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OAI-PMH Interface production version

Part 1: Public User Interface

D08 – Deliverable 2.4.2

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Dissemination Level

P	Public	X
C	Confidential, only for members of the consortium and the Commission Services	

0 REVISION AND DISTRIBUTION HISTORY AND STATEMENT OF ORIGINALITY

Revision	Date	Author	Organisation	Description
Draft	2012-02-09	A. Höller	AIT	First Version (Draft)
1	2012-02-16	A. Höller, G. Koch, W. Koch	AIT	Revision
1b	2012-02-24	Coordination Team	BGBM	Minor editing
1c	2012-02-27	Coordinator	BGBM	Some editing

NB : The Software and user interface was developed in collaboration and with input from the TMG over the past 6 months.

Statement of Originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

Distribution

Recipient	Date	Version	Accepted YES/NO
TMG	2012-02-17	1	YES
Work Package Leader WP2 (G. Malarky, NHM)	2012-02-22	1	YES
Project Coordinator	2012-02-24	1c	YES

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1 DESCRIPTION OF WORK

This document illustrates the usage of the OAI-Provider. Users with appropriate permission (e.g. content provider for their own data) can reach it by typing <http://web-openup.nhm.ac.uk/oai-provider/index.php> into an internet browser. This document represents the perspective of the User (content provider).

With the OAI-Provider you can search through all data that has been uploaded. The OAI-Provider-Platform offers the chance to look on the generated records and control their correctness for ingestion into the Europeana portal¹.

The following figure depicts the workflow for the ingestion of OpenUp! records into Europeana. In the present document the public part of point 6 (highlighted in red) of this workflow is being described.

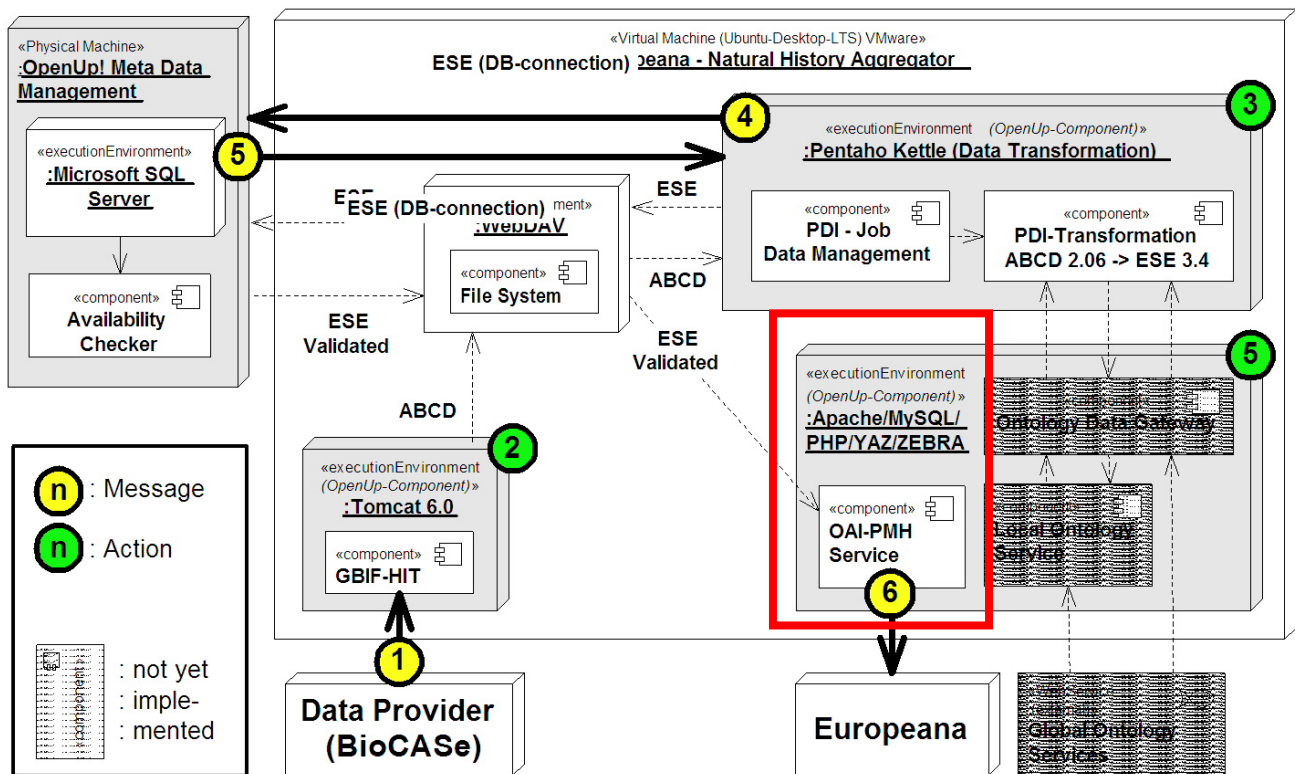


Figure 1 Ingesting records into Europeana (overall workflow)

¹ Europeana portal. <http://www.europeana.eu> 16 Feb. 2012.

2 THE OAI-PROVIDER FOR USERS

When going to <http://web-openup.nhm.ac.uk/oai-provider/index.php>, users with appropriate permissions can see the following window (see Figure 2).

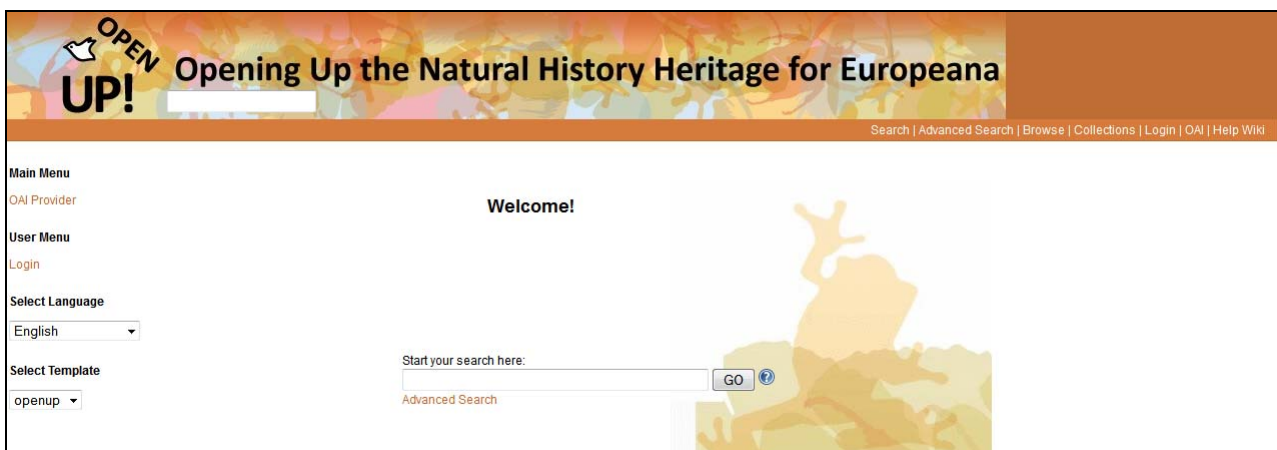


Figure 2 Homepage of the OAI-Provider

As you can see there are links at the left side (Figure 3) and in the upper right corner (Figure 4).

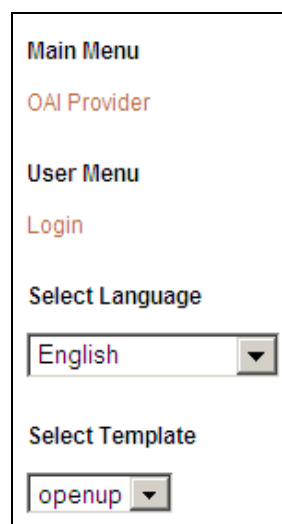


Figure 3 Menu on the left side of the starting page

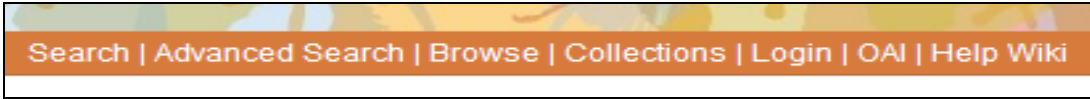


Figure 4 Menu at the top right corner of the starting page

In the middle of the page you can immediately start searching –without logging in. You can insert a special search term or simply type “*” (Figure 5) and all data is going to be shown as result (see Figure 6).

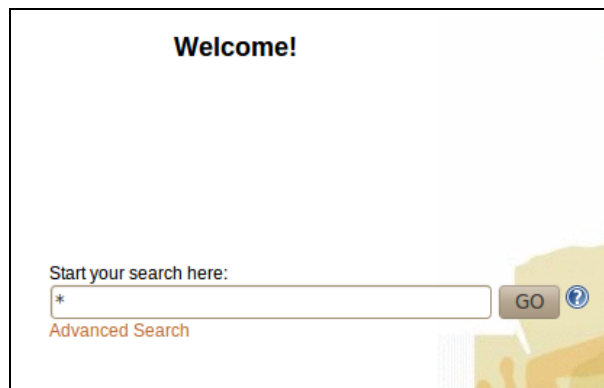


Figure 5 Starting the search with the query “*”

Main Menu

OAI Provider

Index scan: Archive

HERBAR (142101)

ZOBODAT (73253)

HERBARWU (26311)

HERBARWU (19410)

ORCHNG (8345)

ZSAO (6810)

HIFN 2 (6361)

NOTEBOOKS (2546)

COP (2298)

KROM (2116)

ZMNS (1307)

BLOCH (1094)

MLW (729)

SAHLBERG (611)

DAVA (180)

User Menu

Login

Select Language

English

Select Template

openup

Search for OBJECTS >

Search in the field Any Field

Items with Digital Objects

Multilingual options

291468 items found The query was (“*”) Search result list (grid)

Items 1 to 10 #1 [1] 10

#	Sel.	Collection Data Provider	Type	ID	Title Contributor, Date	Resource
1.	<input type="checkbox"/>	COP ETI BioInformatics, Leiden, the Netherlands		ETI - Cop - 693	Chiridiella bichela	
2.	<input type="checkbox"/>	COP ETI BioInformatics, Leiden, the Netherlands		ETI - Cop - 566	Bradyidius rakuma	
3.	<input type="checkbox"/>	COP ETI BioInformatics, Leiden, the Netherlands		ETI - Cop - 806	Chiridius gracilis	
4.	<input type="checkbox"/>	COP ETI BioInformatics, Leiden, the Netherlands		ETI - Cop - 1921	Pseudochirella gibbera	

Figure 6 Result after typing “*” in the search field

2.1 Advanced search

As you can see in Figure 6 on the left side all collections are listed under “Index scan: Archive”. The numbers in brackets give the amount of records for each collection (see Figure 7).

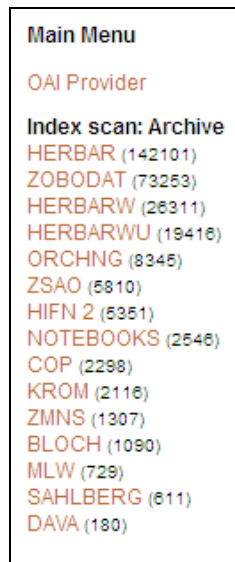


Figure 7 Listed collections with the number of records in brackets

When clicking on one of these collections the name appears in the search field nearby (see Figure 8).

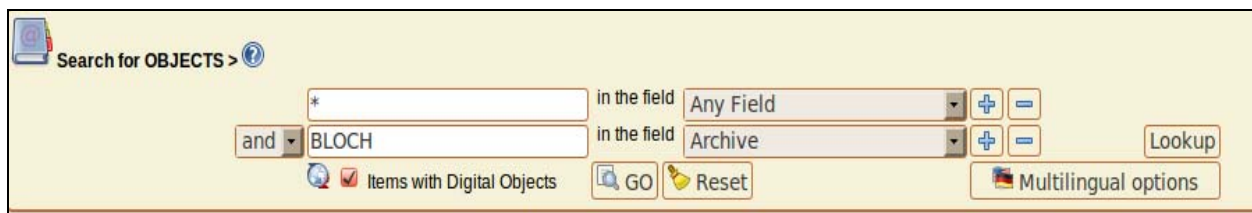
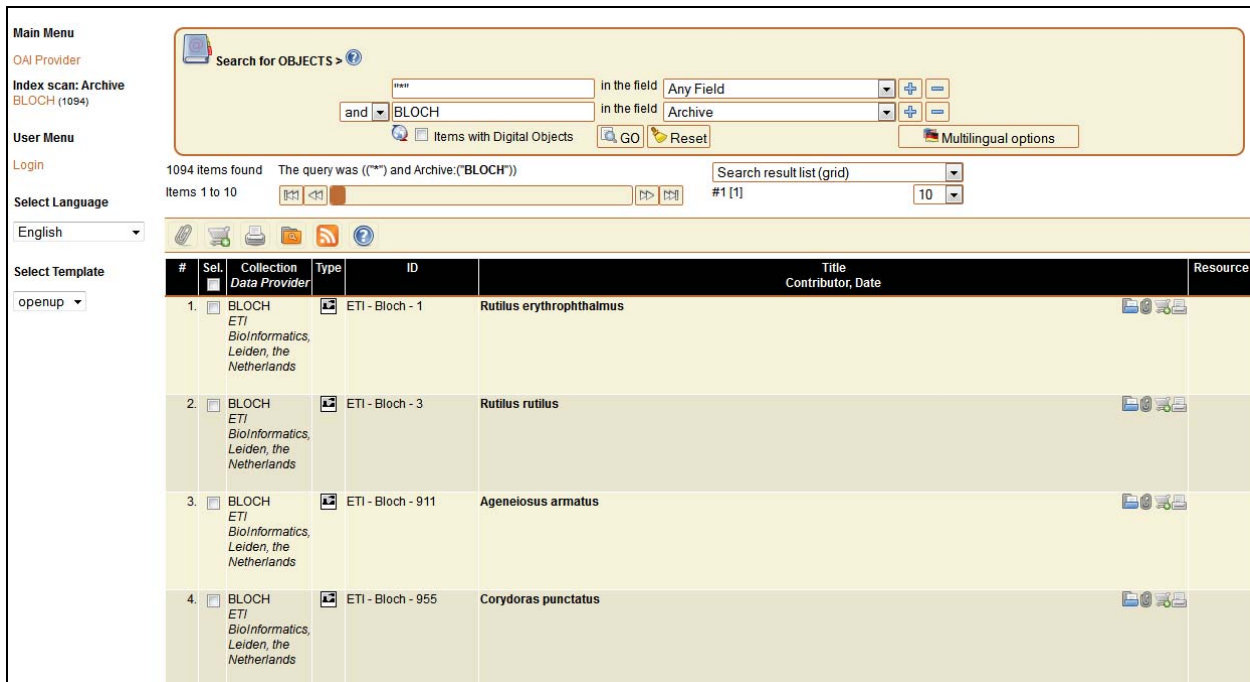


Figure 8 After clicking on the collection “Bloch” it appears in the search terms

The search query has been added with an “and” operator because we have already typed in the “*” before. In this section you can customize your search further. You can, for example, determine in which field a certain term should appear. Or you can check the option “Items with Digital Objects”. Then only these records are shown, that also have a direct link to a digital object.

You can go to this search window by clicking on “Advanced search” in the upper right corner too (compare Figure 4).

If your query is finished click on “Go” for starting the search process or “Reset” for starting a new search. When the search with the settings shown in Figure 8 is done, the result is the following (see Figure 9).



The screenshot shows the OpenUp! search interface. At the top, there is a search bar with the text "Search for OBJECTS >". Below it, a search query is displayed: "BLOCH" in the field "Archive". The results show 1094 items found. A table of search results is displayed below, with columns for #, Set, Collection, Data Provider, Type, ID, Title, Contributor, Date, and Resource. The table contains 4 records:

#	Set	Collection	Data Provider	Type	ID	Title	Contributor, Date	Resource
1.	<input type="checkbox"/>	BLOCH	ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 1	Rutilus erythrophthalmus		
2.	<input type="checkbox"/>	BLOCH	ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 3	Rutilus rutilus		
3.	<input type="checkbox"/>	BLOCH	ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 911	Ageneiosus armatus		
4.	<input type="checkbox"/>	BLOCH	ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 955	Corydoras punctatus		

Figure 9 Result after searching for a specific collection with digital objects

Now a list of records that match your query is shown (Search result list – grid). You can see the name of the collection and data provider, the type of the digital object (icon), the ID and the Title, Contributor and Date. On the very right the resource (thumbnails) are displayed. Beside every title there are four symbols (see Figure 10).



Figure 10 What you can do with a record

They show the possibilities you have in dealing with the record. You can either display the details of the record (blue symbol), add it to your favourites (paper clip), add it to your basket (trolley) or print it (printer). The possibility to add a favourite or use the basket are enabled in the public version of the OpenUp! OAI platform. The click on the Title of the record opens the detail view as well.

2.2 Displaying a record

When clicking on the first symbol for displaying a record or the Title of the record you will see the following screen (see Figure 11)

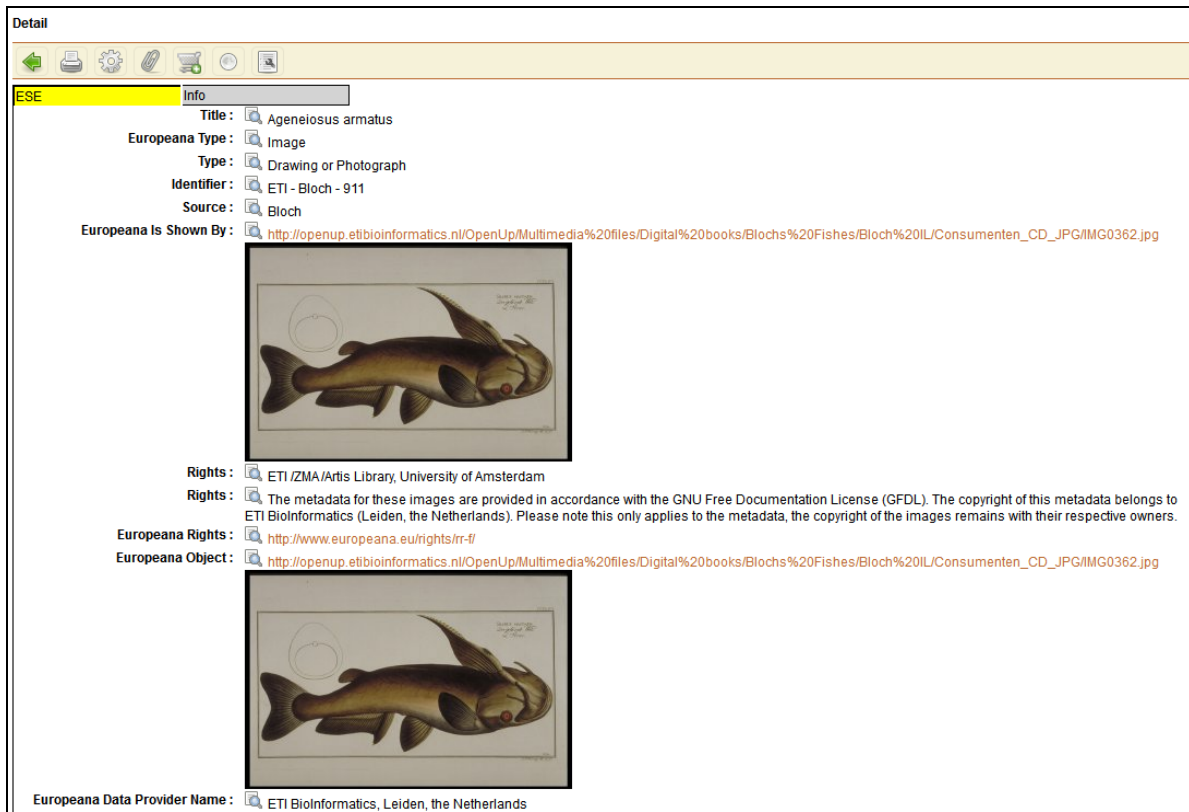


Figure 11 Displaying a record with search terms highlighted

As you can see there are two tabs: “ESE” and “Info”. Figure 11 shows the section “ESE”. There you can see the data of the record (Dublin Core fields and ESE fields) together with its links to the digital object and the digital object itself.

When you click on the link after “Is Shown By” or after “Object” you can have a look on the picture in a new window (see Figure 12).

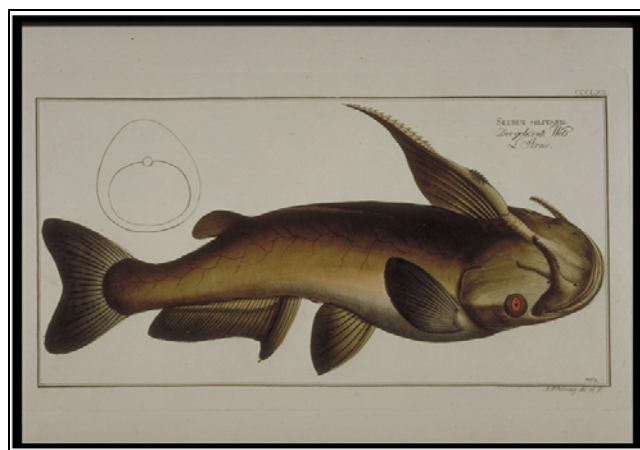


Figure 12 Displaying picture after clicking on “Is Shown By”

Before every line of data there is a magnifier symbol. When you click on one of these the value of the same field (for example “Title”) is used in an advanced search together with the metadata field (see Figure 13).

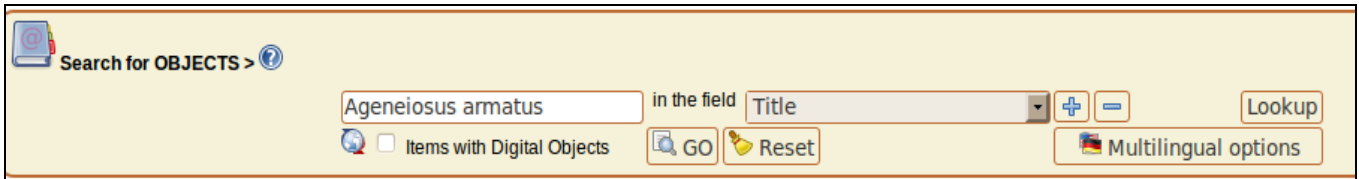


Figure 13 Search query after clicking on the magnifier beside "Title"

When selecting the "Info" tab the following information is shown (see Figure 14).

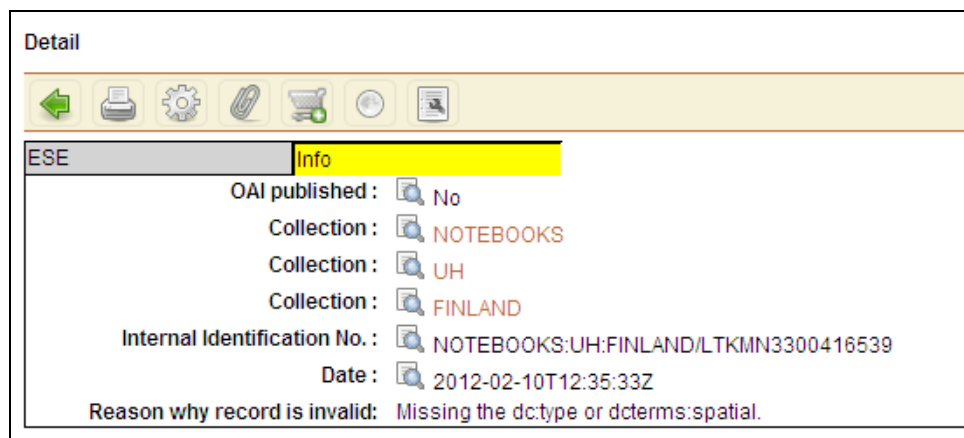


Figure 14 "Info" section for one record

The information is mostly about the collection.

On the bottom of the window you can see possible errors or mistakes of the records in "Reason why record is invalid" (for example "Missing license URI for rights", compare Figure 14).

At the top you have again symbols (see Figure 15).



Figure 15 Possibilities when showing a record in detail

Some of them you already know (like the trolley, the paper-clip and the printer). The green arrow is a link to go back. With the moon/sun symbol (the second of right) you can switch the highlighting of search terms. With a click on the moon symbol the terms are no longer highlighted (see Figure 16). When you want to highlight again then click on the sun.

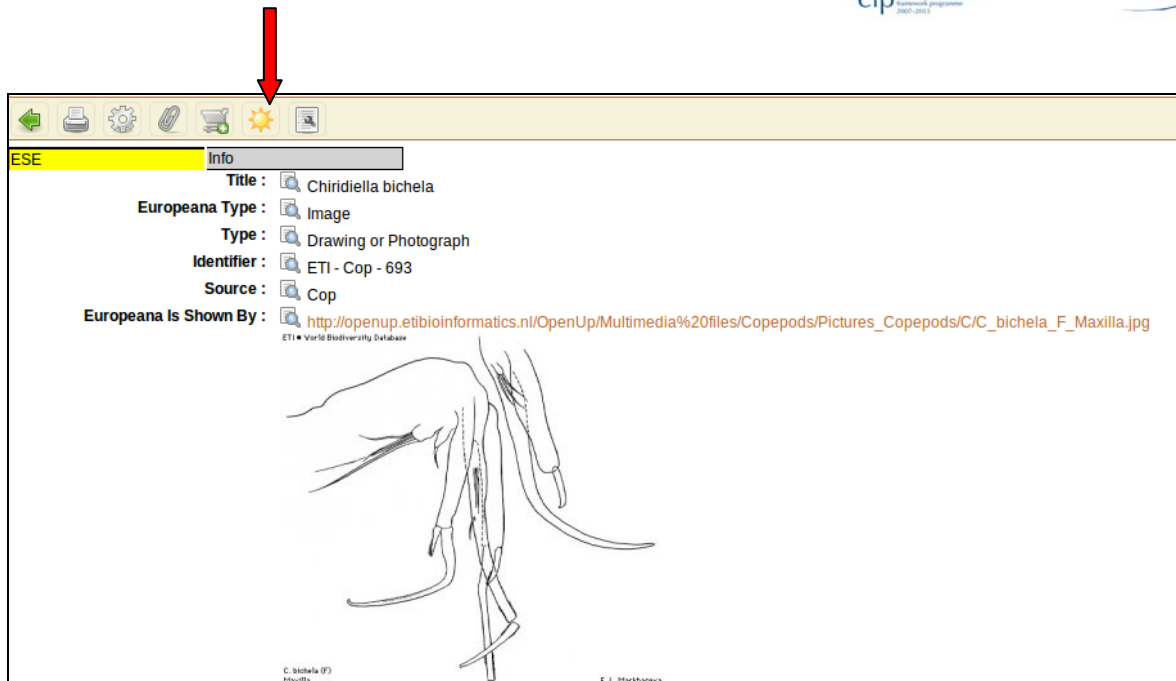


Figure 16 To activate the highlighting of search terms click on the sun

Right beneath the moon or sun symbol there is a paper with a tool (screwdriver) on it (the last one the right). When you click on that symbol the raw XML data in ABCD format is shown (see Figure 17).

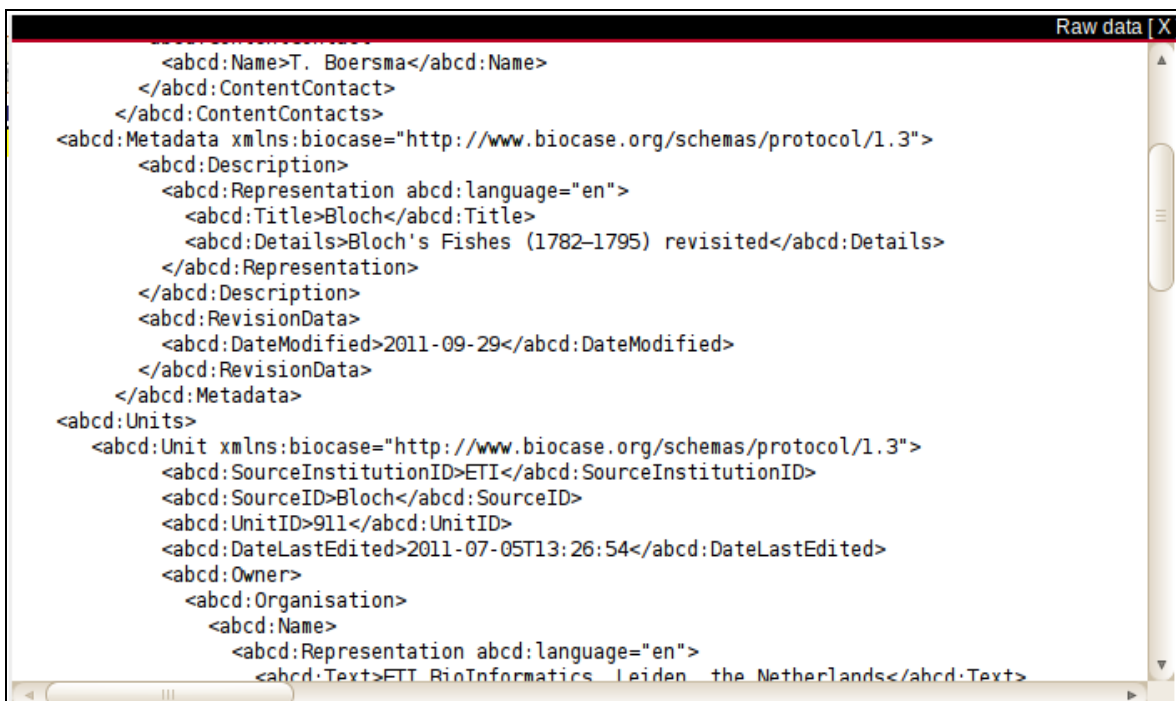


Figure 17 The ABCD "raw data" of a record

Here you can see the original ABCD unit metadata and you can use this window for checking the mapping to the ESE format.

You can close the window with the ABCD record by clicking on the X in the upper right corner.

Another symbol to have a look on the XML data is the cog wheel (the third from the left). This time the XML document is shown in the transformed ESE format and opened in a browser window (see Figure 18).

```

Mit dieser XML-Datei sind anscheinend keine Style-Informationen verknüpft. Nachfolgend wird die Baum-Ansicht des Dokuments angezeigt.

--<regnet-document version="1.0">
--<section name="ESE">
  <dc-Title>Ageneiosus armatus</dc-Title>
  <dc-Type>Drawing or Photograph</dc-Type>
  <europeana-DataProvider>ETI BioInformatics, Leiden, the Netherlands</europeana-DataProvider>
  <europeana-Type>IMAGE</europeana-Type>
  --<europeana-IsShownBy>
    http://openup.etbioinformatics.nl/OpenUp/Multimedia%20files/Digital%20books/Blochs%20Fishes/Bloch%20IL/Consumenten_CD_JPG/IMG0362.jpg
  </europeana-IsShownBy>
  --<europeana-Object>
    http://openup.etbioinformatics.nl/OpenUp/Multimedia%20files/Digital%20books/Blochs%20Fishes/Bloch%20IL/Consumenten_CD_JPG/IMG0362.jpg
  </europeana-Object>
  <europeana-Rights>http://www.europeana.eu/rights/rr-f</europeana-Rights>
  <dc-Identifier>ETI - Bloch - 911</dc-Identifier>
  <dc-Rights>ETI /ZMA /Artis Library, University of Amsterdam</dc-Rights>
  --<dc-Rights>
    The metadata for these images are provided in accordance with the GNU Free Documentation License (GFDL). The copyright of this metadata belongs to ETI BioInformatics (Leiden, the Netherlands)
    Please note this only applies to the metadata, the copyright of the images remains with their respective owners.
  </dc-Rights>
  <dc-Source>Bloch</dc-Source>
</section>
--<section name="oaiInfo">
  <oai-Archive>BLOCH</oai-Archive>
  <oai-Set>BLOCH</oai-Set>
  <oai-Set>ETI</oai-Set>
  <oai-Set>NETHERLANDS</oai-Set>
  <oai-InternalId>BLOCHETI:NETHERLANDS/ETIBLOCH911</oai-InternalId>
  <oai-DateStamp>2012-02-07T17:58:16Z</oai-DateStamp>
  <oai-Published>Yes</oai-Published>
</section>
</regnet-document>

```

Figure 18 The ESE record opened in a browser

2.3 Lookup

During the “Advanced Search” you have the possibility to look up terms by clicking on “Lookup” (see Figure 19).



Figure 19 The Lookup function

When you click on “Lookup” a window with all “looked up” values for the pre-selected metadata field appears (see Figure 20).

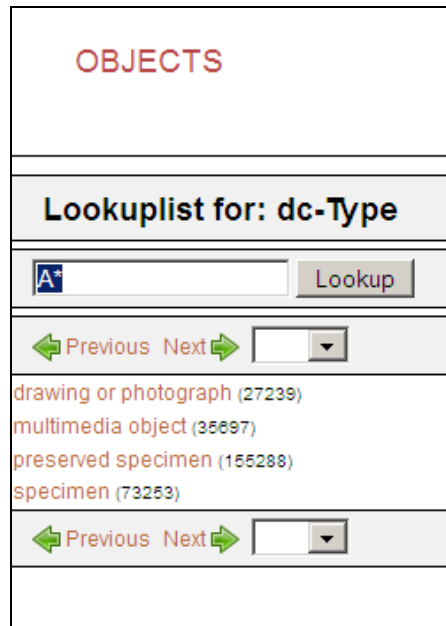


Figure 20 The Lookuplist for the Dublin Core Type

When you select “multimedia object”, for example, the term appears in the search field (see Figure 21).



Figure 21 Search box after clicking on “multimedia object” in the Lookup window

2.4 Browse

Another possibility in the OAI-Provider is the “Browse” function. When clicking on “Browse” at the top right corner the following window appears (see Figure 22).

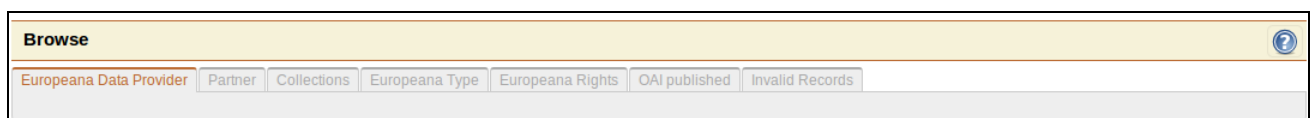


Figure 22 Result for Browsing by Partner

As you can see you can browse by “Europeana Data Provider”, “Partner”, “Collections”, “Europeana Type”, “Europeana Rights”, “OAI published” and “Invalid Records”. The number in brackets again gives the amount of records for each browsing category (see Figure 23).

Browse

Europeana Data Provider | Partner | Collections | Europeana Type | Europeana Rights | OAI published | Invalid Records

- [Biologiezentrum Der Oberoesterreichischen Landesmuseen \(73253\)](#)
- [Botanic Garden And Botanical Museum Berlin-Dahlem \(142101\)](#)
- [ETI Bioinformatics, Leiden, The Netherlands \(27226\)](#)
- [Finnish Museum Of Natural History \(3157\)](#)
- [Natural History Museum, Vienna - Herbarium W \(26311\)](#)
- [University Of Vienna, Institute For Botany - Herbarium WU \(19416\)](#)

Figure 23 Browsing result with number of records in brackets

When you click on a partner name all records (from all collections) of this partner are listed in the result list. When you click on a partner, for example “BLOCH”, Figure 24 shows the result.

Search for OBJECTS >

BLOCH in the field Archive

Items with Digital Objects GO Reset Multilingual options

1090 items found The query was Archive:(BLOCH) IN (ENG) Search result list (grid)

Items 1 to 10 #1 [1] 10

#	Sel.	Collection Data Provider	Type	ID	Title Contributor, Date	Resource
1.	<input type="checkbox"/>	BLOCH ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 911	Ageneiosus armatus	
2.	<input type="checkbox"/>	BLOCH ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 955	Corydoras punctatus	
3.	<input type="checkbox"/>	BLOCH ETI Bioinformatics, Leiden, the Netherlands		ETI - Bloch - 907	Lonchurus barbatus	

Figure 24 Result after browsing for the partner “BLOCH”

3 LIST OF REFERENCES

This document is based on the production version 1 of the *OpenUp! OAI-PMH Platform at the test server* on 16 Feb. 2012. This server was taken down and the production system is now available at <http://web-openup.nhm.ac.uk/oai-provider/index.php>

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