Be.DiSSCo-FED

Specialisation tool data collection and dashboard & Collection Registry hierarchy and Belgian collections, Compatibility, IIIF standard and other types of files

Patrick Semal

Scientific Service of Heritage, RBINS

___ Be.DiSSCo-FED Final Event
10/06/26 - RBINS

POLICY FORUM | NATURAL HISTORY

A global approach for natural history museum collections

Integration of the world's natural history collections can provide a resource for decision-makers

KIRK R. JOHNSON , IAN F. P. OWENS, AND THE GLOBAL COLLECTION GROUP Authors Info & Affiliations

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17,297 2 CHECK ACCESS

Abstract

Over the past three centuries, people have collected objects and specimens and placed them in natural history museums throughout the world. Taken as a whole, this global collection is the physical basis for our understanding of the natural world and our place in it, an unparalleled source of information that is directly rel-

CURRENT ISSUE



OWC (One World Collection) evaluation

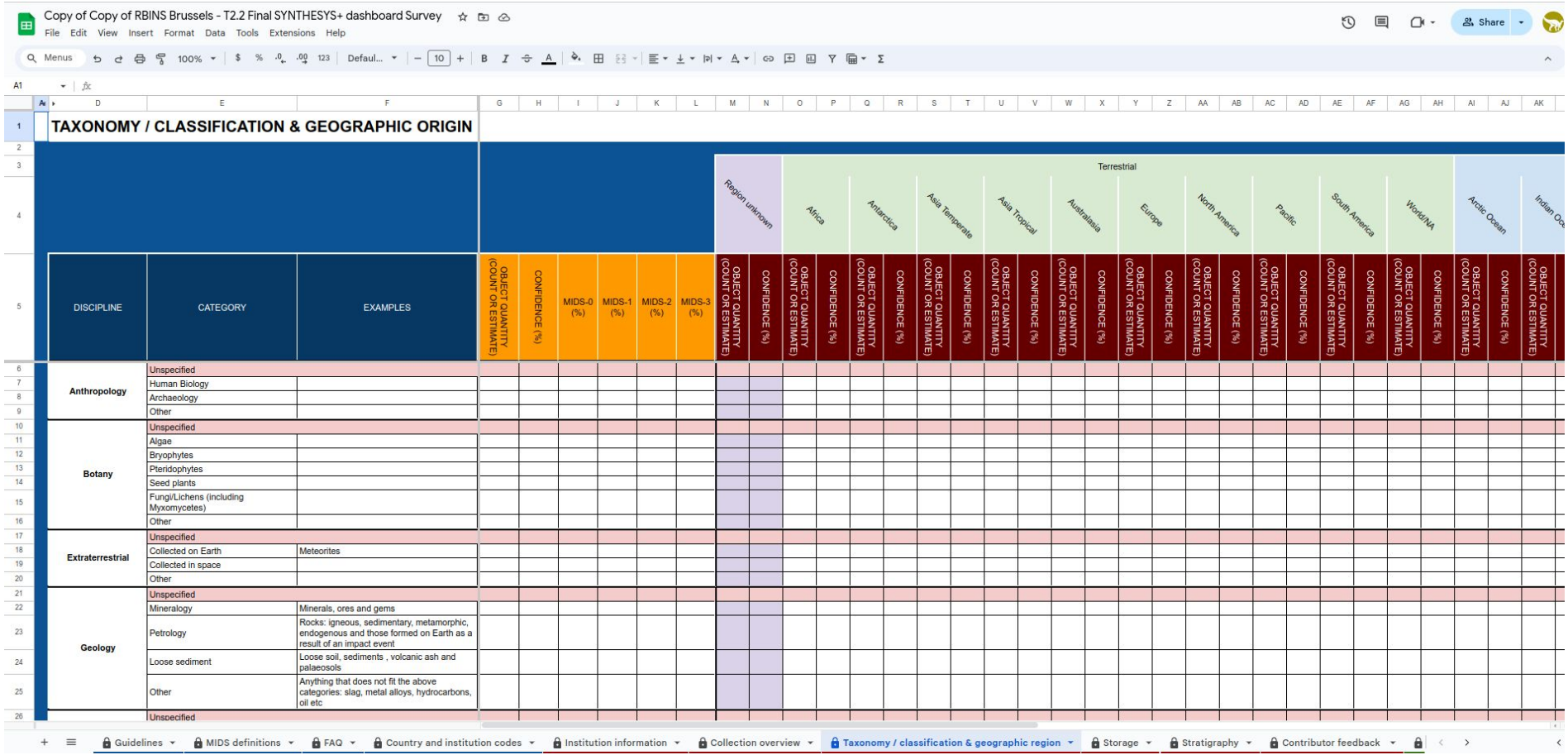
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1	2	3	4	5	6	7	8
○	○	○	○	○	○	○	○

148	AM	Invertebrate Zoology	IZ | MOLLUSCS	Marine	North Atlantic	4
149	AM	Invertebrate Zoology	IZ | MOLLUSCS	Marine	North Pacific	5
150	AM	Invertebrate Zoology	IZ | MOLLUSCS	Marine	South Atlantic	3
151	AM	Invertebrate Zoology	IZ | MOLLUSCS	Marine	South Pacific	5
152	AM	Invertebrate Zoology	IZ | MOLLUSCS	Marine	Southern	3
153	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Africa	4
154	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Antarctic	2
155	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Asia Temperate	4
156	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Asia Tropical	4
157	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Australasia	7
158	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Europe	4
159	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	North America	4
160	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	Pacific	5
161	AM	Invertebrate Zoology	IZ | MOLLUSCS	Terrestrial	South America	3
162	AM	Invertebrate Zoology	IZ | OTHER	Marine	Arctic Marine	2
163	AM	Invertebrate Zoology	IZ | OTHER	Marine	Indian	5
164	AM	Invertebrate Zoology	IZ | OTHER	Marine	North Atlantic	4
165	AM	Invertebrate Zoology	IZ | OTHER	Marine	North Pacific	4
166	AM	Invertebrate Zoology	IZ | OTHER	Marine	South Atlantic	3
167	AM	Invertebrate Zoology	IZ | OTHER	Marine	South Pacific	5
168	AM	Invertebrate Zoology	IZ | OTHER	Marine	Southern	4
169	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Africa	3
170	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Antarctic	3
171	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Asia Temperate	3
172	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Asia Tropical	4
173	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Australasia	7
174	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Europe	3
175	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	North America	4
176	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	Pacific	4
177	AM	Invertebrate Zoology	IZ | OTHER	Terrestrial	South America	3
178	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	Arctic Marine	0
179	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	Indian	0
180	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	North Atlantic	0
181	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	North Pacific	0
182	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	South Atlantic	0
183	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	South Pacific	0
184	AM	Paleobiology	INVERT PALEONTOLOGY	Marine	Southern	0

Synthesys+ T2.2: Collections Dashboard Survey

SYNTHESYS+ Synthesis of Systematic Resources a DiSSCo project





CETAF/DiSSCo specialisation

by marsadmin — last modified Mar 12, 2024 11:50 AM

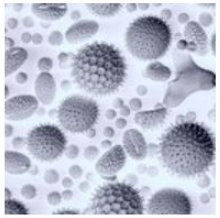
Choose one of the topic to access the menu



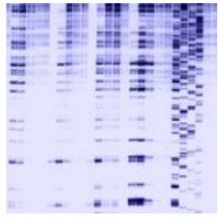
Institution



Collections



Research



Expertise



Trainings



Museum



Facilities



Natural History Museum

Institution code | NHMUK

Natural History Museum, London

www.nhm.ac.uk | United Kingdom › South Kensington | 80,000,000 specimens

Edit

About | 1 collection | Specimens

Herbarium - The Natural History Museum

Code: BM

Metadata | 5,200,000 records

1,108,755 specimens in GBIF

Add collection

We see these unknown collection codes being used in published data

bmnh(e) • zoo • pal • nhm • en • the natural history museum, london • queensland historical fauna database • insects • british antarctic survey expedition jr17003a • type



Crustacea - Amphipoda collection

Code: CRUS.A

245 specimens in GBIF

Crustacea - Isopoda

Code: CRUS.I

Metadata 0 records

173 specimens in GBIF

Crustacea - Ostracoda collection

Code: CRUS.B

Metadata 0 records

83 specimens in GBIF

Crustacea - Mysidacea collection

Code: CRUS.E

Metadata 0 records

47 specimens in GBIF

Crustacea - Copepoda collection

Code: CRUS.F

Metadata 0 records

41 specimens in GBIF

MUSÉUM NAL HIST NATURELLE

Institution code | MNHN

MNHN - Museum national d'Histoire naturelle

www.mnhn.fr | France › Paris | 67,000,000 specimens

About | 27 collections | Specimens

The fossil collection (F) of the Muséum national d'Histoire naturelle (MNHN - Paris)

Code: F

Metadata | 0 records

This database PALAEO concerns the fossil collections of the Muséum national d'Histoire naturelle of Paris. It comprises information on all groups of animals, plants and microfossils, and on several preparations for anatomy / histology studies, and includes also ichnology records. These historical co...

403,683 specimens in GBIF

The molluscs collection (IM) of the Muséum national d'Histoire naturelle (MNHN - Paris)

Code: IM

Metadata | 0 records

The collection of marine, terrestrial and freshwater molluscs is primarily a scientific but also ahistorical and museological collection. It includes about 800 000 lots, totaling approximately 5 million specimensfrom around the world. These specimens are preserved as either dry collection (dried ani...

291,610 specimens in GBIF

The reptiles and amphibians collection (RA) of the Muséum national d'Histoire Naturelle (MNHN - Paris)

Code: RA

Metadata | 0 records

The collection of Reptiles and Amphibians of the Muséum National d'Histoire Naturelle started in the early 19th century and has handwritten catalogues that date from 1864. The records in the Reptile and Amphiphibian database were transcribed from these catalogues. Most entries have not yet been chec...

204,273 specimens in GBIF

Institution



BE-RBINS

Main Disciplines

BE-RBINS-ANT



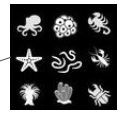
BE-RBINS-INV



BE-RBINS-INV



BE-RBINS-INV



BE-RBINS-AFP



natural sciences .be



BE-RBINS-ECO



BE-RBINS-VER



BE-RBINS-GEO



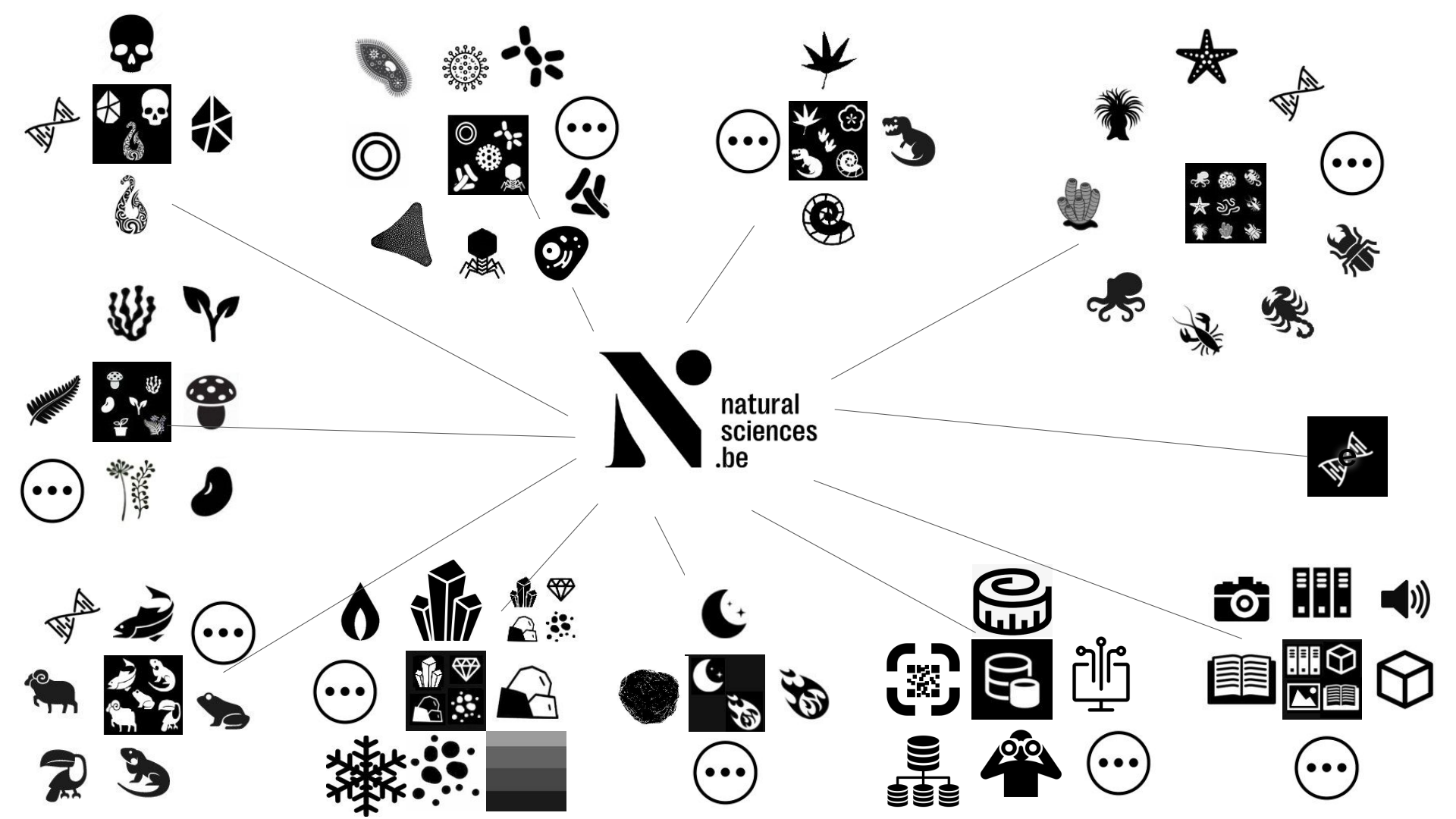
BE-RBINS-AST



BE-RBINS-DAT



BE-RBINS-HER


natural
sciences
.be

11 disciplines & 66 sub disciplines aligned with DiSSCo

AFP Algae, Fungi, Plants (Old botany) *
Specify which sub-disciplines are represented in the collection

- [x] No Collection
- [ ] AFP-ALG Algae
- [ ] AFP-FUN Macrofungi, Lichens & Myxomycetes (Mycology)
- [ ] AFP-BRY Bryophytes
- [ ] AFP-PTE Pteridophytes
- [ ] AFP-SEE Seed plants
- [ ] AFP-PGR Plant Genetic Resources
- [ ] AFP-OTH Other botany objects (e.g. mixed objects, Lycopodiophyta (clubmosses) and Equisetophyta (horsetails)

INV Invertebrates Zoology *
Specify which sub-disciplines are represented in the collection

- [ ] No Collection
- [x] INV-INS Insects
- [x] INV-ARA Arachnids
- [x] INV-CRU Crustaceans & Myriapods
- [ ] INV-MOL Mollusca (bivalves, gastropods, cephalopods)
- [ ] INV-POR Porifera (Sponges)
- [ ] INV-CNI Cnidaria (jellyfish, coral, anemones)
- [ ] INV-ECH Echinodermata (starfish, sea urchins, sea cucumbers)
- [ ] INV-IGR Invertebrates Genetic Resources
- [ ] INV-OTH Other zoology objects (e.g. mixed objects, Nematoda (roundworms), Platyhelminthes (flatworms), Annelida (segmented worms), Ctenophora (comb jellies), Brachiopoda (lamp shells), Bryozoa (moss animals), Chaetognatha (arrow worms), Hemichordata (acorn worms), Xenacoelomorpha (simple-bodied worms)

VER Vertebrates Zoology *
Specify which sub-disciplines are represented in the collection

- [ ] No Collection
- [x] VER-FIS Fishes
- [x] VER-AMP Amphibians
- [x] VER-REP Reptiles
- [x] VER-BIR Birds
- [x] VER-MAM Mammals
- [ ] VER-VGR Vertebrates Genetic Resources
- [ ] VER-OTH Other groups

PAL Palaeontology *
Specify which sub-disciplines are represented in the collection

- [ ] No Collection
- [x] PAL-AFP Plants & Fungi
- [x] PAL-INV Fossil Invertebrates
- [x] PAL-VER Fossil Vertebrates
- [x] PAL-OTH Other palaeontology objects (e.g. mixed or other kinds of fossils, microfossils, traces))

ANT Anthropology *
Specify which sub-disciplines are represented in the collection

- [x] No Collection
- [ ] ANT-BIO Biological Anthropology
- [ ] ANT-ARC Archeology (artifacts, human evolution, archeozoology & archeobotany)
- [ ] ANT-AGR Anthropological Genetic Ressource
- [x] ANT-OTH Other category

GEO Geology *
Specify which sub-disciplines are represented in the collection

- [x] No Collection
- [ ] GEO-MIN Mineralogy and Gems (cut and polished precious mineral) (Mineralogy)
- [ ] GEO-PET Rocks (made up of multiple minerals) (Petrology)
- [ ] GEO-SED Loose sediment sample (sediment or particulate)
- [ ] GEO-MSS Mixed solid matter sample (e.g. soil, cutting from a borehole)
- [ ] GEO-ICE Water-ice sample
- [ ] GEO-LGS Liquid or gaseous matter sample
- [ ] GEO-OTH Other category

EXT Extraterrestrial (Astrogeology) *
Specify which sub-disciplines are represented in the collection

- [x] No Collection
- [ ] EXT-SPA Sample returns (objects originated from beyond the planet and carried to earth)
- [ ] EXT-MET Terrestrial finds/falls (e.g. meteorites)
- [ ] EXT-TEC Terrestrial impacta
- [ ] EXT-OTH Other category

MIC Microbiology *
Specify which sub-disciplines are represented in the collection

- [x] No Collection
- [ ] MIC-PHA Phages
- [ ] MIC-BAC Bacteria & archea
- [ ] MIC-PLA Plasmids
- [ ] MIC-PRO Protozoa
- [ ] MIC-EUK Eukaryotic microorganisms
- [ ] MIC-VIR Viruses
- [ ] MIC-YEA Microfungi (including moulds, yeasts)
- [ ] MIC-ALG Algae (in microbiology collection)
- [ ] MIC-OTH Other microbiology objects (e.g. mixed or other kinds of microorganisms)

ECO Environmental DNA *
Nuclear or mitochondrial DNA that is released from an organism into the environment

- [x] No Collection
- [ ] ECO-DNA (environmental DNA)
- [ ] ECO-OTH

HER Heritage (Supporting material) *
Specify which supporting material are represented in the collection

- [ ] No Collection
- [x] HER-LIB Library
- [x] HER-DOC Documentation
- [x] HER-PIC Pictures
- [x] HER-SOU Sounds
- [x] HER-MOD Models
- [ ] HER-OTH Other category

DAT Data *
Specify which sub-disciplines are represented in the collection

- [ ] No Collection
- [x] DAT-MEA Measures
- [x] DAT-OBS Observations
- [x] DAT-DIB Digital Born
- [x] DAT-DIG Digitisation
- [x] DAT-MET Metadata
- [ ] DAT-OTH Other category

MIX Mixed Collections *
Specify if you have mixed collections not arranged by discipline but by collector (e.g. Darwin)

- [x] No Collection
- [x] MIX

UNC Unclassified *
Specify if no discipline is defined

- [x] No Collection
- [ ] UNC in case you don't have discipline

Insects

Code: INV-INS

Insects represent the majority of the RBINS Entomological collection, i.e. the institute's largest collection containing more than 20 million specimens known orders and contain more than 10,000 type specimens.They have been collected since the 19th century, both in Belgium and...

55,903 specimens in GBIF

Molluscs

Code: INV-MOL

Metadata

10,000,000 records

Within the RBINS collection of Belgian Recent Invertebrates, most of the approximately 15 million specimens are molluscs. A large proportion of this material comes from former RBINS director Gustave Gilson, who was one of the first Belgian oceanographers. He systematically sampled the North Sea betw...

179,610 specimens in GBIF

Paleontology

Code: PAL

Metadata

4,505,000 records

The RBINS palaeontological collections are incredibly rich and diverse, and with the Bernissart Iguanodons, have world stars in their ranks. They currently contain more than 3 million fossils of vertebrates, invertebrates and plants, including around 46,000 type and figured specimens.. Fossil verteb...

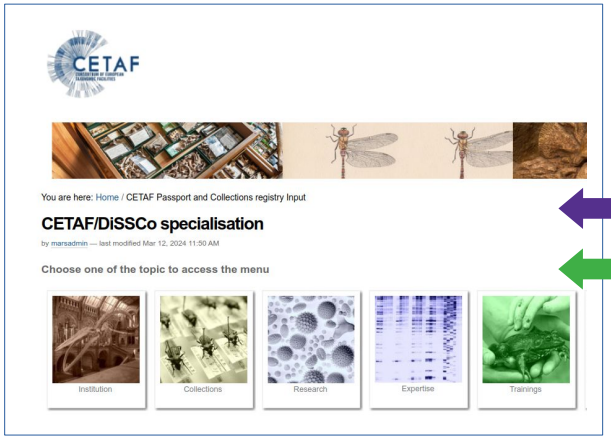
Anthropology

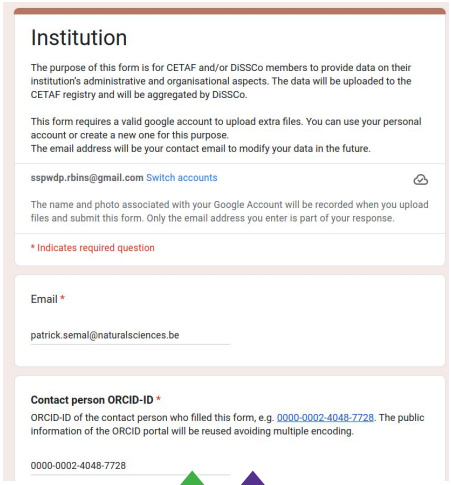
Code: ANT-BIO

Metadata

3,000,000 records

Human biology includes human evolution.





Google Forms and XLS files

Elastic Search Index

elasticsearch

DiSSCo

Distributed System of Scientific Collections

ELViS

CETAF

CONSORTIUM OF EUROPEAN TAXONOMIC FACILITIES

Project Report
Research Ideas and Outcomes 10: e118244
https://doi.org/10.3897/rio.10.e118244 (29 Feb 2024)
Reviewable v1

Related articles by TRENDMD

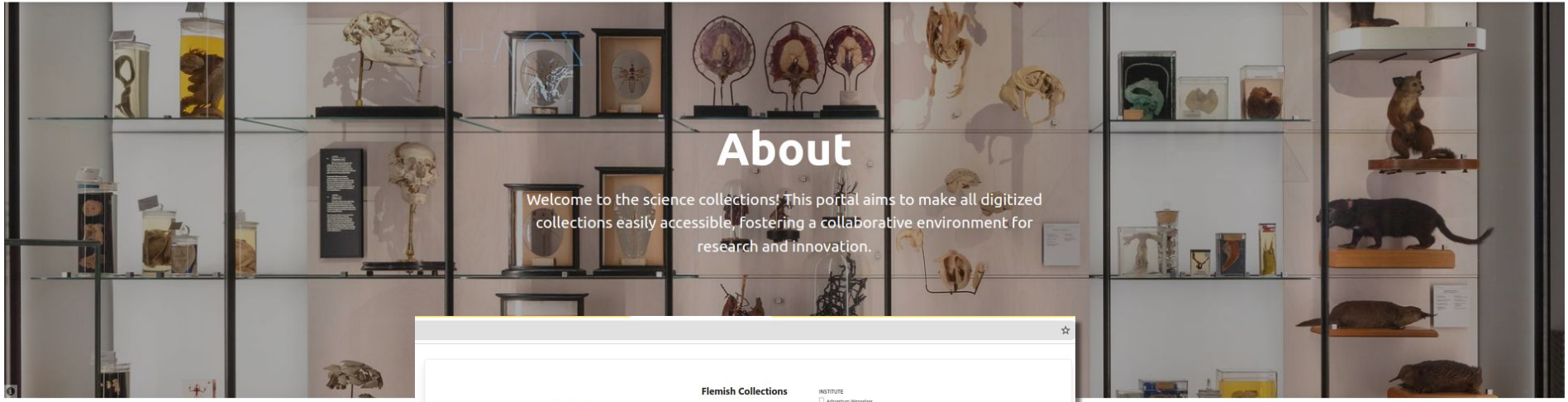
Systematic Design of a Natural Sciences Collections Digitisation Dashboard

Laura J. Tilley, Matt Woodburn, Sarah Vincent, Ana Casino, Wouter Addink, Bogaerts, Sofie De Smedt, Lisa French, Sharif Islam, Patricia Mergen, Anne Mareike Petersen, Celia Santos, Edmund K. Schiller, Patrick Semal, Vincent S. S

Abstract

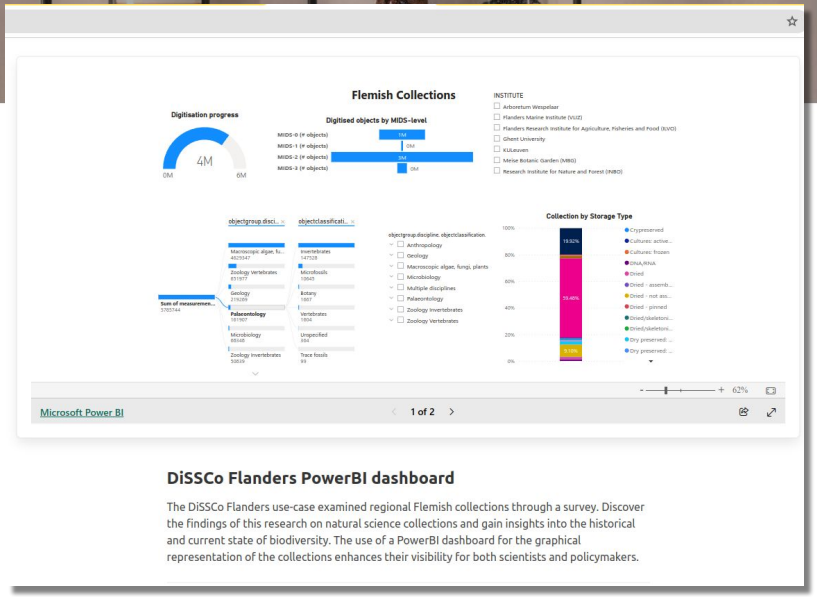
This paper describes the design and build of a pilot Natural Sciences Co Dashboard (CDD). The CDD will become a key service for the Distributed Collections Research Infrastructure (DiSSCo) and aims to improve the disc science collections (NSCs) held in European institutions, both digitise Furthermore, it will serve as a dynamic visual assessment tool for strate including the prioritisation of digitisation. The CDD pilot includes high-level in European NSCs, covering the number of objects, taxonomic scope, storage typ (Earth Science Collections), geographical region and level of detail in digitisati is structured through a standardised Collection Classification Scheme, wh categorisation to describe physical natural science collections.





About

Welcome to the science collections! This portal aims to make all digitized collections easily accessible, fostering a collaborative environment for research and innovation.



DiSSCo Flanders PowerBI dashboard

The DiSSCo Flanders use-case examined regional Flemish collections through a survey. Discover the findings of this research on natural science collections and gain insights into the historical and current state of biodiversity. The use of a PowerBI dashboard for the graphical representation of the collections enhances their visibility for both scientists and policymakers.

Collections Overview

This form is for describing your collection generally (Qualitatively and Quantitatively). To provide more specific qualitative and quantitative data about discipline and sub-discipline, please fill in the relevant forms accessible through the Disciplines menu.

Purpose of form:
The purpose of this survey is to obtain high level information on Natural Science Collections (NSCs) held in European institutions, for publication to the CETAF Registry Collections Platform and from there be aggregated by the DiSSCo RI and other Platforms.

More specifically, the data will feed key DiSSCo serves and tools such a Collections Digitisation Dashboard; the ELViS platform. The survey is based on a classification scheme that has been developed to allow NSCs to be described in a standardised way thus increasing data mobilisation and usability. The provision of this data to these tools and services will improve the discoverability of European NSCs, and facilitate decision making for different stakeholders on a governmental, institutional and research level.

G-MAIL
This form requires a valid google account to upload extra files. You can use your personal account or create a new one for this purpose.

The email address will be your contact email to modify your data in the future.

Form Saving: The form will automatically save the data you input, if you are connected online. **WARNING:** The draft form (not yet submitted) will only be saved for 1 month after starting.

patrick.semal@gmail.com Switch accounts

The name, email address and photo associated with your Google Account will be recorded when you upload files and submit this form

* Indicates required question

Email *

Your email address

Contact person ORCID-ID for this form *

ORCID-ID of the contact person who filled this form, e.g. 0000-0002-4048-7728. The public information of the ORCID portal will be reused avoiding multiple encoding.

Your answer

Collections overview



ROR ID of the Institution *

e.g. 02y22ws83 for RBINS (https://ror.org/02y22ws83). The ROR ID is mandatory as it will be used as institution Identifier in all other forms. See https://ror.org/ to obtain the ROR of your institution. If your institution does not have a ROR ID, write No in this field.

Your answer

List of Institutions *

Choose your institution.
If the institution is not in the list, select "Other" and fill in the information in the next field.

Choose

If Other

Compose the Institution ID as : ISO-Acronym "international name"

Your answer

Contact email for the collections

e.g. collections@naturalsciences.be

Your answer

ORCID-ID of the head of collections

ORCID-ID of the person in charge of the collection, e.g. 0000-0002-4048-7728. The public information of the ORCID portal will be reused avoiding multiple encoding.

Diversity of the collections



AFP Algae, Fungi, Plants (Old botany) *

Specify which sub-disciplines are represented in the collection

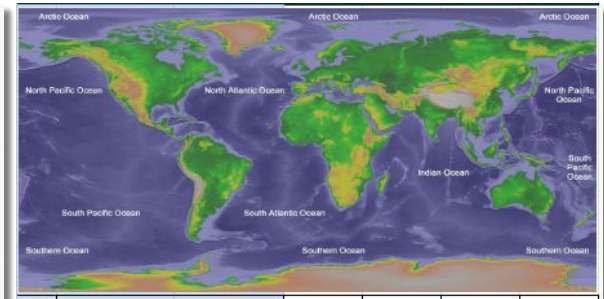
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- [ ] INV-ARA Arachnids
- [ ] INV-CRU Crustaceans & Myriapods
- [ ] INV-MOL Mollusca (bivalves, gastropods, cephalopods)
- [ ] INV-POR Porifera (Sponges)
- [ ] INV-CNI Cnidaria (jellyfish, coral, anemones)
- [ ] INV-ECH Echinodermata (starfish, sea urchins, sea cucumbers)
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GEOGRAPHIC ORIGIN		Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
Region Unknown	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
Africa	OBJECT QUANTITY				
	TERRESTRIAL OBJECT QUANTITY				
	FRESH WATER OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
Antarctica	OBJECT QUANTITY				
	TERRESTRIAL OBJECT QUANTITY				
	FRESH WATER OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
Asia Temperate	OBJECT QUANTITY				
	TERRESTRIAL OBJECT QUANTITY				
	FRESH WATER OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
Asia Tropical	OBJECT QUANTITY				
	TERRESTRIAL OBJECT QUANTITY				
	FRESH WATER OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
	OBJECT QUANTITY				
	TERRESTRIAL OBJECT QUANTITY				



Arctic Ocean	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
Indian Ocean	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
North Atlantic: unknown	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
North Atlantic: deep sea	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
North Atlantic: shelf area & adjacent seas	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
South Atlantic: unknown	OBJECT QUANTITY				
	CONFIDENCE (%)				
	MIDS-0 (%)				
	MIDS-1 (%)				
	MIDS-2 (%)				
	MIDS-3 (%)				
South Atlantic:	OBJECT QUANTITY				
	CONFIDENCE (%)				

	A	B	C	D	E
1	AFRICA	Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
2	DZ - Algeria				
3	AO - Angola				
4	SH - Ascension				
5	BJ - Benin				
6	BW - Botswana				
7	BF - Burkina Faso				
8	BI - Burundi				
9	CM - Cameroon				
10	CV - Cape Verde Islands				
11	CF - Central African Republic				
12	TD - Chad Republic				
13	KM - Comoros				
14	CG - Congo				
15	CD - Dem. Republic of the Congo				
16	DJ - Djibouti				
17	EG - Egypt				
18	GQ - Equatorial Guinea				
19	ER - Eritrea				
20	SZ - eSwatini				
21	ET - Ethiopia				
22	GA - Gabon Republic				
23	GM - Gambia				
24	GH - Ghana				
25	GN - Guinea				
26	GW - Guinea-Bissau				
27	CI - Ivory Coast				
28	KE - Kenya				
29	LS - Lesotho				
30	LR - Liberia				
31	LY - Libya				
32	MG - Madagascar				
33	MW - Malawi				
34	ML - Mali Republic				
35	MR - Mauritania				
36	MU - Mauritius				
37	YT - Mayotte Island				
38	MA - Morocco				
39	MZ - Mozambique				
40	NA - Namibia				
41	NE - Niger Republic				
42	NG - Nigeria				
43	ST - Principe				
44	RE - Reunion Island				
45	RW - Rwanda				

ND (Not defined)
Yes
No

STRATIGRAPHY					Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
EON	ERA	PERIOD	EPOCH					
Stratigraphy unspecified				OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
	Any Era			OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Any Period		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Quaternary	Any Epoch	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
			Holocene	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
			Pleistocene	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				

Phanerozoic		Paleogene	Oligocene	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
			Eocene	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
			Paleocene	OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
	Mesozoic	Any Period		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Cretaceous		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Jurassic		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Triassic		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
	Paleozoic	Any Period		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Permian		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Carboniferous		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Devonian		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				
				MIDS-1 (%)				
				MIDS-2 (%)				
				MIDS-3 (%)				
		Silurian		OBJECT QUANTITY				
				CONFIDENCE (%)				
				MIDS-0 (%)				

STORAGE			Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
Unspecified		OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Dried assembled	Not in fluid	OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Dried not assembled	Not in fluid, human remains bones, (not recent)	OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Fluid preserved		OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Microscope slides		OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Cryopreserved frozen - 80C		OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Artefacts climate controlled conditions	Air conditioning/climate controlled units/rooms	OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Artefacts non climate controlled conditions	Not air conditioned/climate controlled units/rooms can include mummies	OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				
Other	Anything that does not fit into the above	OBJECT QUANTITY				
		CONFIDENCE (%)				
		MIDS-0 (%)				
		MIDS-1 (%)				
		MIDS-2 (%)				
		MIDS-3 (%)				

SAMPLE TREATMENT		Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
Cryopreserved	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Dried	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Embedded	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Fluid preserved	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
In vivo	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
In vitro	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Pinned	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Pressed	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Skeletonized	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Pinned	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Pressed	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Skeletonized	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Tanned	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Wax Block	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				

Preparation mode		Anthropology unspecified (ANT)	Biological Anthropology (ANT-BIO)	Archaeology (ANT-ARC)	Anthropology Other (ANT-OTH)
Adpression / compression	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Body	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Cast	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Charcoalification	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Coalified	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Concretion	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Dissolution traces	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Mold / impression	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Permineralised	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Recrystallised	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Soft parts	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Trace	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				
Other	Yes / NO				
	OBJECT QUANTITY				
	CONFIDENCE (%)				

Form completion

IMPORTANT The form will automatically save the data you input, if you are connected online. **WARNING:** The draft form (not yet submitted) will only be saved for 1 month after starting.

When you select "*Form complete and XLS file uploaded*" This means that it is ready to be provided to the CETAF Registry Repository and aggregated.



Please indicate you form status: *

- [ ] Google Form and XLS sheet is still in draft.
- [ ] Form complete and XLS file uploaded.

ANT Collection Form (Responses)

File Edit View Insert Format Data Tools Extensions Help

Timestamp	Email address	Contact person ORCID	ROR ID of the Institutio	Select Institution Name	If Other	GBIF Registry of Scient	Contact email of the co	Abstract	Status	Legal property	ORCID-ID of the main p	Collection role	Status

General access

Anyone with the link

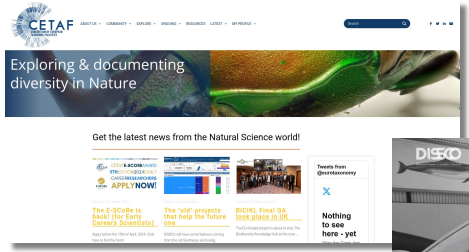
Anyone on the Internet with the link can view

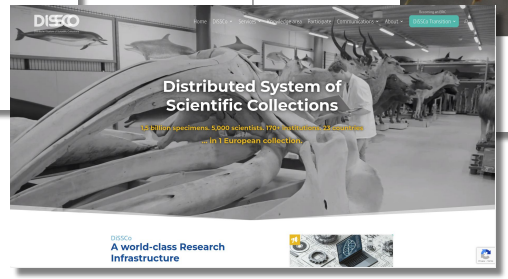
Viewer

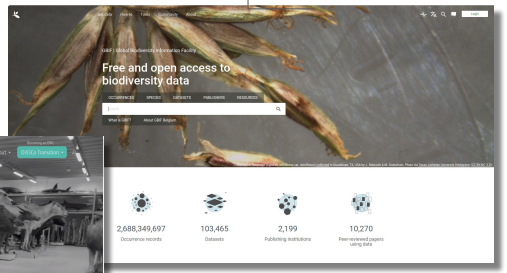
Copy link

Done

Aggregated in an Elastic Search Index









Google form & XLS

API JSON

DiSSCo
Distributed System of Scientific Collections





Sending of data

Mutual update

Elastic Search Index

elasticsearch

GBIF

IPT Latimer Core
and/or
JSON Latim Core



Prefilled generator
Results update



Prefilled Google form
via menu (Update)

Data to CETAF website

CETAF
CONSORTIUM OF EUROPEAN TAXONOMIC FACILITIES

Be.DiSSCo-FED

Specialisation tool data collection and dashboard & Collection Registry hierarchy and Belgian collections, Compatibility, IIIF standard and other types of files

Patrick Semal

Scientific Service of Heritage, RBINS

___ Be.DiSSCo-FED Final Event
10/06/26 - RBINS

Challenge: Databasing Entomological collections





Lepidoptera: Nymphalidae: Euphaedra spp.
Collection Jacques Hecq: 1491 records, 86 species, 123 (+60) type specimens ⇒ DaRWIN, VirtualCollections

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Koen Martens
D.R.C. 515 specimens collected before 1960
with 74 (+21) type specimens

Data count :

nb database records	nb physical specimens low	nb physical specimens high
215621	1447830	1451533

Categories of objects in collection:

category	nb database records	nb physical specimens low	nb physical specimens high
composite-storage-unit	1	89	89
container	2	51	51
figurate	1	12	12
physical	193961	1420488	1424191
TOTAL	**193965**		

Types count :

type	nb database records	nb physical specimens low	nb physical specimens high
allolectotype	1	1	1
alloreferent	3	3	3
allotype	663	670	670
allotype (in litt.)	1	1	1
co-type	22	28	28
cotype	47	74	74
ex-typis	160	302	302
genotype	2	2	2
halotype	13	13	13
holotype	2980	3016	3016
hypotype	6	6	6
lectoparatype	2	3	3
lectotype	412	427	427
locotype	5	5	5
metatype	2	2	2
neallotype	6	6	6
neotype	32	32	32
non-type	8	9	9
paralectotype	367	910	910
parallotype	5	5	5
paratype	22613	49912	50021
plastotype	1	1	1
plesiotype	21	57	57
syntype	1186	2346	2346
syntype + specimens	2	2	2
topotype	12	21	21
type	2687	2894	2894
type?	5	5	5
type (in litt.)	1	1	1
type in litt.	9	9	9
type in litteris	118	1758	1758
TOTAL	**31392**	**62521**	**62630**

DaRWiN

DISSCO

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17.000.000 specimens

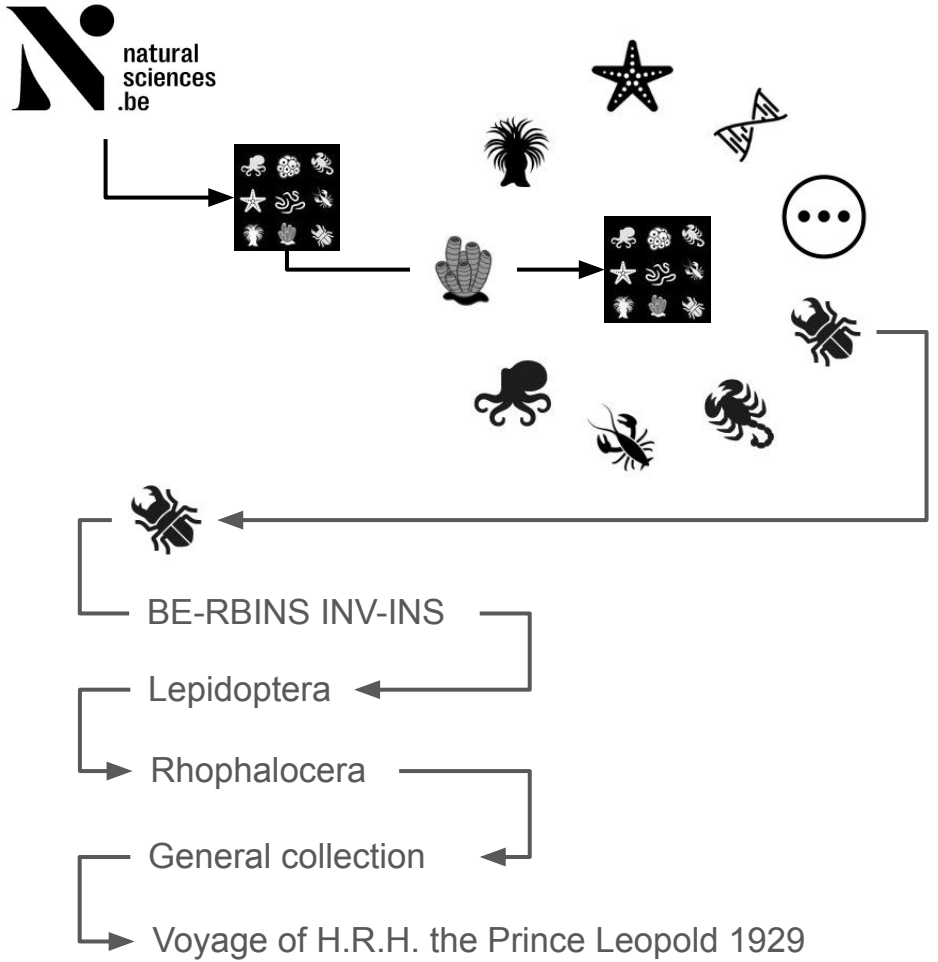
After 30 years !

1.424.191 Specimens encoded MIDS 1

Search collection : Filter Reinit

Royal Belgian Institute of Natural Sciences

- _tests_
- BE-RBINS Anthropology
- BE-RBINS Arthropoda (Entomology)
  - BE-RBINS Entomology Types on VC
  - BE-RBINS INV-ARA Arachnids
  - BE-RBINS INV-INS Insects
    - Coleoptera
    - Diptera
    - Hymenoptera
    - Lepidoptera
      - Heterocera
      - Rhopalocera
        - Belgian Rhopalocera Collection
          - General Rhopalocera Collection
            - Arsène Fouassin
              - Collection Voyage of H. R. H. the Prince Leopold (1929)
            - Collection Voyage of H. R. H. the Prince Leopold (1932)
            - H. M. King Leopold III
            - H. M. Queen Elisabeth (Brazilian Lepidoptera)
            - M.-E. de Selys-Longchamps
            - Ronald Brabant



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AFRICA museum

Hexapoda INSECTARIUM JEAN LECLERCQ

17.000.000 specimens

6.000.000 specimens

6.000.000 specimens

! Ordered by taxonomy, not by sampling location !

Manual Digitization = 10000 records / year / FTE

RBINS ⇒ 1700 FTE of encoding

AfricaMuseum ⇒ 600 FTE of encoding

Hexapoda ⇒ 600 FTE of encoding

SYNTHESYS+
Synthesis of Systematic Resources a DiSSCo project

Home | Bibliography Search | DIGIT-KEY | Sphaeroptica

You are here: Home / DIGIT-KEY

Key to identify the appropriate digitization technique and the accompanying workflow and data pipeline (D7.2.)

This form will guide you through the process of deciding which digitisation technique is the best suited to meet the request of the Digitisation on Demand (DoD). It can also be used to browse through the options of currently used digitisation techniques for Natural History Collections. At the moment two handbooks have been published regarding these digitisation techniques which provide more basic information:

- Keklikoglou, K., Faulwetter, S., Chatzinikolaou, E., Wils, P., Brecko, J., Kvaček, J., Metscher, B., & Arvanitidis, C. (2019). Micro-computed tomography for natural history specimens: a handbook of best practice protocols. European Journal of Taxonomy, (522). https://doi.org/10.5852/ejt.2019.522
- Brecko, J., & Mathys, A. (2020). Handbook of best practice and standards for 2D+ and 3D imaging of natural history collections. European Journal of Taxonomy, (623). https://doi.org/10.5852/ejt.2020.623

The collection or specimen has to be digitised in:

2D/2D+ Digitisation	3D Digitisation	Digitization Workflows
		**At this point it is more important to know the digitisation pipeline of a specimen independant of the used digitisation technique.**

European Journal of Taxonomy 976: 283–298
https://doi.org/10.5852/ejt.202.976.2797
ISSN 2118-9773
www.europeanjournaloftaxonomy.eu
2025 · Brecko J. *et al.*
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Collection management

urn:lsid:zoobank.org:pub:693B8C05-2296-476C-80DE-5B8C9D45F6D9

DIGIT-KEY: an aid towards uniform 2D+ and 3D digitisation techniques within natural history collections

Jonathan BRECKO[1,*], Aurore MATHYS[2], Eva CHATZINIKOLAOU[3], Kleoniki KEKLIKOGLOU[4], Jonathan BLETTERY[5], Laura GREEN[6], Alicia MUSSON[7], Alan PATON[8], Sarah PHILLIPS[9], Markus BASTIR[10], Karin WILTSCHKE[11], Heimo RAINER[12], Andreas KROH[13], Elspeth HASTON[14] & Patrick SEMAL[15]



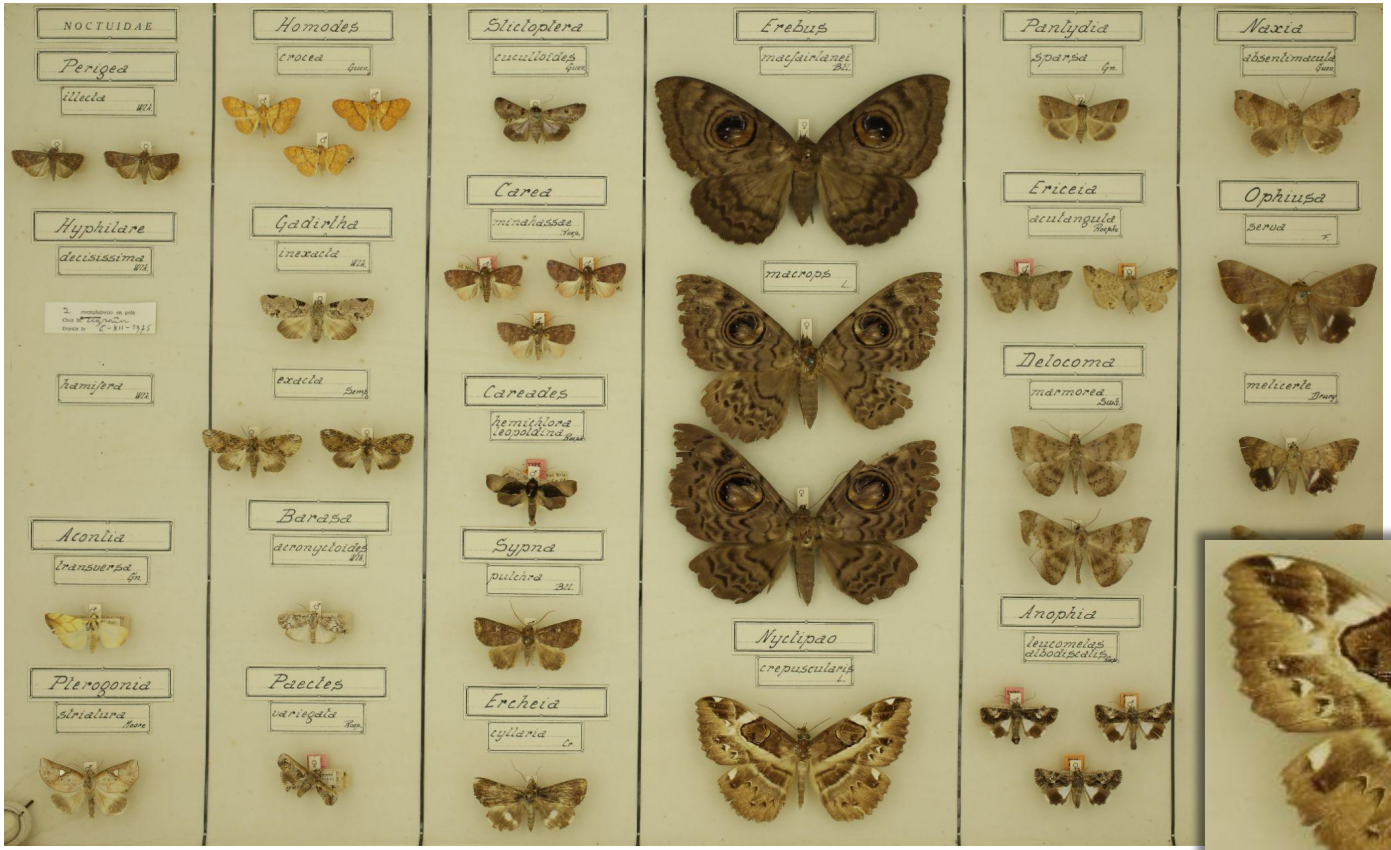


50 Mpx



Price
4000 €
500 €
1500 €

1. Digitization Box





50 Mpx



Collection, Codes, Names, Labels



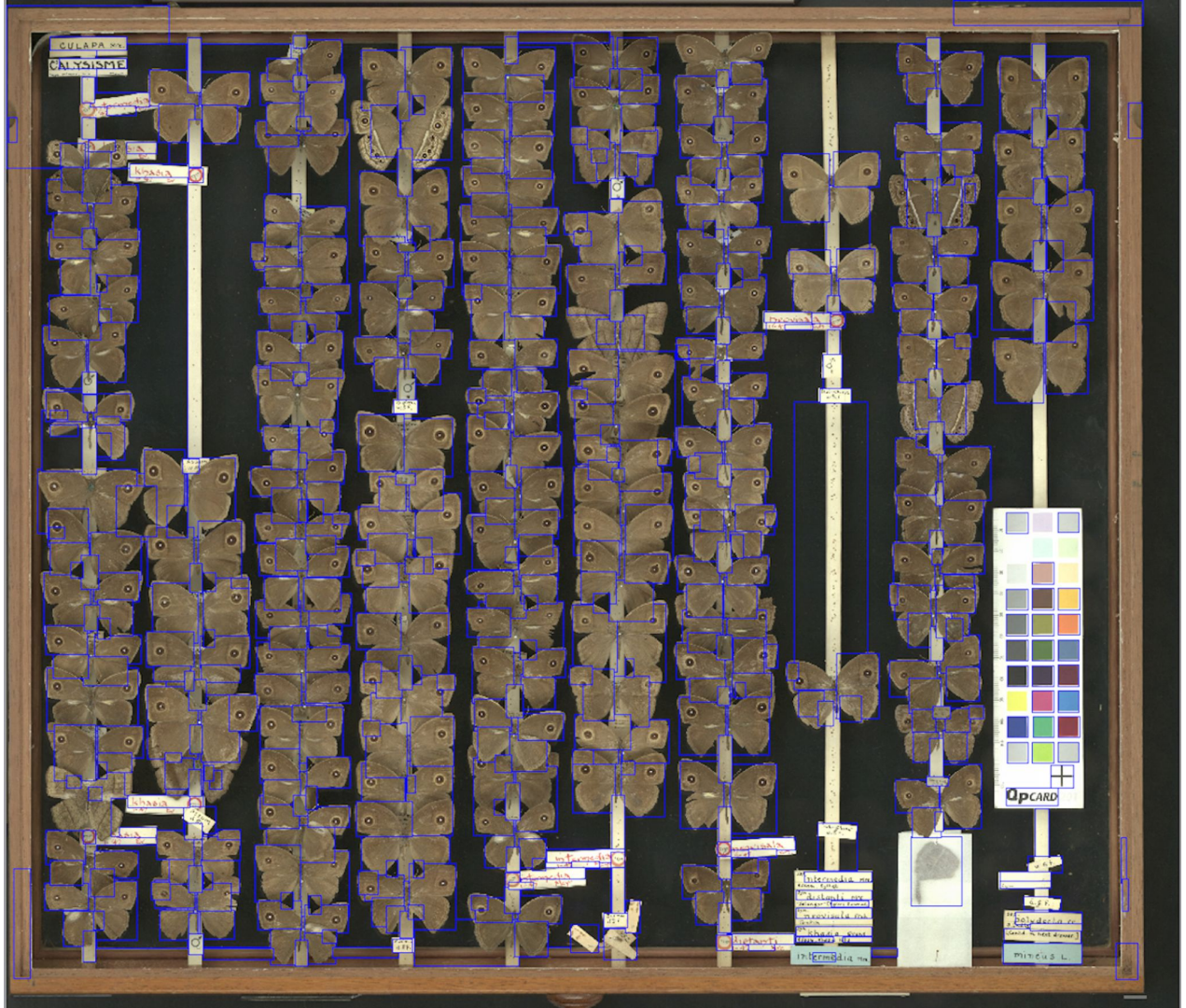
SYNTHESYS Project, which is financed by European Community Research Infrastructure Action under the FP7 Integrating Activities Programme (Grant agreement number 312253), and from the U.K. Natural Environment Research Council

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École polytechnique de Louvain

Analyse de boites entomologiques

Détection et classification d'insectes

Auteur: Gautier Black
Promoteurs: Axel Legay, Grégoire Noël
Lecteurs: Sébastien Jodogne, Benoît Duhoux
Année académique 2023–2024
Master [120] : ingénieur civil en informatique

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Gembloux
Agro-Bio Tech

2024

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2025

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École polytechnique de Louvain

Automatisation de la classification des spécimens d'insectes provenant de boîtes entomologiques de collections muséales

Auteur: Nicolas Delcommune
Promoteur: Sébastien Jodogne
Lecteurs: Edouard Chatzopoulos, Grégoire Noël
Année académique 2024–2025
Master [60] en sciences informatiques

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École polytechnique de Louvain

Object Detection with Scarce Data: Scans of Entomological Boxes using Active Learning

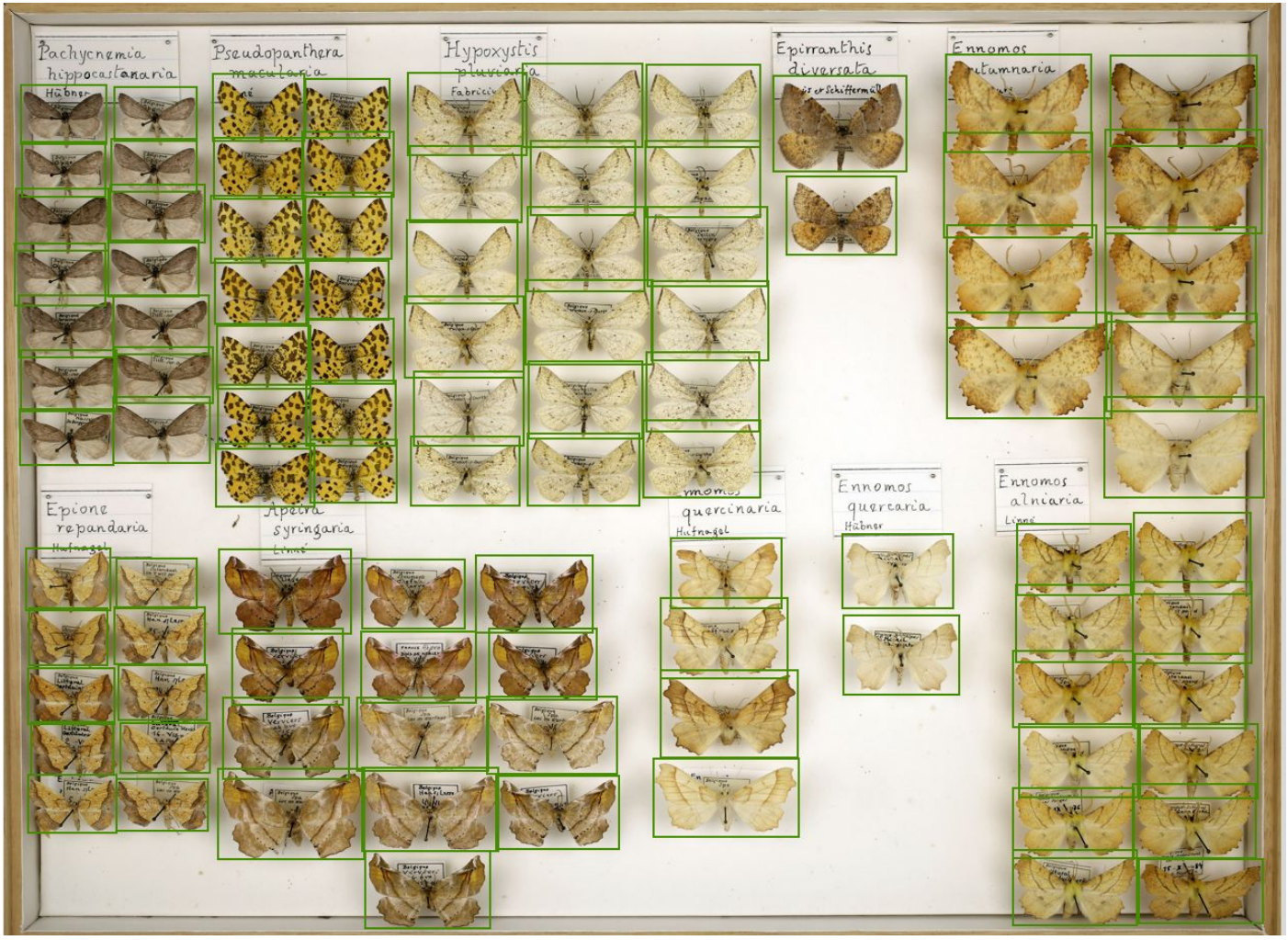
Authors: Tobias Löwenthal, Alexandr Usoltsev
Supervisor: Sébastien Jodogne
Readers: Edouard Chatzopoulos, Patrick Semal
Academic year 2024–2025
Master [120] in Computer Science and Engineering

open source initiative

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2025





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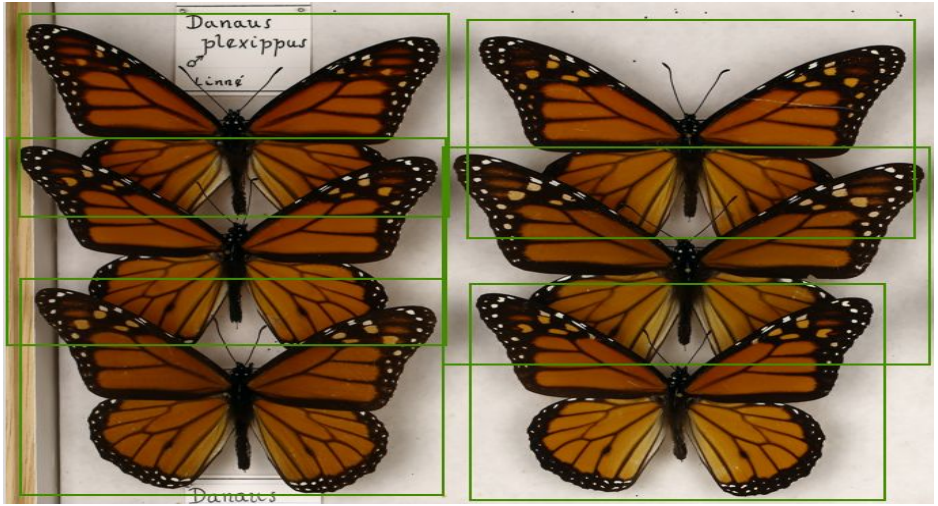
École polytechnique de Louvain

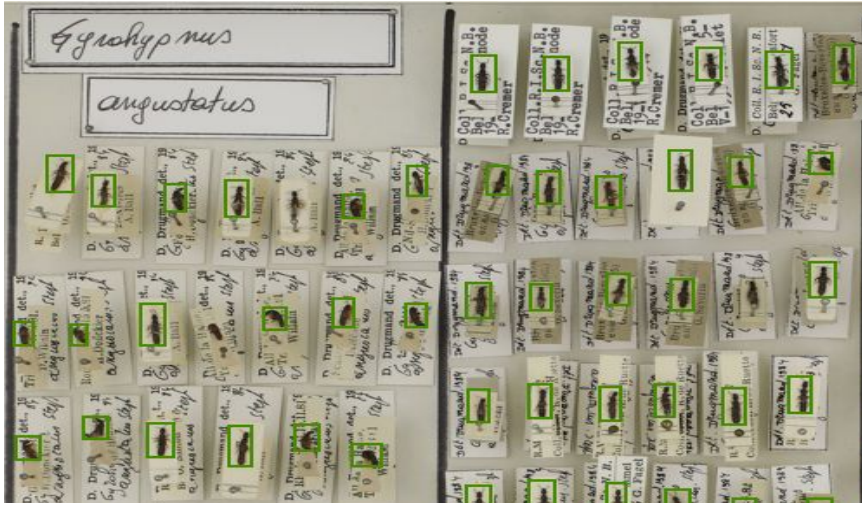
Object Detection with Scarce Data: Scans of Entomological Boxes using Active Learning

Authors: **Tobias Löwenthal, Alexandr Usoltsev**
Supervisor: **Sébastien Jodogne**
Readers: **Edouard Chatzopoulos, Patrick Semal**
Academic year 2024–2025
Master [120] in Computer Science and Engineering


Danaus
plexippus
Linné
Danaus


Gyrohypnus
angustatus


Danaus
plexippus
Linné
Danaus


Gyrohypnus
angustatus

1. Digitization Box



2. Import from templates

Collections
Codes
Names

DaRWiN
DISSCO

UUIDs

3. import boxes images

ORTHANC

URLs

4. AI



Related
Items

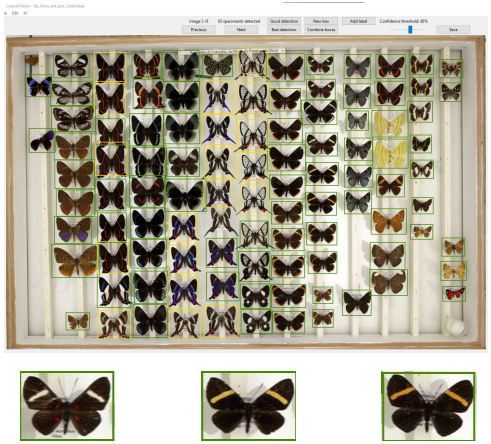
5. Import from templates

DaRWiN
DISSCO

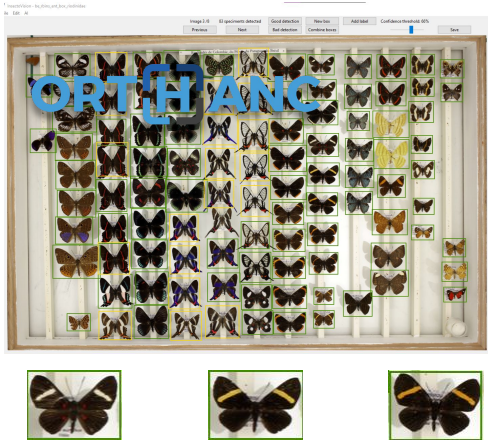
UUIDs

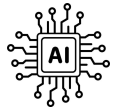
Taxon A Specimen 1
Taxon A Specimen 2
Taxon A Specimen 3

Image UUID
Box UUID
Codes
Taxa

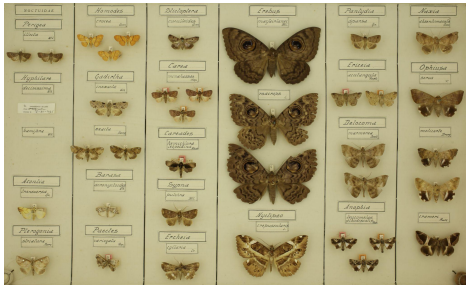


6. Import images



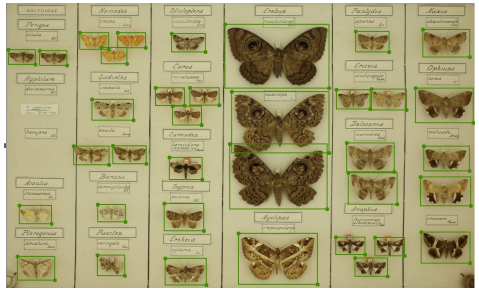
natural sciences .be	AFRICA museum	Hexapoda INSECTARIUM JEAN LECLERCQ	
17.000.000	**6.000.000**	**6.000.000**	
70.000	**10.000**	**10.000**	
60 PM	12 PM	12 PM	
6 PM	1 PM	1 PM	
24 PM	4 PM	4 PM	DaRWiN DISCO ORTHANC
70 PM	17 PM	17 PM	

1. Digitization Box



Collections, Codes, Names

2. AI Insectovision



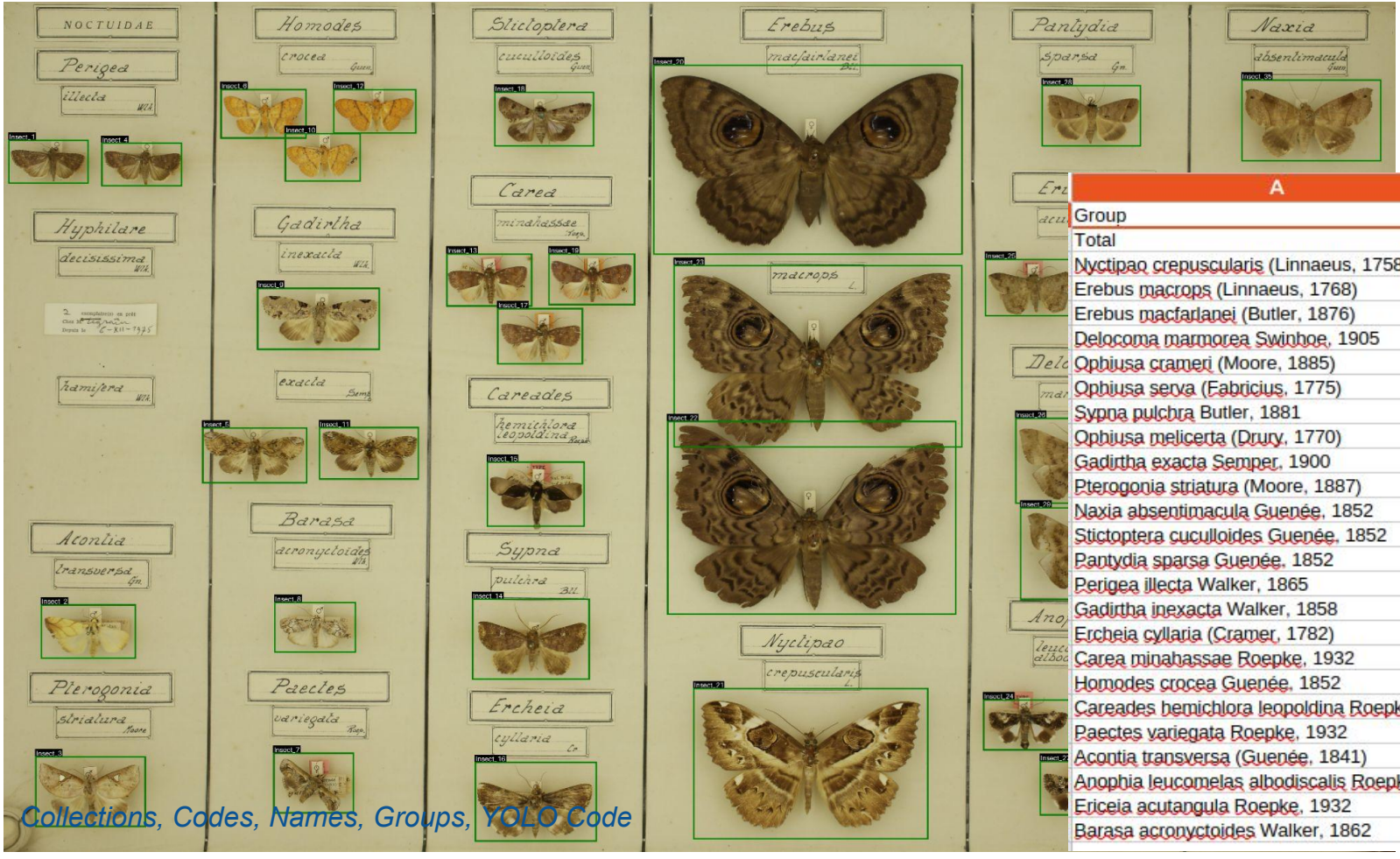
Counts, Taxons, Sub-counts





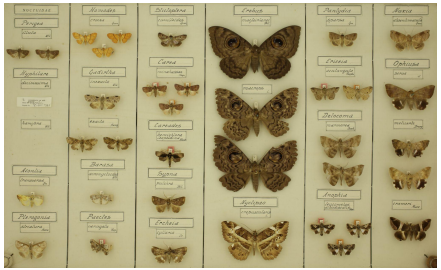
A	B	C	D	E
0	3.23%	18.81%	5.77%	5.18%
0	6.09%	74.03%	6.85%	6.39%
0	6.25%	92.87%	7.96%	8.31%
0	9.92%	19.13%	5.81%	5.13%
0	18.04%	53.32%	7.55%	6.59%
0	18.67%	13.17%	6.19%	5.88%
0	22.27%	91.86%	5.81%	7.17%
0	22.38%	73.55%	5.87%	5.97%
0	22.62%	37.28%	8.83%	7.32%
0	22.93%	18.29%	5.46%	5.72%
0	26.25%	53.10%	7.18%	6.21%
0	26.67%	12.88%	6.00%	5.26%
0	34.90%	32.71%	6.18%	6.25%
0	37.89%	74.94%	8.47%	9.52%
0	38.24%	57.89%	7.03%	7.69%
0	38.24%	94.06%	8.77%	9.39%
0	38.55%	39.32%	6.18%	6.65%
0	38.84%	13.82%	7.18%	6.46%
0	42.26%	32.63%	6.25%	6.10%
0	57.79%	18.57%	22.25%	22.35%
0	57.99%	89.59%	16.89%	17.82%
0	58.06%	60.68%	20.80%	22.82%
0	58.50%	41.68%	20.78%	21.48%
0	73.49%	85.02%	6.25%	6.04%
0	74.09%	33.60%	7.20%	6.77%
0	77.76%	53.97%	10.20%	10.13%
0	77.91%	92.46%	6.96%	6.42%
0	78.13%	13.41%	7.15%	7.22%
0	78.24%	64.90%	10.44%	10.92%
0	81.67%	33.67%	7.48%	7.25%
0	81.87%	85.28%	6.28%	6.45%
0	93.56%	35.73%	12.36%	12.13%
0	93.81%	65.88%	10.72%	10.09%
0	93.85%	85.62%	10.44%	10.98%
0	93.94%	13.95%	10.06%	9.66%
0	94.02%	54.38%	9.74%	8.73%

2. Insectovision



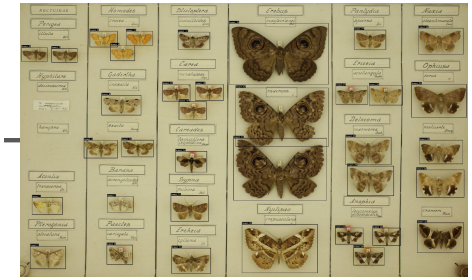
A	B	C
Group	Class	Amount
Total	Insect	36
Nyctipao crepuscularis (Linnaeus, 1758)	Insect	1
Erebus macrops (Linnaeus, 1768)	Insect	2
Erebus macfarlanei (Butler, 1876)	Insect	1
Delocoma marmorea Swinhoe, 1905	Insect	2
Ophiusa crameri (Moore, 1885)	Insect	1
Ophiusa serva (Fabricius, 1775)	Insect	1
Sypna pulchra Butler, 1881	Insect	1
Ophiusa melicerta (Drury, 1770)	Insect	2
Gadirtha exacta Semper, 1900	Insect	2
Pterogonia striatura (Moore, 1887)	Insect	1
Naxia absentimacula Guenée, 1852	Insect	1
Stictoptera cuculloides Guenée, 1852	Insect	1
Pantydia sparsa Guenée, 1852	Insect	1
Perigea illecta Walker, 1865	Insect	2
Gadirtha inexacta Walker, 1858	Insect	1
Ercheia cyllaria (Cramer, 1782)	Insect	1
Carea minahassae Roepke, 1932	Insect	3
Homodes crocea Guenée, 1852	Insect	3
Careades hemichlora leopoldina Roepke, 1932	Insect	1
Paectes variegata Roepke, 1932	Insect	1
Acontia transversa (Guenée, 1841)	Insect	1
Anophia leucomelas albodiscalis Roepke, 1932	Insect	3
Ericeia acutangula Roepke, 1932	Insect	2
Barasa acronyctoides Walker, 1862	Insect	1

1. Digitization Box



Collections, Codes, Names

2. AI Insectovision



Counts, Taxons, Sub-counts







3. Import from templates

Summary file

BOX Item

Collection, Codes, Name
Total Counts,
Identifications with counts,
Storage, Raw, Column,
Shelf

YOLO file

Specimen Items

Collection, YOLO Code,
Taxonomy,
Storage, Raw, Column,
Shelf

DaRWiN

DISSCO

Code | Location | Taxonomy | Counts_Storage | Acquisition | Box content | External links

Specimen code	Secondary code	Field code	Project	Project description	Collection	Entered by	IG	Description - Notes
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112								

Code | Location | **Taxonomy** | Counts_Storage | Acquisition | Box content | External links

Specimen code	Location code	Kingdom	Phylum	Class	Order	Family	Subfamily	Genus	Species
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112						Noctuidae Latreille, 1809			

Code | Location | Taxonomy | **Counts_Storage** | Acquisition | Box content | External links

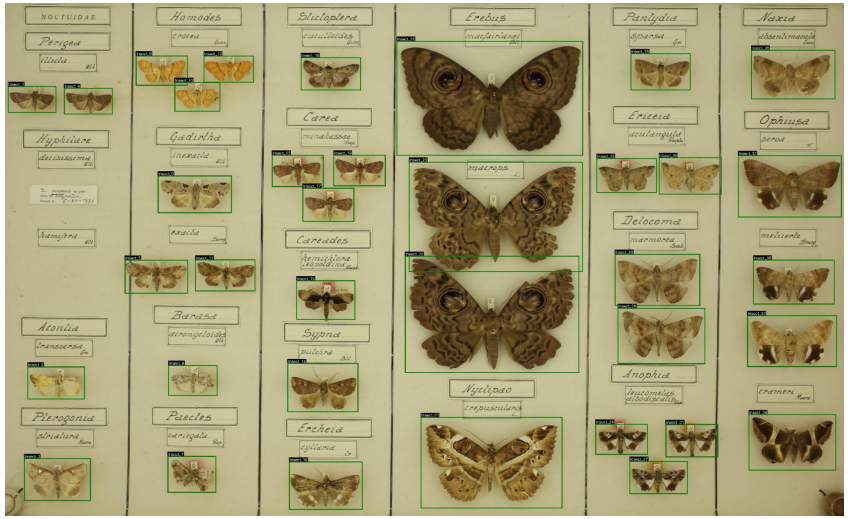
Institution	Building	Floor	Room	Lane	Column	Shelf	Status	Category	Specimen part	Object name	Container ID	Container type	Container medium	Subcontainer ID	Subcontainer type	Subcontainer medium	Storage notes	Association domain
Royal Belgian Institute	De Veste	3	3C	Noct		112		Container	Box	Prince Léopold 1929 Box 112	108	cabinet	dry	Box 112	box	dry		

Code | Location | Taxonomy | Counts_Storage | **Acquisition** | Box content | External links

Specimen code	Location code	Type	From	Day	Month	Year	Acquisition notes
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Donator	de Belgique, Léopold (Prince)				

Code | Location | Taxonomy | Counts_Storage | Acquisition | **Box content** | External links

Box code	UUID	Taxon	Category	Det. status	Identifier	Total count
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Acontia transversa (Guenée, 1841)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Anophia leucomelas albodiscalis Roepk	taxonomy			3
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Barasa acronyctoides Walker, 1862	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Carea minahassae Roepke, 1932	taxonomy			3
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Careades hemichlora leopoldina Roepk	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Delocoma marmorea Swinhoe, 1905	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Ercheia cyllaria (Cramer, 1782)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Erebus macfarlanei (Butler, 1876)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Erebus macrops (Linnaeus, 1768)	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Ericeia acutangula Roepke, 1932	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Gadirtha exacta Semper, 1900	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Gadirtha inexacta Walker, 1858	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Homodes crocea Guenée, 1852	taxonomy			3
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Naxia absentimacula Guenée, 1852	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Nyctipao crepuscularis (Linnaeus, 1758	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Ophiusa crameri (Moore, 1885)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Ophiusa melicerta (Drury, 1770)	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Ophiusa serva (Fabricius, 1775)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Paectes variegata Roepke, 1932	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Pantydia sparsa Guenée, 1852	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Perigea illecta Walker, 1865	taxonomy			2
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Pterogonia striatura (Moore, 1887)	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Stictoptera cuculloides Guenée, 1852	taxonomy			1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112		Sypna pulchra Butler, 1881	taxonomy			1



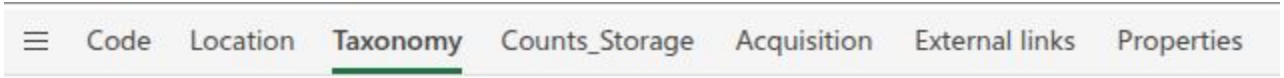
Code | Location | Taxonomy | Counts_Storage | Acquisition | Box content | **External links**

Specimen code	Link 1 Type	URL 1	Access rights 1	Link 2 Type	URL 2
	IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified	Other	https://collections.naturalsciences.be/ssh-entomology/collections/BE-RBINS-ENT%20Collection-prince-leopold-of-belgium-expedition-1929/drawers/box_112



Code | Location | Taxonomy | Counts_Storage | Acquisition | External links | Properties

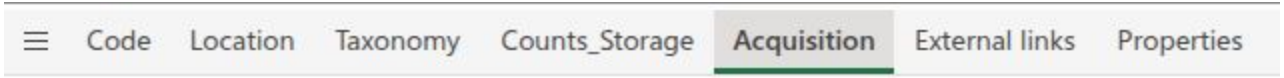
Specimen code	Location code	Kingdom	Phylum	Class	Order	Family	Subfamily	Genus	Species	Subspecies
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-001									Perigea illecta Walker, 1865	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002									Acontia transversa (Guenée, 1841)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003									Pterogonia striatura (Moore, 1887)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004									Perigea illecta Walker, 1865	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005									Gadirtha exacta Semper, 1900	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007									Paectes variegata Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008									Barasa acronyctoides Walker, 1862	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009									Gadirtha inexacta Walker, 1858	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-011									Gadirtha exacta Semper, 1900	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-012									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-013									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-014									Sypna pulchra Butler, 1881	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-015									Careades hemichlora	Careades hemichlora leopoldina Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-016									Ercheia cyllaria (Cramer, 1782)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-017									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-018									Stictoptera cucullioides Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020									Erebus macfarlanei (Butler, 1876)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021									Nyctipao crepuscularis (Linnaeus, 1758)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-022									Erebus macrops (Linnaeus, 1768)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-023									Erebus macrops (Linnaeus, 1768)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-024									Anophia leucomelas	Anophia leucomelas albodiscalis Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-025									Ericeia acutangula Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-026									Delocoma marmorea Swinhoe, 1905	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-027									Anophia leucomelas	Anophia leucomelas albodiscalis Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-028									Pantydia sparsa Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-029									Delocoma marmorea Swinhoe, 1905	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-030									Ericeia acutangula Roepke, 1932	



Specimen code	Location code	Kingdom	Phylum	Class	Order	Family	Subfamily	Genus	Species	Subspecies
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-001									Perigea illecta Walker, 1865	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002									Acontia transversa (Guenée, 1841)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003									Pterogonia striatura (Moore, 1887)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004									Perigea illecta Walker, 1865	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005									Gadirtha exacta Semper, 1900	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007									Paectes variegata Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008									Barasa acronyctoides Walker, 1862	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009									Gadirtha inexacta Walker, 1858	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-011									Gadirtha exacta Semper, 1900	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-012									Homodes crocea Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-013									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-014									Sypna pulchra Butler, 1881	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-015									Careades hemichlora	Careades hemichlora leopoldina Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-016									Ercheia cyllaria (Cramer, 1782)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-017									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-018									Stictoptera cucullioides Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019									Carea minahassae Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020									Erebus macfarlanei (Butler, 1876)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021									Nyctipao crepuscularis (Linnaeus, 1758)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-022									Erebus macrops (Linnaeus, 1768)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-023									Erebus macrops (Linnaeus, 1768)	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-024									Anophia leucomelas	Anophia leucomelas albodiscalis Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-025									Ericeia acutangula Roepke, 1932	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-026									Delocoma marmorea Swinhoe, 1905	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-027									Anophia leucomelas	Anophia leucomelas albodiscalis Roepke, 1932
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-028									Pantydia sparsa Guenée, 1852	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-029									Delocoma marmorea Swinhoe, 1905	
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-030									Ericeia acutangula Roepke, 1932	

Code | Location | Taxonomy | Counts_Storage | Acquisition | External links | Properties

Specimen code	Location code	Sex	Life stage	Type	Code of associated part/specimen	Amount males	Amount females	Amount juveniles	Total number
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-001									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-011									1
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BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-014									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-015									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-016									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-017									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-018									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-022									1
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-023									1



Specimen code	Location code	Type	From	Day	Month	Year	Acquisition notes
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-001		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-011		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-012		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-013		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-014		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-015		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-016		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-017		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-018		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-022		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-023		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-024		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-025		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-026		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-027		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-028		Donator	de Belgique, Léopold (Prince)				
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-029		Donator	de Belgique, Léopold (Prince)				

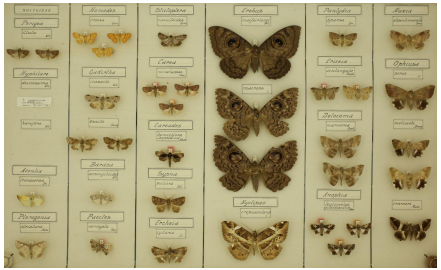
Code | Location | Taxonomy | Counts_Storage | Acquisition | External links | Properties

Specimen code	Location code	Link 1 Type	URL 1	Link 2 Type
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-001		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
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BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified
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BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-029		IIIF (Orthanc collection)	https://orthancproxy.africamuseum.be	unspecified

Code | Location | Taxonomy | Counts_Storage | Acquisition | External links | **Properties**

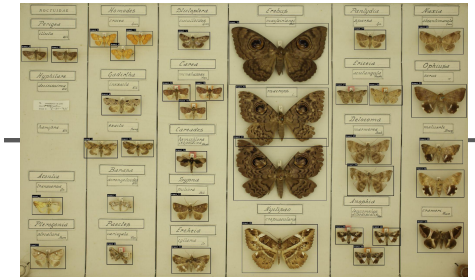
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BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-002		6.1%	74.0%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-003		6.2%	92.9%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-004		9.9%	19.1%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-005		18.0%	53.3%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-006		18.7%	13.2%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-007		22.3%	91.9%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-008		22.4%	73.5%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-009		22.6%	37.3%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-010		22.9%	18.3%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-011		26.2%	53.1%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-012		26.7%	12.9%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-013		34.9%	32.7%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-014		37.9%	74.9%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-015		38.2%	57.9%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-016		38.2%	94.1%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-017		38.5%	39.3%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-018		38.8%	13.8%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-019		42.3%	32.6%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-020		57.8%	18.6%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-021		58.0%	89.6%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-022		58.1%	60.7%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-023		58.5%	41.7%
BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112-024		73.5%	85.0%

1. Digitization Box



Collections, Codes, Names

2. AI Insectovision



Counts, Taxons, Sub-counts



3. Import from templates

Summary file

Box Item

Collection, Codes, Name
Total Counts,
Identifications with counts,
Storage, Raw, Column,
Shelf

YOLO file

Specimen Items

Collection, YOLO Code,
Taxonomy,
Storage, Raw, Column,
Shelf

DaRWiN

DiSSCO

IIIF

ORTHANC

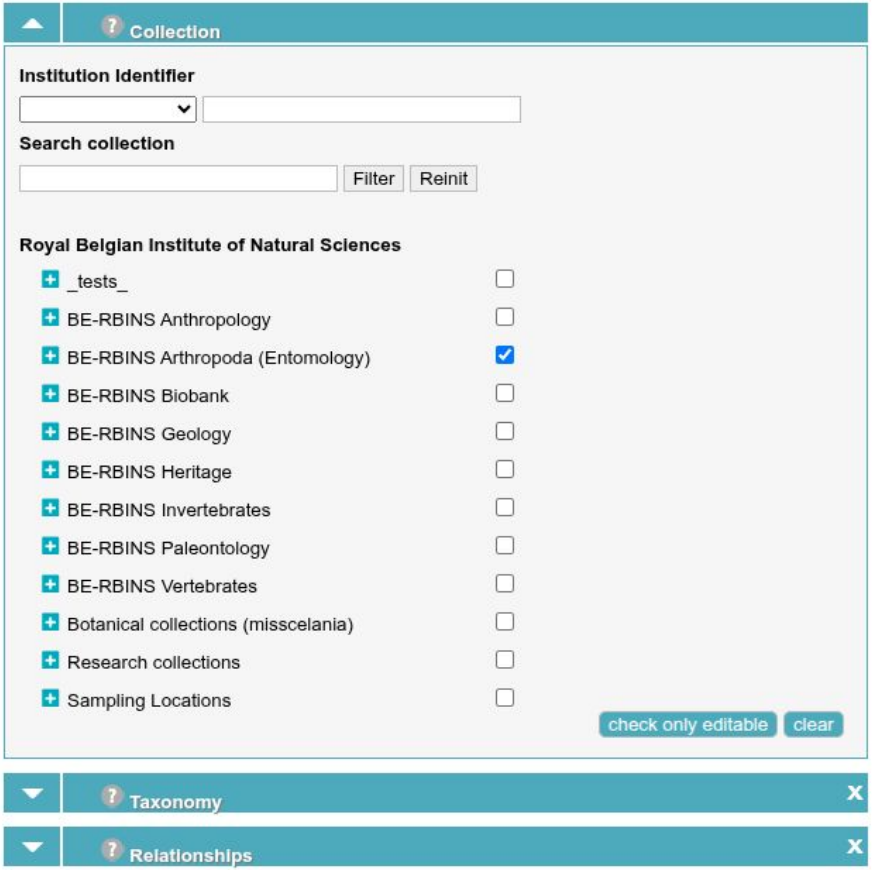
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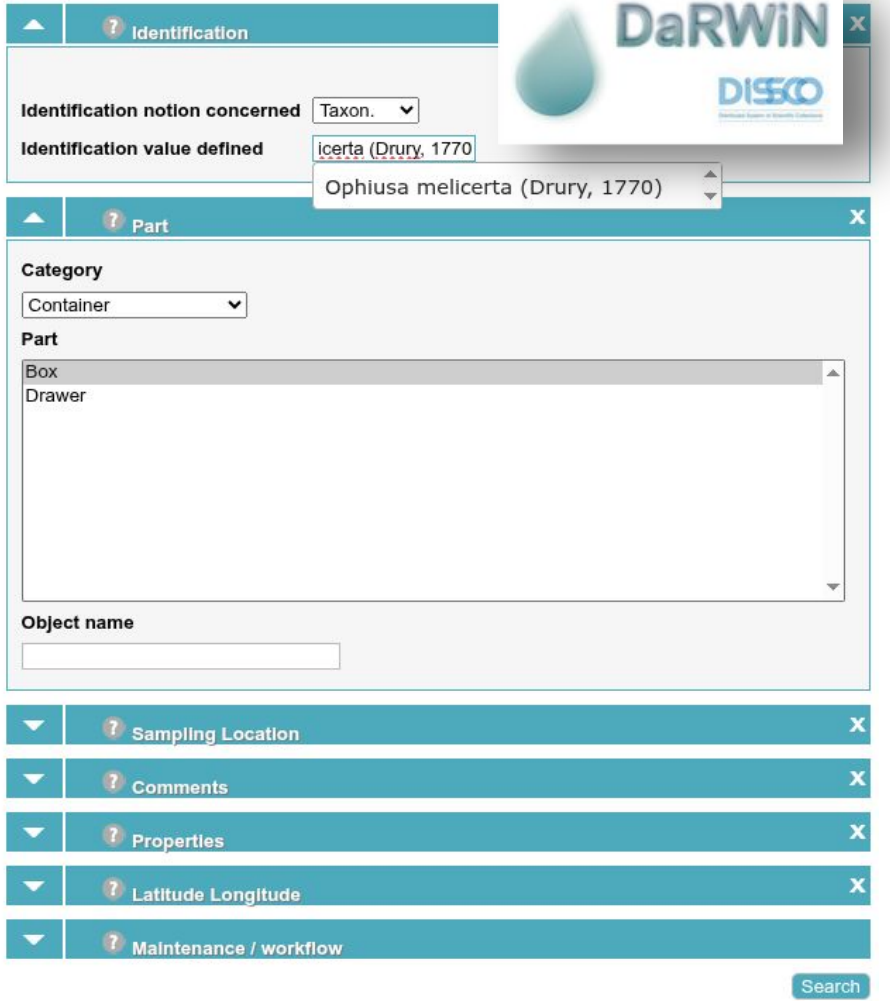
DaRWiN

DiSSCO

5. Viewer IIIF

4. Import from templates


Collection
Institution Identifier
Search collection
Filter
Reinit
Royal Belgian Institute of Natural Sciences
tests
BE-RBINS Anthropology
BE-RBINS Arthropoda (Entomology)
BE-RBINS Biobank
BE-RBINS Geology
BE-RBINS Heritage
BE-RBINS Invertebrates
BE-RBINS Paleontology
BE-RBINS Vertebrates
Botanical collections (misscelania)
Research collections
Sampling Locations
check only editable
clear
Taxonomy
Relationships


Identification
Identification notion concerned
Taxon.
Identification value defined
icerta (Drury, 1770
Ophiusa melicerta (Drury, 1770)
Part
Category
Container
Part
Box
Drawer
Object name
Sampling Location
Comments
Properties
Latitude Longitude
Maintenance / workflow
Search

Show URL

« ‹ [1] › » 1 /1 go

Your query retrieved :
- 1 records
- 1 distinct records based on I.G. and main collection tag
- 1 physical specimens (minimal estimate)
- 1 physical specimens (maximal estimate)

- MIDS 0 : 0 records, 0 physical specimens (minimal estimate), 0 physical specimens (maximal estimate)
- MIDS 1 : 1 records, 1 physical specimens (minimal estimate), 1 physical specimens (maximal estimate)
- MIDS 2 : 0 records, 0 physical specimens (minimal estimate), 0 physical specimens (maximal estimate)
- MIDS 3 : 0 records, 0 physical specimens (minimal estimate), 0 physical specimens (maximal estimate)

Records per page: 50

Select all	Actions	Codes	Taxon	Type	Sex	Stage	Building	Floor	Room	Row	column	Shelf	Container	Container Storage	Loans
☐		BE-RBINS-ENT-Prince Léopold of Belgium - Expedition 1929-Box 112	*Noctuidae Latreille, 1809* valid				De Vestel	3	3C	Noct		112	108	dry	**0**

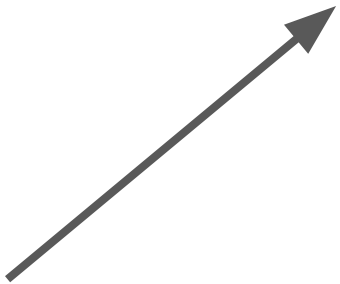
« ‹ [1] › » 1 /1 go

Show URL

Back to criteria

Save my pinned specimens Go Save this search

- BE-RBINS Arthropoda (Entomology) ☐
  - BE-RBINS Entomology Types on VC ☐
  - BE-RBINS INV-ARA Arachnids ☐
  - BE-RBINS INV-INS Insects ☐
  - Lepidoptera ☐
    - Heterocera ☐
    - Rhopalocera ☐



- Rhopalocera ☐
  - Belgian Rhopalocera Collection ☐
  - General Rhopalocera Collection ☐
    - Arsène Fouassin ☐
    - Collection Voyage of H. R. H. the Prince Leopold (1929) ☐
      - Boxes ☑

View Specimen

Collection

BE-RBINS Arthropoda (Entomology)/BE-RBINS INV-INS Insects/Lepidoptera/Rhopalocera/General Rhopalocera Collection/Collection Voyage of H. R. H. the Prince Leopold (1929)

I.G. number

Codes

Category	Code
main	BE-RBINS-ENT - Prince Léopold of Belgium - Expedition 1929 - Box 112
Original and stable id	1571169
UUID	7b77373f-2d66-418d-b48d-8367b95b78f2

Comments

Part

Category	container
Specimen part	Box
Object name	Prince Léopold 1929 Box 112

Taxonomy

Noctuidae Latreille, 1809

Taxonomy: RBINS Reference

Expedition

Collecting method

No Methods defined

Collectors

Donators or Sellers

de Belgique, Léopold (Prince)

Sampling location

Date from	01/01/1929 00:00:00
Date to	31/12/1929 23:59:59

Properties

Type	Applies to	Values	Date From	Date To

Relationships

View all related specimens

darwin.naturalsciences.be/backend.php/specimen/view/id/1571169

Date	Category	Subject	Det. St.	Identifiers	Count
01/01/0001	taxonomy	Perigea illecta Walker, 1865			2 specimen(s)
01/01/0001	taxonomy	Noctuidae Latreille, 1809			
01/01/0001	taxonomy	Hyphilare decisissima (Walker, 1865)			1 specimen(s)
01/01/0001	taxonomy	Hyphilare hamifera (Walker, 1862)			1 specimen(s)
01/01/0001	taxonomy	Acontia transversa (Guenée, 1841)			1 specimen(s)
01/01/0001	taxonomy	Noctuidae Latreille, 1809			
01/01/0001	taxonomy	Pterogonia striatura (Moore, 1887)			1 specimen(s)
01/01/0001	taxonomy	Homodes crocea Guenée, 1852			3 specimen(s)
01/01/0001	taxonomy	Gadirtha inexacta Walker, 1858			1 specimen(s)
01/01/0001	taxonomy	Gadirtha exacta Semper, 1900			2 specimen(s)
01/01/0001	taxonomy	Barasa acronyctoides Walker, 1862			1 specimen(s)
01/01/0001	taxonomy	Paectes variegata Roepke, 1932			1 specimen(s)
01/01/0001	taxonomy	Stictoptera cuculloides Guenée, 1852			1 specimen(s)
01/01/0001	taxonomy	Noctuidae Latreille, 1809			3 specimen(s)
01/01/0001	taxonomy	Careades hemichlora leopoldina Roepke, 1932			1 specimen(s)
01/01/0001	taxonomy	Sypna pulchra Butler, 1881			1 specimen(s)
01/01/0001	taxonomy	Ercheia cyllaria (Cramer, 1782)			1 specimen(s)
01/01/0001	taxonomy	Erebus macfarlanei (Butler, 1876)			1 specimen(s)

DaRWiN

DISSCO

Multimedia

Image (non IIIF) https://collections.naturalsciences.be/ento..... picture

Others

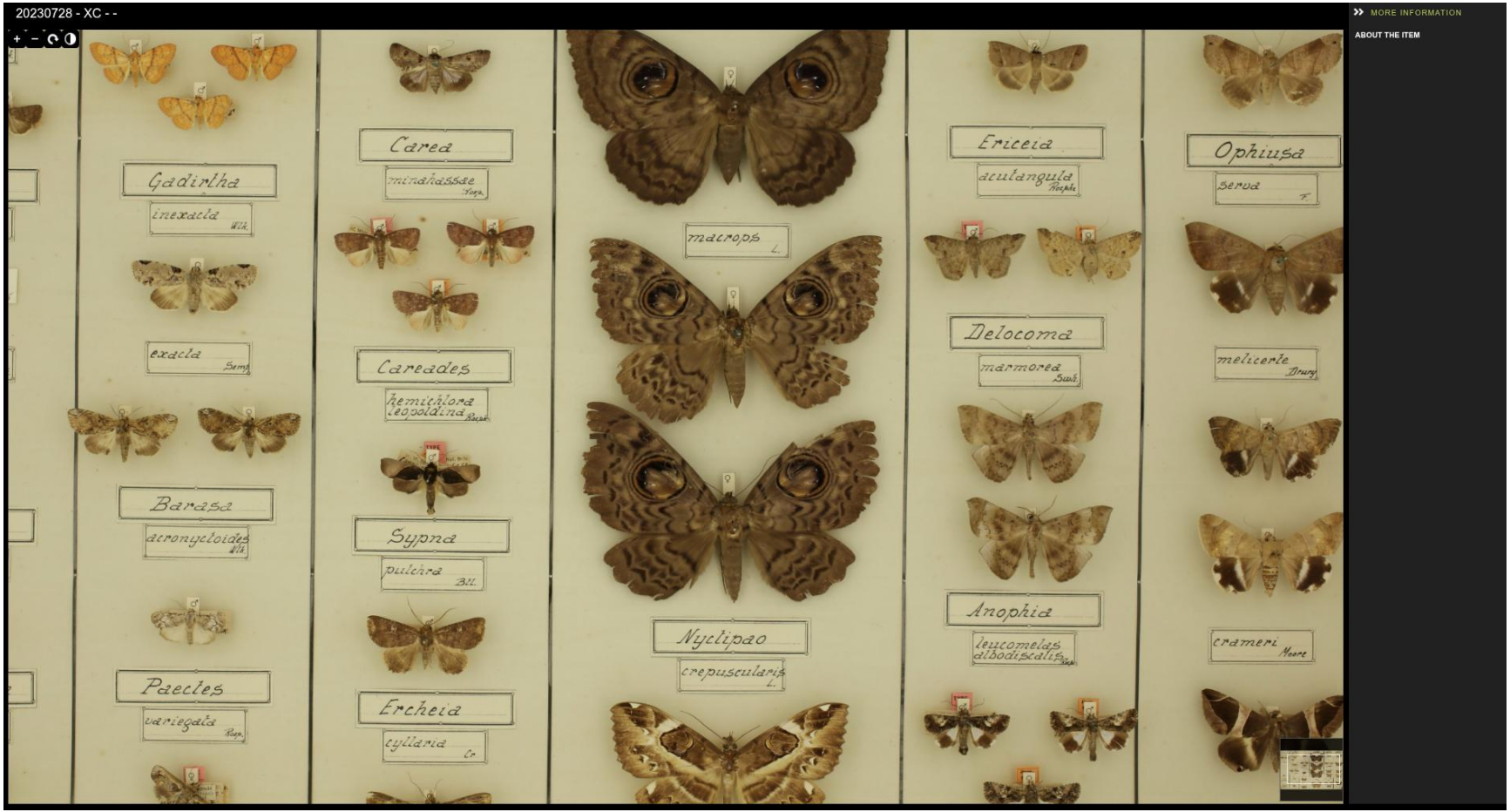
Other External https://collections.naturalsciences.be/ssh-ento..... Plone page public

Orthanc (collection)

20230728 - XC - -

MORE INFORMATION




20230728 - XC - -
MORE INFORMATION
ABOUT THE ITEM
Gadirtha
inexacta
exacta
Baraea
aeruginoloides
Paecles
variegata
Careas
minahassae
Careades
hemichlora
leopoldina
Sypna
pulchra
Ercheia
cyllaria
macrops
Nyctipao
crepuscularis
Ericeia
atulangula
Delocoma
marmorea
Anophia
leucomelas
albodiscalis
Ophiusa
serva
melicerte
crameri

Taxonomy

Noctuidae Latreille, 1809

Taxonomy: RBINS Reference

Identifications

Count

Container

supernumerary ?	No
Container	108
Container type	cabinet
Container storage	dry
Sub container	Box 112
Sub Container Type	box
Sub container storage	dry

Localisation

Institution	Royal Belgian Institute of Natural Sciences
Building	De Vestel
Floor	3
Room	3C
Row	Noct
Column	-
Shelf	112

Relationships

View all related specimens

External Links

image ext

Type	Url	Comment	Access rights
Multimedia			
Image (non IIIF)	https://collections.naturalsciences.be/ssh-ento.....	Plone picture	unspecified
Others			
Other External	https://collections.naturalsciences.be/ssh-ento.....	Plone page	public

Orthanc (collection)

Bibliography

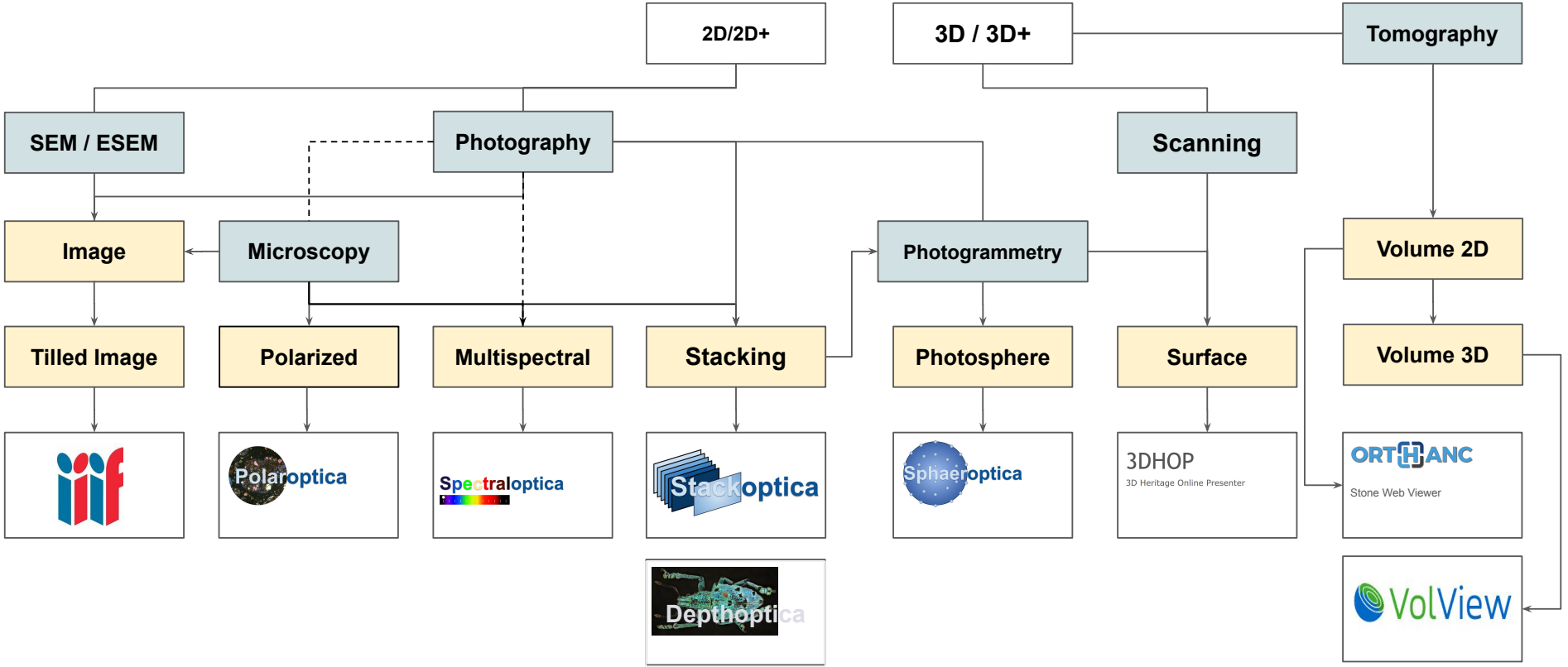
Back



Natural Earth Administrative | Browse layers | Add layers | OpenStreetMap | Download PNG | 700 X 700

Select all ■	Actions	Codes	Taxon	Type	Sex	Stage	Building	Floor	Room	Row	column	Shelf	Container	Container Storage	Loa
☐		BE-RBINS-ENT-Prince Léopold of Belgium - Expedition 1929-Box 112	*Noctuidae Latreille, 1809* valid				De Vestel	3	3C	Noct		112	108	dry	0
☐		HETVPL(1929)	*Ophiusa melicerta (Drury, 1770)* valid		Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HETVPL(1929)	*Delocoma marmorea Swinhoe, 1905* valid		Male	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HETVPL(1929)	*Ericeia acutangula Roepke, 1932* valid	paratype	Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Naxia absentimacula Guenée, 1852* valid		Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Acontia transversa (Guenée, 1841)* valid		Male	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Stictoptera cucullioides Guenée, 1852* valid		Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Nyctipao crepuscularis (Linnaeus, 1758)* valid		Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Erebus macfarlanei (Butler, 1876)* valid		Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Anophia leucomelas albodiscalis Roepke, 1932* valid	type	Male	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Anophia leucomelas albodiscalis Roepke, 1932* valid	paratype	Male	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Anophia leucomelas albodiscalis Roepke, 1932* valid	paratype	Female	Adult	De Vestel	3	3C	Noct		112	108	dry	0
☐		HET VPL (1929)	*Syona oulchra Butler, 1881* valid		Male	Adult	De Vestel	3	3C	Noct		112	108	dry	0

Digitization of Collections



\+ support



Category	DICOM Metadata
Patient / Specimen	7
Study(ies)	10
Setup(s) and calibration	8
Serie(s) (All digitisation workflows)	55
Instance(s) (All images and files)	25
Format Output	4

Items	tags
. Curator/collection manager Person in charge of the specimen (Curator, Conservator Collection manager) at the date of the digitisation.	A. Patient, W. All
. OtherPatientIDs Other codes used to define the specimen / object in inventories or databases	A. Patient, W. All
. PatientBirthDate Date of creation of the object	A. Patient, W. All
. Sex Sex of the Specimen	A. Patient, W. All
. Size Length or size of the specimen/object, in meters.	A. Patient, W. All
. Specimen / Object ID UID of the specimen in the Collection Management System	A. Patient, W. All
. Specimen / Object Name Name of the specimen in the Collection Management System	A. Patient, W. All

DICOM 2D Image OK

File Edit View Insert Format Data Tools Extensions Help

		B	C	D
1		DICOM tag	Specimen	
2	M	PatientID	Specimen / Object ID	
3	R	OtherPatientIDsSequence	Other IDs	
4	R	PatientName	Specimen Name	
5	O	PatientBirthDate	Birth date (DD/MM/YYYY)	
6	O	PatientSex	Sex (F,M,X)	Not defined
7	O	PatientSize	Size (m)	
8			Study	
9	A	StudyInstanceUID	Study Instance UID	Created by ORTHANC
10	M	InstitutionName	Institution	
11	M	StudyDate	Study Date (DD/MM/YYYY)	
12	R	StudyID	Study ID	
13	R	AccessionNumber	Accession Number	
14	R	RequestedProcedureDescription	Administrative description	
15	R	RequestingPhysician	Requester	
16	R	ReferringPhysicianName	Person in charge	
17	R	StudyDescription	Study description	
18	R	AdmittingDiagnosesDescription	Study Comments	
19	O	StudyTime	Study Time (HHMMSS)	
20			Digitization Setup	
21	M	Manufacturer	Manufacturer	
22	M	ManufacturerModelName	Model name	
23	R	DeviceSerialNumber	Serial number of the equipment used	
24	R	StationName	Station Name	
25	R	SoftwareVersions	Software Version	
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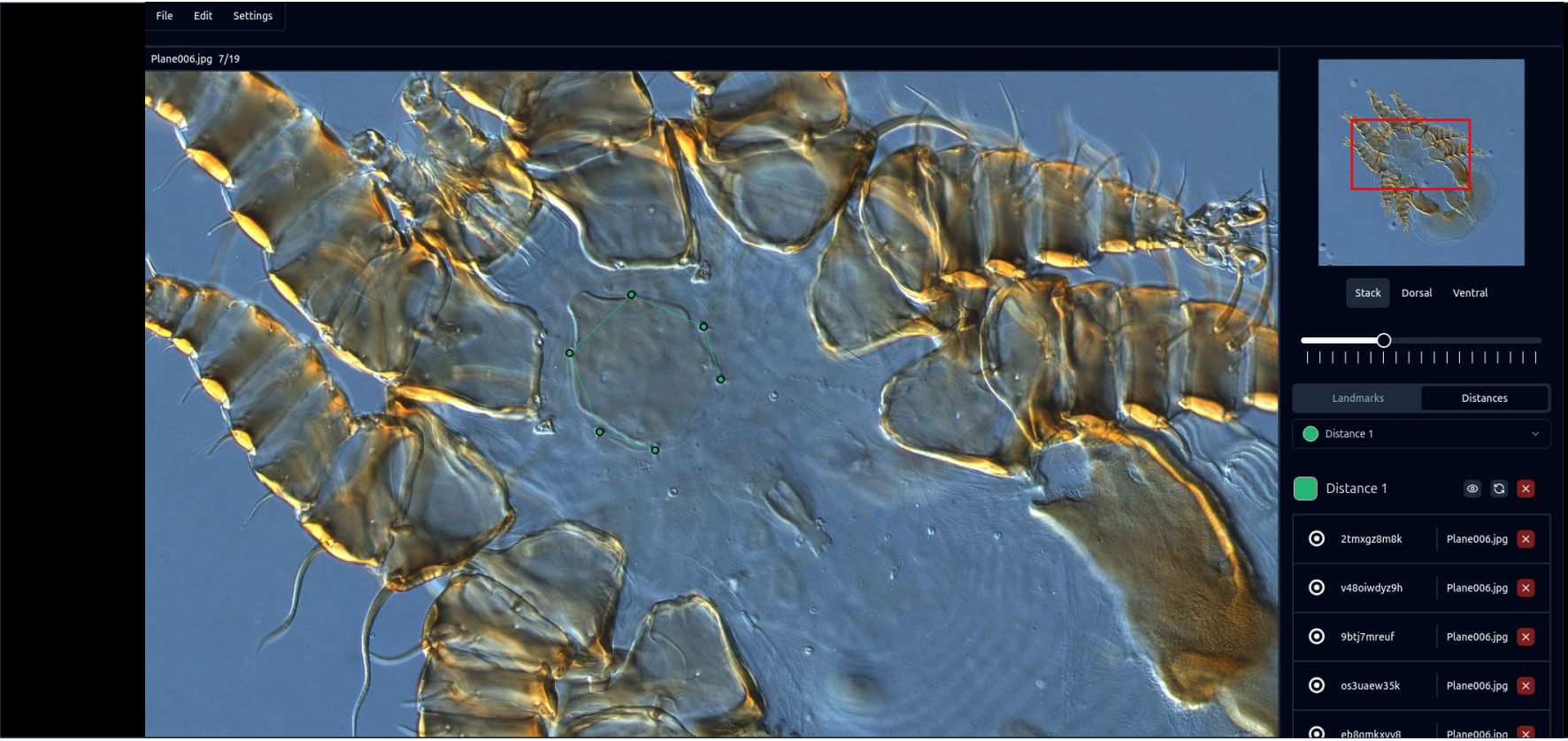
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File Edit View Insert Format Data Tools Extensions Help

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35	M	ImagesInAcquisition	Number of images	
45			Processing	
46	M	ImageProcessingApplied	Image Processing Applied	
50			Instance	
56	M	InstanceCreationDate	Instance Creation Date (DD/MM/YYYY) (exif)	
57	M	LensModel	Lens Model (exif)	
58	M	FocalLength	Focal Length (exif)	
59	M	ApertureValue	Aperture Value (exif)	
60	M	ExposureTimeInSeconds	Exposure Time In Seconds (exif)	
73			Output	

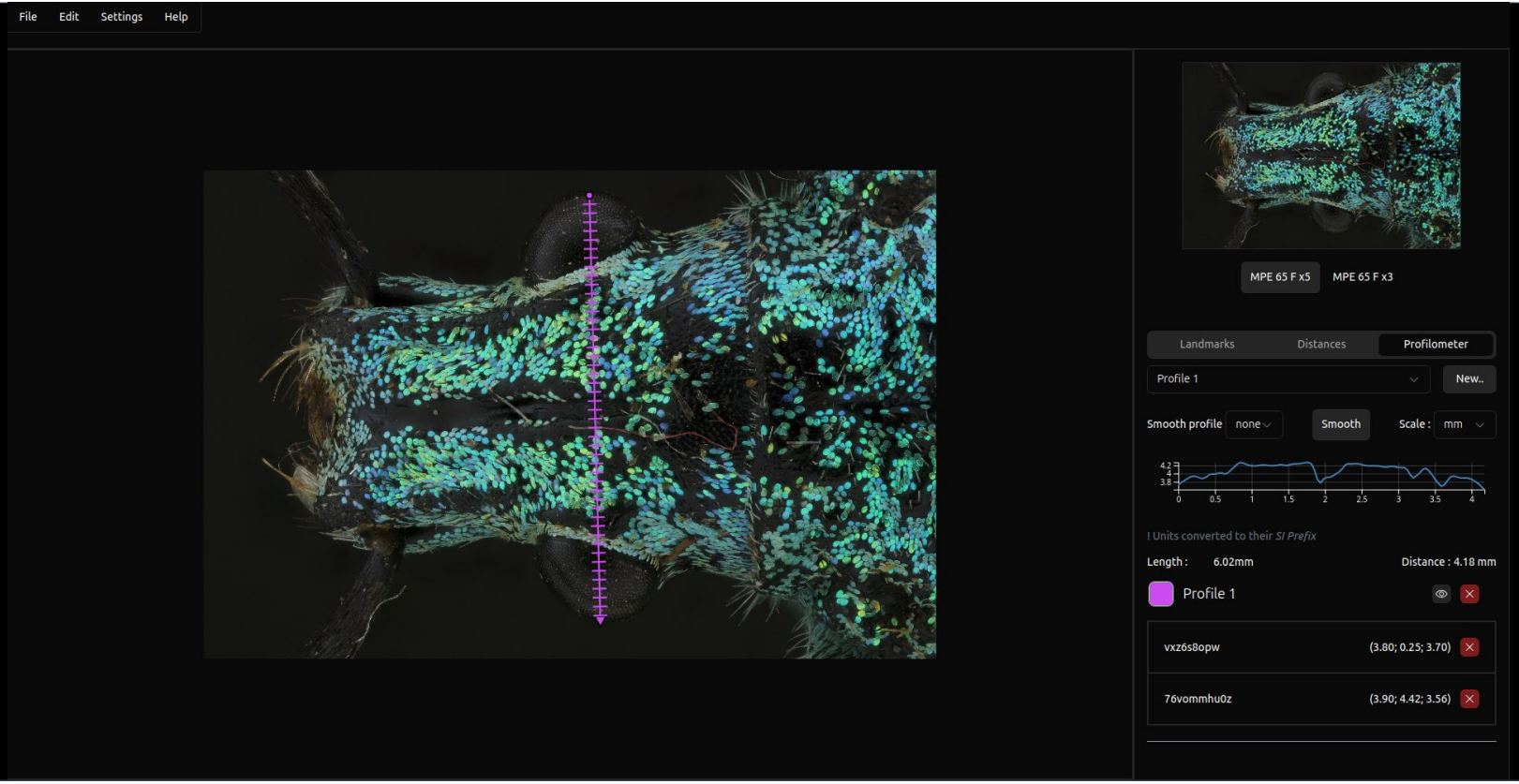
Stacked Images

Stackoptica



Stacked Images

Depthoptica



Images Sphere

PLOS One

Sphaeroptica

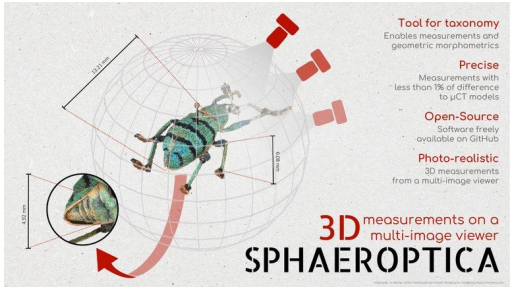
OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Sphaeroptica: A tool for pseudo-3D visualization and 3D measurements on arthropods

Aurore Mathys, Yann Pollet, Adrien Gressin, Xavier Muth, Jonathan Brecko, Wouter Dekoninck, Didier Vandenspiegel, Sébastien Jodogne, Patrick Semal

Published: October 23, 2024 • https://doi.org/10.1371/journal.pone.0311887



Article | Authors | Metrics | Comments | Media Coverage | Peer Review

Abstract
Introduction
Method
Results
Discussion and conclusion
Acknowledgments

Abstract

Natural history collections are invaluable reference collections. Digitizing these collections is a transformative process that improves the accessibility, preservation, and exploitation of specimens and associated data in the long term. Arthropods make up the majority of zoological collections. However, arthropods are small, have detailed color textures and share small, complex and shiny structures, which poses a challenge to conventional digitization methods. Sphaeroptica is a multi-images viewer that uses a sphere of oriented images. It allows the visualization of insects including their tiniest features, the positioning of landmarks, and the extraction of 3D coordinates for measuring linear distances or for use in geometric

Citation: Mathys A, Pollet Y, Gressin A, Muth X, Brecko J, Dekoninck W, et al. (2024) Sphaeroptica: A tool for pseudo-3D visualization and 3D measurements on arthropods. PLoS ONE 19(10): e0311887. https://doi.org/10.1371/journal.pone.0311887

Editor: Giulia Pascoletti, University of Perugia: Universita degli Studi di Perugia, ITALY

Received: April 2, 2024; **Accepted:** September 26, 2024; **Published:** October 23, 2024

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Data Availability: The code for the Sphaeroptica application is openly available on GitHub at the following URL: https://github.com/ypollet/Sphaeroptica-1. The application manual, along with example materials, can be accessed via dx.doi.org/10.17504/protocols.io.6qpvr352pvmk/v1 and the Sphaeroptica YouTube channel at https://www.youtube.com/@Sphaeroptica.

Images Sphere

Sphaeroptica



3D surface with texture (NXZ)

3DHOP

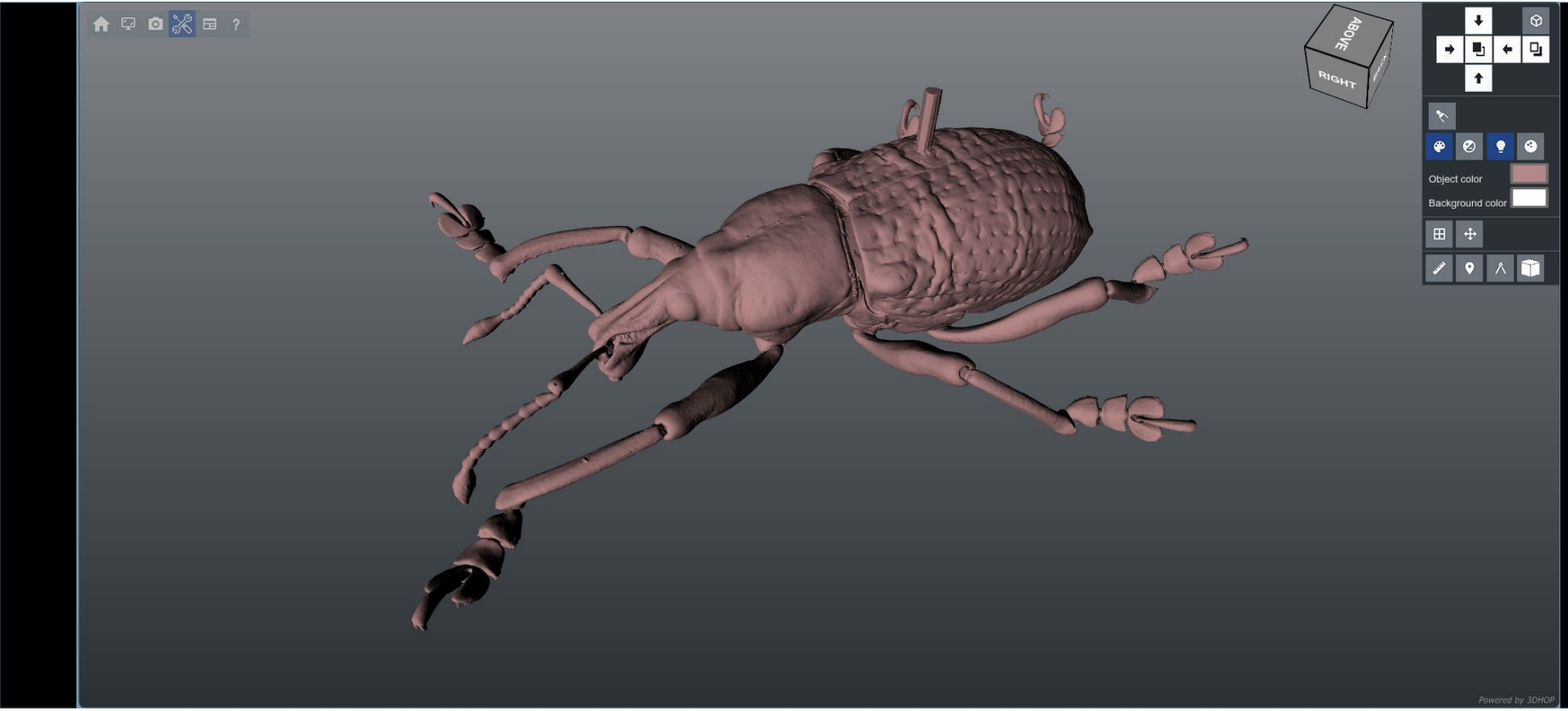
3D Heritage Online Presenter

3DHOP Photogrammetry

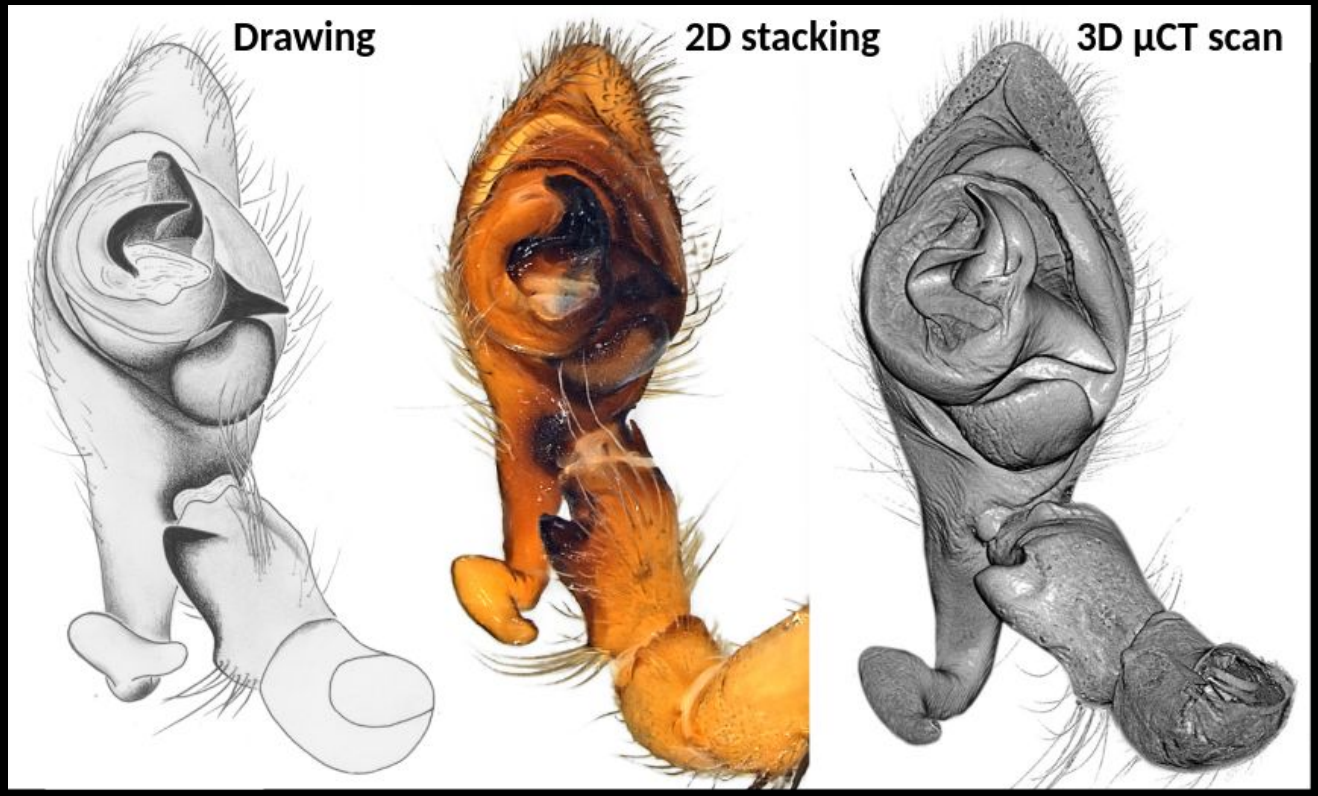


3D surface (NXZ)

3DHOP



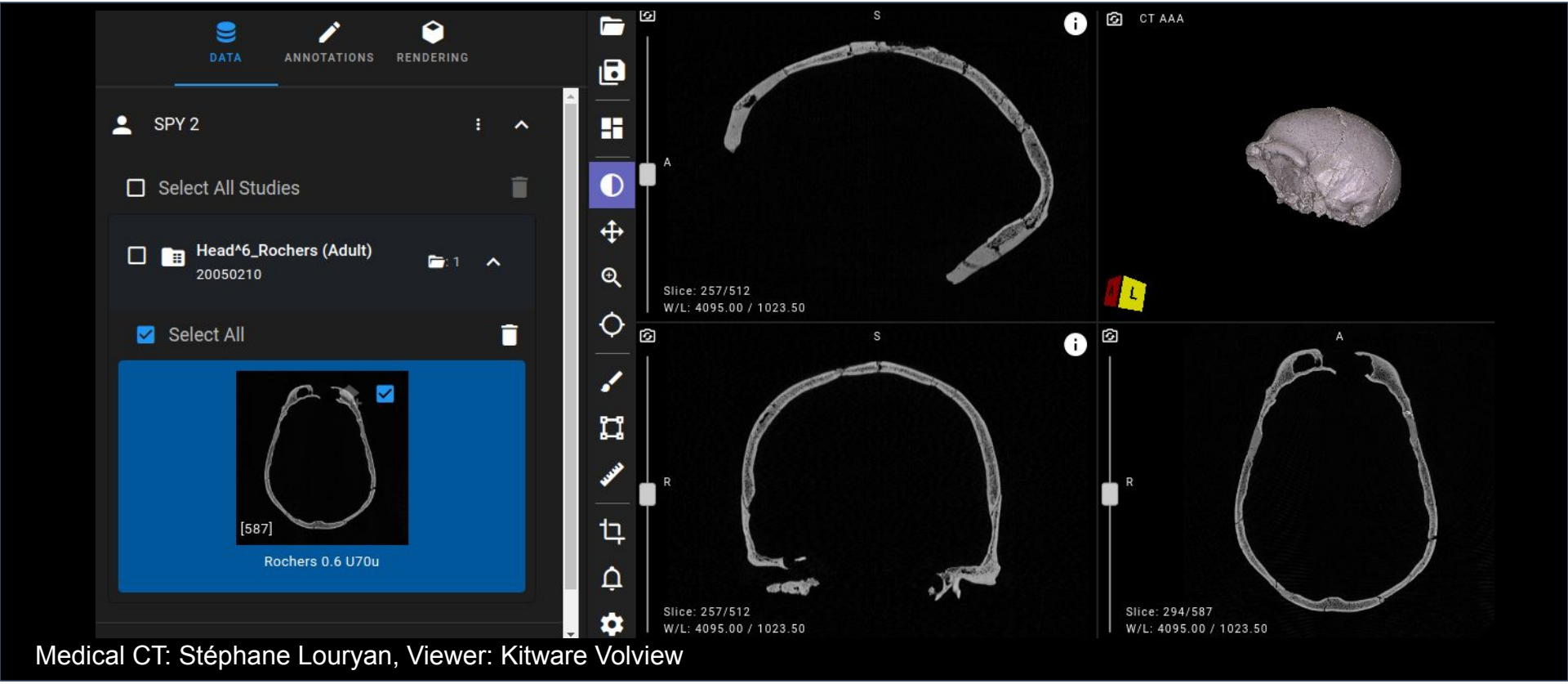
µCT



Spider taxonomy in the era of digitization programs and technologies

Arnaud HENRARD
Invertebrates - Biological data & collection management
RMCA

CT Data (DICOM)



Medical CT: Stéphane Louryan, Viewer: Kitware Volview

µCT Data (DICOM)



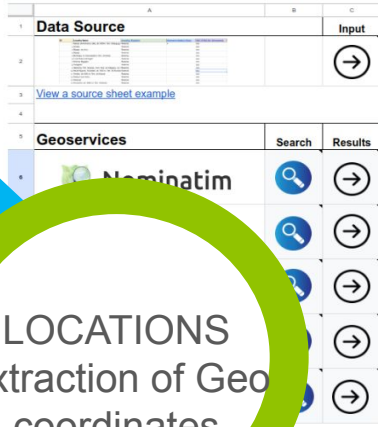
MicroCT: Andrei Postnov, Viewer: Kitware Volview

DiSSCo

Distributed System of Scientific Collections

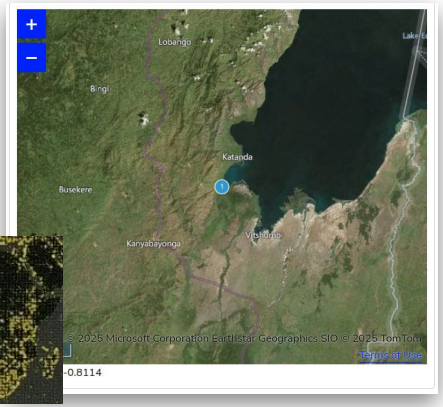


INVENTORIES
Sampling
Locations



MAPS
Provenance

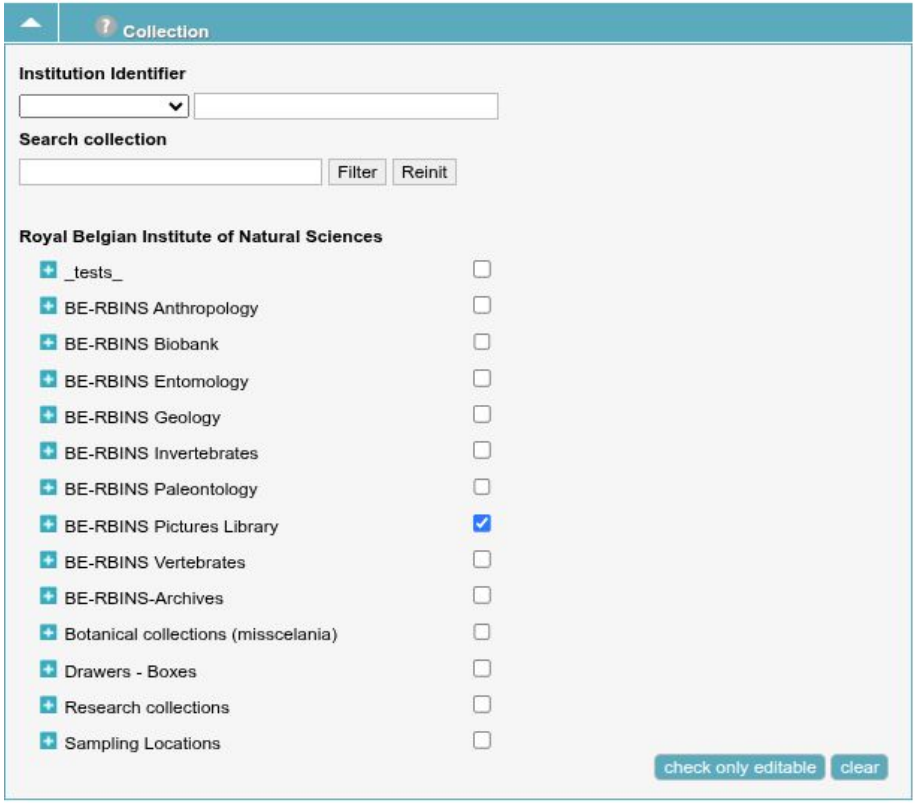
LOCATIONS
Extraction of Geo
coordinates

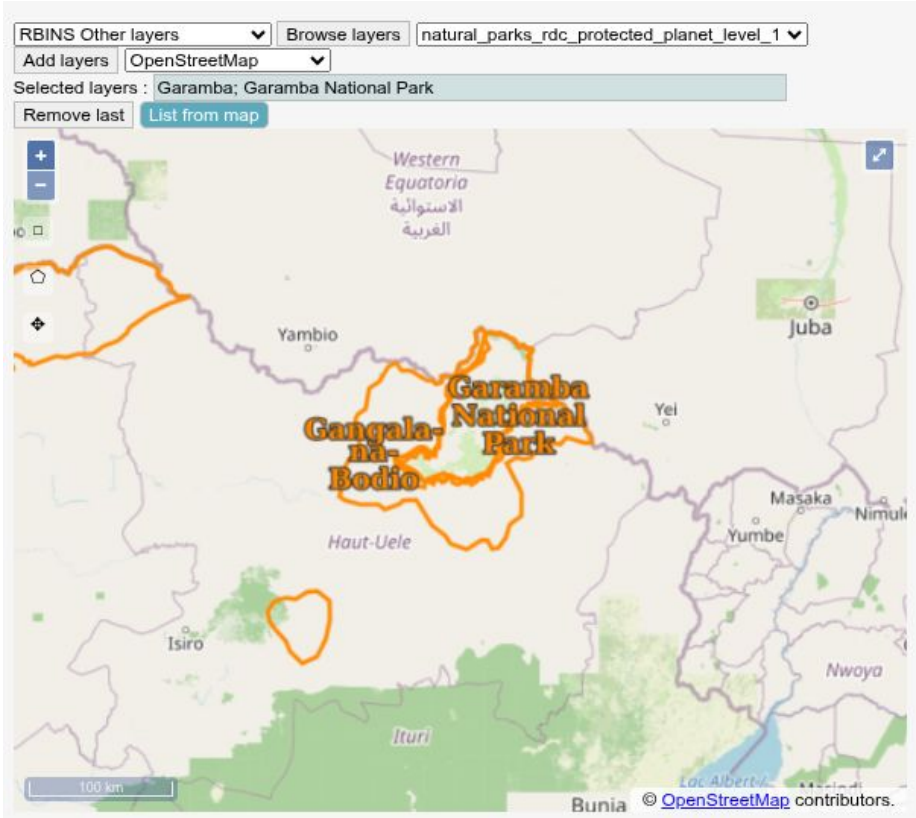


GEO
COORDINATES
Maps tools

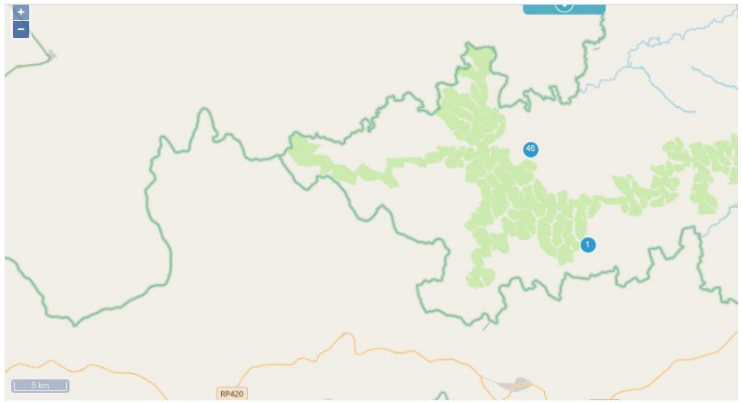


Observations / Pictures





Pictures



Natural Earth Administrative | Browse layers | Add layers | OpenStreetMap | Download PNG | 700 X 700

Select all	Actions	Codes	Taxon	Type	Sex	Stage	Building	Floor	Room
☐		Photo_IPNCB_PNG_vsc_138_u_f2-1							
☐		Photo_IPNCB_PNG_vsc_140_u_f2-1							
☐		Photo_IPNCB_PNG_vsc_171_u_f2-1							

Codes

Category	Code
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Original and stable id	1566050
UUID	7570ca07-4f2e-4333-8d10-48f927d7f729
Nr. Import	1763

PNG - Savane - La savane vue de la piste Wilibadi.

Properties

Type	Applies to	Values
Author		Verschuren
Gear		Leica
Photo_filename		vsc_140_u_f2-1.tif
Wildlife_park		PNG

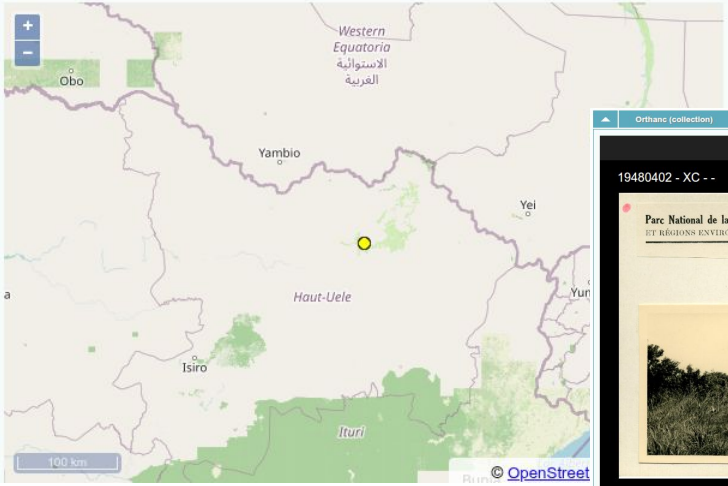
Continent - Administrative Area
- Africa

Country - Administrative Area
- Democratic Republic of the Congo

Wildlife_reserve - Area
- PNG

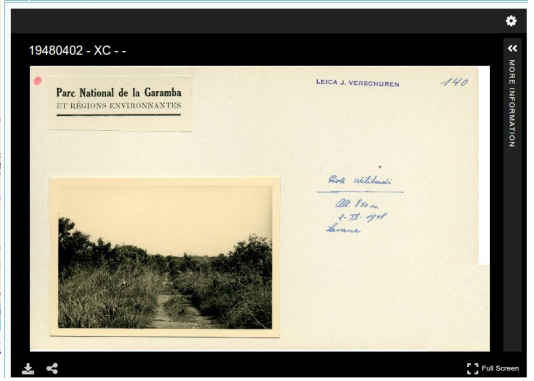
Biotope - Habitat
- Savane-Graminées et bosquets

Exact_site - Other
- Piste Wilibadi



View other records located nearby (radius) : m. Submit

Orthanc (collection)



19480402 - XC - -

+ − ↻ ◑

Parc National de la Garamba
ET RÉGIONS ENVIRONNANTES

LEICA J. VERSCHUREN 140



Piste Ukilibadi

Alt. 850 m.
2-IV-1948
Savane

ORT HANC



Piste Wilib

Alt. 850 m

2-IV-19

Savane

View other records located nearby (radius) : m. Submit

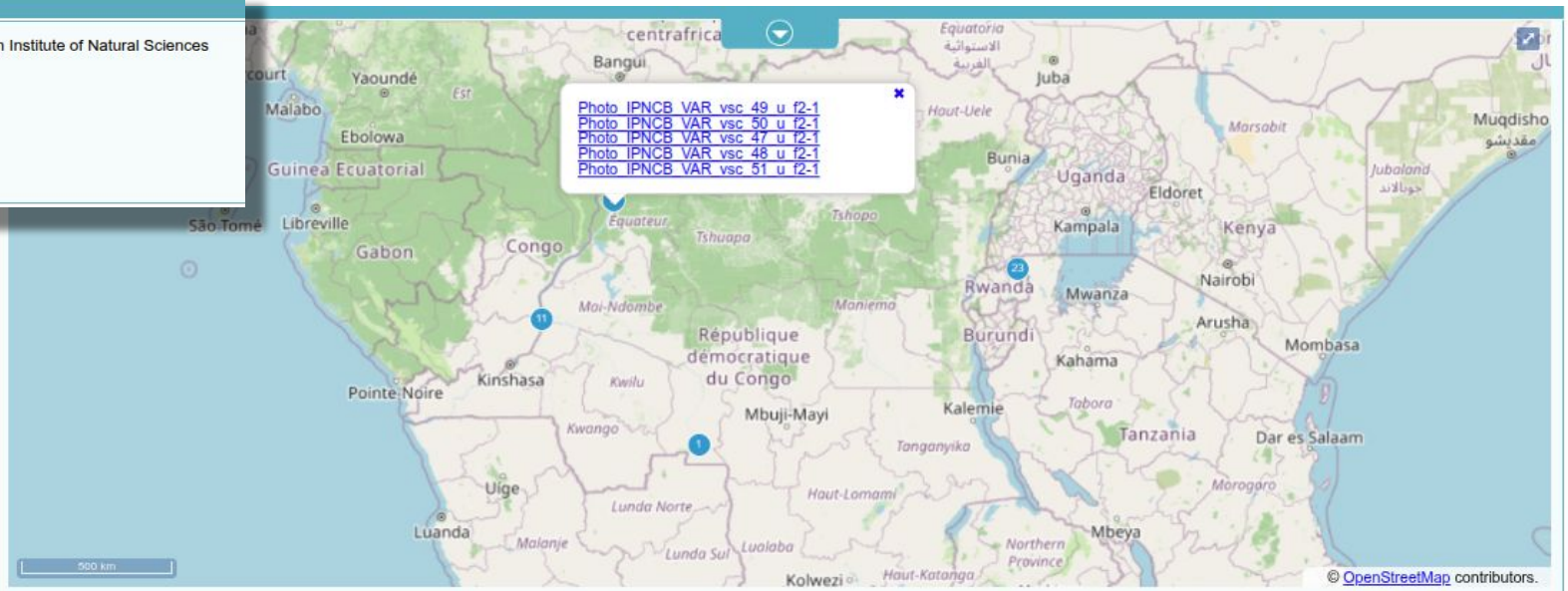


Natural Earth Administrative | Browse layers | Add layers | OpenStreetMap | Download PNG | 700 X 700

Select all	Actions	Codes	Taxon	Type	Sex	Stage	Building	Floor	Room	Row	column	Shelf	Container	Container Storage	Loans
		1755	*Bufo latifrons savannae Inger, 1968* valid	paratype	Unknown	Unknown	De Vestel	14	14C	1				alcohol	0
		5360	*Mabuya quinquetaeniata scharica (Sternfeld, 1917)* valid		Female	Unknown	De Vestel	14	14C	1				alcohol	0
		8195	*Pipistrellus nanus nanus (Peters, 1852)* valid		Unknown	Unknown	De Vestel	19	19C	1				alcohol	0
		9567	*Ptychadena perreti Guibé & Lamotte, 1958* valid		Male	Unknown	De Vestel	14	14C	1				alcohol	0
		9732	*Ptychadena oxyrhynchus (Smith, 1849)* valid		Male	Unknown	De Vestel	14	14C	1				alcohol	0
		10040	*Phrynobatrachus parkeri de Witte, 1933* valid		Unknown	Unknown	De Vestel	14	14C	1				alcohol	0

Localisation

Institution	Royal Belgian Institute of Natural Sciences
Building	-
Floor	-
Room	-
Row	-
Column	f2
Shelf	1



Natural Earth Administrative | Browse layers | Add layers | OpenStreetMap | Download PNG | 700 X 700

Select all	Actions	Codes	Taxon	Type	Sex	Stage	Building	Floor	Room	Row	column	Shelf	Container	Container Storage	Loans
☐		Photo_IPNCB_PNK_vsc_2_u_f2-1									f2	1			0
☐		Photo_IPNCB_PNK_vsc_3_u_f2-1									f2	1			0

Development Credits

DaRWIN
- Paul-André Duchesne
- Brice Maron
- Marielle Adam
- Yann Chambert
- Franck Theeten
- Jean-Marc Herpers

Geo Tools
Taxo Tools
- Franck Theeten

ORTHANC
- Sébastien Jodogne

3DHOP integration
- Jean-Marc Herpers

Optica viewers
- Yann Pollet

ORTHANC/DaRWIN integration
- Yann Pollet
- Franck Theeten

natural sciences .be

AFRICA museum

UCLouvain

Patrick Semal

Scientific Heritage Service, RBINS

THANK YOU

Be.DiSSCo-FED