SDMdata

SDMdata developers

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SDMdata

A GBIF data collect tools

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2014-8-18

Introduce
What is SDMdata

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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 (GPL-2 licensed).

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Advantage of SDMdata

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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

How to use SDMdata

Workflow

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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

Login

Login and default admin

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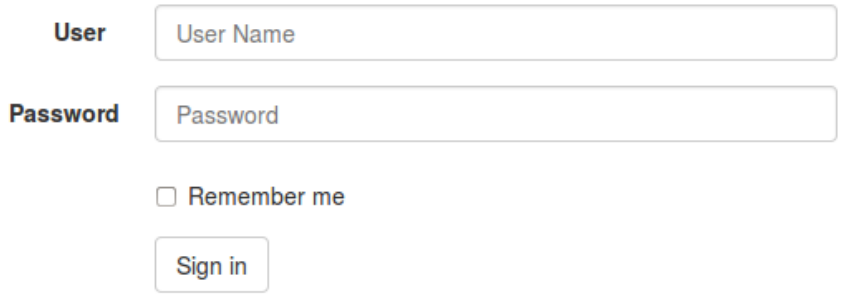

Software build-in administrator account: admin

Admin initial password: admin

Import species name

Main ectrance

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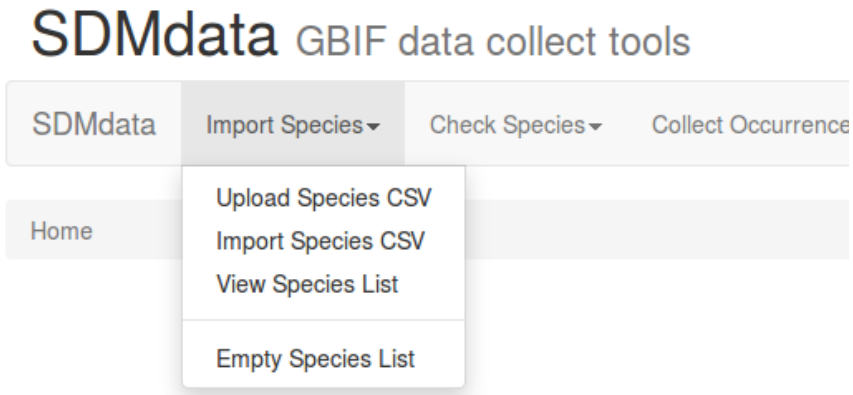
This is main entrance point of import species name:



Import species name
Upload CSV file

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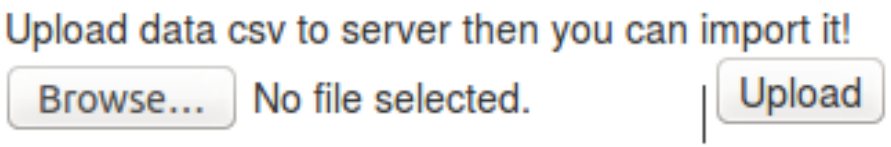
Upload a CSV file that contain species name



Here is a example of csv file:

	A	B
1	Anomaloglossus tepuyensis	
2	Arthroleptis variabilis	
3	Arthroleptis wahlbergii	
4	Atelopus carrikeri	
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

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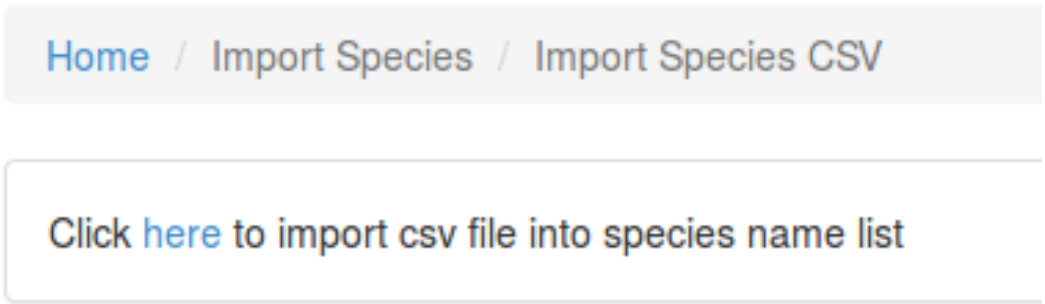
Import CSV file into software:

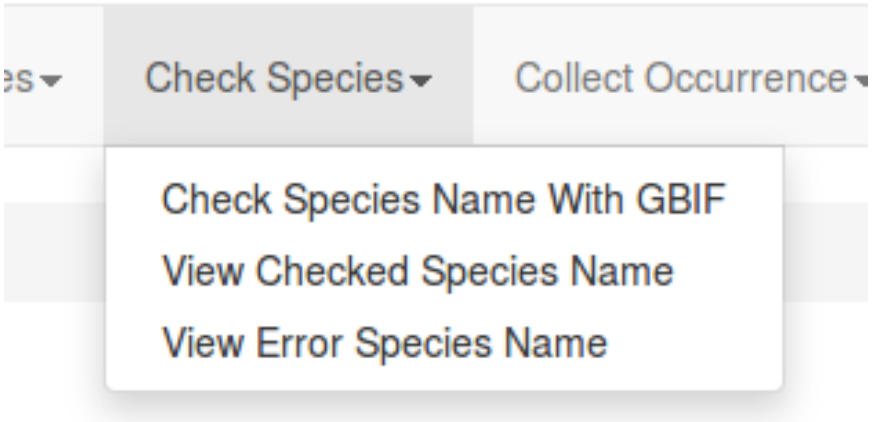


View imported species name:

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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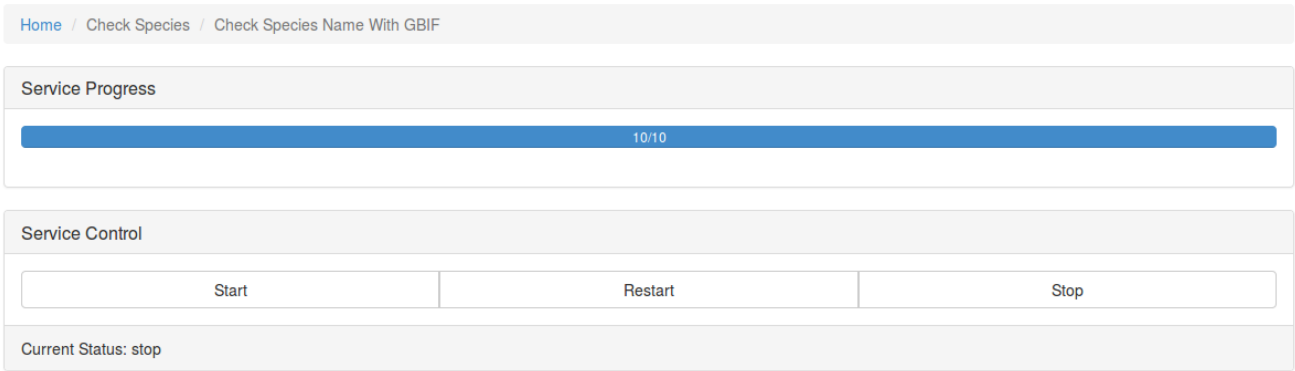
The control page of check species name:



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	Infraspecific T
Atelopus oxyrhynchus	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus oxyrhynchus Boulenger, 1903	
Atelopus spurrelli	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus spurrelli Boulenger, 1914	
Atelopus carrikeri	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus carrikeri Ruthven, 1916	
Atelopus spumarius	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus spumarius Cope, 1871	
Anomaloglossus tepuyensis	Animalia	Chordata	Amphibia	Anura		Aromobatidae	Anomaloglossus	Anomaloglossus tepuyensis (La Marca, 1997)	
Arthroleptis variabilis	Animalia	Chordata	Amphibia	Anura		Arthroleptidae	Arthroleptis	Arthroleptis variabilis Matschie, 1893	
Austrochaperina basipalmata	Animalia	Chordata	Amphibia	Anura		Microhylidae	Austrochaperina	Austrochaperina basipalmata (Van Kampen, 1906)	
Arthroleptis wahlbergii	Animalia	Chordata	Amphibia	Anura		Arthroleptidae	Arthroleptis	Arthroleptis wahlbergii Smith, 1849	
Atelopus andinus	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus andinus Rivero, 1968	
Atelopus pachydermus	Animalia	Chordata	Amphibia	Anura		Bufonidae	Atelopus	Atelopus pachydermus (Schmidt, 1857)	

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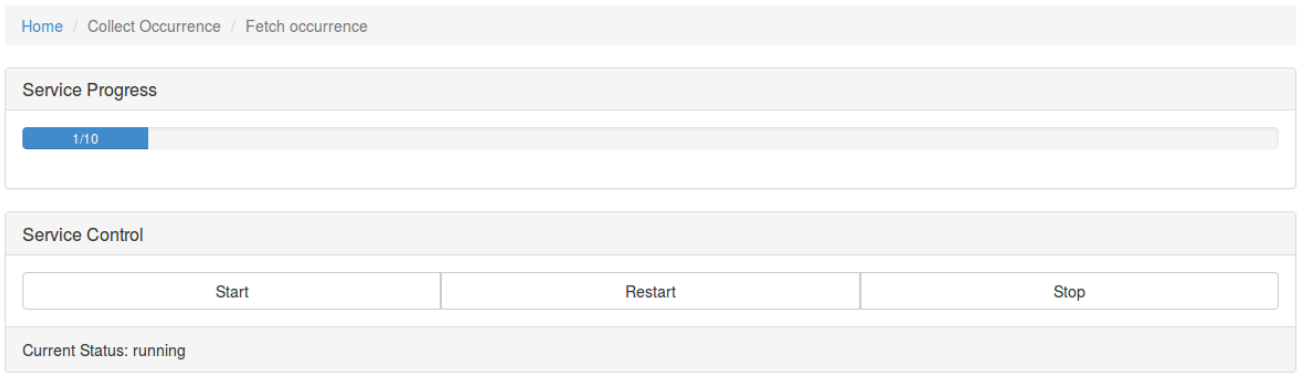
Control fetch occurrence:



Cross check
Why?

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species occurrence data come fro 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 method.

Cross check
How?

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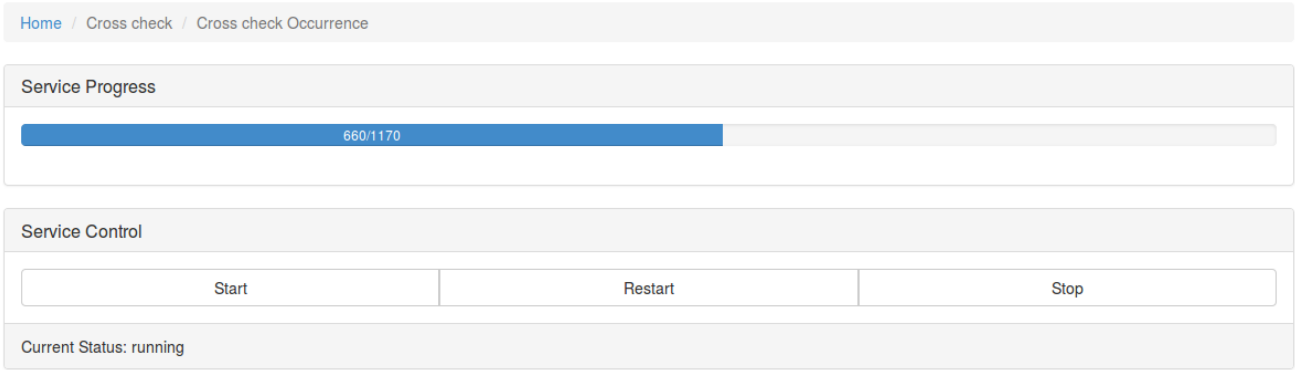
GBIF occurrence data with coordinate always come with country which the point belong to. Our cross check will check the coordinate with country, to check if it match. If not match that means this occurrence record may have some mistake.

Control cross check:

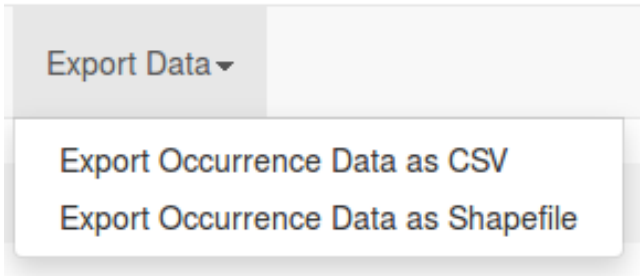


view cross check result:

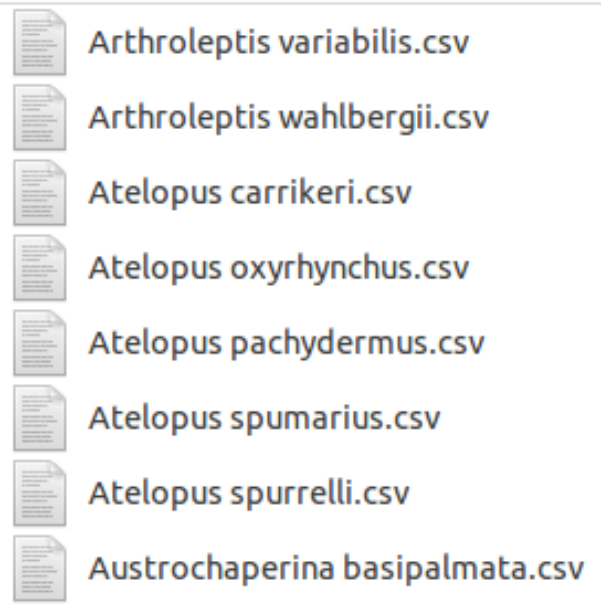
Home / Collect Occurrence / View Species cross check result

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:



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