

Естественнонаучные коллекции Югры: сбор, фиксация, хранение, введение в научный оборот
Ханты-Мансийск, 30 марта — 1 апреля 2021

Использование данных GBIF в научных исследованиях: введение

Наталья Иванова¹

Менторы: Николай Груданов², Нина Филиппова³, Иван Чадин⁴, Денис Санданов⁵

1 – ИМПБ РАН - филиал ИПМ им. М.В. Келдыша РАН (Пушино)

2 – УрФУ (Екатеринбург)

3 – ЮГУ (Ханты-Мансийск)

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Презентация. Использование данных GBIF - тематика и примеры исследований. 10 минут.

Упражнение. Выгрузка данных из GBIF о находках *Carabus nemoralis* O.F.Müller, 1764. 30 минут.

Учебные материалы (доступны на сайте gbif.ru)

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→ [Как получить данные, опубликованные в GBIF](#)

Презентация. Оценка качества данных. Правила цитирования данных GBIF в научных статьях. 20 минут.

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Literature type

- Journal article

Relevance

- GBIF used

Year

Topic

- Agriculture 273
- Biodiversity science 163
- Biogeography 423
- Citizen science 32
- Climate change 912
- Conservation 726
- Data management 54
- Data paper 33
- Ecology 1 397
- Ecosystem services 46
- Evolution 768
- Freshwater 31
- Human health 196
- Invasives 813
- Marine 70
- Phylogenetics 283
- Species distributions 250
- Taxonomy 337

Dataset

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- Yes

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ALL LITERATURE

Potential distribution of four vectors of American Cutaneous Leishmaniasis: the effect of El Niño and La Niña episodes from the perspective of the eco... Literature

Avila-Jimenez, J. Gutiérrez, J. Altamiranda-Saavedra, M. (2021) Acta Tropica
The potential distribution of four American Cutaneous Leishmaniasis vectors under average conditions during Neutral (in between episodes), El Niño, and La Niña episodes from 2000 to 2018 were constructed through ecological niche modeling. The potential distribution in El Niño and La Niña were compar...

Cutaneous leishmaniasis • Ecological niche modelling • Leishmaniasis • Potential distribution • Vectors
Journal article | Peer-reviewed
Data referenced in study [DOI 10.15468/dl.1uyzg0](#) [DOI 10.15468/dl.7vx6pn](#) [DOI 10.15468/dl.eo21ie](#)
[DOI 10.15468/dl.rak82y](#)

Impact of climate change on the Andean distribution of *Poa scaberula* (Poaceae) Literature

Scrivanti, L. Anton, A. (2021) Flora
Grasslands play an important ecological role and are the dominant landscape in the whole extent of the Andes and high elevation regions of South America. Climate change models indicate a strong impact on mountain systems. The climatic conditions of mountain systems are greatly influenced by topograp...

Andes • *Poa scaberula* • climate change • current and future suitable habitat • elevation • species distribution
Journal article | Peer-reviewed

Genome size drives ecological breadth in Pomacentridae reef fishes Literature

dos Santos, E. Martinez, P. Souza, G. Jacobina, U. (2021) Journal of Experimental Marine Biology and Ecology
Genome size (GS) is known to vary widely among fishes. However, evolutionary drivers that shape this variation are largely unknown in Pomacentridae. GS information is available for several Pomacentridae species, which have adapted over evolutionary time mainly in reef environments. In the present st...

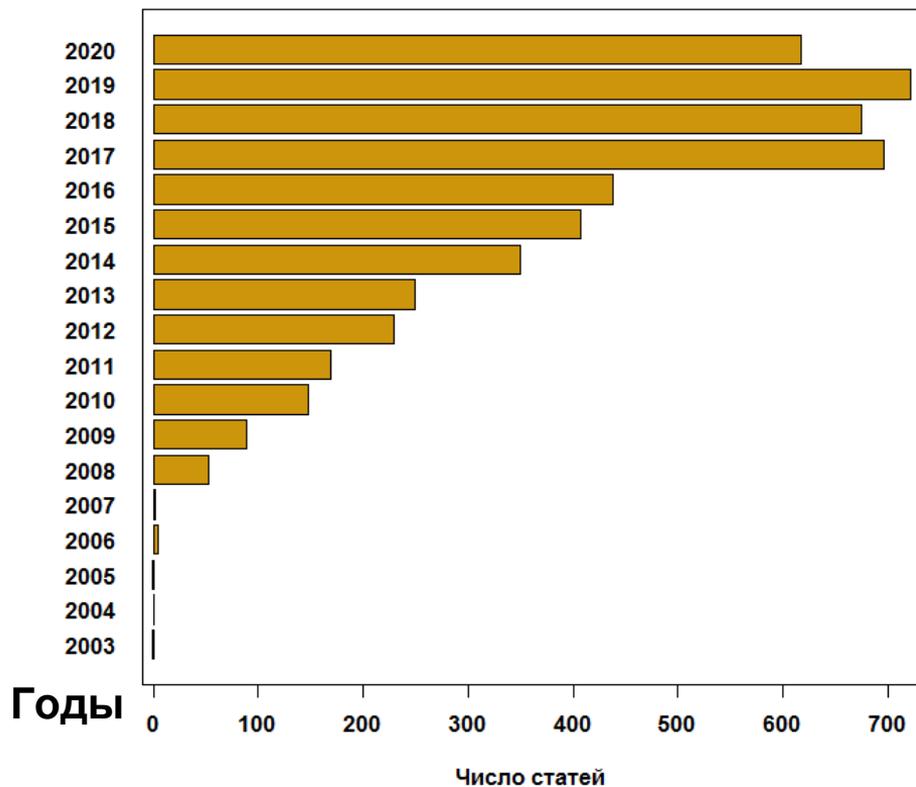
Actinopterygii • Convergence • Ecological niche • Parallelism • Phylogenetic comparative methods
Journal article | Peer-reviewed

Biological Flora of Central Europe: *Impatiens glandulifera* Royle Literature

Helsen, K. Diekmann, M. Decocq, G. De Pauw, K. Govaert, S. Graae, B. ... - (2021) Perspectives in Plant Ecology, Evolution and Systematics
This paper presents all current knowledge on the biology of the invasive therophyte *Impatiens glandulifera* Royle (Himalayan Balsam), and covers aspects of taxonomy, morphology, distribution, habitat requirements, ecology, life cycle, genetics, history of invasive spread, ecological impact and manage...

Annual plant • Himalayan balsam • Invasion impact • invasive alien species • management • spread
Journal article | Peer-reviewed

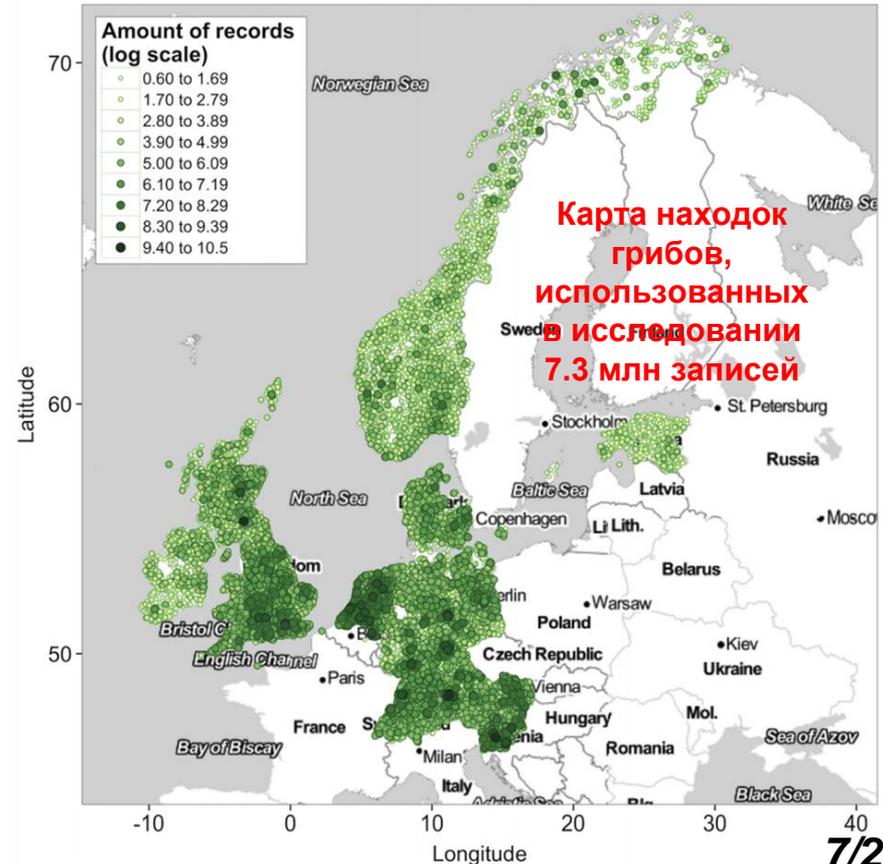
GBIF science review: самые интересные исследования, выполненные на основе данных GBIF



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Big data integration: Pan-European fungal species observations assembly for addressing contemporary questions in ecology and global change biology

- Таксономический анализ
- Анализ сходства сообществ грибов в разных регионах
- Фенология появления плодовых тел
- Научный потенциал собранного набора данных
- Анализ данных с позиций глобальных изменений климата



Technical Focus
Big data integration: Pan-European fungal species observations' assembly for addressing contemporary questions in ecology and global change biology

Authors: ANDREWS¹, LEWIS², BEGGAN³, PAUL⁴, BIRBY⁵, CHISHAM⁶, JACOB⁷, HELLMANN-CLAUSEN⁸, FROGER⁹, KESJÄR-GRELLBERG¹⁰, THOMAS¹¹, KOTYK¹², BOUTIER¹³, SÉNÉCAL¹⁴, DE BONTORRE¹⁵, JEFFREY¹⁶, SIMON¹⁷, EDGE¹⁸, ALAN¹⁹, C. GANG²⁰, RAIN²¹, KALVORSENI²², KILIAN²³, HILLAND²⁴, JAKOB²⁵, HODGSON²⁶, FRIEDRICH²⁷, SYLVA²⁸, MADDY²⁹, HANSEN³⁰, KAUSCHEL³¹

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Andrew et al.

Fungal Biology Reviews, 2017

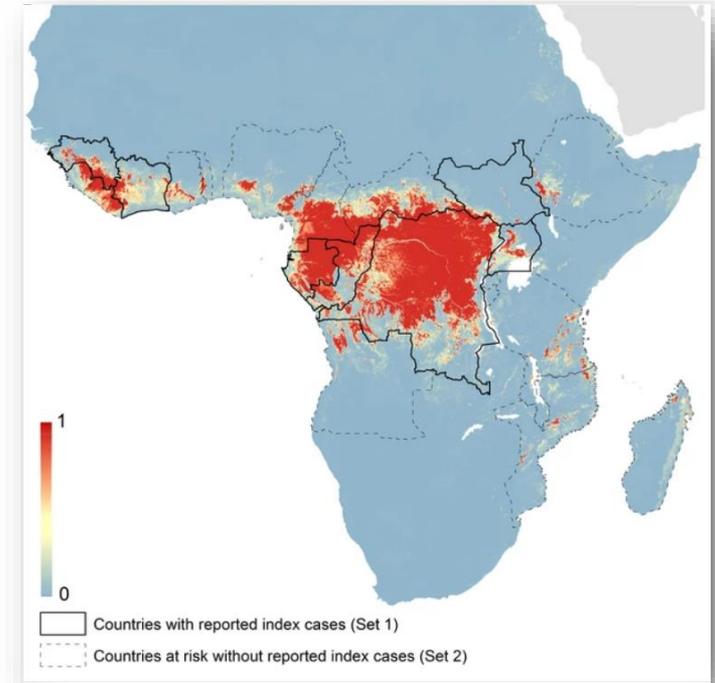
<https://doi.org/10.1016/j.fbr.2017.01.001>

Mapping the zoonotic niche of Ebola virus disease in Africa



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- Смоделированы экологические ниши трех видов летучих мышей, связанных с передачей вируса Эбола
- Данные получены из глобальной базы по биоразнообразию GBIF
- Результаты показали, что зоны риска охватывают 22 страны, население 22 миллиона чел.
- Результаты помогают расставить приоритеты в области эпидем. надзора и диагностики в зонах повышенного риска



**Распространение вируса Эбола,
предсказанное моделью**

Упражнение

Выгрузка данных из GBIF
о находках *Carabus nemoralis* O.F.Müller, 1764

- Создайте поисковые запросы о находках *Carabus nemoralis* O.F.Müller, 1764 в мире и в России, следуя инструкциям. При необходимости создайте учетную запись пользователя.
- Обратите внимание на пространственное распределение находок. Какие выводы можно сделать из имеющихся данных?
- Выгрузите данные о находках *Carabus nemoralis* O.F.Müller, 1764 в мире и в России в формате SIMPLE. Результаты представьте в таблице:

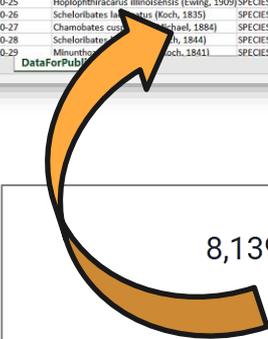
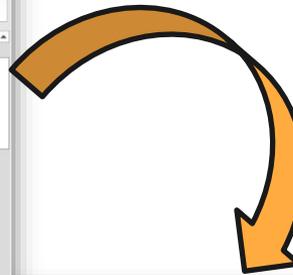
| | Находки в мире | Находки в России |
|---|----------------|------------------|
| DOI поискового запроса | | |
| Число записей | | |
| Из каких наборов данных происходят сведения? Перечислите 3 самых больших | | |

Оценка качества данных

DataCleaningExample - Excel (Свой активности продукта)

Ачириетера колеоптрата (Linnaeus, 1758)

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|-------------|---|---------|------|------------|----|-----------|------------|---------|---------|---------|----|----|------------|------------|------------|--------------------|
| 5 | lee-2010-04 | Achipteria coleoptrata (Linnaeus, 1758) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0568 | 30.6463 | WGS1984 | 10 | 5 | ind / soil | caspen for | A.S. Zalts | Zaitsev A. IEE RAS |
| 6 | lee-2010-05 | Gallium obvia (Berlese, 1914) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0993 | 30.3815 | WGS1984 | 10 | 3 | ind / soil | rbog | A.S. Zalts | Zaitsev A. IEE RAS |
| 7 | lee-2010-06 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0993 | 30.3815 | WGS1984 | 10 | 1 | ind / soil | Bottomland | A.S. Zalts | Zaitsev A. IEE RAS |
| 8 | lee-2010-07 | Achipteria coleoptrata (Linnaeus, 1758) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1019 | 30.3891 | WGS1984 | 10 | 25 | ind / soil | emead for | A.S. Zalts | Zaitsev A. IEE RAS |
| 9 | lee-2010-08 | Medioplia hypophylla (Mahunka 1987) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1032 | 30.3907 | WGS1984 | 10 | 52 | ind / soil | creatbog | A.S. Zalts | Zaitsev A. IEE RAS |
| 10 | lee-2010-09 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.4417 | 30.6801 | WGS1984 | 10 | 36 | ind / soil | emeadow | A.S. Zalts | Zaitsev A. IEE RAS |
| 11 | lee-2010-10 | Microtrilia minima (Berlese, 1904) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.4417 | 30.6801 | WGS1984 | 10 | 26 | ind / soil | emeadow | A.S. Zalts | Zaitsev A. IEE RAS |
| 12 | lee-2010-11 | Rhyothrips duplicata (Grandjean 1953) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.4417 | 30.6801 | WGS1984 | 10 | 4 | ind / soil | emeadow | A.S. Zalts | Zaitsev A. IEE RAS |
| 13 | lee-2010-12 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.102 | 30.4306 | WGS1984 | 10 | 21 | ind / soil | emead for | A.S. Zalts | Zaitsev A. IEE RAS |
| 14 | lee-2010-13 | Parakalumnidae | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.057 | 30.6418 | WGS1984 | 10 | 15 | ind / soil | emead for | A.S. Zalts | Zaitsev A. IEE RAS |
| 15 | lee-2010-14 | Platynothrus peltifer (Koch, 1840) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.057 | 30.6418 | WGS1984 | 10 | 20 | ind / soil | emead for | A.S. Zalts | Zaitsev A. IEE RAS |
| 16 | lee-2010-15 | Xenillus tegeocranus (Hermann 1804) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.057 | 30.6418 | WGS1984 | 10 | 2 | ind / soil | emead for | A.S. Zalts | Zaitsev A. IEE RAS |
| 17 | lee-2010-16 | Hypophthiracrus illinoensis (Ewing, 1909) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.171 | 30.6404 | WGS1984 | 10 | 24 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 18 | lee-2010-17 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.171 | 30.6404 | WGS1984 | 10 | 3 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 19 | lee-2010-18 | Trichoribates trimaculatus (C.L.Koch, 1836) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.171 | 30.6404 | WGS1984 | 10 | 1 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 20 | lee-2010-19 | Opiella nova (Oudemans, 1902) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1042 | 30.39 | WGS1984 | 10 | 28 | ind / soil | Raised pe | A.S. Zalts | Zaitsev A. IEE RAS |
| 21 | lee-2010-20 | Nannhermannia dorsalis (Banks, 1896) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1042 | 30.39 | WGS1984 | 10 | 3 | ind / soil | Raised pe | A.S. Zalts | Zaitsev A. IEE RAS |
| 22 | lee-2010-21 | Phthiracarus globosus (Koch, 1841) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1019 | 30.3891 | WGS1984 | 10 | 1 | ind / soil | Spence for | A.S. Zalts | Zaitsev A. IEE RAS |
| 23 | lee-2010-22 | Opiella nova (Oudemans, 1902) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0984 | 30.3809 | WGS1984 | 10 | 2 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 24 | lee-2010-23 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0984 | 30.3809 | WGS1984 | 10 | 11 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 25 | lee-2010-24 | Zetomimus furcatus (Warburton & Pearce, 1915) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.0984 | 30.3809 | WGS1984 | 10 | 1 | ind / soil | Transition | A.S. Zalts | Zaitsev A. IEE RAS |
| 26 | lee-2010-25 | Hypophthiracrus illinoensis (Ewing, 1909) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 50.6452 | 57.1743 | WGS1984 | 10 | 12 | ind / soil | Raised pe | A.S. Zalts | Zaitsev A. IEE RAS |
| 27 | lee-2010-26 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.1743 | 30.6452 | WGS1984 | 10 | 1 | ind / soil | Raised pe | A.S. Zalts | Zaitsev A. IEE RAS |
| 28 | lee-2010-27 | Chamobates cucullatus (Michael, 1884) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.3531 | 30.8125 | WGS1984 | 10 | 1 | ind / soil | Raised pe | A.S. Zalts | Zaitsev A. IEE RAS |
| 29 | lee-2010-28 | Schelorbates laevigatus (Koch, 1841) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.3531 | 30.8125 | WGS1984 | 10 | 6 | ind / soil | Upland m | A.S. Zalts | Zaitsev A. IEE RAS |
| 30 | lee-2010-29 | Mirnotarion (Koch, 1841) | SPECIES | 2010 | 2010-06-0R | RU | Bezhanits | Polistovsk | 57.3531 | 30.8125 | WGS1984 | 10 | 4 | ind / soil | Upland m | A.S. Zalts | Zaitsev A. IEE RAS |



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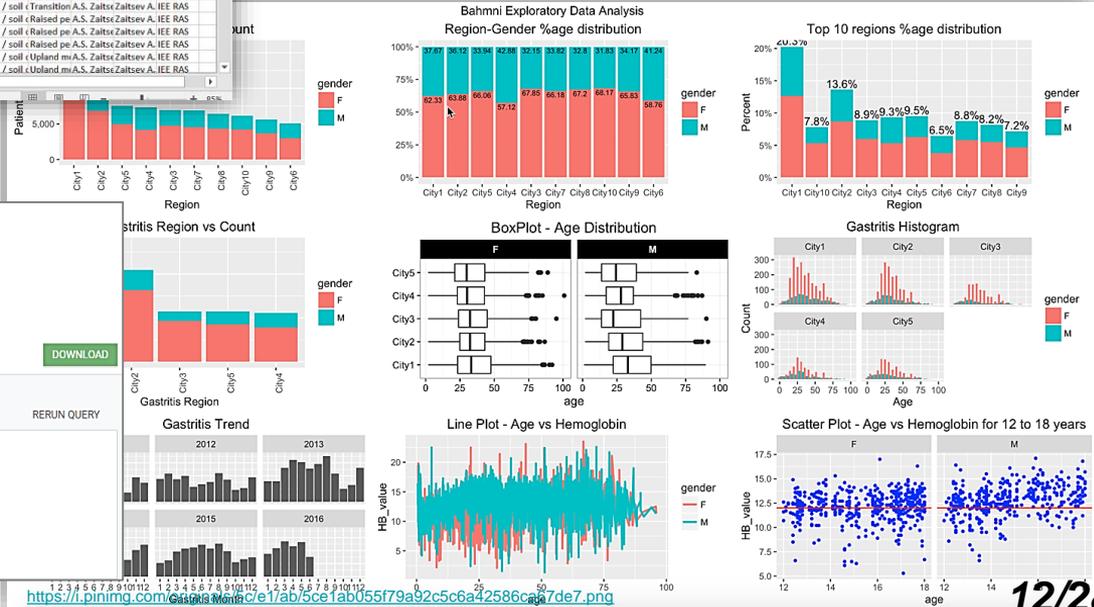
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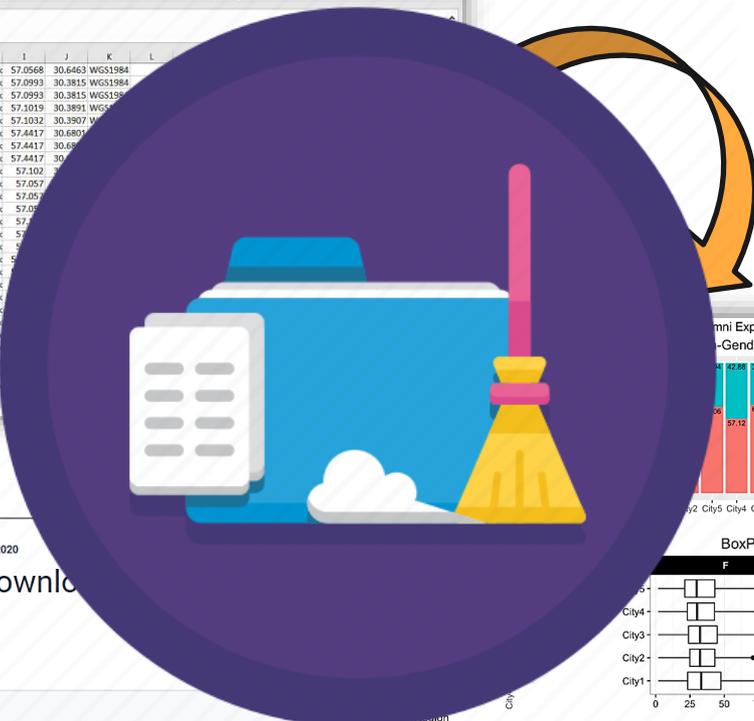
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DataCleaningExample - Excel (Свой активации продукта)

Ачиapteria coleoptrata (Linnaeus, 1758)

| № | A | B | C | D | E | F | G | H | I | J | K | L |
|----|-------------|---|---------|------|-------------|------------|------------|---------|---------|---------|---|---|
| 5 | lee-2010-04 | Achiapteria coleoptrata (Linnaeus, 1758) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.0568 | 30.6463 | WGS1984 | | |
| 6 | lee-2010-05 | Gallina obvia (Berlese, 1914) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.0993 | 30.3815 | WGS1984 | | |
| 7 | lee-2010-06 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.0993 | 30.3815 | WGS1984 | | |
| 8 | lee-2010-07 | Achiapteria coleoptrata (Linnaeus, 1758) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.1019 | 30.3891 | WGS1984 | | |
| 9 | lee-2010-08 | Medioplia hygrophila (Mahunka 1987) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.1032 | 30.3907 | WGS1984 | | |
| 10 | lee-2010-09 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.4417 | 30.6801 | WGS1984 | | |
| 11 | lee-2010-10 | Microtrilia minima (Berlese, 1904) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.4417 | 30.6801 | WGS1984 | | |
| 12 | lee-2010-11 | Rhyothrips duplicata (Grandjean 1953) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.4417 | 30.6801 | WGS1984 | | |
| 13 | lee-2010-12 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.102 | 30.3891 | WGS1984 | | |
| 14 | lee-2010-13 | Parakalumnidae | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 15 | lee-2010-14 | Platynothrus peltifer (Koch, 1840) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 16 | lee-2010-15 | Xenillus tegeocranus (Hermann 1804) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 17 | lee-2010-16 | Hoplophetraxus illinoisensis (Ewing, 1909) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 18 | lee-2010-17 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 19 | lee-2010-18 | Trichoribates trimaculatus (C.L.Koch, 1836) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 20 | lee-2010-19 | Opiella nova (Oudemans, 1902) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 21 | lee-2010-20 | Nannhermannia dorsalis (Banks, 1896) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 22 | lee-2010-21 | Phthiracarus globosus (Koch, 1841) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 23 | lee-2010-22 | Opiella nova (Oudemans, 1902) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 24 | lee-2010-23 | Tectocephus velatus (Michael 1880) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 25 | lee-2010-24 | Zetomimus furcatus (Warburton & Pearce, 15) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 26 | lee-2010-25 | Hoplophetraxus illinoisensis (Ewing, 1909) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 27 | lee-2010-26 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 28 | lee-2010-27 | Chamobates curvatus (Michael, 1884) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 29 | lee-2010-28 | Schelorbates laevigatus (Koch, 1835) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |
| 30 | lee-2010-29 | Mirumthrus (Koch, 1841) | SPECIES | 2010 | 2010-06-0RU | Bezhanitsi | Polistovsk | 57.057 | 30.3891 | WGS1984 | | |



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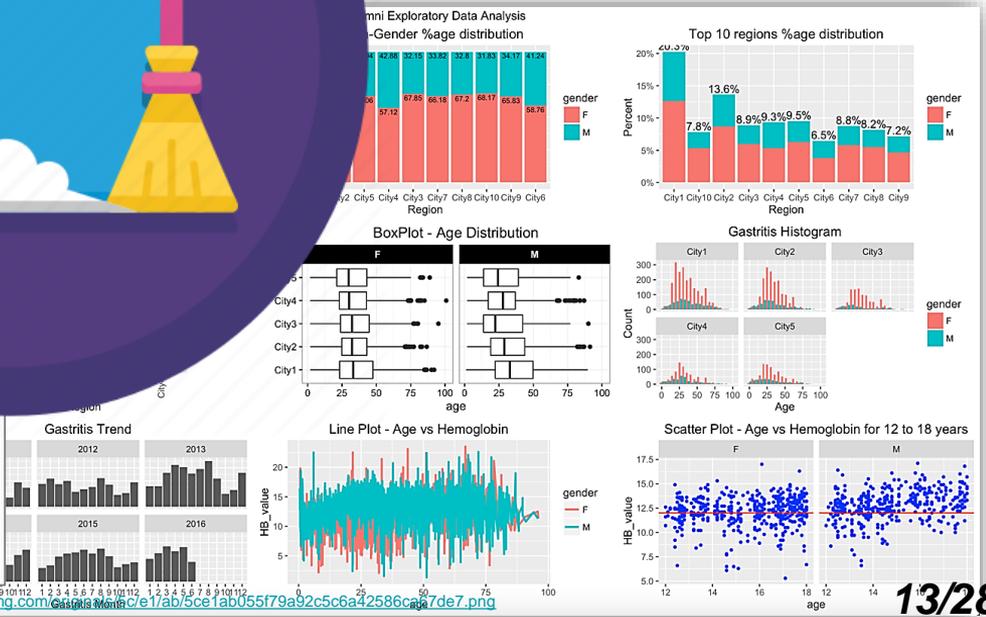
Citation: GBIF.org (30 August 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.b5wep8>

License: CC BY-NC 4.0

File: 1 MB Darwin Core Archive

Involved datasets: 43

Make sure to read the data user agreement and citation guidelines.



<https://i.pinimg.com/564x/55/79/a9/2c566a42586c6a7de7.png>

Данные всегда содержат ошибки

Качество данных – это относительная концепция, которая зависит от способа использования этих данных



Качество данных:
можно ли применить
полученные через GBIF данные
в вашем исследовании?



Arthur Chapman

ФОТО <https://github.com/ArthurChapman>

The image shows the cover of the book 'Principles of Data Quality' by Arthur D. Chapman. The cover features a photograph of a black and white moth on a green plant. The title 'PRINCIPLES OF DATA QUALITY' is printed in white capital letters at the top. Below the title, the author's name 'Arthur D. Chapman' is listed. A quote from Chrisman (1991) is included: 'Although most data gathering disciplines treat error as an embarrassing issue to be expunged, the error inherent in [spatial] data deserves closer attention and public understanding ...because error provides a critical component in judging fitness for use. (Chrisman 1991)'. The GBIF logo is at the bottom right, and contact information for Australian Biodiversity Information Services is at the bottom left.

Полный текст

Arthur D. Chapman¹

Although most data gathering disciplines treat error as an embarrassing issue to be expunged, the error inherent in [spatial] data deserves closer attention and public understanding ...because error provides a critical component in judging fitness for use. (Chrisman 1991).

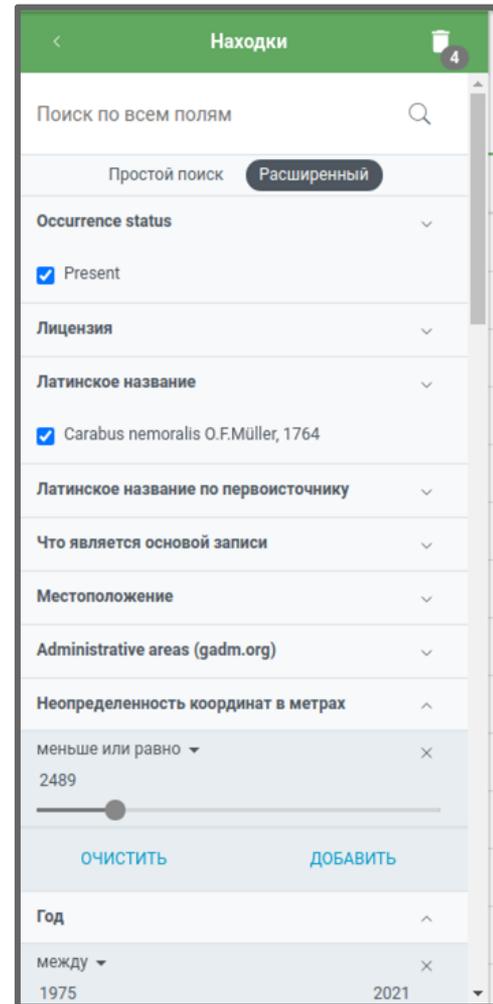


¹ Australian Biodiversity Information Services
PO Box 7491, Tweedvein South, QLD, Australia
email: papers.digit@gbif.org

Как получить качественные данные?

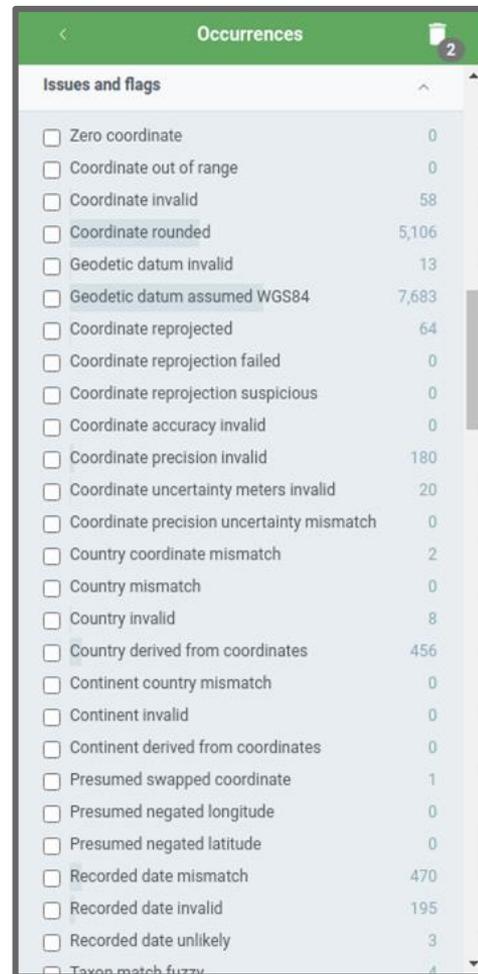
Задайте детальные параметры поиска!

Вы можете отфильтровать ненужные или подозрительные записи до выгрузки данных на свой компьютер.



Как получить качественные данные?

Обратите внимание на автоматически обнаруженные несоответствия



The screenshot shows a mobile application interface with a green header bar containing a back arrow, the title 'Occurrences', and a trash icon with a '2' notification badge. Below the header is a section titled 'Issues and flags' with an expandable arrow. The main content is a list of 28 items, each with a checkbox, a text label, and a numerical count. The items are: Zero coordinate (0), Coordinate out of range (0), Coordinate invalid (58), Coordinate rounded (5,106), Geodetic datum invalid (13), Geodetic datum assumed WGS84 (7,683), Coordinate reprojected (64), Coordinate reprojection failed (0), Coordinate reprojection suspicious (0), Coordinate accuracy invalid (0), Coordinate precision invalid (180), Coordinate uncertainty meters invalid (20), Coordinate precision uncertainty mismatch (0), Country coordinate mismatch (2), Country mismatch (0), Country invalid (8), Country derived from coordinates (456), Continent country mismatch (0), Continent invalid (0), Continent derived from coordinates (0), Presumed swapped coordinate (1), Presumed negated longitude (0), Presumed negated latitude (0), Recorded date mismatch (470), Recorded date invalid (195), Recorded date unlikely (3), and Taxon match fuzzy (4).

| Issue/Flag | Count |
|--|-------|
| <input type="checkbox"/> Zero coordinate | 0 |
| <input type="checkbox"/> Coordinate out of range | 0 |
| <input type="checkbox"/> Coordinate invalid | 58 |
| <input type="checkbox"/> Coordinate rounded | 5,106 |
| <input type="checkbox"/> Geodetic datum invalid | 13 |
| <input type="checkbox"/> Geodetic datum assumed WGS84 | 7,683 |
| <input type="checkbox"/> Coordinate reprojected | 64 |
| <input type="checkbox"/> Coordinate reprojection failed | 0 |
| <input type="checkbox"/> Coordinate reprojection suspicious | 0 |
| <input type="checkbox"/> Coordinate accuracy invalid | 0 |
| <input type="checkbox"/> Coordinate precision invalid | 180 |
| <input type="checkbox"/> Coordinate uncertainty meters invalid | 20 |
| <input type="checkbox"/> Coordinate precision uncertainty mismatch | 0 |
| <input type="checkbox"/> Country coordinate mismatch | 2 |
| <input type="checkbox"/> Country mismatch | 0 |
| <input type="checkbox"/> Country invalid | 8 |
| <input type="checkbox"/> Country derived from coordinates | 456 |
| <input type="checkbox"/> Continent country mismatch | 0 |
| <input type="checkbox"/> Continent invalid | 0 |
| <input type="checkbox"/> Continent derived from coordinates | 0 |
| <input type="checkbox"/> Presumed swapped coordinate | 1 |
| <input type="checkbox"/> Presumed negated longitude | 0 |
| <input type="checkbox"/> Presumed negated latitude | 0 |
| <input type="checkbox"/> Recorded date mismatch | 470 |
| <input type="checkbox"/> Recorded date invalid | 195 |
| <input type="checkbox"/> Recorded date unlikely | 3 |
| <input type="checkbox"/> Taxon match fuzzy | 4 |

Инструменты для поиска и исправления технических ошибок и ошибок в данных

Текстовые редакторы

- BBEdit (Mac)
- Notepad++ (Windows)
- Emacs, vi (Unix, Linux)

- R (командная строка)
- RStudio (графический пользовательский интерфейс)



Выберите то, что удобно вам!

Правила цитирования данных GBIF в научных статьях

Почему важно правильно цитировать данные, полученные через GBIF?

Данные сами по себе являются научным продуктом

Для этого данные должны быть:

Findable 

Легко обнаружимыми через Интернет

Accessible 

Доступными для исследователей

Interoperable 

Совместимыми друг с другом

Reusable 

Многokrратно используемыми
! Однозначное указание авторства
! Правила использования данных (лицензия)

Цитирование данных, доступных через GBIF, по DOI

OCCURRENCE DATASET | REGISTERED AUGUST 22, 2018

Flora of the Volga River basin

Published by [Institute of Ecology of the Volga river basin of Russian Academie of Sciences](#)
Stepan Senator • Sergei Saksonov • Vladimir Vasjukov

DATASET METRICS ACTIVITY DOWNLOAD

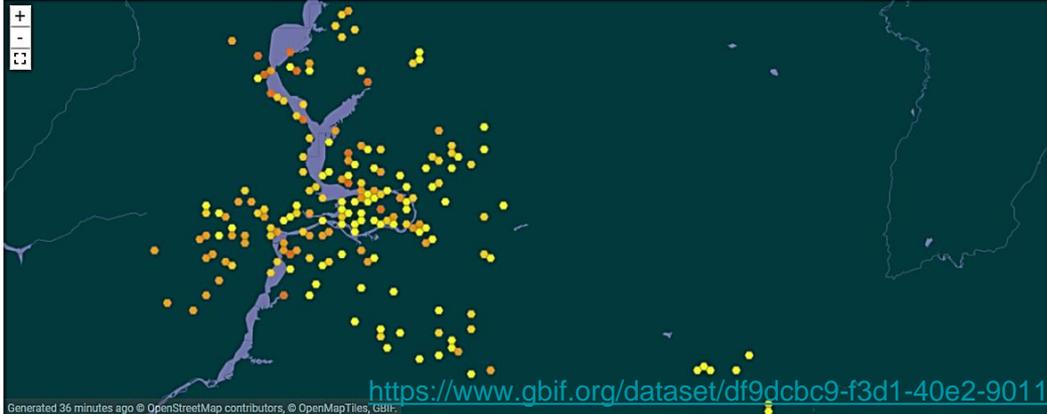
20,389 OCCURRENCES 32 CITATIONS

Data on the species diversity of vascular plants of The Middle Volga region are presented. The list of species is based on own research of the staff of the Laboratory of Problems of Phytodiversity of the Institute of Ecology of the Volga river basin of the Russian Academy of Sciences. All information is published in scientific journals or monographs. Herbarium specimens are stored in the Herbarium "Vascular Plants of the Volga river basin"(PVB), some doublets – in herbariums MW, LE, MHA, UPSU. Data processing was supported by a GBIF - FinBIF data mobilization grant for European Russia (Russia-02).

Project ID: Russia-02
Metadata last modified: June 20, 2019
Hosted by: Institute of Mathematical Problems of Biology RAS – the Branch of Keldysh Institute of Applied Mathematics of Russian Academy of Sciences
License: CC BY 4.0
How to cite **DOI** 10.15468/zwfslc

20,389 Occurrences 100% With taxon match 100% With coordinates 100% With year

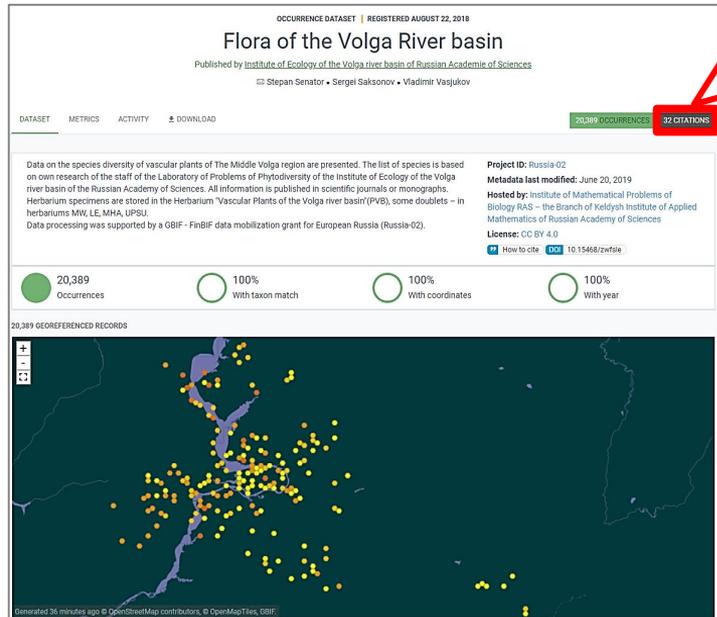
20,389 GEOREFERENCED RECORDS



<https://www.gbif.org/dataset/df9dcbc9-f3d1-40e2-9011-02babb0d98f6>

Generated 36 minutes ago © OpenStreetMap contributors, © OpenMapTiles, © GBIF.

Цитирование данных, доступных через GBIF, по DOI



Resources 2

SEARCH RESOURCES | 24 RESULTS

Search

Country or area of researcher

Country or area of coverage

Literature type

Relevance

Year

Topic

Dataset

Flora of the Volga River basin

Publisher

Peer-reviewed

All Yes No

Open access

Download key

Journal

Journal publisher

Read more about literature, how it's discovered and linked to GBIF-mediated data.

Conservation Gaps in Traditional Vegetables Native to Europe and Fennoscandia Literature

de Sousa, K. Solberg, S. (2020) Agriculture
Vegetables are rich in vitamins and other micronutrients and are important crops for healthy diets and diversification of the food system, and many traditional (also termed underutilized or indigenous) species may play a role. The current study analyzed 35 vegetables with a European region of divers...
crop wild relatives • ecosystem services • ensemble models • genetic diversity • plant genetic resources • species distribution models
Journal article | Open access | Peer-reviewed
Data referenced in study [DOI: 10.15468/dl.cagrkf](#)

Diversity of Reproductive Phenology Among Subtropical Grasses Is Constrained by Evolution and Climatic Niche Literature

Li, K. Wang, J. Qiao, L. Zheng, R. Ma, Y. Chen, Y. ... - (2020) Frontiers in Ecology and Evolution
Reproductive phenology is sensitive to climatic changes and is associated with species functional types, distribution ranges, and their corresponding climatic niches. Phylogenetic niche conservatism in reproductive phenology also constrains its diversity and the distribution of species. Therefore, w...
climatic niche • diversity • flowering phenology • geographic distribution • life history • photosynthetic pathway
Journal article | Open access | Peer-reviewed
Data referenced in study [DOI: 10.15468/dl.11paip](#) [DOI: 10.15468/dl.zpitzk](#) [DOI: 10.15468/dl.3pdwp7](#)
[DOI: 10.15468/dl.9gmhac](#) [DOI: 10.15468/dl.cka6u7](#) [DOI: 10.15468/dl.duinxw](#) [DOI: 10.15468/dl.or6moz](#)
[DOI: 10.15468/dl.enjaud](#) [DOI: 10.15468/dl.ea688](#) [DOI: 10.15468/dl.fuus5y](#) [DOI: 10.15468/dl.gteixh](#)
[DOI: 10.15468/dl.1f6cqh](#) [DOI: 10.15468/dl.isbnli](#) [DOI: 10.15468/dl.ihx4hp](#) [DOI: 10.15468/dl.lurvyk](#)
[DOI: 10.15468/dl.jmytxp](#) [DOI: 10.15468/dl.jvvcum](#) [DOI: 10.15468/dl.hqy2j](#) [DOI: 10.15468/dl.mj5suw](#)
[DOI: 10.15468/dl.njhnye](#) [DOI: 10.15468/dl.nqtrmp](#) [DOI: 10.15468/dl.oajz9e](#) [DOI: 10.15468/dl.oeznxj](#)
[DOI: 10.15468/dl.q566tu](#) [DOI: 10.15468/dl.qvbt4](#) [DOI: 10.15468/dl.rvq7gd](#) [DOI: 10.15468/dl.sv35ep](#)
[DOI: 10.15468/dl.tfvvsp](#) [DOI: 10.15468/dl.u0ec47](#) [DOI: 10.15468/dl.u88wm](#) [DOI: 10.15468/dl.lumpkqz](#)
[DOI: 10.15468/dl.vw6v5w](#) [DOI: 10.15468/dl.yrez75](#) [DOI: 10.15468/dl.zbnrcj](#) [DOI: 10.15468/dl.zjdwdb](#)

A Land Evaluation Framework for Agricultural Diversification Literature

Jahanshiri, E. Mohd Nizar, N. Tengku Mohd Suhairi, T. Gregory, P. Mohamed, A. Wimalasiri, E. ... - (2020) Sustainability
Shortlisting ecologically adaptable plant species can be a starting point for agricultural diversification projects. We propose a rapid assessment framework based on an ecological model that can accelerate the evaluation of options for sustainable crop diversification. To test the new model, expert...
agrobiodiversity knowledge • agroecology • intraspecies variation • land evaluation • underutilised crops
Journal article | Open access | Peer-reviewed
Data referenced in study [DOI: 10.15468/dl.2awr0f](#) [DOI: 10.15468/dl.zprn7v](#) [DOI: 10.15468/dl.6u9frc](#)
[DOI: 10.15468/dl.7ed68l](#) [DOI: 10.15468/dl.aqoffa](#) [DOI: 10.15468/dl.bb1xsm](#) [DOI: 10.15468/dl.bzndwe](#)
[DOI: 10.15468/dl.c8gv5s](#) [DOI: 10.15468/dl.cmtjyf](#) [DOI: 10.15468/dl.cufjzp](#) [DOI: 10.15468/dl.dze87c](#)
[DOI: 10.15468/dl.dymt0](#) [DOI: 10.15468/dl.e7bz5o](#) [DOI: 10.15468/dl.f0i8z7](#) [DOI: 10.15468/dl.fvdyk3z](#)



Citation guidelines

These guidelines provide the most common examples of citation by GBIF users.



Sunfly (*Helophilus pendulus*) on Chicory (*Cichorium intybus*) by Donald Hobern. Photo licensed under CC BY 4.0.

Правила цитирования данных, доступных через GBIF

Доступ к данным через сеть GBIF предоставляется бесплатно для всех, но не без обязательств. В соответствии с условиями [пользовательского соглашения](#), пользователи, которые загружают отдельные наборы данных или результаты поиска и используют их в исследованиях, соглашаются цитировать их, используя DOI.

Пример

Senator S, Saksonov S, Vasjukov V (2018). Flora of the Volga River basin. Version 1.2. Institute of Ecology of the Volga river basin of Russian Academy of Sciences. Occurrence dataset **DOI: 10.15468/zwfsle** accessed via GBIF.org on 2020-09-16.

**Мы использовали
данные из gbif.org**

=

**Мы использовали методику,
опубликованную в журнале
«Экология»**

Почему важно правильно цитировать данные, полученные через GBIF?

Данные в GBIF постоянно обновляются

Пример. Находки жужелиц (Carabidae) для территории России



30 августа 2020 г. **8 139** записей

DOWNLOAD | 30 AUGUST 2020

8,139 occurrences downloaded

DOI 10.15468/dl.b5wep8

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Citation: GBIF.org (30 August 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.b5wep8>
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File: 1 MB Darwin Core Archive
Involved datasets: 43
Make sure to read the [data user agreement](#) and [citation guidelines](#).

16 сентября 2020 г. **13 894** записи

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13,894 occurrences downloaded

DOI 10.15468/dl.zjersc

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Citation: GBIF.org (16 September 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.zjersc>
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Involved datasets: 45
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GBIF.org (30 August 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.b5wep8>

GBIF.org (16 September 2020) GBIF Occurrence Download <https://doi.org/10.15468/dl.zjersc>

Заключение

- Данные, доступные через GBIF, могут быть важным источником информации в вашем исследовании.
- Для получения качественных данных важно составить подробный поисковый запрос.
- Любые данные перед анализом нуждаются в критической оценке.
- Загружая данные через GBIF, вы обязуетесь при их использовании соблюдать условия Пользовательского соглашения.
- На данные необходимо ссылаться в списке литературы, также как и на другие источники (статьи, монографии, тезисы и др.)
- Правильное цитирование данных, полученных через GBIF, повышает их статус как надежного источника научной информации.

Домашнее задание

Создайте поисковый запрос о находках *Carabus nemoralis* O.F.Müller, 1764 по следующим критериям:

- Пространственный охват – весь мир.
- Только образцы из коллекций (меню поиска Basis of record).
- Записи, для которых страна сбора установлена по координатам (меню поиска Issues and flags), необходимо исключить.

Выгрузите данные в формате Darwin Core archive.

Ответьте на вопросы:

- Из каких наборов данных происходят полученные сведения?
- По какой лицензии распространяются выгруженные данные?
- Как ссылаться на полученные данные в научных статьях?

Выполненное задание вы можете прислать на адрес gbif.ru@yandex.ru до 15 апреля

Естественнонаучные коллекции Югры: сбор, фиксация, хранение, введение в научный оборот
Ханты-Мансийск, 30 марта — 1 апреля 2021

Использование данных GBIF в научных исследованиях: введение

gbif.ru@yandex.ru

Спасибо за внимание!

