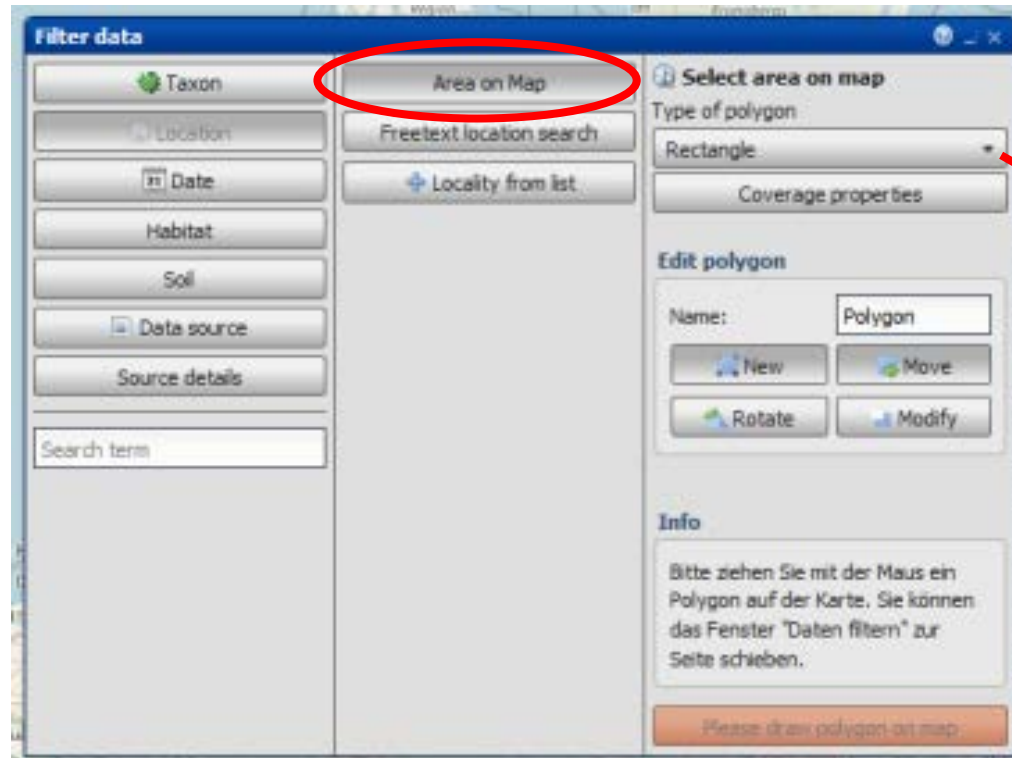
Show sites of occurrence in Map View

Add Location → Political Region → „Germany“ to the selected filters
(notice increase in data! [filters = “Or” linked!])

Show sites of occurrence in Map View

Filter data for Area (in the map)

First, set polygon type



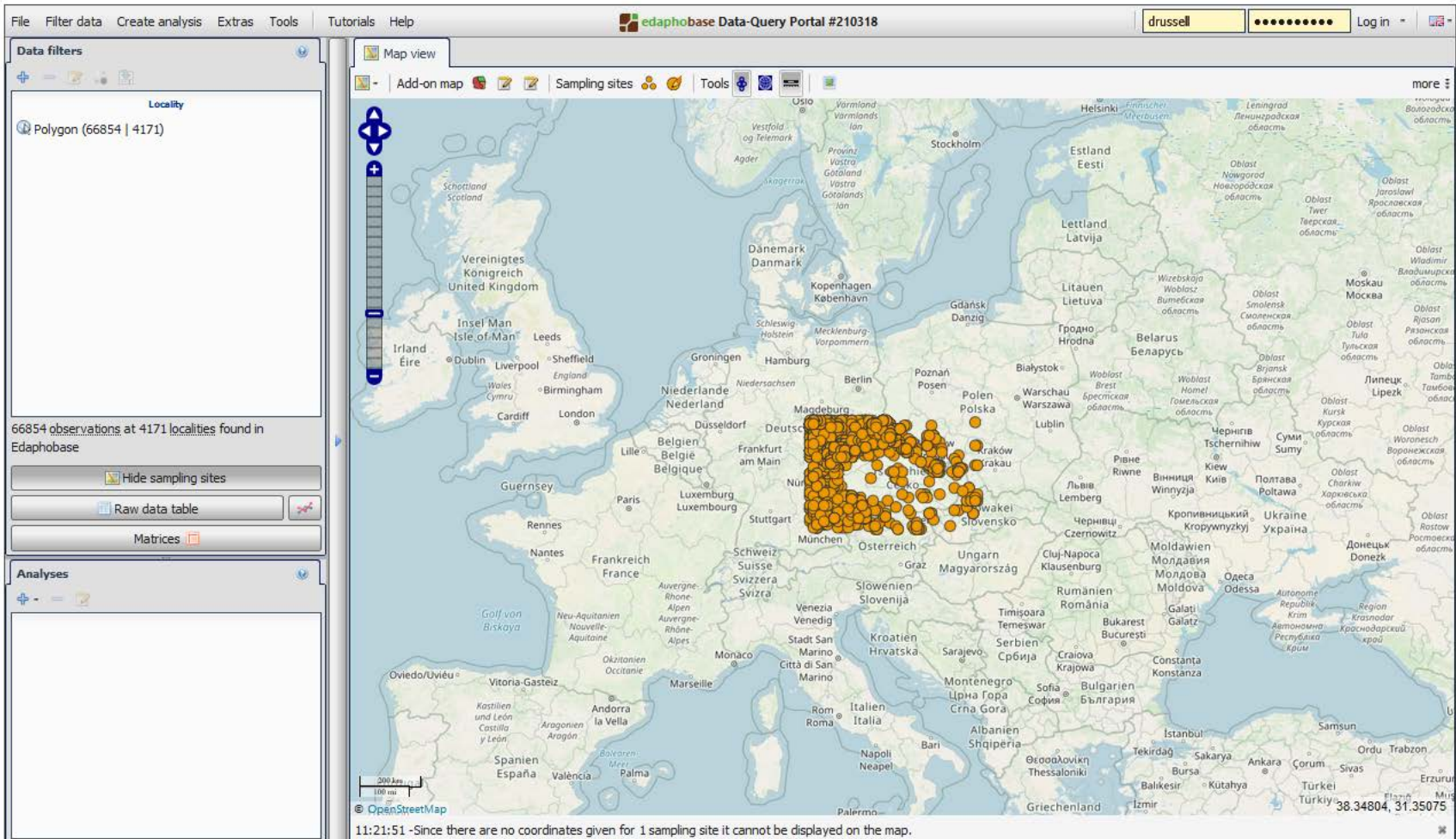
Filter data for Area (in the map)

Then, draw polygon on map with mouse / “OK”

The screenshot displays the edaphobase Data-Query Portal interface. The main map shows a geographical view of Central Europe, with a black rectangle drawn over a region encompassing parts of Poland, Czechia, and Slovakia. A black arrow points to the bottom-right corner of this rectangle. A 'Filter data' dialog box is overlaid on the map, with the 'Area on Map' section active. This section includes a 'Select area on map' button, a 'Type of polygon' dropdown menu set to 'Rectangle', and a 'Coverage properties' button. Below this, the 'Edit polygon' section contains a 'Name' field with 'Polygon' entered, and buttons for 'New', 'Move', 'Rotate', and 'Modify'. An 'Info' section at the bottom of the dialog provides instructions in German: 'Bitte ziehen Sie mit der Maus ein Polygon auf der Karte. Sie können das Fenster "Daten filtern" zur Seite schieben.' and a green 'OK' button. The left sidebar of the portal shows various filter categories like Taxon, Location, Date, Habitat, Soil, and Data source. The top navigation bar includes 'File', 'Filter data', 'Create analysis', 'Extras', 'Tools', 'Tutorials', and 'Help'. The user's name 'drussell' and a 'Log in' button are visible in the top right corner.

Filter data for Area (in the map)

Result



Let's do it !

Exercise 3)

Select Filter: Taxon → Major Group → „Collembola“

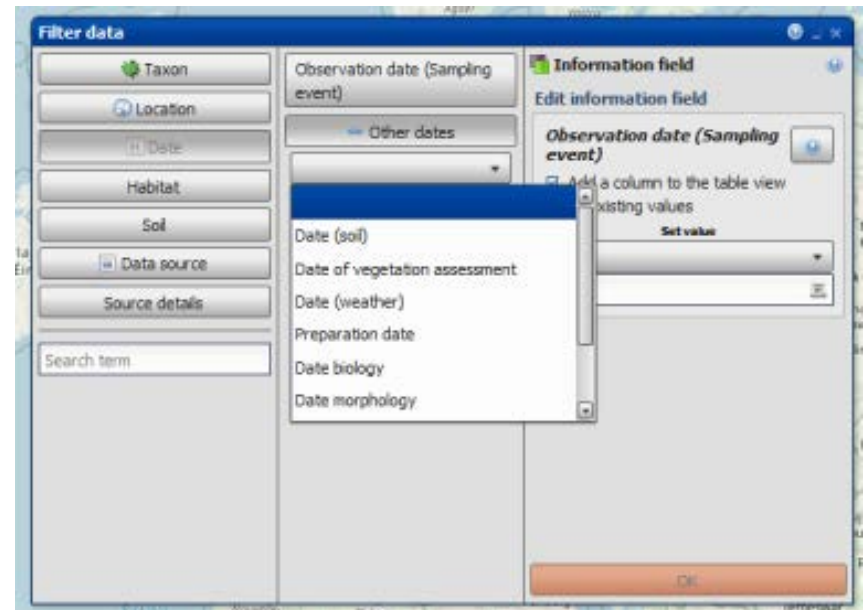
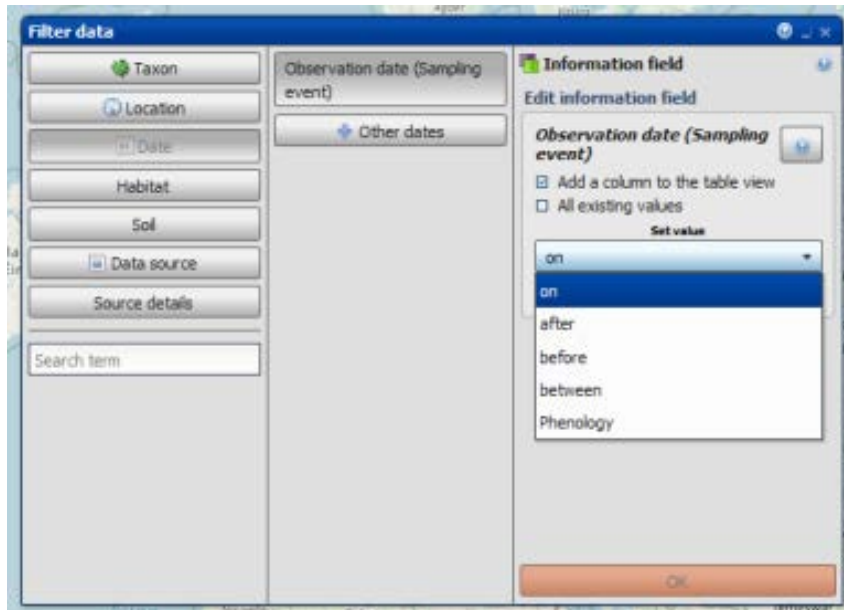
Add Location → Area on map → „freehand polygon“ to the selected filters
(i.e., select coastal areas around Baltic Sea)

Show sites of occurrence in Map View

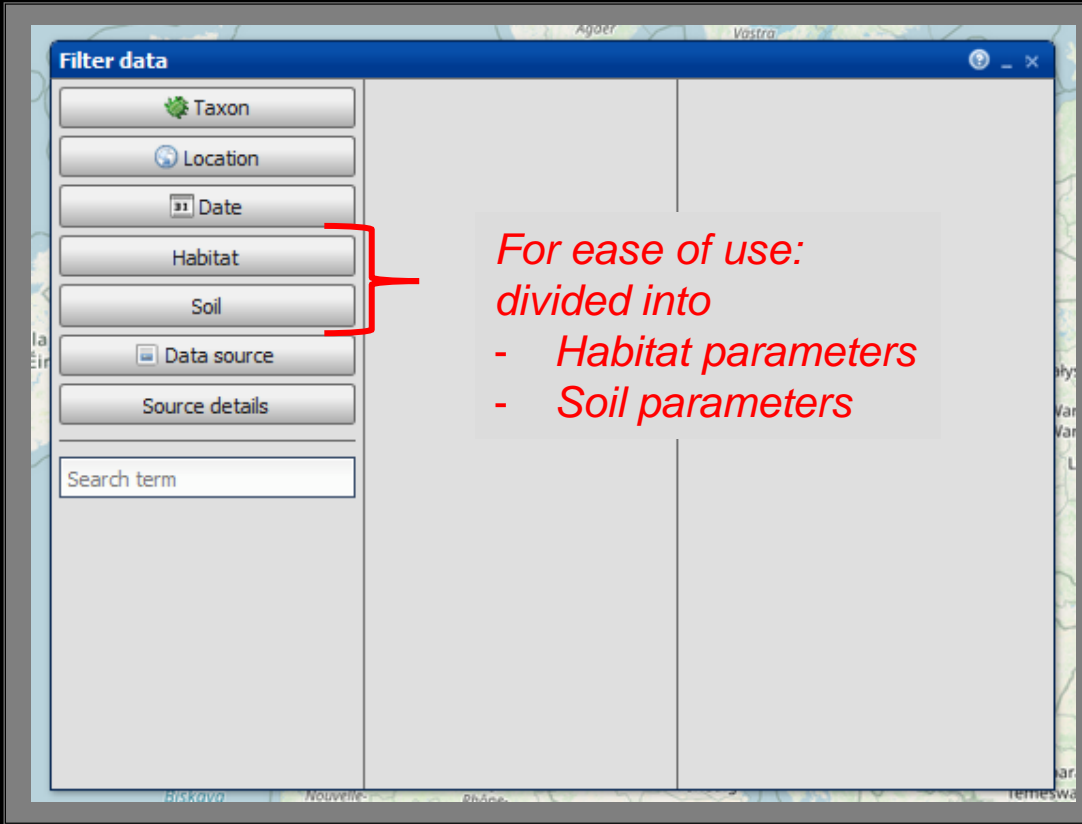
- **Note:**
- the map view can be zoomed in and out via your mouse wheel or via the zoom bar:
 - the map can be moved via „drag and drop“



Filter data for Dates



Filter data for Habitat conditions



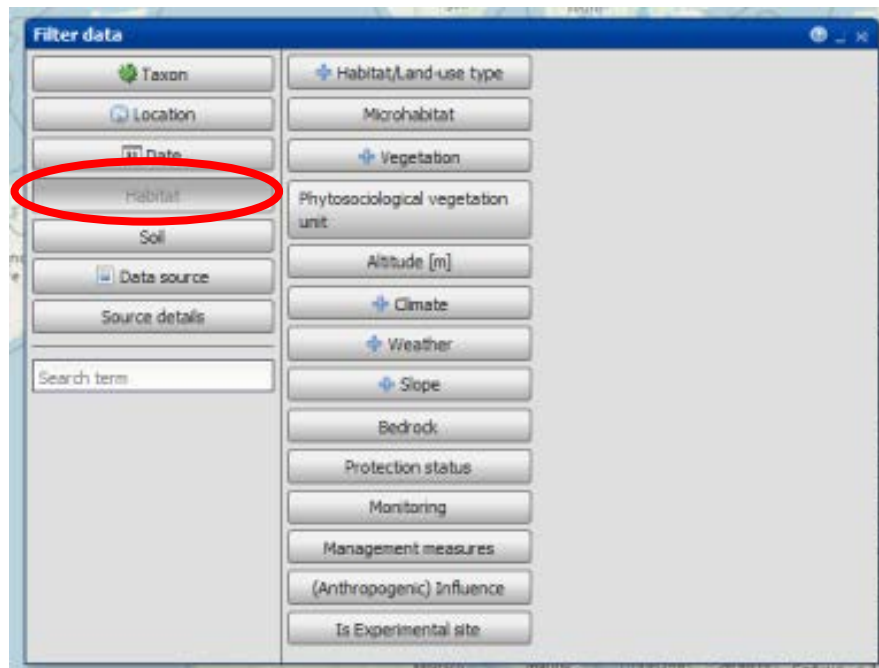
The screenshot shows a 'Filter data' window with a sidebar containing several filter categories: Taxon, Location, Date, Habitat, Soil, Data source, and Source details. A red bracket groups the 'Habitat' and 'Soil' buttons. A text box to the right of the window contains the following text:

*For ease of use:
divided into*

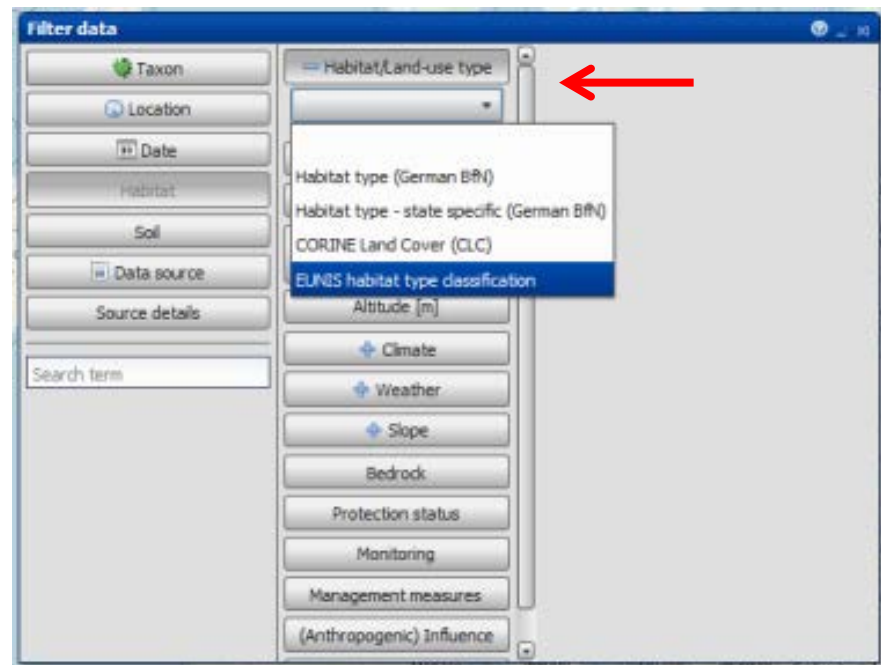
- *Habitat parameters*
- *Soil parameters*

Filter data for Habitats

Many categories
ordered ~ usage frequency
~ category groups

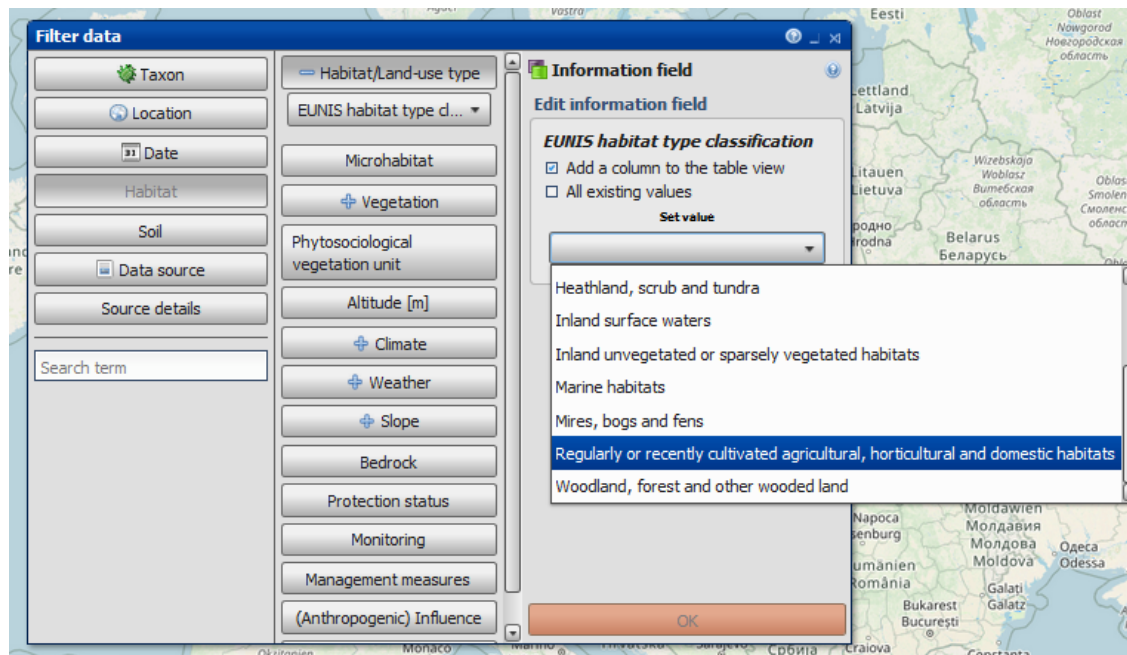


i.e., for specific habitat types
→ *first choose a classification system*



Filter data for Habitats

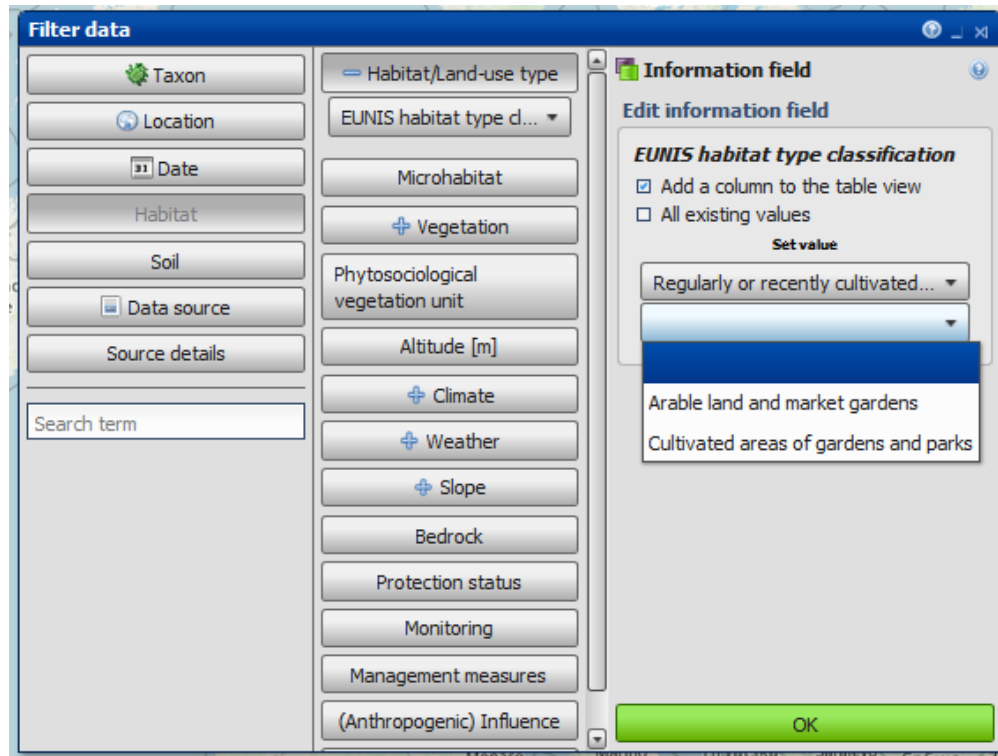
→ *Then choose a first-order habitat type*



*i.e., for
agricultural
habitats*

Filter data for Habitats

→ *Second (third, etc.)-order habitat types possible (scroll through the hierarchy)*



Filter data for Habitats

The screenshot displays the Edaphobase Data-Query Portal interface. The browser address bar shows the URL <https://portal.edaphobase.org>. The user is logged in as David Russell (drussell). The main content area features a map of Europe with numerous orange dots representing sampling sites, primarily concentrated in Germany. The sidebar on the left contains the following information:

- Data fil...**
- EUNIS habitat type classification**
- EUNIS habitat type classification: Arable land an...
- Habitat type (German BfN): Arable and fallow lan...
- Locality**
- Germany (Code: DE) (287246 | 16320)
- Taxon**
- Lumbricidae (23300 | 1781)

Below the sidebar, there are buttons for "Show sampling sites", "Raw data table", and "Matrices". The map view includes a scale bar (0 to 100 km) and a "Map view" tab. The bottom right corner of the map area shows coordinates 52.27456, 10.10266.

i.e., Lumbricidae in agricultural habitats in Germany

Filter data for Habitats

The screenshot displays the Edaphobase Data-Query Portal interface. The main map shows sampling sites (orange dots) across Europe, with a concentration in Central Europe. The left sidebar contains a 'Data fil...' panel with the following information:

- EUNIS habitat type classification**
- EUNIS habitat type classification: Arable land an...
- Habitat type (German BfN): Arable and fallow lan...
- Locality**
- Germany (Code: DE) (287246 | 16320)
- Taxon**
- Lumbricidae (23300 | 1781)

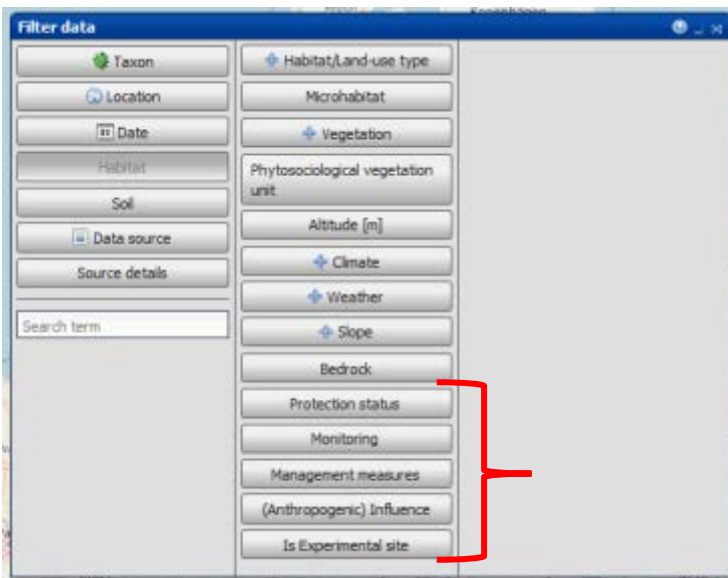
Below the filter panel, it states: "6609 observations at 332 localities found in Edaphobase". There are buttons for "Show sampling sites", "Raw data table", and "Matrices".

A large red text overlay is centered on the map:

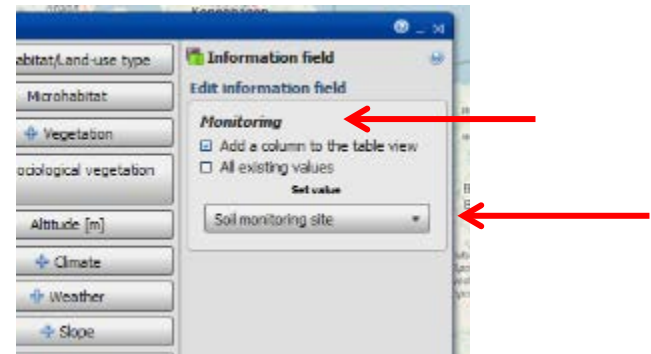
NOTE:
Filtering data for specific data types
selects ONLY those data records
which contain these entries!

Filter data for Habitats

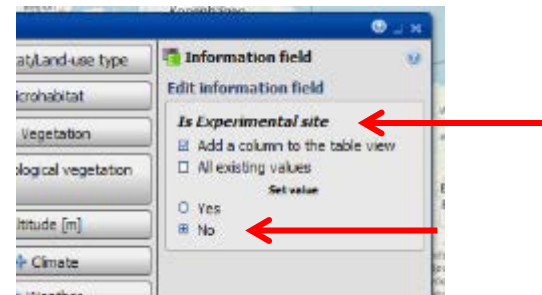
some categories intended for including / excluding data from specific studies



i.e. including data only from monitoring sites



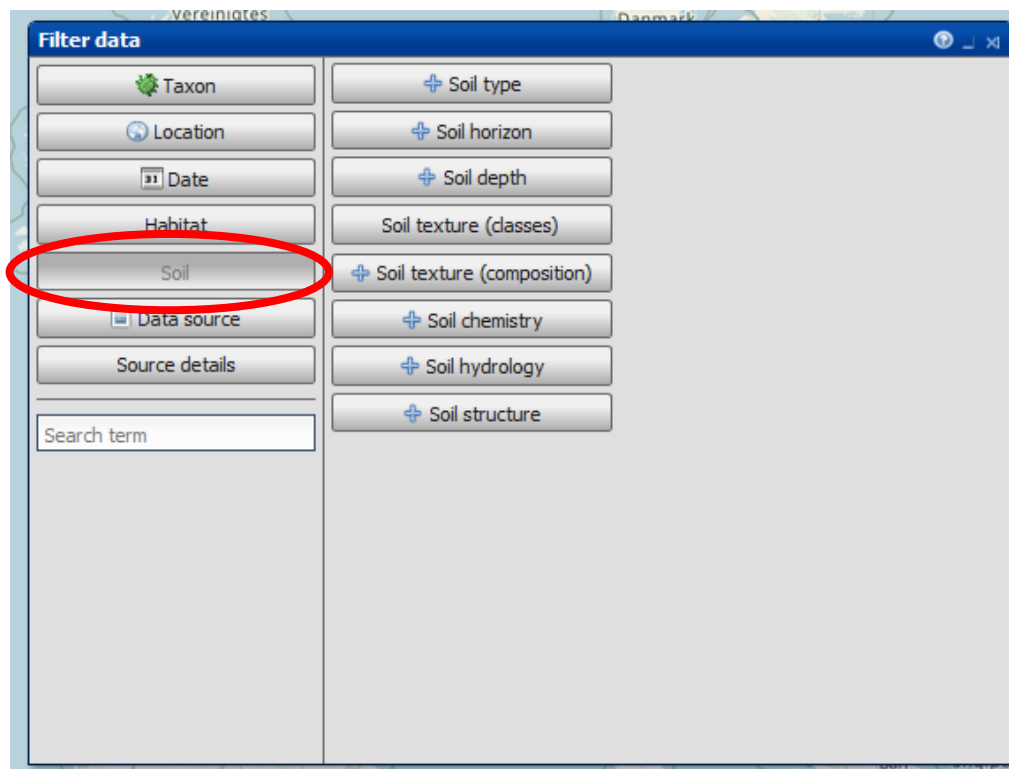
i.e. excluding data from experimental sites



(only the non-treatment, „control“ sites included)

Filter data for Soils

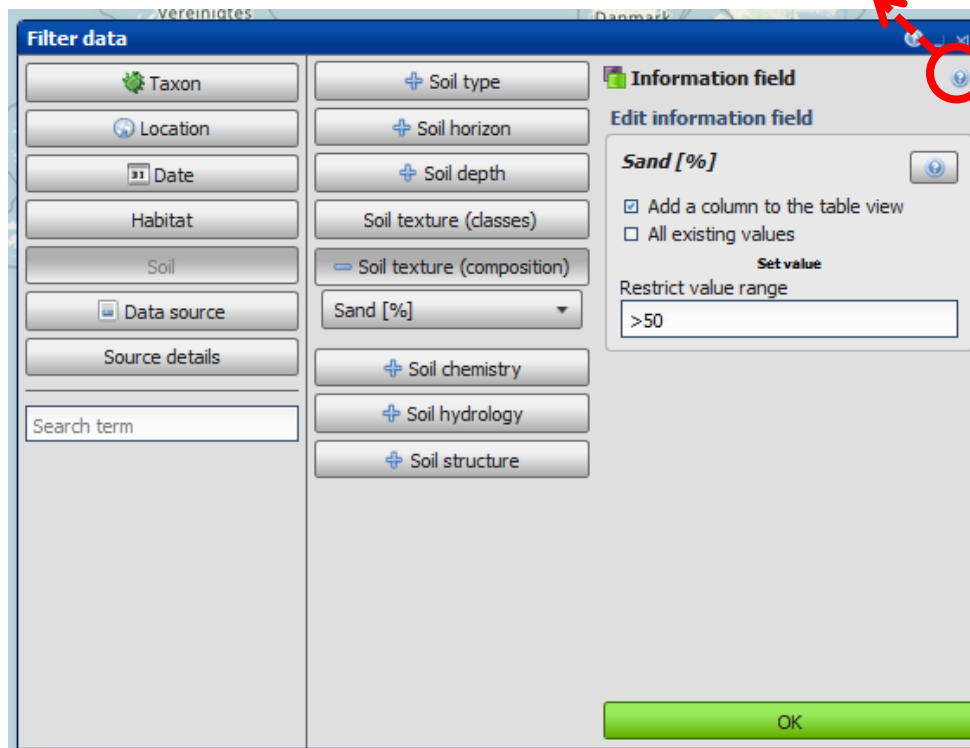
Many categories
ordered ~ usage frequency
~ category groups



Filter data for Soils

i.e., filtering for data only from sandy soils

Help / information button (i.e., for syntax)



Filter data for Soils

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The interface includes a menu bar with "File", "Filter data", "Create analysis", "Extras", "Tools", "Tutorials", and "Help". A toolbar contains icons for "Add-on map", "Sampling sites", and "Tools".

The left sidebar shows the "Data fil..." panel with the following filters:

- Sand [%]
- >50 (20704 | 219)
- Locality
- Germany (Code: DE) (287246 | 16320)
- Taxon
- Lumbricidae (23300 | 1781)

The main map view shows a map of Europe with sampling sites marked as orange dots. A red text box overlaid on the map reads: "i.e., Lumbricidae in sandy soils in Germany".

The bottom left of the interface shows a summary: "1515 observations at 69 localities found in Edaphobase". Below this are buttons for "Hide sampling sites", "Raw data table", and "Matrices".

The bottom right of the interface shows a scale bar (0 to 100 km) and the text "© OpenStreetMap".

Filter data for Soils

The screenshot shows the Edaphobase Data-Query Portal interface. The browser address bar displays <https://portal.edaphobase.org>. The page title is "edaphobase Data-Query Portal #210120". The user is logged in as "David Russell (drussell)".

The interface includes a sidebar on the left with the following sections:

- Data fil...:** Contains filters for "Sand [%]" (>50 (20704 | 219)), "Locality" (Germany (Code: DE) (287246 | 16320)), and "Taxon" (Lumbricidae (23300 | 1781)).
- Summary:** "1515 observations at 69 localities found in Edaphobase".
- Actions:** "Hide sampling sites", "Raw data table", and "Matrices".
- Analy...:** A section for analysis tools.

The main area displays a map of Europe with sampling sites marked by orange dots. A large red text overlay reads: **NOTE: Filtering data for specific data types selects ONLY those data records which contain these entries!**

Let's do it !

Exercise 4)

Select Filter: Taxon → Major Group → „Lumbricidae“

Add Location → from List → Political Region → “Germany

Add Habitat → Habitat-Type → German BfN → “Arable land”

Add Soil → Texture (composition) → Sand [%] → “>30”

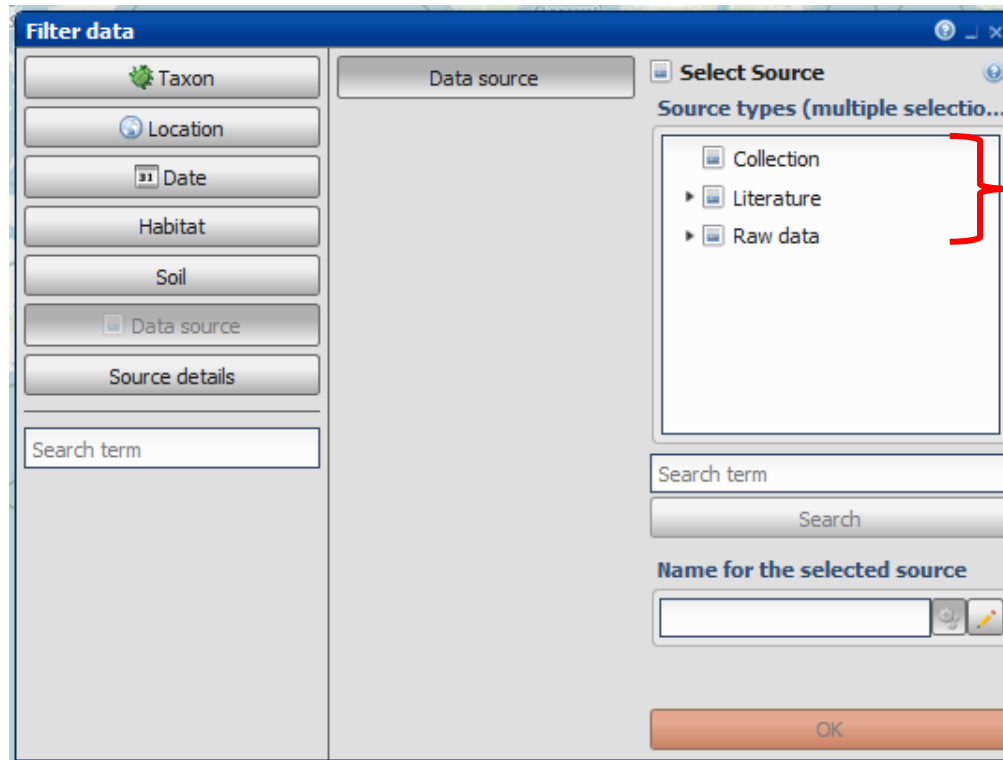
Show sites of occurrence in Map View / Uncluster data points

Delete “Sand[%] >30”

Note how data points increase!

(→ *i.e. few records with this information*)

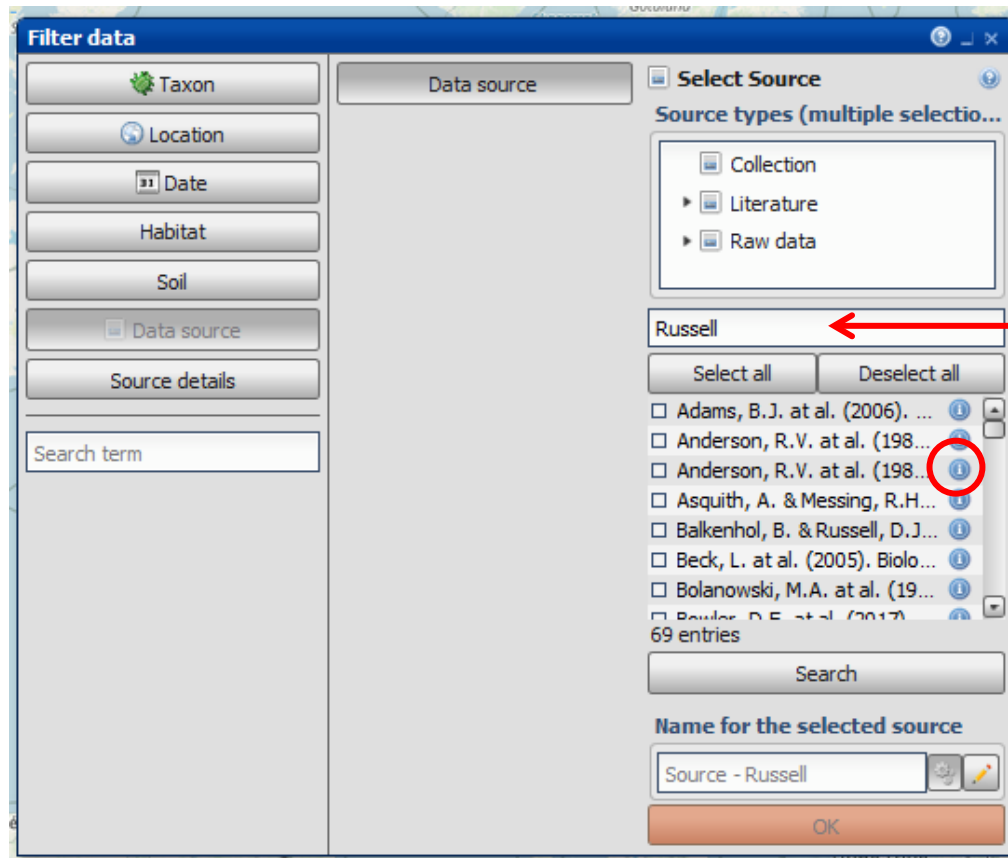
Filter data for specific source (types)



Main categories
→ Subcategories
with “▶”

Filter data for specific source (types)

Specific authors, projects, etc. = searchable



Type name here

More information

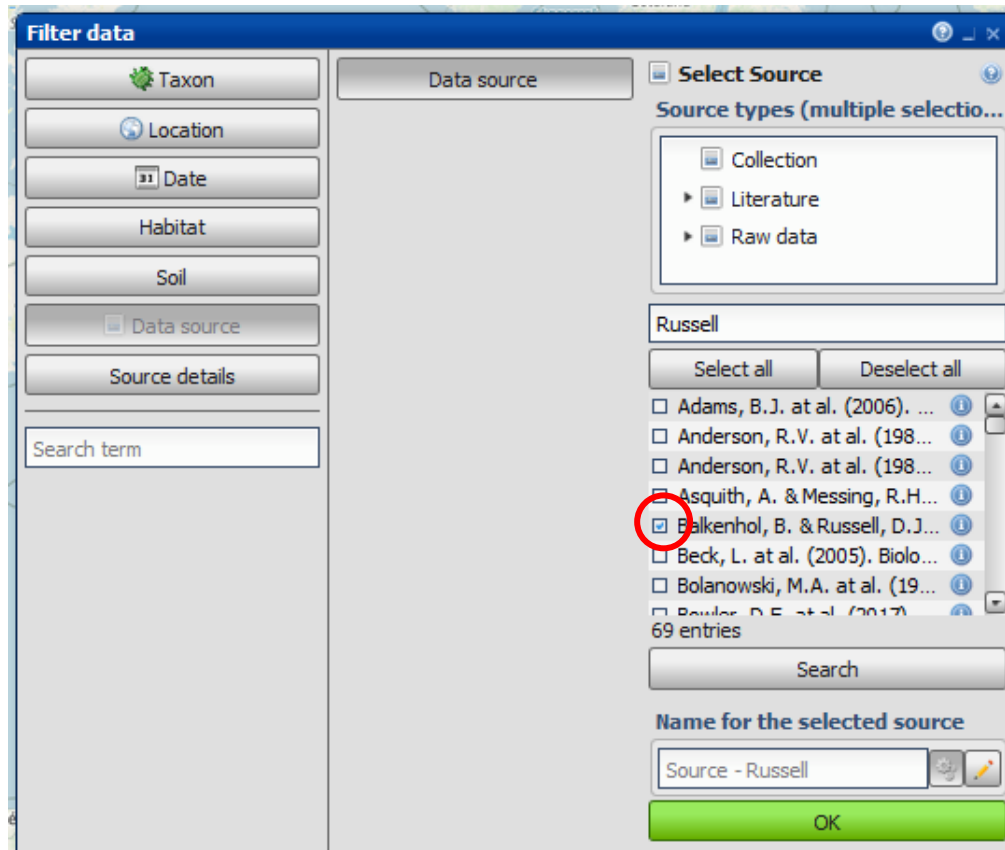
Filter data for specific source (types)

New tab in “View” window with source information

Map view		Source details *	
+ Create data filter			
ID	92910		
Document type	Article		
In	OIKOS, 1600-0706; 0030-1299		
Authors	1 Name	Richard V. Anderson	
	Role	Author	
	2 Name	W.D. Gould	
	Role	Author	
	3 Name	L.E. Woods	
	Role	Author	
	4 Name	C. Cambardella	
Role	Author		
5 Name	Prof. Russell E.ingham		
Role	Author		
6 Name	em. Prof. David C. Coleman		
Role	Author		
Document information	Data source	Anderson, R.V. at al. (1983). Organic and inorganic nitrogenous losses by microbivorous nematodes in soil.. OIKOS. 40, 75-80.	
	Page from	75	
	Page to	80	
	Title	Organic and inorganic nitrogenous losses by microbivorous nematodes in soil.	
	Volume	40	
	Year	1983	
Exemplar information	1 Contact person	Dr. Karin Hohberg	
	Inventory code	NEM 0256	

Filter data for specific source (types)

Specific authors, projects, etc. = searchable

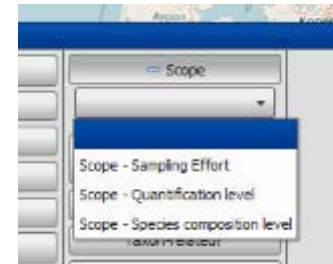
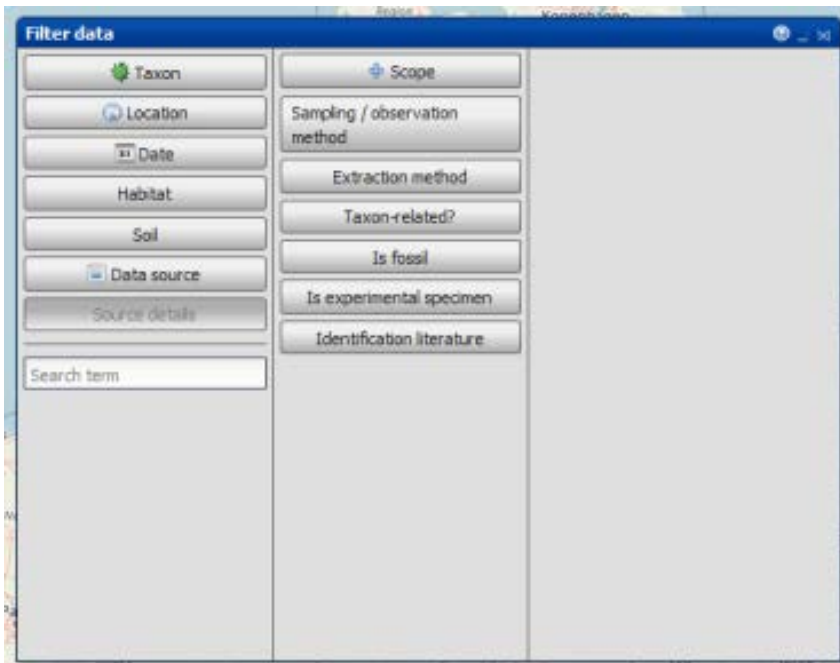


Check which source (multiple = possible)

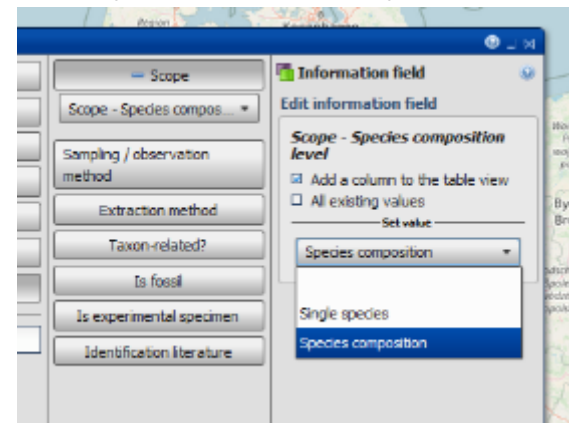
“OK” turns green

Filter data for specific source details

→ Most important: „Scope“



i.e., only community-level data



Edaphobase Portal

Functionality and Usage

Block I

- I. Expectations on a soil-biodiversity database
- II. Getting started
- III. Filtering for data; mapping occurrences

Exercises 1 - 4

Block II

IV. Categorizing (selected) data & Map Views

Exercise 5

- III. Creating and downloading (flat) tables
- IV. Creating contingency tables (= matrices)

Exercise 6

Block III

- V. Saving and (re-) loading “projects”, maps
- VI. Further Information
- VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

Categorizing (= Grouping) data

Important: note the difference to “filtering” data!

- Filtering data selects only that data containing these entries
i.e., only data for earthworms in agricultural habitats
- Categorizing data shows the different entries within the filtered data
i.e., different habitat types in earthworm data

Categorizing (= Grouping) data

Edaphobase Data-Query Portal

https://portal.edaphobase.org

File Filter data Create analysis Extras Tools Tutorials Help

Data filters

Map view

Add-on map

383906 observations at 27417 localities found in Edaphobase

Show sampling sites

Raw data table

Matrices

Analyses

Categorize data extract (grouping)

© OpenStreetMap

Categorizing (or „grouping“) data is done

- according to data fields contained within the filtered dataset
- in this area here

i.e., differentiate two „sister“ species

Edaphobase Data-Query Portal

https://portal.edaphobase.org

383973 observations at 27436 localities found in Edaphobase

Map view

Filter data

Taxon

Location

Date

Habitat

Soil

Data source

Source details

Taxonomic major group

By tree / name

Taxon from tree

poly ang

- Polydesmus angelus Karsch, 1881 [Species]
- Polydesmus angustus Latzel, 1884 [Species]
- Polydesmus brincki Demange, 1970 [Species]
- Polydesmus rangifer Latzel, 1884 [Species]
- Polydesmus angulifer Peters, 1864 [Species]
- Polydesmus acutangulus Menge, 1851 [Species]
- Propolydesmus brincki Demange, 1970 [Species]

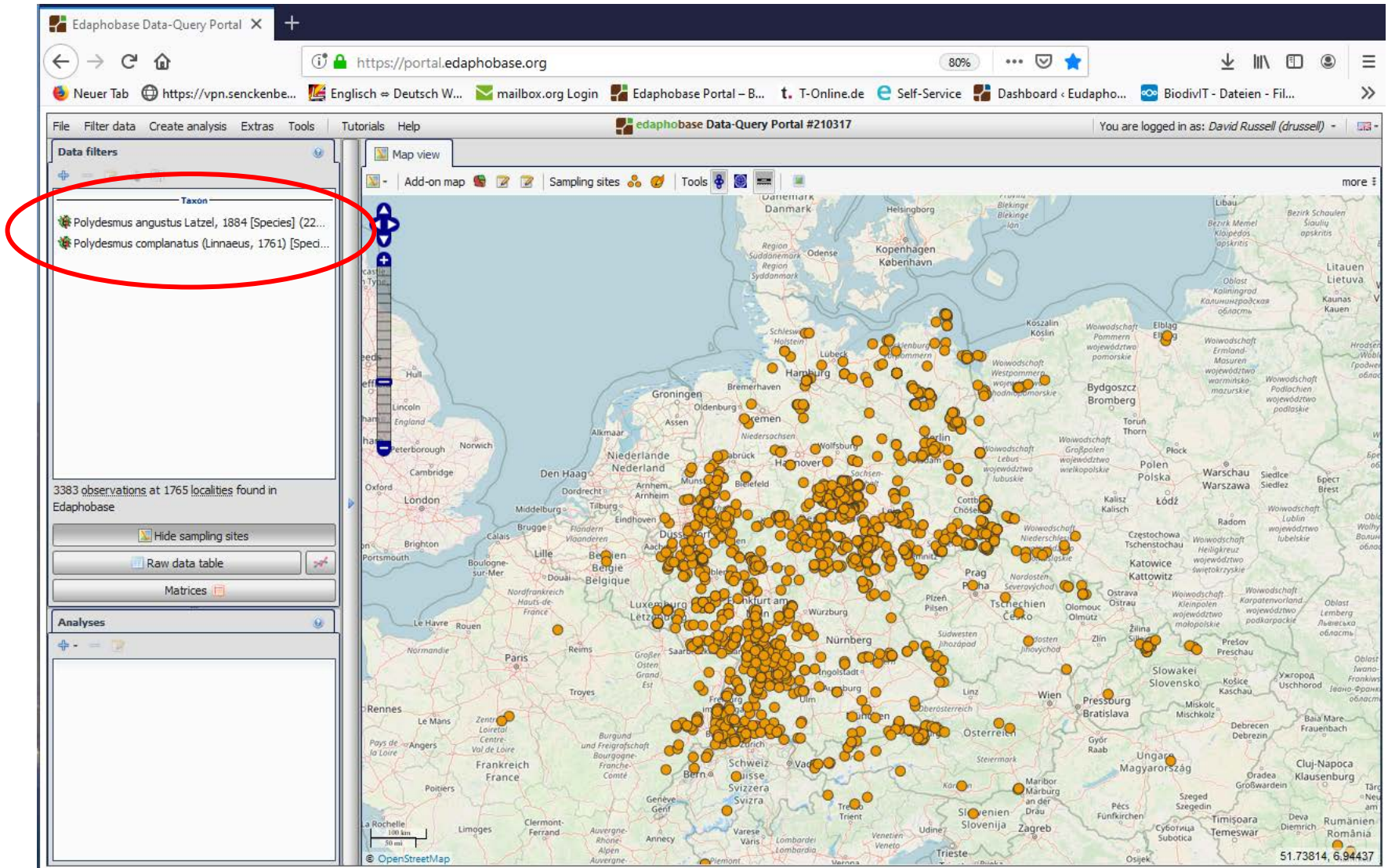
Search term

Include valid taxa only

OK

Note: only first 4 letters of Genus & species needed!

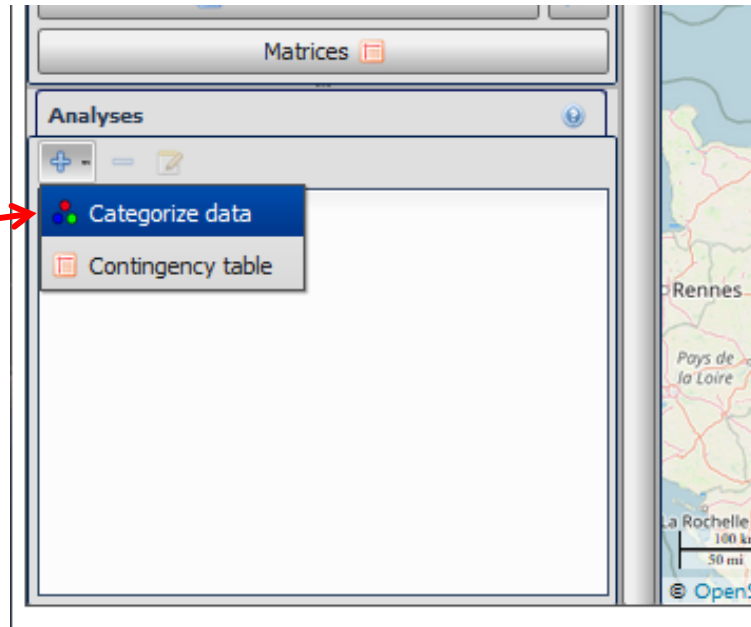
initially, NO difference when mapping the two distributions



To show the two different distributions
→ “group” the selected data set

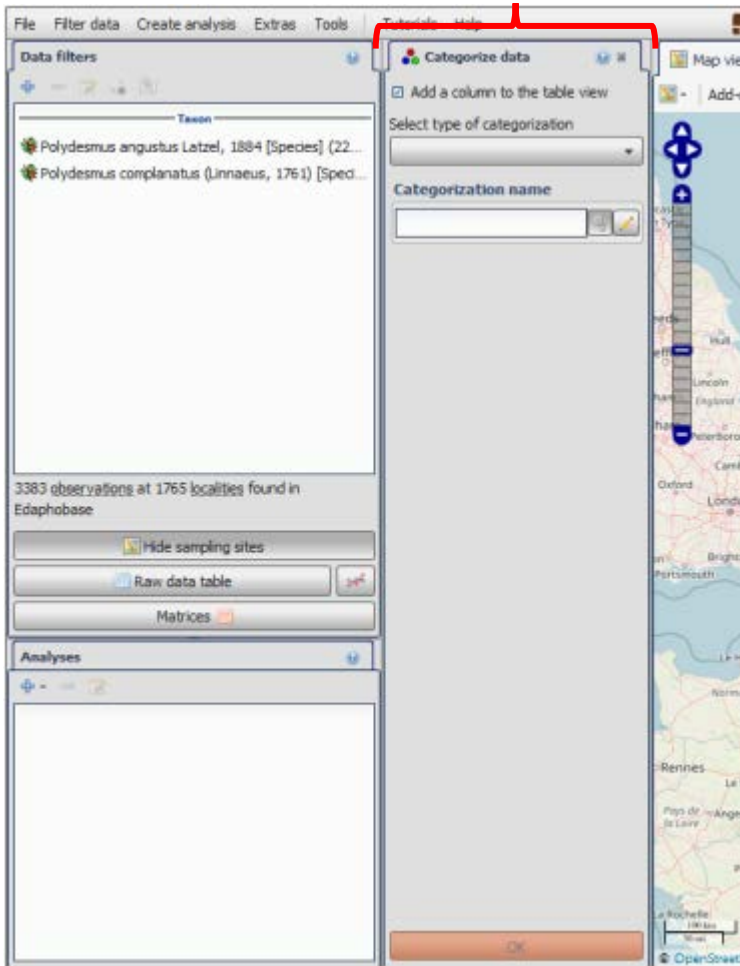
Click on “+” (= “Add”)

Then, click

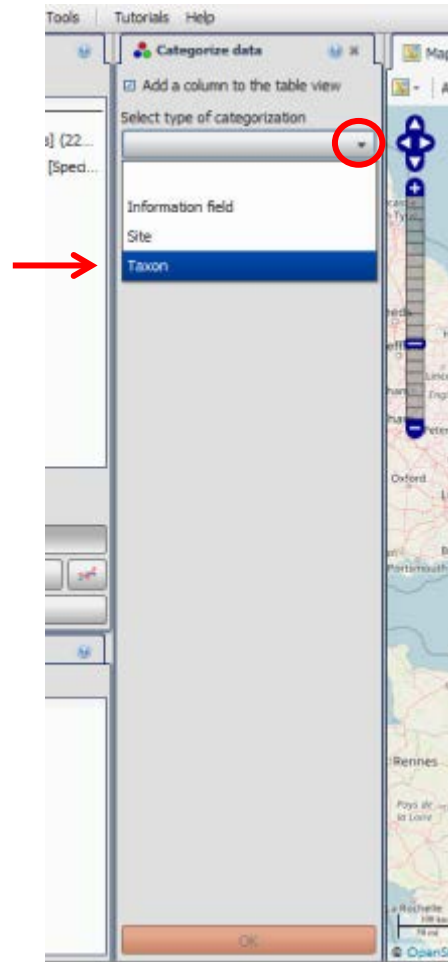


→ “categorize” the selected data set

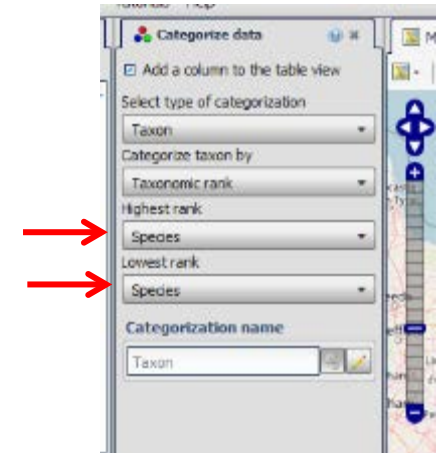
A new panel opens



Select „grouping“ parameter



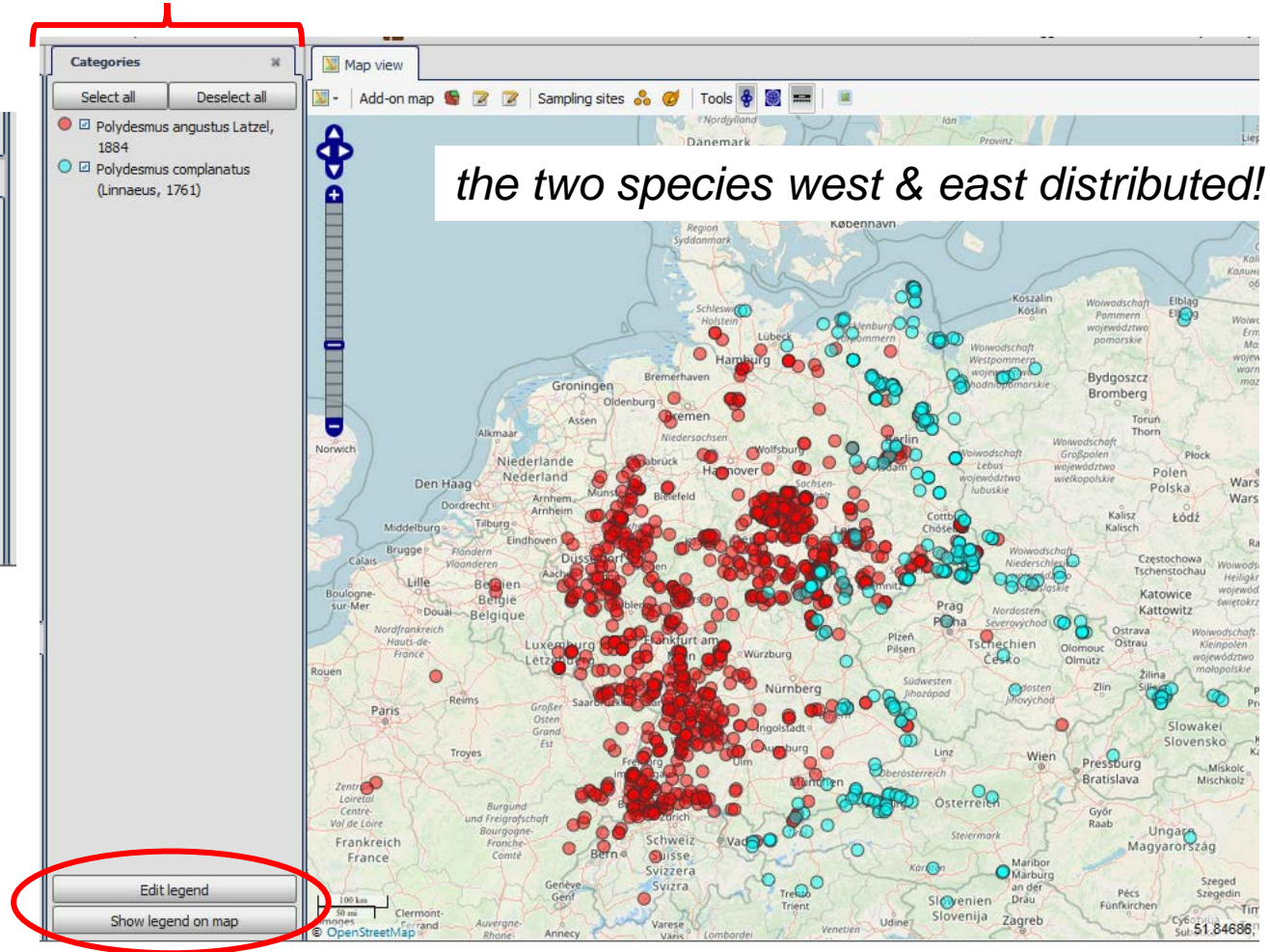
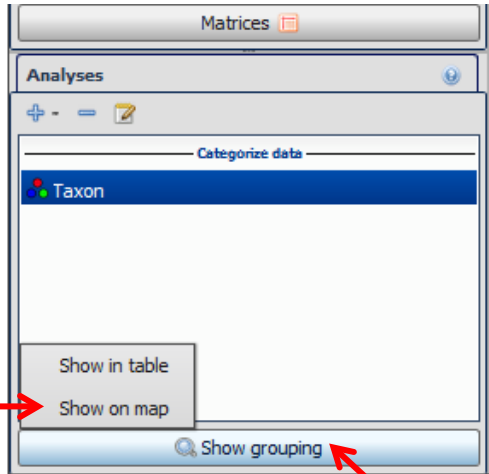
Select „grouping“ level



→ “categorize” the selected data set

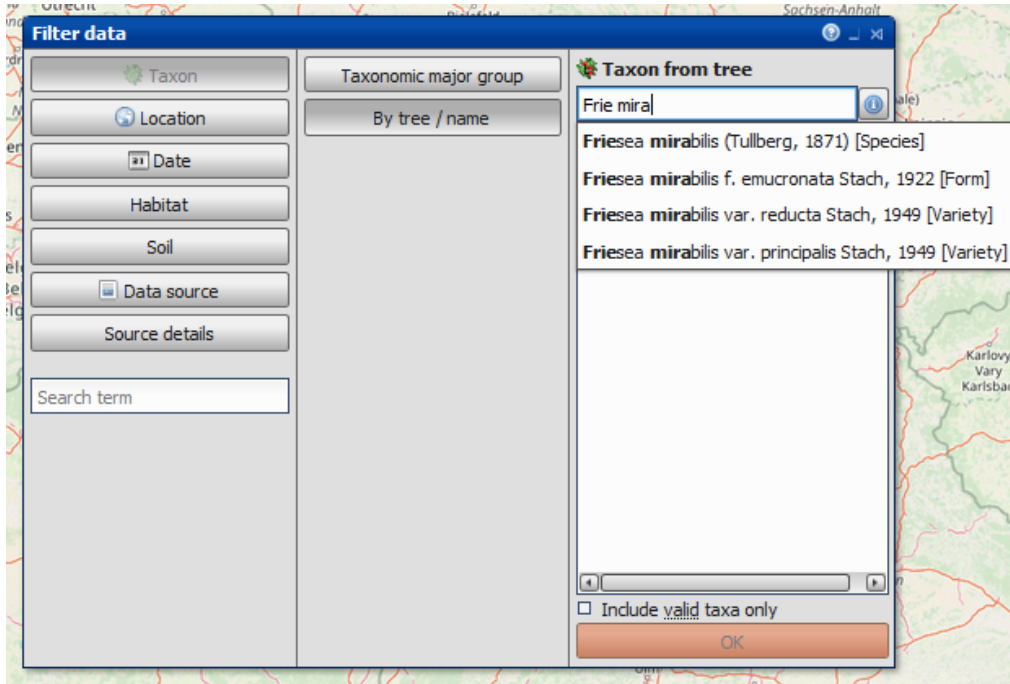
This middle panel becomes the map legend

Show on map

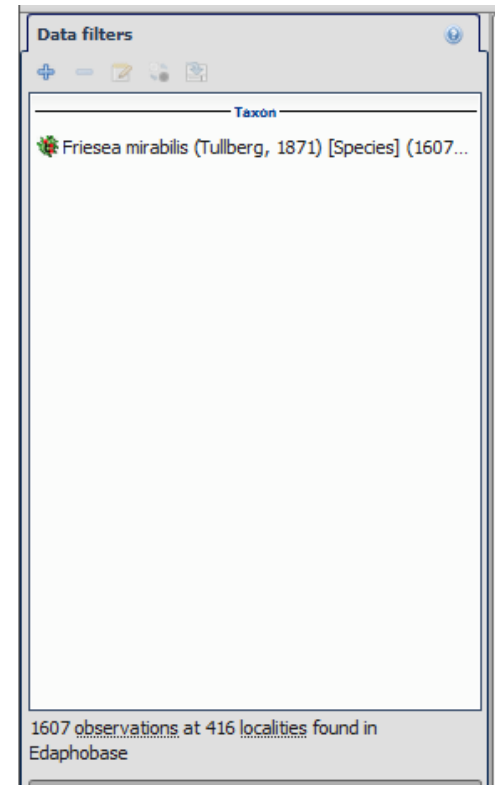


→ “categorize” selected data ~ habitat types

First select („filter“) a species

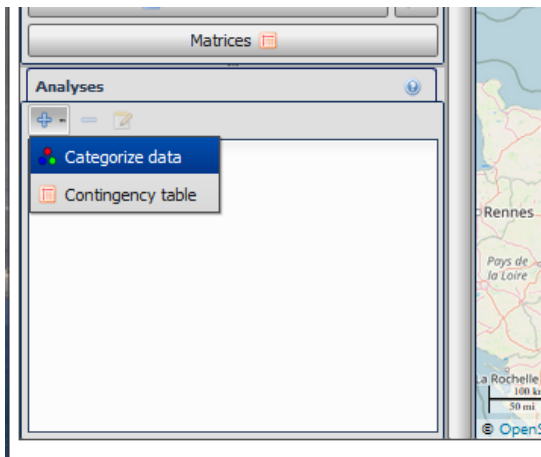


The filtered data set
(= all records of the species)

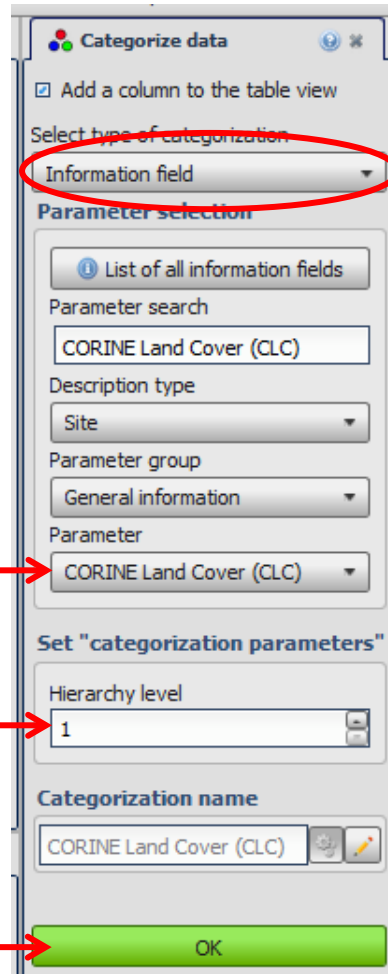


“Group” the selected data set by habitat type

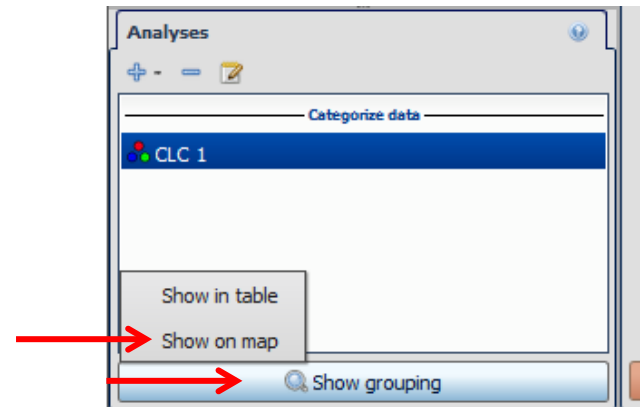
„add“ a categorization



Select a grouping parameter



Show on map



The selected data now grouped by habitat type (first hierarchical level)

The screenshot displays the 'edaphobase Data-Query Portal #210318'. The interface includes a menu bar (File, Filter data, Create analysis, Extras, Tools, Tutorials, Help) and a user login 'David Russell (drussell)'. The 'Data filters' panel on the left shows a taxon filter for 'Frieisia mirabilis (Tullberg, 1871) [Species] (160...)' and a summary of '1607 observations at 416 localities found in Edaphobase'. Below this are buttons for 'Show sampling sites', 'Raw data table', and 'Matrices'. The 'Analyses' panel shows 'CLC 1' selected under 'Categorize data'. The 'Categories' panel, highlighted with a red circle, lists four habitat types: '(not differentiable / N/A)', 'Agricultural areas (Code: 2)', 'Artificial surfaces (Code: 1)', 'Forests and semi-natural areas (Code: 3)', and 'Wetlands (Code: 4)'. The main map view shows a map of Europe with sampling sites marked by colored symbols corresponding to these categories. The map includes a scale bar (0-200 km) and coordinates (52.26033, 5.42771).

Note! : not all data records contain habitat-type data! ("not differentiable" de-selected by default)

The screenshot shows the 'edaphobase Data-Query Portal #210318' interface. The 'Categories' panel on the left lists several habitat types with their respective codes and symbols. The 'not differentiable / N/A' category is circled in red. The map view shows a map of Europe with sampling sites marked by colored symbols corresponding to the categories. The 'Data filters' panel on the left shows the taxon 'Frieisia mirabilis (Tullberg, 1871) [Species] (1607...)' and provides options to show sampling sites, raw data table, and matrices. The 'Analyses' panel shows 'CLC 1' as the selected analysis. The map view includes a scale bar and coordinates (58.60167, -6.96486).

Let's do it !

Exercise 5)

Select Filter: Taxon → By name → „Frie mira“ (*for Friesea mirabilis*)

Add Categorization: Click “+” in Analyses window → “Categorize data”

In “Categorized data” window: “select type” → Information field

a) Description type → Site

Parameter Group → General Information

Parameter → CORINE

*See information-field list
to see how data fields
are hierarchically grouped*

b) alternative: type “corine” in Parameter search

Click “OK”

Show grouping (bottom left) → show on map

Edaphobase Portal

Functionality and Usage

Block I

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Exercises 1 - 4

Block II

- IV. Categorizing (selected) data & Map Views

Exercise 5

III. Creating and downloading (flat) tables

- IV. Creating contingency tables (= matrices)

Exercise 6

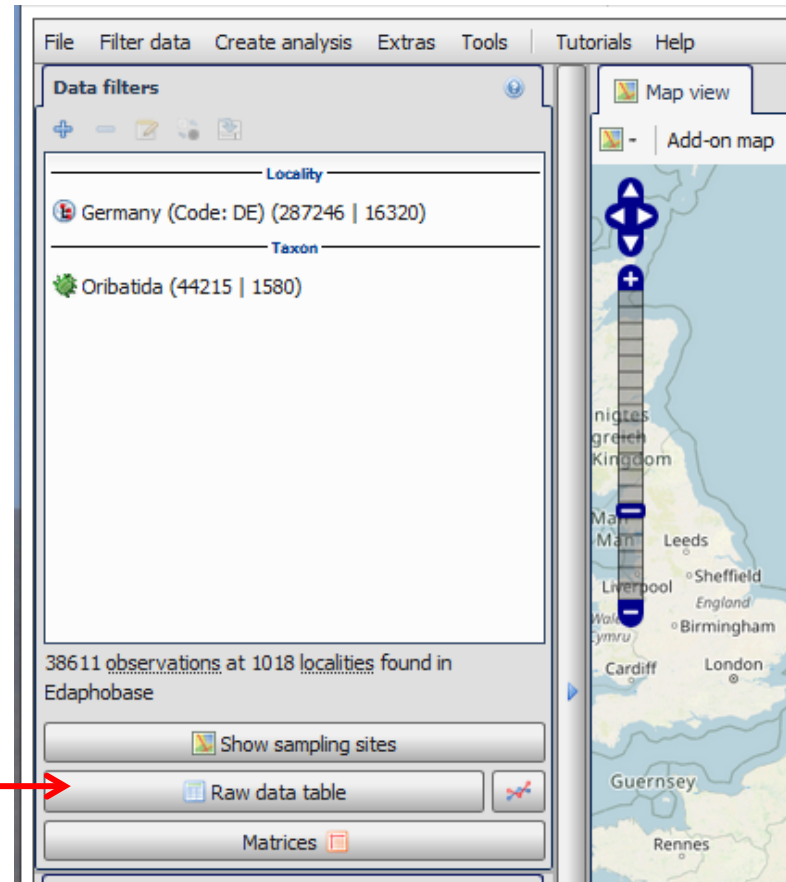
Block III

- V. Saving and (re-) loading “projects”, maps
- VI. Further Information
- VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

Creating tables of selected data

As always, first select (filter) a data-set extract
(i.e., Oribatida from Germany)



Then click
“Raw data table”
button

“Raw” (= flat) data table

Click on column to re-order table by that field

Column order changed by drag & drop

Shows how many records (of the filtered data set) contain data in that field

Scroll through columns

The screenshot shows a data table interface with a toolbar at the top containing options like 'Map view', 'Table view', 'Edit column selection', 'Columns with data', 'Rows', 'Export', and 'CSV'. The table has columns: id, Data source, Remark, Taxon, Valid taxon, cf., Country, District, Observation ..., Observation ..., Observation ..., and Habitat typ. A red arrow points to the 'Country' column header. Another red arrow points to the 'Observation ...' column header. A red circle highlights the cell '2858 / 38...' in the 'Observation ...' column for the first row. A red arrow points to the bottom status bar which reads '38621 rows (the number of rows is likely to exceed the number of observations due to parameter breakdown)'. The table contains rows of data with various taxonomic and geographic information.

id	Data source	Remark	Taxon	Valid taxon	cf.	Country	District	Observation ...	Observation ...	Observation ...	Habitat typ
	38611 / 3...	0 / 38611	38611 / 3...	38611 / 3...	1163 / 38...	38611 / 3...	38610 / 3...	35374 / 3...	37637 / 3...	2858 / 38...	30729 / 3...
281529	SMNG_Col...	N/A	Oribatida ...	Oribatida ...	N/A	Germany (C...	Baden-Würt...	Ludwigsburg	Hartenecker...	N/A	Wald- und G...
321499	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321503	SMNK_ORI...	N/A	Oribella pe...	Oribella pe...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321507	SMNK_ORI...	N/A	Pantelozet...	Pantelozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321511	SMNK_ORI...	N/A	Damaeus (...)	Damaeus (...)	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321515	SMNK_ORI...	N/A	Eupelops p...	Eupelops p...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321519	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321523	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321527	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321531	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321535	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321539	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321575	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321579	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321583	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321587	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321591	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321595	SMNK_ORI...	N/A	Steganaca...	Atropacar...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321599	SMNK_ORI...	N/A	Steganaca...	Steganaca...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321603	SMNK_ORI...	N/A	Steganaca...	Steganaca...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321607	SMNK_ORI...	N/A	Rhysotritia...	Acrotritia ...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321611	SMNK_ORI...	N/A	Microtritia...	Microtritia ...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321615	SMNK_ORI...	N/A	Cultroribul...	Cultroribul...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321619	SMNK_ORI...	N/A	Oribatula t...	Oribatula t...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321623	SMNK_ORI...	N/A	Multioppia...	Multioppia...	N/A	Germany (C...	Baden-Würt...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe

“Raw” (= flat) data table

To de-select rows, click on row and “-” button

The screenshot shows the edaphobase Data-Query Portal interface. On the left, the 'Data filters' panel shows 'Locality' set to 'Germany (Code: DE) (287246 | 16320)' and 'Taxon' set to 'Oribatida (44215 | 1580)'. The main table displays columns: id, Data source, Remark, Taxon, Valid taxon, cf., Country, District, and Observation. The first row is highlighted, and a red arrow points to the minus button in the toolbar above the table.

id	Data source	Remark	Taxon	Valid taxon	cf.	Country	District	Observation ...
281529	SMNG_Col...	N/A	Oribatida ...	Oribatida ...	N/A	Germany (C...	Baden-Würt...	Ludwigsburg
321499	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321503	SMNK_ORI...	N/A	Oribella pe...	Oribella pe...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321507	SMNK_ORI...	N/A	Pantelozet...	Pantelozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321511	SMNK_ORI...	N/A	Damaeus (...)	Damaeus (...)	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321515	SMNK_ORI...	N/A	Eupelops p...	Eupelops p...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321519	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321523	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321527	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321531	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321535	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321539	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321543	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321547	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321551	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...

Note decrease in records!

The screenshot shows the same edaphobase Data-Query Portal interface, but the 'Data filters' panel now shows 'Locality' set to 'Germany (Code: DE) (287341 | 16321)'. The main table now displays 38610 records. A red circle highlights the text '38610 observations at 1018 localities found in Edaphobase' in the filters panel.

id	Data source	Remark	Taxon	Valid taxon	cf.	Country	District	Observation ...
281529	SMNG_Col...	N/A	Oribatida ...	Oribatida ...	N/A	Germany (C...	Baden-Würt...	Ludwigsburg
321499	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321503	SMNK_ORI...	N/A	Oribella pe...	Oribella pe...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321507	SMNK_ORI...	N/A	Pantelozet...	Pantelozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321511	SMNK_ORI...	N/A	Damaeus (...)	Damaeus (...)	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321515	SMNK_ORI...	N/A	Eupelops p...	Eupelops p...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321519	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321523	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321527	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321531	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321535	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321539	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...
321543	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Germany (C...	Baden-Würt...	Bodendauer...

“Raw” (= flat) data table

(de-)selecting columns

Note: a column = an Edaphobase data field

Click „Edit column“ button

The screenshot shows the Edaphobase Data-Query Portal interface. The main window displays a data table with columns: id, Data source, Remark, Taxon, Valid taxon, cf., Country, District, and Observation. A red arrow points to the 'Edit column selection' button in the top toolbar. The sidebar on the left contains 'Data filters' for 'Locality' (Germany) and 'Taxon' (Oribatida), along with buttons for 'Show sampling sites', 'Raw data table', and 'Matrices'.

id	Data source	Remark	Taxon	Valid taxon	cf.	Country	District	Observation ...
281529	SMNG_Col...	N/A	Oribatida ...	Oribatida ...	N/A	Germany (C...	Baden-Würt...	Ludwigsburg
321499	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321503	SMNK_ORI...	N/A	Oribella pe...	Oribella pe...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321507	SMNK_ORI...	N/A	Pantelozet...	Pantelozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321511	SMNK_ORI...	N/A	Damaeus (...)	Damaeus (...)	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321515	SMNK_ORI...	N/A	Eupelops p...	Eupelops p...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321519	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321523	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321527	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321531	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321535	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321539	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321543	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321547	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321551	SMNK_ORI...	N/A	Suctobel...	Suctobel...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321555	SMNK_ORI...	N/A	Liacarus ni...	Liacarus ni...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321559	SMNK_ORI...	N/A	Ceratozet...	Ceratozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321563	SMNK_ORI...	N/A	Ceratozet...	Ceratozet...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321567	SMNK_ORI...	N/A	Fosseremu...	Fosseremu...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321571	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...
321575	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Germany (C...	Baden-Würt...	Bodendauer ...

“Raw” (= flat) data table

(de-)selecting columns

A new middle panel opens

The screenshot shows the 'edaphobase Data-Query Portal' interface. On the left, there are panels for 'Data filters' (showing 'Germany (Code: DE) (287341 | 16321)' and 'Oribatida (44215 | 1580)') and 'Analyses'. The central 'Select columns' panel is open, displaying a search list of categories. A red arrow points to the 'Select columns' title bar. Another red arrow points to the 'Identification (1/11)' category, which is circled in red. A third red arrow points to the 'SMNK_Col...' data field in the table on the right. The table has columns for 'id', 'Data source', and 'Re'. The bottom of the table shows '38621 rows (the number of rows is li'.

Initially shown are the data-field categories

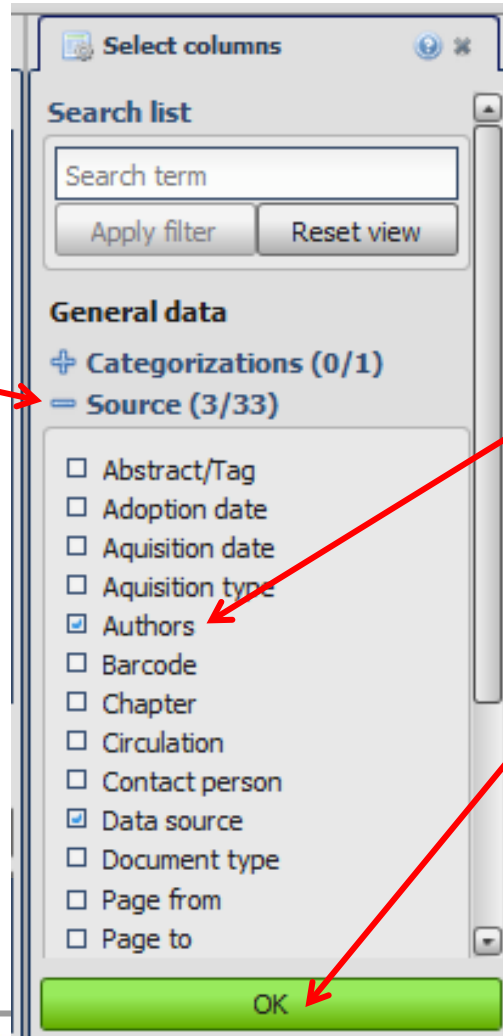
(Click „+“, to expand and show data fields)

Numbers indicate how many data-fields (of the category) are currently selected

“Raw” (= flat) data table

(de-)selecting columns

Expand category
To show data fields



(de-) select a data-field

Click “OK”

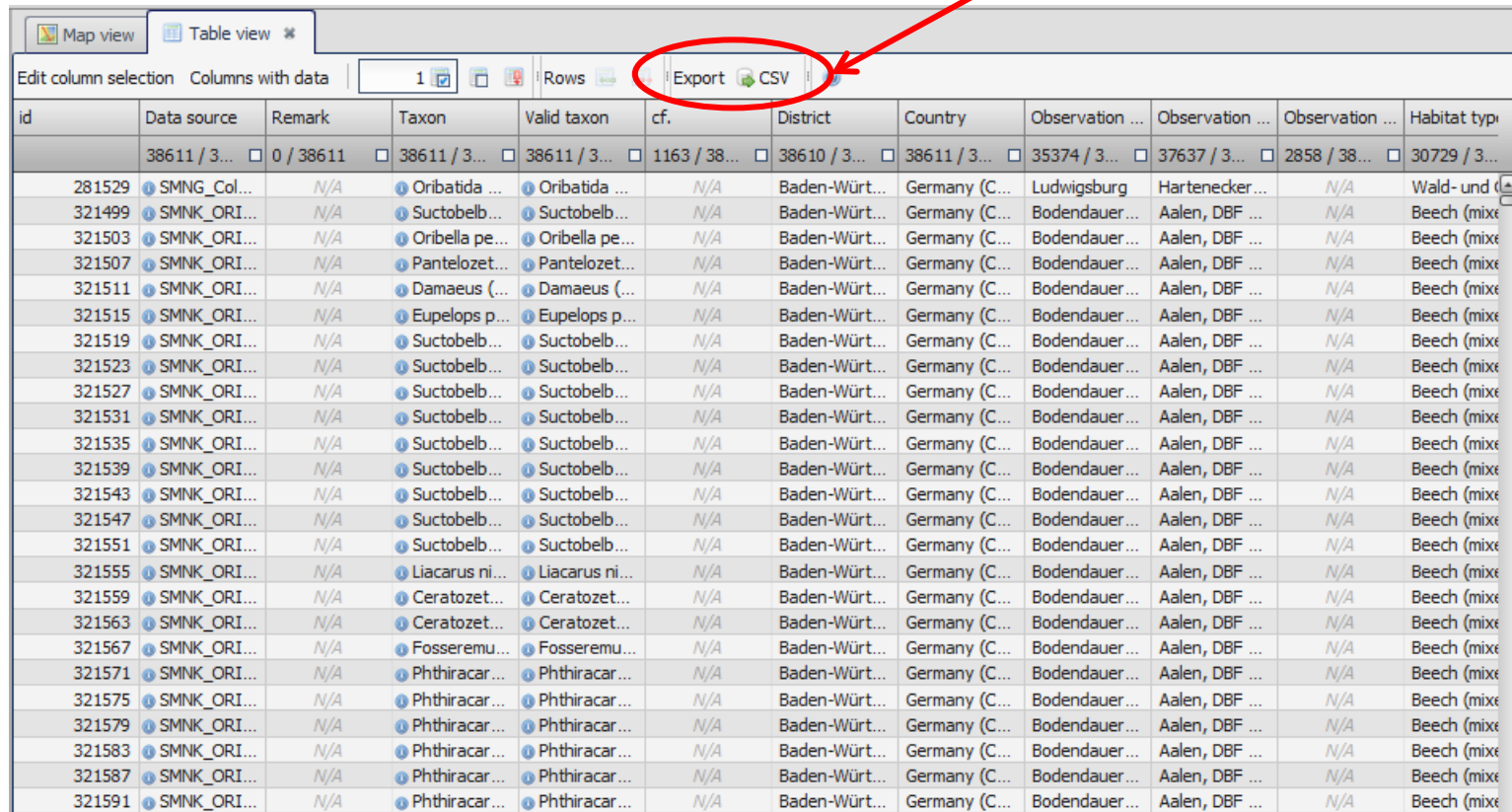
*Note: column added to end
of table*

Export (download) tables

For own analyses

Note: only possible for registered users

Click "Export" button



The screenshot shows a web application interface with a table view. The table has columns for 'id', 'Data source', 'Remark', 'Taxon', 'Valid taxon', 'cf.', 'District', 'Country', 'Observation ...', 'Observation ...', 'Observation ...', and 'Habitat type'. The 'Export' button is circled in red, and a red arrow points to it from the text 'Click "Export" button'.

id	Data source	Remark	Taxon	Valid taxon	cf.	District	Country	Observation ...	Observation ...	Observation ...	Habitat type
281529	SMNG_Col...	N/A	Oribatida ...	Oribatida ...	N/A	Baden-Würt...	Germany (C...	Ludwigsburg	Hartenecker...	N/A	Wald- und
321499	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321503	SMNK_ORI...	N/A	Oribella pe...	Oribella pe...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321507	SMNK_ORI...	N/A	Pantelozet...	Pantelozet...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321511	SMNK_ORI...	N/A	Damaeus (...)	Damaeus (...)	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321515	SMNK_ORI...	N/A	Eupelops p...	Eupelops p...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321519	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321523	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321527	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321531	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321535	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321539	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321543	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321547	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321551	SMNK_ORI...	N/A	Suctobelb...	Suctobelb...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321555	SMNK_ORI...	N/A	Liacarus ni...	Liacarus ni...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321559	SMNK_ORI...	N/A	Ceratozet...	Ceratozet...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321563	SMNK_ORI...	N/A	Ceratozet...	Ceratozet...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321567	SMNK_ORI...	N/A	Fosseremu...	Fosseremu...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321571	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321575	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321579	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321583	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321587	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321591	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe

Export (download) tables

For own analyses

First, the “Terms & conditions of use” must be accepted

IMPORTANT NOTICE

Before downloading data, please ensure that you understand and accept the Edaphobase Terms and Conditions for data access:

In particular:

- You are not allowed to use these data or any product you derive from them for commercial use or profit without first obtaining written permission from the data providers.
- You must credit the data providers for any material you use. Crediting information is included in the data set's metadata.
- If you are granted detailed access to data sets, i.e. to sensitive records, you are not allowed to further disseminate this information without written permission from the data providers.
- Data providers may impose specific terms of access and/or use on their data sets in addition to the Edaphobase Terms and Conditions. Please refer to the data set's metadata.

Note on data access:

Scroll

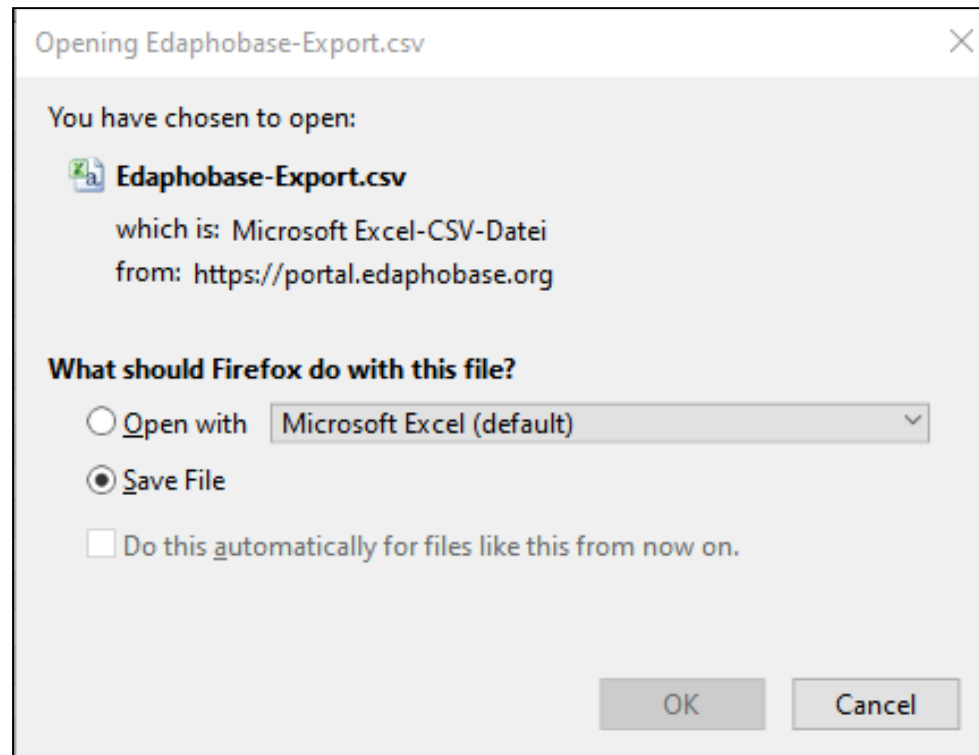
id	Data source	Re	tion ...	Observation ...	Habitat typ						
38611 / 3...		0	3...	2858 / 38...	30729 / 3...						
281529	SMNG_Col...		cker...	N/A	Wald- und (...)						
321499	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321503	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321507	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321511	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321515	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321519	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321523	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321527	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321531	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321535	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321539	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321543	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321547	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321551	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321555	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321559	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321563	SMNK_ORI...		BF ...	N/A	Beech (mixe						
321567	SMNK_ORI...	N/A	Fosseremu...	Fosseremu...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321571	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321575	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321579	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321583	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321587	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe
321591	SMNK_ORI...	N/A	Phthiracar...	Phthiracar...	N/A	Baden-Würt...	Germany (C...	Bodendauer...	Aalen, DBF ...	N/A	Beech (mixe

Export (download) tables

For own analyses

Standard dialogue

Open directly (in Excel) or Save file (default: your download folder)



Edaphobase Portal

Functionality and Usage

Block I

- I. Expectations on a soil-biodiversity database
- II. Getting started
- III. Filtering for data; mapping occurrences

Exercises 1 - 4

Block II

- IV. Categorizing (selected) data & Map Views

Exercise 5

- III. Creating and downloading (flat) tables

IV. Creating contingency tables (= matrices)

Exercise 6

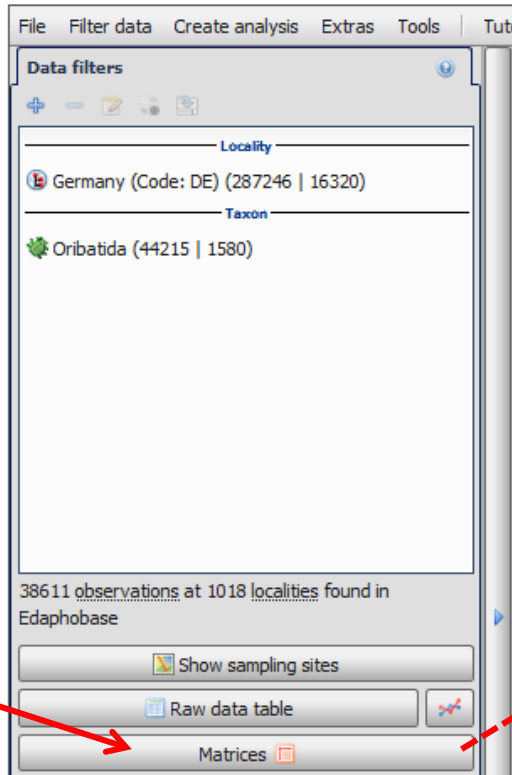
Block III

- V. Saving and (re-) loading “projects”, maps
- VI. Further Information
- VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

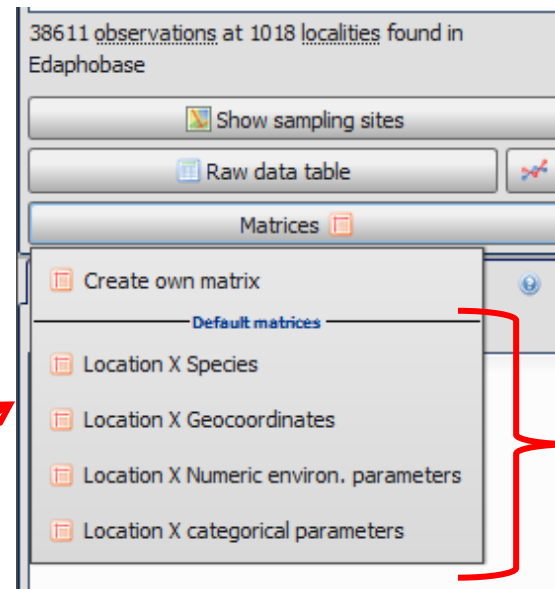
Create contingency tables (= Matrix)

After selecting a data-set extract,



click
“Matrices”
button

Choose a default matrix
Or create your own

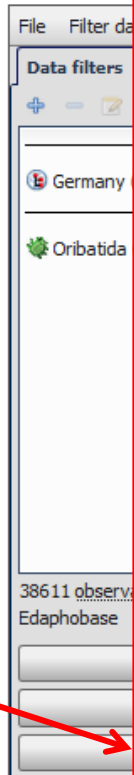


4 „standard“
(for ecological
analyses)
matrices
available

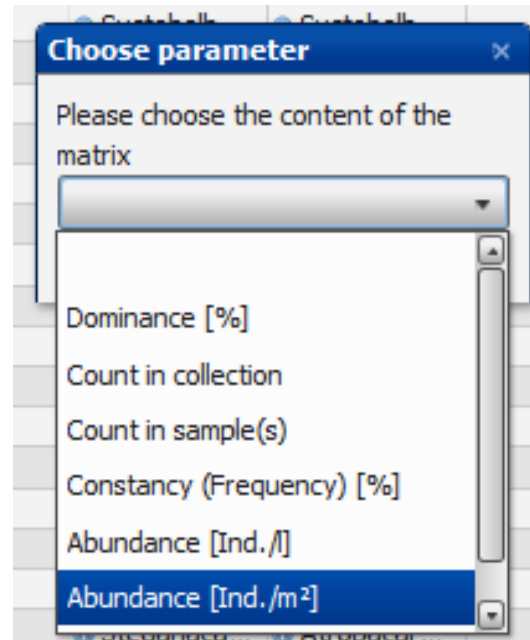
Create contingency tables (= Matrix)

After selecting a data set extract

For the species x site default:
The table content „unit“ must be chosen
(pop-up window)



click
"Matrices"
button



4 „standard“
(for ecological
analyses)
matrices
available

Create contingency tables (= Matrix)

Edaphobase automatically creates the categories and calculates the cell values

Sites

Matrix Location/Species (species quantities) - Sum (Abundance [Ind./m²])

Use colors | Threshold 1 | Content Value | Export as CSV | Help | How the contingency table works

	(not differen...	Achipteria co...	Achipteria ni...	Acrogalumna...	Acrotritia ar...	Acrotritia du...	Adoristes ov...	Amerobelba ...	Ameronothr...	Amerus polo...
id: -2548	Dubringer M...									
id: -2549	Dubringer M...									
id: -2550	Dubringer M...	2388.5		796.18		1592.4				
id: -2551	Dubringer M...			796.18		11942.7				
id: -2554	Dubringer M...									
id: -7259	Meldorfer B...								89200	
id: 1212	Teufelsnase...		48362.6			3720.2				
id: 39047	Fichte Süd (...)	43574.6	70885.3		23643.9	35125.4	15933.5			
id: 39048	Tereno (EB_...	194915	4867.4			13895.9	5028.9			
id: 39049	Langerschei...	43518.1	2556.6			20119.6	12517			
id: 39050	Langerschei...	51889.3	9694.8			9960.7	3612.8			
id: 39051	Wächterbuc...	24548	11060.7			310.85	621.7			
id: 39052	Naturwald N...	30645.3	8975		292.3	4041	2175.9			
id: 39053	Weiersheld (...)	20441.9	4333.3			15542.5	13329.4			
id: 39054	Schlitterley (...)	116852				11172				
id: 39055	B265 Gemün...	27888.5				310.85	310.85			155
id: 39066	Seidewinkel ...	30152.4				932.55	4351.9	7149.5		
id: 39067	Weisskolm (...)	43518.9			310.85		25489.7	8392.9		
id: 39068	Hoyerswerd...	21137.8				7771.2	22381.2	24557.1		
id: 39070	Schlegel Buc...	87037.9	13366.5			310.85	310.85			
id: 39071	Dt-Paulsdorf...	14609.9	8703.8		1865.1		621.7			310
id: 39072	Mückenhai ...	2175.9								
id: 39073	Kreba-Neud...									
id: 39085	Hang am W...		0				0			
id: 39094	Klein Krausc...	12744.8								
id: 41163	Schönbrunn...	33260.9	19894.4		621.7		4973.6			310
id: 41588	Galgenberg ...	13055.7	2797.6	3730.2		4351.9				
id: 41589	Bollenkopf (...)	4662.7	37301.9	12123.1		5284.4				
id: 41590	Schwefeltal ...	18651	6217	3730.2		5284.4				

66 rows

Species

Create contingency tables (= Matrix)

Matrices of categorical values *cannot* be averaged

Export as CSV | **one value exists** | multiple value exists | Help

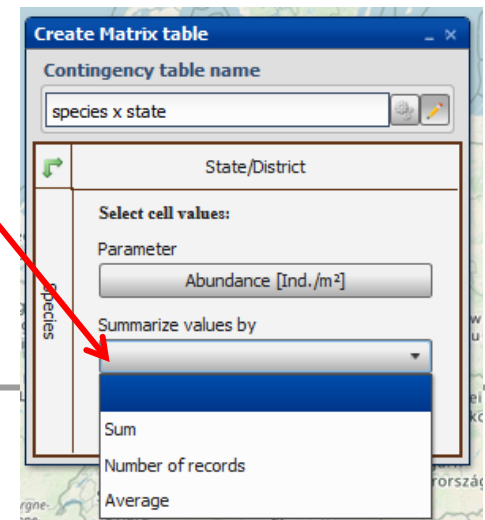
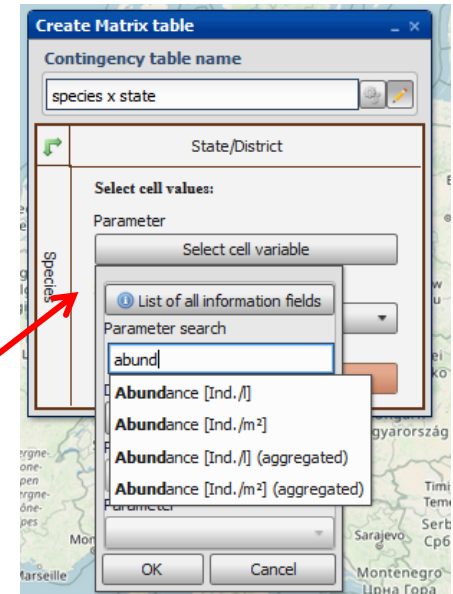
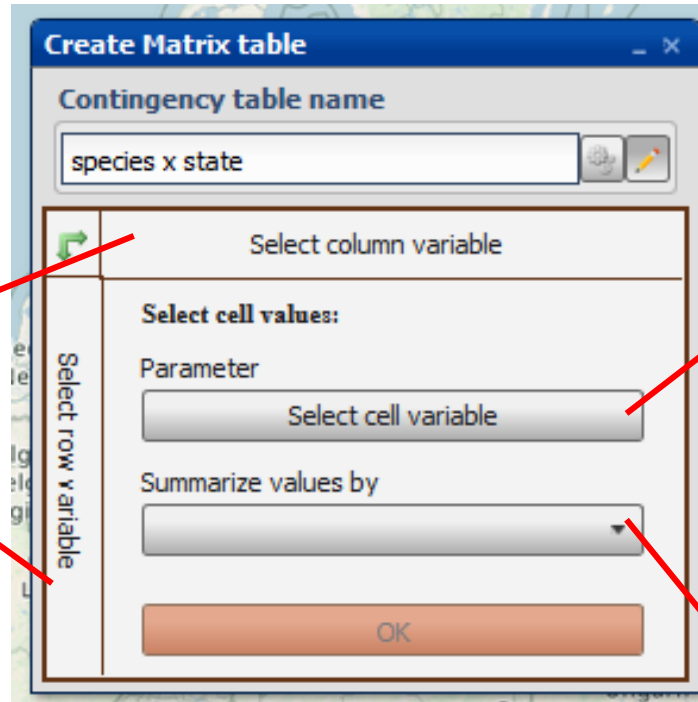
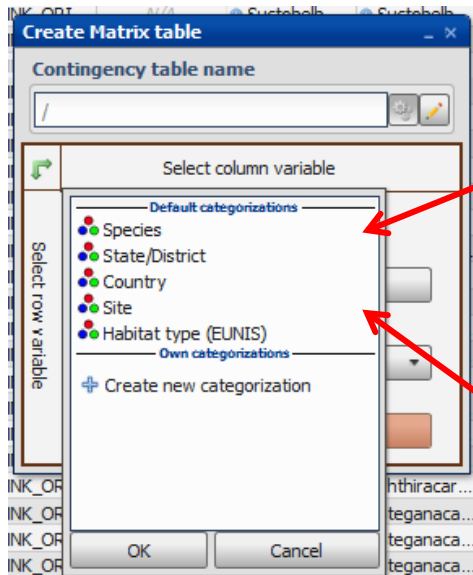
		Source	Source	General geo...	General geo...	General infor...	General infor...	General infor...	General infor...	General infor...	General infor...
		Data source	Document ty...	Country	District	(Anthropoge...	CORINE Lan...	EUNIS habit...	Habitat type...	Habitat type...	Manag
id: -1016	Bernstadt Pli...	SMNG_Ori_02/2455...	Collection o...	Germany (C...	Saxony (Co...						
id: -10292	Sylt Keitume...	Strenzke, K. (1952)...	Article	Germany (C...	Schleswig-H...				Sands, sand...		
id: -10356	Tauchritz Ne...	SMNG_Ori_unnumb...	Collection o...	Germany (C...	Saxony (Co...						
id: -10357	Tauchritz Ne...	SMNG_Ori_97/1865...	Collection o...	Germany (C...	Saxony (Co...						
id: -10358	Tauchritz Ne...	SMNG_Ori_02/2546...	Collection o...	Germany (C...	Saxony (Co...						
id: -106	Aachen Mel...	SMNG_GR-Ori_gr-o...	Collection o...	Germany (C...	North Rhine...	Artificial non...	Small city ce...	Mortared st...			
id: -107	Aachen Mel...	SMNG_GR-Ori_gr-o...	Collection o...	Germany (C...	North Rhine...	Green urban...	Small city ce...	Mortared st...			
id: -10755	Ulm Universi...	Funke, W. at al. (E...	Report	Germany (C...	Baden-Würt...				Fichtenforst...		
id: -11111	Weißenberg...	SMNG_Ori_02/2717...	Collection o...	Germany (C...	Saxony (Co...						
id: -11112	Weißenberg...	SMNG_Ori_02/2546...	Collection o...	Germany (C...	Saxony (Co...						
id: -11114	Weißenberg...	SMNG_Ori_65/E9-2	Collection o...	Germany (C...	Saxony (Co...						
id: -11127	Weißwasser...	SMNG_Ori_08/-1	Collection o...	Germany (C...	Saxony (Co...						
id: -11128	Weißwasser...	SMNG_Ori_09/3770...	Collection o...	Germany (C...	Saxony (Co...						
id: -11129	Weißwasser...	SMNG_Ori_09/3770...	Collection o...	Germany (C...	Saxony (Co...						
id: -11130	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11131	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11132	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11133	Weißwasser...	SMNG_Ori_09/3768...	Collection o...	Germany (C...	Saxony (Co...						
id: -11134	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11135	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11136	Weißwasser...	SMNG_Ori_08/3671...	Collection o...	Germany (C...	Saxony (Co...						
id: -11137	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11138	Weißwasser...	SMNG_Ori_09/3790...	Collection o...	Germany (C...	Saxony (Co...						
id: -11139	Weißwasser...	SMNG_Ori_08/3671...	Collection o...	Germany (C...	Saxony (Co...						
id: -11140	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						
id: -11141	Weißwasser...	SMNG_Ori_08/3671...	Collection o...	Germany (C...	Saxony (Co...						
id: -11142	Weißwasser...	SMNG_Ori_08/-2	Collection o...	Germany (C...	Saxony (Co...						
id: -11143	Weißwasser...	SMNG_Ori_08/3669...	Collection o...	Germany (C...	Saxony (Co...						

Create contingency tables (= Matrix)

Create your own table

Choose values from a data field

Chose columns, rows & values



Choose a „default“ or your own category from the data fields

Let's do it !

Exercise 6)

Select Filter: Taxon → Major Group → “Diplopoda”

Select Filter: Location → Political region → “Germany”

Click “Matrices” button → Create own matrix

In pop-up window:

Select column variable → State District

Select row variable → Species

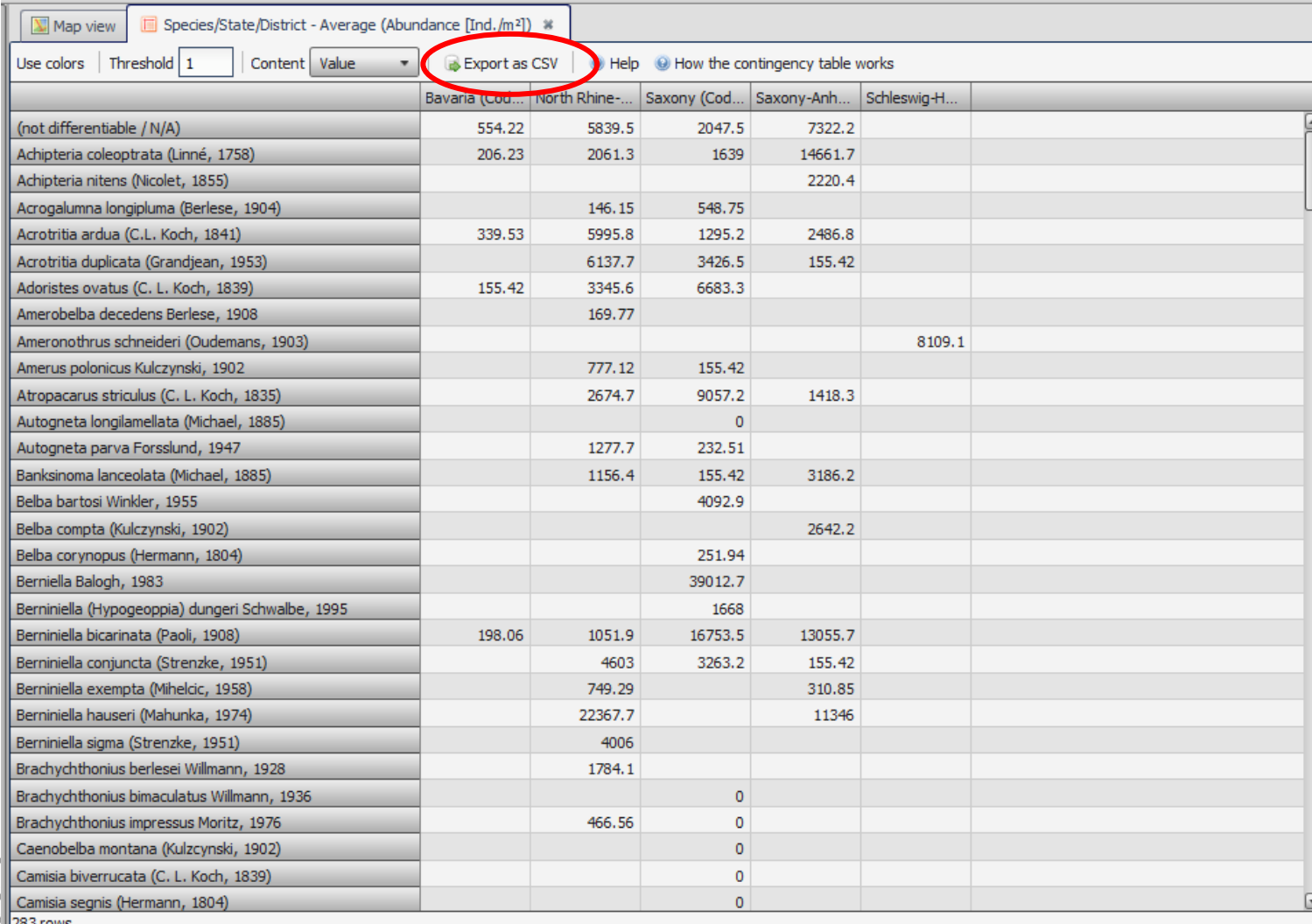
Select cell variable → Count in sample or collection

Summarize values by → Average

Export (download) matrices

For own analyses

Note: only possible for registered users



The screenshot shows a web application interface for data analysis. At the top, there is a title bar with 'Map view' and 'Species/State/District - Average (Abundance [Ind./m²]) *'. Below this is a toolbar with 'Use colors', 'Threshold 1', 'Content Value', and a circled 'Export as CSV' button. The main area contains a table with columns for species and regions: Bavaria (Cod...), North Rhine..., Saxony (Cod...), Saxony-Anh..., and Schleswig-H... The table lists 283 rows of species data with their average abundance values for each region.

	Bavaria (Cod...	North Rhine...	Saxony (Cod...	Saxony-Anh...	Schleswig-H...
(not differentiable / N/A)	554.22	5839.5	2047.5	7322.2	
Achipteria coleoptrata (Linné, 1758)	206.23	2061.3	1639	14661.7	
Achipteria nitens (Nicolet, 1855)				2220.4	
Acrogalumna longipluma (Berlese, 1904)		146.15	548.75		
Acrotritia ardua (C.L. Koch, 1841)	339.53	5995.8	1295.2	2486.8	
Acrotritia duplicata (Grandjean, 1953)		6137.7	3426.5	155.42	
Adoristes ovatus (C. L. Koch, 1839)	155.42	3345.6	6683.3		
Amerobelba decedens Berlese, 1908		169.77			
Ameronothrus schneideri (Oudemans, 1903)					8109.1
Amerus polonicus Kulczynski, 1902		777.12	155.42		
Atropacarus striculus (C. L. Koch, 1835)		2674.7	9057.2	1418.3	
Autogmeta longilamellata (Michael, 1885)			0		
Autogmeta parva Forsslund, 1947		1277.7	232.51		
Banksinoma lanceolata (Michael, 1885)		1156.4	155.42	3186.2	
Belba bartosi Winkler, 1955			4092.9		
Belba compta (Kulczynski, 1902)				2642.2	
Belba corynopus (Hermann, 1804)			251.94		
Berniella Balogh, 1983			39012.7		
Berniella (Hypogeoppia) dungeri Schwalbe, 1995			1668		
Berniella bicarinata (Paoli, 1908)	198.06	1051.9	16753.5	13055.7	
Berniella conjuncta (Strenzke, 1951)		4603	3263.2	155.42	
Berniella exempta (Mihelcic, 1958)		749.29		310.85	
Berniella hauseri (Mahunka, 1974)		22367.7		11346	
Berniella sigma (Strenzke, 1951)		4006			
Brachychthonius berlesesi Willmann, 1928		1784.1			
Brachychthonius bimaculatus Willmann, 1936			0		
Brachychthonius impressus Moritz, 1976		466.56	0		
Caenobelba montana (Kulczynski, 1902)			0		
Camisia biverrucata (C. L. Koch, 1839)			0		
Camisia segnis (Hermann, 1804)			0		

Edaphobase Portal

Functionality and Usage

Block I

- I. Expectations on a soil-biodiversity database
- II. Getting started
- III. Filtering for data; mapping occurrences

Exercises 1 - 4

Block II

- IV. Categorizing (selected) data & Map Views

Exercise 5

- III. Creating and downloading (flat) tables
- IV. Creating contingency tables (= matrices)

Exercise 6

Block III

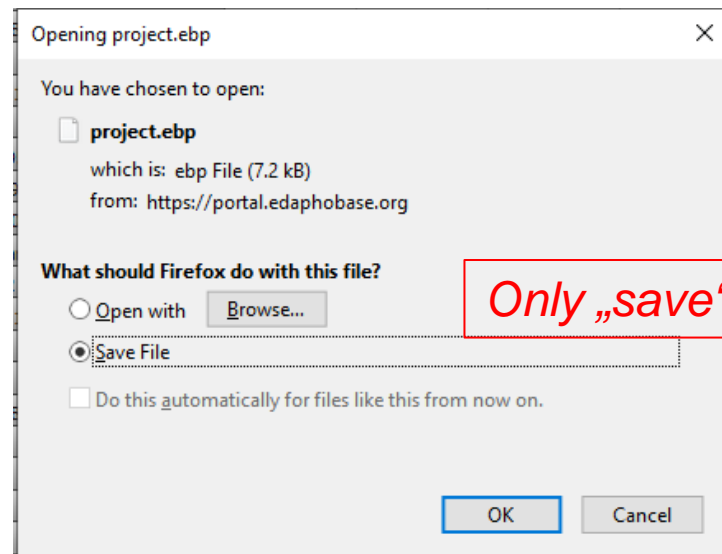
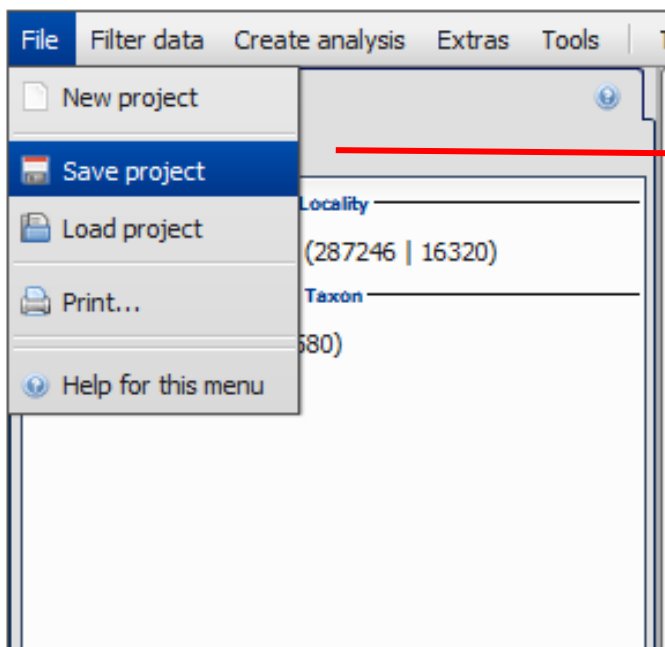
- V. Saving and (re-) loading “projects”, maps**
- VI. Further Information
- VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

Saving / loading projects

File name = *project.ebp* („eadaphobase project“)

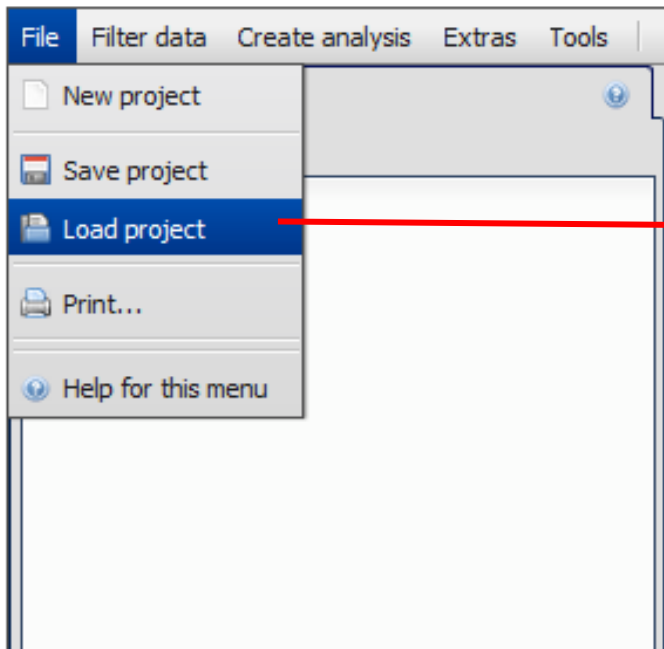
All filters, categorizations, table columns, etc. = saved



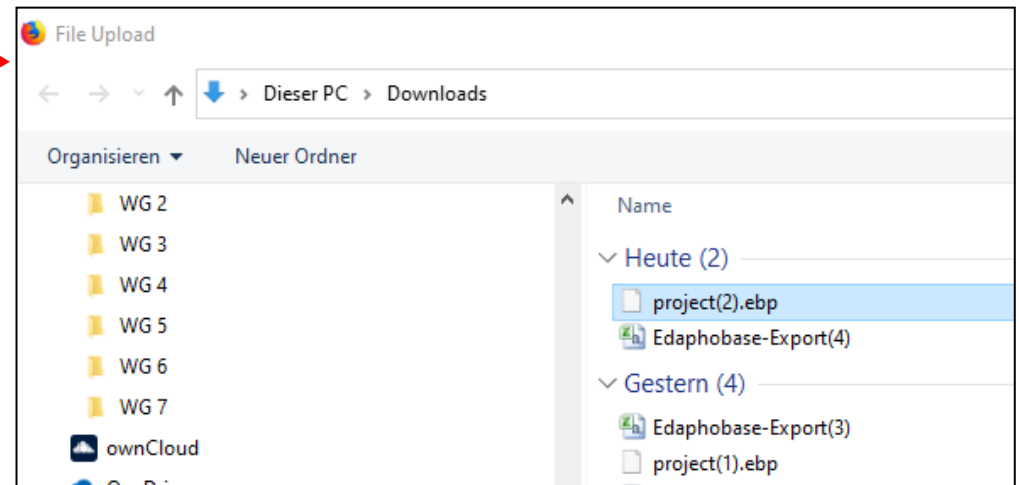
Default = your „Download“ folder

Saving / loading projects

Upload = opposite path



Select ebp-file from file-select dialog



Saving / loading projects

Original “project” automatically set up in Edaphobase

The screenshot displays the Edaphobase Data-Query Portal interface. The browser address bar shows the URL <https://portal.edaphobase.org>. The page title is "edaphobase Data-Query Portal #210318". The user is logged in as "David Russell (drussell)".

The interface is divided into several sections:

- Data filters:** Shows "Locality" as "Germany (Code: DE) (287246 | 16320)" and "Taxon" as "Oribatida (44215 | 1580)". It indicates "38611 observations at 1018 localities found in Edaphobase".
- Analyses:** Shows "Categorize data" with "Species" and "State/District" selected. The "Contingency table" section is active, displaying "Species/State/District - Average (Abundance [Ind./m?])".
- Table:** A contingency table showing the average abundance of various species across different states/districts. The table has columns for "Bavaria (Cod...", "North Rhine...", "Saxony (Cod...", "Saxony-Anh...", and "Schleswig-H...". The rows list species names, such as "(not differe...", "Achipteria c...", "Achipteria ni...", "Acrotritia ar...", "Acrotritia du...", "Adoristes ov...", "Amerobelba ...", "Ameronothr...", "Amerus polo...", "Atropacarus...", "Autogneta l...", "Autogneta p...", "Banksinoma ...", "Belba bartos...", "Belba compt...", "Belba coryn...", "Berniella Bal...", "Berniella (...", "Berniella bi...", "Berniella c...", "Berniella e...", "Berniella h...", "Berniella si...", "Brachychtho...", "Brachychtho...", "Brachychtho...", "Caenobelba ...", "Camisia bive...", and "Camisia seg...".

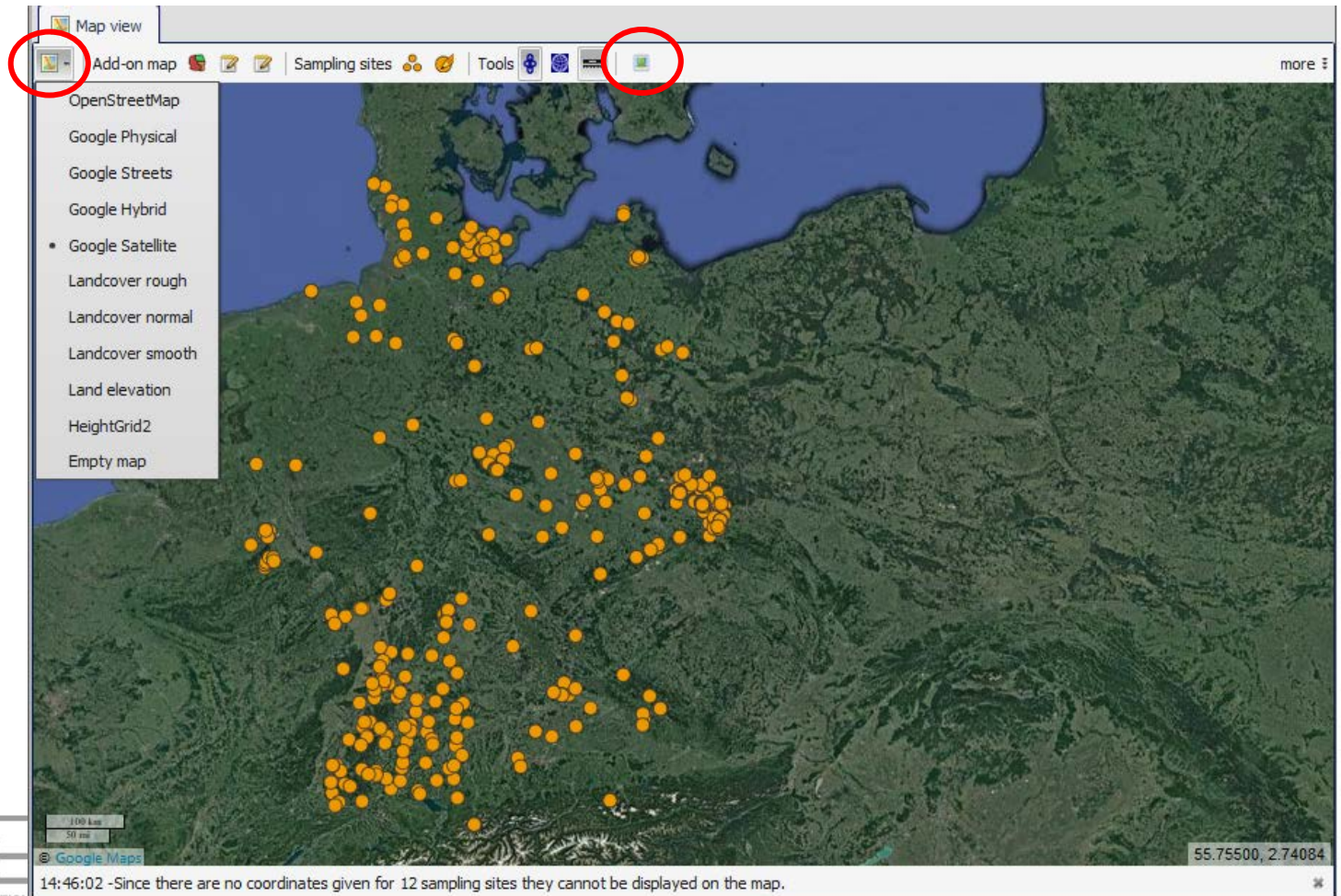
	Bavaria (Cod...	North Rhine...	Saxony (Cod...	Saxony-Anh...	Schleswig-H...
(not differe...	554.22	5839.5	2047.5	7322.2	
Achipteria c...	206.23	2061.3	1639	1466.17	
Achipteria ni...				2220.4	
Acrogalumn...		146.15	548.75		
Acrotritia ar...	339.53	5995.8	1295.2	2486.8	
Acrotritia du...		6137.7	3426.5	155.42	
Adoristes ov...	155.42	3345.6	6683.3		
Amerobelba ...		169.77			
Ameronothr...					8109.1
Amerus polo...		777.12	155.42		
Atropacarus...		2674.7	9057.2	1418.3	
Autogneta l...			0		
Autogneta p...		1277.7	232.51		
Banksinoma ...		1156.4	155.42	3186.2	
Belba bartos...			4092.9		
Belba compt...				2642.2	
Belba coryn...			251.94		
Berniella Bal...			39012.7		
Berniella (...			1668		
Berniella bi...	198.06	1051.9	16753.5	13055.7	
Berniella c...		4603	3263.2	155.42	
Berniella e...		749.29		310.85	
Berniella h...		22367.7		11346	
Berniella si...		4006			
Brachychtho...		1784.1			
Brachychtho...			0		
Brachychtho...		466.56	0		
Caenobelba ...			0		
Camisia bive...			0		
Camisia seg...			0		

Saving maps

First, set up the map in map view as desired
(Tip: orient towards the left)

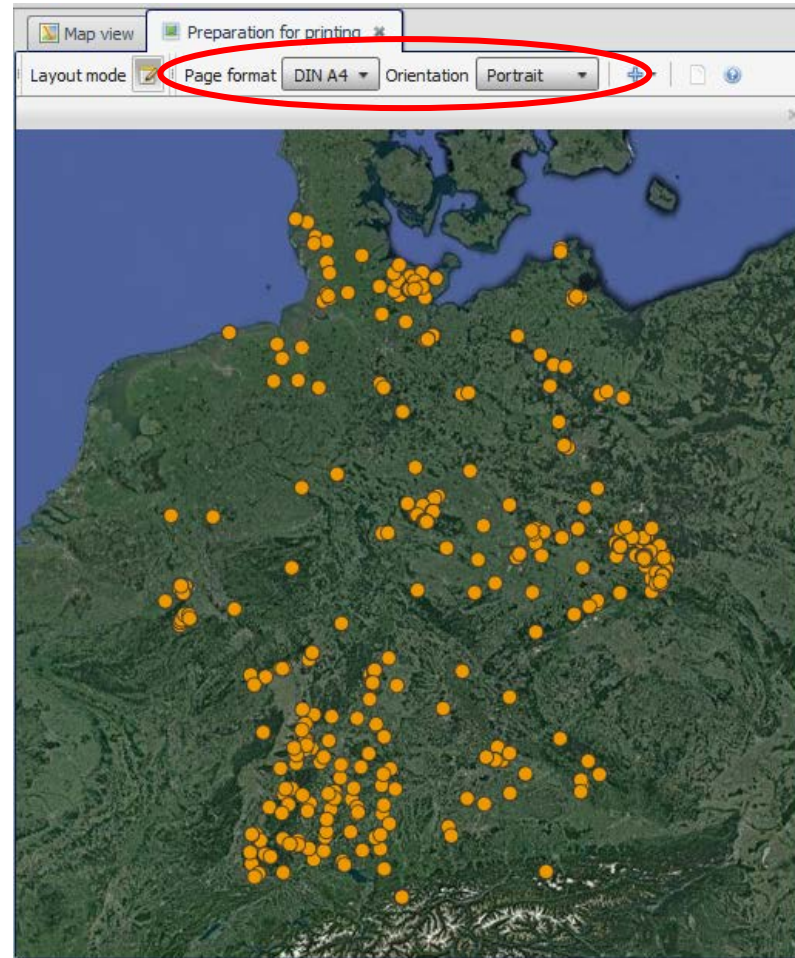
Then, click “add to print view” button

*i.e., with a
physical
map
background*



Saving maps

A new tab open in the view window
→ automatically in “Edit layout” mode

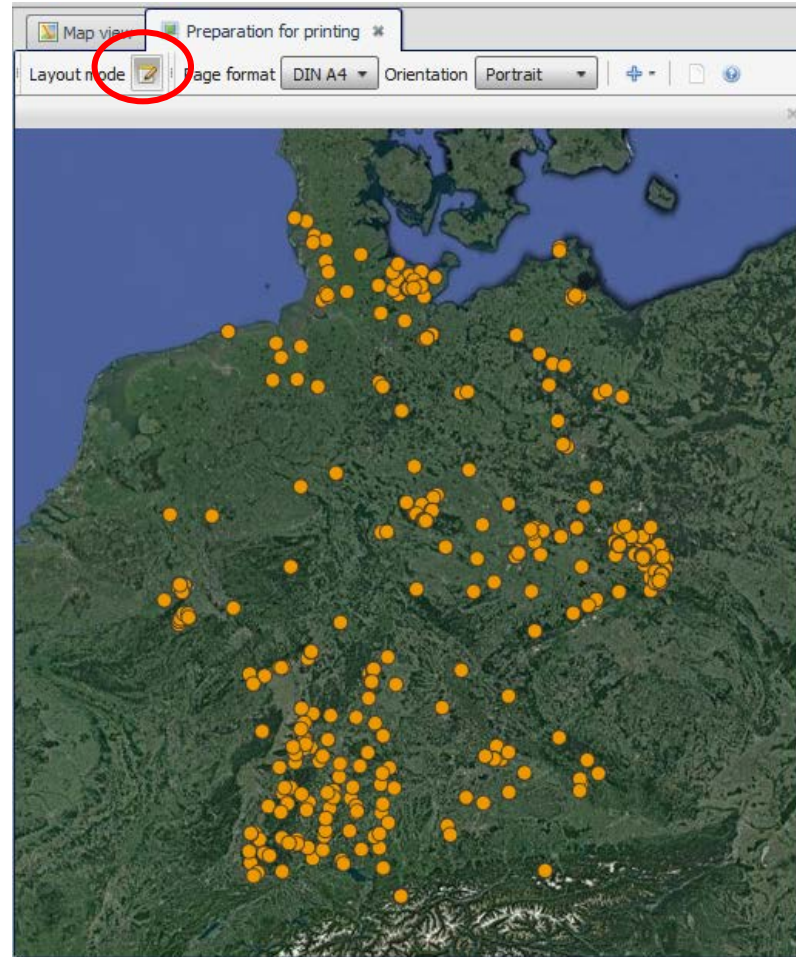


*Drag and drop
map extract
to best orientation*

*Set format and
orientation*

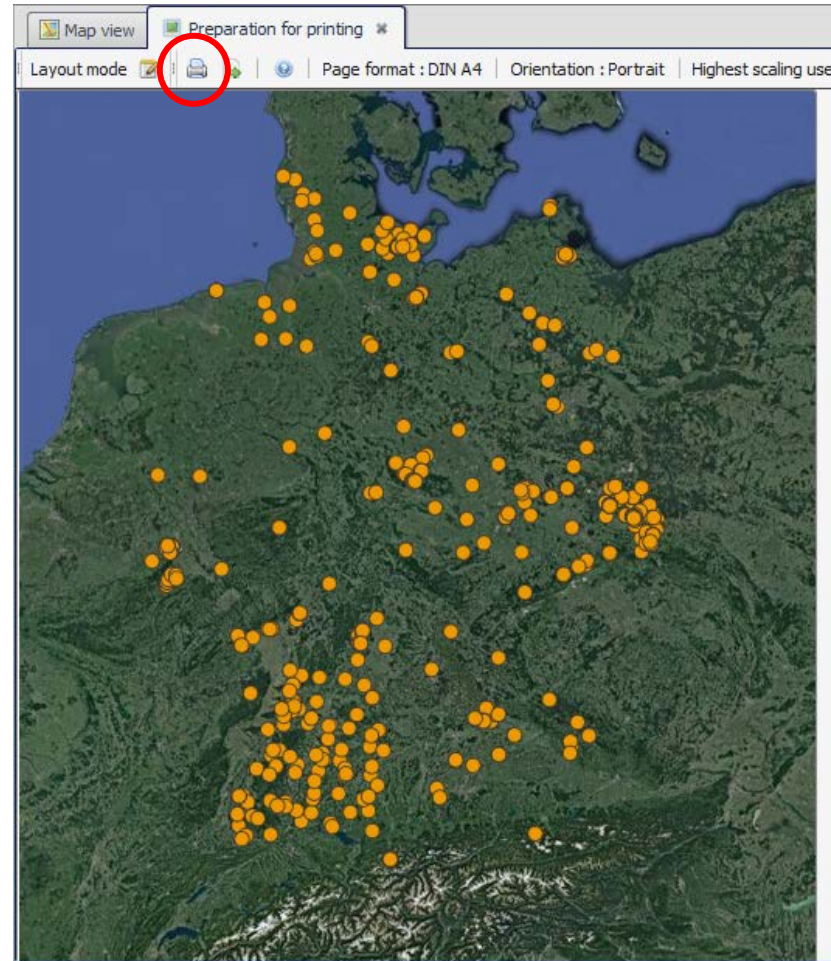
Saving maps

Exit “Edit layout” mode



Saving maps

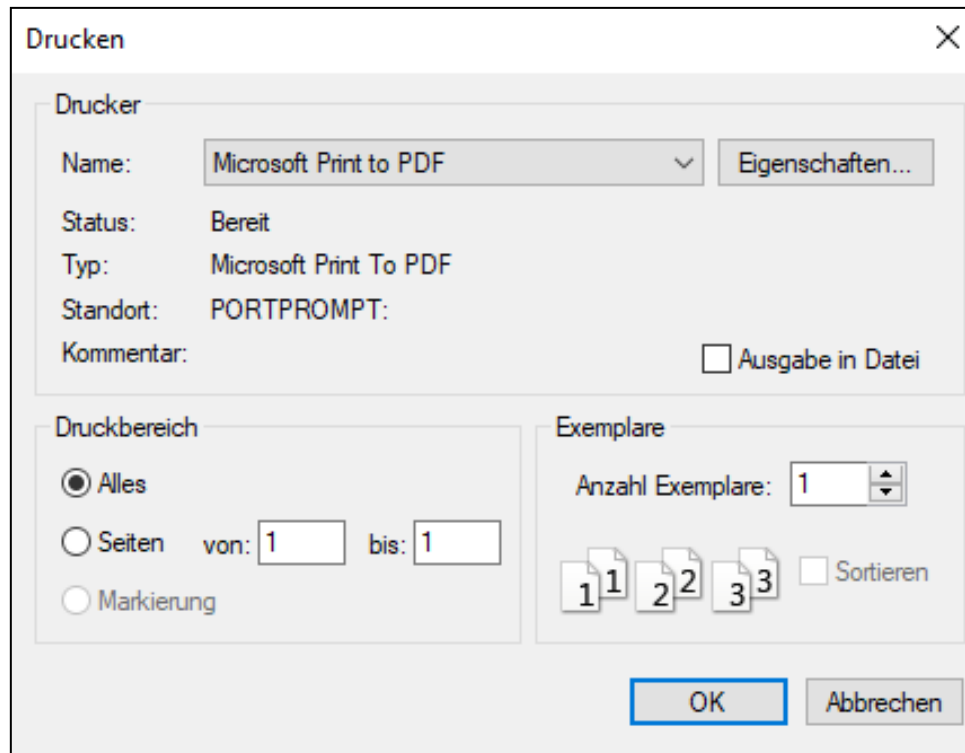
Click “Print” button



Saving maps

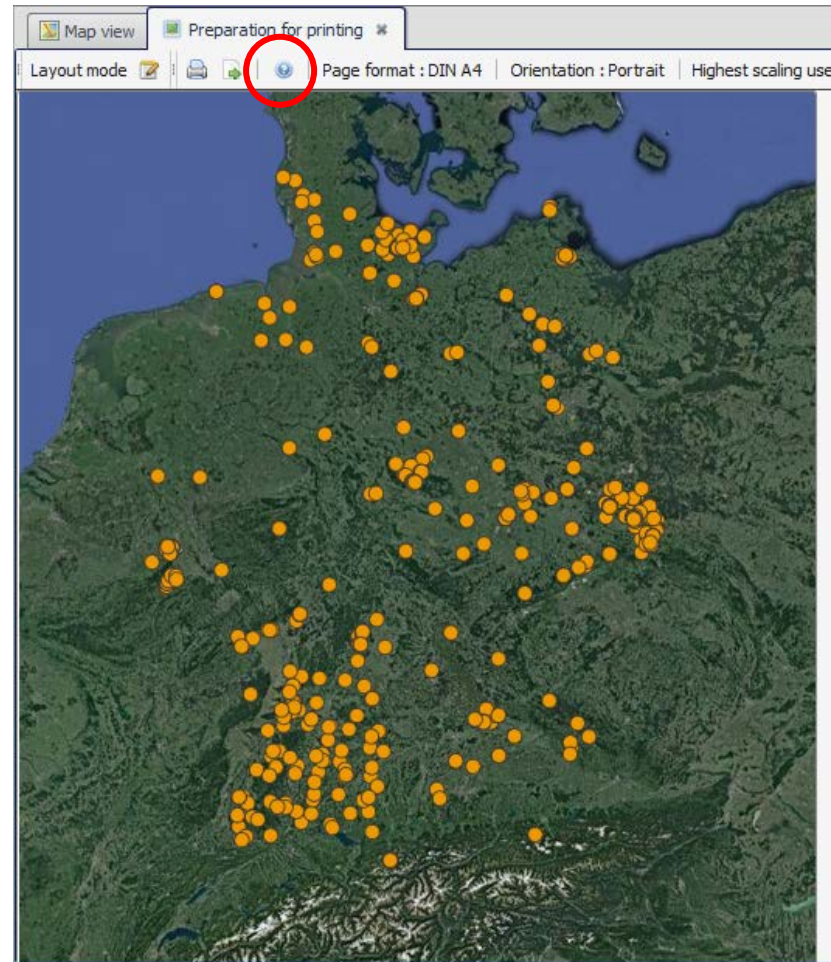
Standard print dialog opens

- Printer
- Save as PDF



Saving maps

Click “Help” button for details on saving as PDF



Edaphobase Portal

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Exercise 5

- III. Creating and downloading (flat) tables
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Exercise 6

Block III

- V. Saving and (re-) loading “projects”, maps

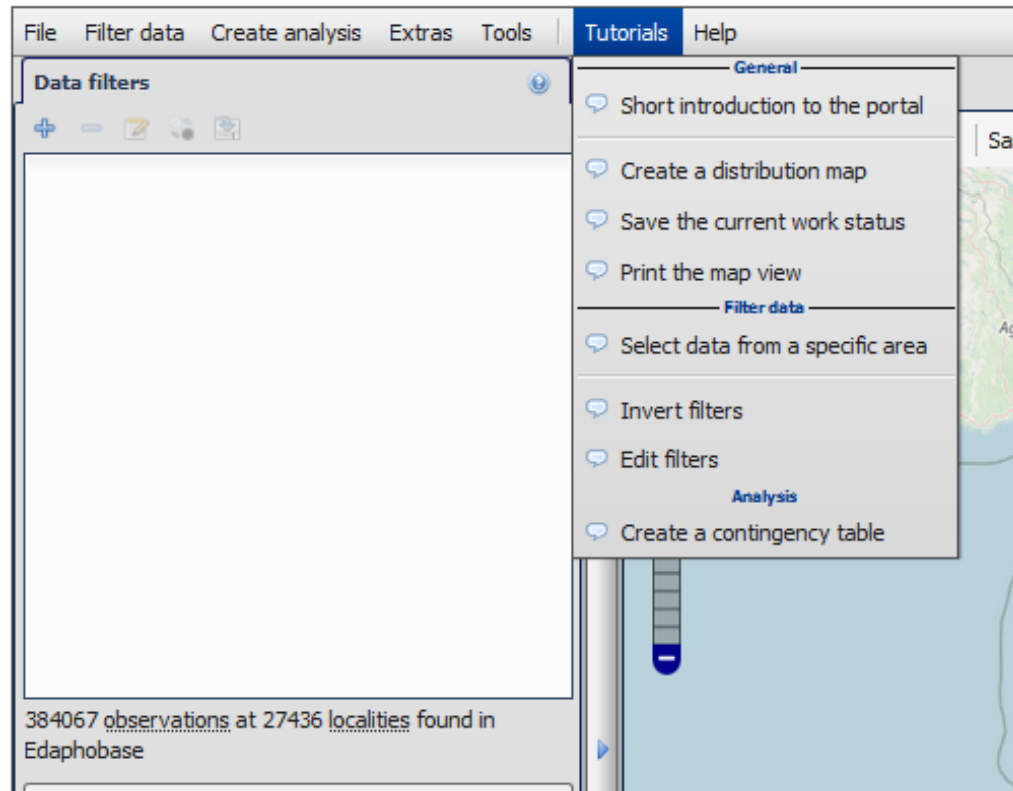
VI. Further Information

- VII. In brief: Assessment tools (“EdaphoStat”)

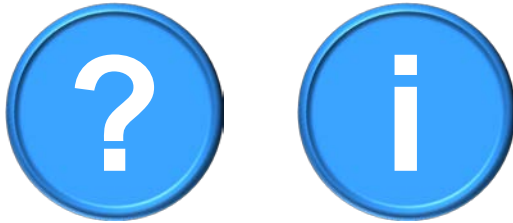
Exercise 7

Further Information and help

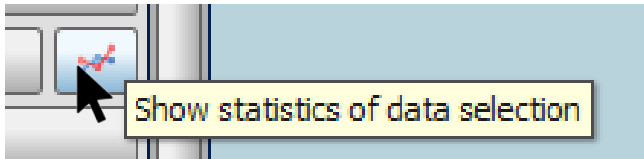
Guided “tutorials”



Further Information and help



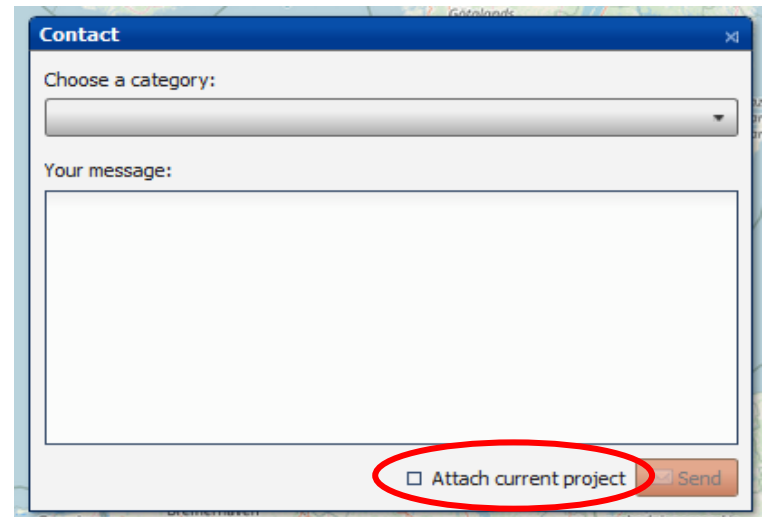
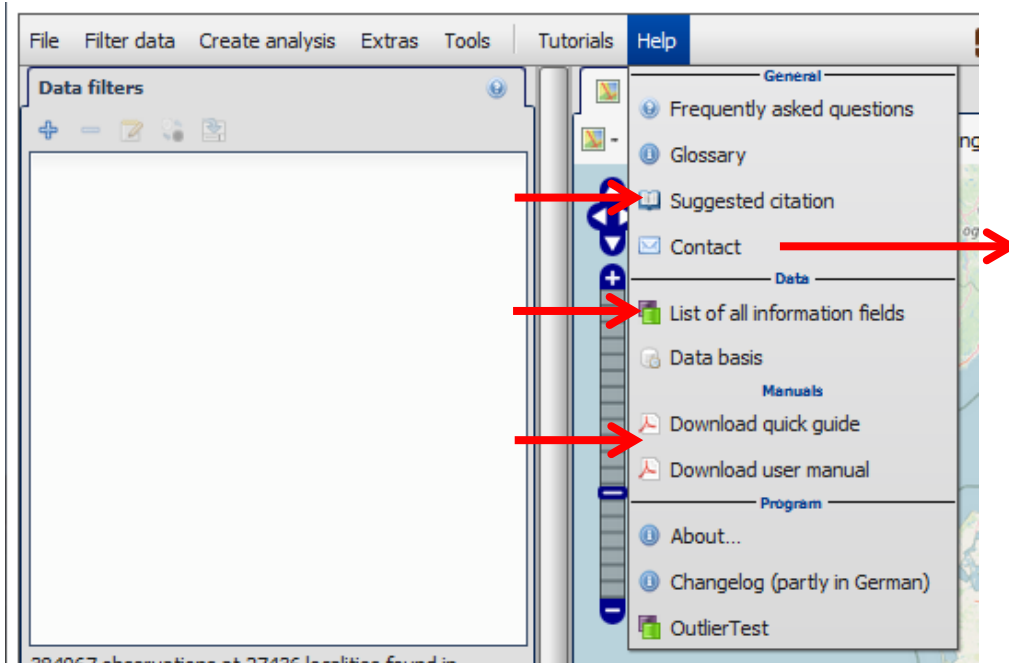
Help and Info buttons



Tooltips

Further Information and help

Help Menu



Edaphobase Portal

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- VI. Further Information

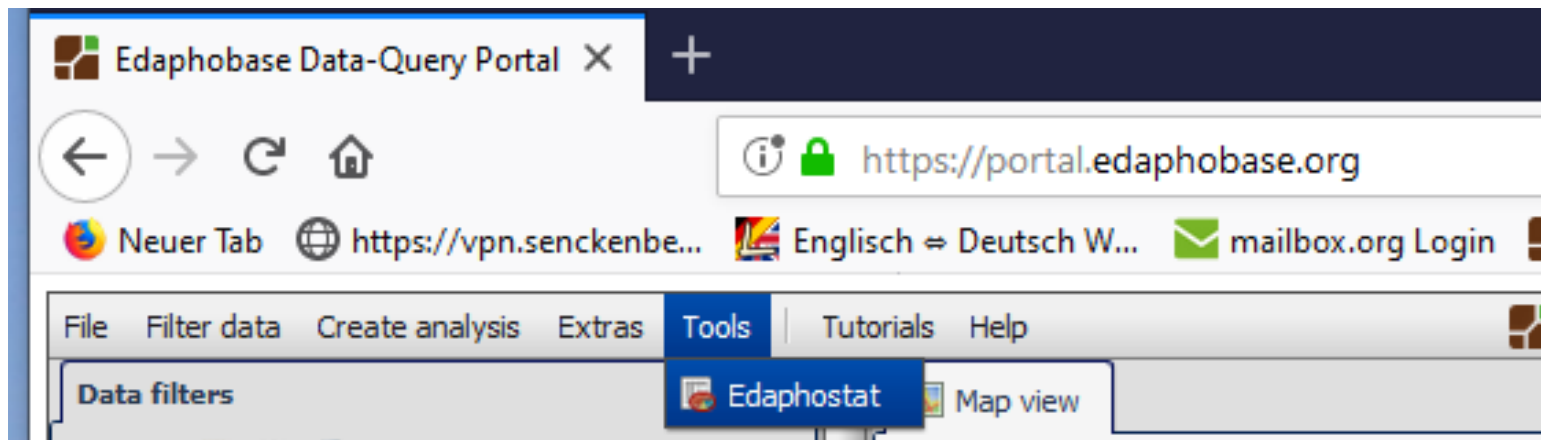
VII. In brief: Assessment tools (“EdaphoStat”)

Exercise 7

Assessment tools → EdaphoStat

(Work in Progress *[paused]*)

= basic descriptive analyses of species and habitat parameters
(niche space; species level)



Assessment tools → EdaphoStat

Initial Set-up

Welcome to Edaphostat – Setup Menu

Edaphostat is a tool for ecological analysis of Edaphobase data. You can use it to analyze data records based on the data selection on the left hand side; the data will be automatically pre-processed for analysis and visualization. Edaphostat is completely written in R. For further information and help please refer to the [Edaphostat-manual](#).

Taxonomic major group

Please choose a major taxonomic group whose species are to be analyzed.

In order for Edaphostat to work properly, every other taxon-related filter has to be removed from the data selection (left hand side). To do so, please click the button on the right (Remove other taxa selection).

Species quantity

Please choose a species-quantity. Edaphostat will analyze records measured in the chosen quantity in comparison to presence/absence data (from all records). If you want to include only records with the chosen quantity value present, please click on "Only quantity records".

Data filters

Edaphostat uses certain selection elements to include only data suitable for analysis. The data filters chosen below will be used together with those already selected on the top left as soon as you click on "Create data filter". The filters can be categorized as **mandatory**, **recommended** (to exclude data not suited for the analysis in Edaphostat), or **suggested** (for possible interesting analyses).

Only records with side identifier	<input type="button" value="Create data filter"/>
Only records from systematic sampling	<input type="button" value="Create data filter"/>
No experimental sites	<input type="button" value="Create data filter"/>
Only records from quantitative sampling	<input type="button" value="Create data filter"/>
Only German sites	<input type="button" value="Create data filter"/>

Clicking on the button below prepares the necessary data and adds it to the Analyses area (bottom left). Please note that Edaphostat starts in a new tab, thus you may have to allow your browser to open this popup window.

Red arrows point to the 'Choose group' button, the 'Abundance [Ind./m²]' button, and the 'Create data filter' button for 'Only records with side identifier'.

Assessment tools → EdaphoStat

Edaphostat - Ver. 1.2 © Institute for Environmental Research
RWTH Aachen University

Welcome

Select a species:
Lumbricus terrestris Linnaeus, 1758

- Bar chart: num Parameter
- Bar chart: non-num Parameter
- Niche space diagram
- Environmental response

EdaphoClass BETA

Edaphostat

Tools for data analysis

[Quick Guide](#)

Your dataset

Chosen species group:	Lumbricidae	Presence/ Absence	Abundance [Ind./m²]
Chosen species quantity:	Abundance [Ind./m ²]	Number of sites	1263
Data accessed:	Thu Mar 18 16:39:02 2021	Number of species	45
			81
			22

edapho base

INSTITUTE FOR ENVIRONMENTAL RESEARCH | RWTH AACHEN UNIVERSITY

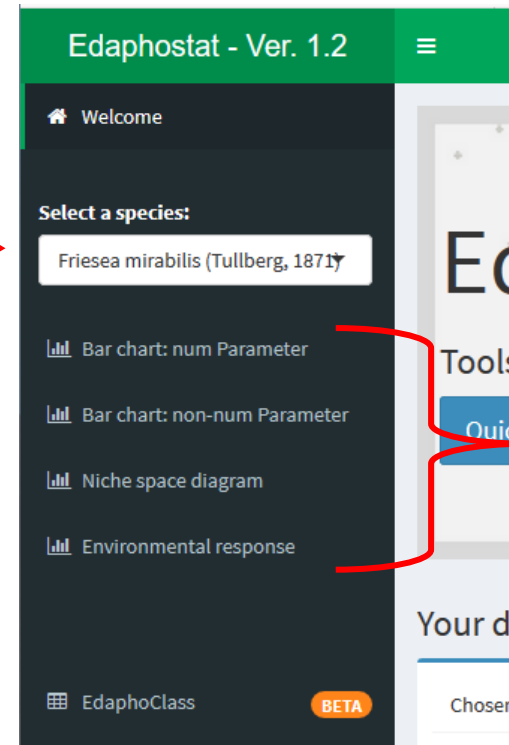
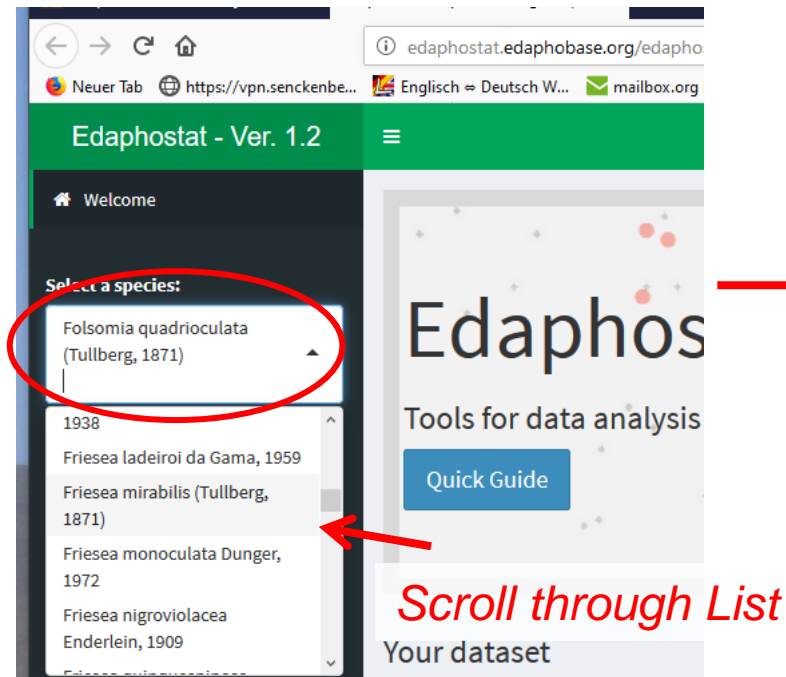
SPONSORED BY THE
Federal Ministry of Education and Research

Assessment tools → EdaphoStat

First steps:

1) select a species

2) Choose an analysis type



→ frequencies
→ frequencies
→ scatter plots
→ regression

Assessment tools → EdaphoStat

Frequency bar graph: numerical parameter

3) select a parameter

Edaphostat - Ver. 1.2

Welcome

Select a species:

Isotoma viridis Bourlet, 1839

Bar chart: num Parameter

Bar chart: non-num Parameter

Niche space diagram

Environmental response

863
Number of sites

255
Number of presence values

Options

Choose an environmental parameter:

pH

View data

Expert options

Number of classes

2 10

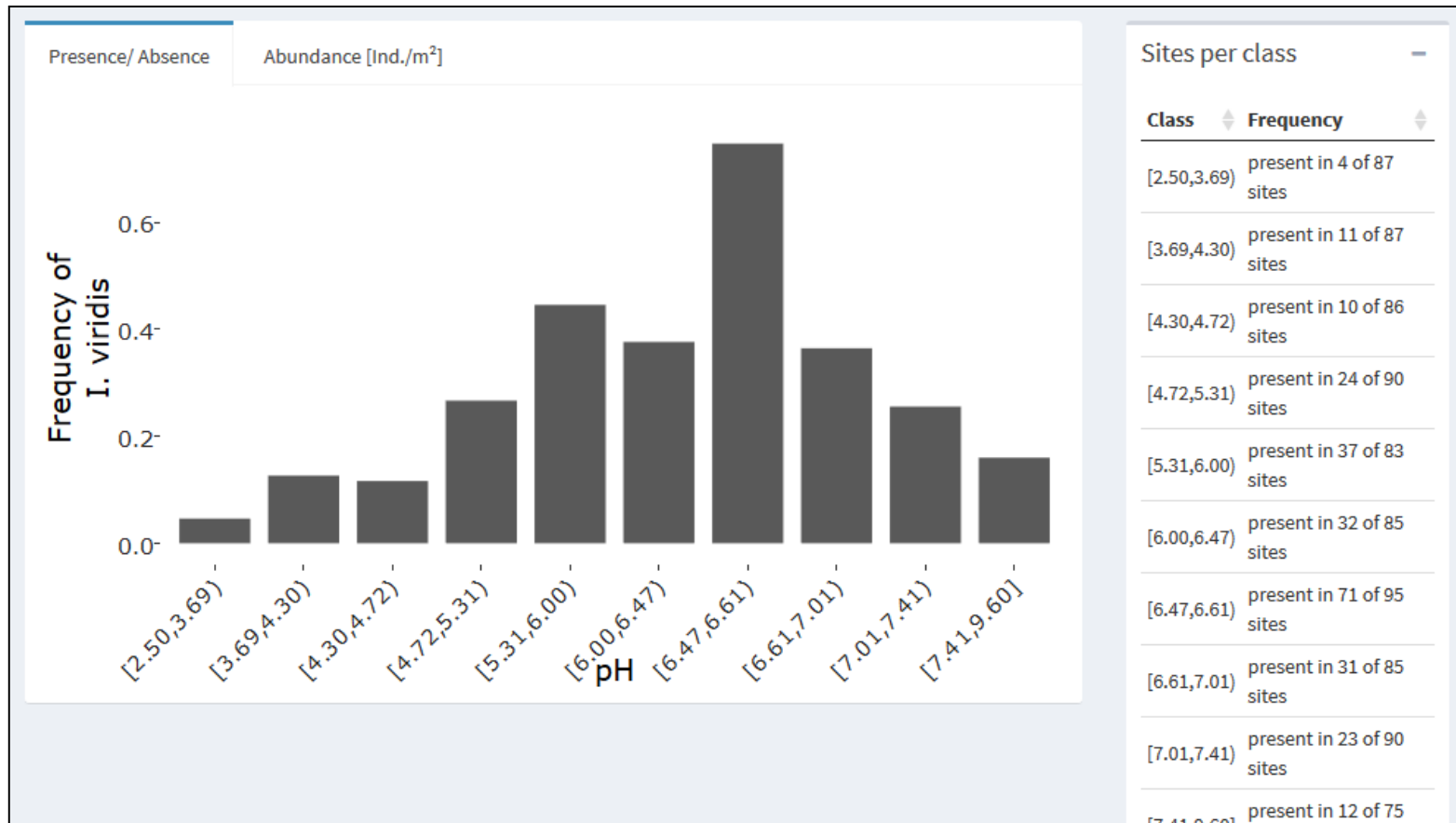
2 3 4 5 6 7 8 9 10

Choose your own class limits

Choose classification system

Assessment tools → EdaphoStat

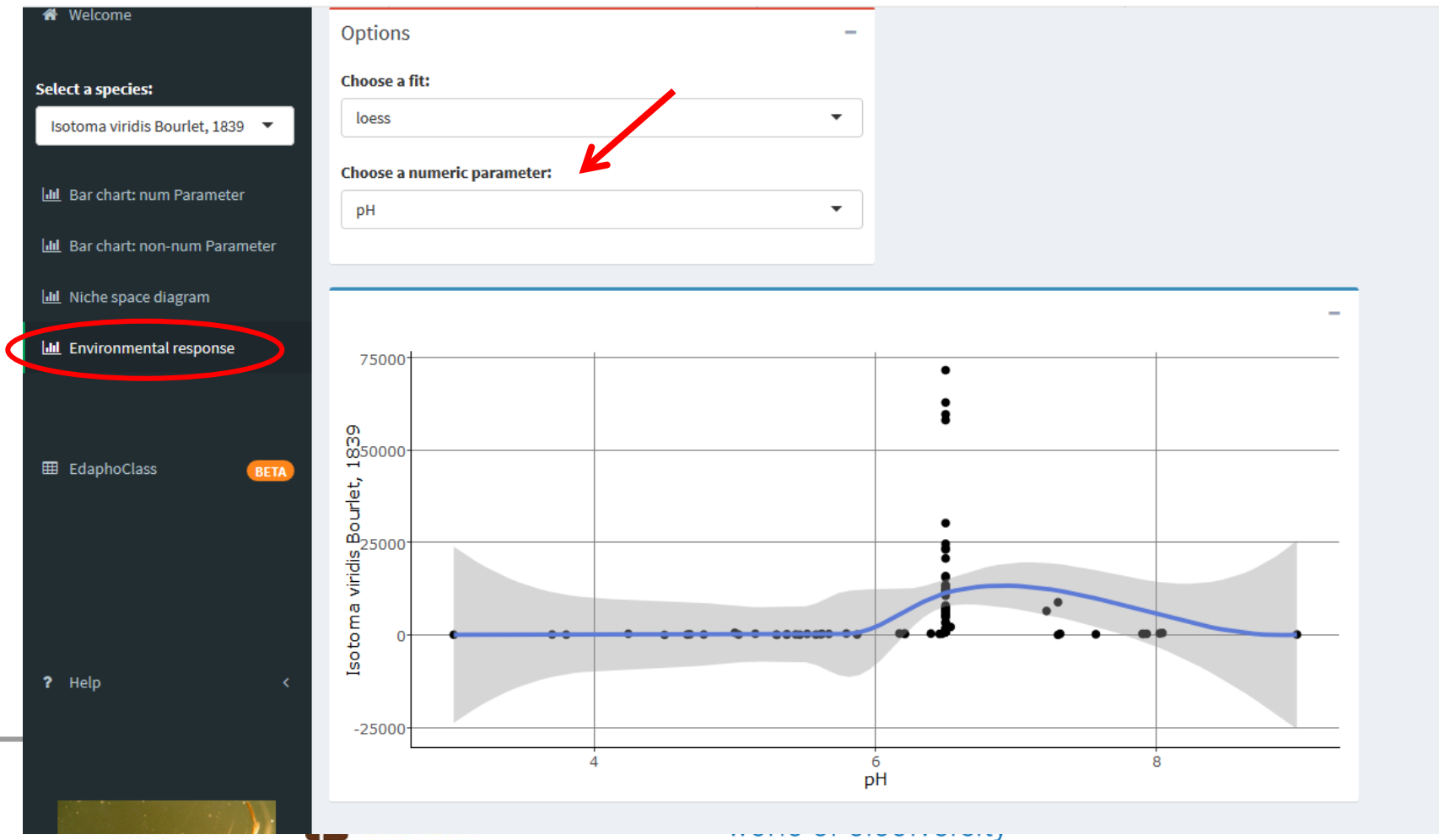
Frequency bar graph: numerical parameter



Assessment tools → EdaphoStat

Regression: numerical parameter

3) select a parameter



Assessment tools → EdaphoStat

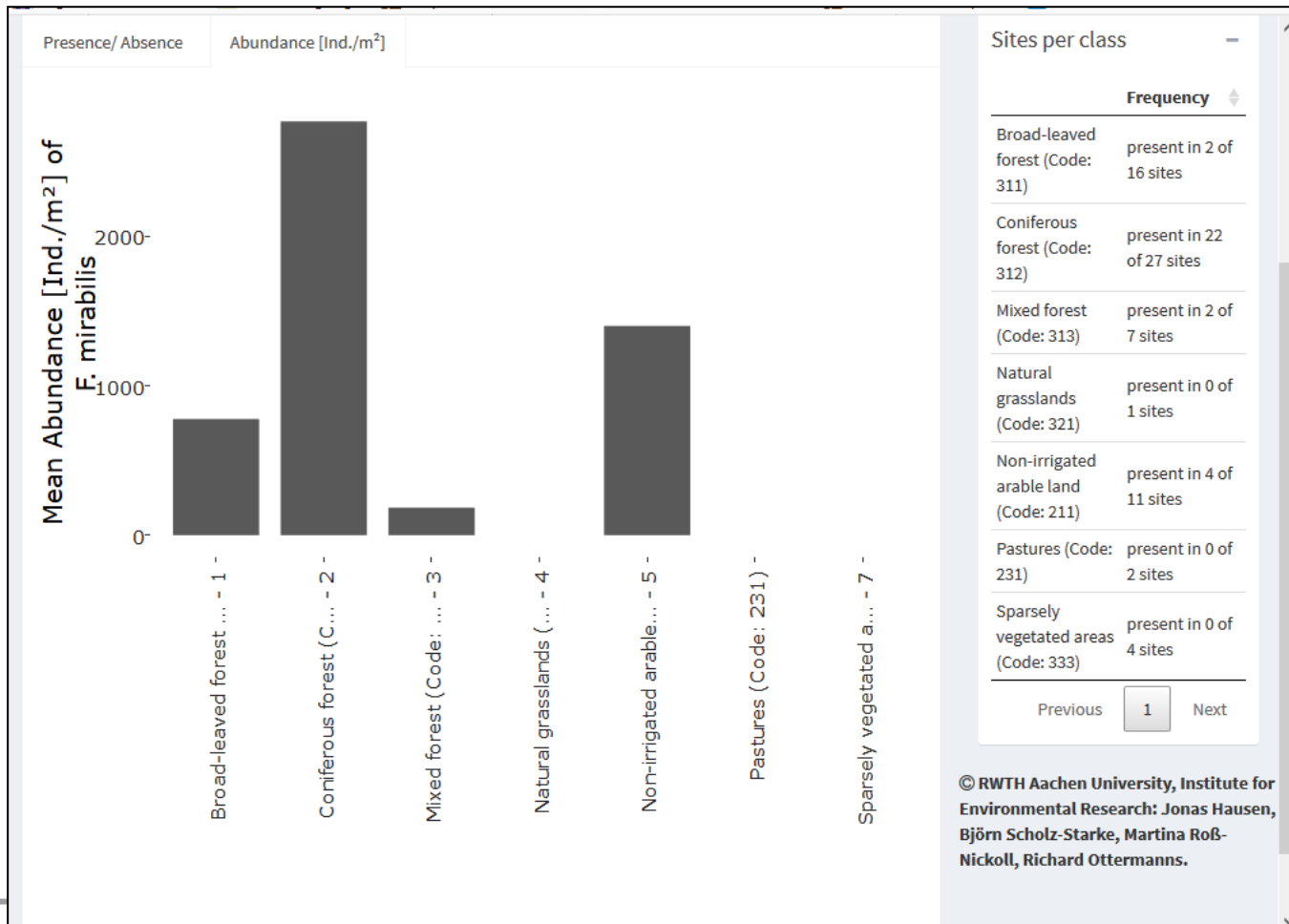
Frequency bar graph: categorical parameter

3) select a parameter

The screenshot displays the Edaphostat - Ver. 1.2 web interface. The left sidebar contains a 'Welcome' message and a 'Select a species:' dropdown menu with 'Friesea mirabilis (Tullberg, 1871)' selected. Below this, there are four navigation options: 'Bar chart: num Parameter', 'Bar chart: non-num Parameter' (circled in red), 'Niche space diagram', and 'Environmental response'. The main content area shows a large green box with the number '68' and the text 'Number of sites'. To the right, another green box shows the number '30' and the text 'Number...'. Below these, there is an 'Options' section with a 'Choose a parameter:' dropdown menu set to 'CORINE Land Cover (CLC) level 3'. A red arrow points to this dropdown menu. There is also a 'View data' button and a checkbox labeled 'Only display classes with presence values'.

Assessment tools → EdaphoStat

Frequency bar graph: categorical parameter



Assessment tools → EdaphoStat

Niche-space scatter plot

3) select two parameters

Edaphostat - Ver. 1.2

Welcome

Select a species:

Mesaphorura krausbaueri Börner, 1901

Bar chart: num Parameter

Bar chart: non-num Parameter

Niche space diagram

Options

Select a parameter (x-axis):

C/N

Select a parameter (y-axis):

pH

Select a second species (optional):

Mesaphorura tenuisensillata Rusek, 1974

Expert options

Show only presence values

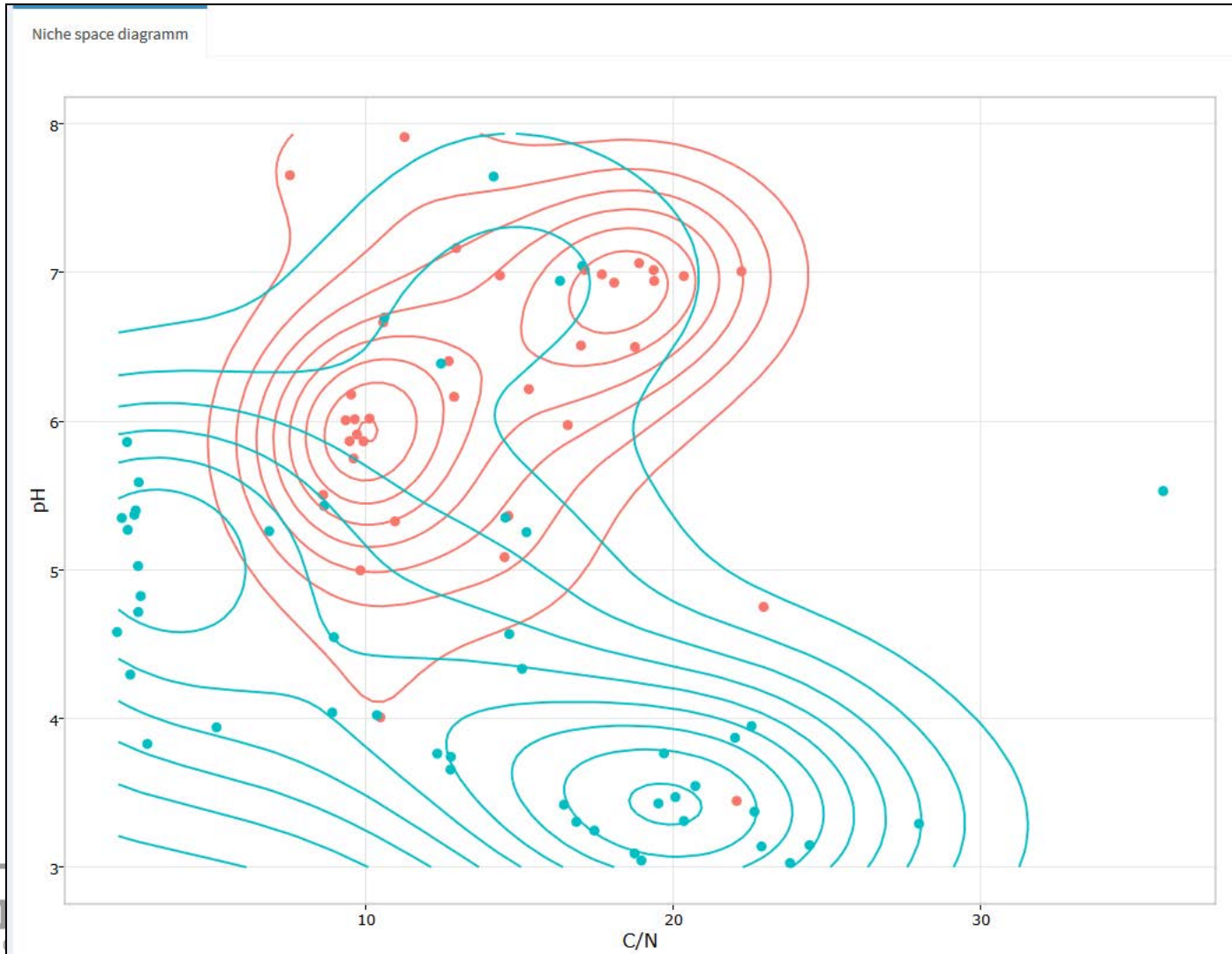
Jitter

Add density lines

4) optional: 2nd species

Assessment tools → EdaphoStat

Niche-space scatter plot



Let's do it !

Exercise 7)

Menu Tools → EdaphoStat

In pop-up window:

Choose group → Collembola

Only records with site identifier → Create data filter

→ Start EdaphoStat

In EdaphoStat Tab:

a) Select a species → “*Isotoma viridis*”

Click: “Bar chart: num Parameter”

Choose a parameter → pH

b) Select a species → “*Mesaphorura krausbaueri*”

Click: “Niche Space diagram”

Select a parameter → (X-axis) C/N : (y-axis) (pH)

Expert options → check “Add density lines”

Select second species → “*Mesaphorura tenuisensillata*”

In summary

Edaphobase Portal currently focussed on:

- Linking species occurrence, spatial data and environmental data
- → via data filtering and categorization
- Output = maps, tables (downloads), descriptive analysis tools

Future developments:

- Use traits to group taxa to functional groups
- Include external data for better functional analyses
- Expand the assessment tools

Growing
ideas
through
networks

Cost Action CA 18237



Previous online training courses:

- Edaphobase Data Structures

Upcoming online training courses:

- Use of Data-Upload “Wizard”

David Russell, Steffan Lesch, Sebastian Kick (Senckenberg, Germany)

Thank you for your
Interest
Time
Attention
Patience
Trust

Cost Action CA 18237



and especially ed[medien] Görlitz (<https://edmedien.de>)
for the friendly, technical support !

Edaphobase Portal - Use and Functions

Online Training Course ("Webinar"®)

David Russell, Stephan Lesch, Sebastian Rick (Senckenberg, Germany)