

SDMdata

Xiaoquan
Kong

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SDMdata

A GBIF data collect tools

Xiaoquan Kong

2014-8-18

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- SDMdata is a web-based tools to help species distribution researcher to more efficiency collect species occurrence data.
- It brings some automatic function to help user find potential error.
- Yes, it's open source software (AGPL licensed).

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- Automatic check species name compare with GBIF
- Web-based interface allow you access from everywhere
- Optional cross check to automatic mark potential occurrence point

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- 1 Import species name
- 2 Check species name *automaticly*.
- 3 Collect species occurrence record
- 4 Cross check species occurrence point
- 5 Export data

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User

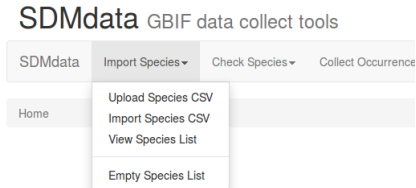
Password

☐ Remember me

Software build-in administrator account: admin
Admin initial password: admin

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This is main entrance point of import species name:



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Upload a CSV file that contain species name

Upload data csv to server then you can import it!

No file selected.

Here is a example of csv file:

	A	B	
1	Anomaloglossus tepuyensis		
2	Arthroleptis variabilis		
3	Arthroleptis wahlbergii		
4	Atelopus carikeri		
5	Atelopus andinus		
6	Atelopus oxyrhynchus		
7	Atelopus spumarius		
8	Atelopus pachydermus		
9	Atelopus spurrelli		
10	Austrochaperina basipalmata		
11			
12			

Notice

CSV file MUST encode in ASCII, and first column MUST be species name

Import CSV file into software:

[Home](#) / [Import Species](#) / [Import Species CSV](#)

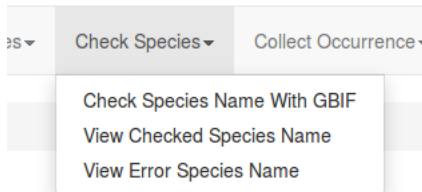
Click [here](#) to import csv file into species name list

View imported species name:

[Home](#) / [Import Species](#) / [View Species List](#)

Species name
Anomaloglossus tepuyensis
Arthroleptis variabilis
Arthroleptis wahlbergii
Atelopus andinus
Atelopus carrikeri
Atelopus oxyrhynchus
Atelopus pachydermus
Atelopus spumarius
Atelopus spurrelli
Austrochaperina basipalmata

This is main entrance point of check species name:



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The control page of check species name:

[Home](#) / [Check Species](#) / Check Species Name With GBIF

Service Progress

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Service Control

Start

Restart

Stop

Current Status: stop

View checked species name:

[Home](#) / [Check Species](#) / View Checked Species Name

click [here](#) download as CSV file

Species name	Kingdom	Phylum	Class	Order	Superfamily	Family	Genus	Scientific Name	Intraspecific T
<i>Atelopus oxyrhynchus</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus oxyrhynchus</i> Boulenger, 1903	
<i>Atelopus spurrelli</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus spurrelli</i> Boulenger, 1914	
<i>Atelopus carikeri</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus carikeri</i> Ruthven, 1916	
<i>Atelopus spumarius</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus spumarius</i> Cope, 1871	
<i>Anomaloglossus tepuyensis</i>	Animalia	Chordata	Amphibia	Anura		Aromobatidae	<i>Anomaloglossus</i>	<i>Anomaloglossus tepuyensis</i> (La Marca, 1997)	
<i>Arthroleptis variabilis</i>	Animalia	Chordata	Amphibia	Anura		Arthroleptidae	<i>Arthroleptis</i>	<i>Arthroleptis variabilis</i> Matschie, 1893	
<i>Austrochaperina basipalmata</i>	Animalia	Chordata	Amphibia	Anura		Microhylidae	<i>Austrochaperina</i>	<i>Austrochaperina basipalmata</i> (Van Kampen, 1906)	
<i>Arthroleptis wahlbergii</i>	Animalia	Chordata	Amphibia	Anura		Arthroleptidae	<i>Arthroleptis</i>	<i>Arthroleptis wahlbergii</i> Smith, 1849	
<i>Atelopus andinus</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus andinus</i> Rivero, 1968	
<i>Atelopus pachydermus</i>	Animalia	Chordata	Amphibia	Anura		Bufo	<i>Atelopus</i>	<i>Atelopus pachydermus</i> (Schmidt, 1857)	

Control fetch occurrence:

[Home](#) / [Collect Occurrence](#) / [Fetch occurrence](#)

Service Progress

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Service Control

<div>Start</div>	<div>Restart</div>	<div>Stop</div>
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Current Status: running

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Species occurrence data come from GBIF always contains some errors, it cannot be used directly. After some data clean jobs, that will remove errors. Cross check is one of many clean methods.

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GBIF occurrence data with coordinate always come with country which the point belong to. Our cross check will check the coordinate with country, to check if it match. If not match that means this occurrence record **may** have some mistake.

Control cross check:

[Home](#) / [Cross check](#) / [Cross check Occurrence](#)

Service Progress

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Service Control

Start	Restart	Stop
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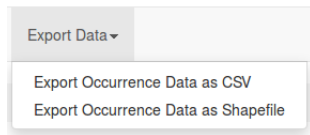
Current Status: running

View cross check result:









[Home](#) / [Collect Occurrence](#) / [View Species cross check result](#)

Species name	Correct	Incorrect	unknown_country
Atelopus oxyrhynchus	4	0	0
Atelopus spurrelli	126	7	0
Atelopus carrikeri	35	0	0
Atelopus spumarius	76	0	0
Arthroleptis variabilis	158	1	0
Austrochaperina basipalmata	8	0	0
Arthroleptis wahlbergii	116	7	0
Atelopus pachydermus	12	0	0

Export species occurrence data:



Directory of species occurrence data:

	Arthroleptis variabilis.csv
	Arthroleptis wahlbergii.csv
	Atelopus carrikeri.csv
	Atelopus oxyrhynchus.csv
	Atelopus pachydermus.csv
	Atelopus spumarius.csv
	Atelopus spurrelli.csv
	Austrochaperina basipalmata.csv

Each species have a CSV file named with the species name.

CSV file of each species occurrence data:

	A	B	C
1	12.2983	-0.0426	1
2	12.1846	-0.1886	1
3	12.2983	-0.0426	1
4	12.2912	-0.0392	1
5	12.2983	-0.0426	1

Each row represent a occurrence point

First column is longitude, second column is latitude, third is the cross check code, check code have different value:

- 1: means cross check is pass
- 0: means cross check is failed, that indicate this occurrence point have potential issue.
- -1: means this occurrence point provide a unknown country code