

ECOTAXA

FIRST STEPS

Quantitative Imagery Platform of Villefranche sur Mer (PIQv)

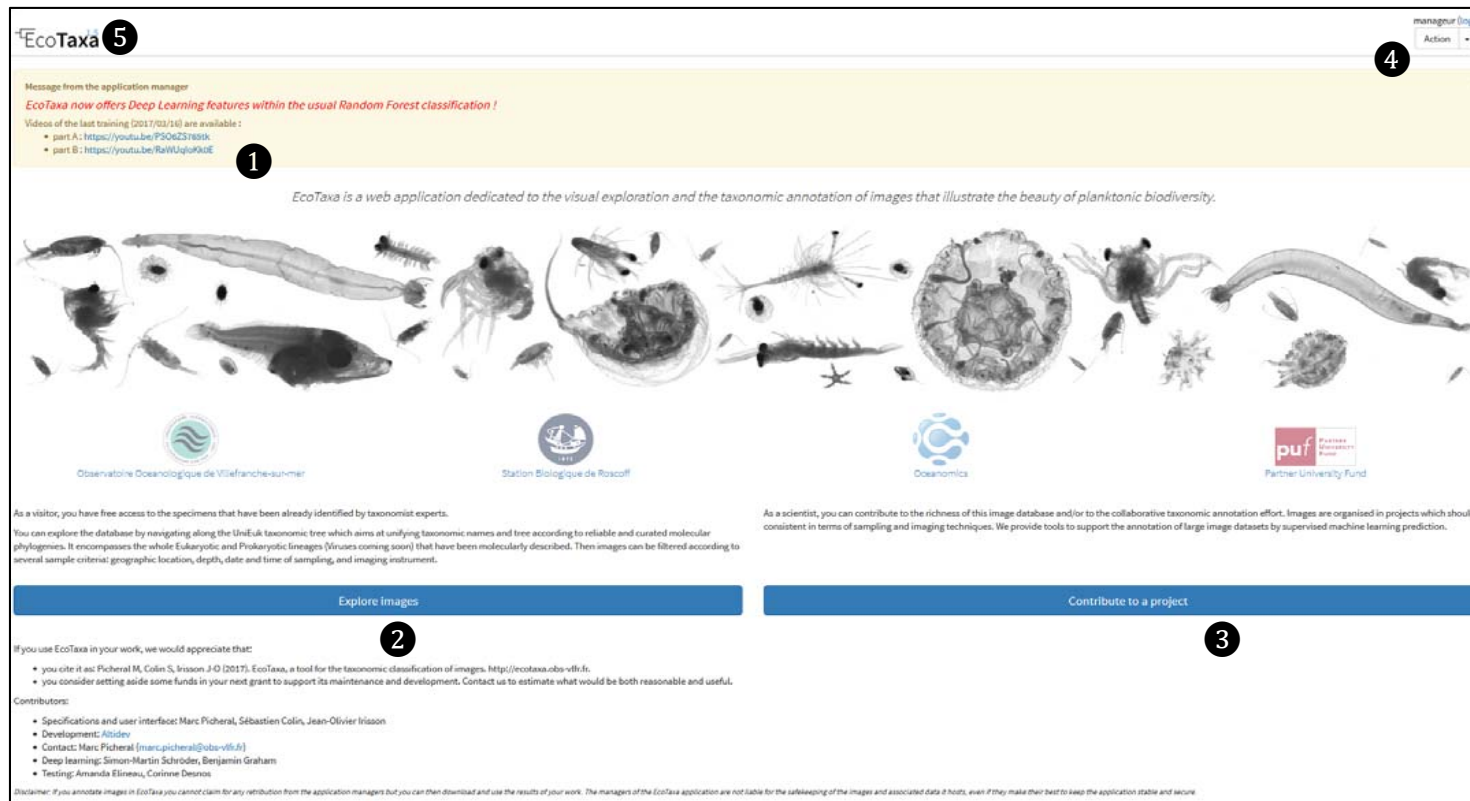
Elineau

2018/11/13

Summary

1.	Main page.....	3
2.	Glossary	4
2.1	How is built an Ecotaxa window?	4
2.2	Status of images	5
2.3	The different rights according to the accounts	6
3.	Explore images page.....	7
3.1	Filters bar	7
3.2	Topper bar.....	8
3.3	Toolbar.....	8
3.4	Image page	9
4.	Contribute to a project page.....	10
4.1	Access to the whole list of projects hosted into Ecotaxa.....	11
4.2	How to prepare my new project?	12
4.2.1	Edit project settings (for a manager account)	12
4.3	My project.....	15
4.3.1	Topper bar.....	15
4.3.2	Toolbar.....	15
4.3.3	Other filters.....	16

1. Main page



1 Video Tutorial

2 Explore images

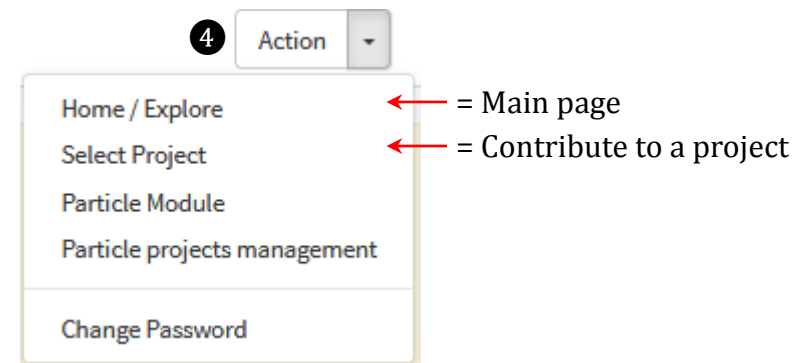
- no need to have an account to access to this function

3 Contribute to a project

- need to have an account to access to this function

4 "Action" button

5 Shortcut to the main page



2. Glossary

2.1 How is built an Ecotaxa window?

The logo for Ecotaxa 1.5, featuring the text "EcoTaxa" in a serif font with a small "1.5" in blue above the "a", and a small square icon to the left.






Topper bar

Toolbar

Filters bar

Image page

2.2 Status of images

Status of the images	Action	Status color
Unclassified	Image just uploaded into the project	
Predicted	Image just predicted by learning	
Validation in process	Image not yet validated	
Validated	Image validated	
Dubious	Image classified in dubious	

All =

Unclassified + Predicted + Validated + Dubious

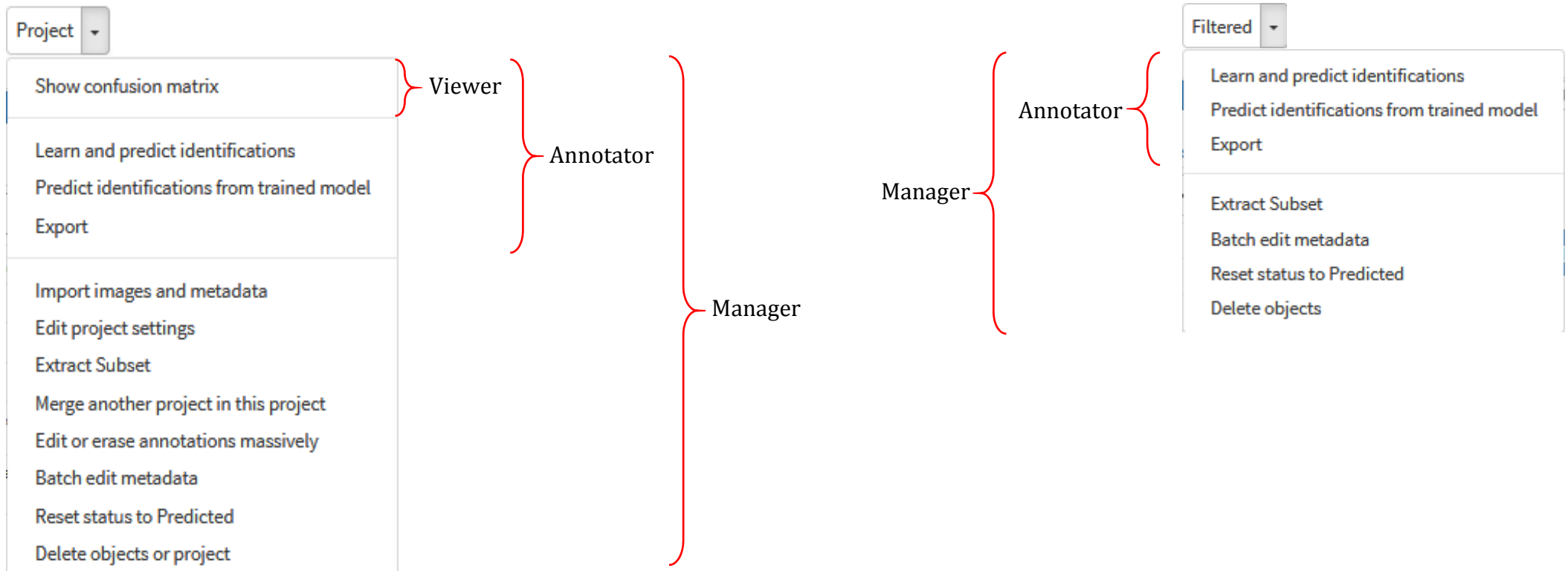
Not Validated =

Unclassified + Predicted + Dubious

Classified =

Predicted + Validated + Dubious

2.3 The different rights according to the accounts



3. Explore images page

Viewing a batch of validated images taken randomly from all projects (around 1000 images) hosted on Ecotaxa.

3.1 Filters bar



Update view & apply filters

Clear filters Share page

Hide filters

Project

Sample **Advanced** Clear

Sample

Depth **Clear**

Min [m] Max [m]

Location **Clear**

West North East
South

Open map

Date **Clear**

Begin End

Month

Time invert **Clear**

Begin End

Day time

Instrument **Clear**

Instrument

Validated Plankton filter **?**

Also display children

living (7758624)
not-living (10090778)
temporary (314112)

Click on this button to apply the filters selected on the Image page (see below)

Clear all the filters selected (see below)

Allows to share the page with your applied filters (also works for a recipient without Ecotaxa account)

Allows to select a specific project in all projects hosted on Ecotaxa

Allows to select several samples in the project selected

Allows to select one specific sample in the project selected

Allows to select all the images depending to a depth interval of sampling

Allows to select all the images depending to a specific area of sampling

Allows to select all the images depending to a date interval of sampling

Allows to select all the images depending to a specific month of sampling

Allows to select all the images depending to a time interval of sampling

Allows to select all the images depending to a specific time of sampling

Allows to select all the images depending to a specific instrument/Click on the question mark to see the list

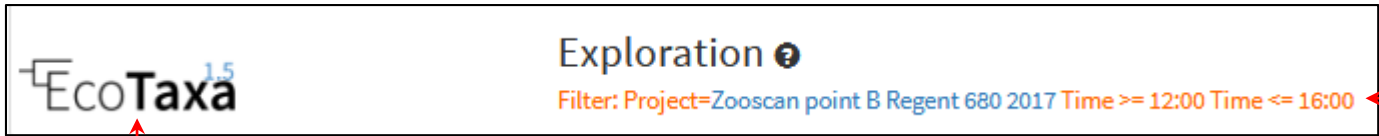
Allows to select all the images depending to a specific taxa by writing the name

Allows to select all the images depending to a specific taxa selected + all his children when checked

Allows to select all the images depending to a specific taxa using the tree of life

NB: Some filters can be combined

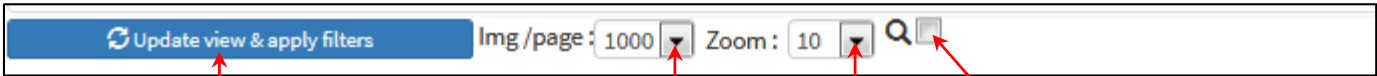
3.2 Topper bar



Informations about the selected filters

Shortcut to the main page

3.3 Toolbar



Click on this button to apply the requested changes about number of images, magnification and the magnifying glass

Allows to select the number of images that will appear

Allows to select the magnification of the images

When checked, apply a magnifying glass when you go over an image with the mouse pointer

4. Contribute to a project page

Select a project

[How to create a project](#)

[How to prepare data](#)

Create a new project

You must be the manager of at least one project to have permission to create new projects

See chapter 2.2

Total number of objects: all statuses combined

% of objects with the validated status

% of objects with the validated + predicted + dubious status

See the chapter 4.3.1

Number ID of the project into Ecotaxa

	Title [ID]	Status	Nb objects	% validated	% classified
Select	Zooscan point B Juday Bogorov 300 2012 [163] Amanda Elineau	Annotate	19153	84.34	100.00
Select	Zooscan point B Juday Bogorov 300 2013 [164] Amanda Elineau	Annotate	24398	12.75	100.00
Select	Zooscan point B Juday Bogorov 300 2014 [165] Amanda Elineau	Annotate	41405	16.37	100.00
Select	Zooscan point B Juday Bogorov 300 2015 [127] Amanda Elineau	Annotate	23330	100.00	100.00
Select	Zooscan point B Juday Bogorov 300 2016 [16] Amanda Elineau	Annotate	20530	100.00	100.00
Select	Zooscan point B Juday Bogorov 300 2017 [335] Corinne Desnos	Annotate	25542	100.00	100.00
Select	Zooscan point B Juday Bogorov 300 2018 [757] Corinne Desnos	Annotate	31514	95.90	95.90
Select	Zooscan point B Juday Bogorov 300 2018 journée [738] Corinne Desnos	Annotate	22831	95.02	95.02

Show projects in which you are not registered

Manager name of the project, you can send an email by clicking on the name

See chapter 4.1

4.1 Access to the whole list of projects hosted into Ecotaxa

By clicking on the View button, you can access to the project with a viewer status (see chapter 2.3 and 4.3.1.1)

See chapter 2.2

Total number of objects: all statuses combined
% of objects with the validated status
% of objects with the classified status

See chapter 4.2.1.1

Other projects		Title [ID]	Status	Nb objects	% validated	% classified
REQUEST ACCESS	View	[690] Yoshiyuki Abe	Annotate	0	0.00	0.00
REQUEST ACCESS	View	1_Learning_set_mn_lrg [466] Rainer Kiko	Annotate	13737	99.94	100.00
REQUEST ACCESS	View	1_Learning_set_mn_med [465] Rainer Kiko	Annotate	14637	100.00	100.00
REQUEST ACCESS	View	1_Learning_set_mn_sml [848] Rainer Kiko	Annotate	26927	100.00	100.00
REQUEST ACCESS	View	1_learning_set_UVP [499] Rainer Kiko	Annotate	31196	100.00	100.00
REQUEST ACCESS	View	2017-02-26_01_07_51.420 [765] Alessandra Gomes	Annotate	4	0.00	100.00
REQUEST ACCESS	View	20181018 [1352] chang tan	Annotate	0	0.00	0.00
REQUEST ACCESS	View	2_uvp5_learning_set_extension [970] Rainer Kiko	Annotate	47224	26.50	100.00
REQUEST ACCESS	View	_Modele_Zooscon [1040] Laetitia Jalaber	Annotate	1456758	100.00	100.00
REQUEST ACCESS	View	ACIDD [FCB - UCSB] [915] Sasha Kramer	Annotate	0	0.00	0.00

Manager name of the project, you can send an email by clicking on the name

By clicking on the Request Access button, you will send an automatic email to the manager of the project to ask an access

4.2 How to prepare my new project?

At this step you already have created your project and named it (see chapter 4 > “Create a new project” button).

4.2.1 Edit project settings (for a manager account)

“Project button” > “Edit project settings” tool

4.2.1.1 Status of the project and privileges

Access button to invite new users to work on your project (see chapter 2.3)

Edit project # 582 - Edit privileges only

Project Title: Myproject

Visible for all visitors (only validated objects):

Status: Annotate

Project Description: [Text area]

When it's selected, you give the access to your project to all the users of Ecotaxa like a viewer. A button “VIEW” will appear to the list of the projects (see chapter 4.1)

You can change the status of your project (column status > see chapter 4.1):

- Annotate: You open the annotation/prediction to your project
- ExploreOnly: You block the annotation/prediction to your project (it will also impact users with annotation rights)
- Annotate No Prediction: you open the annotation but block the prediction

To give more information about your project

4.2.1.2 Taxonomy filter

You can create a list of classification before starting the prediction/annotation. It gives a logical meaning to your list.

If you miss this step, the categories will be classified by alphabetic order and will make the classification more difficult.

Step 1: Fill in the taxonomy field

Step 2: The ID of your taxonomy categories will appear (you can COPY/PASTE this list of IDs between different projects)

Step 3: The Taxonomy filter will be modified automatically

Definition of preset for manual sorting 2 11514,25828,45074,45072,61990,62005,61996

1 × Acartiidae (Calanoida) × Calanoida (Copepoda) × Centropagidae (Calanoida) × Chaetognatha (Metazoa) × Copepoda (Maxillopoda) × Cyclopoida (Copepoda) × Oithonidae (Cyclopoida)

EcoTaxa 1.5 Myproject (-/0)

Project Filtered

Update view & apply filter Select all ↑↓ Display Status All 100 100 %

Taxonomy filter Other filters

No Result

Chaetognatha (Metazoa)	0
▼ Copepoda (Maxillopoda)	0
▼ Calanoida (Copepoda)	0
Acartiidae (Calanoida)	0
Centropagidae (Calanoida)	0
▼ Cyclopoida (Copepoda)	0
Oithonidae (Cyclopoida)	0

Reset Counts Hide empty categories

↑ Save pending changes [CTRL+S] Validate all and move to next page Validate Selection Undo

4.2.1.3 Tools

The image shows two panels, each containing a list of fields. The top panel is titled "Fields available for sorting & Display In the manual classification page" and lists: depth_min=depth_min, depth_max=depth_max, area=area [pixel], mean=mean [0-255], fractal=fractal, major=major [pixel], symetrieih=symetrieih, circ.=circ, and feret = Feret [pixel]. The bottom panel is titled "Fields displayed in image popover in the manual classification page" and lists the same fields with some characters crossed out: depth_min=depth_min, depth_max=depth_max, area=area [pixel], mean=mean [0-255], fractal=fractal, major=major [pixel], symetrieih=symetrieih, circ.=circ, and feret = Feret [pixel].

By filling in these fields, you will add more tools for classification assistance. This list corresponds to the variables that you have imported into the tsv tables.

The image shows a software interface with a dropdown menu open. The menu lists: Category Name, Random, Validation date, Image Name, Score, area [pixel], circ, depth_max, depth_min, feret [pixel], fractal, major [pixel], mean [0-255], and symetrieih. A red dashed line connects this menu to the fields listed in the panels above. Below the menu, there are buttons for "and move to next page", "Validate Selection", and "Undo".

SCN Network

You have to select the SCN corresponding to your instrument to benefit from the use of the Deep learning.

4.3 My project

4.3.1 Topper bar

Shortcut to the main page

Project name

Number of images in your project depending of the status (see chapter 2.2)

Total number of objects: all statuses combined



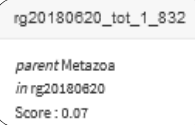
Tools that you can use on the project as a whole

Tools that you can use after applying filters

The color bar shows the progress of your project

4.3.2 Toolbar

Allows to add some information on the popover of your images (see chapter 4.2.1.3)



When checked, a label with more information appears when you go over an image with the mouse pointer



Click on this button to apply the tools selected on the Image page

Allows to filter your images according to variables in ascending/descending order (see chapter 4.2.1.3)

Allows to filter your images according to the status (see chapter 2.2)

Allows to select the number of images/page that will appear

When checked, apply a magnifying glass when you go over an image with the mouse pointer

Allows to size the images on the page

4.3.3 Other filters

Update view & apply filter

Taxonomy filter | Other filters

Share page | Clear all filters

Sample

Depth Min [m] Max [m]

Location

Date

Time invert

Instrument

Annotator / Free filters

Update view & apply filter

Save filters

Apply saved filters and update view

See chapter 3.1

← Allows to select all the images depending to a specific annotator

← Allows to select all the images depending to specific variables from Object details

← Allows to select all the images depending to specific variables from Sample/Acquisition/Processing details

← Allows to save your selected filters

← Apply your selected filters even if you disconnect from Ecotaxa