

WebGR User's manual



The WebGR Consortium
(<http://webgr.wiki.azti.de>)

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1 Applications' web address

You can find the Beta version of WebGR - Web services for support of Growth and Reproduction Studies under the URL:

<http://preview.webgr.zadi.de/>

The web address is dependent of your installation of WebGR, so your contact partner will be your local system administrator.

- Start your browser Firefox version 3.
- Enter the address. After that the WebGR application website should be visible.
- For further using make sure the latest Flash plugin is installed.

2 User groups and rights

The user rights are divided into two levels of availability. The first level is the user level. A user is true for the whole application. The second level is the participant level. A participant is only true for one calibration exercise.

2.1 User role rights

group 1 (guest)

- can visit public part (start page, contact or Terms of service)
- create own new account (user)

group 2 (reader)

- succeed rights from guest
- login into the non-public part
- make temporary annotations / private calibration exercise
- search for images, annotations or fish

group 3 (data manager)

- succeed rights from reader
- upload, edit and delete own image files and fish data
- edit own fish and image optional parameter
- administrate the keys (maturity, stage)

group 4 (workshop manager)

- succeed rights from data-manager and coordinator
- edit own workshop settings
- declare WebGR reference annotation for his expertise
- create new calibration exercise

group 5 (admin)

- succeed rights from each workshop manager and data manager
- administrate the whole application
- administrate users / user roles
- start new workshop and set a new manager

2.2 Participant role rights

The participant role rights are always limited by the expertise of the user; these roles deal only with participants.

group 6 (trainee)

- succeed rights from reader
- create and edit own annotations
- read all workshop results
- declare group accepted annotations

group 7 (expert)

- succeed rights from trainee
- upload, edit and delete own image files and fish data

group 8 (coordinator)

- succeed rights from data manager and expert
- administrate participants (add, remove participants and admin their role membership)
- declare calibration-exercise annotations
- upload information files (pdf-files, links)
- edit own calibrations settings
- declare WebGR reference annotations

3 Guest



Figure 1: Start screen and registration form

3.1 Register and login

You have to click "Register a new user" to create a new account (see Figure 1).

After filling the form click "Submit". The system sends an e-mail to the given e-mail address. You have to click the link inside the mail for a confirmation.

After the confirmation click any function on the menu, e.g. "My user data" and log-in into WebGR with your new account (see Figure 2).

Click on "My user data" to change your personal settings and password if you want to.

4 Reader (Quick start/Training exercise)

Every confirmed user gets the status „Reader“. Now you can be invited to calibration exercises.

In the meantime you can search the database for fishes and images and run training calibration exercises.

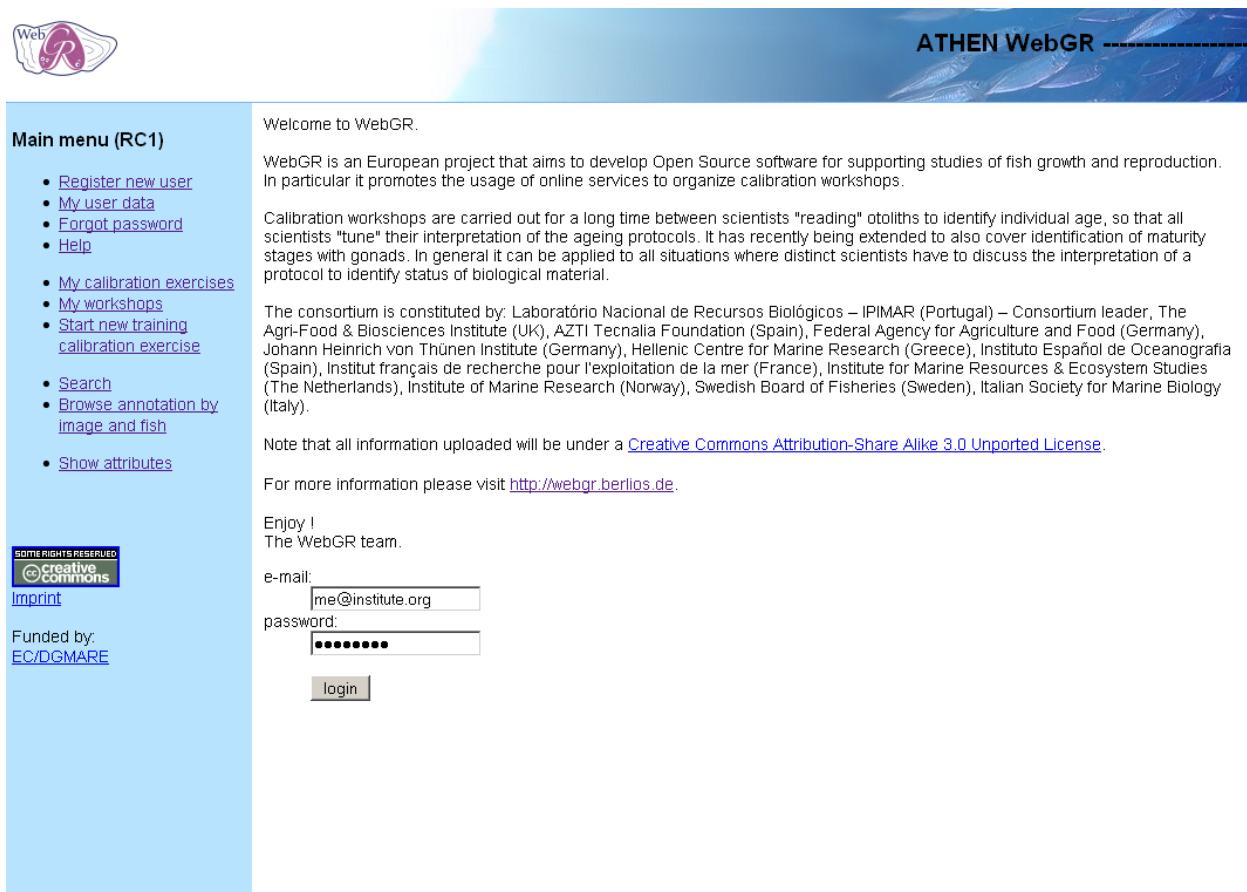


Figure 2: Log-in into WebGR

4.1 Training calibration exercise

Choose the training calibration exercise you want to look at (see Figure 3).

Note: If you want to continue an old exercise click on “My calibration exercises”. You will see it in the list.

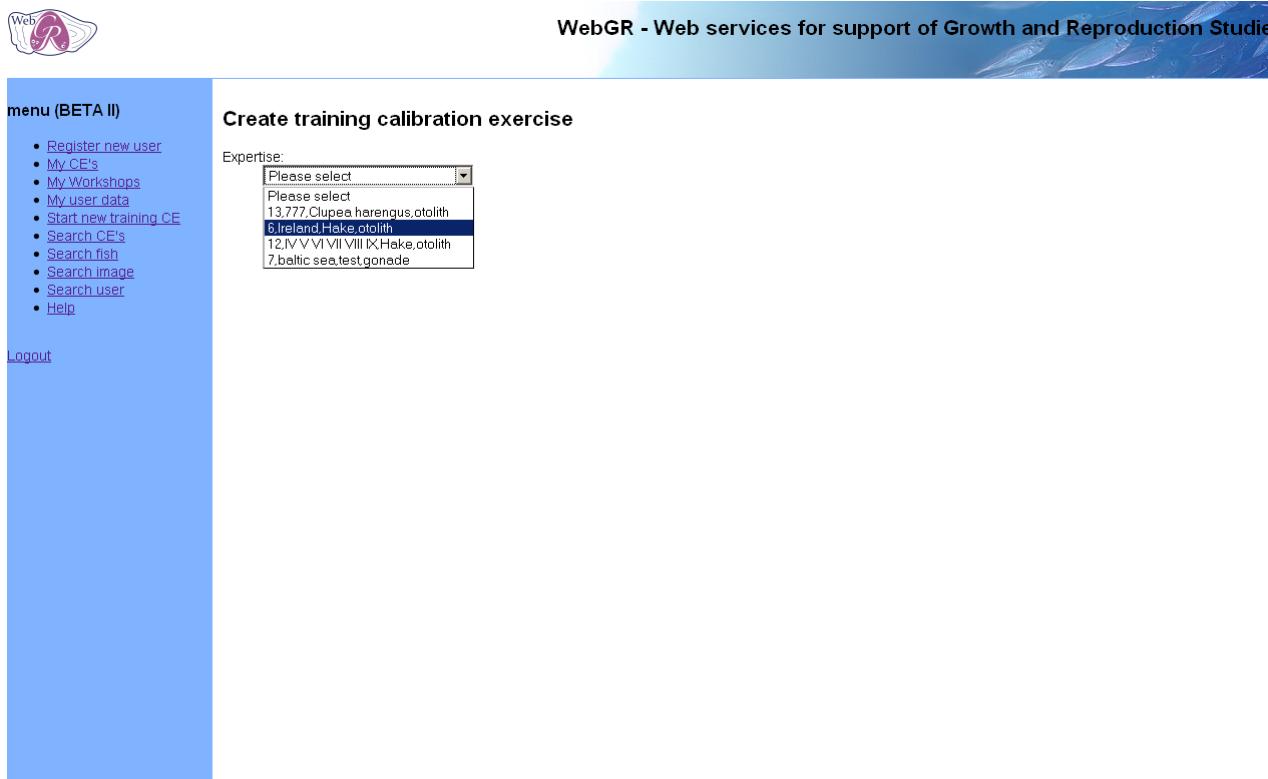


Figure 3: Select training calibration exercise

You get a list of image-sets grouped by protocol, where you can create training calibration exercises. Choose one training calibration exercise (see Figure 4).

Note: If there are no references for a expertise, then a training calibration exercise is not available per definition.

WebGR - Web services for support of Gro**Create training calibration exercise** **List of imagesets grouped by key table**

Key table name	No. of images	workshop references	WebGR references	Actions
Beta 1 KeyTable	21	2	0	Create training calibration exercise
Hake ageing key	5	1	1	Create training calibration exercise

Figure 4: List of image-sets grouped by key table

4.2 Make an annotation

Now you can start the exercise inside the annotation interface (see Figure 5).

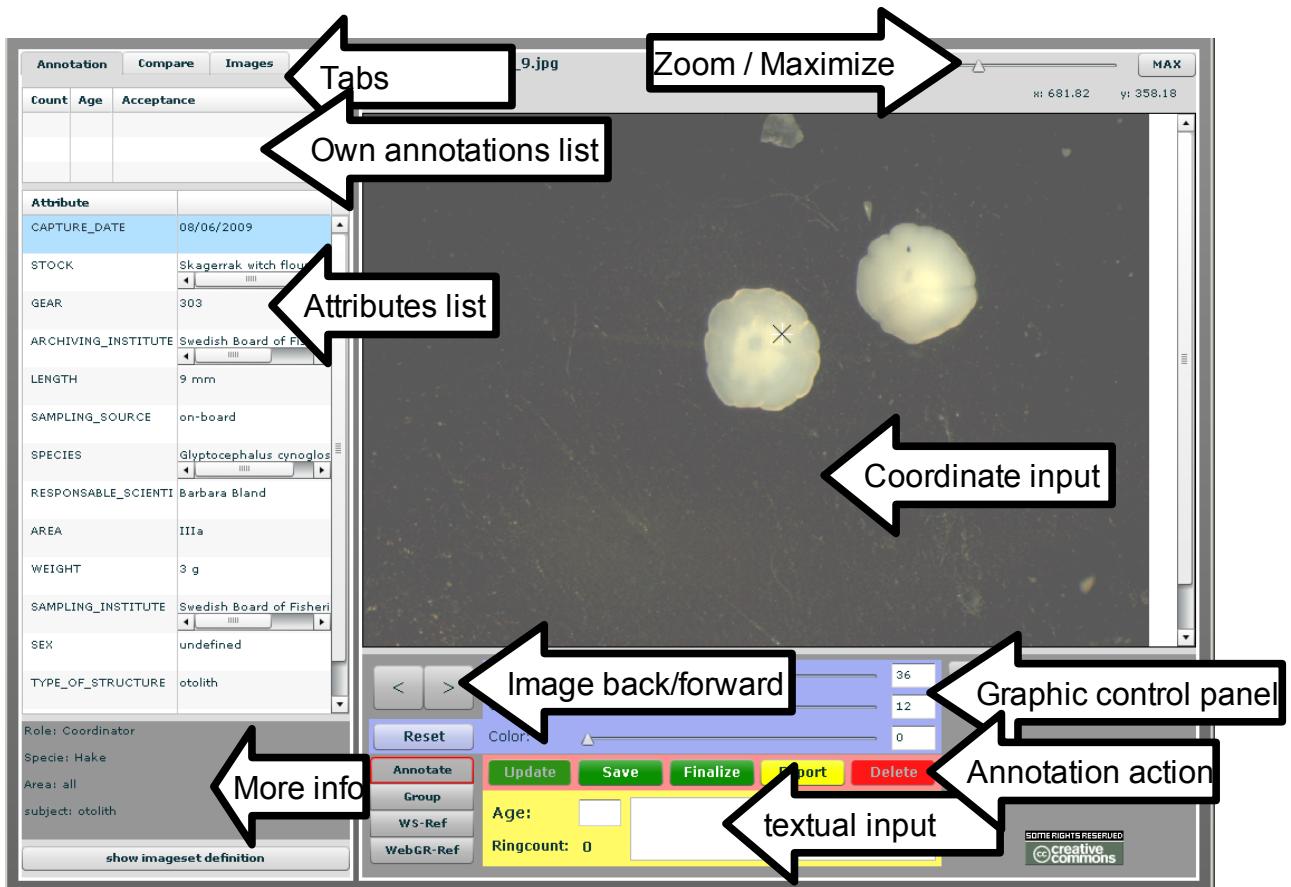


Figure 5: The annotation interface with explanations

You start your annotations with choosing “annotation” and just clicking on the image. You will see a red cross. (see Figure 6). The number of dots you make is counted (see Figure 5, textual input).

WebGR users manual v1.0a

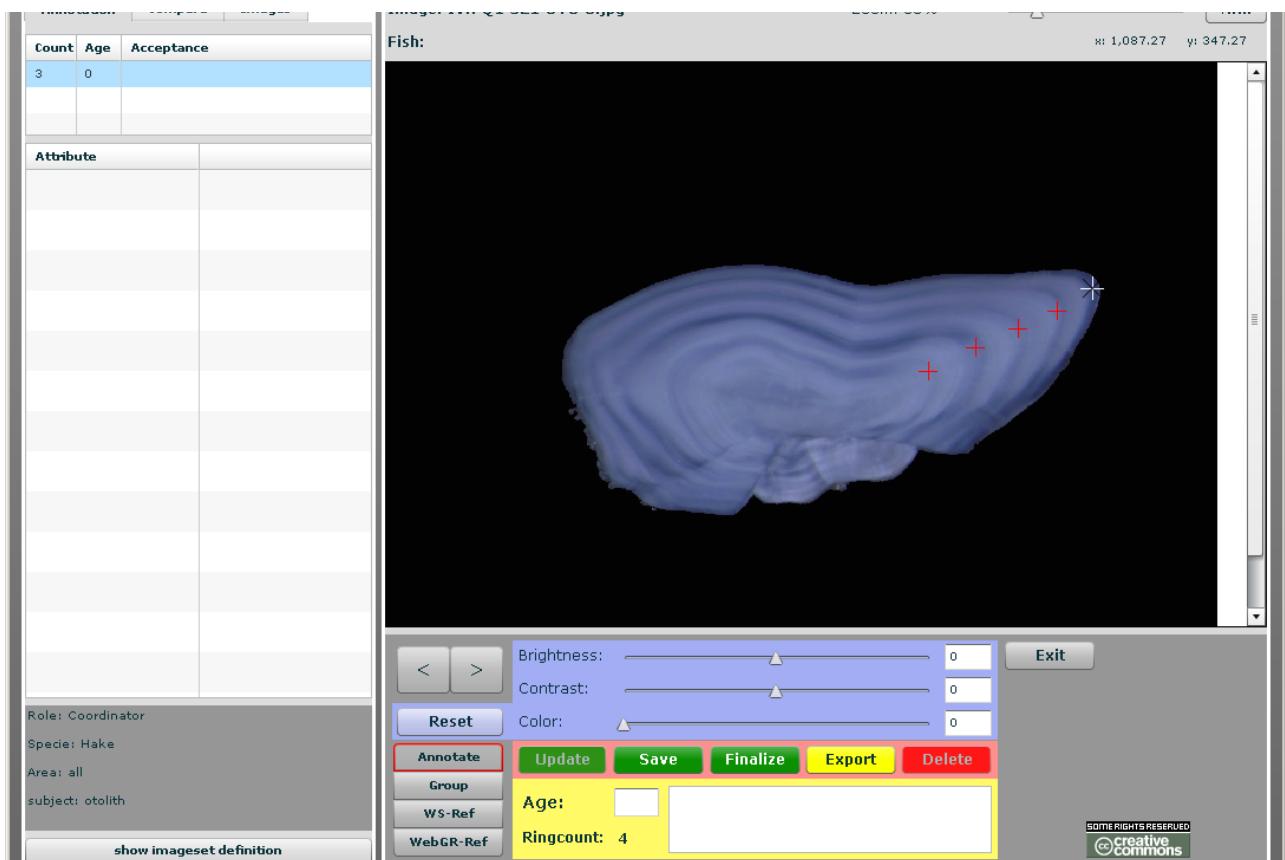


Figure 6: Make an annotation

You can change brightness, contrast and color to see more details (see Figure 7).



Figure 7: Changing brightness, contrast and color

Type in the age and comments (see Figure 8).

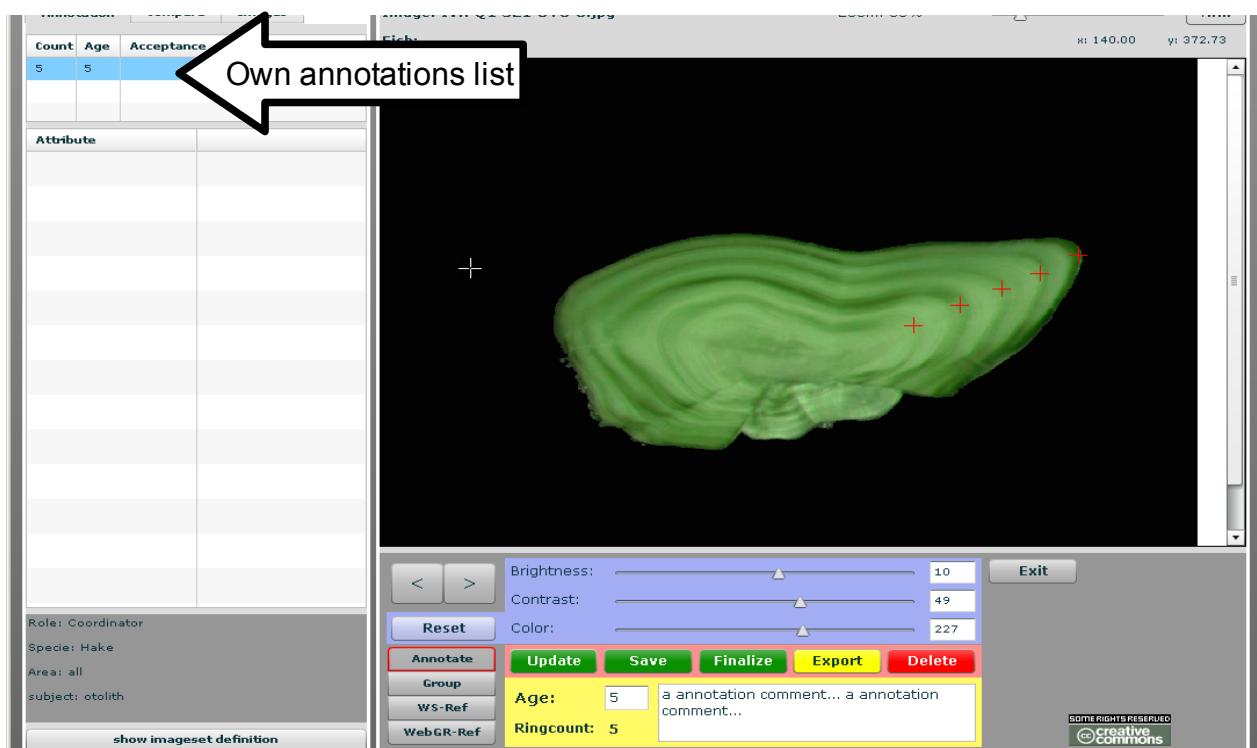


Figure 8: Saved annotation

Click “Save” and you can see your first annotation in the list. With clicking on the annotation you can reload it in your workspace (see Figure 8).

You can edit the dots (add crosses or remove them by scrolling over the crosses and clicking). After this you only have to click the “Update”-button to update the annotation.

If you don't want to edit the old annotation just click “Save” and a new one will be created.

- Save creates a new annotation.
- Update overwrites your own current annotation.

All this functions are available in the standard calibration exercises, too.

4.3 Compare and copy other readers annotations

First click your annotation which you want to compare.

To compare select the tab “Compare” (see Figure 9).

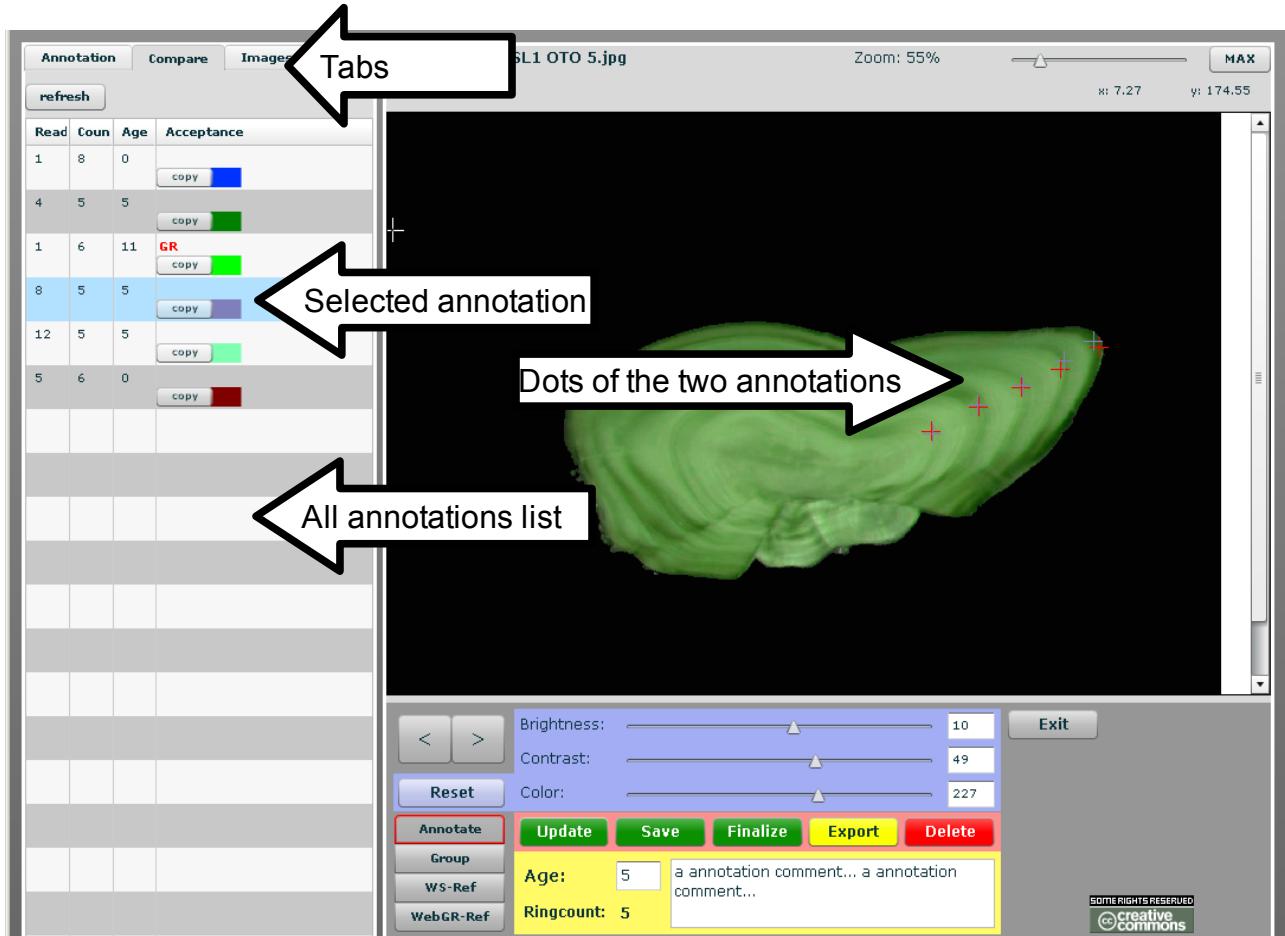


Figure 9: Compare annotations

Click another annotation. You can control-click to select several annotations.

If you want to modify your own or another public annotation from the “all annotations” list click the “copy”-button in this row. All settings are loaded now. Modify the annotation and click “Save” to create a new annotation. Go back to tab “Annotation” to see that you have a new annotation.

All this functions are available in the standard calibration exercises, too.

Note: If you want to discuss or compare with other users you must join a group (more about this at chapter “User”).

4.4 Leave the training

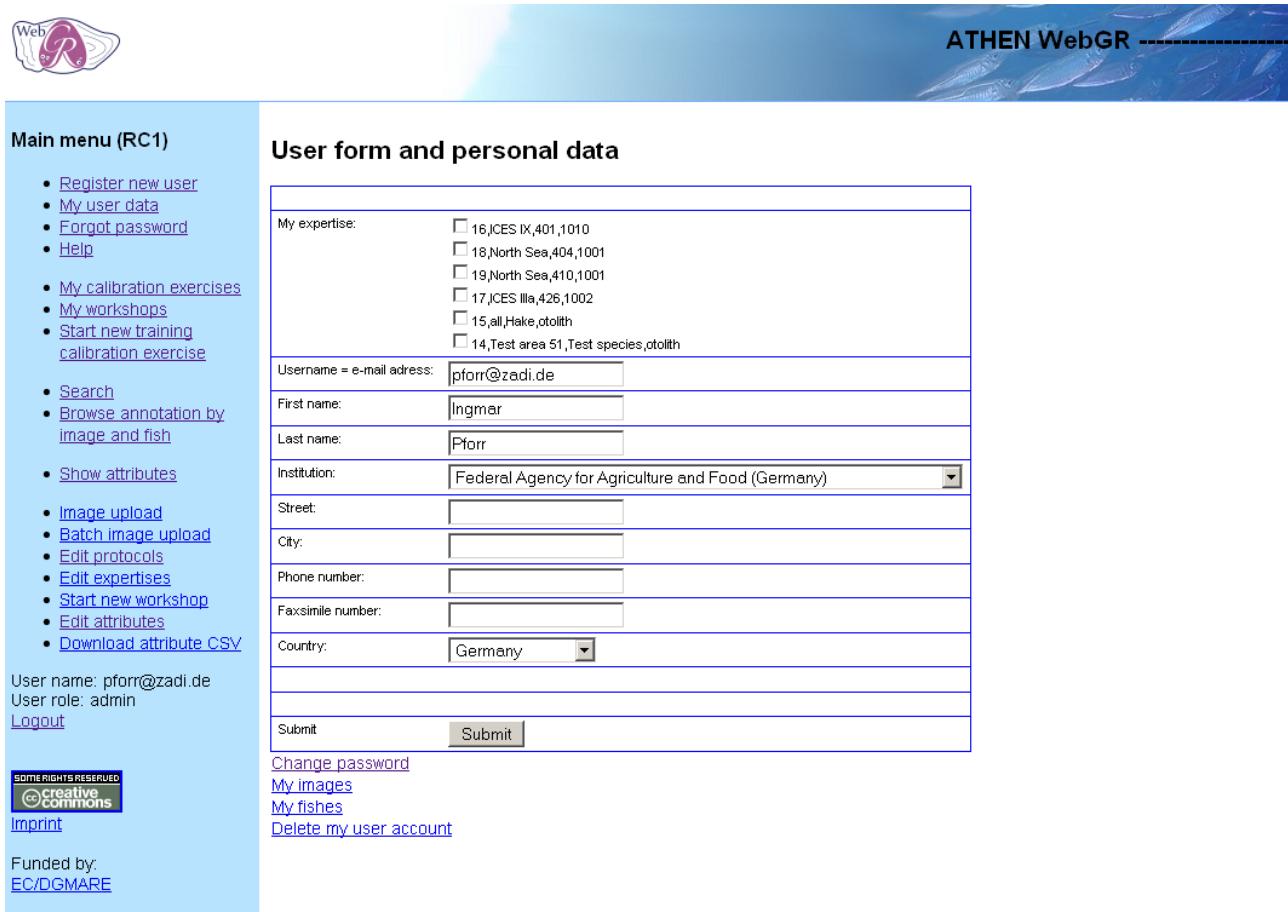
Click „Exit“.

If you leave the training your exercises will be saved and you can start it the next time by clicking on “my calibration exercises”. This list contains all your exercises. All your data and Workshops are available at the start screen, too (see Figure 10).

4.5 My user data

You can check your personal expertises here. Click the expertises and then click „Submit“.

The data manager or administrator can add expertises at any time and will do so in order to create new calibration exercises for new expertises. Please return to here to update your knowledge skills.



The screenshot shows the ATHEN WebGR user interface. At the top left is the logo 'WebGR'. At the top right is the text 'ATHEN WebGR' with a decorative background of fish silhouettes. The main content area has a light blue header 'User form and personal data'. Below it is a form with various input fields and checkboxes. On the left sidebar, there is a 'Main menu (RC1)' with a list of links, and some user information like 'User name: pforr@zadi.de' and 'User role: admin'. At the bottom of the sidebar are links for 'Change password', 'My images', 'My fishes', and 'Delete my user account'.

My expertise:	<input type="checkbox"/> 16,ICES IX,401,1010 <input type="checkbox"/> 18,North Sea,404,1001 <input type="checkbox"/> 19,North Sea,410,1001 <input type="checkbox"/> 17,ICES IIIa,426,1002 <input type="checkbox"/> 15,all,Hake,otolith <input type="checkbox"/> 14,Test area 51,Test species,otolith
Username = e-mail address:	pforr@zadi.de
First name:	Ingmar
Last name:	Pforr
Institution:	Federal Agency for Agriculture and Food (Germany) <input type="button" value="▼"/>
Street:	<input type="text"/>
City:	<input type="text"/>
Phone number:	<input type="text"/>
Faxsimile number:	<input type="text"/>
Country:	Germany <input type="button" value="▼"/>
Submit	<input type="button" value="Submit"/>

Change password
[My images](#)
[My fishes](#)
[Delete my user account](#)

Figure 10: User data functions

From here you can search the images that only you uploaded and the fish data sets that only you created.

You can change your password.

You can delete your user account. The data that you provided will be stored anonymously.

4.6 Search function

Additionaly a search function is applied for you. Here you can search for calibration exercises, fishes, images or users.

Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)
- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)
- [Search](#)
- [Browse annotation by image and fish](#)
- [Show attributes](#)
- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Start new workshop](#)
- [Edit attributes](#)
- [Download attribute CSV](#)

User name: pfurr@zadi.de
User role: admin
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Figure 11: search functions

In detail you have the possibility to contain your search with appointing the search attributes.

The attributes you can choose are different for the diverse searches. You can choose between a search for “and” and “or”. You can also contain your search by enter limitate subjects or select the Institutes you want to search in.

In the other searches are also functions to specialize your search application (see Figure 15, Figure 16 and Figure 17).

4.6.1 General usage of search forms

4.6.1.1 Text fields

Placeholders and wildcards are not supported. MySQL's LIKE is used with wildcards before it and behind it.

Fisherman:	<input type="text"/>
------------	----------------------

Figure 12: Simple text search field

Example: The expression „part“ finds „appartment“.

4.6.1.2 Ranges

Type in a FROM and a TO value. This is defined with **greater than or equal** and **less than or equal to**.

To get just one value type in the same FROM and TO value.

Note: To function properly, the entries in the database and in the search fields must have the same format.

Fish date of capture: FROM	<input type="text"/>
Fish date of capture: TO	<input type="text"/>

Figure 13: FROM and TO text search fields

4.6.1.3 Multiple search selects

Checkboxes and multi select boxes offer the ability to search for objects with attributes with value lists. For usability reasons only checkboxes (see Figure 14) are used.

Inside of an attribute there is always an OR-combination used, that means, only one of the checked value list entries has to be found.

Fish scient name:	<input type="checkbox"/> Clupea harengus <input type="checkbox"/> Engraulis encrasicolus <input type="checkbox"/> Gadus morhua <input type="checkbox"/> Limanda limanda <input type="checkbox"/> Melanogrammus aeglefinus <input type="checkbox"/> Merlangius merlangus <input type="checkbox"/> Merluccius merluccius <input type="checkbox"/> Micromesistius poutassou <input type="checkbox"/> Platichthys flesus <input type="checkbox"/> Pleuronectes platessa <input type="checkbox"/> Psetta maxima <input type="checkbox"/> Sardina pilchardus <input type="checkbox"/> Scomber scombrus <input type="checkbox"/> Scophthalmus rhombus <input type="checkbox"/> Solea solea <input type="checkbox"/> Sprattus sprattus <input type="checkbox"/> Trachurus trachurus
-------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Figure 14: Multicheckbox search field

In the example fishes are found either of species „Clupea harengus“, „Engraulis encrasicolus“ or „Gadus morhua“. This is also the case for multi value attributes.

Note: In some search results you will find one and the same object multiple times. This

results from multiselected or multichecked attributes, e.g. a fish sample could have many examining institutes, which the sample has passed in an otolith exchange.

4.6.2 Search fish

Here you can search a certain fish or a group of fishes by one ore more attributes. E.g. physical attributes like length and weight can be used here.

The screenshot shows a search form titled "Search fish". It includes fields for searching by length (from/to), weight (from/to), research institutions (AZTI, IEO, IFREMER, IPIMAR, vTI), gender (dropdown menu), simple text, H Stock, and H Sample year (from/to). The "Search field combination" section has radio buttons for "and" and "or".

Search field combination:
 and
 or

Fish length[cm]: FROM
[]

Fish length[cm]: TO
[]

Fish weight[kg]: FROM
[]

Fish weight[kg]: TO
[]

Researching institutes:
 AZTI
 IEO
 IFREMER
 IPIMAR
 vTI

gender:
[Please select ▾]

simple Text:
[]

H Stock:
[]

H Sample year: FROM
[]

H Sample year: TO
[]

Figure 15: Search for fish

4.6.3 Search image

In an image search the search filter contains fish and image attributes, so there are more possibilities to specify your search. In addition to a fish search you can filter attributes like resolution, black/white or color images and so on.

WebGR - Web services for support

Search image

Search field combination:

and
 or

Image resolution[dpi]: FROM
Image resolution[dpi]: TO

subject:

Fish length(cm): FROM
Fish length(cm): TO

Fish weight(kg): FROM
Fish weight(kg): TO

Researching institutes:

AZTI
 IEO
 IFREMER
 IPIMAR
 VTI

gender:

simple Text:

H Stock:

Figure 16: Search for image

4.6.4 Search user

It is possible to search for a special expertise here to get a list of the knowledge carriers.

WebGR - Web services

Search user

Search field combination:

and
 or

Username = e-mail address:

First name:

Last name:

Institution:

Street:

City:

Country:

Expertise:

List details

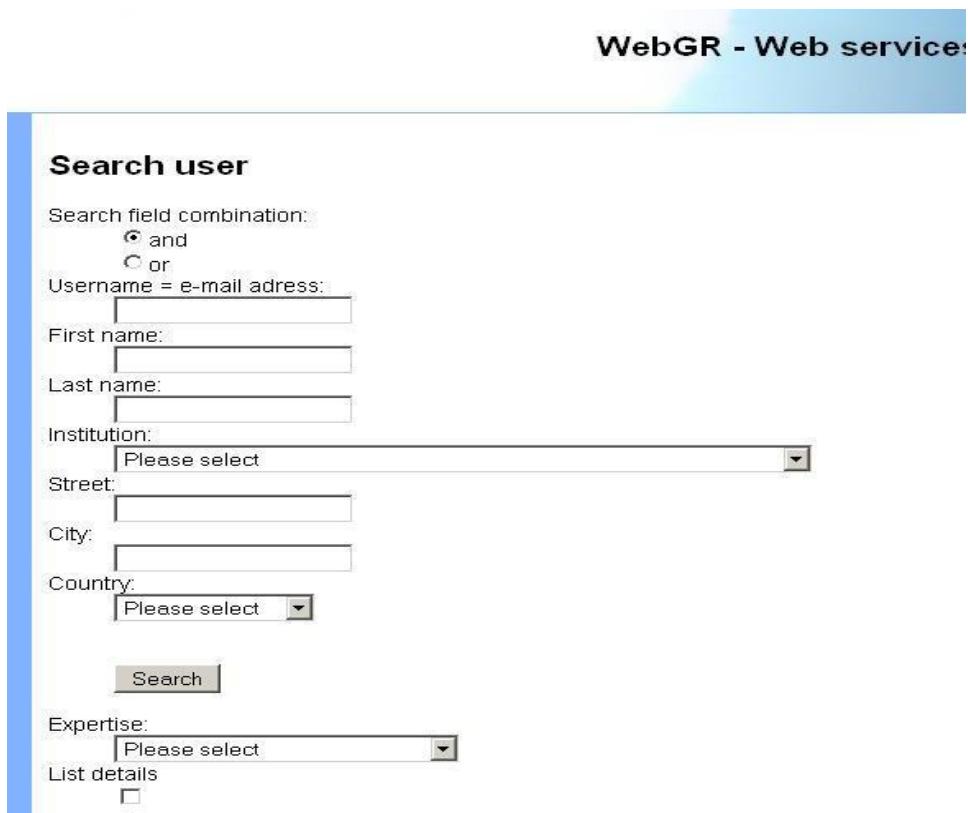


Figure 17: Search for user

Check details if you want to list the personal expertises of the users in addition.

Due to aggregation of these values ordering of this field is not possible.

4.6.5 The search result lists

In most cases result lists from successful searches can be ordered by clicking the heading of the attribute.



Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)

- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)

- [Search](#)
- [Browse annotation by image and fish](#)

- [Show attributes](#)

- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Start new workshop](#)
- [Edit attributes](#)
- [Download attribute CSV](#)

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Calibration exercise list

	<u>CE name</u>	<u>Workshop name</u>	<u>Exp area</u>	<u>Exp species</u>	<u>Exp subject</u>	<u>Protocol</u>	<u>Images</u>
browse annotations annotate statistics details edit (delete not possible) RAW DELETE	EJ01	EJ	all	Hake	otolith	protocol_na_redfish.doc	8
browse annotations (Annotation not allowed.) statistics details edit delete RAW DELETE	Plaice fecundity macroscopic	WKMSSPDF2010					0

Figure 18: Search result list for calibration exercises

In some columns of the dataset the data is clickable when presented as a link, e.g. written in blue or purple.

Before and after the result rows actions like edit or delete can be shown as clickable links.

The Figure 18 shows the result list for calibration exercises. In the first column you see the available actions that depend on the object and your authorisation in WebGR. The shown workshop name is clickable and gets you to the workshop details. The protocol is also clickable and opens the protocol file.



Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)

- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)

- [Search](#)
- [Browse annotation by image and fish](#)

- [Show attributes](#)

- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
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List of images

Thumbnail	Original file name	Fish sample code	Width	Height	LENGTH mm	SPECIES	FISH_COMMENT	GEAR
	IVA Q1 SL1 OTO 5.jpg	IVA Q1 SL1 OTO 5	1280	960				
	IVA Q1 SL1 OTO 6.jpg	IVA Q1 SL1 OTO 6	1280	960				
	IVA Q1 SL1 OTO 8.jpg	IVA Q1 SL1 OTO 8	1280	960				
	IVA Q1 SL2 OTO 6.jpg	IVA Q1 SL2 OTO 6	1280	960				
	IVA Q1 SL2 OTO 8.jpg	IVA Q1 SL2 OTO 8	1280	960				
	IVA Q1 SL3 OTO 2.jpg	IVA Q1 SL3 OTO 2	1280	960				
	IVA Q1 SL3 OTO 4.jpg	IVA Q1 SL3 OTO 4	1280	960				
	IVA Q1 SL3 OTO 5.jpg	IVA Q1 SL3 OTO 5	1280	960				
	IVA Q1 SL3 OTO 7.jpg	IVA Q1 SL3 OTO 7	1280	960				

Figure 19: Search result list for images

Figure 19 Shows the result list for images. The thumbnail is clickable, too, and opens the image in a new tab of the browser.



Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)

- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)

- [Search](#)
- [Browse annotation by image and fish](#)

- [Show attributes](#)

- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Start new workshop](#)
- [Edit attributes](#)
- [Download attribute CSV](#)

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List of users

Add to participants | Reset |

	Username	User role	First name	Last name	E-mail	Institution	Street	City
<input type="checkbox"/> edit	superuser@zadi.de	admin	Firstname	Lastname	superuser@zadi.de	Federal Agency for Agriculture and Food (Germany)	Villichgasse	Bonn
<input checked="" type="checkbox"/> edit	rauthe@zadi.de	admin	Norman	Rauthe	rauthe@zadi.de	Federal Agency for Agriculture and Food (Germany)	Villichgasse	Bonn
<input checked="" type="checkbox"/> edit	pforr@zadi.de	admin	Ingmar	Pforr	pforr@zadi.de	Federal Agency for Agriculture and Food (Germany)	neue straße	
<input checked="" type="checkbox"/> edit	moksness@imr.no	ws-manager	Erlend	Moksness	moksness@imr.no			
<input checked="" type="checkbox"/> edit	iquinoces@azti.es	admin	Iñaki	Quinoces	iquinoces@azti.es	AZTI Foundation (Spain)	Txatxarramendi Irla	Sukarriet
<input checked="" type="checkbox"/> edit	maria.hansson@fiskeriverket.se	reader	Maria	Hansson	maria.hansson@fiskeriverket.se			
<input checked="" type="checkbox"/> edit	cardador@ipimar.pt	reader	Fátima	Cardador	cardador@ipimar.pt			
<input checked="" type="checkbox"/> edit	ernesto@ipimar.pt	admin	Ernesto	Jardim	ernesto@ipimar.pt	Laboratório Nacional de Recursos Biológicos – IPIMAR (Portugal) –		
<input checked="" type="checkbox"/> edit	rajlie.sjoberg@fiskeriverket.se	ws-manager	Rajlie	Sjöberg	rajlie.sjoberg@fiskeriverket.se	Swedish Board of Fisheries		

Figure 20: Search result list for users

In case you use a search in context of an action like add participants radio buttons or check boxes are available in front of each row. With the check boxes you can select certain objects and execute an action for all selected objects like adding the users to the participants list of a calibration exercise (see Figure 20).

4.7 Workshop list

You can search for workshops with „My workshops“ and „Search“→ „List all workshops“.

To show the information about a workshop, click „info“ in the designated workshop row.



Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)

- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)

- [Search](#)
- [Browse annotation by image and fish](#)

- [Show attributes](#)

- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Start new workshop](#)
- [Edit attributes](#)
- [Download attribute CSV](#)

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workshop list

	Location	Workshopname	Start date	End Date	Manager
info edit <small>(delete not available)</small> RAW DELETE	Sukarrieta	EJ	2009-11-11	2009-11-12	ernesto@pjmar.pt
info edit <small>(delete not available)</small> RAW DELETE	Test Bonn	WKMSSPDF2010	2010-01-01	2010-01-09	ingeborg.deboois@wur.nl

[add WS](#)

Figure 21: Workshop list

4.8 My Calibration exercises

By clicking on “My calibration exercises” you see a list with all calibration exercises you are invited in or all your training exercises you started before.

Click “annotate” to start the annotation interface. See Annotations.

Click “browse annotations” to show the already available annotations. See Browse annotations.

4.9 Calibration exercise statistics

Click on statistics in the designated calibration exercise row to view the statistical tables. The statistical reports include:

- annotations
- list of the participants
- list of the images and the connected fish data
- definition of the calibration exercise

Within the statistical tables click „download as CSV-file“ to download a Comma-Separated Values-file to process with Spreadsheet software like Calc or Excel or statistical software.

The statistical table of the annotation shows all readers and images involved in the calibration exercise.



ATHEN WebGR																																																																																																																																																																																																																																																																																													
Main menu (RC1)	annotations																																																																																																																																																																																																																																																																																												
<ul style="list-style-type: none"> • Register new user • My user data • Forget password • Help • My calibration exercises • My workshops • Start new training calibration exercise • Search • Browse annotation by image and fish • Show attributes • Image upload • Batch image upload • Edit protocols • Edit expertises • Start new workshop • Edit attributes • Download attribute CSV 																																																																																																																																																																																																																																																																																													
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Figure 22: Statistics of calibration exercise annotations

Under the readers' number you see the expertise level and stock assessment.

At the end of the table you see the group value (the value all readers gave the image collaboratively)

The results at the right side show the Average percent error, the coefficient of variation and standard deviation and variance. **These values are aggregated for fishes**, so in case you look at two images from the same fish, they are the same.

The results at the bottom show the single **readers'** absolut mean of distances to the mean of the image values.

At first all annotations of the calibration exercise are shown. You are able to select only trainees, intermediates or experts or only readers values that have stock assessment.

4.10 Annotations

4.10.1 Make annotations

After creating an new annotation you are able to announce it into a group so that all other users can see and discuss it (see Figure 23). Click „Finalize“ to announce the annotation.



Figure 23: Announce the annotation

You can also copy an annotation from any other group member and work on it by clicking the “copy” button inside the „all annotations“ list. Now you can save it as your own annotation without deleting the original one.

4.10.2 Annotation levels of a calibration exercise

- The calibration exercise defines the protocol and expertise.
- If the calibration exercise is set to non-comparable, the group reference/workshop-reference/WebGR reference modes are not available and the „all annotations list“ is not shown. The calibration exercise can be changed to comparable in the meantime.
- The following table shows and explains the different annotation levels, the goal of the level and the possible kinds of annotations.

Annotation level	Goal	All annotations list		
		Kind of annotation	Explanation	Possible number of annotations

Annotation level	Goal	All annotations list		
		Final	Final annotations of this CE (all readers)	0...n
Annotate	Personal: Make final annotation for image in CE	Group	Group reference of this CE	0...1
		Workshop	WS-reference of CEs within this workshop with same key & expertise as CE	0...1
		WebGR	WebGR reference of image with same key & expertise as this CE	0...1
Group	Group: Make group reference for image in CE	Final	Final annotations of this CE	0...n
		Group	Group reference of this CE	0...1
		Workshop	WS-reference of CEs within this workshop with same key & expertise as CE	0...1
		WebGR	WebGR reference of image with same key & expertise as this CE	0...1
WS-ref.	Group: Make workshop-reference for image for this key & expertise	Group	Group references of CEs within this workshop with same key & expertise as this CE	0...n
		Workshop	WS-reference of CEs within workshop with same key & expertise as this CE	0...1
		WebGR	WebGR reference of image with same key & expertise as this CE	0...1
WebGR-ref.	Group: Make WebGR-reference for image (system-wide) for this key & expertise	Workshop	Workshop references of image with same key & expertise as thisCE	0...n
		WebGR	WebGR reference of image with same key & expertise as this CE	0...1

4.11 Browse annotations

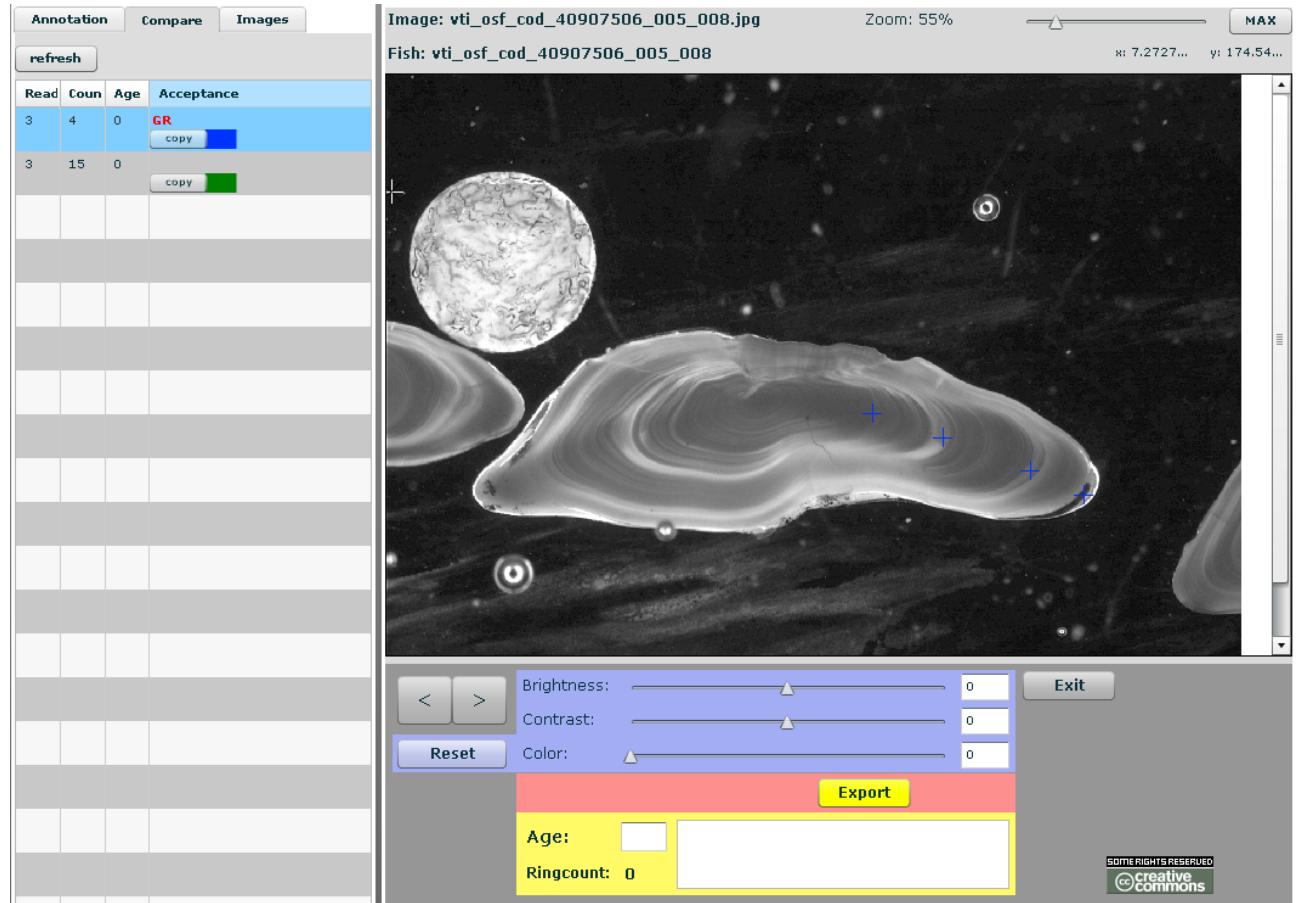


Figure 24: Browse annotations

Click „Browse annotations“ to load a set of images with annotations into the annotation interface.

You can only show images and annotations but you can not create new annotations or change existing annotations.

5 Data manager

The data manager succeeds all rights from reader. Additional functions are: upload, edit and delete own images files and fish data, edit own fish and image parameter and also administrate the expertises and protocols (see Figure 25).

Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)
- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)
- [Search](#)
- [Browse annotation by image and fish](#)
- [Show attributes](#)
- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Download attribute CSV](#)

User name: ipforr@gmx.de
User role: datamanager
[Logout](#)

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Funded by:
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Calibration exercise list

CE name	Workshop name	Exp area	Exp species	Exp subject	Protocol	Images
browse annotations annotate	Plaice fecundity macroscopic	WKMSSPDF2010	Test area 51	Test species	otolith	2
statistics details						

Additional functions

Figure 25: Additional functions for data managing

5.1 Show attributes

Click on show attributes to get a list of all attributes that are available in the system. Fish and image attributes are available in the edit forms, the search forms and the result lists, so they have a huge effect on the system.



Main menu (RC1)

- [Register new user](#)
- [My user data](#)
- [Forgot password](#)
- [Help](#)

- [My calibration exercises](#)
- [My workshops](#)
- [Start new training calibration exercise](#)

- [Search](#)
- [Browse annotation by image and fish](#)

- [Show attributes](#)

- [Image upload](#)
- [Batch image upload](#)
- [Edit protocols](#)
- [Edit expertises](#)
- [Download attribute CSV](#)

User name: ipforr@gmx.de
User role: datamanager

[Logout](#)



[Imprint](#)

Funded by:
[EC/DGMARE](#)

Attribute descriptor list

	attribute desc.	group	unit	description	value list
show detail	LENGTH	fish	mm	total length of the fish in millimeter	
show detail	WEIGHT	fish	g	weight of the fish sample in gramm	
show detail	RESOLUTION	image	dpi	Image scan/print resolution in dots per inch	
show detail	Subject	image		Subject of visual analysis (otolith, gonade etc.)	otolith, gonade
show detail	STOCK	fish		Individual information/classification about fish stock, refers to the spatial distribution of a population	
show detail	ARCHIVING_CODE	fish		Internal institute code to store the physical structure	
show detail	SEX	fish		gender/sex of fish	female, male, undefined
show detail	AREA	fish		refers to a geographic region, area code like ICES and NAFO	
show detail	CAPTURE_DATE	fish		Date of capture of fish, format YYYY-MM-DD	
show detail	GEAR	fish			
show detail	FISH_COMMENT	fish		just additional comment to this dataset	
show detail	IMAGE_COMMENT	image		just additional comment to this dataset	
show detail	MAGNIFICATION	image		Magnification of subject for image creation	
show detail	PREPARATION_METHOD	image		Preparation method of subject shown on image	

Figure 26: Attribute descriptor list

Click on „show details“ to get the details.

Attribute descriptor

Owner:	superuser@zadi.de
name:	WEIGHT
unit:	g ▾
description:	weight of the fish sample in gramm
default value:	
is required:	<input type="checkbox"/>
is standard:	<input checked="" type="checkbox"/>
active:	<input checked="" type="checkbox"/>
data type:	decimal ▾
form type:	textbox ▾
has valuelist:	<input type="checkbox"/>
sequence (last sequence fish:2 last sequence image:1):	
	• Value is required and can't be empty
is multiple:	<input type="checkbox"/>
show in list:	<input checked="" type="checkbox"/>
attribute group:	fish ▾

Figure 27: Details of attribute

Note: If the value that you want to import for a specific attribute is not listed here, the import for this datarows is not possible.

It's possible to edit the details and edit and add entries to the value list, if you have sufficient rights. See edit attributes.

5.2 Download attribute CSV file

It's possible to download a blank CSV file with only the available attributes as headings. Click „Download attribute CSV file“.

The screenshot shows the main menu of the WebGR application on the left and a list of calibration exercises on the right. A file dialog box titled "Öffnen von import.csv" is overlaid on the interface.

Main menu (RC1)

- Register new user
- My user data
- Forgot password
- Help
- My calibration exercises
- My workshops
- Start new training calibration exercise
- Search
- Browse annotation by image and fish
- Show attributes
- Image upload
- Batch image upload
- Edit protocols
- Edit expertises
- Download attribute CSV

Calibration exercise list

CE name	Workshop name	Exp area	Exp species	Exp subject	Pro
browse annotations annotate	Plaice fecundity macroscopic	WKMSSPDF2010	Test area 51	Test species	otolith
statistics details					

Öffnen von import.csv

Sie möchten folgende Datei herunterladen:

import.csv
Vom Typ: Microsoft C
Von: http://athen.webgr.zadi.de

Wie soll Firefox mit dieser Datei verfahren?

Öffnen mit Mozilla Firefox
 Datei speichern Microsoft Office Excel (Stand...)
 Für Dateien dieses Mozilla Firefox
 Andere...

OK Abbrechen

Figure 28: Operating system dialog "Open file"

A dialog box opens. Select „other...“ in open with selectbox.

The screenshot shows two overlapping dialog boxes. The top dialog is "Öffnen von import.csv" and the bottom dialog is "Hilfsanwendung wählen".

Öffnen von import.csv

Sie möchten folgende Datei herunterladen:

import.csv
Vom Typ: Microsoft C
Von: http://athen.we

Wie soll Firefox mit dieser Datei verfahren?

Öffnen mit And...
 Datei speichern
 Für Dateien dieses Mozilla Firefox

Hilfsanwendung wählen

Microsoft Office Excel ... Separated Values File

Diesen Eintrag senden an:

scalc.exe

Durchsuchen... OK Abbrechen

Figure 29: Operating system dialog: "Select help application"

To open the file with OpenOffice Calc select „scalc.exe“ and click „OK“. Click „OK“.

OpenOffice starts. Choose characterset „Unicode (UTF-8)“, leave everything else and click „OK“.

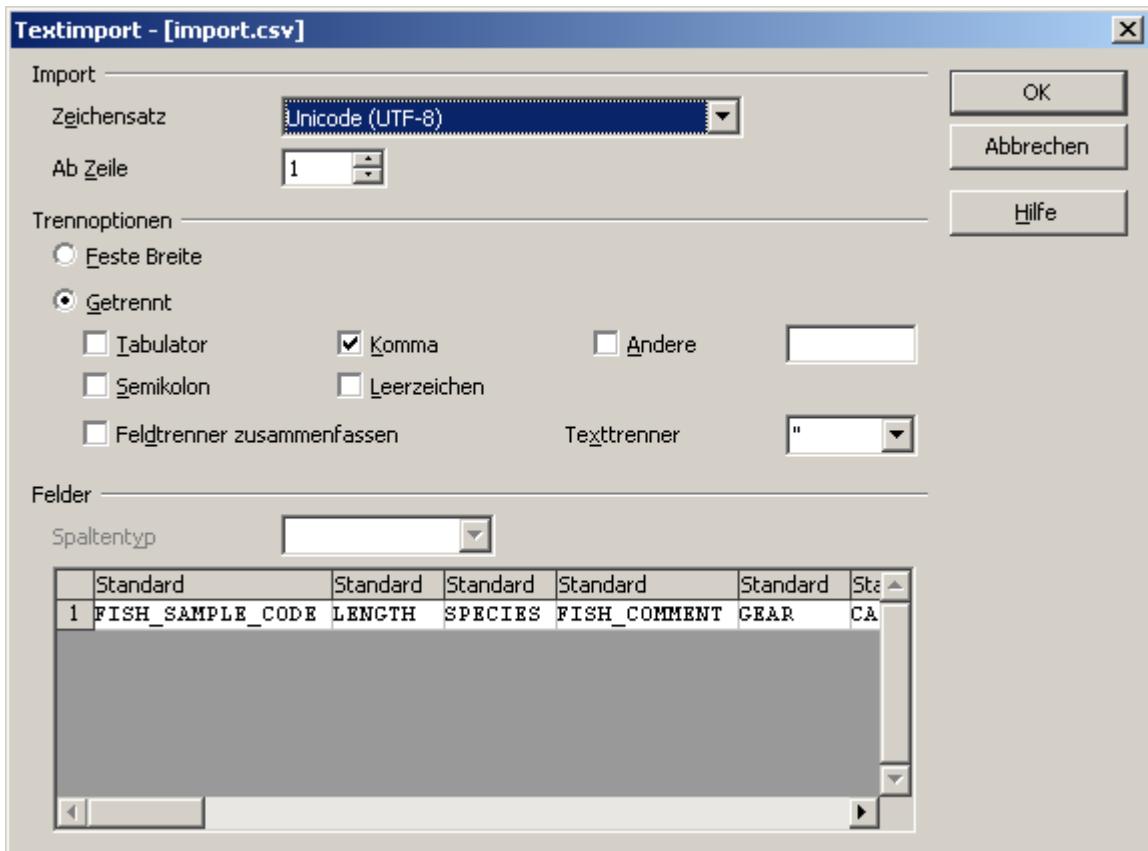


Figure 30: OpenOffice text import

The file opens.

The screenshot shows a spreadsheet application window titled "import.csv (schreibgeschützt) - OpenOffice.org Calc". The menu bar includes "Datei", "Bearbeiten", "Ansicht", "Einfügen", "Format", "Extras", "Daten", "Fenster", and "Hilfe". The toolbar contains various icons for file operations like opening, saving, and printing. The spreadsheet has a header row with the formula "FISH_SAMPLE_CODE" in cell A1. The columns are labeled A through H, and the rows are numbered 1 through 23. Row 1 contains the header: "FISH SAMPLE CODE", "LENGTH", "SPECIES", "FISH_COMMENT", "GEAR", "CAPTURE_DATE", "AREA", and "ARCHIVING". Rows 2 through 23 are empty.

FISH_SAMPLE_CODE								
A	B	C	D	E	F	G	H	
1	FISH SAMPLE CODE	LENGTH	SPECIES	FISH_COMMENT	GEAR	CAPTURE_DATE	AREA	ARCHIVING
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Figure 31: OpenOffice CSV file

Save the file under another name to edit it.

5.3 Image upload

Currently graphic formats GIF, JPG, PNG are supported. In every case the original uploaded file will be stored on the file system of the server.

Select an image on your drive with „Search...“-button. The file open dialog starts and you can select one file and go back to the form. You can upload up to 4 images at once with this buttons. All images will be assigned to the same fish, that you specify over the fish sample code.

Upload images

Upload image(s):	<input type="text" value="C:\Dokumente und Einst"/> <input type="button" value="Durchsuchen..."/>	<input type="text"/> <input type="button" value="Durchsuchen..."/>	<input type="text"/> <input type="button" value="Durchsuchen..."/>
Fish Sample Code:	<input type="text" value="test471111"/>		
RESOLUTION[dpi]:	<input type="text" value="90"/>		
Subject:	<input type="text" value="otolith"/> <input type="button" value="▼"/>		
IMAGE_COMMENT:	<input type="text" value="just comment"/>		
MAGNIFICATION:	<input type="text" value="30"/>		
PREPARATION_METHOD:	<input type="text" value="method"/>		
TYPE_OF_STRUCTURE:	<input type="text" value="otolith"/> <input type="button" value="▼"/>		
Save	<input type="button" value="Save"/>		

Figure 32: Upload images

In the form all (active) image attributes are available to fill out.

Type in the existing **fish sample code** exactly as you used it before. Or type in a new fish sample code. Select the image files you want to upload. You can add several files at once.

Select the **subject** and **type of structure** of the image. If you need more subjects, subjects can be added over the attribute descriptor.

Fill out the other image attributes. If you need more attributes, they can be added over the attribute descriptor.

Please give as much information as you and others would need for searching and finding the image later.

Click the „Save“ button. If the fish sample code is not in the database, you will be prompted to add a new fish (see Figure 33).

LENGTH[mm]:

WEIGHT[g]:

STOCK:

ARCHIVING_CODE:

AREA:

CAPTURE_DATE:

GEAR:

FISH_COMMENT:

SPECIES: Please select ▾

SAMPLING_DATE:

OBSERVED_MATURITY_STAGE:

SAMPLING_INSTITUTE:

ARCHIVING_INSTITUTE:

RESPONSABLE_SCIENTIST:

SAMPLING_SOURCE: Please select ▾

LONGITUDE[G geo signed]:

LATITUDE[G geo signed]:

SEX:

female

male

undefined

Fish Sample Code: test471111

Figure 33: Add/edit fish form

Please give as much information as you and others would need for searching and finding the fish later.

5.4 Batch image upload (import)

With the import functionality you can import fish data, image data and image files at once.

You can create data in the system without using the forms. This batch import could need preparation of your existing data. This basically means reformatting the data in a spread sheet, e.g.

- renaming of headers to match the system
- deleting of unit or percent signs in the value cells
- adding required columns and data.

The import procedure contains:

- creation of CSV file
- upload of CSV file and images
- before import check
- import of data and image files
- after import check

5.4.1 Upload

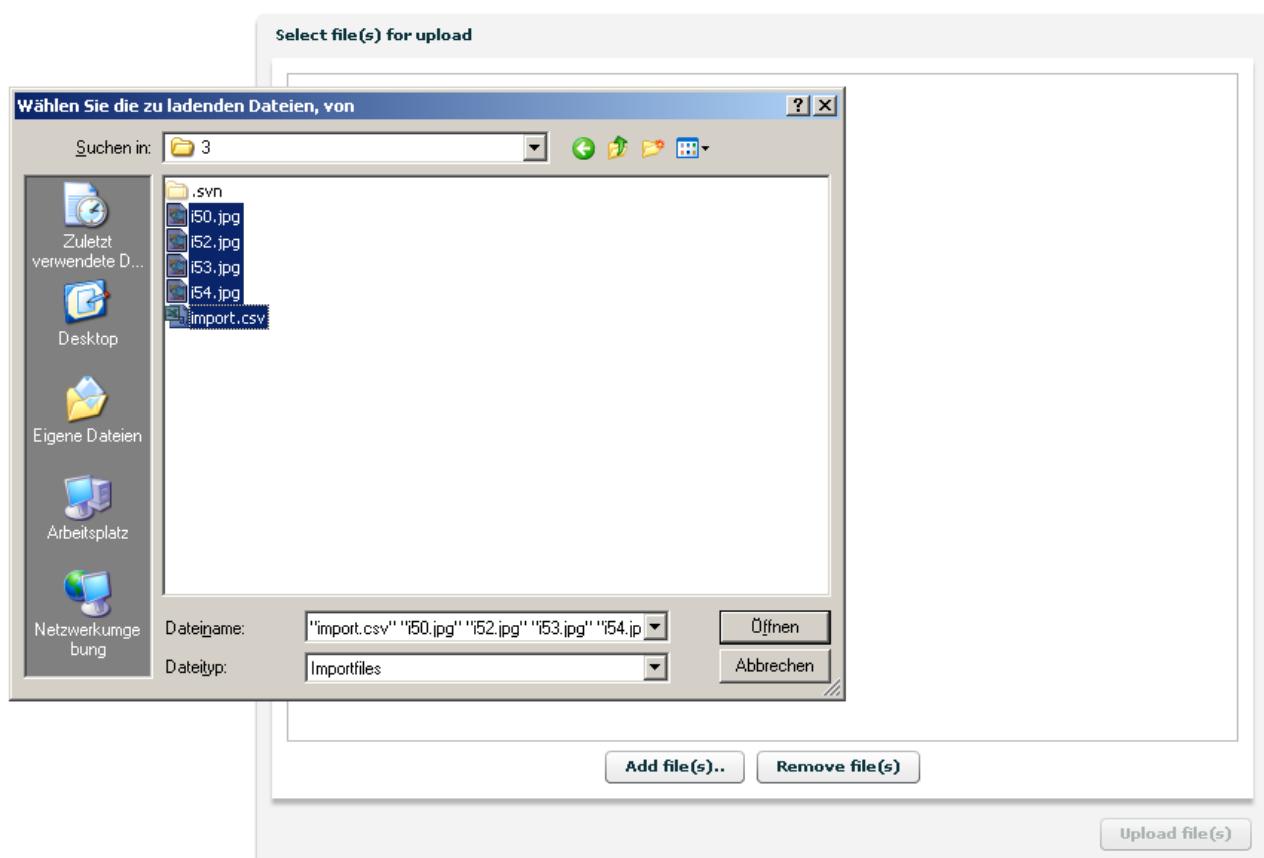


Figure 34: Select files screen from operating system (here Windows)

1. Generate the files (see below)

2. click „batch import“ to start the procedure
3. Click „Add file(s)...“
4. Operating system screen: Navigate to your source directory and choose your files to upload (import.csv and image files).
Note: You can select multiple files with control-click (= select single element) and shift-click (= select all elements until...).
5. Click „Open“.
6. The files are in the list now; select and click „Remove file(s)“ if you selected too much files.
7. Click „Upload file(s)“ to upload the listed files.

5.4.2 Manual association of CSV file columns to system attributes

For the manual association of CSV file columns to system attributes you can choose the destination field in a table.

For supporting the association the select boxes are preset where there are equal column names provided in the CSV file.

Select the destination attribute (system) for each of the source attribute (file).

Note: For more information about the attributes click „show attributes“ before your import. If you need more destination attributes, the Admin can add new ones to the system.

If you want to ignore the column (e.g. a temporary column for calculations or a value not needed in the system) leave the select box on „--ignore--“.

A association setting is not storable.

Select file(s) for upload

allocating attributes
import.csv

csv-file attributes	system attributes
Fish length	Fish length (fish)
subject	Subject (image)
FISH_SAMPLE_CODE	FISH_SAMPLE_CODE (undefined)
H Landing month	Landing month (fish)
H DEPRECATED Fish code	--ignore-- (undefined)
gender	Fish sex (fish)
Fish weight	Fish weight (fish)
H Fish sex	--ignore-- (undefined)
Researching institutes	Fish researching institute (fish)
H Stock	Stock (fish)
IMAGE_ORIGINAL_FILENAME	IMAGE_ORIGINAL_FILENAME (undefined)
H Sample year	Sample year (fish)

Go on with the import by checking the data ?

Upload file(s)

Figure 35: associate CSV file columns to system attributes manually

5.4.3 System checks before import

The several checks with the CSV file and the image files will be reported to the user. There are different boxes for different fields.

If an **initial error** occurs (invalid CSV file) there will be a message.

If an **error** occurs you will see which check has this erroneous data in the result code. Erroneous data columns and rows will not be imported.

If an **warning** occurs the data will be processed but perhaps the user expected something different.

If the results code states **success**, the specific check was all successful.

5.4.4 Import

If the test results showed no error, you are able to click „Import“.

Only valid datasets will be imported.

Click „Exit“

Important: Once imported fishes/images will not be extended. That means if you upload datasets again, e.g. with more columns or information provided, the data of existing datasets is neither overwritten nor extended. Unintentionally imported fishes and images must be deleted before importing again.

In case of image data and image files you will get a warning, if images for the specific fish (identified over FISH SAMPLE CODE)

- are already existing
- are existing with the filename provided.

For the start you can

- generate a blank spread sheet with the current attributes (all required and optional fish and image attributes)
 - use „Download attribute CSV“
- look up the available attributes and value lists in the system.

5.4.5 Conditions for an import

An import set consists in a CSV (character separated values) file and corresponding image files.

5.4.5.1 CSV file

For detailed information about the CSV file look at 5.4.7 Creation of a character separated value file (CSV) suitable for WebGR.

5.4.5.2 Image files

Supported image formats:

- JPEG
- GIF
- PNG

Currently TIFF is NOT supported. Either NOT supported is Photoshop or other graphic utility program files.

Image size: Images can be very big (several megabyte and megapixel), the images will be shrunked.

Image file names: Theoretically image names can be repeated in another import, but this is not recommended for identifying and export reasons.

5.4.6 Converting other image formats with IrfanView

We suggest, you use IrfanView (we use version 3.98 here) on Windows to convert the images to copies in JPG-format, all at once automatically. The original files, e.g. TIFF-files, will not be overwritten.

(IrfanView is able to rotate single images and read much other image file formats, too.)

It's freeware for non-commercial use, please download under: <http://www.irfanview.net/>

IrfanView is running under Linux, too, with Wine.

1. Start IrfanView.
2. Click "File"->"Batch Conversion".
3. Navigate into image directory; you should see all the image files in the list container.
4. Click "Use this directory as output" to store the jpg-images in the same directory, so you won't have to create another one.
5. Choose Output format: "JPG - JPEG Format".
6. For highest quality click "Options".
7. Click the slider setting "Save quality" to outer right to 100, leave all other settings.
8. Click "OK".
9. Finally click "Start" and the images will be converted.
10. After the conversion is finished, close IrfanView.

5.4.7 Creation of a character separated value file (CSV) suitable for WebGR

5.4.7.1 Software and CSV file specifications

- Use spreadsheet software or editor of choice; it must be able to export UTF-8 (e.g. OpenOffice Calc, Notepad2).
- First row must contain headers.
- Further rows must contain the data.
- Save under specific file name (not test1.csv)

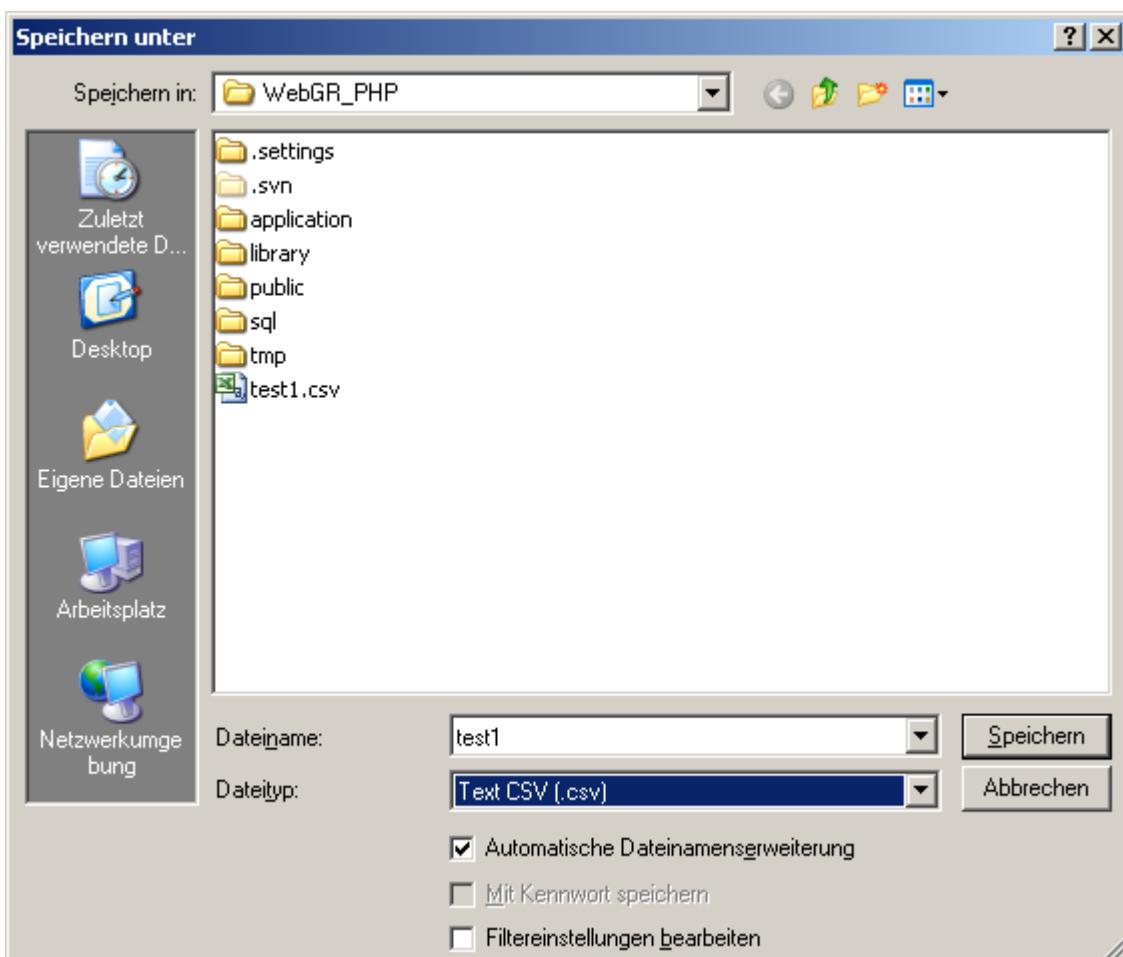


Figure 36: Operating system: Save as...

- choose CSV.

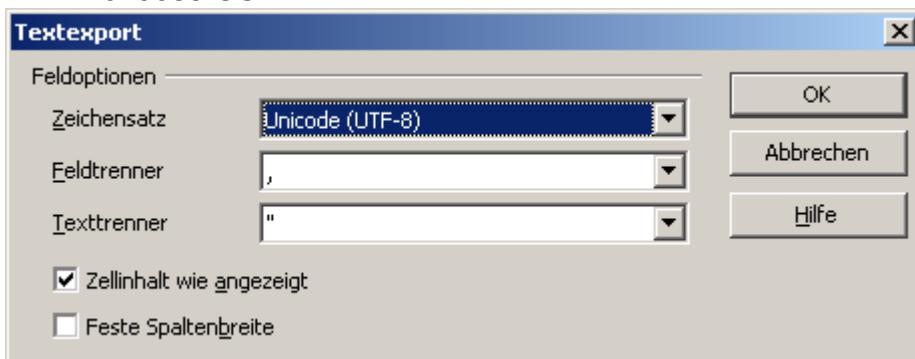


Figure 37: OpenOffice CSV save settings

- File name must be import.csv
- CSV file (character set) must be UTF-8 coded (as is the application scripts/database).
- Field separator must be comma (,).
- Text delimiter (enclosures) must be double quotation marks (").
- Check „cell content as presented“.
- Click OK

5.4.7.2 Further CSV file specifications

Note: If you use OpenOffice Calc, you don't need to know this, because this is handled in the spreadsheet software.

After one dataset line break is used.

Line break within a cell content is only possible, when the cell content is enclosed within text delimiters.

For line break allowed control characters are LF (Unix systems etc.) or CR LF (Microsoft Windows systems etc.).

For NULL no character is written. Example: 4711,, means „4711“, NULL, NULL.

5.4.7.3 Data headings

For the possible headings click „Show attributes“ in WebGR.

1. The image file names must match the entries in column IMAGE_ORIGINAL_FILENAME.
2. The fish sample code must be in the column FISH_SAMPLE_CODE.
3. The CSV headers must match data columns in the system for fishes and images in the system.
4. The CSV headers must be unique

It's possible to have completely other headings in the CSV file (straight export from other system). Either you rename them to match the WebGR schema or you associate them manually inside the import.

5.4.7.4 Datasets

For the attribute details on click „Show attributes“->“show detail“ in WebGR.

- Date format: YYYY-MM-DD (a MySQL standard)
- Date time format: YY-MM-DD HH:MM:SS (a MySQL standard)
- Time format: HH:MM:SS (a MySQL standard)
- Latitude/Longitude format: G (decimal)
 - right: -10.0987
 - wrong: -10 5.922
 - wrong: -10 5 55.3
 - wrong: S 10 1.016 W 10 5.922

- Decimal separator sign : . (point, like 9876.54) (a MySQL standard)
- Thousands separator sign: NOT USED
 - right: 1000000
 - wrong: 1 000 000
 - wrong: 1,000,000

1. The data fields (cells) for select fields (e.g. subject) or multiple select fields must match existing value lists for the given attribute. This can require to transform coded data from source coding to destination coding. If the value is not required it can be left empty.

Examples:

1. „1“ = female or „f“ = female ==> „female“
2. „GR“ or „Griechenland“ ==> „Greece“
2. The cells for numbers must only contain a number, no unit, percent signs, degree signs, quotation or double quotations signs, monetary signs or other additional information.
 - right: -19.9
 - right: 19.90
 - wrong: -19.9°
 - wrong: EUR 19.90
3. The cells for numbers must be in the right destination unit, e.g. gallon, hektoliter must be transformed to liter, miles to kilometer, cm to mm.
4. The cells must be in the right coding standard, if there is a coding standard assigned with the attribute, e.g. Area could have coding standard from ICES/NAFO.
5. The datasets have to be valid against the image and fish attributes (like in the context of a form). E.g. a required value can not be empty.

Example:

1.a) data in spread sheet presentation (extract):

H Sample year	H Fish length	FISH_SAMPLE_CODE	Fish length	simple Text	IMAGE_ORIGINAL_FILENAME	subject
2000	19	50	19	test beta3 1	i50.jpg	otolith
2000	17	52	17	test beta3 2	i52.jpg	otolith
2000	15	53	15	test beta3 3	i53.jpg	otolith
2000	14	54	14	test beta3 4	i54.jpg	otolith

Table 1: import data in spread sheet presentation (extract)

1. b) same data in CSV representation:

```
"H Sample year","H Fish length","FISH_SAMPLE_CODE","Fish length","simple Text","IMAGE_ORIGINAL_FILENAME","Image resolution","subject"
2000,19,50,19,"test beta3 1","i50.jpg","otolith"
```

2000,17,52,17,"test beta3 2","i52.jpg","otolith"
2000,15,53,15,"test beta3 3","i53.jpg","otolith"
2000,14,54,14,"test beta3 4","i54.jpg","otolith"

2. corresponding uploaded files:

import.csv

i50.jpg

i52.jpg

i53.jpg

i54.jpg

All the conditions will be tested before any data is imported to the system. The results are reported to the user.

If a dataset with a new image and an existing fish – checked with fish sample code – is read, the fish data is ignored, only the image data will be imported for this row. It's not allowed to overwrite existing fish datasets within an import.

An detailed import closing report will be available.

5.4.8 Technical details of import

First conditions are tested.

checks the CSV and prepares the datasets for import, and gives detailed arrays back for single steps for further processing and report

1. checks the CSV file column against uploaded files
2. checks the header
3. checks the columns with value list entries and changes from strings to IDs
4. splits and checks the datasets against given fish and image format
5. checks the fish and image datasets against datasets already in the database

Second files are read and imported.

5.5 Edit protocols

Note: In earlier versions „protocols“ where named „key“ or „key table“.

With this feature you can upload protocol files (e.g. PDF). You can select one protocol file in a calibration exercise. Users can see and call this file in their calibration exercise list.

A protocol is used to define the processing and goal of a calibration exercise. A protocol has a describing name.

Click „Edit protocols“ to see the available keys.

List of protocols

	name	filename
edit	Test key	
edit	Hake Otoliths	
edit	test3	attribute_catalogue.xls
edit	test pdf	hilfe.pdf
edit	witich flounder IIIa	wit_trip127_27b.jpg
edit	Test protocol NA redfish	protocol_na_redfish.doc

[add protocol](#)

Figure 38: List of protocols

Click „edit“ in designated key row to edit the settings.

Or

Click „add key“ to add a new key.

After completion click „Save“ button. Click „Cancel“ button to cancel your settings.

Edit protocol

Protocol name:	<input type="text"/>
Current file:	<input type="text"/>
upload file:	<input type="text"/> Durchsuchen...
Save	<input type="button" value="Save"/>
Cancel	<input type="button" value="Cancel"/>

Figure 39: Edit protocol

5.6 Edit expertise

The expertise is a combination of

- area
- species
- subject respectively type of structure

Every user can have expertises. Expertises are related to a species, an area and a subject.

3 stages are available: Beginner, Intermediate and Expert.. See „my user data“ for selecting personal expertise.

Click „edit expertises“ to see the available expertises (see Figure 40).

List of expertises

	Area (free text)	Species	Type of structure
edit	Test area 51		
edit	all		
edit	ICES IX	Clupea harengus	bone
edit	ICES IIIa	Glyptocephalus cynoglossus	otolith
edit	North Sea	Limanda limanda	gonad
edit	North Sea	Pleuronectes platessa	gonad
add expertise			

Figure 40: List of expertises

Click „edit“ in designated expertise row to edit the settings. Or click „add expertise“ to add a new expertise.

After completion click „Save“ button. Click „Cancel“ button to cancel your settings (see Figure 41).

Add expertise

Species:	<input type="text" value="Please select"/>
Area:	<input type="text"/>
Type of structure:	<input type="text"/> Please select
Save	<input type="button" value="Save"/>
Cancel	<input type="button" value="Cancel"/>

Figure 41: Add/edit expertise

6 Workshop manager

6.1 Workshop

6.1.1 Start new workshop

A workshop is an event where a group of people discuss the criteria used to classify a biological structure, commonly otoliths or gonads, with the aim of getting a better agreement among them for one species.

A calibration exercise may be followed by a workshop and further calibration exercises will take place within a workshop. Only the administrator is allowed to start a new or delete a workshop and set a new manager.

Click „start new workshop“.

Create new workshop

Name:	<input type="text"/>
Location:	<input type="button" value="Please select"/>
Startdate (YYYY-MM-DD):	<input type="button" value="Please select"/> <input type="text" value="Sukarrieta"/>
Enddate (YYYY-MM-DD):	<input type="button" value="Please select"/> <input type="text" value="Test Bonn"/>
Institution:	<input type="button" value="Please select"/>
Manager:	<input type="text" value="pforr@zadi.de"/>
change ws manager	<input type="button" value="change ws manager"/>
Save	<input type="button" value="Save"/>

Figure 42: Add workshop form

Fill out the form.

The available items in the selectboxes (e.g. Location, shown in Figure 42, and Institution) can be extended by the admin.

The default workshop manager is you. to select another user.

- Click on „change ws manager“
- Click „Search user“ → (if necessary enter filter criteria) → „Search“ button.
- Click the radio button next to the user in the designated user row.
- Click „set as workshop manager“. You are redirected to the workshop edit form.

After completion click „Save“ button.

6.1.2 Workshop information

To show the information about a workshop, click „List workshops“ → „info“ in the designated workshop row.

6.1.2.1 Calibration exercise statistics

Click on statistics in the designated calibration exercise row to view the statistical tables.

See calibration exercise statistics.

6.1.2.2 Link repository

Click on „add link“ to add a new web link for the workshop for additional workshop information.

6.1.2.3 File repository

Click on „add file“ to add a new file for the workshop for additional workshop information. Enter a description, select a file and click the „Save“ button.

6.2 Start new calibration exercise

The following chapters describe how to set up a calibration exercise including the main settings, the participants and the definition and building of a image set.

6.2.1 Main settings

Click „List workshops“ → „edit“ in the designated workshop row → „start new calibration exercise“.

Enter a name and description and click the „Save“ button. Now you can edit the details.

Calibration exercise: EJ01 (ID: 1)

<p>CE is running stop calibration exercise</p> <p>Calibration exercise name: <input type="text" value="EJ01"/></p> <p>Description: <input type="text" value="My CE"/></p> <p>Protocol: <input type="text" value="protocol_na_redfish.doc (Test protocol NA redfish)"/> Add protocol...</p> <p>Expertise: <input type="text" value="15.all.."/> Add expertise...</p> <p>Show comparable other user/group annotations/references: <input checked="" type="checkbox"/></p> <p>Allow adding images to image set at random: <input checked="" type="checkbox"/></p> <p>Save</p> <p>replicate current calibration exercise</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Shown attributes</th> </tr> </thead> <tbody> <tr><td>LENGTH</td><td>Remove attribute</td></tr> <tr><td>WEIGHT</td><td>Remove attribute</td></tr> <tr><td>ARCHIVING_CODE</td><td>Remove attribute</td></tr> <tr><td>SEX</td><td>Remove attribute</td></tr> <tr><td>AREA</td><td>Remove attribute</td></tr> <tr><td>CAPTURE_DATE</td><td>Remove attribute</td></tr> <tr><td>SPECIES</td><td>Remove attribute</td></tr> </tbody> </table> <p>Please select Add attribute to list</p> <p>Participants Number of participants: 17 Edit participants...</p>	Shown attributes	LENGTH	Remove attribute	WEIGHT	Remove attribute	ARCHIVING_CODE	Remove attribute	SEX	Remove attribute	AREA	Remove attribute	CAPTURE_DATE	Remove attribute	SPECIES	Remove attribute	<p>Imageset attributes</p> <p>FISH_COMMENT: <input type="text"/> Remove attribute</p> <p>save</p> <p>fish <input type="text" value="Please select"/> Add attribute to list</p> <p>image <input type="text" value="Please select"/> Add attribute to list</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>defined imageset</th> </tr> </thead> <tbody> <tr><td>IVA Q1 SL1 OTO 5.jpg</td></tr> <tr><td>IVA Q1 SL1 OTO 5.jpg</td></tr> <tr><td>IVA Q1 SL1 OTO 6.jpg</td></tr> <tr><td>IVA Q1 SL1 OTO 8.jpg</td></tr> <tr><td>IVA Q1 SL2 OTO 8.jpg</td></tr> <tr><td>IVA Q1 SL2 OTO 8.jpg</td></tr> <tr><td>IVA Q1 SL3 OTO 2.jpg</td></tr> <tr><td>wit_trip127_9.jpg</td></tr> <tr><td>remove</td></tr> <tr><td>Number of images: <input type="text"/></td></tr> <tr><td>add at random</td></tr> <tr><td>add images</td></tr> </tbody> </table>	defined imageset	IVA Q1 SL1 OTO 5.jpg	IVA Q1 SL1 OTO 5.jpg	IVA Q1 SL1 OTO 6.jpg	IVA Q1 SL1 OTO 8.jpg	IVA Q1 SL2 OTO 8.jpg	IVA Q1 SL2 OTO 8.jpg	IVA Q1 SL3 OTO 2.jpg	wit_trip127_9.jpg	remove	Number of images: <input type="text"/>	add at random	add images
Shown attributes																													
LENGTH	Remove attribute																												
WEIGHT	Remove attribute																												
ARCHIVING_CODE	Remove attribute																												
SEX	Remove attribute																												
AREA	Remove attribute																												
CAPTURE_DATE	Remove attribute																												
SPECIES	Remove attribute																												
defined imageset																													
IVA Q1 SL1 OTO 5.jpg																													
IVA Q1 SL1 OTO 5.jpg																													
IVA Q1 SL1 OTO 6.jpg																													
IVA Q1 SL1 OTO 8.jpg																													
IVA Q1 SL2 OTO 8.jpg																													
IVA Q1 SL2 OTO 8.jpg																													
IVA Q1 SL3 OTO 2.jpg																													
wit_trip127_9.jpg																													
remove																													
Number of images: <input type="text"/>																													
add at random																													
add images																													

Figure 43: Edit calibration exercise form

- Choose an existing protocol or add a new protocol. See edit protocol.
- Choose an existing expertise or add a new expertise. See edit expertise.
- Check „Show comparable other user/group annotations/references“ if you want to show the other users annotations in the annotation interface or do not check if it's a blind test.
- Check „Allow adding images to image set at random“ if you want to be able to add images to the image set at random.
- After completion click „Save“ button.

6.2.2 Shown attributes

Select the attribute you want to show in the annotation module. Click the „Add attribute to list“ button. To remove a certain attribute again, click „Remove attribute“ next to the designated attribute.

6.2.3 Participants

To add, edit or remove participants click „Edit participants...“.

Calibration exercise: EJ01 (ID: 1)

Assign values

Expertise level

Stock assessment

Role

Assign values form

List of participants

Last name	First name	User name	Reader no.	Expertise level	Stock assess.	Role
<input type="checkbox"/> Rauthe	Norman	rauthe@zedat.fu-berlin.de	1	Trainee	0	Expert
<input type="checkbox"/> Pforr	Ingmar	pforr@zedat.fu-berlin.de	2	Trainee	0	Coordinator
<input type="checkbox"/> Moksness	Erlend	moksness@zedat.fu-berlin.de	3	Expert	0	Coordinator
<input type="checkbox"/> Quincoces	Iñaki	iquincoches@zedat.fu-berlin.de	4	Expert	0	Coordinator
<input type="checkbox"/> Jardim	Ernesto	ernesto@jardim.pt	5	Expert	0	Coordinator
<input type="checkbox"/> Hansson	Maria	maria.hansson@vatten.se	6	Trainee	0	Reader
<input type="checkbox"/> Cardador	Fátima	cardador@vatten.se	7	Trainee	0	Reader
<input type="checkbox"/> Sjöberg	Rajile	rajile.sjoberg@vatten.se	8	Intermediate	0	Reader
<input type="checkbox"/> Anastasopoulou	Katerina	kanast@vatten.se	9	Trainee	0	Reader
<input type="checkbox"/> kéligh	mahe	kelig.mahe@vatten.se	10	Trainee	0	Reader
<input type="checkbox"/> murenu	matteo	mmurenu@zedat.fu-berlin.de	11	Trainee	0	Reader
<input type="checkbox"/> Berth	Ulrich	ulrich.berth@zedat.fu-berlin.de	12	Trainee	0	Reader
<input type="checkbox"/> Piñeiro	Carmen	carmen.pineiro@zedat.fu-berlin.de	13	Trainee	0	Reader
<input type="checkbox"/> de Boois	Ingeborg	ingeborg.deboois@zedat.fu-berlin.de	14	Trainee	0	Reader
<input type="checkbox"/> McCurdy	William	willie.mccurdy@zedat.fu-berlin.de	15	Trainee	0	Reader
<input type="checkbox"/> Vitale	Francesca	francesca.vitale@zedat.fu-berlin.de	16	Trainee	0	Reader
<input type="checkbox"/> etherton	mark	mark.etherton@zedat.fu-berlin.de	17	Trainee	0	Reader

[Search user\(s\) to add](#)

[Back](#)

Figure 44: Edit participants form

6.2.3.1 Add participants

Click „Search user(s) to add“ → (if necessary enter filter criteria) → „Search“ button

Check the boxes next to the users in the designated user rows. Click „Add to participants“ button.

6.2.3.2 Remove participants

Check the boxes next to the participants in the designated participant rows. Click „Remove from participants“ button.

6.2.3.3 Assign values to participant(s)

With this special form you can apply settings to all checked participants at once.

1. Check the boxes next to the participants in the designated participant rows.
2. Check the attribute boxes next to the attributes you want to assign/reassign. Select values for the attributes.
3. Click the „Apply to selected“ button. Note: Current values for the participants will be overwritten.

Click „Back“ to go back the the calibration exercise details.

6.2.4 Imageset attributes

The imageset is the selection of images for an calibration exercise. Only these exercise specific images will be available in the annotation module.

List of images

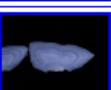
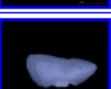
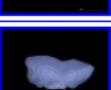
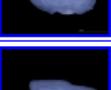
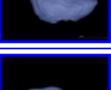
Thumbnail	Original file name	Fish sample code	Width	Height	LENGTH mm	SPECIES	FISH_COMMENT
<input checked="" type="checkbox"/> 	IVA.Q1.SL1.OTO.5.jpg	IVA.Q1.SL1.OTO.5	1280	960			
<input checked="" type="checkbox"/> 	IVA.Q1.SL1.OTO.6.jpg	IVA.Q1.SL1.OTO.6	1280	960			
<input checked="" type="checkbox"/> 	IVA.Q1.SL1.OTO.8.jpg	IVA.Q1.SL1.OTO.8	1280	960			
<input type="checkbox"/> 	IVA.Q1.SL2.OTO.6.jpg	IVA.Q1.SL2.OTO.6	1280	960			
<input checked="" type="checkbox"/> 	IVA.Q1.SL2.OTO.8.jpg	IVA.Q1.SL2.OTO.8	1280	960			
<input checked="" type="checkbox"/> 	IVA.Q1.SL3.OTO.2.jpg	IVA.Q1.SL3.OTO.2	1280	960			
<input type="checkbox"/> 	IVA.Q1.SL3.OTO.4.jpg	IVA.Q1.SL3.OTO.4	1280	960			
<input type="checkbox"/> 	IVA.Q1.SL3.OTO.5.jpg	IVA.Q1.SL3.OTO.5	1280	960			
<input type="checkbox"/> 	IVA.Q1.SL3.OTO.7.jpg	IVA.Q1.SL3.OTO.7	1280	960			

Figure 45: List of images, images already assigned have readonly check mark

1. Select fish or image attribute and click „Add attribute to list“ button.
2. Enter or select value(s) for the attribute. In the case of simple number fields (integer/decimal) you are able to enter FROM and TO value for ranges with larger than/equal and smaller than/equal. For the exact value enter the same value in the FROM and TO field.
3. Click „Save“ button to save the imageset attribute settings.
4. In case you want to have more attributes combined repeat 1.-3.

5. Click „add images“ to add images for the now defined imageset.
6. Check the boxes next to the images in the designated image rows.
7. Click „add images“ button.

Click „remove“ next to the image you want to remove from the imageset again. This function is not available for images that have annotations already.

Click „remove attribute“ next to the attribute you want to remove from the imageset attributes again.

6.2.5 Calibration exercise final notes

Please make sure you set key, expertise, comparable and imageset to your needs. Calibration Exercises with incomplete settings will not be shown.

The workshop manager / CE coordinator can start and stop calibration exercises.

Calibration exercise: EJ01 (ID: 1)

CE is running [stop calibration exercise](#)

Calibration exercise name:
EJ01

Description:
My CE

Protocol:
FISH_1 fish

Figure 46: start/stop state in calibration exercise

If a calibration exercise is started, it is not possible to delete the calibration exercise.

If a calibration exercise is stopped, it is not possible to make annotations. However the reading of annotations is possible.

7 Administrator

The administrator can parametrise the application to the institutions needs. It is possible to add attributes, add and edit value lists, that are used for the search and edit forms within the application.

7.1 Preface

For security reasons, the **BACK BUTTON OF BROWSER** isn't allowed in all forms.

7.2 Login and logout

Click on any menu item to login. Login with your username = e-mail address and personal password. The password is stored encrypted, so it's not possible to read out, only to reset.

Click on „Logout“ below the menu items to logout.

7.3 Preparation

7.3.1 Edit user

To set a new role to a user you have to edit the user. Click „Search user“ → (if necessary enter filter criteria) → „Search“ button, click „edit“ in designated user row, choose role in role select and click „Save“ button. Choose data-manager or ws-manager.

If necessary, click **BACK BUTTON OF BROWSER** twice and repeat.

7.3.2 Edit attribute descriptor

7.3.2.1 Attributes

Attributes are used in many places in the application...

- if you add or edit an image or fish (edit form)
- if you search an image or fish (search form)
- in the calibration exercise
 - as saved list („show attributes“)
 - as saved filter form with saved filter values („imageset attributes“)
- in the search result (result table)
- in the import

To add or edit meta data fields to image or fish, click „Attribute description“. Attributes can be used and seen in search and edit forms.

Click „edit“ in designated attribute row to edit the settings. Or Click „add attribute descriptor“ to add a new attribute descriptor.

Detail	Description	Restriction, constraint Admin has to take care
owner	Only owner and admin can change/delete the attribute.	
name	The used name in input, forms and tables.	
unit	A unit for the attribute value (see unit).	
description	The description	
default value	Enter a „default value“ for a prefilled form field.	
is required	Check if field has to be filled out in edit forms.	
is standard	Check if field has high priority in form (is shown first). See sequence, too.	
active	Check to allow general usage (if attribute is shown in search/edit forms/result tables).	
data type	The data type	integer if select, multiselect, radiobuttons, multicheckbox boolean if single checkbox
form type	The input type resp. form element in edit forms <i>Use single checkbox for YES/NO selection.</i> <i>Use radio button for single selection from long list.</i> <i>Use multicheckbox for multiple selection from long list.</i> See Form elements.	select, radiobuttons if value list multiselect, multicheckbox if value list and is multiple
has valuelist	Decide whether attribute has free value (open) or certain defined values (closed).	on if select, multiselect, radiobuttons, multicheckbox off if text, textarea, checkbox
sequence	The sequence number in forms and tables. See is standard, too.	1=highest... 999999...= very low, 0 = lowest, number can be used multiple times.
is multiple	Object has multiple values for this attribute.	
show in list	Decide whether search result table shows this attribute/value.	
attribute group	The object which the attribute belongs to. E.g. the fish form, the image form	fish, image, system

After completion click „Save“ button.

7.3.2.2 *Units*

„UNIT“ is an special system attribute that is available for all attributes and that shows up after the attributes in forms. One attribute can have only one unit.

7.3.2.3 *Value lists*

If the attribute has an value list (box „has valuelist“ is checked), you can edit the possible values.

Click „Add value list“ or „Edit value list“. Edit the current values and click „Update“ button. Or enter new entry and click „Add“ button.

After completion click „Back“.

7.3.3 Further preparation

For further steps see the chapters for editing protocols (page 46) and editing expertises (page 47).

8 FAQ

- Pictures are of low quality on my screen, difficult to see rings
- did you try zooming?
- For Image Q1-17_1 nothing happens if I press copy WS
- two things can cause this. For the first there are no annotations made in the reference and for the second the annotations where exactly at the same positions as your annotations. But there is also a bug, for some situations the program makes automatically a annotation at the point 0,0
- How do I return to the main page after finishing?
- click "My CE"

-Search gives error message: Nothing found! There are no results for your search.

-Try less filters.

What does a certain input field mean?

Please ask the administrator about the definition of the meta data.

- What happens if I press 'Save as'? There is no option to define any name, so why is the button 'Save' not available? –we assume that save is only to save an existing annotation and save as is meant to save a new annotation. Why do we need two buttons? In both cases we overwrite an annotation – an empty one or a filled. If this can be combined in one button this would be nice.
- "save as" means save as new annotation and "save" means update the current annotation
- What happens when using the refresh (all annotations) button?
- this function is only interesting for long-lasting CE sessions, then you have the possibility to see instantly the new annotation from the other readers which have been made in the meantime.
- Do we have the possibility to test the higher permission levels? E.g. are we able to upgrade a final reading to a workshop agreed annotation? The coordinator is able to manage this, please ask them.
- Is it possible to see my personal information (e.g. permission levels etc.) without having to leave the calibration exercise?
- On the bottom of the first tab "fish / image" you see your participant role. What other information do you want to see?
- How can we close the session and return to the menu? (now we use 'back' but this is not the way we think is appropriate).
- its ok, but you can use the button "My CEs"

- Permissions: If someone is in a calibration exercise, this person should not be allowed to see the reference annotation because otherwise you'll never have a proper calibration exercise.
- You can setup this in the CE administration interface.

9 Form elements

Purpose	Graphical example	Edit form	Search form	Result list form
Check yes or no	I have a car: <input type="checkbox"/>	Checkbox (single)	Checkbox (single)	1=on or 0=off/not set
Free text field, also for numbers, dates, times	First name: <input type="text"/>	Textbox	Textbox FROM Textbox TO	Text
Free text field with line break	The cat was playing in the garden.	Textarea	Textarea	Text
Select one value from a set		Select	Multicheckbox	Value list value
	Male: <input checked="" type="radio"/> Female: <input type="radio"/>	Radio button (easier than Select, but more space required)	Multicheckbox	Value list value
Select multiple values from a set		Multiselect	Multicheckbox	Value list value, multiple rows, normal attributes are repeated / one row, multiple attributes are grouped
	<input type="checkbox"/> Option 1 <input checked="" type="checkbox"/> Option 2 <input checked="" type="checkbox"/> Option 3 <input type="checkbox"/> Option 4 <input type="checkbox"/> Option 5 <input type="checkbox"/> Option 6	Multicheckbox (easier than Multiselect, but more space required)	Multicheckbox	

10 Abbreviations

Specific project WebGR abbreviations

CE = calibration exercise

CS = calcified structure

TE =

WS = workshop (formerly used in WebGR)

WK = workshop (used in real life)

General project abbreviations

berliOS = Berlin Open Source, as seen as domain name in URLs, communication platform for users, developers, and service providers of open source software

BLE = Bundesanstalt für Landwirtschaft und Ernährung

CSV = Comma (/Character) separated values

FK = Foreign key

GUID = Globally unique

ID = Identity (number/key)

PDF = Portable document format

PK = Primary key

URL = Unique resource locator

ZADI = as seen as domain name in URLs: Zentralstelle für Agrardokumentation und -information (former government institute, integrated as Gruppe 42 (group 42) into the Bundesanstalt für Landwirtschaft und Ernährung)