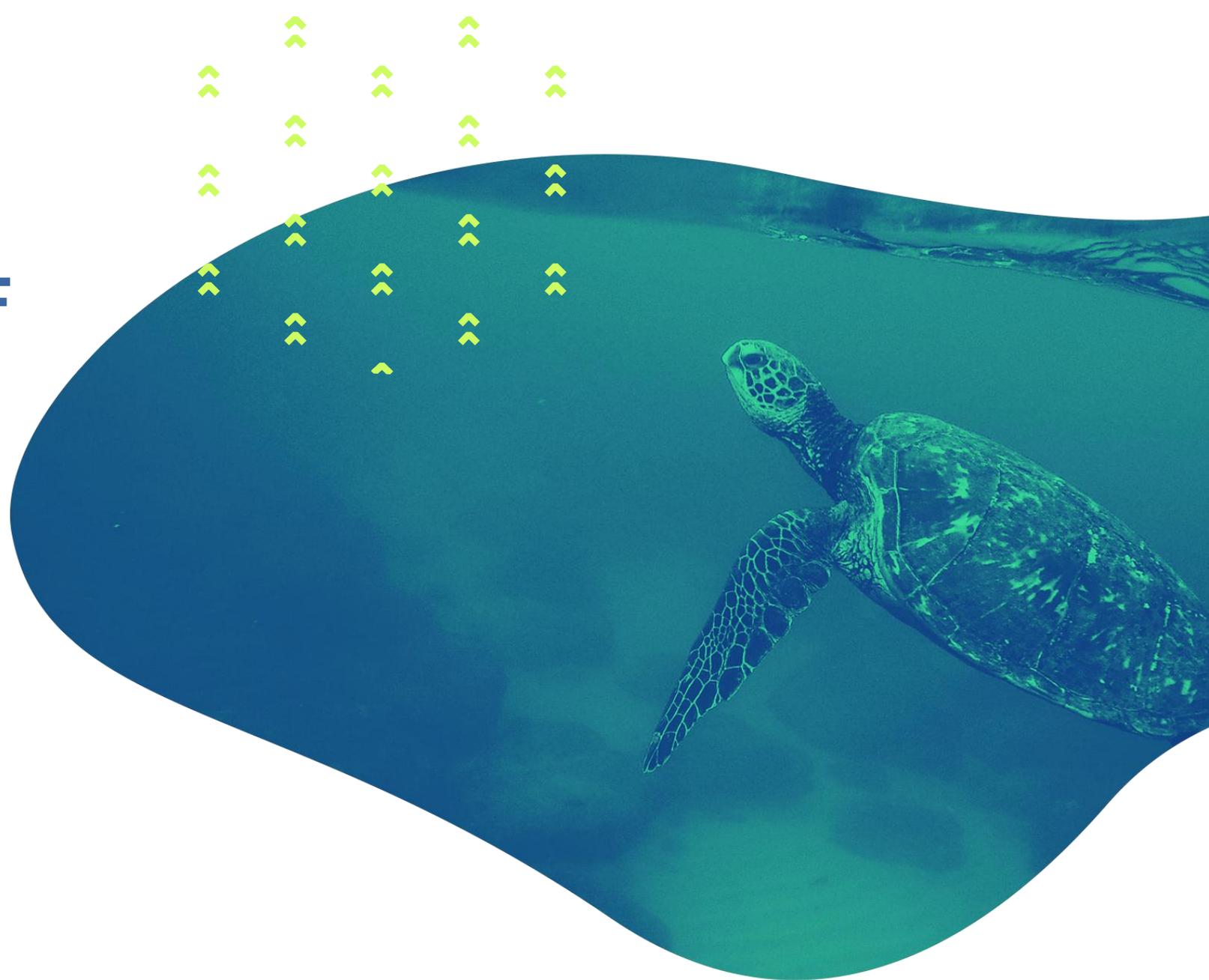


CESP Project: Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain

CESP Project: Strengthening Zimbabwe's
GBIF node through collaboration with GBIF
Spain

Katia Cezón
katia@gbif.es

Gbif, Es



CESP Project: Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain



Structure of this session

- Search by taxonomy
- Search occurrences by using filters
- Download and visualization
- Spatial searches (polygons, filters)



www.gbif.org



The background features a dense pattern of bright green fern fronds against a dark blue gradient. The text is centered in the middle of the image.

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1.388.349.397

Datasets

50.729

Publishing institutions

1569



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



Call for nominations to the 2020 GBIF Young Researchers Award



Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"



Global analysis of potential marginal land resources of cassava



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katia

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CONTINUE WITH ORCID

Occurrence records
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Datasets
50.729

Publishing institutions
1569

Per
42



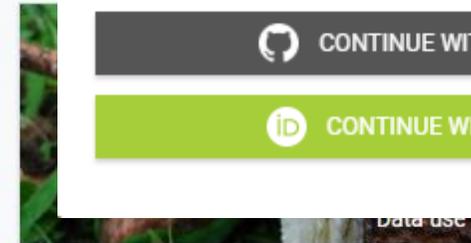
2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



Call for nominations to the 2020 GBIF Young Researchers Award



Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"



Global analysis of potential marginal land resources of cassava

Bolitoglossa platyductyla observed by

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COUNTRY
Spain

EMAIL

USERNAME
katia

PASSWORD

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OR

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 SIGN UP WITH FACEBOOK

 SIGN UP WITH GITHUB



LOGIN REGISTER

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SIGN UP



Account created

You have been sent an email with a verification link to ensure it is your mail. Welcome to GBIF



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Account creation on GBIF.org

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helpdesk@gbif.org
Mié 26/02/2020 10:50
Usted

Hello Katia,

Thanks for registering at GBIF.org. Please confirm your GBIF account by clicking the following link:
<https://www.gbif.org/user/confirm?username=akiesta&code=18a6bb64-53e4-475e-a29e-01486f1a2a4c>

The GBIF Secretariat

Account creation on GBIF.org



katia
Katia Cezón

PROFILE **DOWNLOADS** LOGOUT

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DOI 10.15468/dl.aatf5f

Country or area Guatemala

DOI 10.15468/dl.djt32h

Date: 23 July 2018

Occurrences: 4,016

Involved datasets: 6

And

Country or area Spain

Scientific name Aedes albopictus Skuse, 1894

RERUN QUERY SHOW

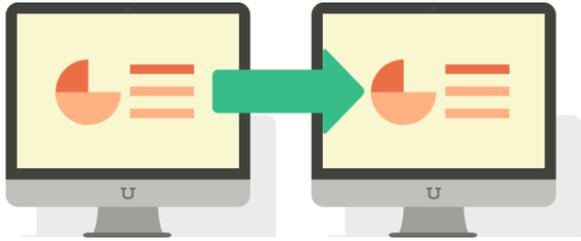
Allows you to keep track of all your downloads

USE CASE 2: Account creation on GBIF.org



Work materials

The workshop agenda and materials are online accessible at the following link:



<https://bit.ly/3ammBiY>





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Search bar

Perform any free word, the search will return results from species, occurrence data, datasets, publishers or resources.

Occurrence records
1.388.349.397

Datasets
50.729

Publishing institutions
1569



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



Call for nominations to the 2020 GBIF Young Researchers Award



Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"



Global analysis of potential marginal land resources of cassava

The background of the image is a close-up, top-down view of a pine tree's branches, showing the characteristic clusters of needles. The entire image is overlaid with a semi-transparent blue color, creating a monochromatic blue-green aesthetic. The text 'Explore Taxonomy' is centered horizontally and vertically in a white, bold, sans-serif font.

Explore Taxonomy

A close-up photograph of a gazelle's head, showing its large, upright ears and brown fur. The gazelle is looking directly at the camera. In the lower-left corner, there is a solid blue circle containing the word "Aedes" in white, italicized font. The background is a blurred green field.

Aedes



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Aedes

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Bolitoglossa platydictyla observed by Juan M. Diaz near Veracruz, Mexico. Photo via iNaturalist—licensed under CC BY-NC 4.0.

Occurrence records
1.388.349.397

Datasets
50.729

Publishing institutions
1569

Peer-reviewed papers using data
4290



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



Call for nominations to the 2020 GBIF Young Researchers Award



Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"



Global analysis of potential marginal land resources of cassava



Species



SEARCH SPECIES | 1,208 RESULTS

Aedes



SIMPLE

ADVANCED

You are doing a free text search for 'Aedes'

Limit search to

Rank



Status



Higher taxon



Issues and flags



You are searching for species in the GBIF taxonomy.

[SEARCH ACROSS CHECKLISTS](#)

Aedes Meigen, 1818

Genus

Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332.

Classification : Animalia > Arthropoda > Insecta > Diptera > Culicidae

Accepted Genus 386.647 occurrences



Aedes subsimilis

Species

Classification : Animalia > Arthropoda > Insecta > Diptera > Culicidae > Aedes

Accepted Species 2 occurrences

Blastobasis aedes

Species

Classification : Animalia > Arthropoda > Insecta > Lepidoptera > Blastobasidae > Blastobasis

... Diagnosis. — Blastobasis *aedes* is similar to ...

Accepted Species 1 occurrence





Species

SEARCH SPECIES | 1,208 RESULTS

Aedes

You are doing a free text search for 'Aedes'

Limit search to

Rank

- Species 1176
- Genus 16
- Subspecies 14
- Family 2

Status

- Accepted 995
- Synonym 190
- Homotypic synonym 13
- Doubtful 9
- Heterotypic synonym 1

Higher taxon

Issues and flags

Text search box

Aedes Meigen, 1818

Genus

Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332.
 Classification : Animalia > Arthropoda > Insecta > Diptera > Culicidae



386,647 occurrences

Filters area to narrow the search

Species

Arthropoda > Insecta > Diptera > Culicidae > Aedes

occurrences

Blastobasis aedes

Species

Classification : Animalia > Arthropoda > Insecta > Lepidoptera > Blastobasidae > Blastobasis

... Diagnosis. — Blastobasis *aedes* is similar to ...



Accepted Species 1 occurrence



Classification

Kingdom [Animalia](#)

Phylum [Arthropoda](#)

Class [Insecta](#)

Order [Diptera](#)

Family [Culicidae](#)

Genus [Aedes Meigen, 1818](#)

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cometius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
- = *Xyela* Reinert, Harbach & Kitching,

Species [Aedes adami](#) Geoffroy, 1971

Species [Aedes adenensis](#) Edwards, 1941

Species [Aedes adersi](#) (Edwards, 1917)

Species [Aedes aegypti](#) (Linnaeus, 1762)

Species [Aedes aenigmaticus](#) Cerqueira & Costa, 1946

Species [Aedes aerarius](#) McIntosh, 1975

Species [Aedes africanus](#) (Theobald, 1901)

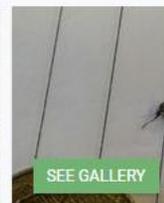
GENUS | ACCEPTED

Aedes Meigen, 1818

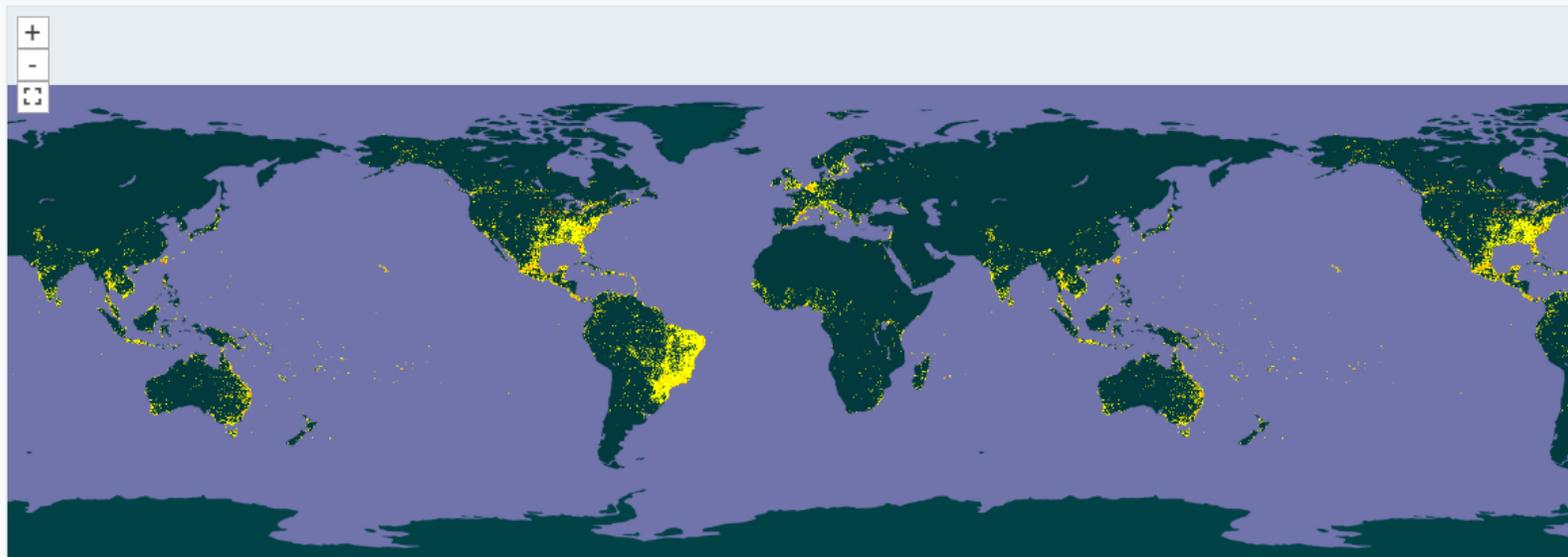
Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332. source: Catalogue of Life

[TREATMENT](#)[METRICS](#)[REFERENCE TAXON](#)[386,647 OCCURRENCES](#)[947 SPECIES](#)[PHOTOS WITH IMAGES](#)

Hierarchical Classification and their synonyms

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1799 - 2020

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Classification

Kingdom [Animalia](#)

Phylum [Arthropoda](#)

Class [Insecta](#)

Order [Diptera](#)

Family [Culicidae](#)

Genus [Aedes Meigen, 1818](#)

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cornetius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
- = *Xylele* Reinert, Harbach & Kitching,

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Species [Aedes adenensis](#) Edwards, 1941

Species [Aedes adersi](#) (Edwards, 1917)

Species [Aedes aegypti](#) (Linnaeus, 1762)

Species [Aedes aenigmaticus](#) Cerqueira & Costa, 1946

Species [Aedes aerarius](#) McIntosh, 1975

Species [Aedes africanus](#) (Theobald, 1901)

GENUS | ACCEPTED

Aedes Meigen, 1818

Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen... Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332.
source: Catalogue of Life

[OVERVIEW](#) | [1 TREATMENT](#) | [METRICS](#) | [REFERENCE TAXON](#)

Number of occurrences & number of species

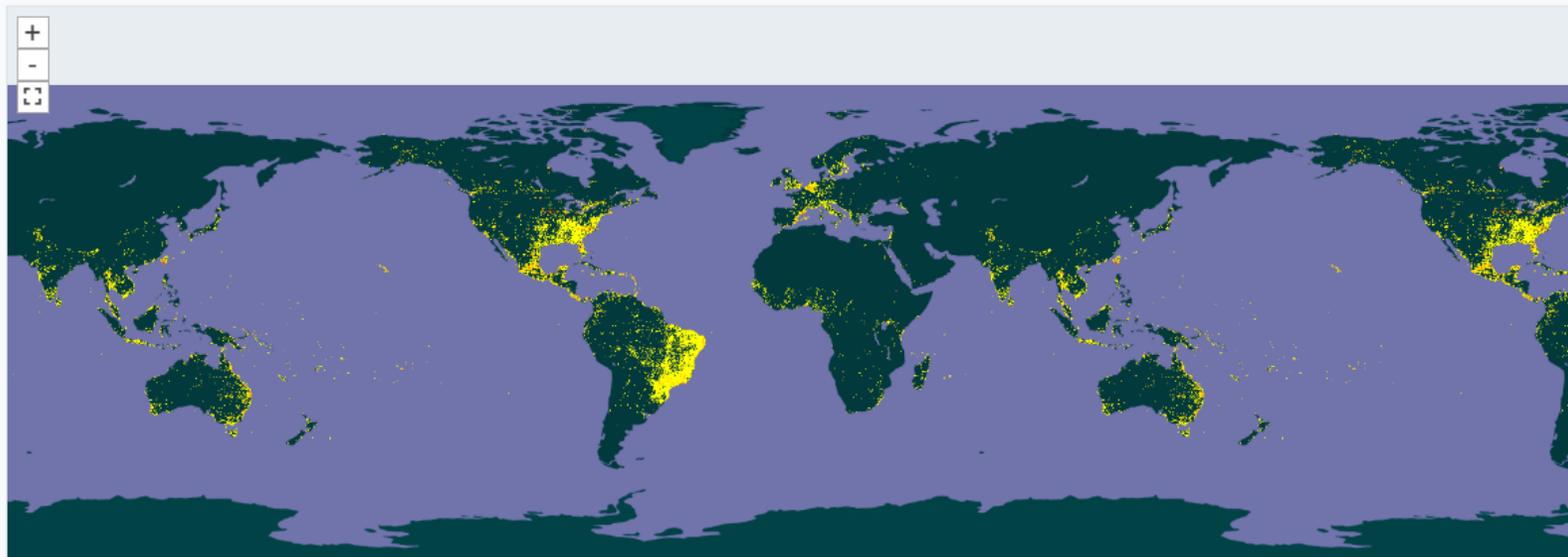
386,647 OCCURRENCES | 947 SPECIES

8,570 OCCURRENCES WITH IMAGES



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Any year 1799 - 2020

EXPLORE



Classification

Kingdom **Animalia**

Phylum **Arthropoda**

Class **Insecta**

Order **Diptera**

Family **Culicidae**

Genus **Aedes Meigen, 1818**

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cornetius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
- = *Xylele* Reinert, Harbach & Kitching,

Species *Aedes adami* Geoffroy, 1971

Species *Aedes adenensis* Edwards, 1941

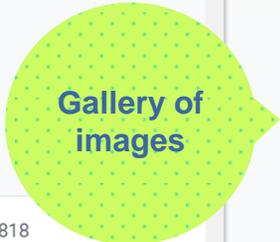
Species *Aedes adersi* (Edwards, 1917)

Species *Aedes aegypti* (Linnaeus, 1762)

Species *Aedes aenigmaticus* Cerqueira & Costa, 1946

Species *Aedes aerarius* McIntosh, 1975

Species *Aedes africanus* (Theobald, 1901)



GENUS | ACCEPTED

Aedes Meigen, 1818

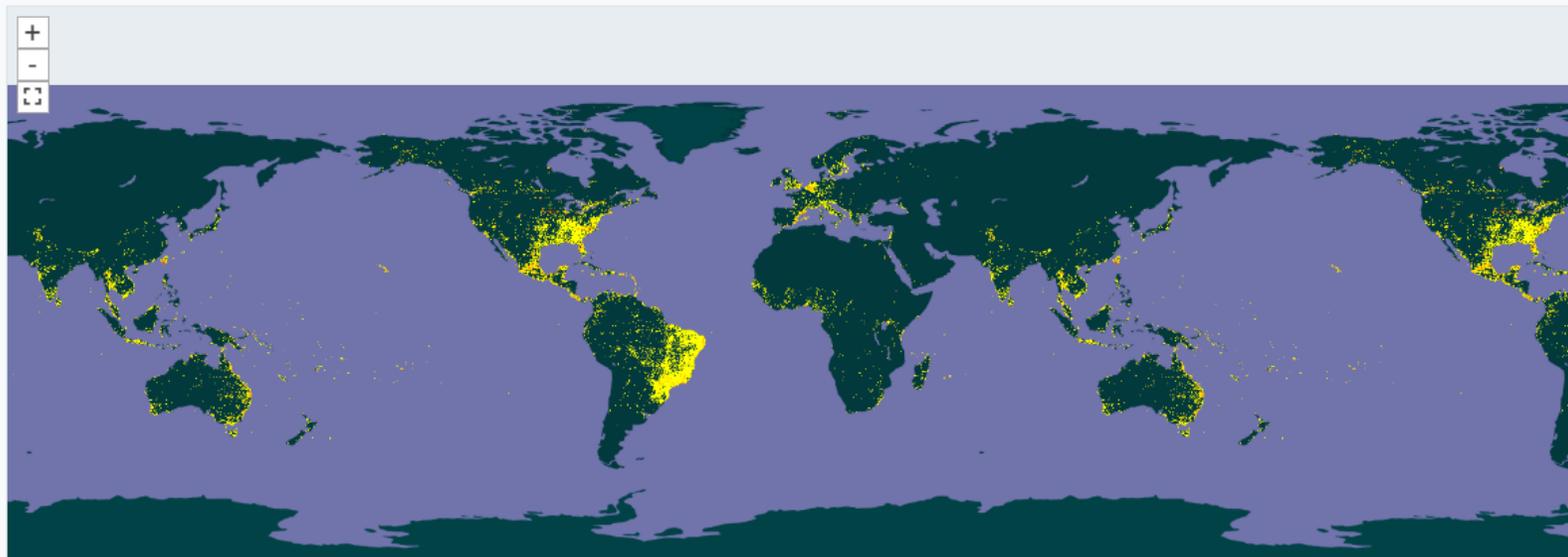
Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332. source: Catalogue of Life

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Any year

1799 - 2020

[EXPLORE](#)



Classification

Kingdom **Animalia**

Phylum **Arthropoda**

Class **Insecta**

Order **Diptera**

Family **Culicidae**

Genus **Aedes Meigen, 1818**

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cornetius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
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Species *Aedes adami* Geoffroy, 1971

Species *Aedes adenensis* Edwards, 1941

Species *Aedes adersi* (Edwards, 1917)

Species *Aedes aegypti* (Linnaeus, 1762)

Species *Aedes aenigmaticus* Cerqueira & Costa, 1946

Species *Aedes aerarius* McIntosh, 1975

Species *Aedes africanus* (Theobald, 1901)

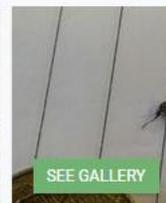
GENUS | ACCEPTED

Aedes Meigen, 1818

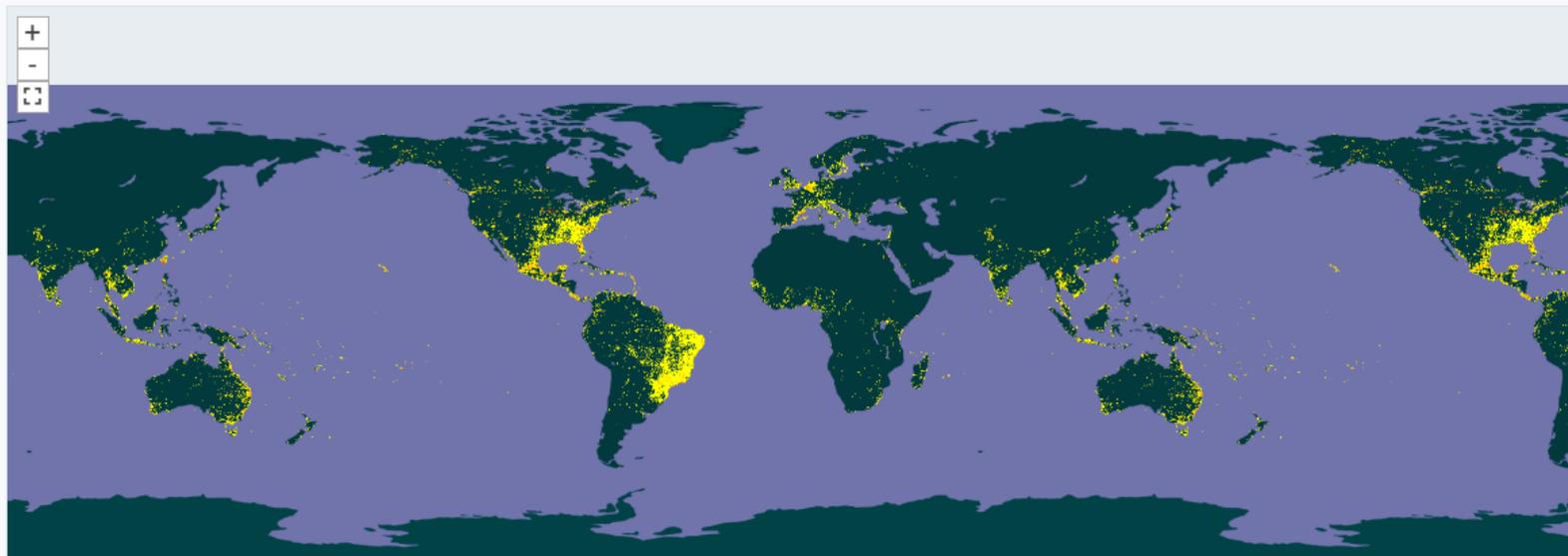
Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332. source: Catalogue of Life

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Any year

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Map with georeferenced records



Classification

- Kingdom **Animalia**
- Phylum **Arthropoda**
- Class **Insecta**
- Order **Diptera**
- Family **Culicidae**

- Genus **Aedes Meigen, 1818**
 - = *Bohartius* Reinert, Harbach & Kitching, 2009
 - = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
 - = *Cornetius* Huang, 2005
 - = *Heteraspidion* Reinert, Harbach & Kitching, 2009
 - = *Huangmyia* Reinert, Harbach & Kitching, 2009
 - = *Mukwaya* Reinert, Harbach & Kitching, 2009
 - = *Xyele* Reinert, Harbach & Kitching,

- Species *Aedes adami* Geoffroy, 1971
- Species *Aedes adenensis* Edwards, 1941
- Species *Aedes adersi* (Edwards, 1917)
- Species *Aedes aegypti* (Linnaeus, 1762)
- Species *Aedes aenigmaticus* Cerqueira & Costa, 1946
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- Species *Aedes africanus* (Theobald, 1901)

GENUS | ACCEPTED

Aedes Meigen, 1818

Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäi... mann, Aachen. Vol. T.1: i-xxxvi; 1-332.
 source: Catalogue of Life

OVERVIEW | 1 TREATMENT | METRICS | REFERENCE TAXON

386,647 OCCURRENCES | 947 SPECIES

IUCN STATUS

Not Evaluated

Source: IUCN

VERNACULAR NAMES

ヤブカ In Japanese
 source: [World Register of Marine Species](#)

APPEARS IN 35 CHECKLIST DATASETS:

Catalogue of Life
 As [Aedes](#)

World Register of Marine Species
 As [Aedes Meigen, 1818](#)

Integrated Taxonomic Information System (ITIS)
 As [Aedes Meigen, 1818](#)

Global Names Usage Bank
 As [Aedes](#)

APPEARS IN 285 OCCURRENCE DATASETS:

VectorBase (Bioinformatics Resource for Invertebrate Vectors of Human Pathogens)
[View occurrences](#)

Mosquito Occurrence Dataset
[View occurrences](#)

Global compendium of *Aedes albopictus* occurrence
[View occurrences](#)

International Barcode of Life project (iBOL)
[View occurrences](#)





Classification

Select a species

Kingdom Animalia

Phylum Arthropoda

Class Insecta

Order Diptera

Family Culicidae

Genus *Aedes* Meigen, 1818

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cornetius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
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GENUS | ACCEPTED

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OVERVIEW | 1 TREATMENT | METRICS | REFERENCE TAXON

386,647 OCCURRENCES

947 SPECIES

Keys to the adult females and fourth-instar larvae of the mosquitoes of Iran (Diptera: Culicidae)

In: Azari-Hamidian, Shahyad, Harbach, Ralf E. (2009): Keys to the adult females and fourth-instar larvae of the mosquitoes of Iran (Diptera: Culicidae). Zootaxa 2078: 1-33, DOI: 10.5281/zenodo.187282

Mediated through: Plazi.org taxonomic treatments database

Key to subgenera, species, and subspecies of genera *Aedes* and *Ochlerotatus* : fourth-instar larvae

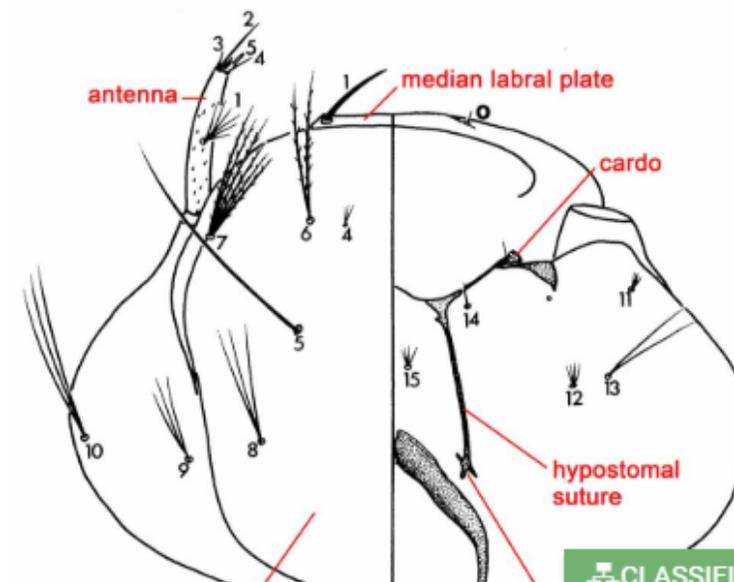
(larva of *Oc. chelli* is unknown) (key characters are illustrated in Figs 5 and 6)

1 . Siphon without acus (auricle) (with indistinct acus in *Ae. vittatus*) [antenna smooth or very sparsely spiculate; seta 1 -A (antennal tuft) with at most 4 branches; seta 12 -I absent]

..... 2

- Siphon with well-developed

FIGURES





Classification

Select a species

Kingdom Animalia

Phylum Arthropoda

Class Insecta

Order Diptera

Family Culicidae

Genus *Aedes* Meigen, 1818

- = *Bohartius* Reinert, Harbach & Kitching, 2009
- = *Coetzeemyia* Huang, Mathis & Wilkerson, 2010
- = *Cornetius* Huang, 2005
- = *Heteraspidion* Reinert, Harbach & Kitching, 2009
- = *Huangmyia* Reinert, Harbach & Kitching, 2009
- = *Mukwaya* Reinert, Harbach & Kitching, 2009
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Species *Aedes aenigmaticus* Cerqueira & Costa, 1946

Species *Aedes aerarius* McIntosh, 1975

Species *Aedes africanus* (Theobald, 1901)

GENUS | ACCEPTED

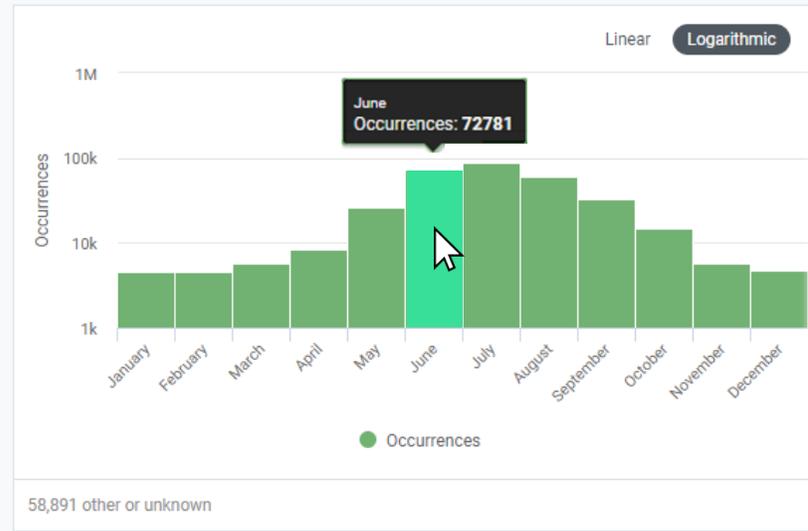
Aedes Meigen, 1818

Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332. source: Catalogue of Life

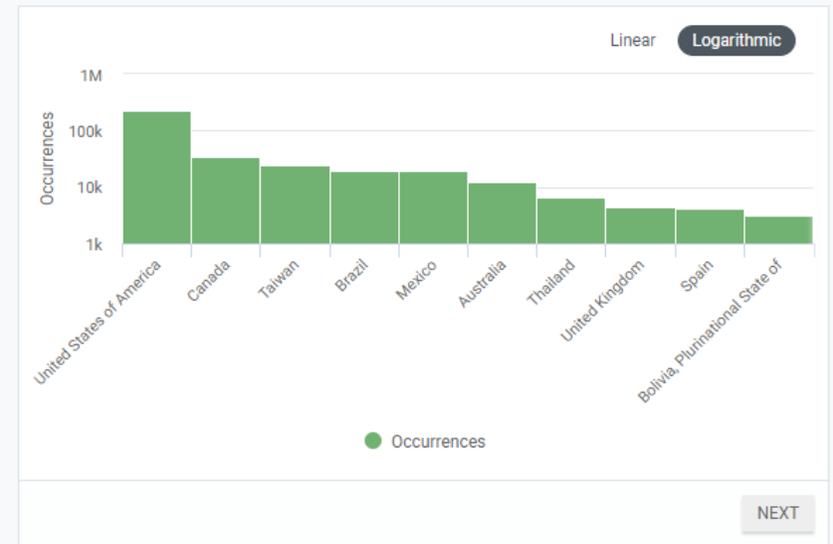
OVERVIEW 1 TREATMENT METRICS REFERENCE TAXON

388,566 OCCURRENCES 947 SPECIES

OCCURRENCES PER MONTH



OCCURRENCES PER COUNTRY OR AREA



OCCURRENCES PER YEAR



OCCURRENCES PER DATASET

| Dataset | Count |
|---|---------|
| VectorBase (Bioinformatics Resource for Invertebra... | 203,143 |
| Mosquito Occurrence Dataset | 23,219 |
| Global compendium of <i>Aedes albopictus</i> occurrence | 22,137 |
| International Barcode of Life project (IBOL) | 20,208 |
| Global compendium of <i>Aedes aegypti</i> occurrence | 19,929 |
| Fiocruz/CMN - Coleção de Mosquitos Neotropicais | 12,965 |

USE CASE 3: Taxonomic search





Explore occurrences

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[WHAT IS GBIF?](#)
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Bolitoglossa platydactyla observed by Juan M. Diaz near Veracruz, Mexico. Photo via iNaturalist—licensed under CC BY-NC 4.0.

Occurrence records
1.388.349.397

Datasets
50.729

Publishing institutions
1569

Peer-reviewed papers using data
4290



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



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Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"



Global analysis of potential marginal land resources of cassava



Occurrences



SEARCH OCCURRENCES | 1,388,045,847 RESULTS

All records

Search all fields

**Simple**

Advanced

License



Scientific name



Basis of record



Location



Year



Month



Dataset



Country or area



Continent



Issues and flags



Media type



Publisher



Institution code



Collection code



TABLE

GALLERY

MAP

TAXONOMY

METRICS

↓ DOWNLOAD



Scientific name

Country or area

Coordinates

Month & year

Basis of record

Dataset

Asplenium radicans L.

Brazil

25.2S, 50.0W

2020 January

Preserved specimen

[UPCB - Herbário do Depart](#)*Hypoxylon cercidicola* (Berk. & M.A.Curtis e...

Austria

48.4N, 16.2E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Nemania serpens* (Pers.) Gray, 1821

Austria

48.4N, 16.2E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Hemitrichia intorta* (Lister) Lister

Austria

48.2N, 16.4E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Melithreptus gularis* (Gould, 1837)

Australia

35.0S, 138.6E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Melithreptus gularis* (Gould, 1837)

Australia

35.0S, 138.6E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Leporillus* Thomas, 1906

Australia

31.2S, 141.5E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Leporillus* Thomas, 1906

Australia

31.0S, 125.3E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.4S, 131.7E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Dasyercus cristicauda* (Krefft, 1867)

Australia

30.5S, 131.8E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.1S, 130.1E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.2S, 129.1E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)● *Dasyercus blythi*

Australia

30.5S, 131.8E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)



Occurrences



SEARCH OCCURRENCES

RESULTS

[TABLE](#)[GALLERY](#)[MAP](#)[TAXONOMY](#)[METRICS](#)[DOWNLOAD](#)

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License



Scientific name



Basis of record



Location



Year



Month



Dataset



Country or area



Continent



Issues and flags



Media type



Publisher



Institution code



Collection code



Scientific name

Country or area

Coordinate

Date

Basis of record

Dataset

Asplenium radicans L.

Brazil

25.2S, 50.0W

2020 January

Preserved specimen

[UPCB - Herbário do Depart](#)*Hypoxylon cercidicola* (Berk. & M.A.Curtis e...

Austria

48.4N, 16.2E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Nemania serpens* (Pers.) Gray, 1821

Austria

48.4N, 16.2E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Hemitrichia intorta* (Lister) Lister

Austria

48.2N, 16.4E

2020 January

Preserved specimen

[University of Vienna, Institu](#)*Melithreptus gularis* (Gould, 1837)

Australia

35.0S, 138.6E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Melithreptus gularis* (Gould, 1837)

Australia

35.0S, 138.6E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Leporillus* Thomas, 1906

Australia

31.2S, 141.5E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Leporillus* Thomas, 1906

Australia

31.0S, 125.3E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.4S, 131.7E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Dasyercus cristicauda* (Krefft, 1867)

Australia

30.5S, 131.8E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.1S, 130.1E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)*Macroderma gigas* (Dobson, 1880)

Australia

26.2S, 129.1E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)● *Dasyercus blythi*

Australia

30.5S, 131.8E

2020 January

Human observation

[SA Fauna \(BDBSA\)](#)



Occurrences

SEARCH OCCURRENCES | 1,388,045,847 RESULTS

Search all fields

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License

Scientific name

Basis of record

Location

Year

Month

Dataset

Country or area

Continent

Issues and flags

Media type

Publisher

Institution code

Collection code

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

| Scientific name | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|---|-----------------|---------------|--------------|--------------------|---|
| <i>Asplenium radicans</i> L. | Brazil | 25.2S, 50.0W | 2020 January | Preserved specimen | UPCB - Herbário do Depart |
| <i>Hypoxylon cercidicola</i> (Berk. & M.A.Curtis e... | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Institu |
| <i>Nemania serpens</i> (Pers.) Gray, 1821 | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Institu |
| <i>Hemitria</i> ... | Austria | 48.2N, 16.4E | 2020 January | Preserved specimen | University of Vienna, Institu |
| <i>Melith</i> ... | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Melithrepta</i> ... (1837) | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.2S, 141.5E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.0S, 125.3E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.4S, 131.7E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Dasyercus cristicauda</i> (Krefft, 1867) | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.1S, 130.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.2S, 129.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| • <i>Dasyercus blythi</i> | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |





Occurrences



SEARCH OCCURRENCES | 1,388,045,847 RESULTS

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TAXONOMY

METRICS

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| | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|---|-----------------|---------------|--------------|--------------------|--|
| <i>Asplenium taucans</i> L. | Brazil | 25.2S, 50.0W | 2020 January | Preserved specimen | UPCB - Herbário do Depart |
| <i>Hypoxylon cercidicola</i> (Berk. & M.A.Curtis e... | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Instit |
| <i>Nemania serpens</i> (Pers.) Gray, 1821 | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Instit |
| <i>Hemitrichia intorta</i> (Lister) Lister | Austria | 48.2N, 16.4E | 2020 January | Preserved specimen | University of Vienna, Instit |
| <i>Melithreptus gularis</i> (Gould, 1837) | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Melithreptus gularis</i> (Gould, 1837) | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.2S, 141.5E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.0S, 125.3E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.4S, 131.7E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Dasyercus cristicauda</i> (Krefft, 1867) | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.1S, 130.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.2S, 129.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| • <i>Dasyercus blythi</i> | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |



Occurrences

SEARCH OCCURRENCES | 1,389,128,202 RESULTS

- Search all fields
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- Basis of record
- Location
- Year
- Month
- Dataset
- Country or area
- Continent
- Issues and flags
- Media type
- Publisher
- Institution code
- Collection code
- Catalog number

TABLE | GALLERY | MAP | TAXONOMY | METRICS | DOWNLOAD

| Scientific name | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|---|-----------------|---------------|--------------|--------------------|---------------------------------------|
| <i>Asplenium radicans</i> L. | Brazil | 25.2S, 50.0W | 2020 January | Preserved specimen | UPCB - Herbário do Departamento |
| <i>Hypoxylon cercidicola</i> (Berk. & M.A.Curtis e... | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Institute for B |
| <i>Nemania serpens</i> (Pers.) Gray, 1821 | Austria | 48.4N, 16.2E | 2020 January | Preserved specimen | University of Vienna, Institute for B |
| <i>Hemitrichia intorta</i> (Lister) Lister | Austria | 48.2N, 16.4E | 2020 January | Preserved specimen | University of Vienna, Institute for B |
| <i>Melithreptus gularis</i> (Gould, 1837) | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Melithreptus gularis</i> (Gould, 1837) | Australia | 35.0S, 138.6E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.2S, 141.5E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Leporillus</i> Thomas, 1906 | Australia | 31.0S, 125.3E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.4S, 131.7E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Dasyercus cristicauda</i> (Krefft, 1867) | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.1S, 130.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| <i>Macroderma gigas</i> (Dobson, 1880) | Australia | 26.2S, 129.1E | 2020 January | Human observation | SA Fauna (BDBSA) |
| • <i>Dasyercus blythi</i> | Australia | 30.5S, 131.8E | 2020 January | Human observation | SA Fauna (BDBSA) |



Occurrences  1

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Scientific name 

Aedes Meigen, 1818

Basis of record 

Location 

Year 

Month 

Dataset 

Country or area 

Continent 

Issues and flags 

Media type 

Publisher 

Institution code 

Collection code 

SEARCH OCCURRENCES | 388,566 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS  DOWNLOAD

|  | Scientific name | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|---|---|--------------------------|---------------|--------------|-------------------|--|
| | <i>Aedes albopictus</i> Skuse, 1894 | Honduras | 15.7N, 87.5W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes aegypti</i> (Linnaeus, 1762) | Colombia | 3.4N, 76.5W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | Australia | 21.2S, 148.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 37.6S, 175.9E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | Australia | 35.1S, 138.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 36.7S, 174.7E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes vigilax</i> (Skuse, 1889) | Australia | 34.6S, 138.6E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes albopictus</i> Skuse, 1894 | United States of America | 21.1N, 157.0W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes infirmatus</i> Dyar & Knab, 1906 | United States of America | 29.6N, 82.2W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 43.6S, 172.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes albopictus</i> Skuse, 1894 | Taiwan | 24.6N, 121.8E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes aegypti</i> (Linnaeus, 1762) | Brazil | 22.9S, 43.2W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| | <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 36.9S, 174.7E | 2020 January | Human observation | iNaturalist Research-grade Observa |

Filters



Which is the current distribution of *Aedes albopictus* and *A. aegypti* in Madagascar?



Occurrences  1

SEARCH OCCURRENCES | 388,566 RESULTS

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Scientific name ▲

Aedes Meigen, 1818

Search

Explore Major groups

- Animalia 388,558
- Arthropoda 388,558
- Insecta 388,558
- Diptera 388,558
 - Culicidae 388,564
 - Aedes 388,564
 - Aedes vexans 132,829
 - Aedes aegypti 41,998
 - Aedes albopictus 41,196
 - Aedes trivittatus 20,339
 - Aedes taeniorhynchus 9,573
 - Aedes dorsalis 9,128
 - Aedes triseriatus 7,764
 - Aedes infirmatus 7,557

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

| Scientific name | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|---|--------------------------|---------------|--------------|-------------------|--|
| <i>Aedes albopictus</i> Skuse, 1894 | Honduras | 15.7N, 87.5W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes aegypti</i> (Linnaeus, 1762) | Colombia | 3.4N, 76.5W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | Australia | 21.2S, 148.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 37.6S, 175.9E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | Australia | 35.1S, 138.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 36.7S, 174.7E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes vigilax</i> (Skuse, 1889) | Australia | 34.6S, 138.6E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes albopictus</i> Skuse, 1894 | United States of America | 21.1N, 157.0W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes infirmatus</i> Dyar & Knab, 1906 | United States of America | 29.6N, 82.2W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 43.6S, 172.5E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes albopictus</i> Skuse, 1894 | Taiwan | 24.6N, 121.8E | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes aegypti</i> (Linnaeus, 1762) | Brazil | 22.9S, 43.2W | 2020 January | Human observation | iNaturalist Research-grade Observa |
| <i>Aedes notoscriptus</i> (Skues, 1889) | New Zealand | 36.9S, 174.7E | 2020 January | Human observation | iNaturalist Research-grade Observa |



Occurrences 3

SEARCH OCCURRENCES | 218 RESULTS

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Scientific name ▾

- Aedes albopictus* Skuse, 1894
- Aedes aegypti* (Linnaeus, 1762)

Basis of record ▾

Location ▾

Year ▾

Month ▾

Dataset ▾

Country or area ▾

- Madagascar 218

Search

- Taiwan 24.872
- Mexico 14.775
- United States of America 12.458
- Brazil 11.234
- Spain 4033
- Thailand 3262
- Indonesia 843
- India 730

| Scientific name | Country or area | Coordinates | Month & year | Basis of record | Dataset |
|-------------------------------------|-----------------|--------------|---------------|-------------------|--|
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 13.0S, 49.1E | 2018 February | Human observation | iNaturalist Research-gra |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 12.3S, 49.3E | 2018 February | Human observation | iNaturalist Research-gra |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.3S, 47.1E | 2010 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.2S, 49.4E | 2010 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.8S, 47.4E | 2010 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.8S, 47.4E | 2010 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.8S, 47.4E | 2009 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 18.8S, 47.4E | 2009 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 21.2S, 48.4E | 2009 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 15.7S, 46.3E | 2009 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 12.3S, 49.3E | 2009 January | Literature | Global compendium of A |
| <i>Aedes albopictus</i> Skuse, 1894 | Madagascar | 20.5S, 47.2E | 2009 January | Literature | Global compendium of A |



OCCURRENCE | 20 JANUARY 2020

Aedes aegypti (Linnaeus, 1762)

Yellowfever mosquito In English Observed in Brazil

Animalia > Arthropoda > Insecta > Diptera > Culicidae > *Aedes*

Species: *Aedes aegypti* (Linnaeus, 1762)

Location: Brazil

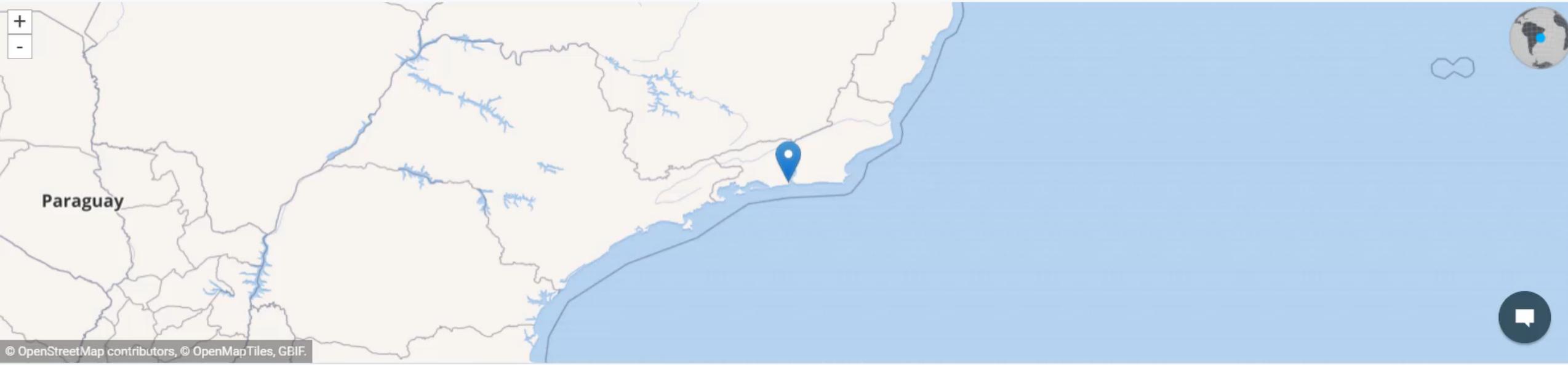
Basis of record: Human observation



Dataset: iNaturalist Research-grade Observations

Publisher: iNaturalist.org

Reference: <https://www.inaturalist.org/observations/37797131>





Occurrences

3

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Scientific name



Aedes albopictus Skuse, 1894

Aedes aegypti (Linnaeus, 1762)

Basis of record



Location



Year



Month



Dataset



Country or area



Madagascar

Continent



Issues and flags



Media type



Publisher



TABLE

GALLERY

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Aedes albopictus Skuse, 1894



Aedes albopictus Skuse, 1894



Occurrences



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Scientific name



Aedes albopictus Skuse, 1894

Aedes aegypti (Linnaeus, 1762)

Basis of record



Location



Year



Month



Dataset



Country or area



Madagascar

Continent



Issues and flags



Media type



Publisher



TABLE

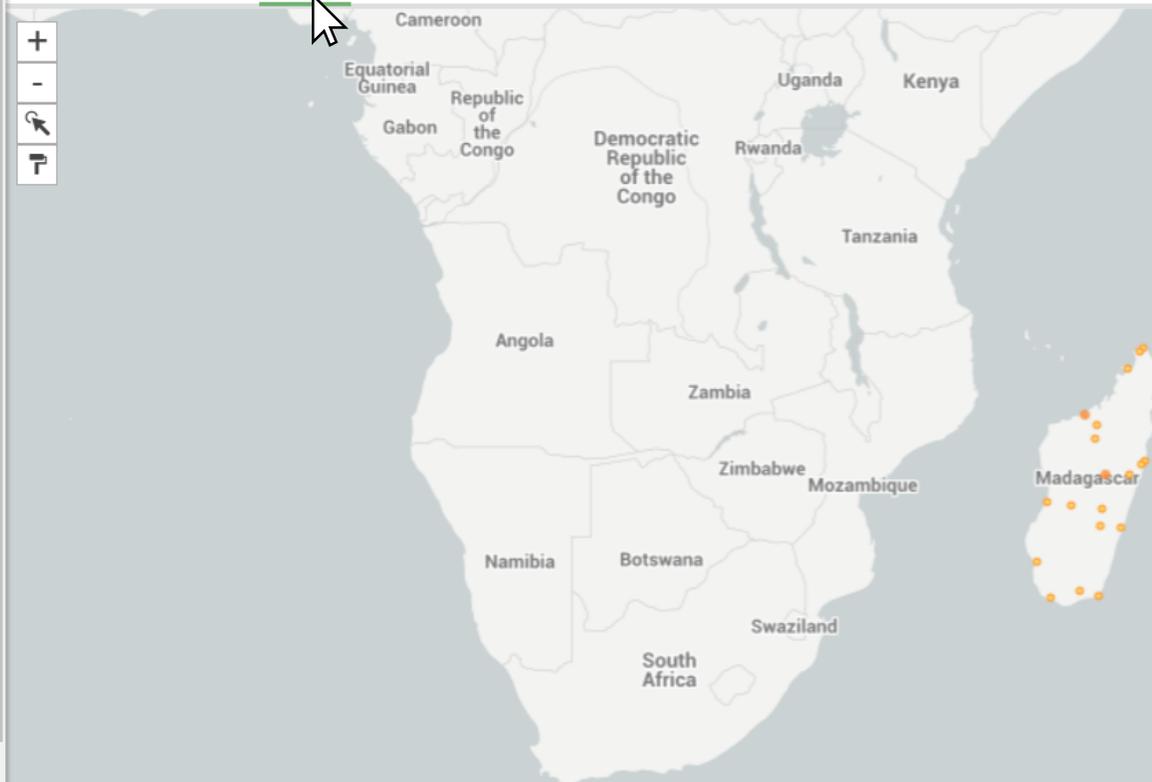
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Occurrences 3

SEARCH OCCURRENCES | 218 RESULTS

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Scientific name

Aedes albopictus Skuse, 1894

Aedes aegypti (Linnaeus, 1762)

Basis of record

Location

Year

Month

Dataset

Country or area

Madagascar

Continent

Issues and flags

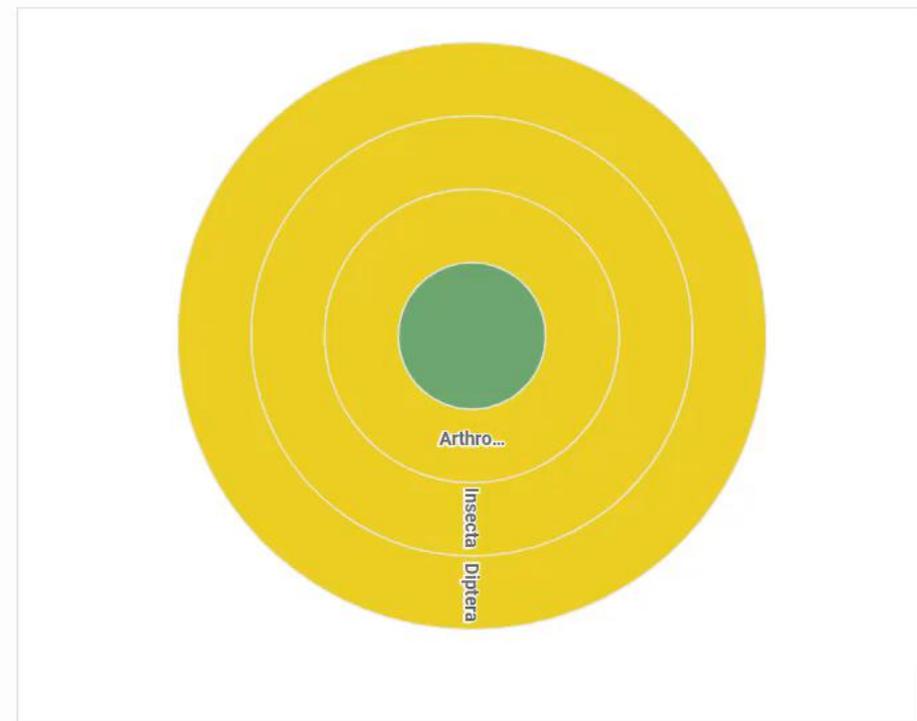
Media type

Publisher

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SPECIES

Group by Species

Occurrences 3

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Scientific name

- Aedes albopictus Skuse, 1894
- Aedes aegypti (Linnaeus, 1762)

Basis of record

Location

Year

Month

Dataset

Country or area

- Madagascar

Continent

Issues and flags

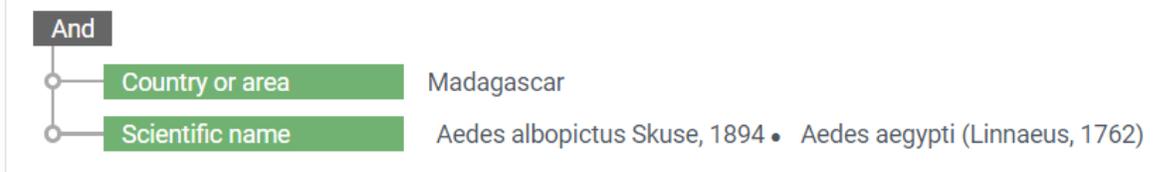
Media type

Publisher

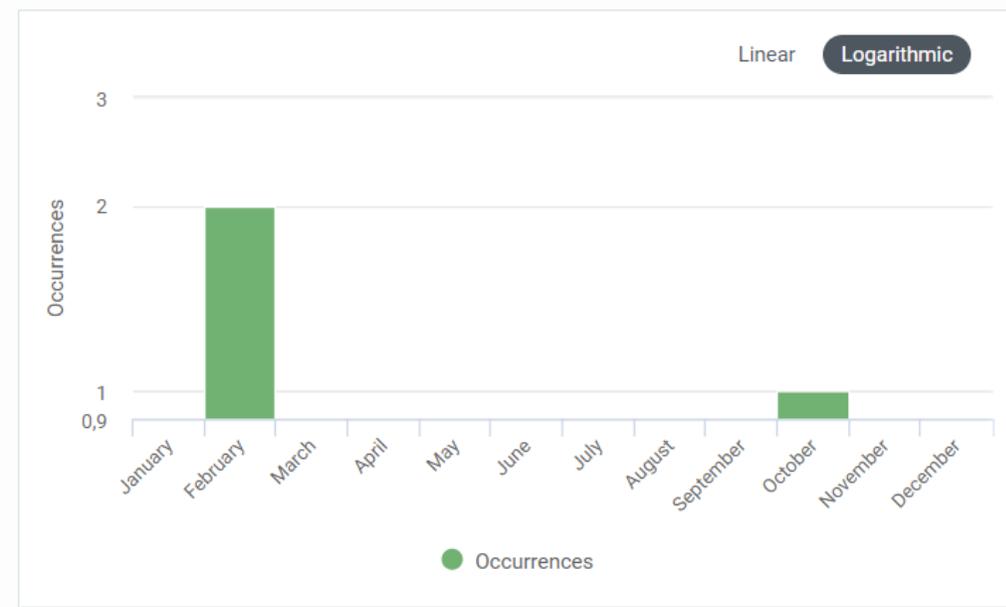
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Scientific name



Aedes albopictus Skuse, 1894

Aedes aegypti (Linnaeus, 1762)

Basis of record



Location



Year



Month



Dataset



Country or area



Madagascar

Continent



Issues and flags



Media type



Publisher



TABLE

GALLERY

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Scientific name ▾

- Aedes albopictus Skuse, 1894
- Aedes aegypti (Linnaeus, 1762)

Basis of record ▾

Location ▾

Year ▾

Month ▾

Dataset ▾

Country or area ▾

- Madagascar

Continent ▾

Issues and flags ▾

Media type ▾

Publisher ▾

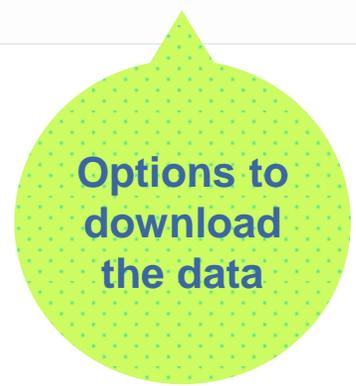
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| | Raw data | Interpreted data | Multimedia | Coordinates | Format | Estimated data size |
|------------------------------|----------|------------------|------------|------------------|--------------------------------|--|
| ↓ SIMPLE | X | ✓ | X | ✓ (if available) | Tab-delimited CSV [?] | 99 KB (15 KB zipped for download) |
| ↓ DARWIN CORE ARCHIVE | ✓ | ✓ | ✓ (links) | ✓ (if available) | Tab-delimited CSV [?] | 251 KB (37 KB zipped for download) |
| ↓ SPECIES LIST | X | ✓ | X | X | Tab-delimited CSV [?] | |

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With coordinates: 49 %
With taxon match: 100 %

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Basis of record

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Including coordinates

Year

Month

Dataset

Country or area

Zimbabwe

Mozambique

Zambia

Continent

Issues and flags

Media type



DOWNLOAD REPORT

Total: 945.546
License: CC BY-NC 4.0
Year range: 1654–2020
With year: 95 %
With coordinates: 100 %
With taxon match: 99.9 %

Known issues

A part of the GBIF processing is to flag occurrences that have suspicious fields

| | | | | | | | | | |
|--------|----------------------------------|--------|----------------------------|--------|------------------------------------|--------|---------------------------------------|-----|------------------------|
| 52.958 | Country derived from coordinates | 37.619 | Taxon match higherrank | 26.147 | Coordinate precision invalid | 21.479 | Taxon match fuzzy | | |
| 14.555 | Recorded date invalid | 6667 | Basis of record invalid | 3554 | Recorded date mismatch | 3158 | Geodetic datum invalid | | |
| 2636 | Type status invalid | 2491 | Country invalid | 1219 | Taxon match none | 838 | Presumed negated latitude | 399 | Recorded date unlikely |
| 310 | Continent invalid | 196 | Presumed negated longitude | 179 | Coordinate reprojection suspicious | 175 | Coordinate uncertainty meters invalid | | |
| 112 | References uri invalid | 70 | Multimedia uri invalid | 46 | Elevation non numeric | 34 | Depth non numeric | | |
| 27 | Presumed swapped coordinate | 26 | Depth not metric | 26 | Elevation min/max swapped | 25 | Depth min/max swapped | | |
| 14 | Identified date unlikely | 6 | Individual count invalid | 4 | Country mismatch | 1 | Depth unlikely | | |

Fossils

There are fossils among your results. That can mean species occurrences at unexpected locations

Living specimens

Your search includes living specimens such as occurrences in botanical and zoological gardens.



Occurrences 3

Search all fields

Simple

Advanced

License

Scientific name

Aedes albopictus Skuse, 1894

Aedes aegypti (Linnaeus, 1762)

Basis of record

Location

Year

Month

Dataset

Country or area

Madagascar

Continent

Issues and flags

Media type

Publisher

SEARCH OCCURRENCES | 218 RESULTS

TABLE

GALLERY

MAP

TAXONOMY

METRICS

DOWNLOAD

DOWNLOAD OPTIONS

| | Raw data | Interpreted data | Multimedia | Coordinates | Format | Estimated data size |
|------------------------------|----------|------------------|------------|------------------|----------------------------------|--|
| ↓ SIMPLE | X | ✓ | X | ✓ (if available) | Tab-delimited CSV ? | 99 KB (15 KB zipped for download) |
| ↓ DARWIN CORE ARCHIVE | ✓ | ✓ | ✓ (links) | ✓ (if available) | Tab-delimited CSV ? | 251 KB (37 KB zipped for download) |
| ↓ SPECIES LIST | X | ✓ | X | X | Tab-delimited CSV ? | |

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Total: 218

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Year range: 1960–2018

With year: 33 %

With coordinates: 49 %

With taxon match: 100 %

Known issues

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Occurrences 3

SEARCH OCCURRENCES | 218 RESULTS

Search all fields

TABLE GALLERY MAP TAXONOMY METRICS **DOWNLOAD**

Simple Advanced

License

Scientific name

- Aedes albopictus Skuse, 1894
- Aedes aegypti (Linnaeus, 1762)

Basis of record

Location

Year

Month

Dataset

Country or area

- Madagascar

Continent

Issues and flags

Media type

Publisher

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Total: 218
License: CC BY-NC
Year range: 1
With year: 33
With coordinates: 33
With taxonomic information: 33

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Known issues

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vi. 28/02/2020 17:38

downloads@gbif.org

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Para katia@gbif.es

Hello katia,

Your download is available at the following address:

<http://api.gbif.org/v1/occurrence/download/request/0004740-200221144449610.zip>

When using this dataset please use the following citation:

GBIF.org (28 February 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.mviceo>

Download Information:

DOI: <https://doi.org/10.15468/dl.mviceo> (may take some hours before being active)

Creation Date: 16:36:50 28 February 2020

Records included: 596 records from 8 published datasets

Compressed data size: 17.7 kB

Download format: simple tab-separated values (TSV)

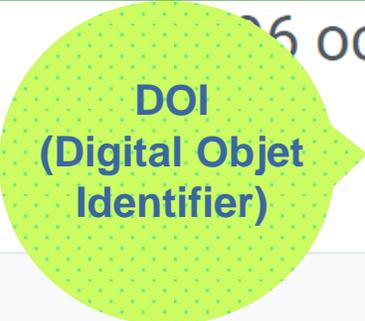
Filter used:

Country: Zimbabwe or Mozambique or Zambia

HasCoordinate: true

TaxonKey: Lantana camara L.

HasGeospatialIssue: false



26 occurrences downloaded

DOI 10.15468/dl.mviceo

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File: 18 KB Simple

Involved datasets: 8

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API

And

- Country or area: Zimbabwe • Mozambique • Zambia
- Has coordinate: true
- Scientific name: Lantana camara L.
- Has geospatial issue: false

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- They allow other people to **access exactly the same dataset** that you downloaded.
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DOI**

Acoustic profiling of Orthoptera: present state and future needs

KLAUS RIEDE¹¹ Zoological Research Museum Alexander Koenig, Adenauerallee 160, D-53113, Bonn, Germany.

Corresponding author: Klaus Riede (k.riede@leibniz-zfmk.de)

Academic editor: Diptarup Nandi | Received 17 January 2018 | Accepted 29 November 2018 | Published 10 December 2018

<http://zoobank.org/483C0E4D-5C7E-4503-81B4-ABAA9600DB49>Citation: Riede K (2018) Acoustic profiling of Orthoptera: present state and future needs. Journal of Orthoptera Research 27(2): 203–215. <https://doi.org/10.3897/jor.27.23700>

Abstract

Bioacoustic monitoring and classification of animal communication signals has developed into a powerful tool for measuring and monitoring species diversity within complex communities and habitats. The high number of stridulating species among Orthoptera allows their detection and classification in a non-invasive and economic way, particularly in habitats where visual observations are difficult or even impossible, such as tropical rainforests. Major sound archives were queried for Orthoptera songs, with special emphasis on usability as reference training libraries for computer algorithms. Orthoptera songs are highly stereotyped, reliable taxonomic features. However, exploitation of songs for acoustic profiling is limited by the small number of reference recordings: existing song libraries represent only about 1000 species, mainly from Europe and North America, covering less than 10% of extant stridulating Orthoptera species. Available databases are fragmented and lack tools for song annotation and efficient feature-based searching. Results from recent bioacoustic surveys illustrate the potential of the method, but also the challenges and bottlenecks impeding further progress. A major problem is time-consuming data analysis of recordings. Computer-aided identification software exists for classification and identification of cricket and grasshopper songs, but these tools are still far from practical for field application.

A framework for acoustic profiling of Orthoptera should consist of the following components: (1) Protocols for standardized acoustic surveys in upland at species and community levels, using automatic long-term recordings; (2) Open access of song data and voucher specimens, involving (OSF) and Global Biodiversity Information System (GBIF) and Global Biodiversity Information System structure for automatized analysis and song annotation and improvement of Orthoptera taxonomic backbone and repository for Taxonomists should be encouraged, or even recordings, particularly if they form part of song

Key words

acoustic monitoring, data repositories, Open Access, standardization

Introduction

A considerable number of animal communication sounds for communication, indicating

ally. Among the most impressive examples are tropical rainforest insects, producing a huge variety of audible signals, while only very few can actually be seen (Riede 1993).

There is a long tradition in ornithology of identifying birds by their songs (Parker 1991). Acoustic assessment forms part of regular censusing (reviewed by Brandes 2008), or targeted searches for flagship species such as the Ivory Woodpecker (Swiston and Mennill 2009). Efficiency and reproducibility of human observers can be increased considerably by using powerful directional microphones in combination with cheap portable sound recording devices and bat detectors, allowing monitoring of high frequency or even ultrasound signals (reviewed by Obrist et al. 2010, p. 79). Several research groups developed sophisticated autonomous sound recording and automated classification techniques, facilitating monitoring and inventorying of birds (Haselmayer and Quinn 2000, Celis-Murillo et al. 2009; but see Hutto and Stutzman 2009, for a discussion of limitations), whales (Širović et al. 2009), bats (Jennings et al. 2008), frogs (Hu et al. 2009), crickets (Riede 1993, Nischk and Riede 2001, Riede et al. 2006), bushcrickets (Penone et al. 2013) and grasshoppers (Chesmore and Ohya 2004, Gardiner et al. 2005).

bioacoustic surveys in upland forests. Ecology Letters 11: 139–150. <https://doi.org/10.1111/j.1461-0248.2007.01133.x>

Garnas JR (2018) Rapid evolution of insects to global environmental change: conceptual issues and empirical gaps. Current Opinion in Insect Science 29: 93–101. <https://doi.org/10.1016/j.cois.2018.07.013>

GBIF (2015) GBIF Occurrence Download <https://doi.org/10.15468/dl.pwhibo> accessed via GBIF.org on 02 Jul 2015 <https://www.gbif.org/occurrence/download/0005955-150615163101818>

GBIF (2017) GBIF Occurrence Download. <https://doi.org/10.15468/dl.psq6q1> [03 Nov 2017]

Guralnick RP, Cellinese N, Deck J, Pyle RL, Kunze J, Penev L, Walls R, Hagedorn G, Agosti D, Wiczorek J, Catapano T, Page EDM (2015) Community next steps for making globally unique identifiers work for



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DOI



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And

- Country or area Zimbabwe • Mozambique • Zambia
- Has coordinate true
- Scientific name Lantana camara L.
- Has geospatial issue false

API



596 occurrences downloaded

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API

And

- Country or area** Zimbabwe • Mozambique • Zambia
- Has coordinate** true
- Scientific name** Lantana camara L.
- Has geospatial issue** false



596 occurrences downloaded

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- And
- Country or area Zimbabwe • Mozambique • Zambia
 - Has coordinate true
 - Scientific name Lantana camara L.
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DOI 10.15468/dl.aatf5f

Country or area Guatemala

DOI 10.15468/dl.djt32h

Date: 23 July 2018

Occurrences: 4,016

Involved datasets: 6

And

Country or area Spain

Scientific name Aedes albopictus Skuse, 1894

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USE CASE 4: Occurrence search, visualization, and data download



USE CASE 5: Import downloaded data into an Excel file





Spatial search



Occurrences



SEARCH OCCURRENCES | 1,295,077,763 WITH COORDINATES

Search all fields



Simple

Advanced

License



Scientific name



Basis of record



Location



No preference

Including coordinates

Without coordinates

Include records where coordinates are flagged as suspicious



TABLE

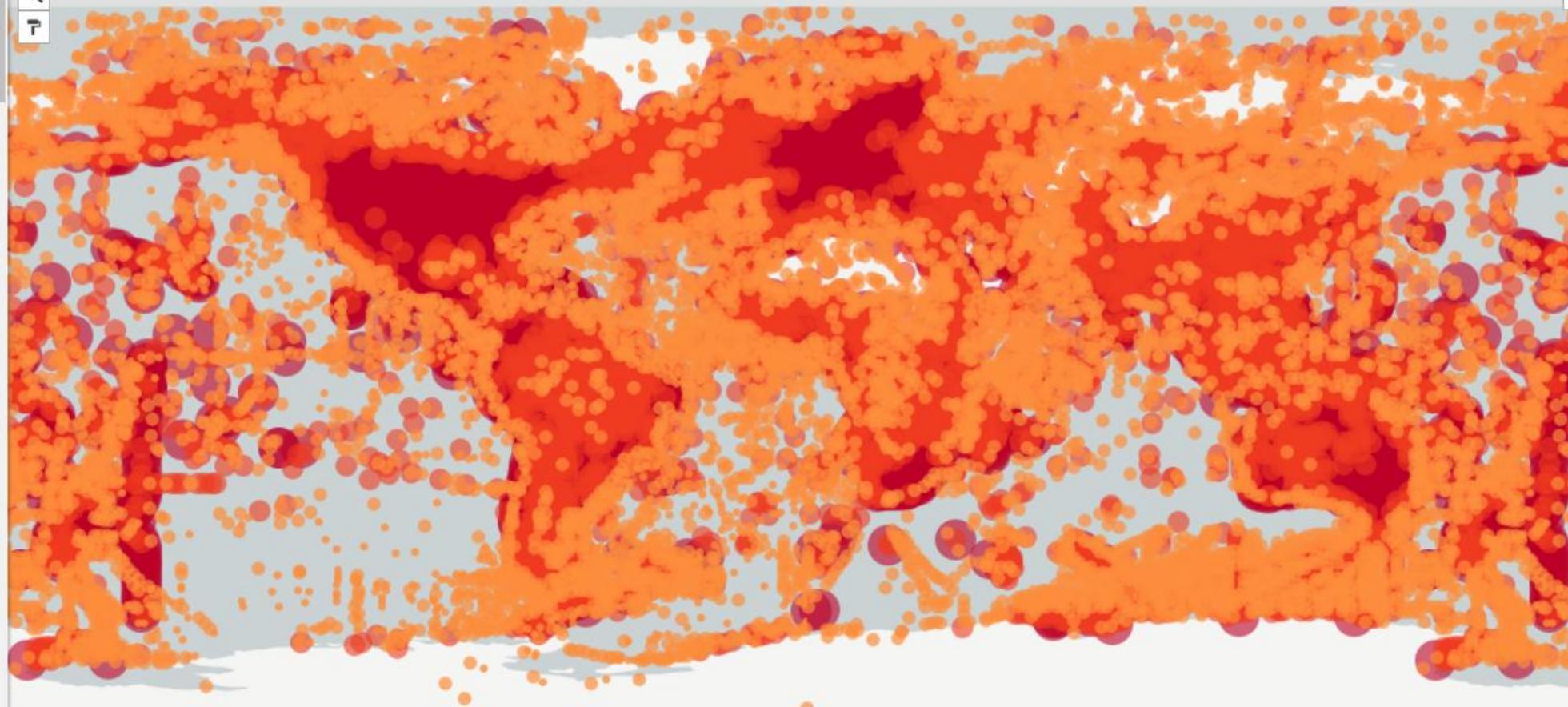
GALLERY

MAP

TAXONOMY

METRICS

DOWNLOAD



GBIF | Global Biodiversity Information Facility

Acceso libre y gratuito a los datos de biodiversidad

OCCURRENCES SPECIES DATASETS PUBLISHERS RESOURCES

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Purple anthias (*Pseudanthias tuka*) observed in Russell Islands, Solomon Islands by Mark Rosenstein. Photo (mirrored) via iNaturalist (CC BY-NC-SA 4.0)

Occurrence records
1.389.895.174

Datasets
50.818

Publishing institutions
1569

Peer-reviewed papers using data
4306



Call for proposals: Analysis of biodiversity data needs in the post-2020 framework



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



Call for nominations to the 2020 GBIF Young Researchers Award



Virtual workshop planned on "Advancing the Catalogue of the World's Natural History Collections"





Search all fields

Simple Advanced

License

Scientific name

Bryophyta

Basis of record

Location

Including coordinates

Include records where coordinates are flagged as suspicious

Year

Month

Dataset

Country or area

Continent

Issues and flags

Media type

Publisher

Institution code

TABLE GALLERY MAP

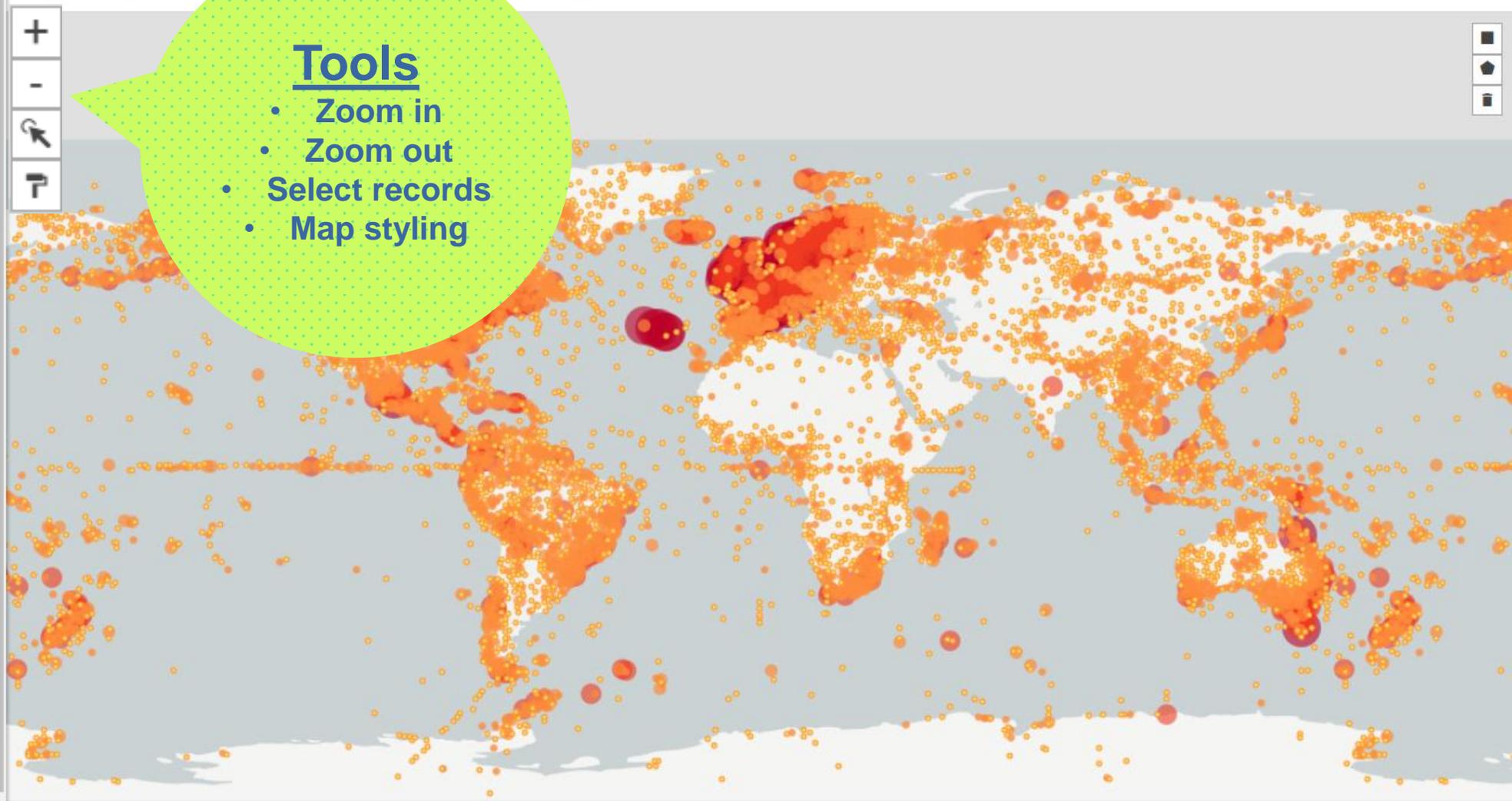
+

-

DOWNLOAD

Tools

- Zoom in
- Zoom out
- Select records
- Map styling





Search all fields

 Simple Advanced

License

Scientific name

 Bryophyta

Basis of record

Location

 Including coordinates Include records where coordinates are flagged as suspicious

Year

Month

Dataset

Country or area

Continent

Issues and flags

Media type

Publisher

Institution code

TABLE

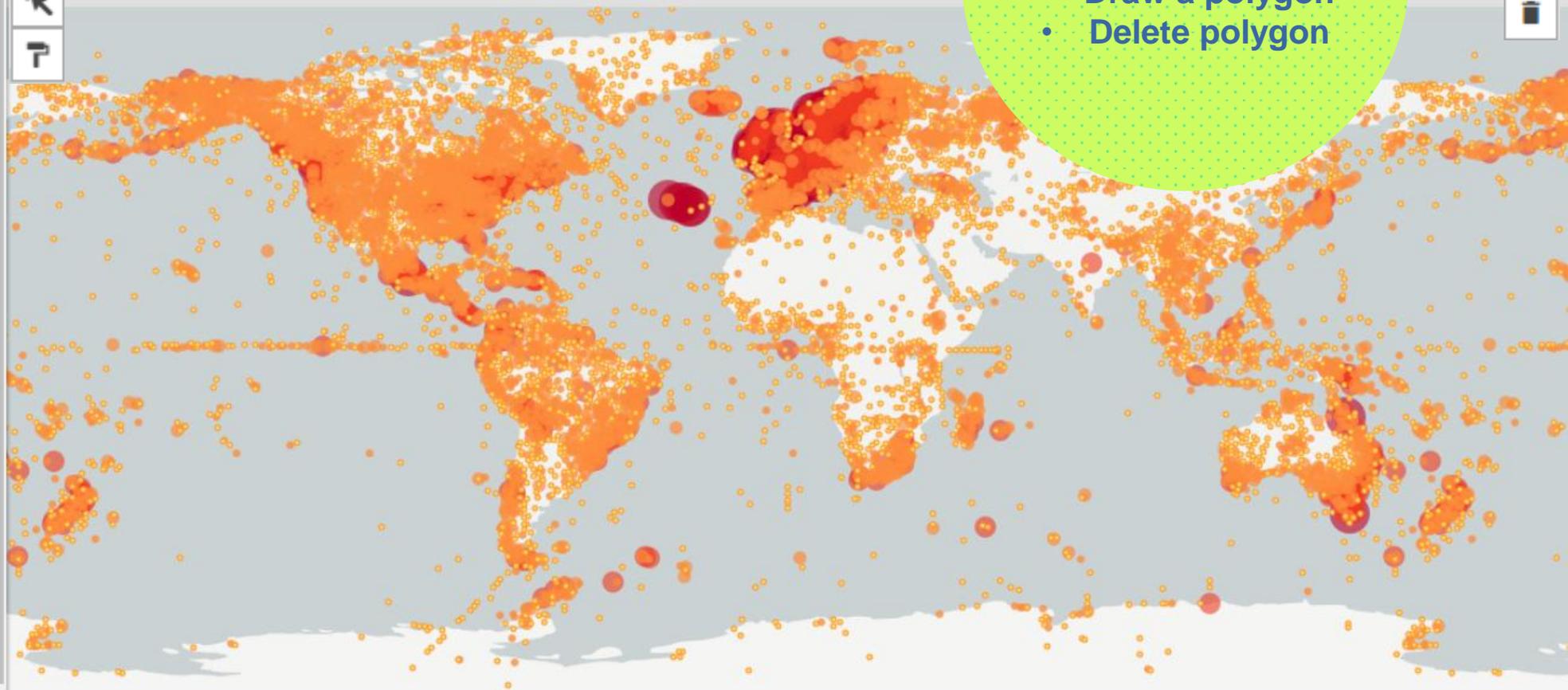
GALLERY

MAP

TAXONOMY

METRICS

DOWNLOAD



Tools

- Draw a rectangle
- Draw a polygon
- Delete polygon





Occurrences 2

SEARCH OCCURRENCES | 7,735 WITH COORDINATES

Search all fields

Simple Advanced

License

Scientific name

Bryophyta

Basis of record

Location

Including coordinates

Include records where coordinates are flagged as suspicious

POLYGON((18.71671 -30.82476,17.89773 -31.2...

Year

Month

Dataset

Country or area

Continent

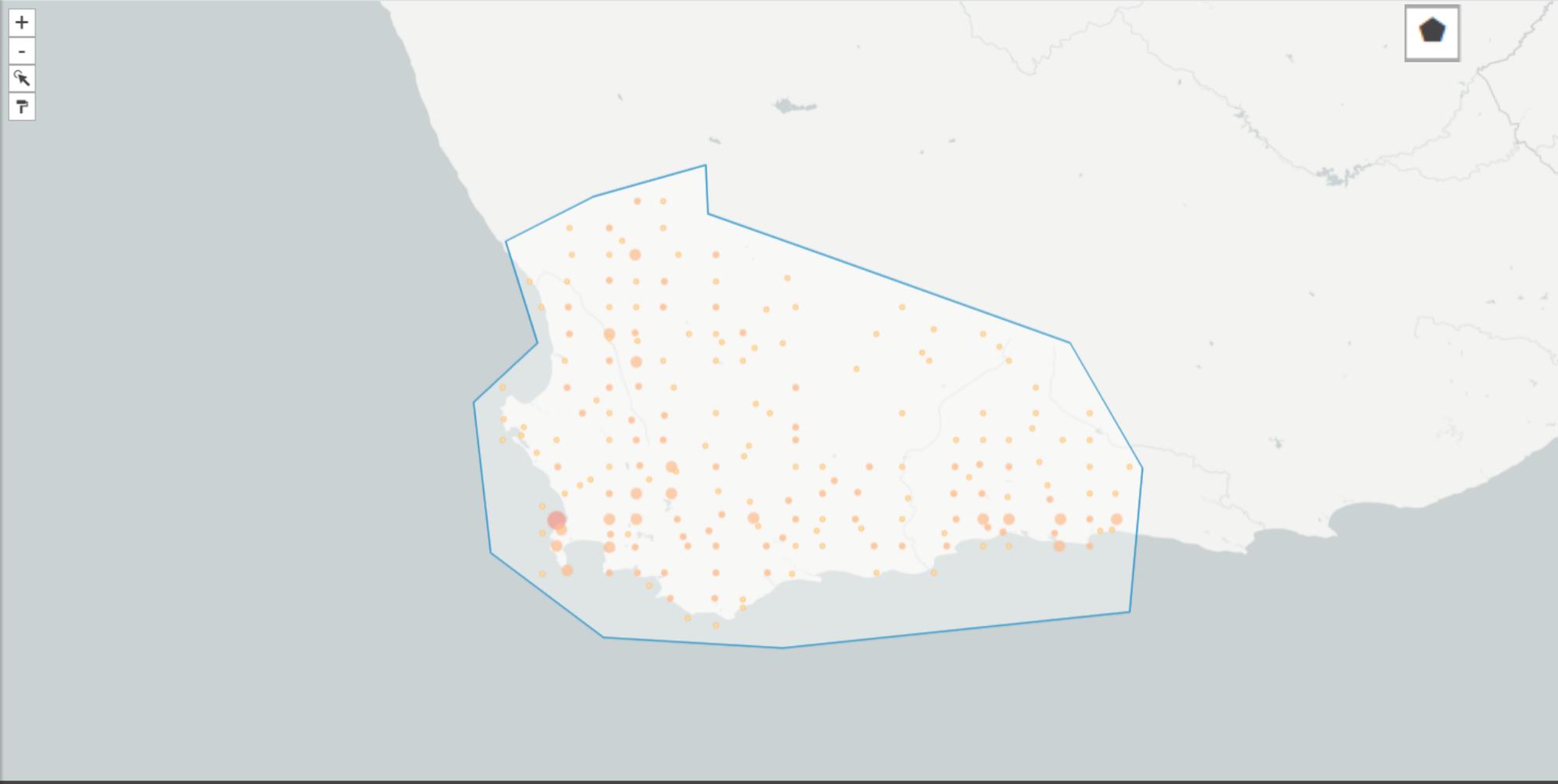
Issues and flags

Media type

Publisher

Institution code

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD





Occurrences



SEARCH OCCURRENCES | 7,735 WITH COORDINATES

Search all fields

**Simple** Advanced

License

Scientific name

 Bryophyta

Basis of record

Location

 Including coordinates Include records where coordinates are flagged as suspicious POLYGON((18.71671 -30.82476,17.89773 -31.2...

Year

Month

Dataset

Country or area

Continent

Issues and flags

Media type

Publisher

Institution code

TABLE

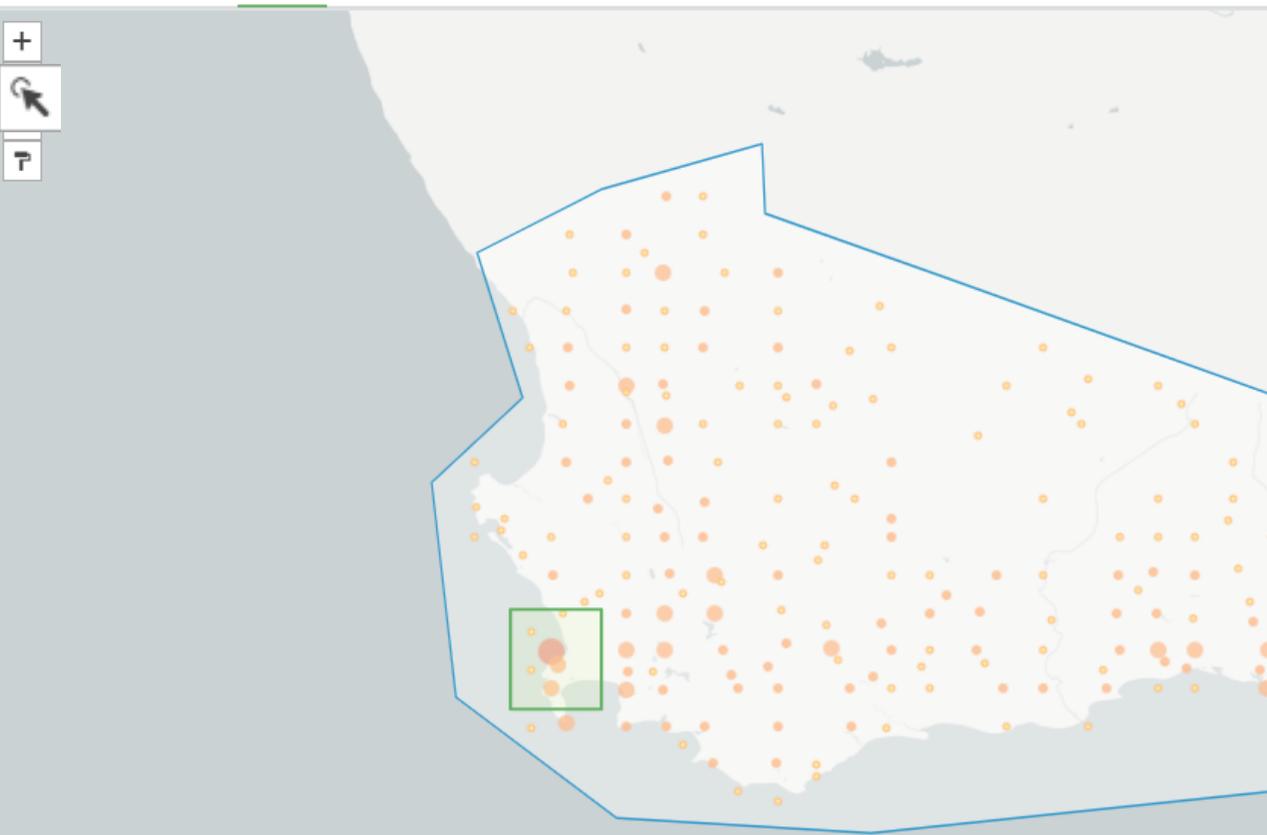
GALLERY

MAP

TAXONOMY

METRICS

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Occurrences in area

Hypnum cupressiforme Hedwig, 1801

Plantae > Bryophyta > Bryopsida > Hypnales > Hypnaceae > Hypnum

**Trichostomum brachydontium Bruch, 1829**

Plantae > Bryophyta > Bryopsida > Pottiales > Pottiaceae > Trichostomum

**Hypnum cupressiforme Hedwig, 1801**

Plantae > Bryophyta > Bryopsida > Hypnales > Hypnaceae > Hypnum

**Hyophila involuta Jaeger, 1873**

Plantae > Bryophyta > Bryopsida > Pottiales > Pottiaceae > Hyophila

**Trichostomum brachydontium Bruch, 1829**

Plantae > Bryophyta > Bryopsida > Pottiales > Pottiaceae > Trichostomum

**Hypnum cupressiforme Hedwig, 1801**

Plantae > Bryophyta > Bryopsida > Hypnales > Hypnaceae > Hypnum

**Racomitrium lanuginosum Bridel, 1819**

Plantae > Bryophyta > Bryopsida > Grimmiiales > Grimmiaceae > Racomitrium

**Ischyrodon lepturus Schelpe, 1970**

Plantae > Bryophyta > Bryopsida > Hypnales > Fabroniaceae > Ischyrodon

**Hypnum cupressiforme Hedwig, 1801**

Plantae > Bryophyta > Bryopsida > Hypnales > Hypnaceae > Hypnum

**Ischyrodon lepturus Schelpe, 1970**

USE CASE 6: Spatial search



Gbif, Es

Thanks for your attention!

katia@gbif.es

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