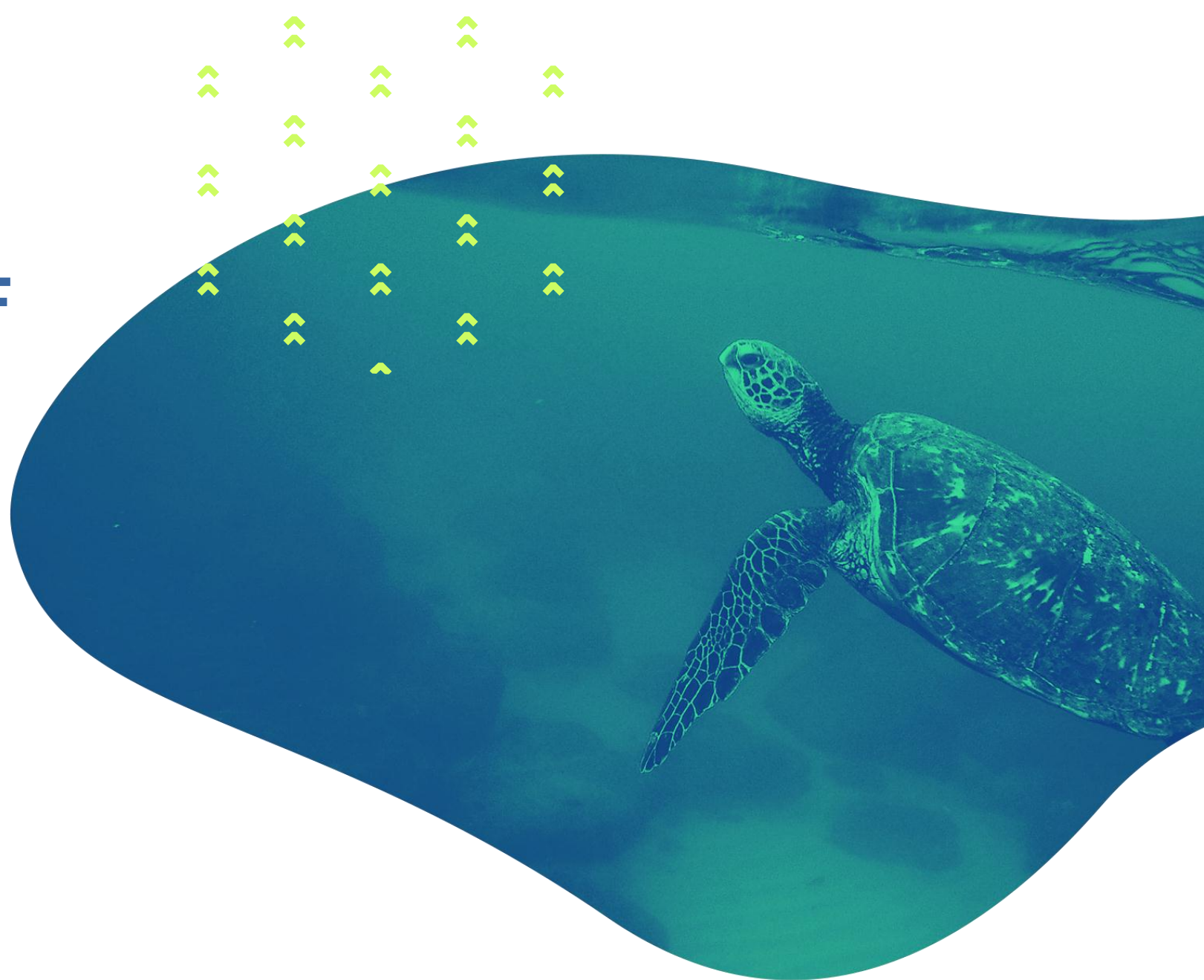


CESP Project: Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain

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 of the slide features a dense pattern of bright green fern fronds. These fronds are set against a solid blue background that has a subtle gradient, appearing slightly darker at the top and lighter towards the bottom. The ferns are oriented in various directions, creating a textured, organic feel.

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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

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Bolitoglossa platydactyla observed by

Occurrence records

1.388.349.397

Datasets

50.729

Publishing institutions

1569

Partners

42



2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity

News



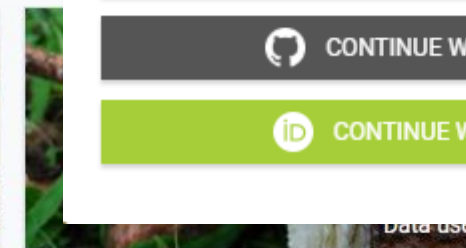
Call for nominations to the 2020 GBIF Young Researchers Award

News



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

News



Global analysis of potential marginal land resources of cassava

Data use

[LOGIN](#)[REGISTER](#)

USERNAME OR EMAIL

katia

PASSWORD

[Forgot your password?](#)

SIGN IN

OR



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CONTINUE WITH FACEBOOK



CONTINUE WITH GITHUB



CONTINUE WITH ORCID

Account creation on GBIF.org

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REGISTER

×

COUNTRY

Spain

EMAIL


USERNAME


katia


PASSWORD

NEXT

OR

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 SIGN UP WITH FACEBOOK

 SIGN UP WITH GITHUB


1




LOGIN




REGISTER




×

Select all images below like this one









SIGN UP

2



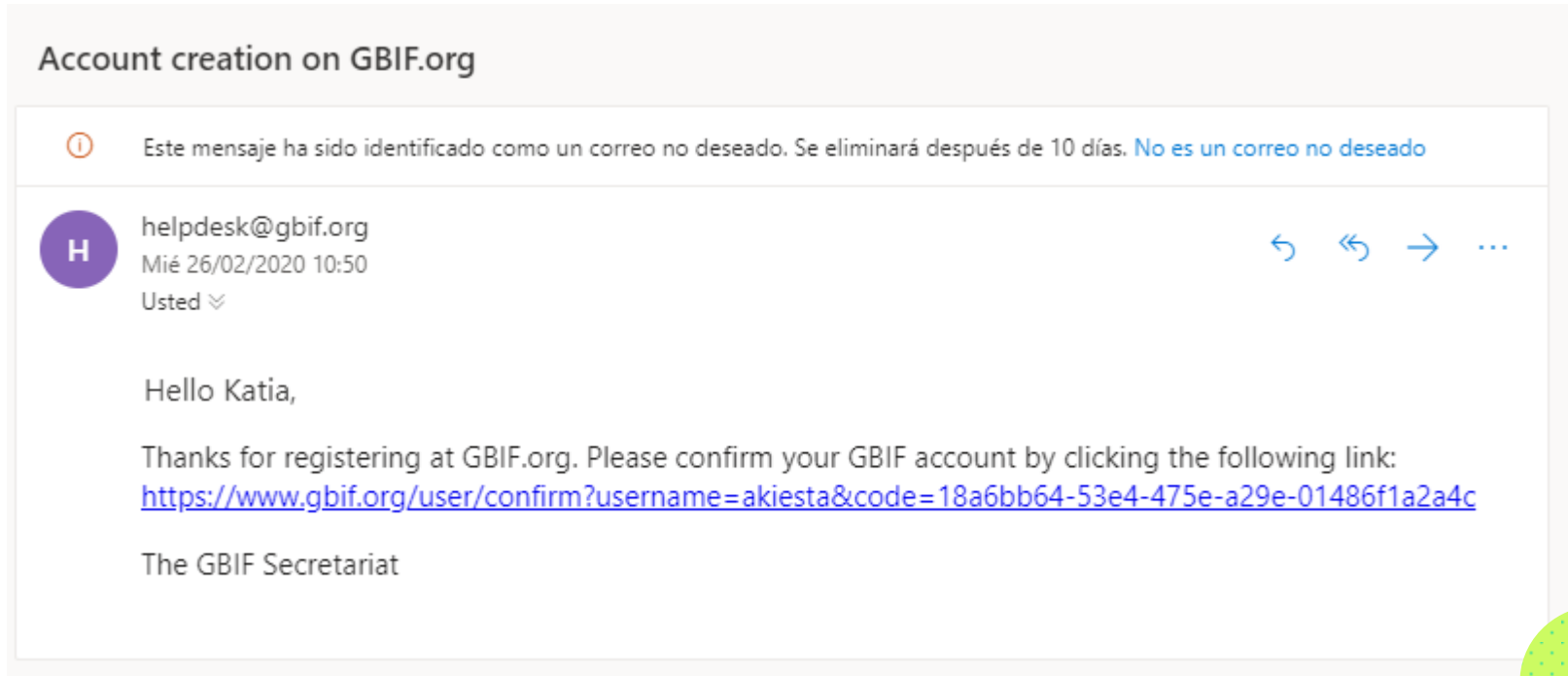
Account created

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3





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Account creation on GBIF.org



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katia

Katia Cezón

PROFILE

DOWNLOADS

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The download request was unsuccessful. Please try it again or get in touch. [Contact helpdesk](#)

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

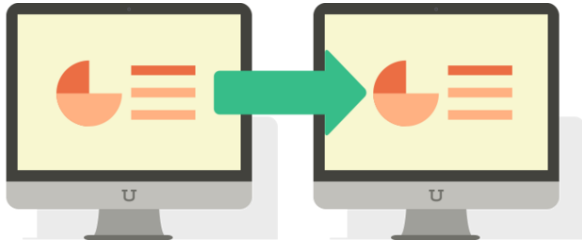
Allows you to keep track of all your downloads

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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[OCCURRENCES](#)[SPECIES](#)[DATASETS](#)[PUBLISHERS](#)[RESOURCES](#)[WHAT IS GBIF?](#)[ABOUT GBIF SPAIN](#)

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

News



Call for nominations to the 2020 GBIF Young Researchers Award

News



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

News



Global analysis of potential marginal land resources of cassava

Data use



Explore Taxonomy

A close-up photograph of a gazelle's head, looking directly at the camera. The gazelle has light brown fur, large dark eyes, and prominent ears with white inner linings. A solid blue circle is overlaid on the left side of the image, containing the word "Aedes" in white, italicized font.

Aedes

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Acceso libre y gratuito a los datos de biodiversidad

[OCCURRENCES](#)[SPECIES](#)[DATASETS](#)[PUBLISHERS](#)[RESOURCES](#)[WHAT IS GBIF?](#)[ABOUT GBIF SPAIN](#)

Bolitoglossa platydactyla observed by Juan M. Díaz 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



News

2020 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity



News

Call for nominations to the 2020 GBIF Young Researchers Award



News

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



Data use

Global analysis of potential marginal land resources of cassava

<

Species

1

Aedes

You are doing a free text search for 'Aedes'
Limit search to

All

Rank

Status

Higher taxon

Issues and flags

You are searching for species in the GBIF taxonomy.

SEARCH ACROSS CHECKLISTS

SEARCH SPECIES | 1,208 RESULTS

SIMPLE

ADVANCED

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







Get dataHow-toToolsCommunityAbout



Login

<

Species

Aedes

You are doing a free text search for 'Aedes'
Limit search to

All

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


SEARCH SPECIES | 1,208 RESULTS

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



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



Text search box

Filters area to narrow the search

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

= *Cometius* 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

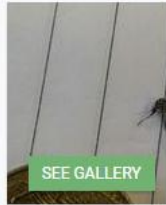





TREATMENT

METRICS

REFERENCE TAXON

386,647 OCCURRENCES947 SPECIES

PHOTOS WITH IMAGES

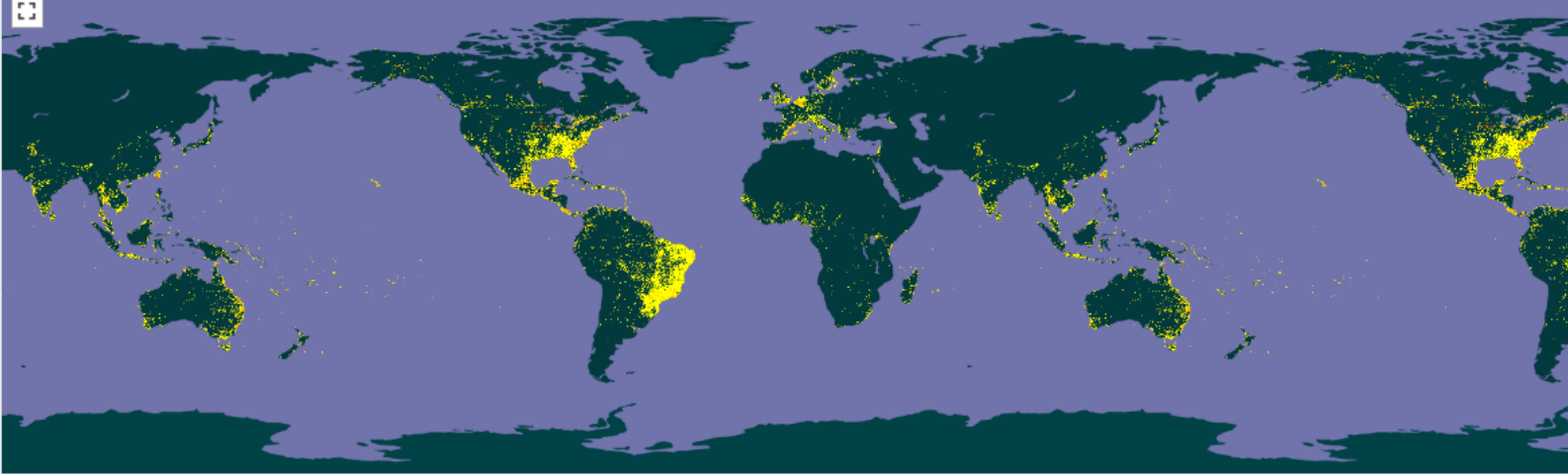


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Any year

1799 - 2020

EXPLORE

Hierarchical Classification and their synonyms

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

= *Cometius* Huang, 2005

= *Heteraspidion* Reinert, Harbach & Kitching, 2009

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= *Xylele* Reinert, Harbach & Kitching,

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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


386,647 OCCURRENCES


947 SPECIES


8,570 OCCURRENCES WITH IMAGES

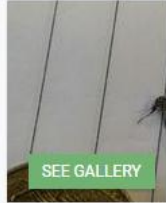










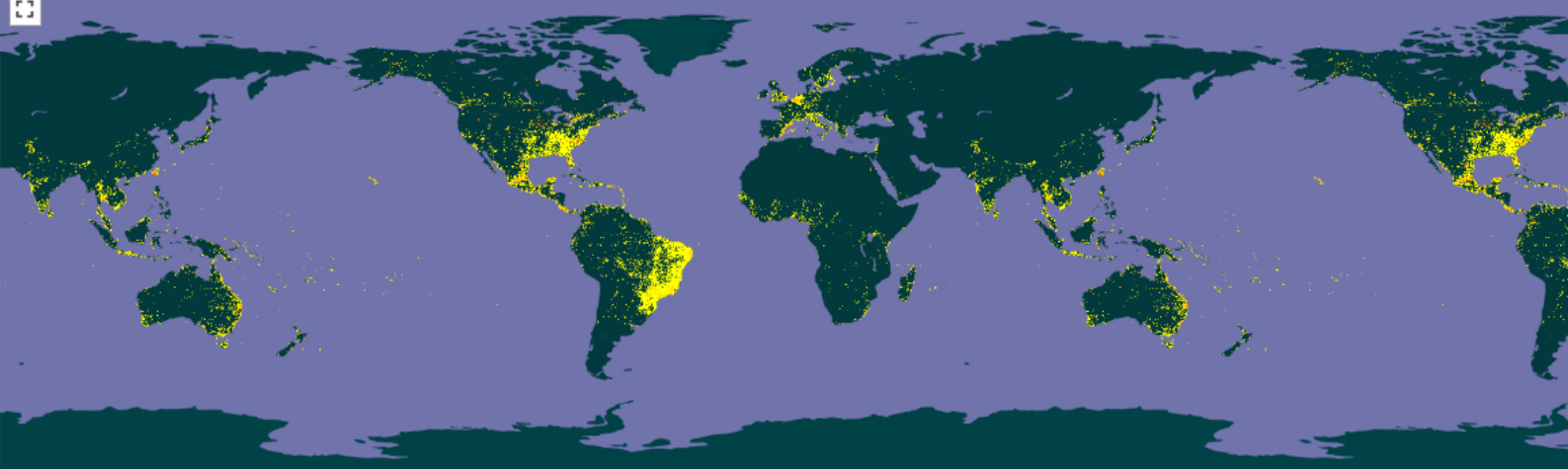


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-



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Any year

1799 - 2020

EXPLORE

Number of occurrences & number of species

Classification

Select a species

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Culicidae

Genus

Aedes Meigen, 1818

= *Bohartius* Reinert, Harbach & Kitching, 2009

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Aedes adami Geoffroy, 1971

Species

Aedes adenensis Edwards, 1941

Species

Aedes adersi (Edwards, 1917)

Species

Aedes aegypti (Linnaeus, 1762)

Species

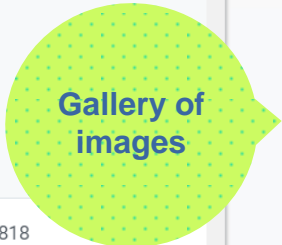
Aedes aenigmaticus Cerqueira & Costa, 1946

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

OVERVIEW


1 TREATMENT


METRICS


REFERENCE TAXON


386,647 OCCURRENCES947 SPECIES


8,570 OCCURRENCES WITH IMAGES

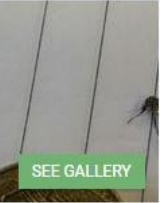










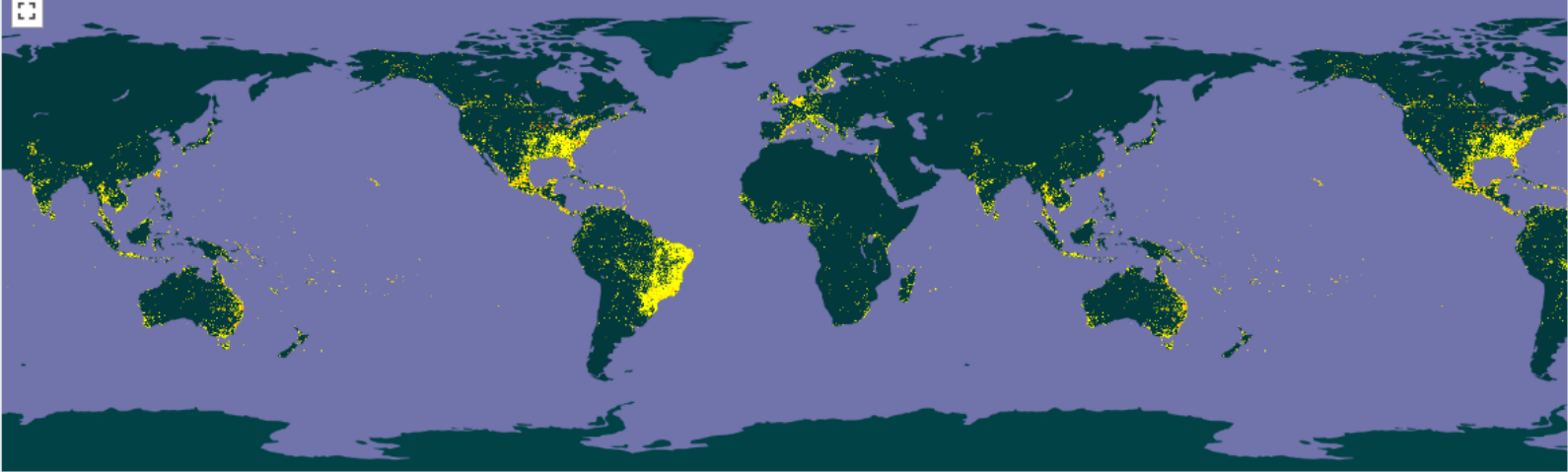


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EXPLORE



Classification

Select a species

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Culicidae

Genus

Aedes Meigen, 1818

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Species

Aedes aenigmaticus Cerqueira & Costa, 1946

Species

Aedes aerarius McIntosh, 1975

Species

Aedes africanus (Theobald, 1901)

Map with
georeferenced
records

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

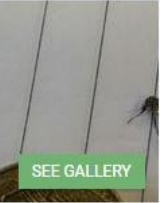





1 TREATMENT

METRICS

REFERENCE TAXON

386,647 OCCURRENCES947 SPECIES

8,570 OCCURRENCES WITH IMAGES

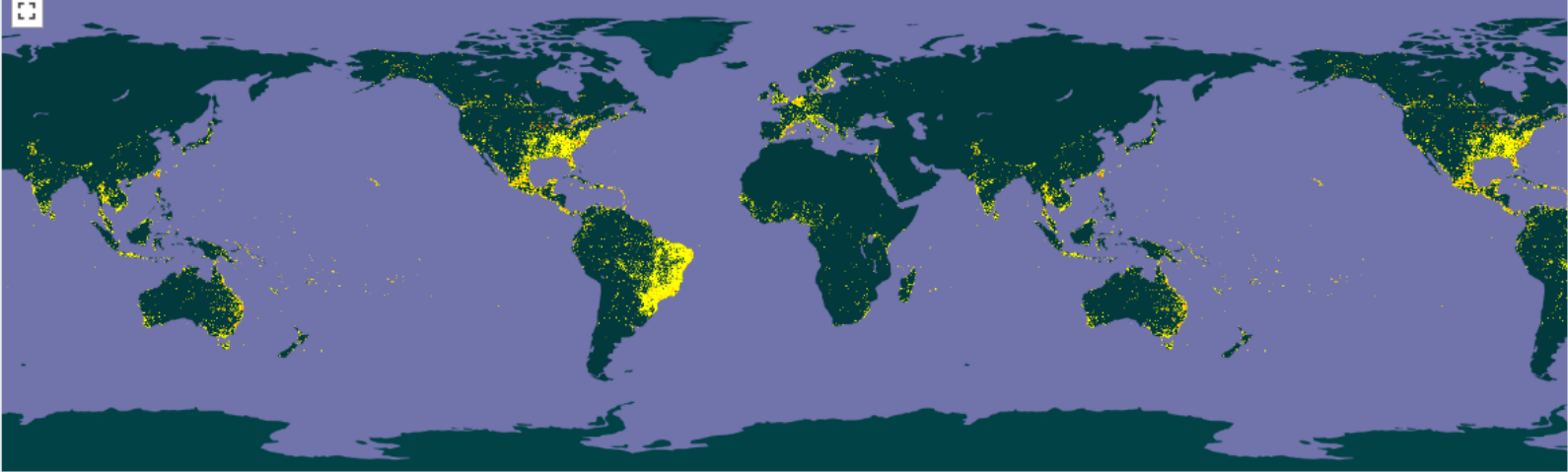


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Any year

1799 - 2020

EXPLORE

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Classification

Select a species

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Culicidae

Genus

Aedes Meigen, 1818

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= Cornetius Huang, 2005

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= Mukwaya Reinert, Harbach & Kitching, 2009

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GENUS | ACCEPTED

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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

IUCN STATUS

NE

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

Additional information at the bottom of the page and in the tabs

Classification

Select a species

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Culicidae

Genus

Aedes Meigen, 1818

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source: Catalogue of Life

OVERVIEW1 TREATMENTMETRICSPERFORMANCE TAXON

386,647 OCCURRENCES947 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

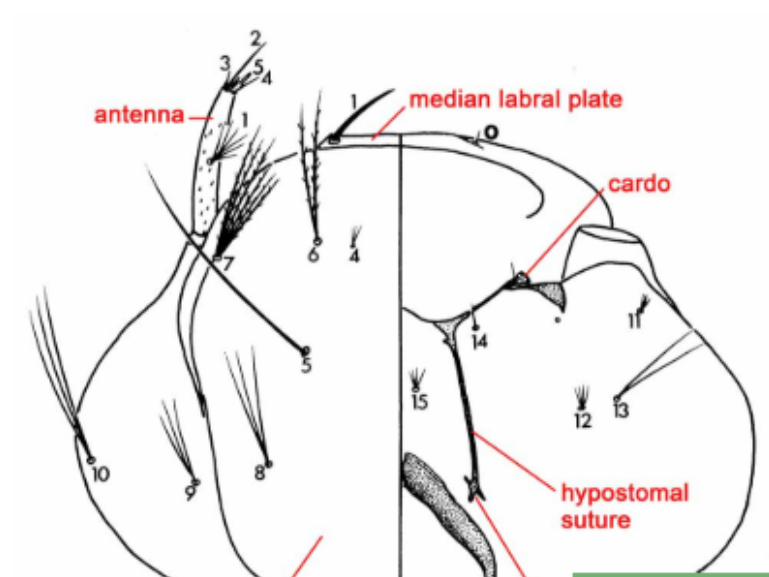
Key to subgenera, species, and subspecies of genera Aedes and Ochlerotatus : fourth-instar larvae

(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

Classification

Select a species

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Culicidae

Genus

Aedes Meigen, 1818

= *Bohartius* Reinert, Harbach & Kitching, 2009

= *Coetzeomyia* Huang, Mathis & Wilkerson, 2010

= *Cometius* Huang, 2005

= *Heteraspidion* Reinert, Harbach & Kitching, 2009

= *Huangmyia* Reinert, Harbach & Kitching, 2009

= *Mukwaya* Reinert, Harbach & Kitching, 2009

= *Xyle* 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

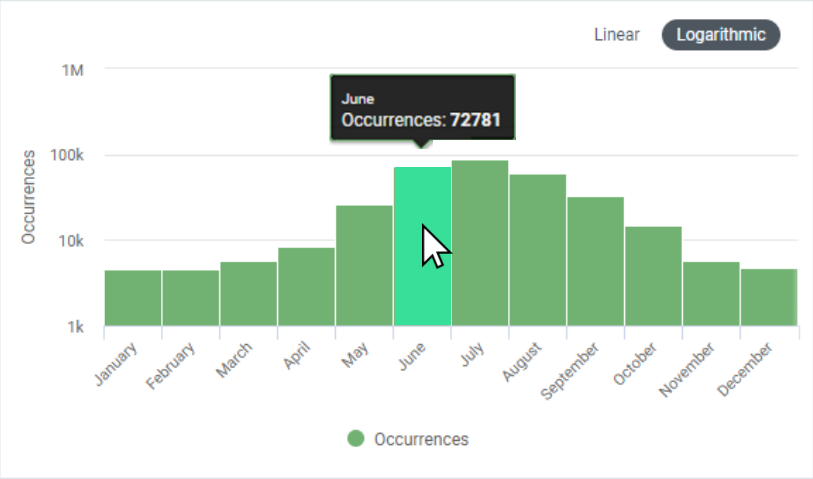
Published in: Meigen, Johann W. 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. F. W. Forstmann, Aachen. Vol. T.1: i-xxxvi; 1-332.
source: Catalogue of Life

OVERVIEW1 TREATMENTMETRICSDIAGRAMSREFERENCE TAXON

388,566 OCCURRENCES947 SPECIES

OCCURRENCES PER MONTH

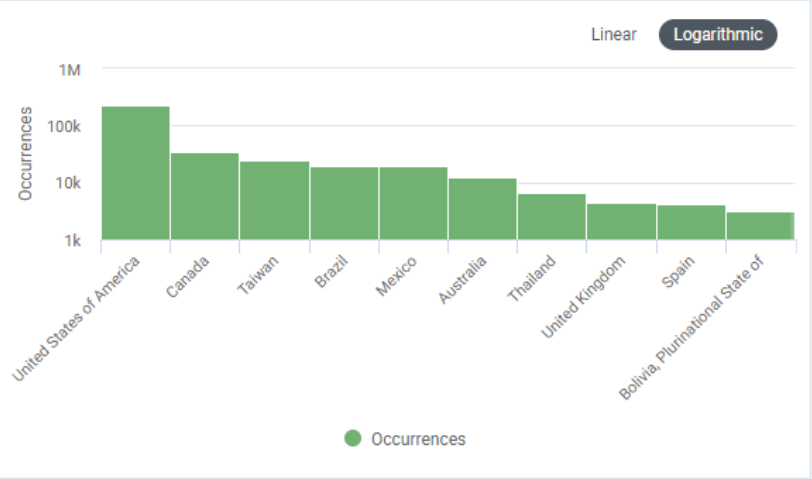
LinearLogarithmic



58,891 other or unknown

OCCURRENCES PER COUNTRY OR AREA


LinearLogarithmic



NEXT

OCCURRENCES PER YEAR

Click and drag in the plot area to zoom in



OCCURRENCES PER DATASET

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

USE CASE 3: Taxonomic search





Explore occurrences

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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



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News



Global analysis of potential marginal land resources of cassava

Data use

Get dataHow-toToolsCommunityAbout							
SEARCH OCCURRENCES 1,388,045,847 RESULTS							
All records							
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Scientific nameCountry or areaCoordinatesMonth & yearBasis of recordDataset							
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)		
Dasycercus 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)		
Dasycercus blythi	Australia	30.5S, 131.8E	2020 January	Human observation	SA Fauna (BDBSA)		

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	<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>Hemitrichia intorta</i> (Lister) Lister	Austria	48.2N, 16.4E	2020 January	Preserved specimen	University of Vienna, Institu
	<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>Dasycercus 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>Dasycercus blythi</i>	Australia	30.5S, 131.8E	2020 January	Human observation	SA Fauna (BDBSA)

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	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>Dasycercus 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>Dasycercus blythi</i>	Australia	30.5S, 131.8E	2020 January	Human observation	SA Fauna (BDBSA)

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	Country or area	Coordinates	Month & year	Basis of record	Dataset
Asplenium taucans 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)
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Dasycercus blythi	Australia	30.5S, 131.8E	2020 January	Human observation	SA Fauna (BDBSA)



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☒ *Aedes* Meigen, 1818

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

Filters



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



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☒ Aedes Meigen, 1818

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Arthropoda 388,558

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Diptera 388,558

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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

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	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
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	<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

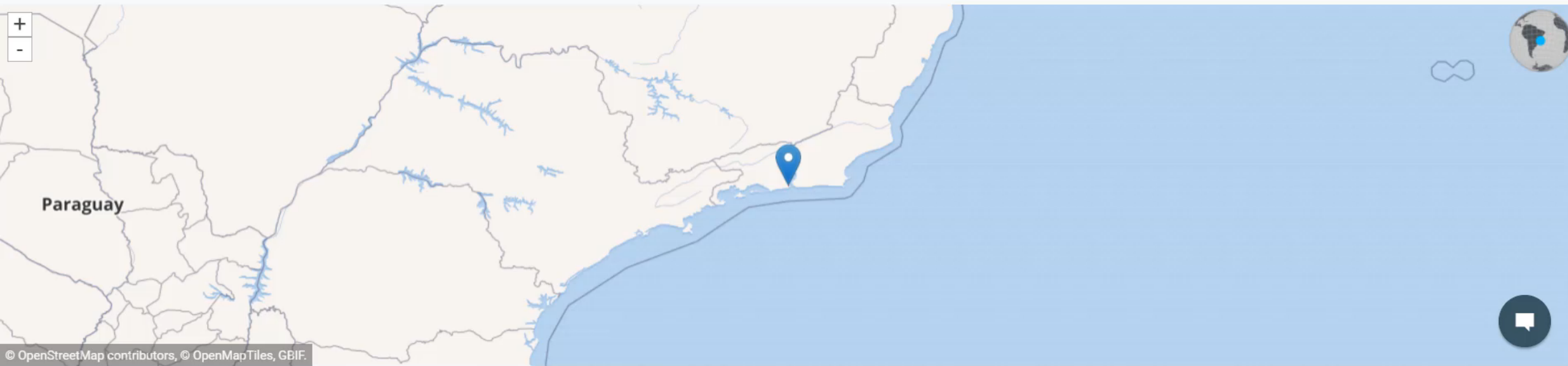
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OCCURRENCE | 20 JANUARY 2020

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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>

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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

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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



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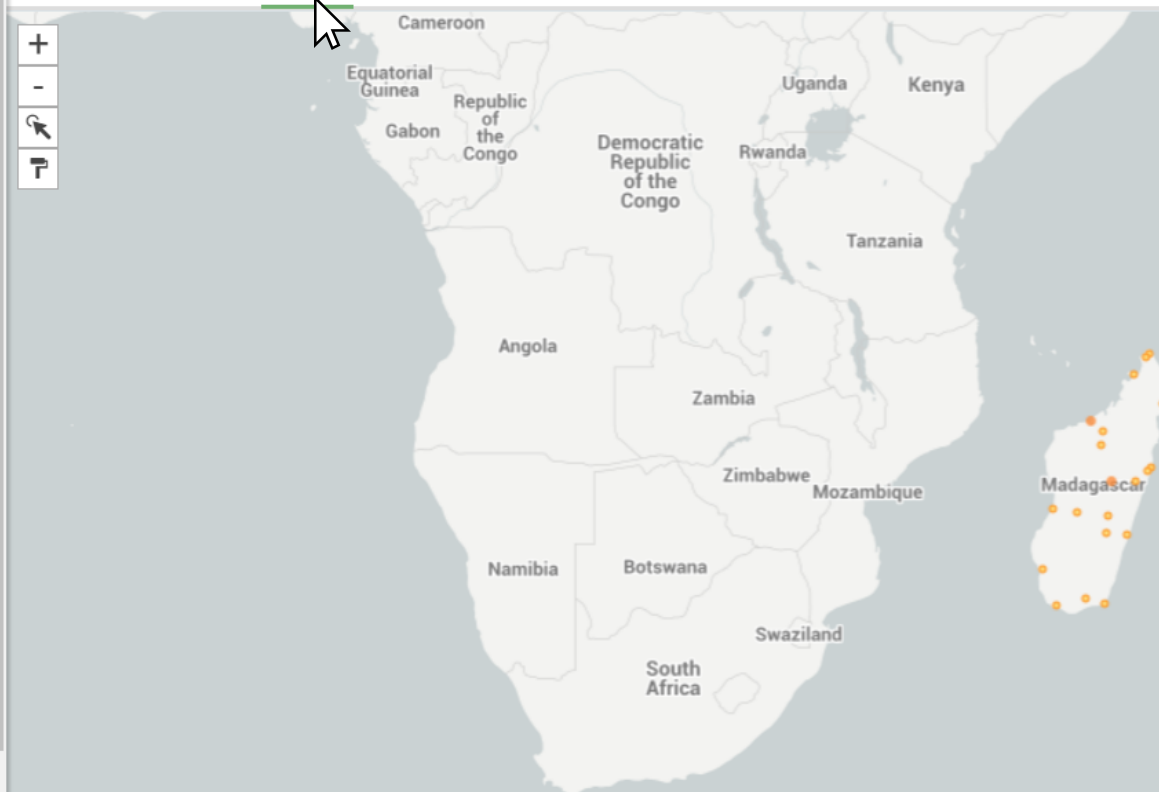
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Scientific name

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

Basis of record



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Year



Month



Dataset



Country or area

☒ Madagascar

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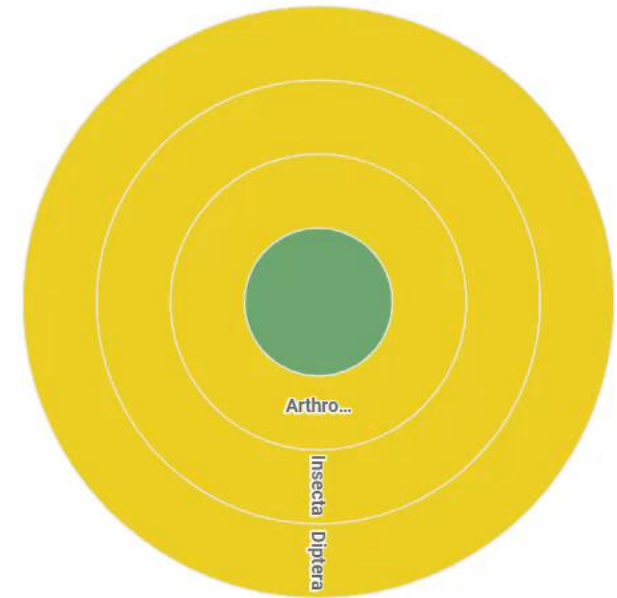
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☒ Aedes albopictus Skuse, 1894

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


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

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OCCURRENCES PER YEAR

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Logarithmic

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January

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March

April

May

June

July

August

September

October

November

December

● Occurrences

Occurrences

20

15

10

5

0

1960

1970

1980

1990

2000

2010

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Scientific name



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

Basis of record



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- ☒ Madagascar

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↓ SPECIES LIST	X	✓	X	X	Tab-delimited CSV ?	

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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		

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☒ Aedes albopictus Skuse, 1894

☒ Aedes aegypti (Linnaeus, 1762)

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<div>↓ DARWIN CORE ARCHIVE</div>	✓	✓	✓ (links)	✓ (if available)	Tab-delimited CSV ?	251 KB (37 KB zipped for download)
<div>↓ SPECIES LIST</div>	X	✓	X	X	Tab-delimited CSV ?	

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Cite the
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Acoustic profiling of Orthoptera: present state and future needs

KLAUS REDE¹¹ Zoological Research Museum Alexander Koenig, Adenauerallee 160, D-53113, Bonn, Germany.

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

Academic editor: Dipturup 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 at species and community levels, using acous-
mous long-term recordings; (2) Open access of song data and voucher specimens, involving (OSF) and Global Biodiversity Information structure for automatized analysis and song
mentation and improvement of Orthoptera the taxonomic backbone and repository for
Taxonomists should be encouraged, or even
codings, particularly if they form part of st

Key words

acoustic monitoring, data repositories, Orthoptera, libraries, standardization

Introduction

A considerable number of animal communication, indicating

cally. 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 Hurto 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).

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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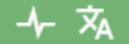
Applied
filters

And

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- Has coordinate** true
- Scientific name** Lantana camara L.
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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



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Spatial search

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

Search all fields



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Advanced

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Scientific name



Basis of record



Location

☒ No preference☐ Including coordinates☐ Without coordinates☐ Include records where coordinates are flagged as suspicious

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TABLE

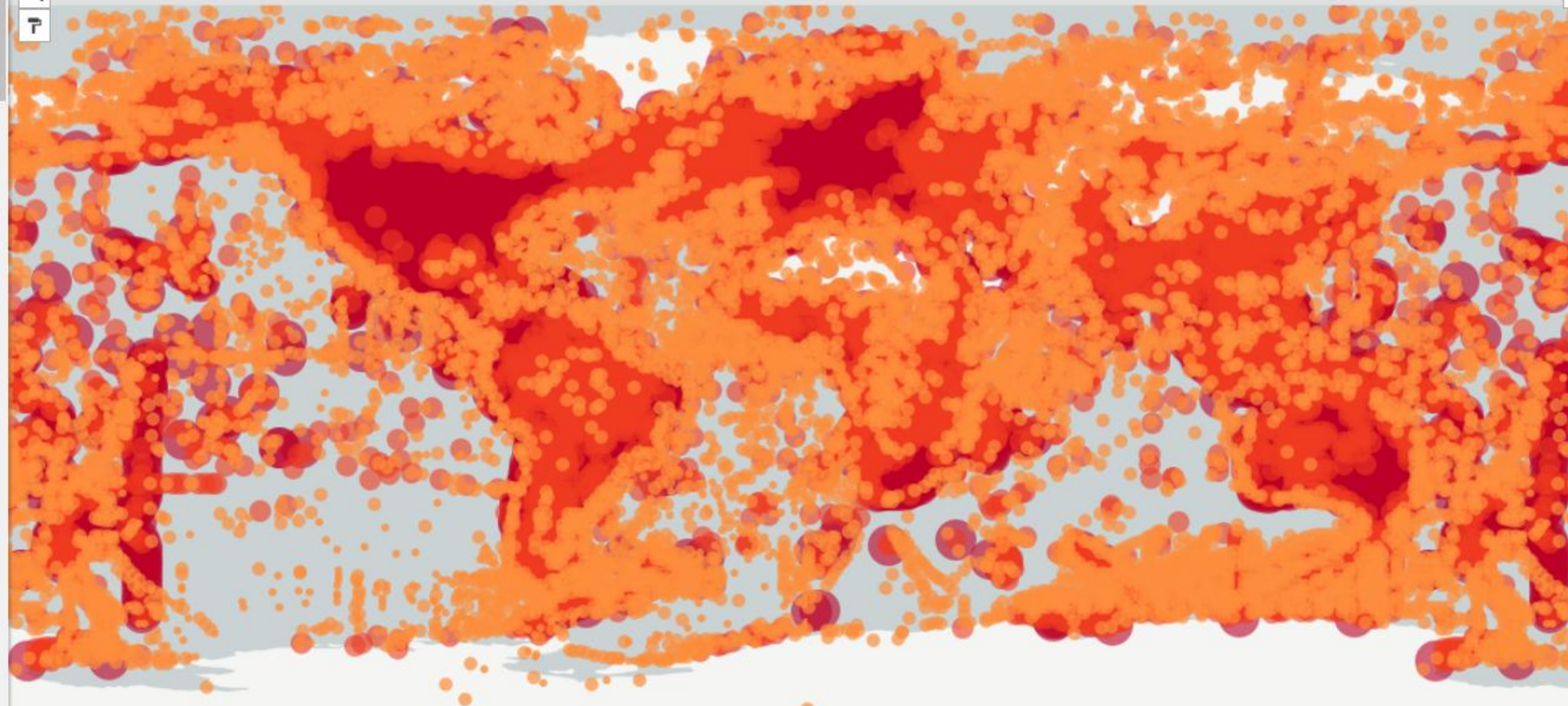
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Purple anthias (*Pseudanthias tuka*) observed in Russell Islands, Solomon Islands by Mark Rosenstein. Photo (mirrored) via iNaturalist (CC BY-NC-SA 4.0)

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1.389.895.174

Datasets
50.818

Publishing institutions
1569

Peer-reviewed papers using data
4306



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Call for nominations to the 2020 GBIF Young Researchers Award



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



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SEARCH OCCURRENCES | 7,436,491 WITH COORDINATES

Search all fields

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Advanced

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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



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Tools

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



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☒ 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



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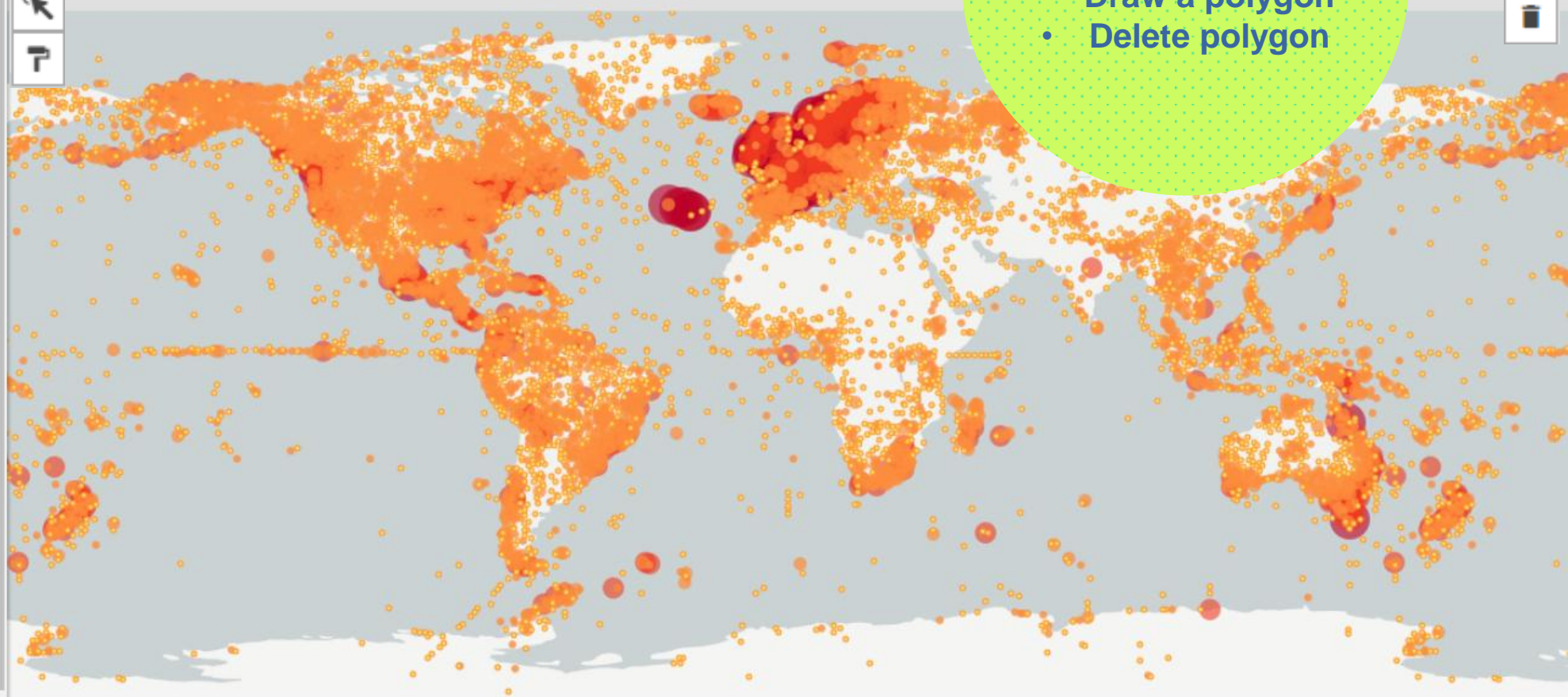
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Tools

- Draw a rectangle
- Draw a polygon
- Delete polygon

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Occurrences



2

Search all fields



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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



SEARCH OCCURRENCES | 7,735 WITH COORDINATES

TABLE

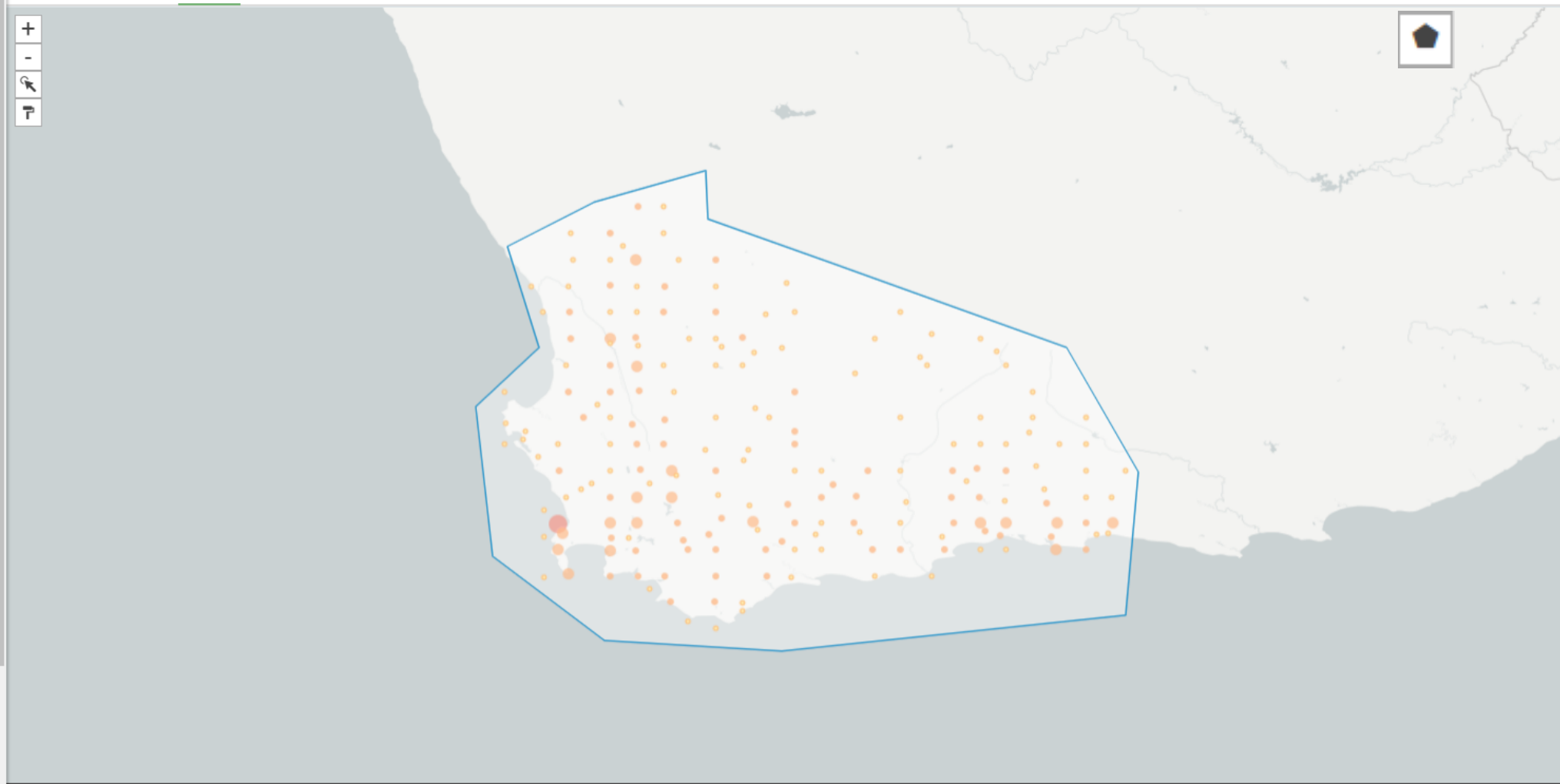
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Occurrences 2

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Search all fields

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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

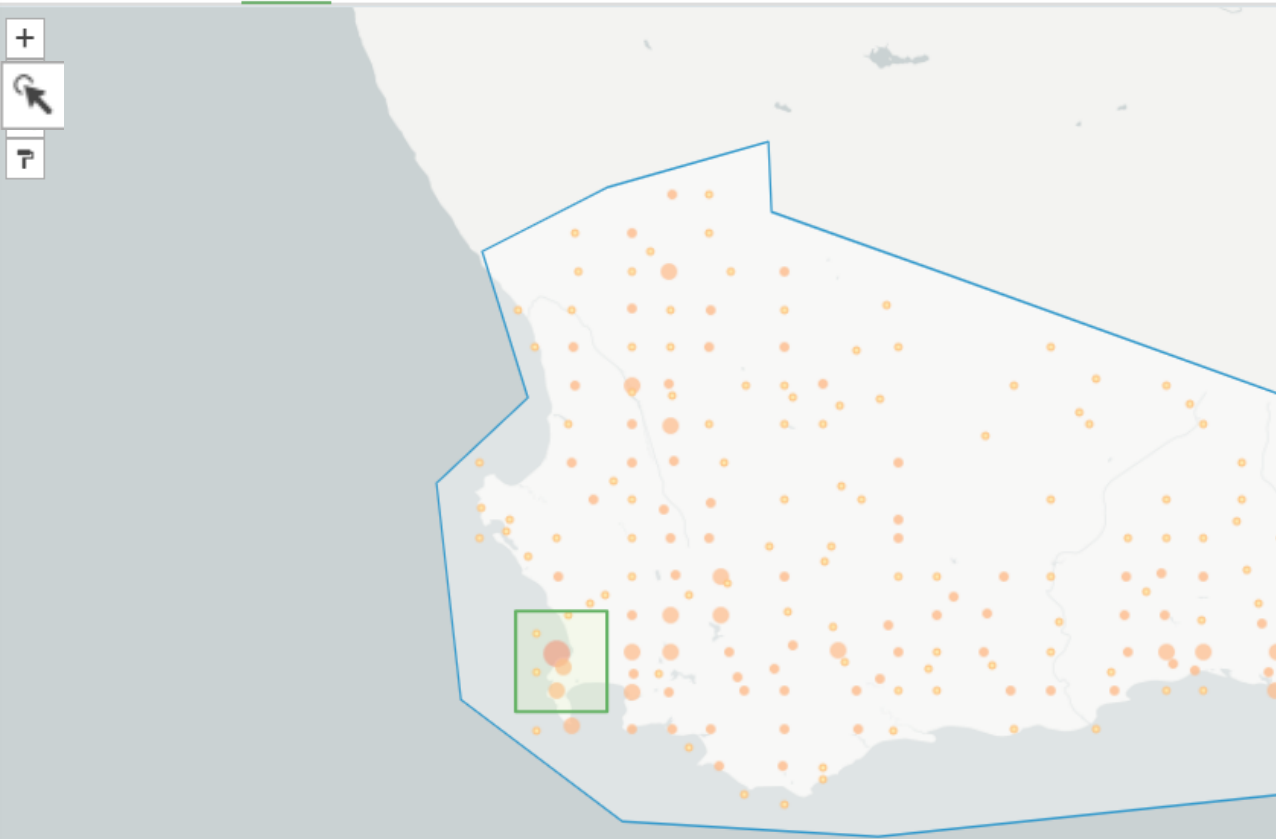
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Publisher

Institution code

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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





Thanks for your attention!

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