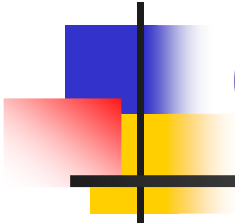


«Мысли глобально, действуй локально»

(П. Геддес, шотландский биолог и урбанист)



Для чего публиковать данные через глобальные системы о биоразнообразии?

А.П. Серёгин, д.б.н.,
в.н.с. Гербария МГУ

**Всероссийский третий научно-методический
семинар «Естественнонаучные коллекции
Югры: сбор, фиксация, хранение, введение в
научный оборот» (Ханты-Мансийск, 25-26**

апреля 2010 г.

База данных малых космических тел JPL

JPL Small-Body Database Browser

Search:

[help]

1P/Halley

Classification: Halley-type Comet* [NEO]

SPK-ID: 1000036

[Ephemeris | Orbit Diagram | Orbital Elements | Mission Design | Physical Parameters | Discovery Circumstances | Close-Approach Data]

[show orbit diagram]

alternate orbits: [epoch=1994-Feb-17.0] J863/77 (default) ▾

Orbital Elements at Epoch 2449400.5 (1994-Feb-17.0) TDB

Reference: JPL J863/77 (heliocentric ecliptic J2000)

Element	Value	Uncertainty (1-sigma)	Units
e	0.967142908462304	5.035e-09	
a	17.8341442925537	3.8913e-08	au
q	0.585978111516909	8.8924e-08	au
i	162.262690579161	6.7791e-06	deg
node	58.42008097656843	9.0539e-06	deg
peri	111.3324851045177	1.1714e-05	deg
M	38.3842644764388	1.4226e-07	deg
t _p	2446467.395317050925 (1986-Feb-05.89531705)	4.7896e-06	TDB
period	27509.1290731861	9.0034e-05	d
	75.32	2.465e-07	yr
n	.01308656479244564	4.2831e-11	deg/d
Q	35.08231047359043	7.6546e-08	au

Orbit Determination Parameters

# obs. used (total)	7428
data-arc span	57852 days (158.39 yr)
first obs. used	1835-08-21
last obs. used	1994-01-11
planetary ephem.	DE405
SB-perf. ephem.	SB405-CPV-2
norm. resid. RMS	1.0147
source	ORB
producer	M.S.W. Keesey
solution date	2001-Aug-02 13:51:39

Additional Information

Earth MOID = .0637815 au
T_{jup} = -0.605

Additional Model Parameters

Parameter	Value	Uncertainty (1-sigma)
A1 [EST]	2.696463929511566E-10	3.084E-11
A2 [EST]	1.554613388970244E-10	3.205E-15
S0 [EST]	861.6729585598083	16.03

[show covariance matrix]

[Ephemeris | Orbit Diagram | Orbital Elements | Mission Design | Physical Parameters | Discovery Circumstances | Close-Approach Data]

Physical Parameter Table

Parameter	Symbol	Value	Units	Sigma	Reference	Notes
comet total magnitude	M1	5.5		n/a	ICQ 2005 Handbook	
comet total magnitude slope	K1	8.0		n/a	ICQ 2005 Handbook	
comet nuclear magnitude	M2	13.6		n/a	ICQ 2005 Handbook	
comet nuclear magnitude slope	K2	5.0		n/a	ICQ 2005 Handbook	

База данных нуклеотидов NCBI



NCBI Resources How To Sign in to NCBI

Nucleotide

Nucleotide

Allium

Search

Create alert Advanced

Help

The Nucleotide database will include EST and GSS sequences in early 2019. [Read more.](#)

Species

Animals (130)

Plants (776,913)

Fungi (12,280)

Protists (126)

Bacteria (9,553)

Viruses (1,399)

Customize ...

Molecule types

genomic DNA/RNA (44,281)

mRNA (259,884)

rRNA (7)

Customize ...

Source databases

INSDC (GenBank) (796,724)

RefSeq (3,762)

Customize ...

Sequence Type

Nucleotide (744,957)

EST (44,510)

GSS (11,023)

Genetic

Summary 20 per page Sort by Default order

Send to: Filters: [Manage Filters](#)

Items: 1 to 20 of 800490

<< First < Prev Page 1 of 40025 Next > Last >>

☐ [Allium obliquum chloroplast, complete genome](#)

1. 152,387 bp circular DNA

Accession: NC_037199.1 GI: 1369122248

[BioProject](#) [Protein](#) [Taxonomy](#)

[GenBank](#) [FASTA](#) [Graphics](#)

☐ [Sequence 58 from Patent EP2164959](#)

2. 1,196 bp linear DNA

Accession: HI520601.1 GI: 311484586

[Taxonomy](#)

[GenBank](#) [FASTA](#) [Graphics](#)

☐ [Sequence 170 from Patent EP2199398](#)

3. 699 bp linear DNA

Accession: HC924135.1 GI: 300624690

[Taxonomy](#)

[GenBank](#) [FASTA](#) [Graphics](#)

Results by taxon

Top Organisms [\[Tree\]](#)

Allium cepa (609294)

Allium sativum (102682)

Allium fistulosum (55703)

Fusarium oxysporum (8496)

Pseudomonas coronafaciens (4159)

All other taxa (20156)

[More...](#)

Find related data

Database:

Select

Find items

Search details

"Allium"[Organism] OR Allium[All Fields]

Таксономическая база данных Catalogue of Life

Catalogue of Life: 26th February 2019
indexing the world's known species



English French Spanish Chinese **Russian** Portuguese Dutch German Polish Lithuanian Thai Vietnamese

Выбрать

Найти

О Каталоге

Найти все названия - Результаты для "Pinus"

Найдено записей: 1,336

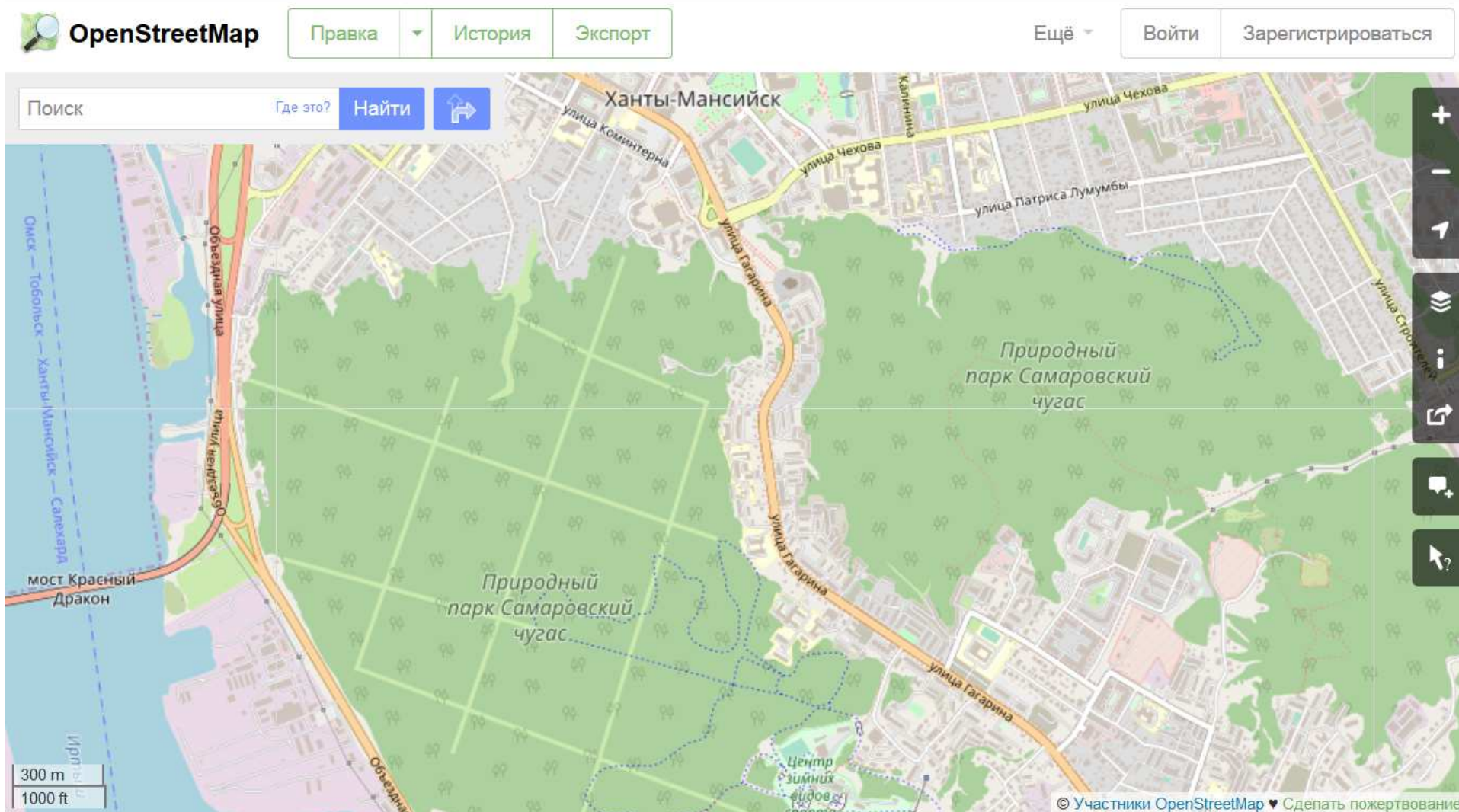
Записей на странице: 20 Обновить

Сохранить результаты поиска | Новый поиск

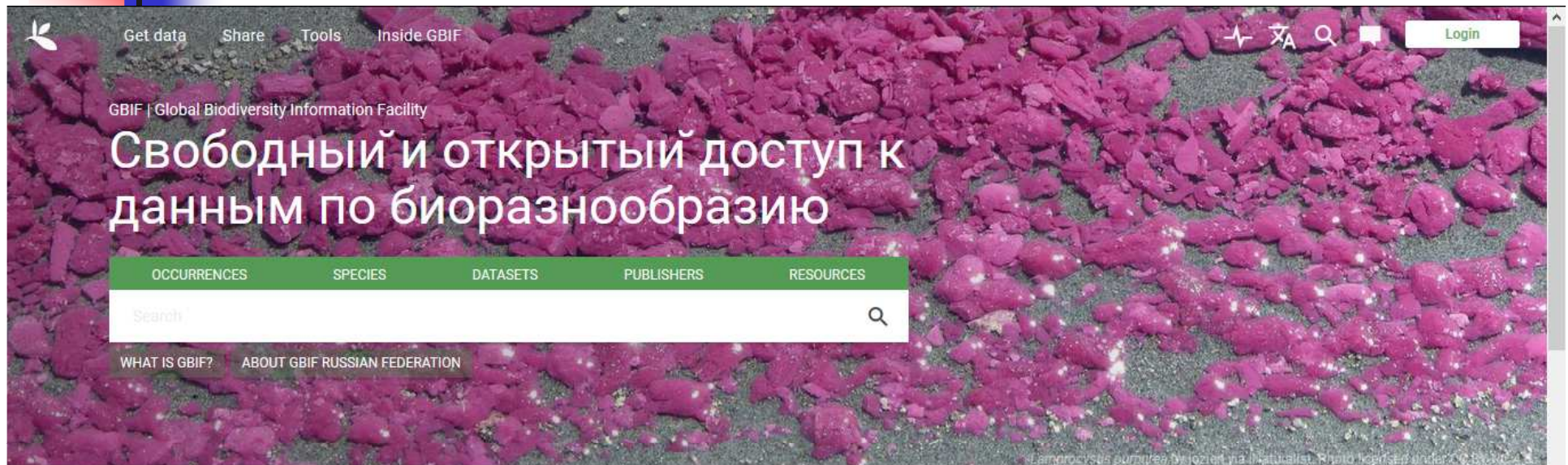
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | ... | 67 | Вперед >>

Название	Ранг	Статус названия	Таксон	Источник
<u>Pinus</u>	Род		Plantae	
<u>Pinus</u> <i>abasica</i> Carrière	Вид	синоним для <i>Pinus halepensis</i> Mill.	Plantae	
<u>Pinus</u> <i>abies</i> Du Roi	Вид	синоним для <i>Abies alba</i> Mill.	Plantae	
<u>Pinus</u> <i>abies</i> L.	Вид	синоним для <i>Picea abies</i> var. <i>abies</i>	Plantae	
<u>Pinus</u> <i>abies</i> Pall.	Вид	синоним для <i>Picea obovata</i> Ledeb.	Plantae	
<u>Pinus</u> <i>abies</i> f. <i>obovata</i> (Ledeb.) Voss	Внутривидовой таксон	синоним для <i>Picea obovata</i> Ledeb.	Plantae	

OpenStreetMap



Global Biodiversity Information Facility



Occurrence records
1 098 298 663



GBIF provides new home for the
Global Registry of Scientific
Collections
21 March 2019

Datasets
43 174



Global survey shows genetic
structure predicted by range size
and latitude
18 March 2019

Publishing institutions
1 374



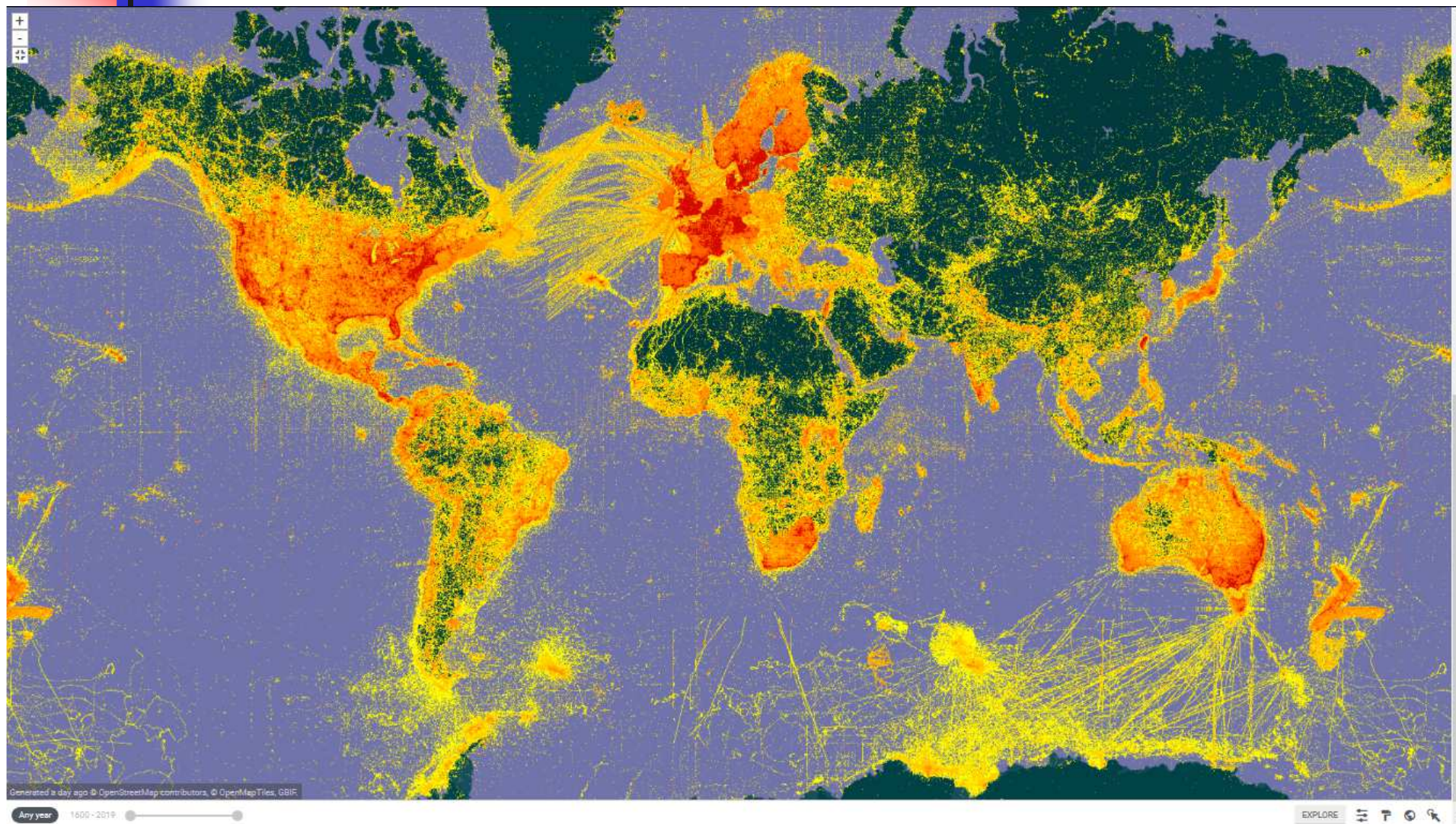
Blog post: Country centroids—What
are they and what to do about them?
21 March 2019


Peer-reviewed papers using data
3 574



Call for nominations to the 2019
GBIF Young Researchers Award
GBIF Secretariat deadline: 15 May 2019

Охват GBIF





Страны-лидеры: поставщики данных (1) и территориальность (2)

■	United States of America	356,724,941
■	United Kingdom	96,820,887
■	Sweden	82,423,277
■	Australia	74,945,798
■	France	65,078,427
■	Netherlands	57,526,279
■	Germany	46,500,701
■	Canada	42,975,200
■	Norway	31,990,055
■	Denmark	30,220,550
■	Finland	28,153,086
■	Spain	27,333,302
■	Belgium	23,382,907
■	South Africa	23,044,392
■	Mexico	10,303,662
■	Brazil	9,378,786
■	Colombia	7,917,239
■	Japan	7,005,087
■	Costa Rica	6,980,102

(1)

■	United States of America	330,597,452
■	Sweden	80,417,676
■	Australia	77,789,956
■	United Kingdom	65,934,749
■	France	58,269,646
■	Canada	50,665,185
■	Netherlands	48,890,328
■	Germany	38,113,261
■	Norway	31,894,655
■	Denmark	29,632,718
■	Finland	28,097,547
■	Spain	27,539,377
■	South Africa	22,464,954
■	Belgium	20,003,643
■	Mexico	14,263,020
■	Brazil	11,755,016
■	Costa Rica	8,494,299
■	Japan	6,659,115
■	Portugal	6,273,835

(2)

Какие данные есть в GBIF?

Get data Share Tools Inside GBIF

SEARCH OCCURRENCES | 1,098,298,729 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year	Basis of record	Data
<i>Accipiter nisus</i> Linnaeus, 1758	Germany	51.6N, 8.0E	2019 January	Human observation	na
<i>Acalypha wilkesiana</i> Müll.Arg.	Spain	28.7N, 17.9W	2019 January	Human observation	na
<i>Acer campestre</i> L.	Germany	48.9N, 10.3E	2019 January	Human observation	na
<i>Anser anser</i> (Linnaeus, 1758)	Germany	51.8N, 9.9E	2019 January	Human observation	na
<i>Aloe vera</i> (L.) Burm.f.	Spain	28.8N, 17.8W	2019 January	Human observation	na
<i>Anser anser</i> (Linnaeus, 1758)	Germany	50.0N, 10.2E	2019 January	Human observation	na
<i>Anser albifrons</i> (Scopoli, 1769)	Germany	50.4N, 8.9E	2019 January	Human observation	na
<i>Anser albifrons</i> (Scopoli, 1769)	Germany	51.3N, 9.2E	2019 January	Human observation	na
<i>Aythya fuligula</i> (Linnaeus, 1758)	Germany	51.2N, 6.9E	2019 January	Human observation	na
<i>Aythya fuligula</i> (Linnaeus, 1758)	Germany	50.7N, 11.4E	2019 January	Human observation	na
<i>Aythya fuligula</i> (Linnaeus, 1758)	Germany	50.7N, 11.4E	2019 January	Human observation	na
<i>Buteo buteo</i> Linnaeus, 1758	Germany	53.7N, 10.1E	2019 January	Human observation	na
<i>Buteo buteo</i> Linnaeus, 1758	Germany	48.9N, 9.3E	2019 January	Human observation	na

https://www.gbif.org/occurrence/1988293797



PUBLISHER | SINCE SEPTEMBER 2, 2014

Lomonosov Moscow State University

ABOUT  HOME PAGE

1,227,960 OCCURRENCES

8 DATASETS

81 CITATIONS

Description: The project of the Lomonosov Moscow State University "National Depository Bank of Live Systems" is focused on the creation of multi-functional network storage of biological material. The main goal of the Depository Bank is to preserve the biodiversity knowledge and to create new ways of biological material use. The portal of the Depository Bank <https://depo.msu.ru/> currently holds data on 700K specimens of plants, algae, fungi, and animals from numerous classical biological collections of the Moscow State University.

Part of "National Depository Bank of Live Systems", MSU Herbarium is the second largest herbarium of Russia with 10,000+ additional accessions annually. Loans and exchange are temporarily suspended. Historic collections of G. F. Hoffmann, J. F. Ehrhart, C. B. Trinius, I. Forster, and Herbarium Alchemillarum of V. N. Tikhomirov are stored separately. Specialty: worldwide vascular plants (including 4 500 types), but strong in the former U.S.S.R., especially European part (336 230 specimens), Caucasus (94 550 specimens), Crimea (30 690 specimens), Siberia and Russian Far East (152 920 specimens), and Central Asia and Kazakhstan (91 440 specimens); Mongolia (27 410 specimens); western and central Europe (40 050 specimens); other Asian countries (20 510 specimens); Eurasian bryophytes, but strong in Russia (56 300 specimens). No fungi, lichens, and algae. Date founded: 1765. Staff members are conducting research in many regions of Russia, Vietnam, Mongolia, Caucasian states, and other countries. Collections are not databased, beside a table with numbers of specimens per species per region. Type scanning is in progress.



ДЕПОЗИТАРИЙ
ЖИВЫХ СИСТЕМ
«НОЕВ КОВЧЕГ»

Endorsed by: [GBIF Finland](#)

Installations: [National Depository Bank of Live Systems Publishing Toolkit](#) • [MSU http](#)

Administrative contact: [Dr. Piotr A. Kamensky](#)

Technical contact: [Mr. Konstantin V. Skulachev](#)

Country or area: [Russian Federation](#)

Hosting: [8 datasets](#) (1 publisher • 1 country)



Что это даёт?

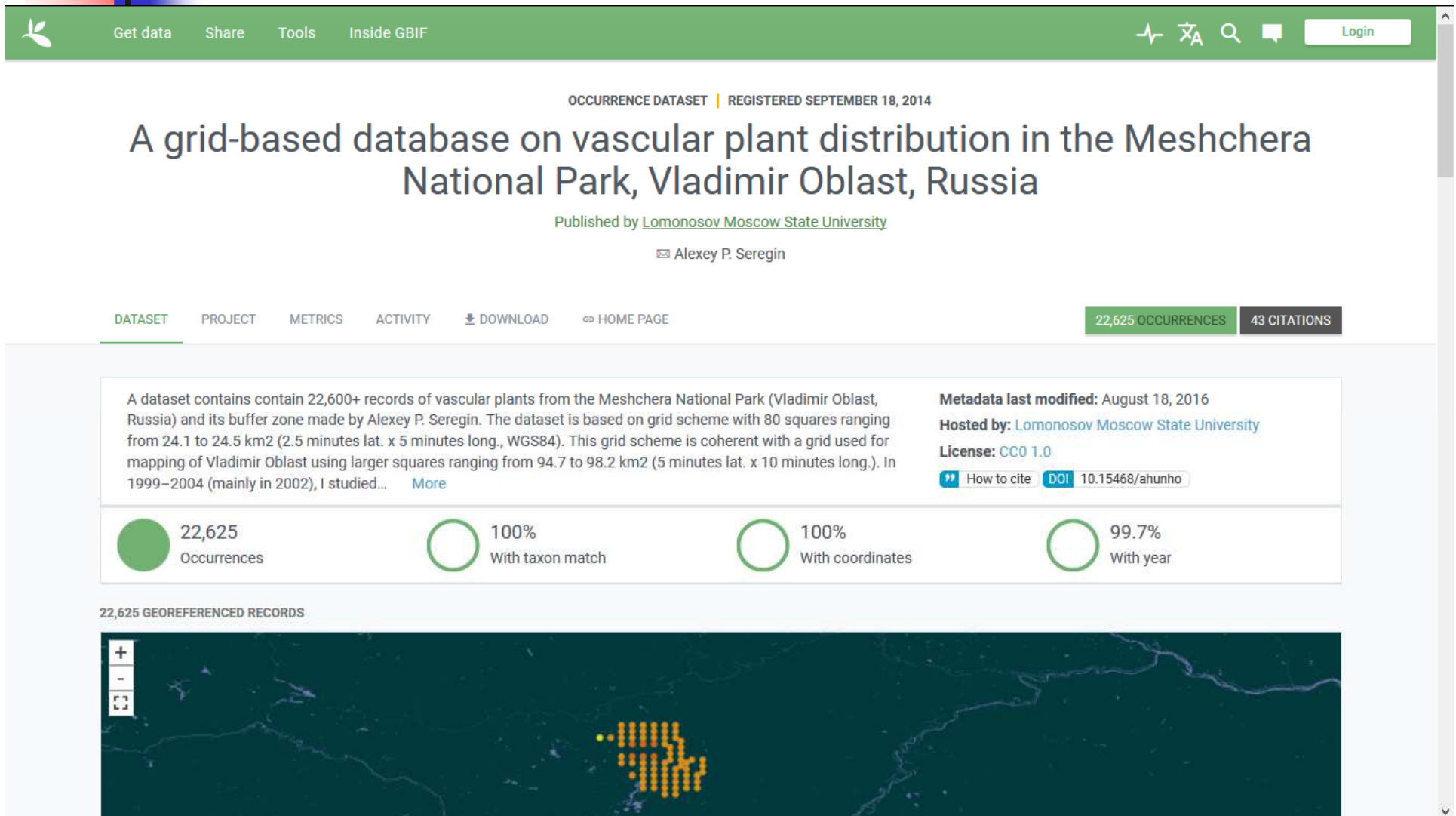
- миру?
- стране?
- университету?
- гербарию?
- мне?
- обществу?



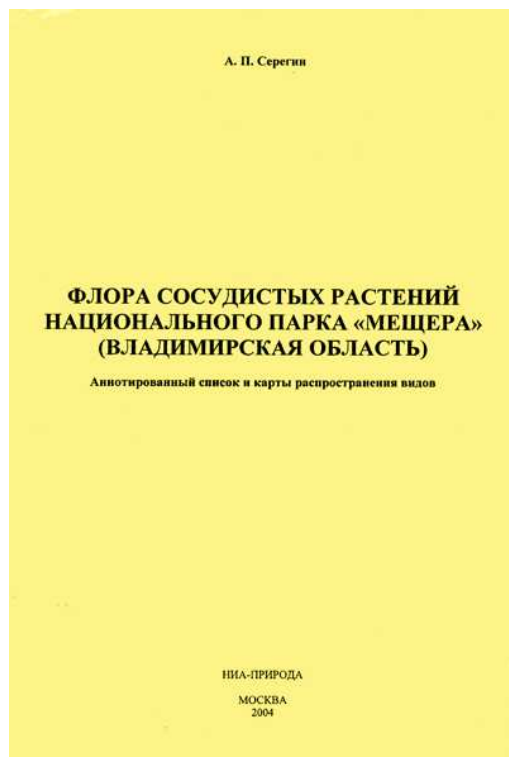
Для чего?

1. Для научного использования

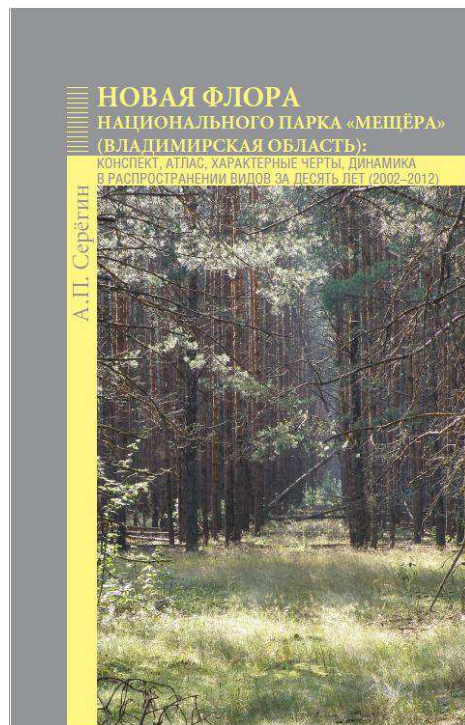
Первый массив данных (18.09.2014)



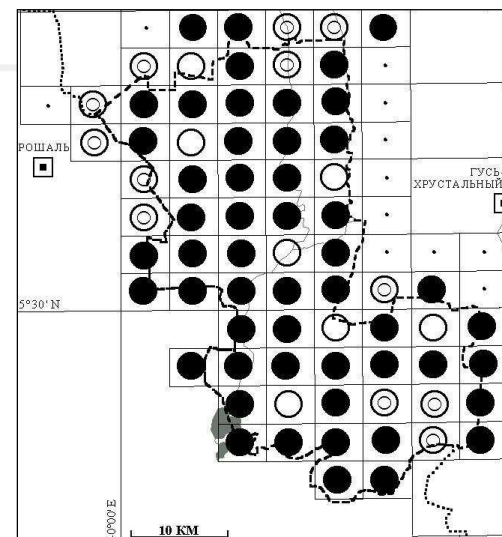
Сеточное картирование флоры НП «Мещёра»



Серегин, 2004

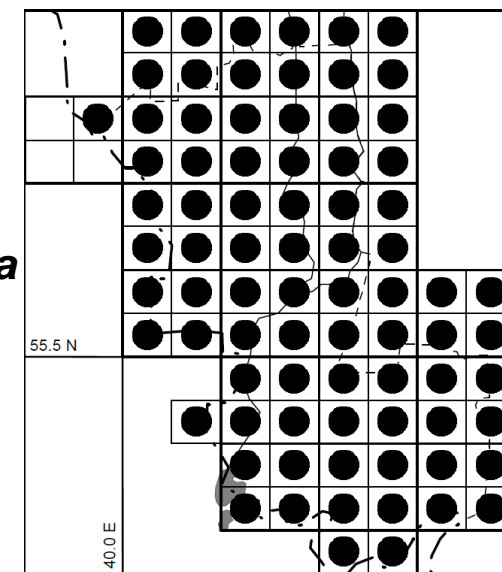


Серегин, 2013



2002 г.

Fragaria vesca



2012 г.



43 цитирования за 4,5 года

- **The global biogeography of polyploid plants**

Rice, A. Šmarda, P. Novosolov, M. Drori, M. Glick, L. Sabath, N. ... -
(2019) **Nature Ecology & Evolution**

- **Biotic resistance or introduction bias? Immigrant plant performance decreases with residence times over millennia**

Sheppard, C. Schurr, F. (2018) **Global Ecology and Biogeography**

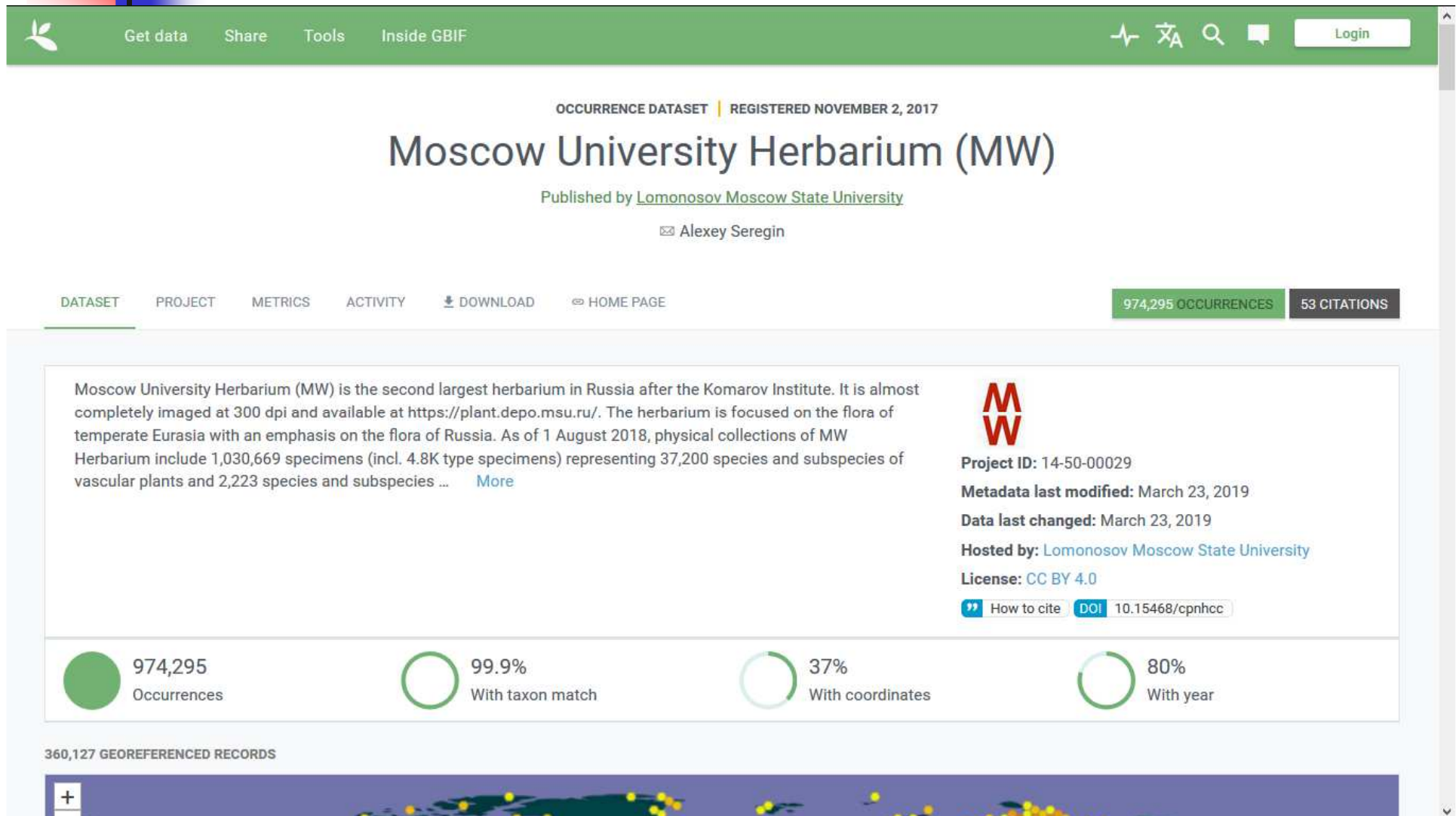
- **Predicting plant conservation priorities on a global scale**

Pelletier, T. Carstens, B. Tank, D. Sullivan, J. Espíndola, A. (2018)
Proceedings of the National Academy of Sciences

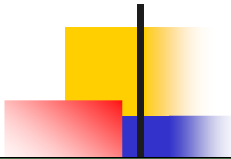
- **The future of hyperdiverse tropical ecosystems**






Barlow, J. França, F. Gardner, T. Hicks, C. Lennox, G. Berenguer, E.
... - (2018) **Nature**

Самый большой массив данных (2.11.2017)



Около 46 загрузок в день (среднее за 1,5 года)



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OCCURRENCE DATASET | REGISTERED NOVEMBER 2, 2017

Moscow University Herbarium (MW)

Published by [Lomonosov Moscow State University](#)

✉ Alexey Seregin

[DATASET](#) [PROJECT](#) [METRICS](#) [ACTIVITY](#) [DOWNLOAD](#) [HOME PAGE](#)

974,295 OCCURRENCES 53 CITATIONS

26,719 download events

595 OCCURRENCES FROM THIS DATASET

DOI 10.15468/dl.ml3ddc

Date: 23 March 2019

Occurrences: 3,581,114

Involved datasets: 1,059

And

Country or area

Spain

Basis of record

Preserved specimen

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Что выгружают?

Пример: чёрный саксаул

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DATASET PROJECT METRICS **ACTIVITY** DOWNLOAD HOME PAGE 974,295 OCCURRENCES 53 CITATIONS

81 OCCURRENCES FROM THIS DATASET

DOI 10.15468/dl.dti3fj **Occurrences:** 208
Date: 23 March 2019 **Involved datasets:** 25

Scientific name Haloxylon ammodendron (C.A.Mey.) Bunge ex E.Fenzl • Haloxylon ammodendron Bunge

SHOW

1 OCCURRENCE FROM THIS DATASET

DOI 10.15468/dl.y3lque **Occurrences:** 565
Date: 22 March 2019 **Involved datasets:** 50

Scientific name Helicteres lhotzkyana (Schott & Endl.) K.Schum.

RERUN QUERY SHOW

1 OCCURRENCE FROM THIS DATASET

Что выгружают?

Пример: диоскорея обыкновенная

https://www.gbif.org/dataset/902c8fe7-8f38-45b0-854e-c324fed36303/activity

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DATASET PROJECT METRICS **ACTIVITY** DOWNLOAD HOME PAGE

974,295 OCCURRENCES 53 CITATIONS

43 OCCURRENCES FROM THIS DATASET

DOI: 10.15468/dl.hdbfrg Occurrences: **205**
Date: 22 March 2019 Involved datasets: 8

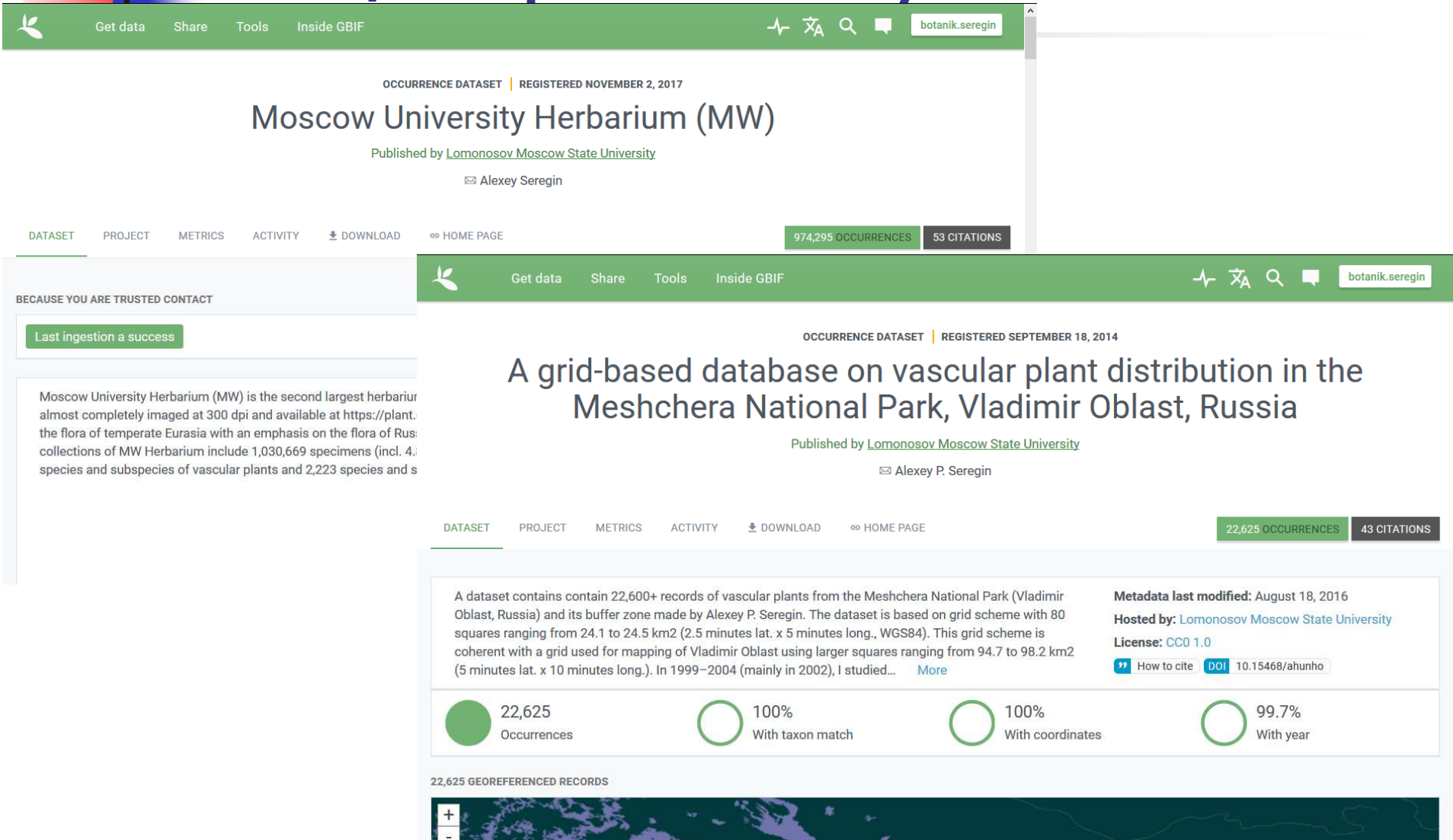

And

- Media type: StillImage
- Has coordinate: true
- Scientific name: *Tamus communis* L.
- Has geospatial issue: false

RERUN QUERY SHOW

974,273 OCCURRENCES FROM THIS DATASET

8 массивов данных и 81 цитирование у МГУ



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botanik.seregin

OCCURRENCE DATASET | REGISTERED NOVEMBER 2, 2017

Moscow University Herbarium (MW)

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974,295 OCCURRENCES 53 CITATIONS

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OCCURRENCE DATASET | REGISTERED SEPTEMBER 18, 2014

A grid-based database on vascular plant distribution in the Meshchera National Park, Vladimir Oblast, Russia

Published by [Lomonosov Moscow State University](#)





✉ Alexey P. Seregin

DATASET PROJECT METRICS ACTIVITY DOWNLOAD HOME PAGE

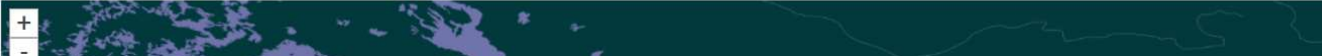
22,625 OCCURRENCES 43 CITATIONS

A dataset contains contain 22,600+ records of vascular plants from the Meshchera National Park (Vladimir Oblast, Russia) and its buffer zone made by Alexey P. Seregin. The dataset is based on grid scheme with 80 squares ranging from 24.1 to 24.5 km2 (2.5 minutes lat. x 5 minutes long., WGS84). This grid scheme is coherent with a grid used for mapping of Vladimir Oblast using larger squares ranging from 94.7 to 98.2 km2 (5 minutes lat. x 10 minutes long.). In 1999–2004 (mainly in 2002), I studied... [More](#)

Metadata last modified: August 18, 2016
Hosted by: [Lomonosov Moscow State University](#)
License: [CC0 1.0](#)
[How to cite](#) [DOI](#) [10.15468/ahunho](#)

 22,625 Occurrences	 100% With taxon match	 100% With coordinates	 99.7% With year
--	---	---	---

22,625 GEOREFERENCED RECORDS

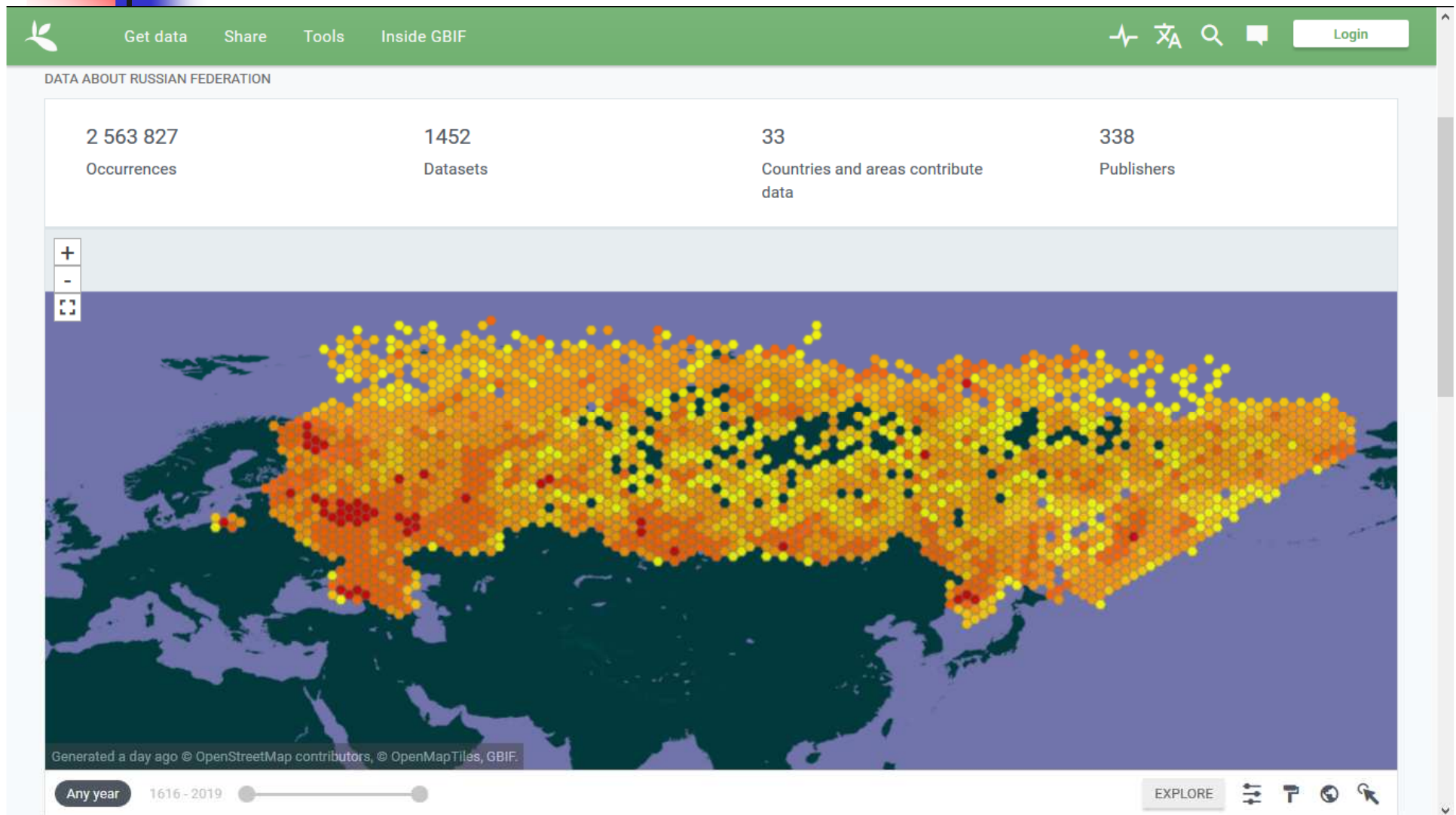




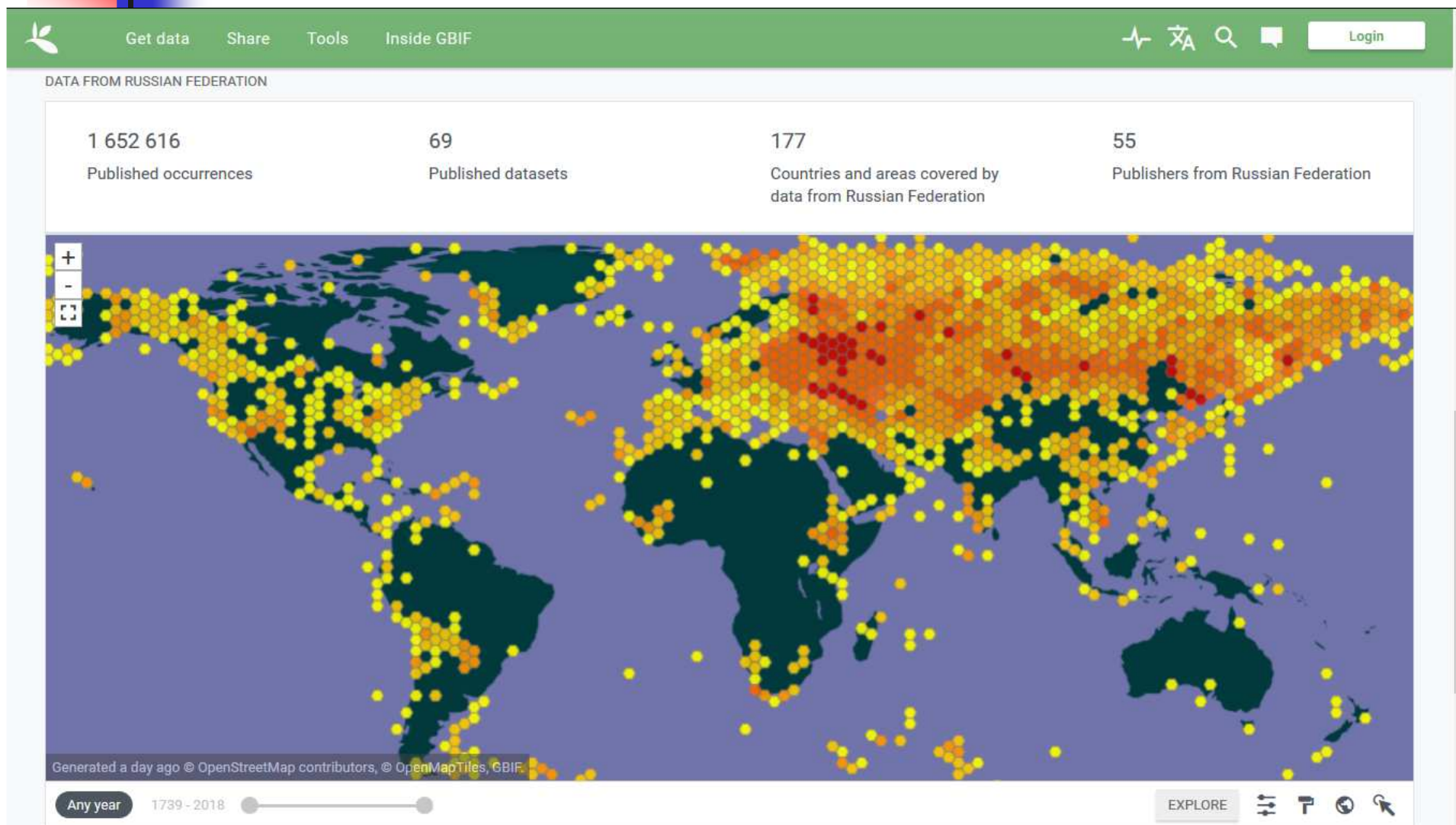
Для чего?

2. Для национального престижа

Россия в свете данных GBIF



Россия как поставщик данных в GBIF



«Большой скачок» в ноябре 2017 г.

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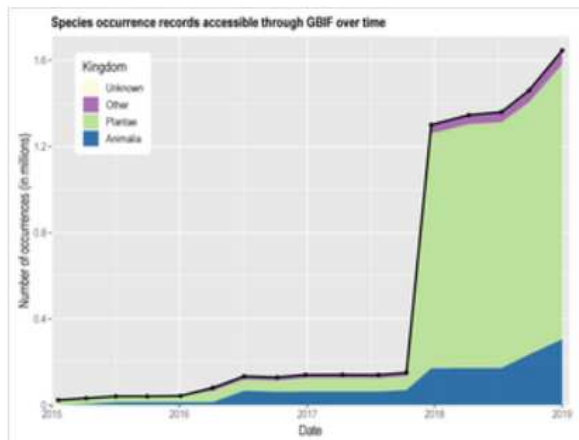
PUBLISHING TRENDS

Number of occurrence records

These charts illustrate the change in availability of the species occurrence records over time.

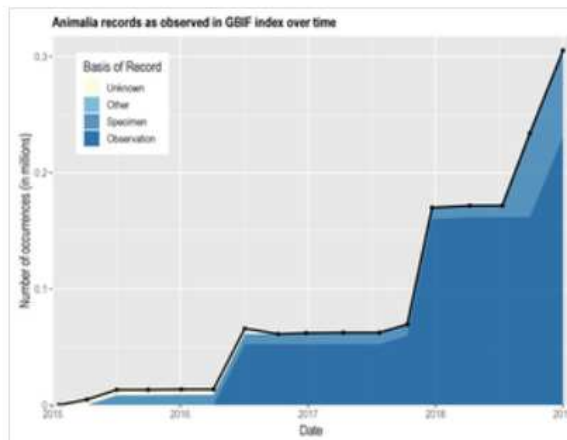
Records by kingdom

The number of available records categorized by kingdom. "Unknown" includes records with taxonomic information that cannot be linked to available taxonomic checklists.



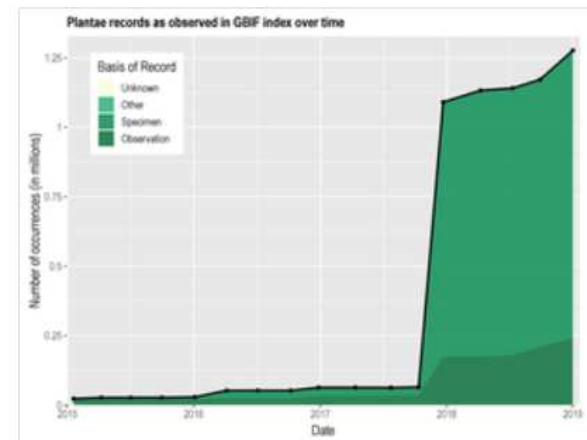
Records for Animalia

The number of animal records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognised value for basis of record.

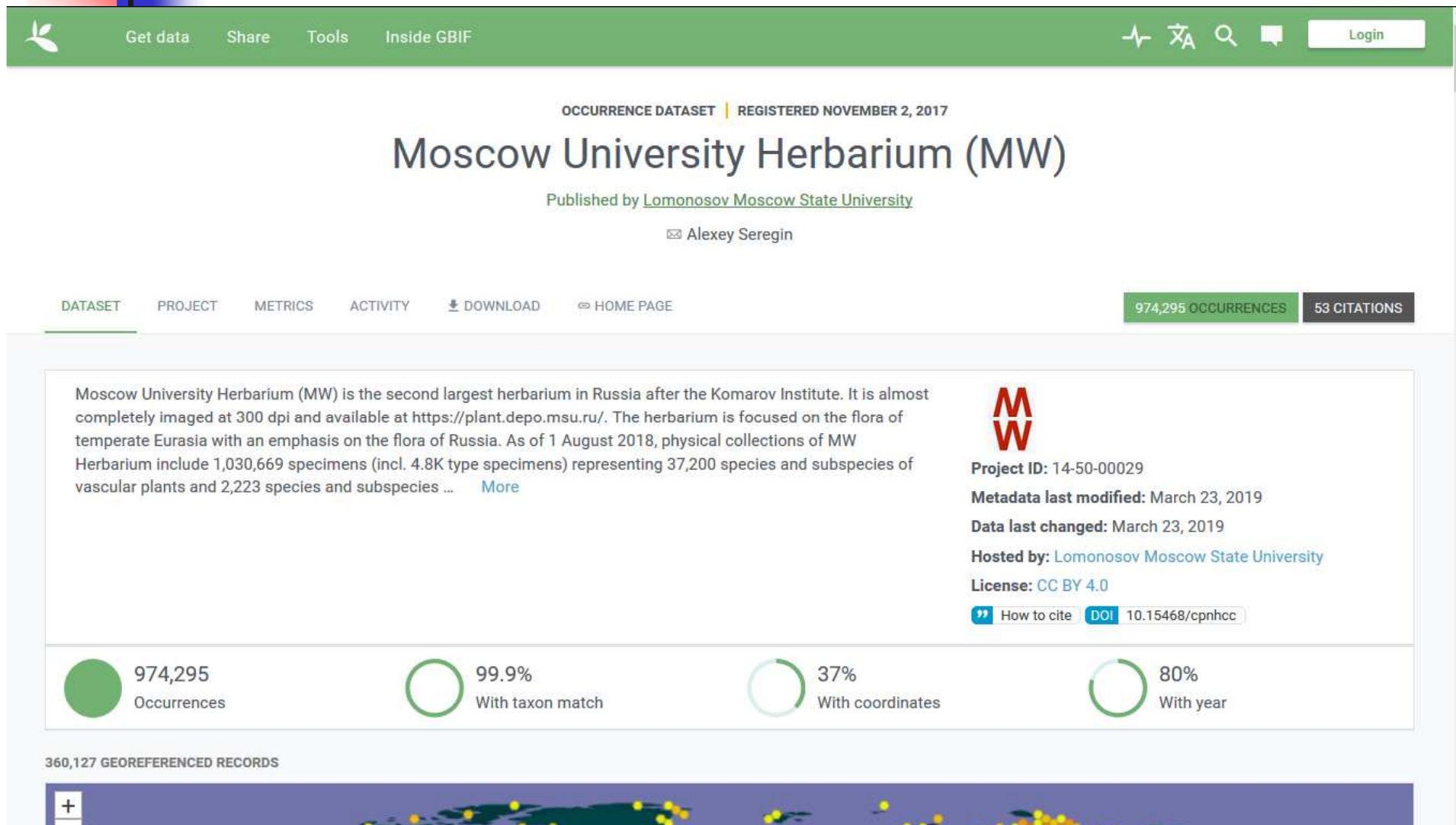


Records for Plantae

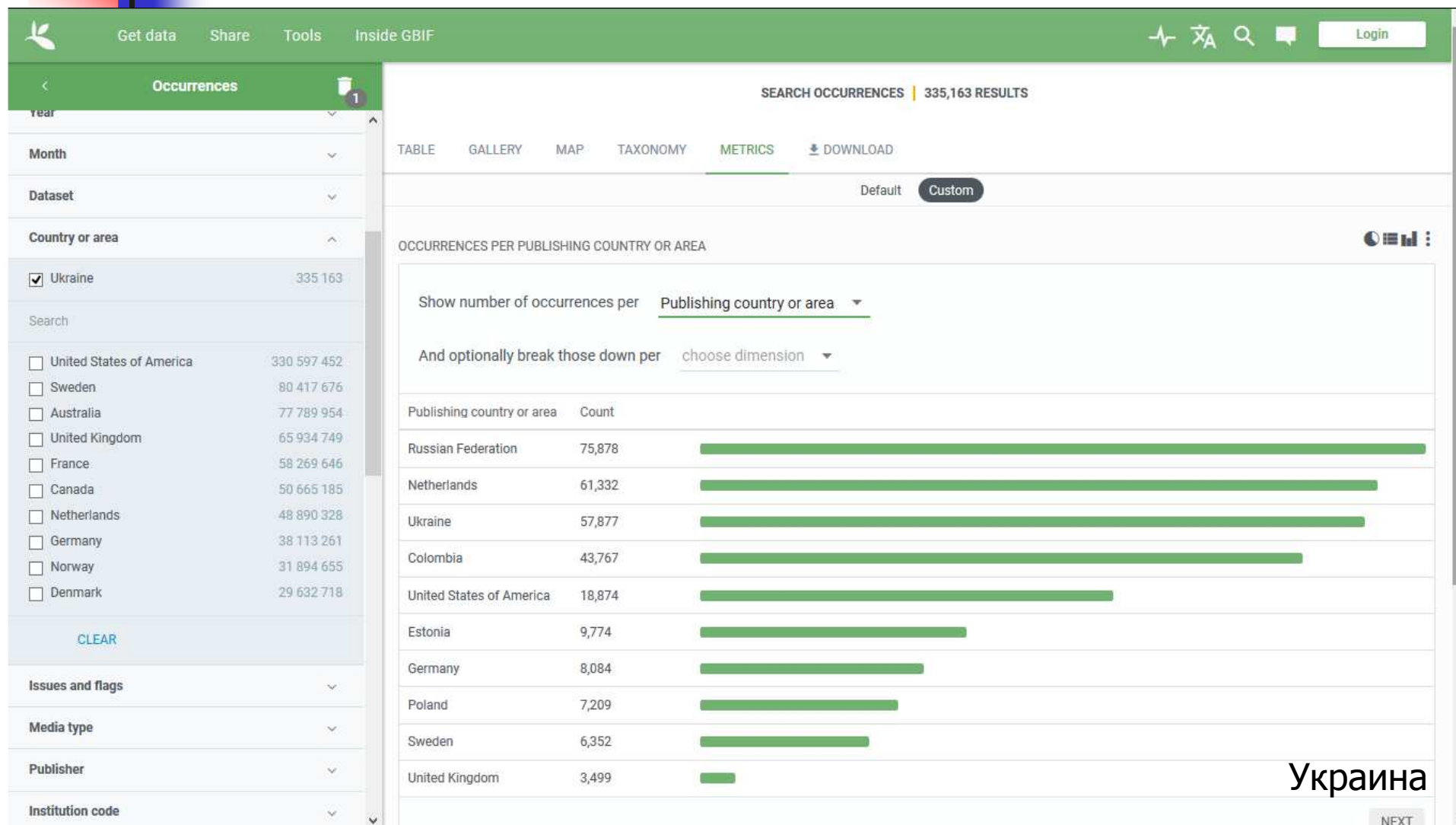
The number of plant records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognised value for basis of record.



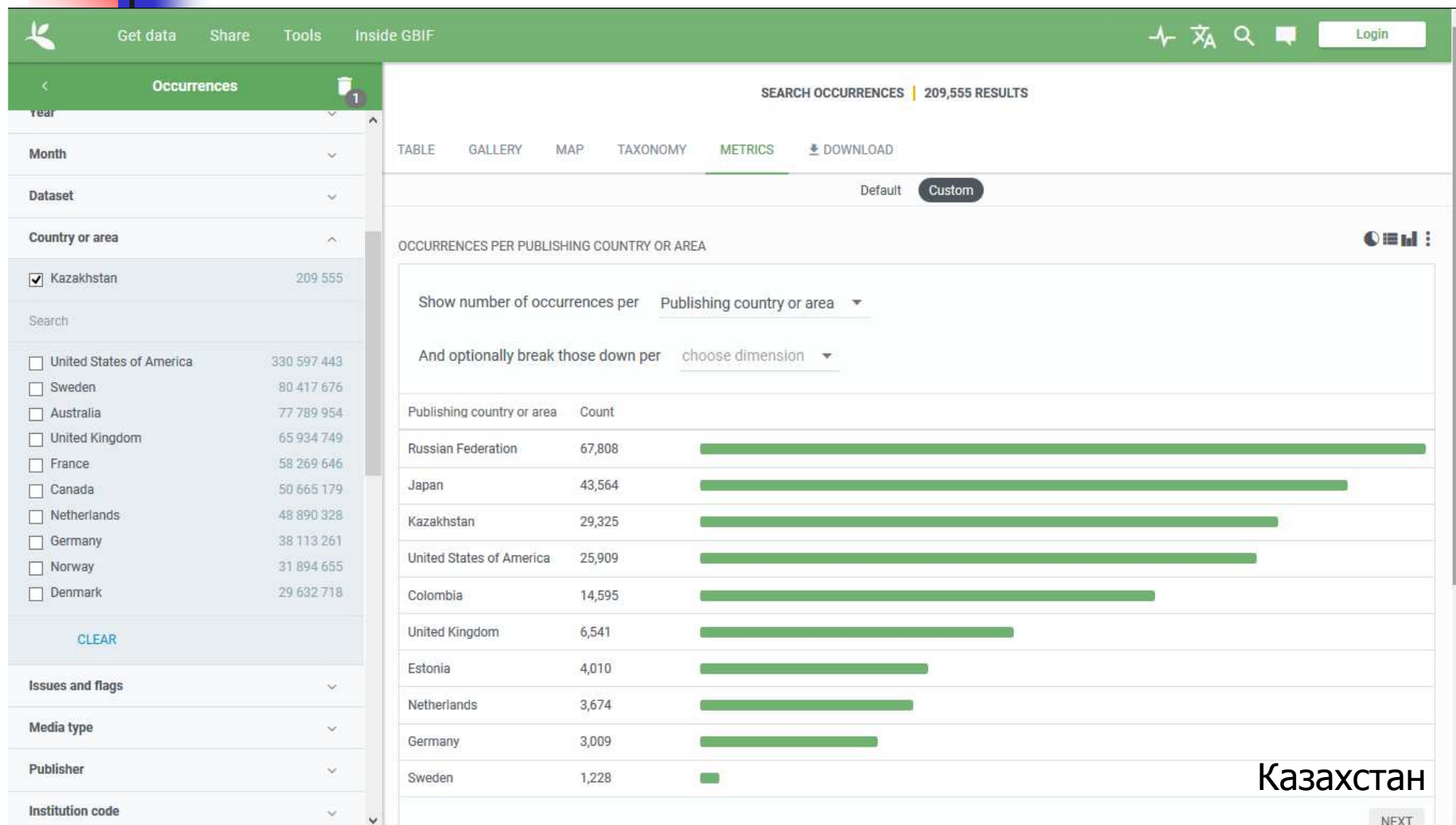
Массив данных Гербария МГУ



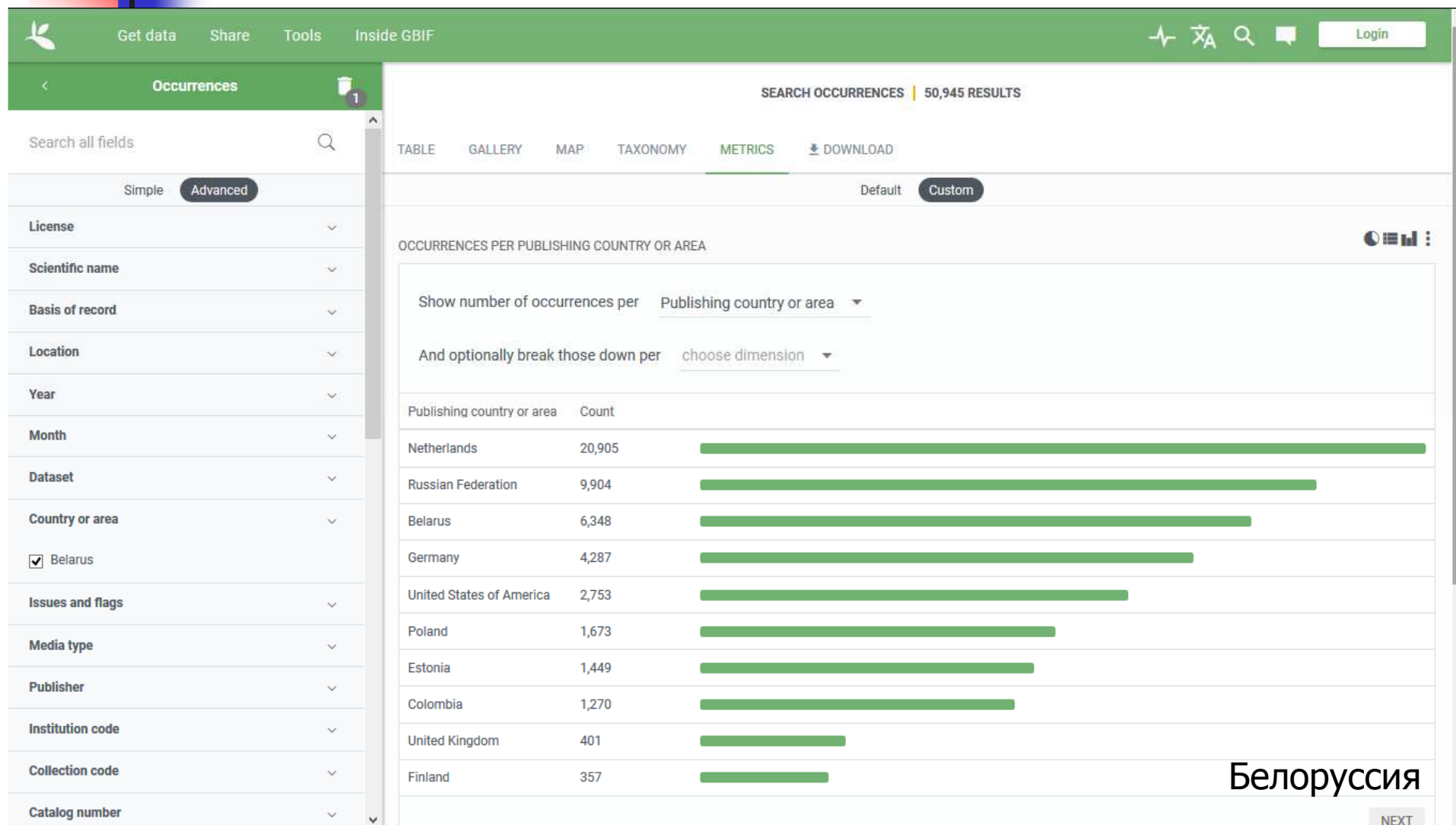
Россия как игрок мирового рынка данных: примеры



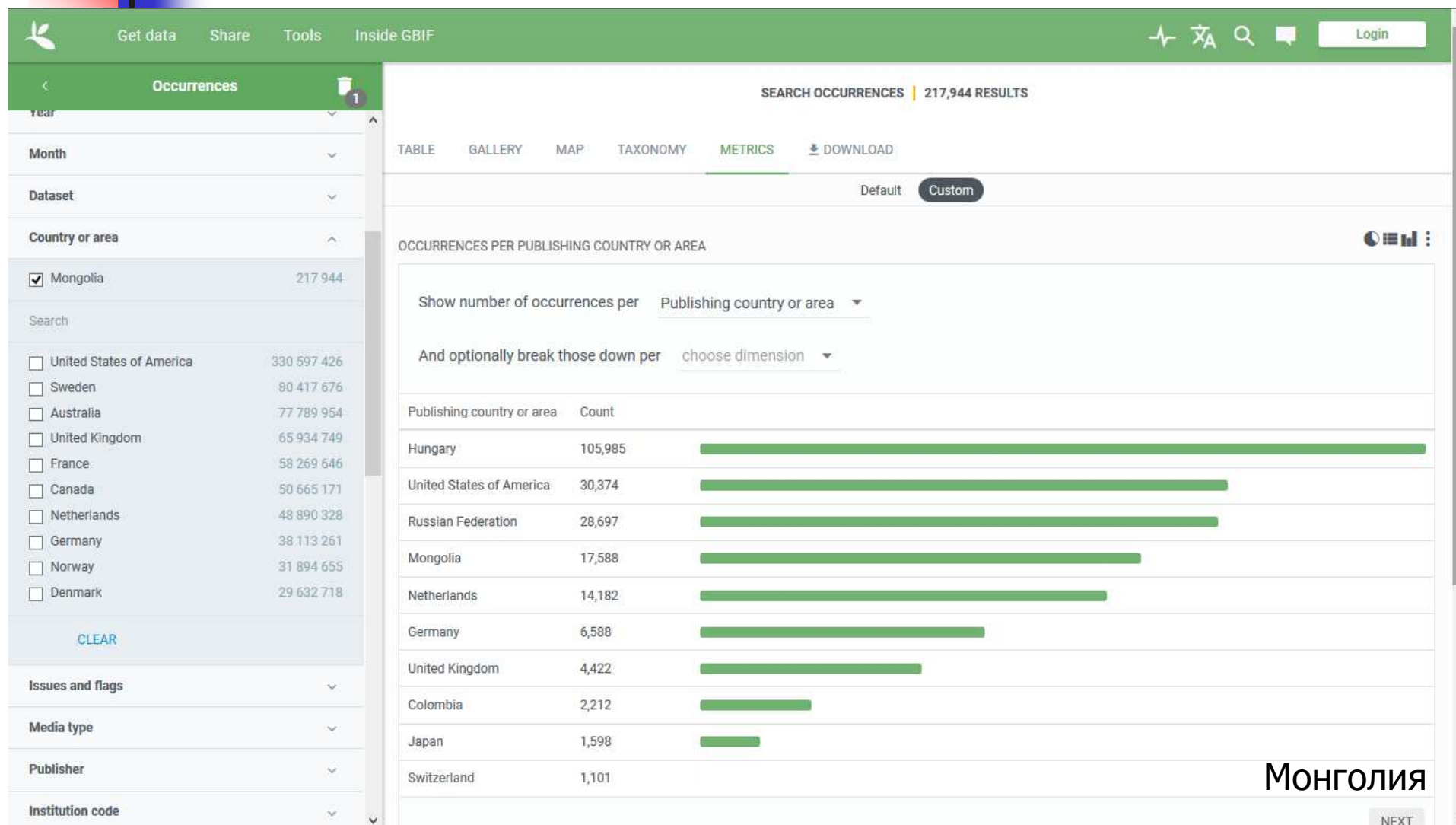
Россия как игрок мирового рынка данных: примеры



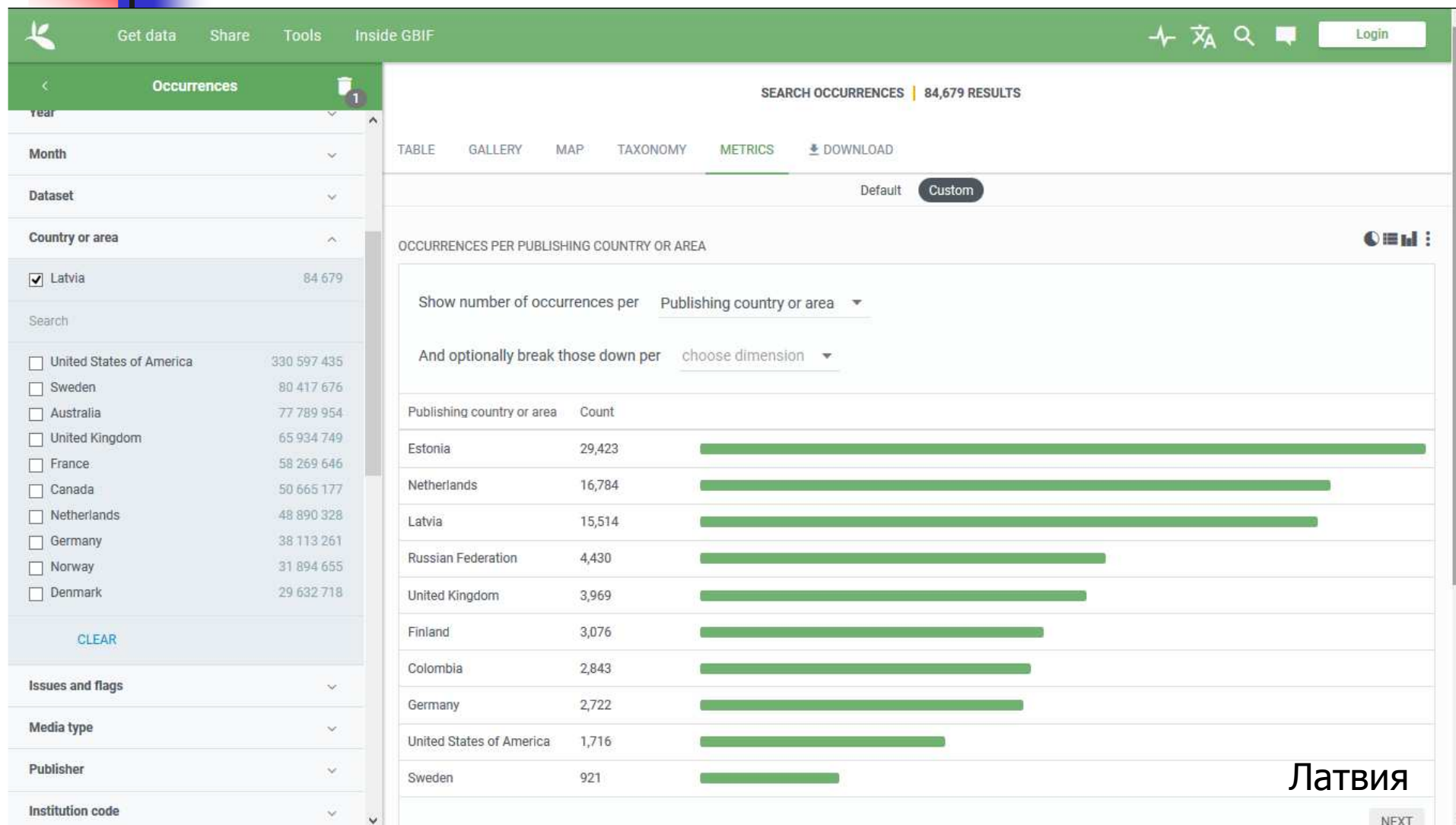
Россия как игрок мирового рынка данных: примеры



Россия как игрок мирового рынка данных: примеры



Россия как игрок мирового рынка данных: примеры






Для чего?

3. Для академической
репутации



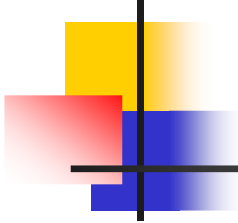
Гербарий МГУ: 12-е место в мире по числу образцов в БД

■ The vascular plants collection (P) at the Herbariu...	5,415,703
■ MEL AVH data	5,071,904
■ Naturalis Biodiversity Center (NL) - Botany	4,813,851
■ Tropicos Specimen Data	4,439,508
■ The New York Botanical Garden Herbarium (NY)	3,153,534
■ NMNH Extant Specimen Records	2,404,483
■ Consortium of California Herbaria	2,320,628
■ Meise Botanic Garden Herbarium (BR)	1,256,602
■ PRECIS	1,117,942
■ Phanerogamic Botanical Collections (S)	1,018,284
■ Harvard University Herbaria: All Records	1,002,985
■ Moscow University Herbarium (MW)	974,292
■ EURISCO, The European Genetic Resources Search Cat...	956,422
■ Royal Botanic Gardens, Kew - Herbarium Specimens	921,988
■ Lund Botanical Museum (LD)	894,327
■ Royal Botanic Garden Edinburgh Herbarium (E)	866,672
■ Vascular Plant Herbarium, Oslo (O)	865,134
■ CSIC-Real Jardín Botánico-Colección de Plantas Vas...	760,400
■ RB - Rio de Janeiro Botanical Garden Herbarium Col...	720,447



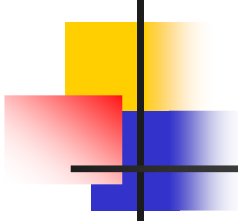
Гербарий МГУ: 13-е место в мире по образцам с геопривязками

■ MEL AVH data	4,666,460
■ Tropicos Specimen Data	2,932,888
■ Consortium of California Herbaria	1,777,012
■ The New York Botanical Garden Herbarium (NY)	976,525
■ Naturalis Biodiversity Center (NL) - Botany	957,126
■ PRECIS	895,845
■ Lund Botanical Museum (LD)	854,201
■ Vascular Plant Herbarium, Oslo (O)	595,852
■ Field Museum of Natural History (Botany) Seed Pla...	546,357
■ BRI AVH data	499,760
■ NMNH Extant Specimen Records	437,428
■ Finnish Floristic Database (Finnish Museum of Natu...	394,797
■ Moscow University Herbarium (MW)	360,918
■ Plantae of Costa Rica (INBio)	351,417
■ OEH Atlas of NSW Wildlife	328,784
■ Natural History Museum (London) Collection Specime...	328,034
■ Vascular plant specimens of National Museum of Nat...	308,424
■ The vascular plants collection (P) at the Herbariu...	288,151
■ CSIC-Real Jardín Botánico-Colección de Plantas Vas...	276,179



МГУ – лидер по данным для территории России

■ Moscow University Herbarium (MW)	617,690
■ Geographically tagged INSDC sequences	194,603
■ A grid-based database on vascular plant distrib...	123,054
■ EBCC Atlas of European Breeding Birds	80,923
■ EOD - eBird Observation Dataset	70,948
■ A global database for the distributions of crop wi...	69,255
■ iNaturalist Research-grade Observations	64,620
■ Arctic Ocean Diversity	62,945
■ Birds of Northern Eurasia	62,749
■ Paleobiology Database	60,192
■ EURISCO, The European Genetic Resources Search Cat...	53,495
■ Estonian University of Life Sciences	51,719
■ CRIS data set	44,862
■ Birds and Mammals Collections of the Zoological...	40,189
■ Phytoplankton from the White Sea, Barents Sea, Nor...	37,325
■ Amphibians of the Former USSR	32,561
■ A grid-based database on vascular plant distribu...	31,669
■ Natural History Museum, University of Tartu	31,519
■ MICROBIS database	29,841



МГУ – лидер по данным среди российских организаций

■ Moscow University Herbarium (MW)	974,295
■ A grid-based database on vascular plant distributi...	123,054
■ EOD - eBird Observation Dataset	70,948
■ Birds of Northern Eurasia	65,917
■ Birds and Mammals Collections of the Zoological Mu...	54,120
■ CRIS data set	54,054
■ Amphibians of the Former USSR	52,474
■ Raptors of the World	36,928
■ A grid-based database on vascular plant distributi...	31,669
■ Phenological observations of biota on the territor...	24,358
■ A grid-based database on vascular plant distributi...	22,625
■ Flora of the Volga River basin	20,389
■ The Myxomycetes Collection at the V. L. Komarov Bo...	12,828
■ Vascular plants of the Amur River Basin, Russia: s...	12,371
■ Fungal records database of Khanty-Mansi Autonomous...	11,779
■ Occurrences of the invasive plant species Heracleu...	10,894
■ Ophiuroidea collections of the Zoological Institut...	8,693
■ ZMMU MSU, White Sea Branch	8,111
■ Occurrence Data of Vascular Plants from Abandoned ...	8,077

Право ещё одного голоса на МБК-2017 (КНР)



Цифровой гербарий МГУ - Moscow Digital Herbarium

22 янв 2017

МГУ получил право еще одного голоса на Номенклатурной секции Международного ботанического конгресса 2017 года

Раз в шесть лет проходит Международный ботанический конгресс, который предваряется заседанием Номенклатурной секции. На ней ведущие систематики растений мира договариваются об изменениях в "Международный кодекс" ботанической номенклатуры.

Интересно, что голоса закреплены не за странами, не за людьми и не за организациями, а за Гербариями. Право голоса имеют 542 гербария - как правило, по одному голосу. За большими и активными гербариями закреплено от 2 до 7 голосов.

В конце 2016 г. 11 из 542 гербариев получили еще по одному дополнительному мандату. Историческим решением Комитета (Special Committee on Institutional Votes) Гербарий Московского университета (MW) получил право третьего голоса в пакетном голосовании на Номенклатурной секции Конгресса, который пройдет в 2017 г. в Китае. Это стало результатом большой работы в области систематики растений и прогресса в развитии цифровых технологий за последние шесть лет. Если Гербарий реализует право трех голосов путем делегирования сотрудника, то последнему во время голосования будет дан 4-й (личный) мандат. Если голоса будут переданы другому участнику, то их будет реализовано три.



Написать комментарий...





Для чего?

4. Для активизации
сотрудничества

Пример запроса материала для изучения ДНК

Ophioglossaceae specimens at MW Входящие x

← **DU PASQUIER Pierre-Emmanuel** <pierre-emmanuel.dupasquier@unine.ch>
кому: я, GRANT ▾

📧 чт, 14 февр., 17:46 ☆ ↩ ⋮

🌐 английский ▾ > русский ▾ [Перевести сообщение](#)

[Отключить для языка: английский x](#)

Dear Mr. Seregnin,

In the frame of my posdoctoral project concerning the phylogeny of the Ophioglossaceae family under the supervision of Jason Grant, I am preparing a representative DNA sampling of the taxonomy and geography of each taxon. I selected the following specimens (in the attached excel file) in your herbarium using the GBIF data or your virtual herbarium, and I would like to know if it would be possible to obtain a leaf fragment of each individual for DNA extracting? It is not sure that I have seen photos of each specimen depending of their availability. If the state of the tissue don't seem correct to you for DNA extracting, could you replace the concerned specimen by another one with a similar locality?

I thank you in advance for your kind collaboration.

Best regards,

Pierre-Emmanuel Du Pasquier
Université de Neuchâtel - Faculté des sciences
Rue Emile-Argand 11
2000 Neuchâtel (Switzerland)



Ещё пример запроса материала

Digitalization of Moscow State University Herbarium (MW) - *Carex oligantha* Steud.



Входящие x

← **Sebastian Gebauer** <sebastian.gebauer@botanik.uni-halle.de>

пт, 25 авг. 2017 г., 12:26



кому: я, segebau ▾

🌐 английский ▾ > русский ▾ [Перевести сообщение](#)

[Отключить для языка: английский](#) x

Dear Dr. Seregin,

few days ago I tried to write you via ResearchGate, so I try it again by mail! I still noticed the digitization project and its progress of the Moscow State University Herbarium (MW) and the database was already used for my own scientific work on taxonomy and phylogeny of *Carex* section *Racemosae* (formerly sect. *Atratae*) to get additional information on distribution of individual species, thus I would like to congratulate you for this important project of one of the most important Russian herbarium collections!

Although, several restriction such as impossible loan **requests** on Russian herbaria, I always found several colleagues or curators from Russia (LE) who helped with digital photos or provided small portions of generative material for morphological as well as molecular study. In your database, I also found a small amount of putative specimens of the Caucasian endemic species *Carex oligantha* Steud., which would be very important for my study on the sect. *Racemosae*. I've seen only two old duplicate specimens from Kabardino-Balkaria during a short visit at the National Herbarium in Tbilisi, Georgia (TBI) some years ago, which don't work for molecular analyses, because the **DNA** was already destroyed. During this visit, own field excursion in the Caucasus as well as literature studies, I found that this species is much rarer than expected, because frequently misidentified with similar high-elevation morphotypes of the Caucasian *Carex atterima* subsp. *medwedewii* (Leskov) T.V. Egorova (see Gebauer et al. 2015). During my studies, it has been shown that the traditional taxonomy of the group (e.g., Egorova's subsectional treatment) is largely affected by homoplasy as well as large morphological variation (polymorphy) among the individual species. In summary, my global sampling of sect. *Racemosae*, which is almost complete, lacking this important endemic species, which might be disjunctively closely related either to Southern Siberian-Mongolian species (e.g., *C. melanocephala*) by morphological assumptions or species from the same region with strong morphological divergence between them (e.g., *C. atterima* subsp. *medwedewii*, *C. caucasica*). Otherwise, it might only represent a deviating regional morphotype of another species, or not, which needs to be clarified!

On your database the following accessions would be very interesting for me: MW0653489, MW0653490, MW0653491, MW0653496, and MW0653497. Would it be possible to provide leaf-samples (about 40 mg) and a small fraction of generative units (3–5 utricles and 2–3 female glumes) as well as a detailed photograph of the inflorescences of these herbarium specimens for morphological (proofing its correct determinations) and molecular studies, which could be send in a letter? This would help to clarify its phylogenetic position and questionable taxonomy, and I would be very grateful!

Yours sincerely and all the very best!



Для чего?

5. Для привлечения
финансирования

Гранты фонда Руффорда



4784 PROJECTS IN 162 COUNTRIES

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Alexey Seregin

Reassessment of the Areas with the Highest Concentration of Rare Plant Species in Vladimir Oblast, Russia

In 1999–2011, Dr. Seregin have performed grid mapping of vascular plant flora of Vladimir Oblast (Russia). This project used a grid with 339 squares (ca. 100 square km each). Nearly all grid squares were sampled once with an average recording rate 75%. “Flora of Vladimir Oblast: checklist and atlas” (Seregin et al. 2012) have summarized data on 1,371 native and alien species with ca. 118,000 occurrences on distribution maps. This is the first grid atlas published in Russia. In 2012–2013, 48 grid squares were sampled again, and distribution database contains now 123,054 records with 4,823 new records added after printing of “Flora”. We are going to focus further research on selective thorough search of expected rare species in suitable habitats.

We define a rare species as a native plant species known to occur from one to 20 grid squares. The aim of each day-trip is the recording of the highest possible number of species. It is assumed that in each square we will record at least 100 new species, including not less than 10 rare species. Thus, maps of individual rare species will be supplemented with ca. 300 previously unknown localities. Ca. 3,000 new records will contribute the database.

Town/Region	Vladimir
Country	Russian Federation
Continent	Asia
Categories	Plants
Date	20 Jan 2015



Гранты фонда Руффорда

Alexey Seregin 16450-1

Входящие x



← **Jane Raymond** jane@rufford.org через qip.ru
кому: allium@hotbox.ru ▾

16 окт. 2014 г., 15:44



английский ▾ > русский ▾ [Перевести сообщение](#)

[Отключить для языка: английский](#) x

Dear Alexey

Whilst your application was being assessed the following points were raised

1. How were the grids chosen and how they you prioritise them if you don't manage to survey them all?
2. We would encourage you to find ways to publish the raw digital data so that it can contribute to the Global Biodiversity Information Facility. You might also consider how you might combine your results with other researchers interested in other types of organism to give a more community based conservation assessment.
3. If possible, critical and rare specimens should be collected for monitoring purposes and deposited in herbarium MW for further investigations and data implementation in GBIF.
4. We would also encourage the authors to translate their results and publish them in English.
5. We are concerned whether the fuel costs are sufficient as this is a critical component of the work. There is no information regarding matched funding for the vehicle itself.

I look forward to hearing from you shortly with your responses to the above

Best wishes

Jane

Гранты GBIF

PROJECT | IN PROGRESS

Supporting the regular georeferencing of European Russia holdings in the Moscow Digital Herbarium

1 Feb - 30 Sep 2019 € 7,000

ABOUT MOSCOW DIGITAL HERBARIUM



Scan of *Draba verna* (Крупка весенняя) from Russia deposited in the Moscow University Herbarium (MW0565477)

The Moscow Digital Herbarium is the largest biodiversity database in Russia and at present the [largest Russian dataset published in GBIF](#), but only 31% of the records are georeferenced. The main objective of this project is to increase the amount of geodata associated with these records.

After completion of the March's Advancement (2015 - 2018) that aimed to support the Moscow



Гранты РФФИ


КИАС РФФИ::данные проекта 19-54-53014







Степень реализации	не завершен
Номер проекта	19-54-53014
Ф. И. О. руководителя	Санданов Д.В.
Название проекта	Сравнительный анализ закономерностей разнообразия древесных и травянистых видов континентальной Азии
Аннотация заявки	<p>В свете прогнозируемых изменений климата и антропогенной трансформации растительного покрова планеты на первый план выходят вопросы динамики современных ареалов и аспекты сохранения разнообразия растений. Традиционно, изучение закономерностей распределения видового богатства растений проводилось в мировом масштабе или на территориях с богатой флорой, тогда как регионы Азии все еще остаются недостаточно изученными. Несмотря на хорошую изученность фиторазнообразия в мировом масштабе, в предыдущих исследованиях не рассматривались закономерности разнообразия древесных и травянистых видов в сравнительном плане. В рамках проекта будет проведено обобщение литературных и оригинальных данных по распространению высших семенных растений в континентальной Азии (Азиатская Россия, страны Средней Азии, Монголия, Китай) и выявлены характерные особенности пространственного распределения древесных и травянистых видов. Вся имеющаяся и наработанная информация будет собрана в единую базу данных. Будут определены ключевые факторы, определяющие границы и конфигурацию ареалов растений различных биоморф, также выявлен отклик каждой группы растений на современные климатические условия, динамику климата в прошлом и связаны с эволюционной историей изучаемых видов. Планируемые исследования будут согласованы с анализом филогенетического разнообразия, что позволит выявить основные центры происхождения для различных групп растений и особенности их распространения на пространственно-временной шкале. Результаты исследований в дальнейшем могут быть использованы в качестве основы для прогнозирования направлений климатогенной динамики экосистем континентальной Азии.</p>



Гранты РФФИ

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974,295 OCCURRENCES53 CITATIONS

DescriptionPurposeTemporal scopeGeographic scopeTaxonomic scopeMethodologyAdditional infoBibliographyContactsData descriptionGBIF registrationCitation

The Moscow University Herbarium has gained budget for the digitisation of collections within the Program of the National Depository Bank of Live Systems (Moscow Digital Herbarium Initiative), and ca. 911,000 specimens (89%) were scanned since May 2015. All records are published at <https://plant.depo.msu.ru/>, including JPG images and metadata required for indexing.

The number of georeferenced specimens with fully captured labels is constantly growing. As of September 2018, labels of 120,635 specimens are fully captured and entered to the database and 277,994 specimens are georeferenced. Collector's name and collection date were added for 83% specimens in July 2018.

54,204 occurrences were georeferenced by September 2018 by the support of FinBIF project 'Supporting data mobilization activities in Russia west of Ural mountains' (Russia-02, see details at <https://www.gbif.org/project/1r7RSp5iLqqKYs88WIW2/gbifru-data-mobilization-activities#about>).

4,939 occurrences were georeferenced in March 2019 by the support of RFBR project 'Sravnitel'nyj analiz zakonomernostej raznoobraziya drevesnyh i travyanistykh vidov kontinental'noj Azii' (#19-54-53014).

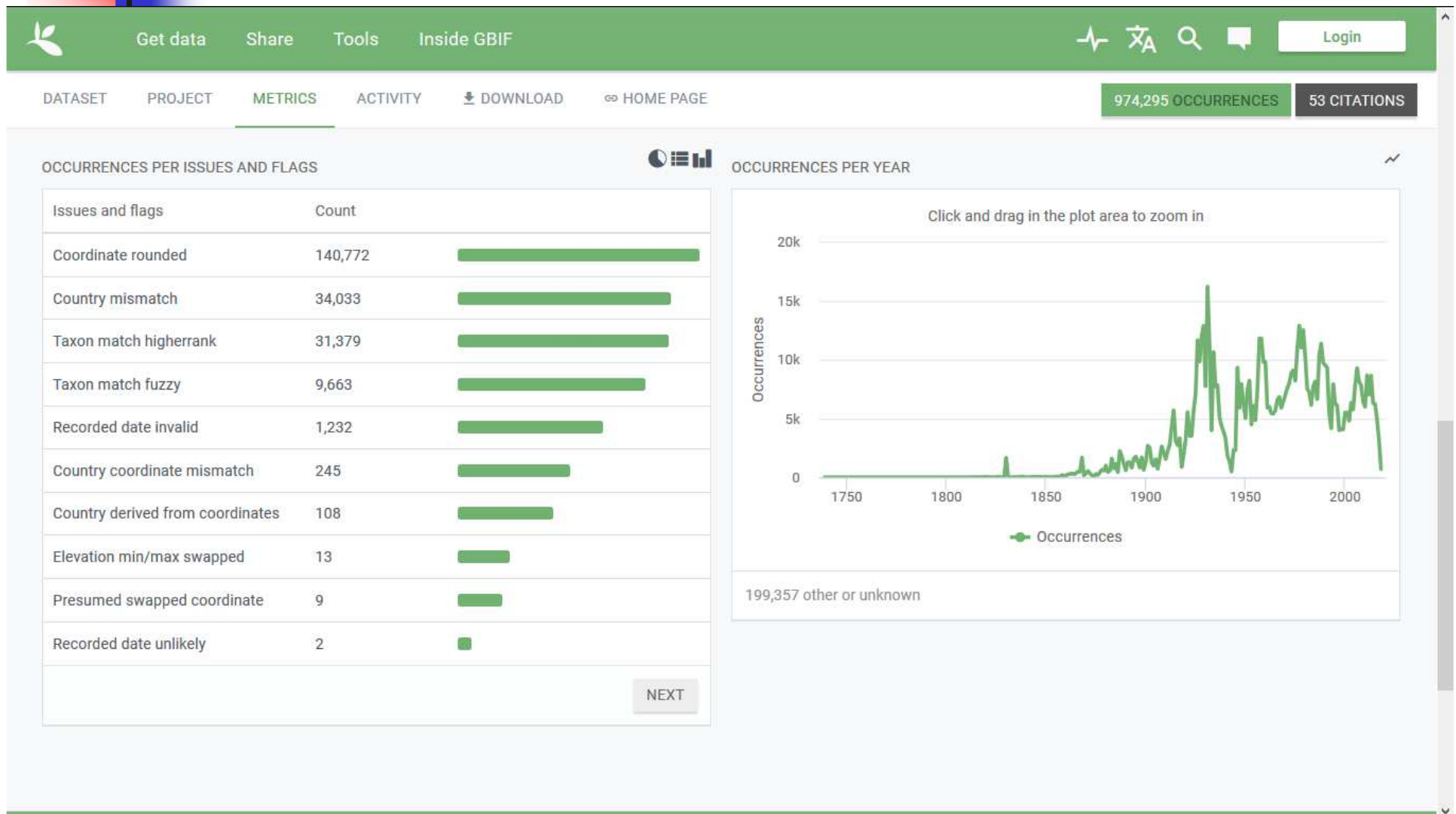
5,513 occurrences were georeferenced by March 2019 by the support of FinBIF project 'Supporting the regular georeferencing of European Russia holdings in the Moscow Digital Herbarium' (Russia2019_14, see details at <https://www.gbif.org/project/2dfnq4VJQxHVSOPZWykiCb/supporting-the-regular-georeferencing-of-european-russia-holdings-in-the-moscow-digital-herbarium>).



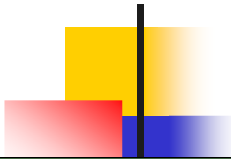
Для чего?



6. Для чистки данных

Функция "Issues and flags"








Функция “Issues and flags”: перепутаны высоты



Get data Share Tools Inside GBIF					Login	
Occurrences 2					SEARCH OCCURRENCES 13 RESULTS	
					TABLE GALLERY MAP TAXONOMY METRICS  DOWNLOAD	
Location					Scientific name Country or area Coordinates Month & year	
Year						
Month						
Dataset						
<input checked="" type="checkbox"/> Moscow University Herbarium (MW)						
Country or area						
Issues and flags						
<input checked="" type="checkbox"/> Elevation min/max swapped						
Media type						
Publisher						
Institution code						
Collection code						
Catalog number						
Type status						
						
					<i>Cerastium gnaphalodes</i> Fenzl	Turkey 1994 August
					<i>Ranunculus meyerianus</i> Rupr.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Delphinium flexuosum</i> M.Bieb.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Dianthus caucaseus</i> Sims	Russian Federation 41.3N, 47.8E 1989 August
					<i>Carex songorica</i> Kar. & Kir.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Juncus articulatus</i> L.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Delphinium flexuosum</i> M.Bieb.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Parnassia palustris</i> L.	Russian Federation 41.3N, 47.8E 1989 August
					<i>Rhamnus pallasii</i> Fisch. & C.A.Mey.	Azerbaijan 1966 July
					<i>Prunus spinosa</i> L.	Ukraine 44.5N, 33.7E 1962 May
					<i>Prunus spinosa</i> L.	Ukraine 44.5N, 33.7E 1962 May

Жёлтая метка “Elevation min/max swapped”

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OCCURRENCE | 4 AUGUST 1989

Synced 4 hours ago
Modified 30 March 2018

Ranunculus meyerianus Rupr.

Collected in Russian Federation

Plantae > Tracheophyta > Magnoliopsida > Ranunculales > Ranunculaceae > *Ranunculus*

Species: [Ranunculus meyerianus Rupr.](#)

Location: Russian Federation

Elevation: 2250m ±250m

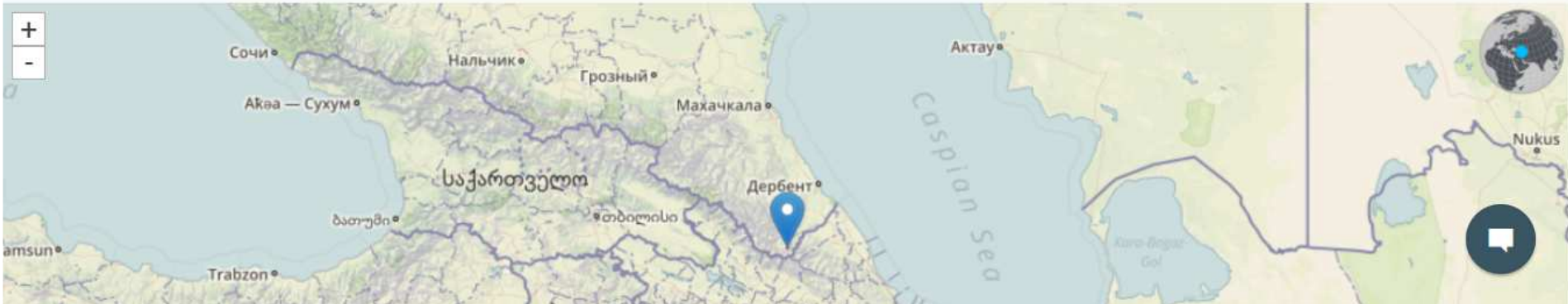
Basis of record: Preserved specimen

Dataset: [Moscow University Herbarium \(MW\)](#)

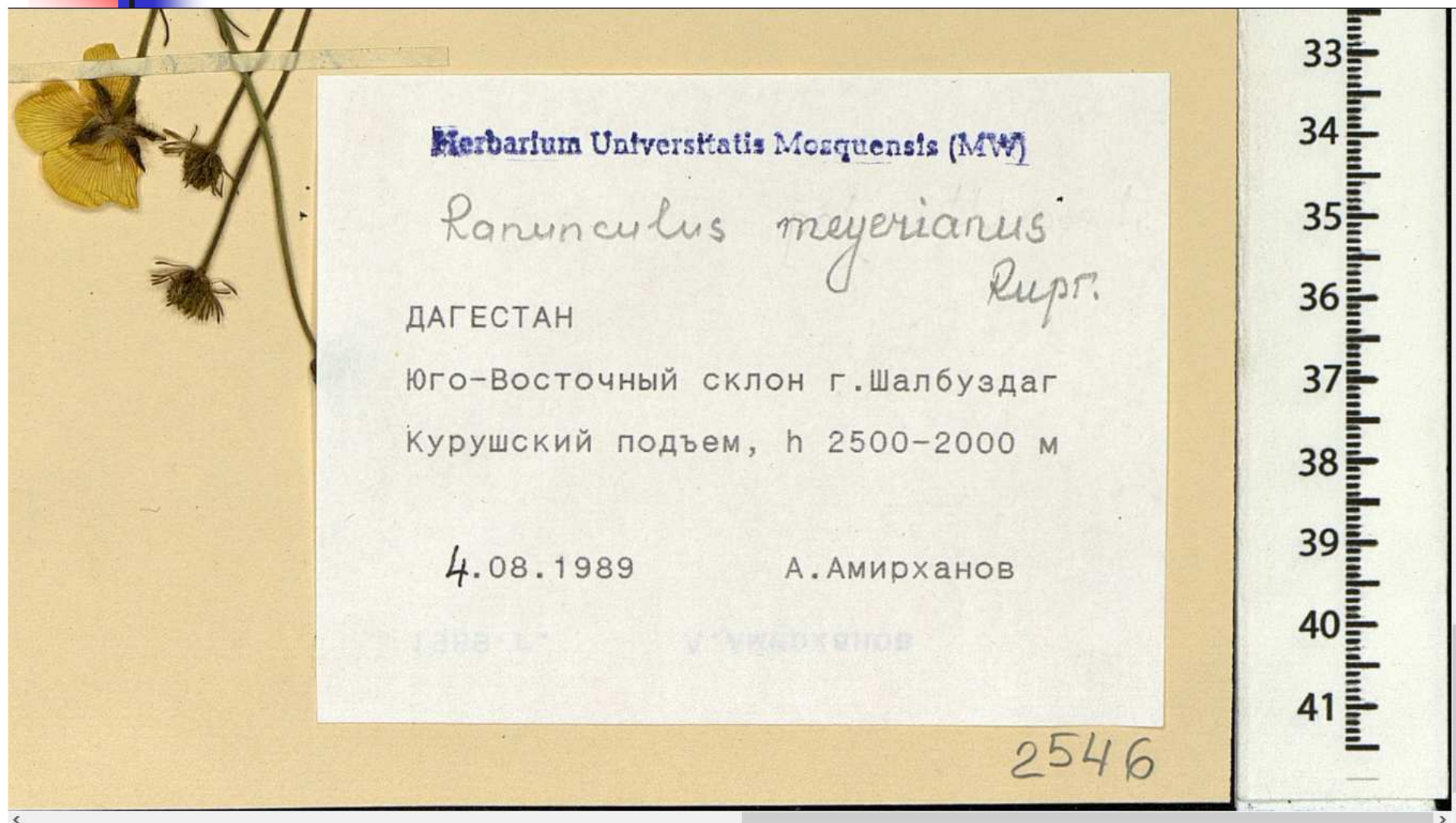
Publisher: [Lomonosov Moscow State University](#)

Reference: <https://plant.depo.msu.ru/open/public/item/MW06703...>

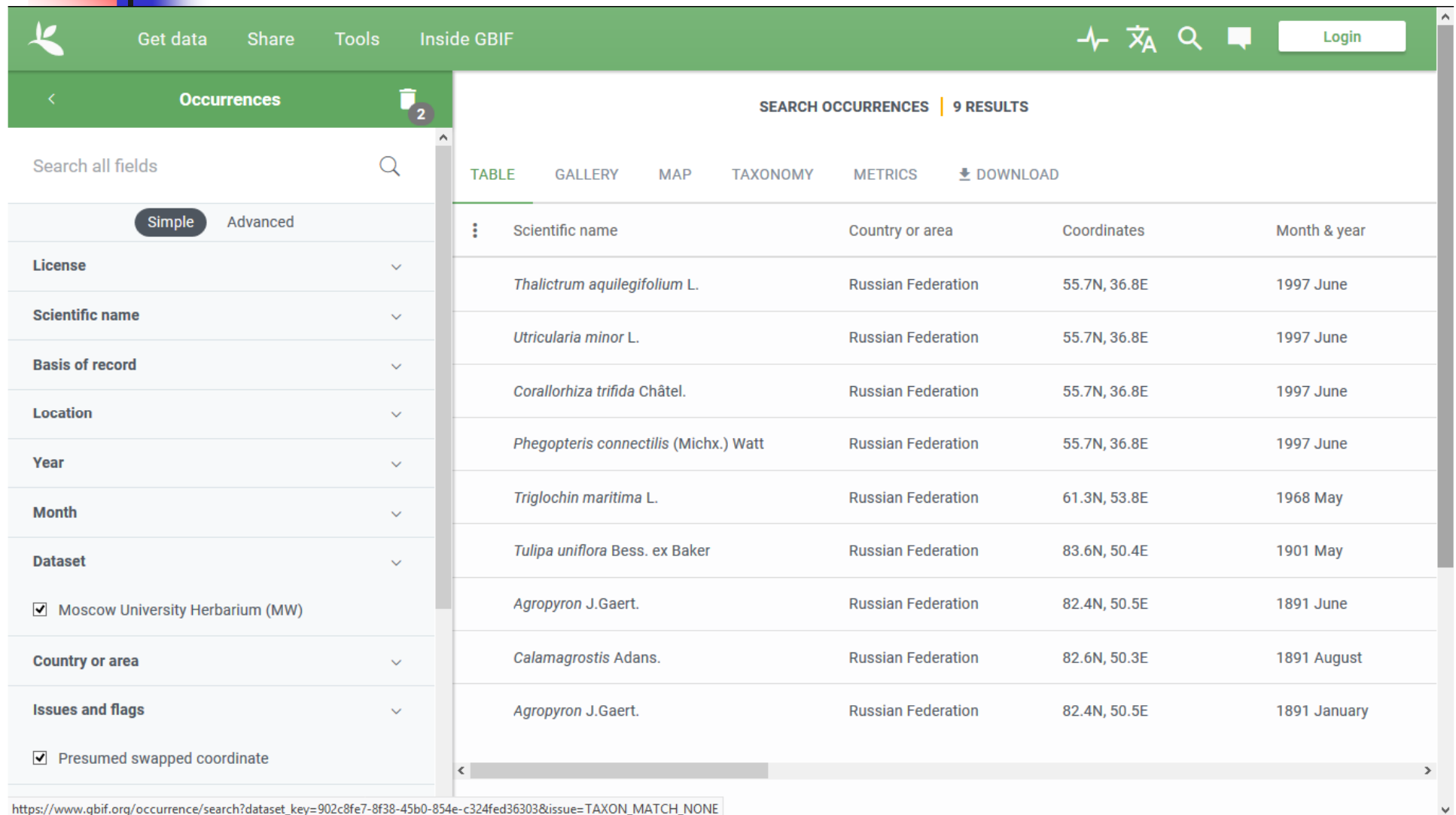
Issues: Elevation min/max swapped



Оригинальная этикетка как источник неточности



Функция "Issues and flags": перепутаны координаты



The screenshot displays the GBIF Occurrences search interface. The top navigation bar includes links for 'Get data', 'Share', 'Tools', and 'Inside GBIF', along with a 'Login' button. The left sidebar shows the 'Occurrences' section with a search bar and filters for 'Simple' and 'Advanced' views. The main content area shows 'SEARCH OCCURRENCES | 9 RESULTS' with tabs for 'TABLE', 'GALLERY', 'MAP', 'TAXONOMY', 'METRICS', and 'DOWNLOAD'. The 'TABLE' tab is selected, showing a table with columns: Scientific name, Country or area, Coordinates, and Month & year. The table lists 9 results, including *Thalictrum aquilegifolium* L., *Utricularia minor* L., *Corallorhiza trifida* Châtel., *Phegopteris connectilis* (Michx.) Watt, *Triglochin maritima* L., *Tulipa uniflora* Bess. ex Baker, *Agropyron* J.Gaert., *Calamagrostis* Adans., and *Agropyron* J.Gaert. The 'Issues and flags' section is expanded, showing a checked option 'Presumed swapped coordinate'.

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Occurrences

Search all fields

Simple Advanced

License

Scientific name

Basis of record

Location

Year

Month

Dataset

☒ Moscow University Herbarium (MW)

Country or area

Issues and flags

☒ Presumed swapped coordinate


SEARCH OCCURRENCES | 9 RESULTS





TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year
<i>Thalictrum aquilegifolium</i> L.	Russian Federation	55.7N, 36.8E	1997 June
<i>Utricularia minor</i> L.	Russian Federation	55.7N, 36.8E	1997 June
<i>Corallorhiza trifida</i> Châtel.	Russian Federation	55.7N, 36.8E	1997 June
<i>Phegopteris connectilis</i> (Michx.) Watt	Russian Federation	55.7N, 36.8E	1997 June
<i>Triglochin maritima</i> L.	Russian Federation	61.3N, 53.8E	1968 May
<i>Tulipa uniflora</i> Bess. ex Baker	Russian Federation	83.6N, 50.4E	1901 May
<i>Agropyron</i> J.Gaert.	Russian Federation	82.4N, 50.5E	1891 June
<i>Calamagrostis</i> Adans.	Russian Federation	82.6N, 50.3E	1891 August
<i>Agropyron</i> J.Gaert.	Russian Federation	82.4N, 50.5E	1891 January

https://www.gbif.org/occurrence/search?dataset_key=902c8fe7-8f38-45b0-854e-c324fed36303&issue=TAXON_MATCH_NONE

Жёлтая метка “Presumed swapped coordinate”

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OCCURRENCE | 24 JUNE 1997

Synced 4 hours ago
Modified 20 March 2019

Thalictrum aquilegifolium L.


French meadow-rue In English Collected in Russian Federation

Plantae > Tracheophyta > Magnoliopsida > Ranunculales > Ranunculaceae > *Thalictrum*

Species: [Thalictrum aquilegifolium](#) L.

Location: Russian Federation

Basis of record: Preserved specimen

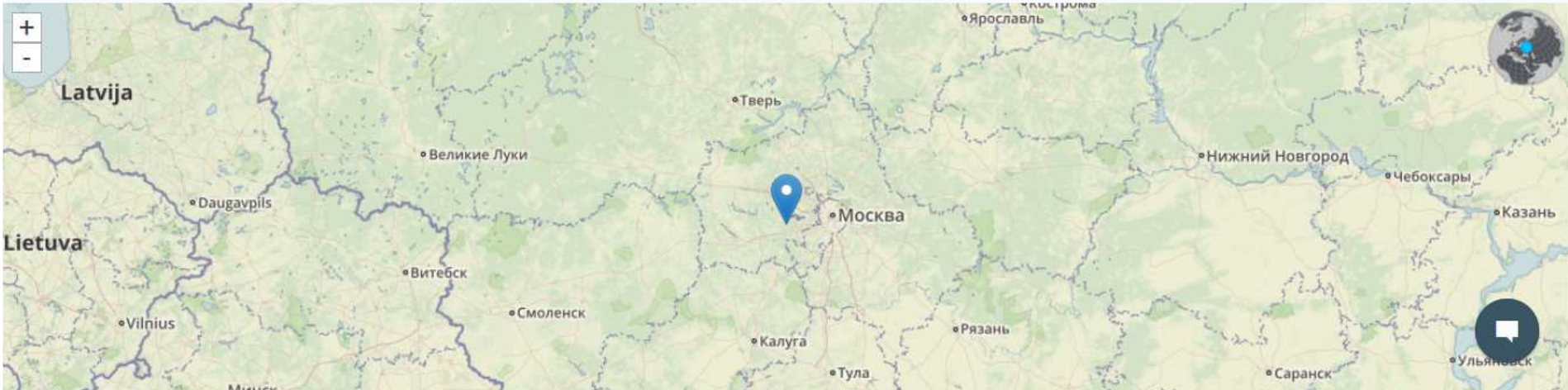


Dataset: [Moscow University Herbarium \(MW\)](#)

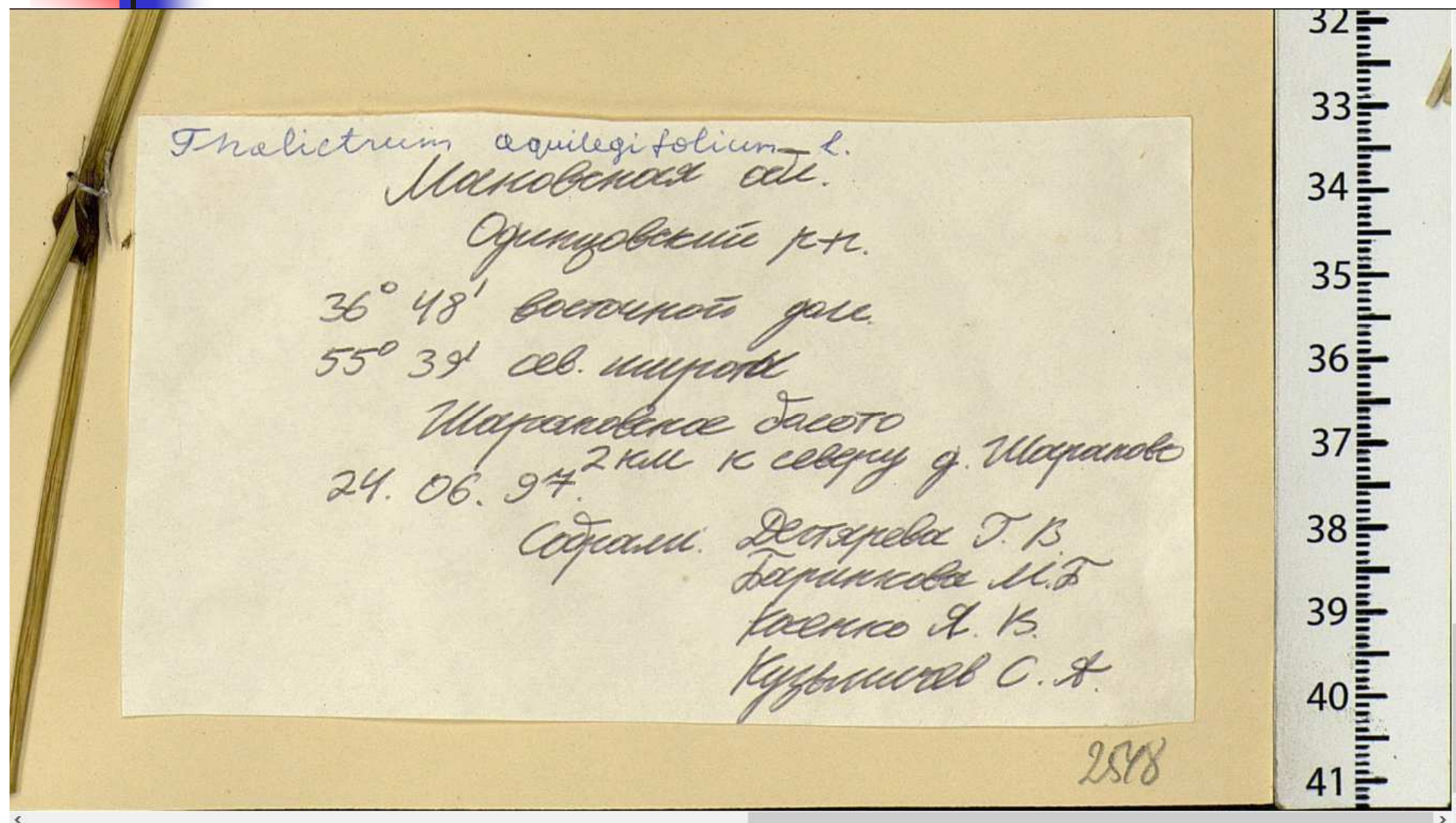
Publisher: [Lomonosov Moscow State University](#)

Reference: <https://plant.depo.msu.ru/open/public/item/MW03602...>

Issues: [Presumed swapped coordinate](#)



Оригинальная этикетка как источник неточности



Функция "Issues and flags": координаты есть, но страна не указана

Get data Share Tools Inside GBIF Login

Occurrences 3

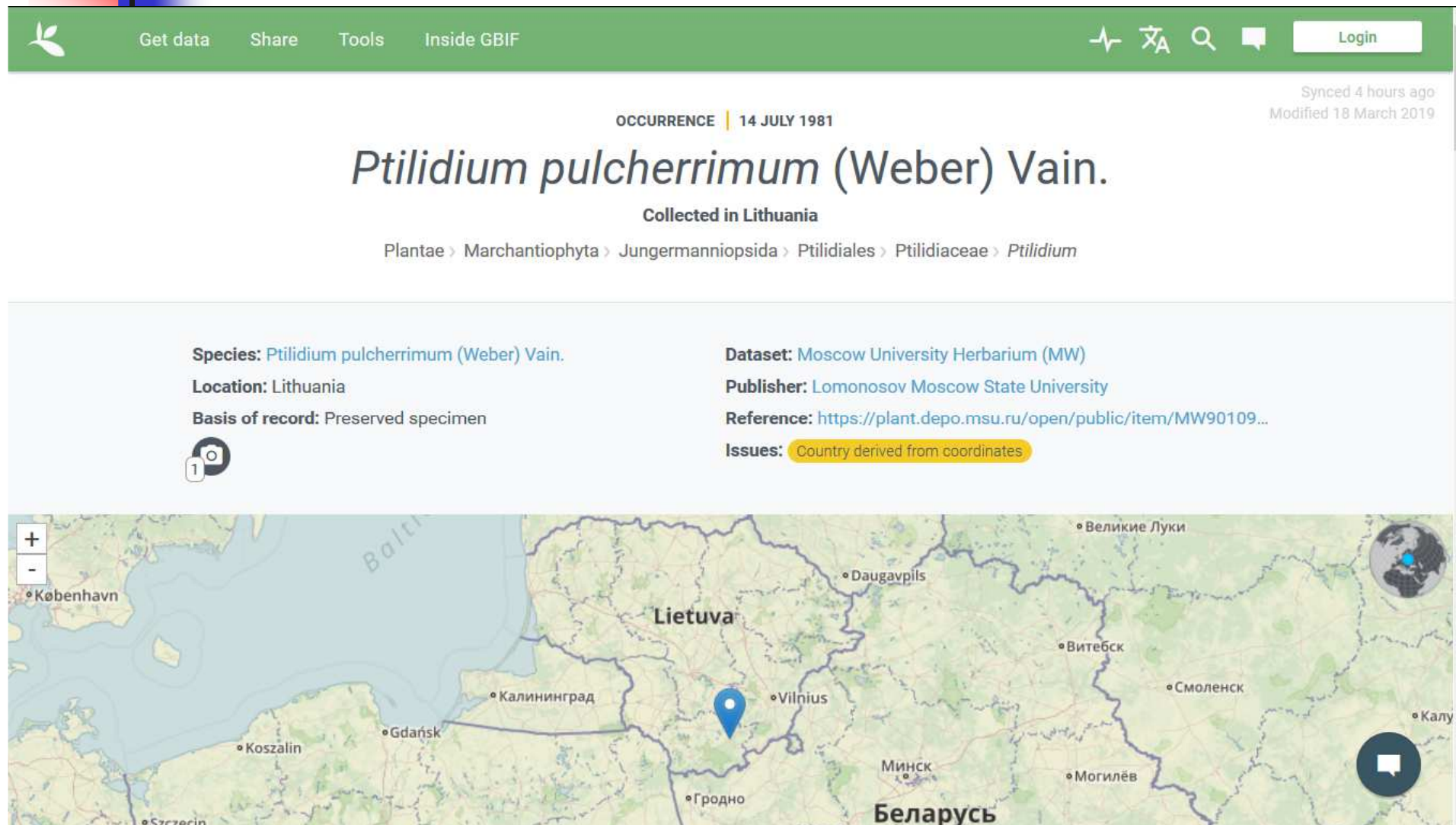
SEARCH OCCURRENCES 6 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year
<i>Ptilidium pulcherrimum</i> (Weber) Vain.	Lithuania	54.3N, 24.5E	1981 July
<i>Orthotrichum obtusifolium</i> Bridel, 1801	Lithuania	54.3N, 24.5E	1981 July
<i>Radula complanata</i> (L.) Dumort.	Lithuania	54.3N, 24.5E	1981 July
<i>Ptilium crista-castrensis</i> De Notaris, 1867	Lithuania	55.2N, 26.1E	1964 July
<i>Sphagnum magellanicum</i> Bridel, 1798	Lithuania	55.2N, 26.1E	1964 July
<i>Pleurozium schreberi</i> Mitten, 1869	Lithuania	55.2N, 26.1E	1964 July

Windows taskbar: 10:42

Жёлтая метка "Country derived from coordinates"



Get data Share Tools Inside GBIF Login

OCCURRENCE | 14 JULY 1981 Synced 4 hours ago
Modified 18 March 2019


Ptilidium pulcherrimum (Weber) Vain.

Collected in Lithuania

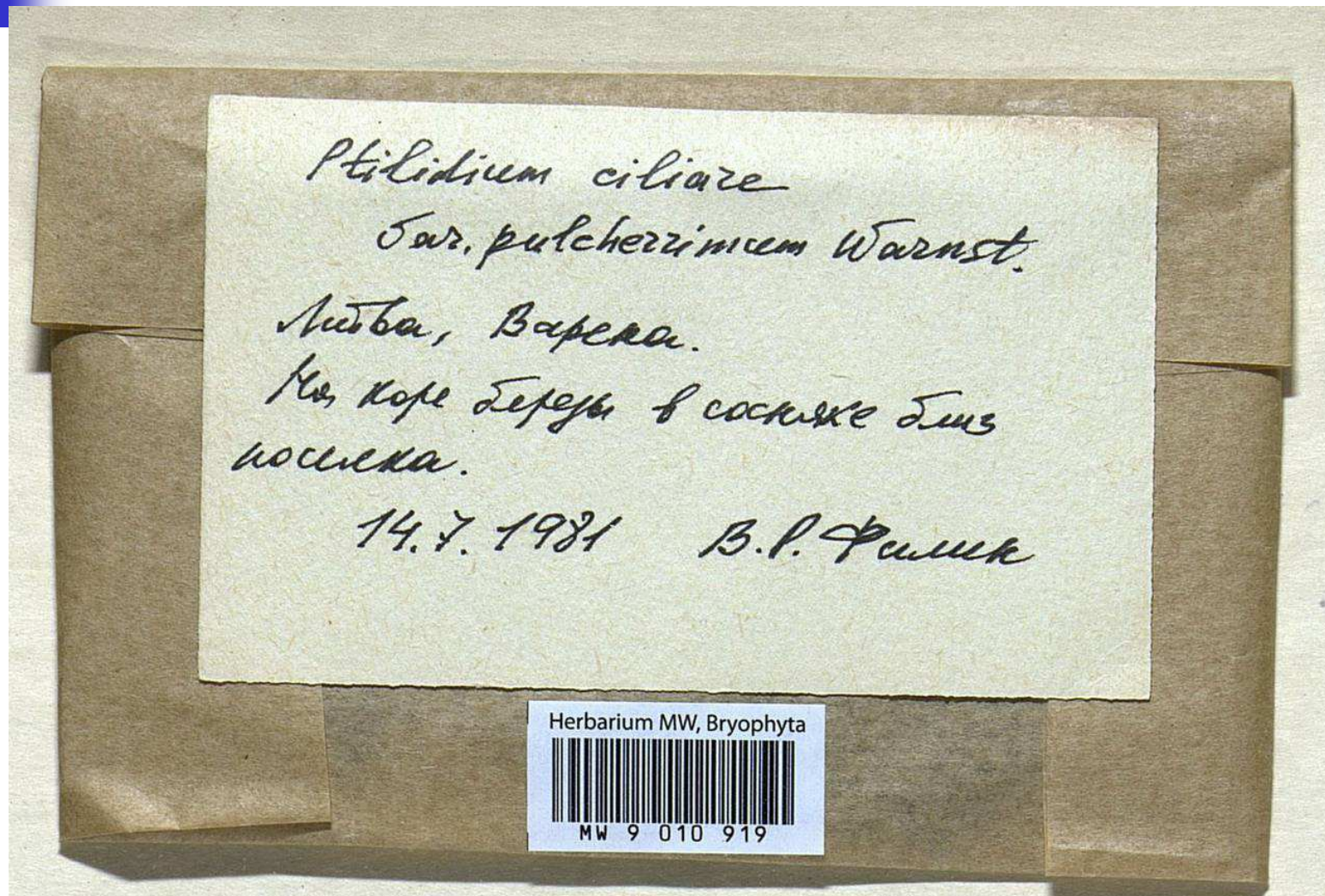
Plantae > Marchantiophyta > Jungermanniopsida > Ptilidiales > Ptilidiaceae > *Ptilidium*

Species: *Ptilidium pulcherrimum* (Weber) Vain.
Location: Lithuania
Basis of record: Preserved specimen

Dataset: Moscow University Herbarium (MW)
Publisher: Lomonosov Moscow State University
Reference: <https://plant.depo.msu.ru/open/public/item/MW90109...>
Issues: Country derived from coordinates



Оригинальная этикетка





Причина: особенности системы автоматической геопривязки

Новый мас... по мелочи Zamzar - Fre Входящие C Новости Supporting C Стена MW901091S Депозитарий Депозит X Саксаул

https://plant.depo.msu.ru/open/module/itempublic?d=P&openparams=[open-id%3D107412766] 110% Поиск

Часто посещаемые Начальная страница Messages · iNaturalist... P-49 карты СССР. Че...

 "НОВЕ КОВЧЕГ" **Депозитарий живых систем**  RU (Выйти)

Образец коллекции

служба поддержки: +7 (495) 939-5945 support+depo@mitotech.ru

Ptilidium pulcherrimum [MW9010919]

[Открытая версия](#) [Цитировать для публикации](#) [Сообщить об ошибке](#)

Общее Этикетка Место сбора Хранение Ссылки

Страна

Формат ввода координат

Широта

Долгота

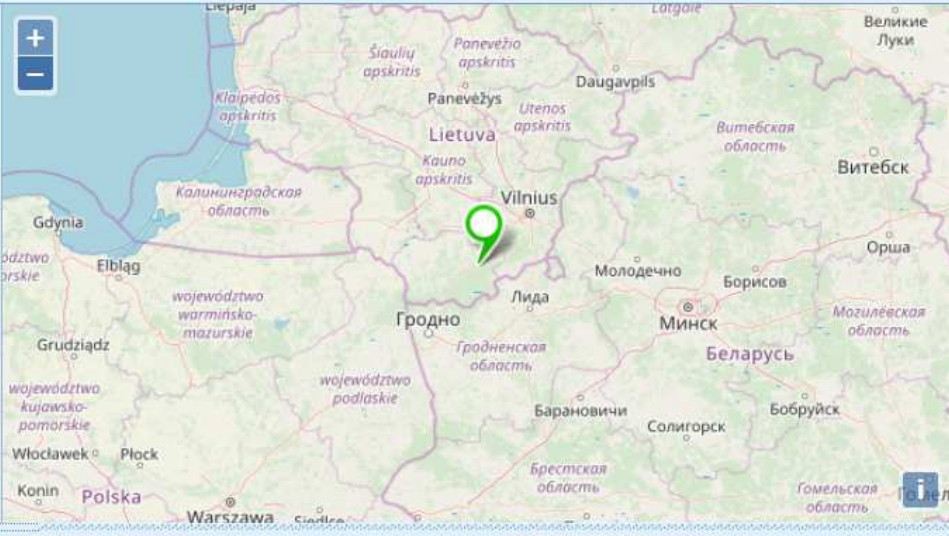
Точность (радиус, км)

Автоматическая привязка по совпадению даты и коллектора образца [MW0205611](#)

Оператор геопривязки

Дата ввода геопривязки

[Обновить масштаб карты](#)

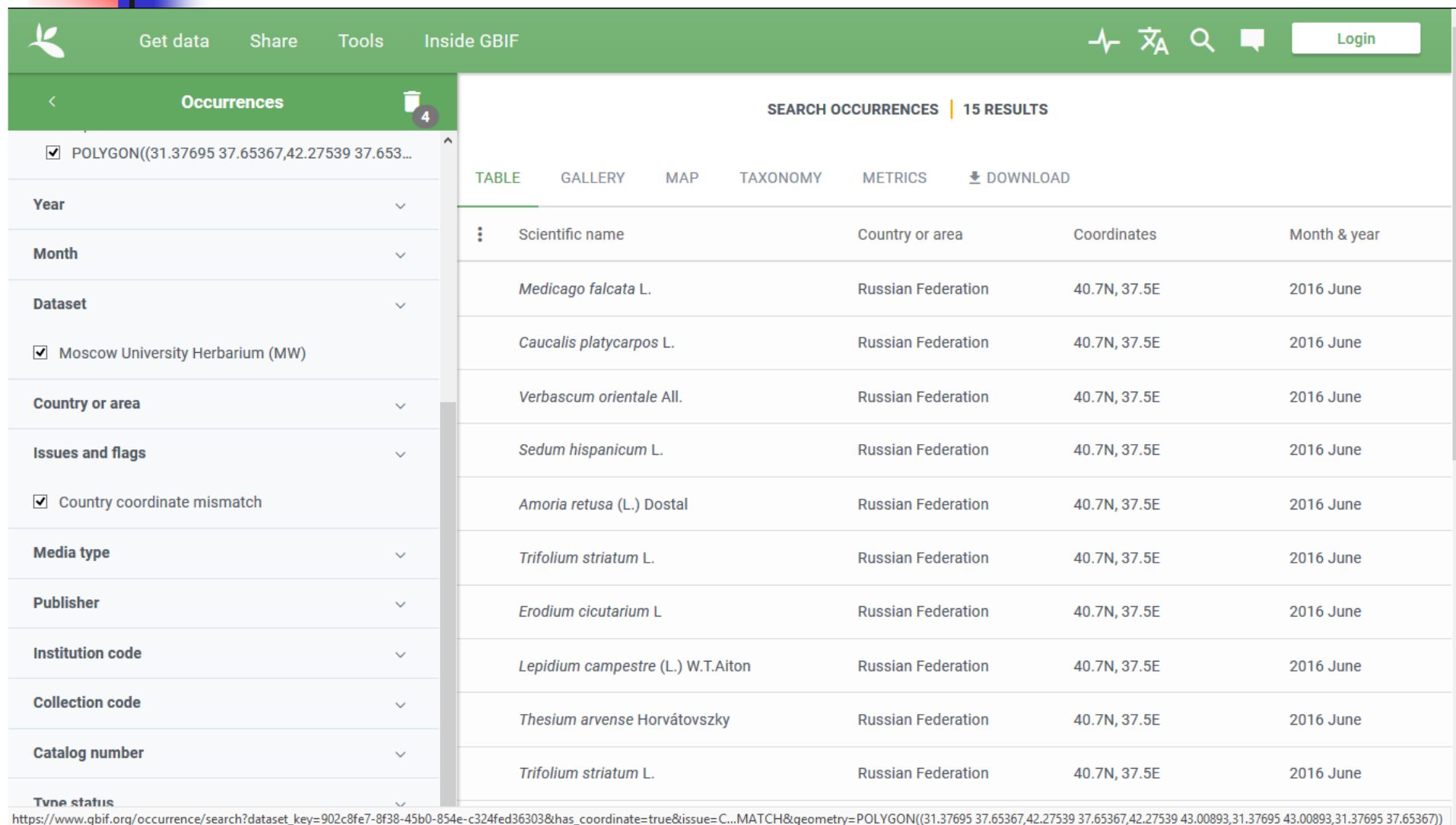


Дата создания 28.12.2017 Ссылка на этот образец [Открыть](#) Количество посещений 3

Этап сканирования 2017 (этап 3) Ссылка на скан образца [Открыть](#) Запись внес/проверил Серегин А. П.

Windows taskbar: 10:47

Функция "Issues and flags": координаты есть, но не попадают в заявленную страну



The screenshot shows the GBIF Occurrences search interface. The left sidebar contains filters for Occurrences, including Year, Month, Dataset (Moscow University Herbarium (MW)), Country or area, Issues and flags (checked), Media type, Publisher, Institution code, Collection code, Catalog number, and Type status. The main panel displays 15 results in a table format. The table has columns for Scientific name, Country or area, Coordinates, and Month & year. The results list various plant species, all from the Russian Federation, with coordinates 40.7N, 37.5E, and a date of 2016 June. The 'Issues and flags' filter is checked, and the 'Country coordinate mismatch' issue is visible.

Get data Share Tools Inside GBIF Login

Occurrences 4

POLYGON((31.37695 37.65367,42.27539 37.653...

SEARCH OCCURRENCES | 15 RESULTS


TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year
<i>Medicago falcata</i> L.	Russian Federation	40.7N, 37.5E	2016 June
<i>Caucalis platycarpus</i> L.	Russian Federation	40.7N, 37.5E	2016 June
<i>Verbascum orientale</i> All.	Russian Federation	40.7N, 37.5E	2016 June
<i>Sedum hispanicum</i> L.	Russian Federation	40.7N, 37.5E	2016 June
<i>Amoria retusa</i> (L.) Dostal	Russian Federation	40.7N, 37.5E	2016 June
<i>Trifolium striatum</i> L.	Russian Federation	40.7N, 37.5E	2016 June
<i>Erodium cicutarium</i> L.	Russian Federation	40.7N, 37.5E	2016 June
<i>Lepidium campestre</i> (L.) W.T.Aiton	Russian Federation	40.7N, 37.5E	2016 June
<i>Thesium arvense</i> Horvátovszky	Russian Federation	40.7N, 37.5E	2016 June
<i>Trifolium striatum</i> L.	Russian Federation	40.7N, 37.5E	2016 June

Country coordinate mismatch

https://www.gbif.org/occurrence/search?dataset_key=902c8fe7-8f38-45b0-854e-c324fed36303&has_coordinate=true&issue=C...MATCH&geometry=POLYGON((31.37695 37.65367,42.27539 37.65367,42.27539 43.00893,31.37695 43.00893,31.37695 37.65367))

Жёлтая метка “Country coordinate mismatch”

Get dataShareToolsInside GBIF

Synced 4 hours ago
Modified 28 August 2018

OCCURRENCE | 1 JUNE 2016

Medicago falcata L.


Lyutzerna Kleikaya In Russian Collected in Russian Federation

Plantae > Tracheophyta > Magnoliopsida > Fabales > Fabaceae > *Medicago*

Species: [Medicago falcata](#) L.

Location: Russian Federation

Basis of record: Preserved specimen



Dataset: [Moscow University Herbarium \(MW\)](#)

Publisher: [Lomonosov Moscow State University](#)

Reference: <https://plant.depo.msu.ru/open/public/item/MW10032...>

Issues: Country coordinate mismatch



Оригинальная этикетка как источник ошибки

HERBARIUM UNIVERSITATIS MOSQUENSIS (MW)

Medicago falcata L.

Краснодарский край, Новороссийский район,
дорога от Абрау-Дюрсо на Малый Утриш

N: 40,41,606 °

E: 37,30,140°

Местообитание: Фисташково-можжевеловое
редколесье

01.06.2016

Coll.: Эверетт МЧ

Det.: _____



Для чего?

7. Чтобы иметь полноценную
актуальную статистику

Сводная таблица изменений в данных

GBIF

Dataset ingestion tools

DATASET INGESTION HISTORY

OVERINGESTED DATASETS

IPT SYNC STATE

INGESTION MONITOR

PIPELINES INGESTION MONITOR

DATASET INGESTION HISTORY

ABOUT

Moscow University Herbarium (MW)

902c8fe7-8f38-45b0-854e-c324fed36303

974 295 occurrences in the GBIF index

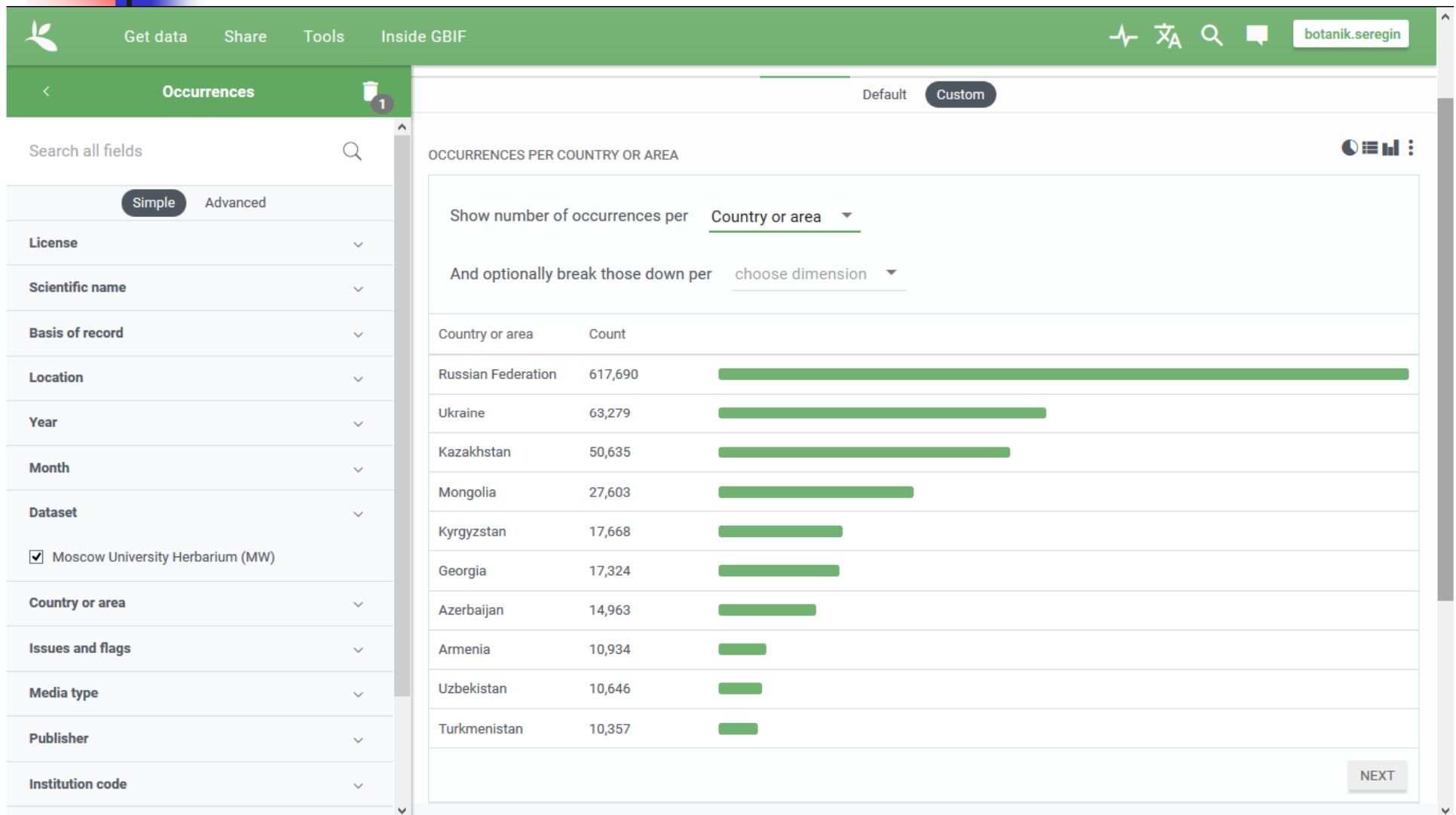
☐ Show details

CLEAR

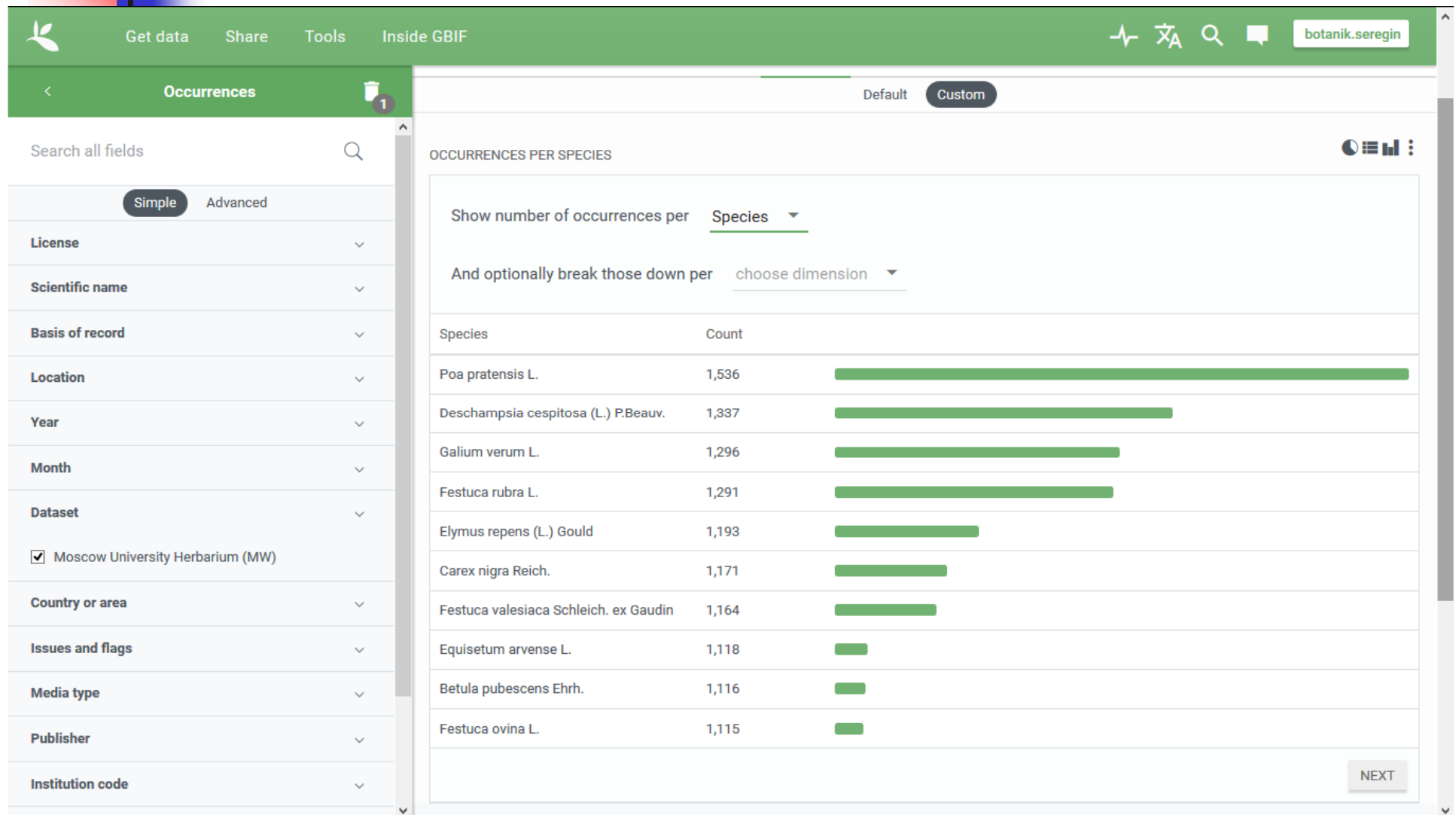
GO TO DATASET

Started	Finished download	Duration	New	Updated	Unchanged	
2019-03-23 06:25	2019-03-23 06:25	a few seconds	22	22 776	951 487	⋮
2019-03-16 05:40	2019-03-16 05:40	a few seconds	26	23 055	951 192	⋮
2019-03-09 04:51	2019-03-09 04:51	a few seconds	4 109	11 002	959 149	⋮
2019-03-02 04:12	2019-03-02 04:12	a few seconds	0	283	971 449	⋮
2019-02-23 03:28	2019-02-23 03:28	a few seconds	0	0	971 732	⋮
2019-02-16 02:42	2019-02-16 02:42	a few seconds	0	246	971 486	⋮
2019-02-09 02:00	2019-02-09 02:00	a few seconds	0	0	971 732	⋮
2019-02-02 01:17	2019-02-02 01:17	a few seconds	0	971 732	0	⋮

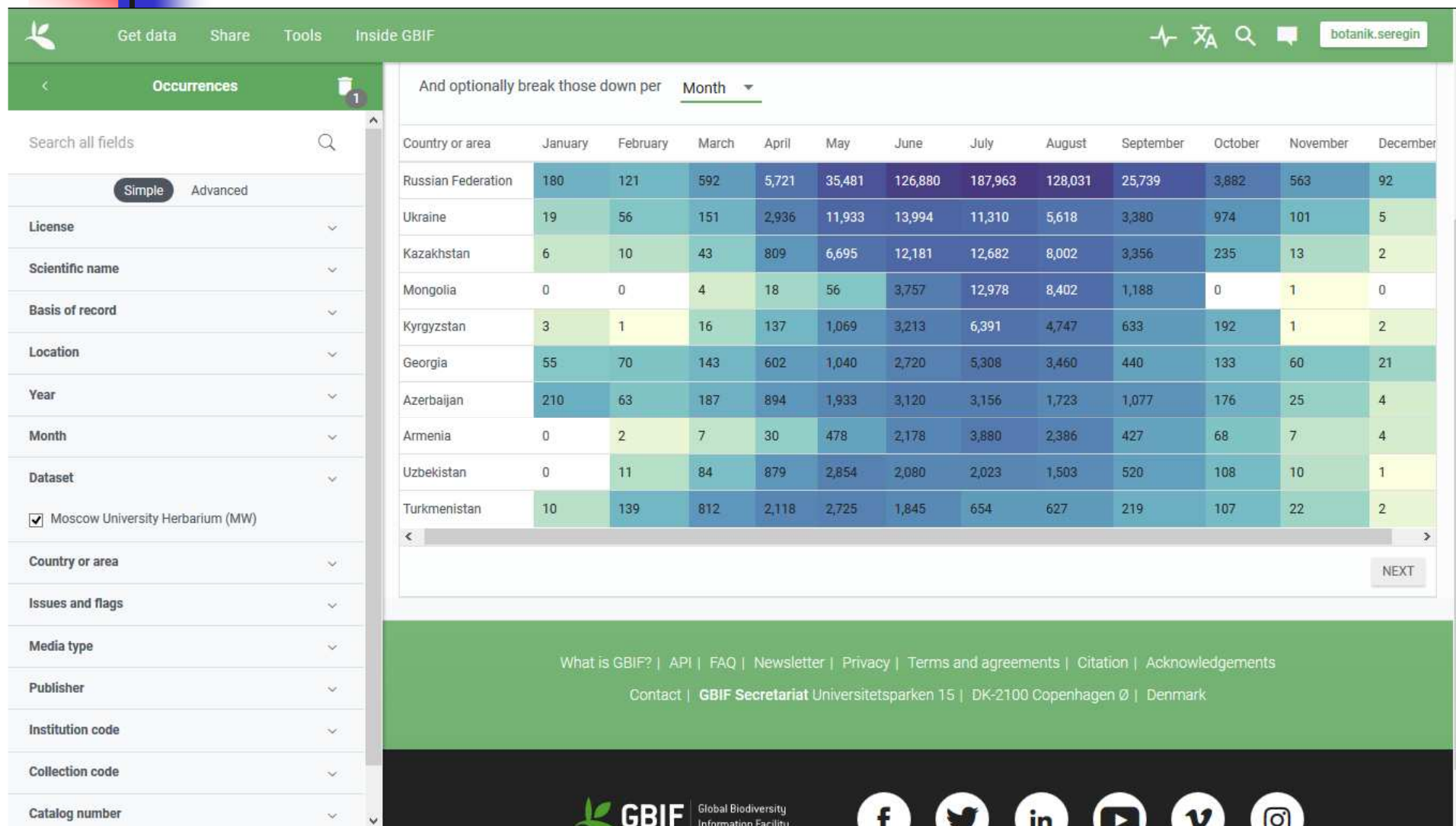
Гербарий МГУ: статистика по странам



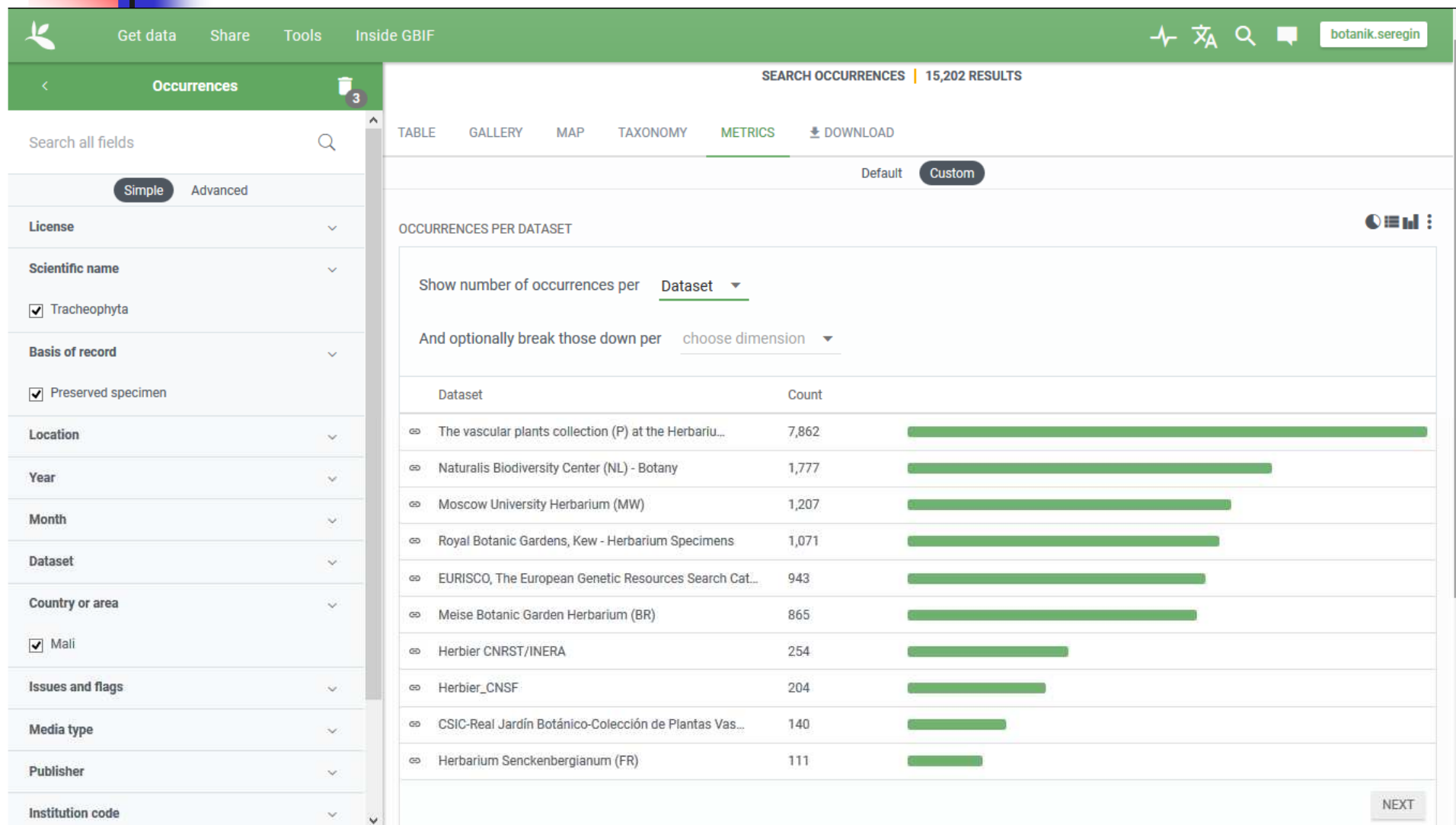
Гербарий МГУ: статистика по видам



Гербарий МГУ: статистика по странам и месяцам



Гербарий МГУ: статистика по гербарным образцам из Мали





Для чего?

8. Чтобы не тратиться на свой портал

Цифровой гербарий МГУ

(<http://plant.depo.msu.ru/>)

- Поддержка портала и постоянная заливка новых данных стоят 350 000 рублей в год



ДЕПОЗИТАРИЙ
ЖИВЫХ СИСТЕМ
«НОЕВ КОВЧЕГ»

Микроорганизмы и грибы

Растения

Животные

Биоматериалы человека

Био. информация

RU EN



[Вход в систему](#)

[О системе](#)

[Коллекции](#)

[Контакты](#)

[Ссылки](#)

[Инфраструктура](#)

[Цитировать](#)

Сейчас в базе данных (гербарий, образцы ДНК, фотографии растений в природе):



Образцов: [974285](#)



Изображений: [968031](#)



Видов: [37782](#)



Геопривязок: [361160](#)



Этикеток + OCR: [153706](#) + [320340](#)

Национальный банк-депозитарий живых систем

Цифровой гербарий МГУ

Проект Московского университета "Ноев ковчег" посвящен созданию многофункционального сетевого хранилища биологического материала.

Планируется работа с материалом всех возможных типов - от отдельных биологических молекул до целых живых организмов.

Создание депозитария позволит сохранить биоразнообразие нашей планеты и создать новые способы полезного использования биологического материала.

Поиск

Все поля



Выше рода



Род / Вид (лат., рус.)



[Расширенный поиск](#)

[Поиск по русским названиям](#)

[Поиск по этикеткам и OCR](#)

Сеточное картирование флоры Владимирской области

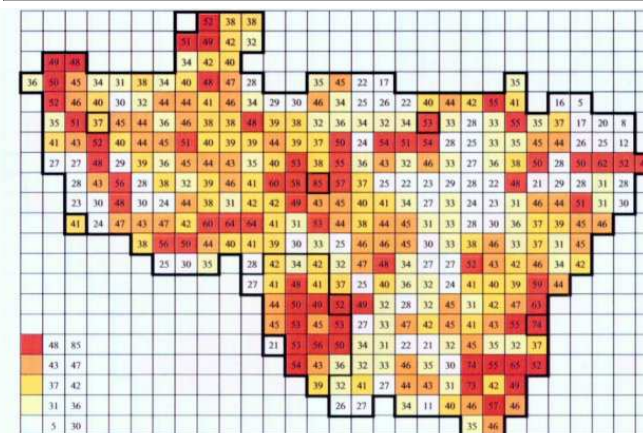
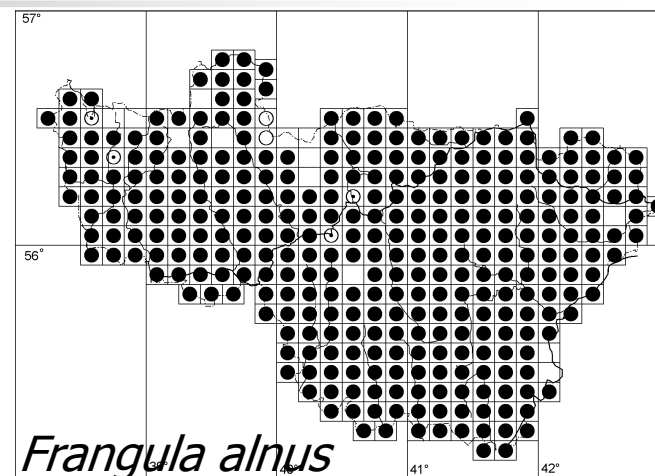


Серегин, 2012

А.П. Серёгин
ФЛОРА ВЛАДИМИРСКОЙ ОБЛАСТИ:
анализ данных сеточного картирования

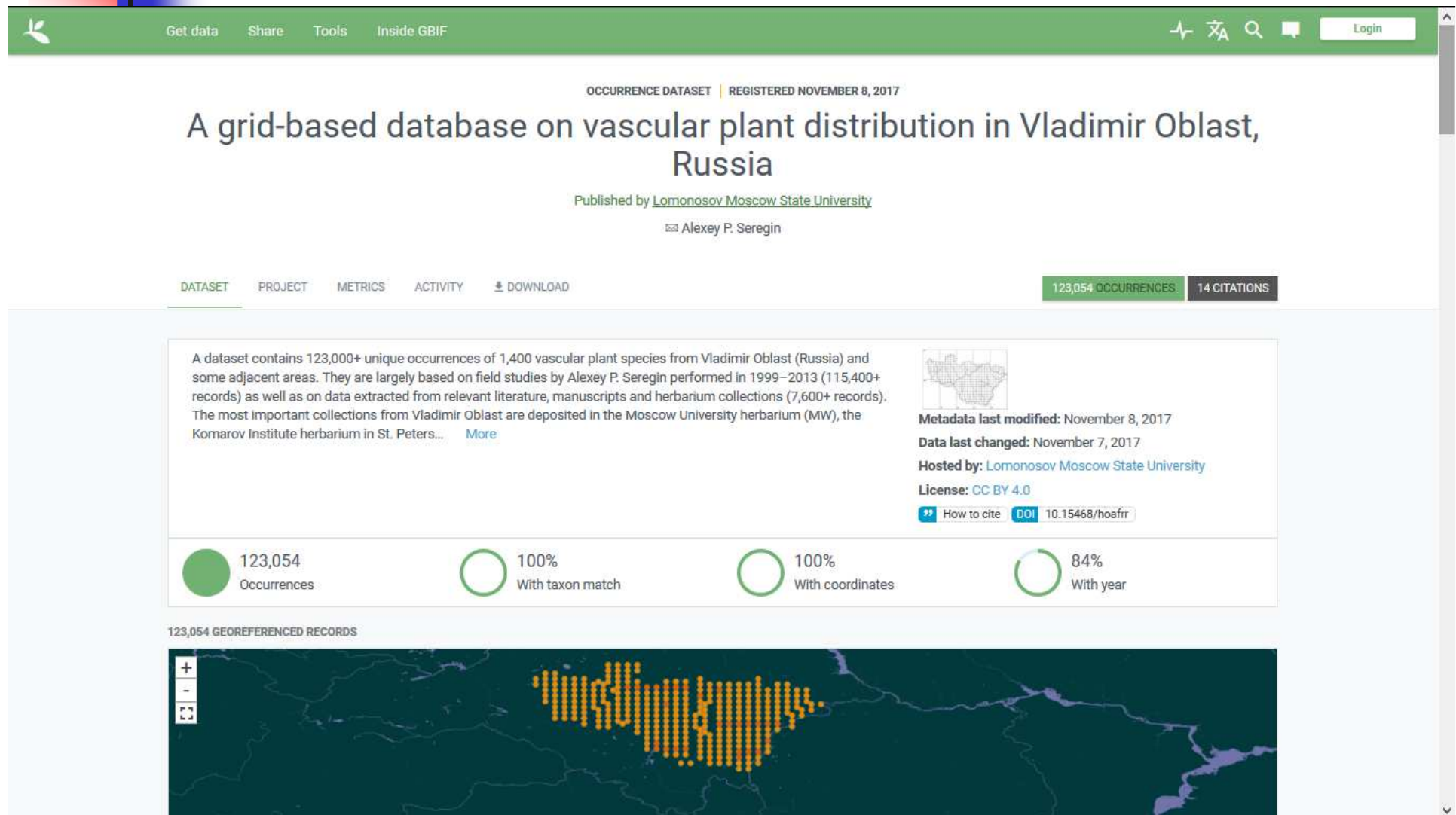


Серегин, 2014




Цв. рис. 9.18. Число видов эвтрофных местообитаний.
Примечание к рисунку: учтено 107 видов, имеющих 8–9 баллов по N-шкале Элленберга (всего 13 215 записей); ещё 14 видов с оценками 8 и 9 были исключены из анализа — это наиболее редкие заносные виды, в т.ч. 3 вида, встречающихся (почти) исключительно по железным дорогам.





GBIF-страница массива данных по флоре Владимирской обл.



Рамка на карте – список видов из квадрата "И12"



Get dataShareToolsInside GBIF



Login

Occurrences

3

License

Scientific name

Basis of record

Location

☐ No preference

☒ Including coordinates

☐ Without coordinates

☐ Include records where coordinates are flagged as suspicious

Vladimir

OSM, OMT, GBIF

☒ POLYGON((40.33485 56.08446,40.50514 56....

SEARCH OCCURRENCES | 743 RESULTS

TABLE

GALLERY


MAP

TAXONOMY

METRICS

DOWNLOAD

	Scientific name	Country or area	Coordinates	Month & year	Basis of record	Da
	<i>Malva sylvestris</i> L.	Russian Federation	56.1N, 40.4E	2012 July	Human observation	A c
	<i>Bromus commutatus</i> Schrad.	Russian Federation	56.1N, 40.4E	2012 July	Human observation	A c
	<i>Datura stramonium</i> L.	Russian Federation	56.1N, 40.4E	2012 September	Human observation	A c
	<i>Sorghum halepense</i> Pers.	Russian Federation	56.1N, 40.4E	2012 September	Human observation	A c
	<i>Phragmites altissimus</i> (Benth.) Mabilie	Russian Federation	56.1N, 40.4E	2012 January	Human observation	A c
	<i>Scilla siberica</i> Haw.	Russian Federation	56.1N, 40.4E	2011 May	Human observation	A c
	<i>Sorbaria sorbifolia</i> (L.) A.Braun	Russian Federation	56.1N, 40.4E	2011 May	Human observation	A c
	<i>Lilium martagon</i> L.	Russian Federation	56.1N, 40.4E	2011 May	Human observation	A c
	<i>Erophila verna</i> (L.) Besser	Russian Federation	56.1N, 40.4E	2011 May	Human observation	A c
	<i>Eragrostis minor</i> Host	Russian Federation	56.1N, 40.4E	2011 July	Human observation	A c
	<i>Rumex stenophyllus</i> Ledeb.	Russian Federation	56.1N, 40.4E	2011 July	Human observation	A c
	<i>Setaria pycnocomia</i> (Steud.) Henrard ex N...	Russian Federation	56.1N, 40.4E	2011 July	Human observation	A c
	<i>Atriplex</i> L.	Russian Federation	56.1N, 40.4E	2011 July	Human observation	A c
	<i>Centaurea diffusa</i> Lam.	Russian Federation	56.1N, 40.4E	2011 July	Human observation	A c



К флоре юго-востока Владимирской области (Васюков, 2015)

74

Васюков В.М. К флоре юго-востока Владимирской области

УДК 581.95 (470.314)

К ФЛОРЕ ЮГО-ВОСТОКА ВЛАДИМИРСКОЙ ОБЛАСТИ

В.М. Васюков

Ключевые слова
флора
сосудистые растения
Булатниково
Муромский район
Владимирская область

Аннотация. В окрестностях села Булатниково Муромского района Владимирской области выявлено 562 вида сосудистых растений, в том числе 9 видов, занесенных в региональную Красную книгу: *Astragalus cicer*, *Carex caryophyllea*, *Cucubalus baccifer*, *Dianthus borbasii*, *Gentiana cruciata*, *Helichrysum arenarium*, *Hypericum hirsutum*, *Laserpitium prutenicum*, *Seseli annuum*. Впервые для флоры области приводятся 9 видов: *Heracleum mantegazzianum*, *Lepidium neglectum*, *Lotus zhegulensis*, *Portulaca grandiflora*, *Ranunculus attingens*, *R. obtusulus*, *Sambucus sibirica*, *Taraxacum proximum*, *Viola* × *villaquensis*.

Поступила в редакцию 01.04.2015

Владимирская область – хорошо исследованная во флористическом отношении территория Средней России. Главные вехи в изучении флоры области связаны с именами В.Я. Цингера, А.Ф. Флёрова, Н.А. Казанского, М.И. Назарова, В.Н. Тихомирова, В.С. Новикова, А.И. Губанова, М.П. Шилова, И.В. Вахромеева, Е.А. Борисовой, В.Г. Папченкова, А.П. Серёгина и др.

Современная монография А.П. Серёгина (2012) по флоре Владимирской области с

ся 862 вида растений, для квадрата О12 – 371 вид.

Во флоре окр. с. Булатниково (западная часть Муромского р-на) выявлено 562 вида сосудистых растений (аборигенные, заносные и дичающие интродуценты); кроме того приведены 79 видов недичающих интродуцентов (обозначены «+») и 18 видов (обозначены «—»), известные в квадрате О12 (I.c.), но не обнаруженные за время исследований.

Рамка на карте – список видов из квадрата "O12"

The screenshot displays the GBIF Occurrences search interface. On the left, a sidebar shows the 'Occurrences' tab with a map view. The map includes a blue rectangular selection box and a text input field containing a GeoJSON polygon: `POLYGON((41.65157 55.65694,41.84933 55....`. The main panel shows 'SEARCH OCCURRENCES | 371 RESULTS' with a table of results. The table has columns for Scientific name, Country or area, Coordinates, Month & year, Basis of record, and Data quality. The results list various plant species observed in the Russian Federation during August 2009.

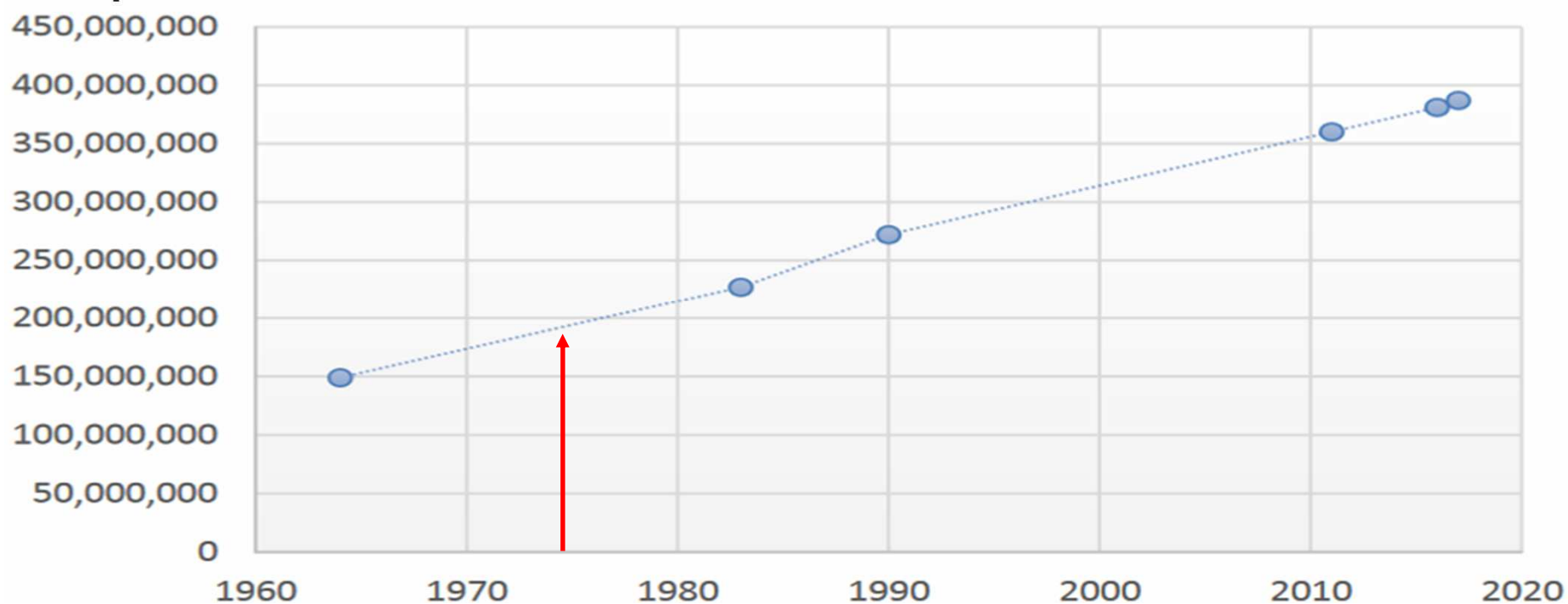
Scientific name	Country or area	Coordinates	Month & year	Basis of record	Data quality
<i>Centaurea diffusa</i> Lam.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Erigeron septentrionalis</i> (Fernald & Wiegand) Rydb.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Galium boreale</i> L.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Elytrigia repens</i> (L.) Nevski	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Dianthus deltoides</i> L.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Pyrus communis</i> L.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Sanguisorba officinalis</i> L.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Capsella bursa-pastoris</i> Medik.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Persicaria minor</i> Opiz	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Rumex stenophyllus</i> Ledeb.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Centaurea phrygia</i> L.	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Symphyotrichum salignum</i> (Willd.) G.L.Ne...	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate
<i>Schedonorus arundinaceus</i> (Schreb.) Du...	Russian Federation	55.7N, 41.8E	2009 August	Human observation	Accurate



Для чего?

9. Чтобы не отстать от
прогресса

Цифровизация

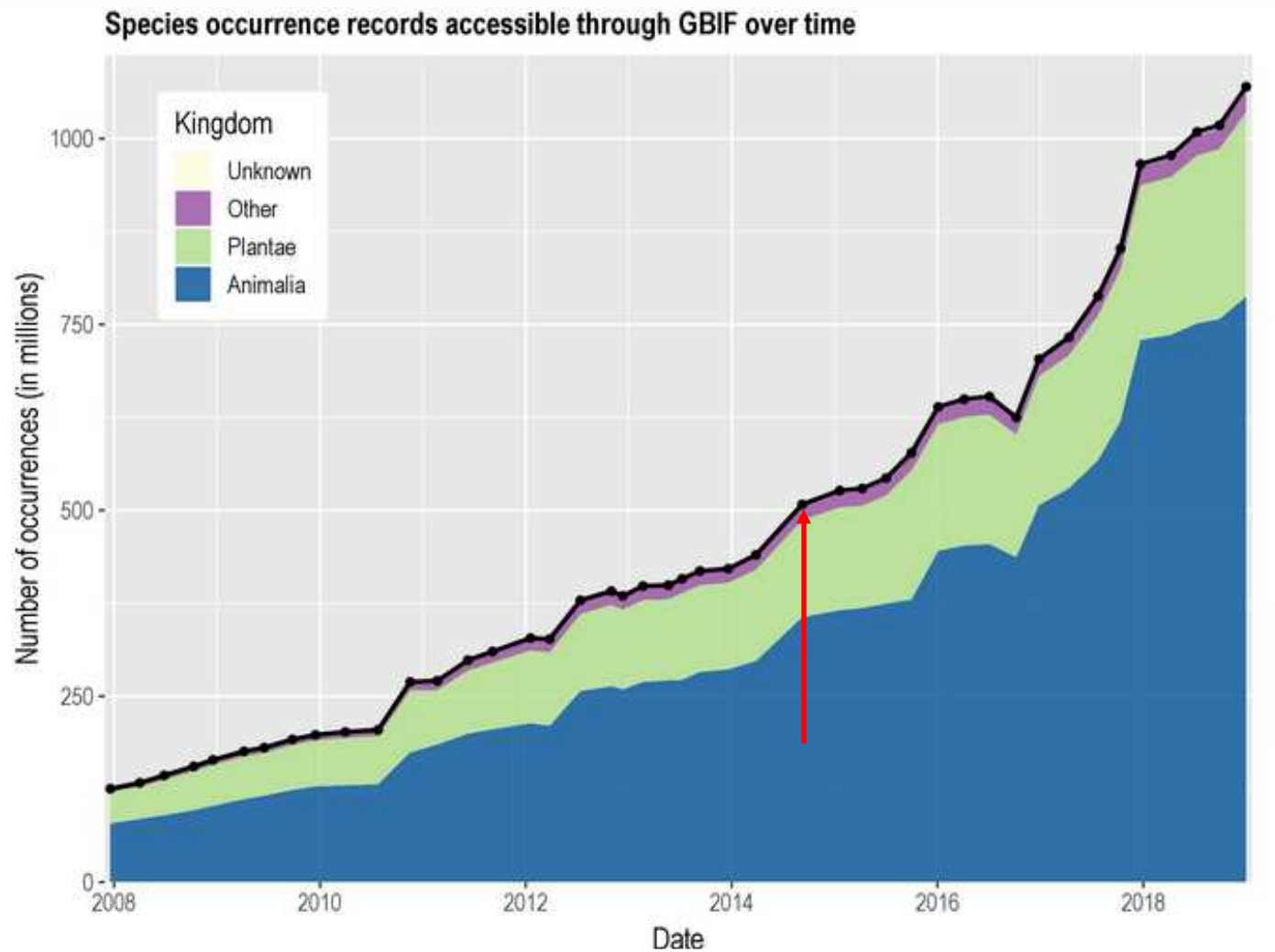


В мире – 387 500 000 гербарных образцов (физически) (Thiers, 2019)

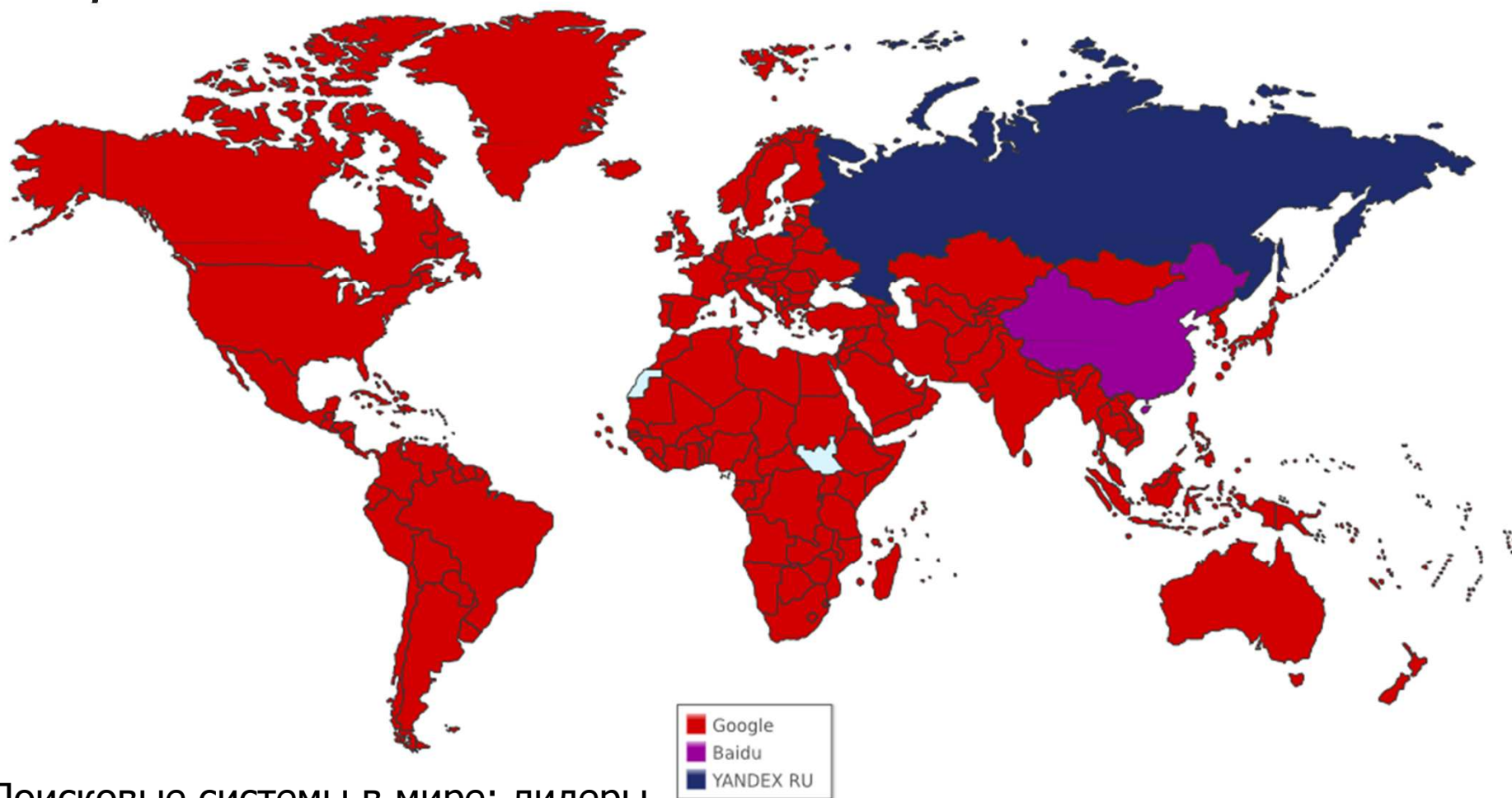
В GBIF – 73 000 000 гербарных образцов (в виде электронных записей)

Это 18,8%

Концентрация



Глобализация



Поисковые системы в мире: лидеры

Универсализация



Париж



Нью-Йорк

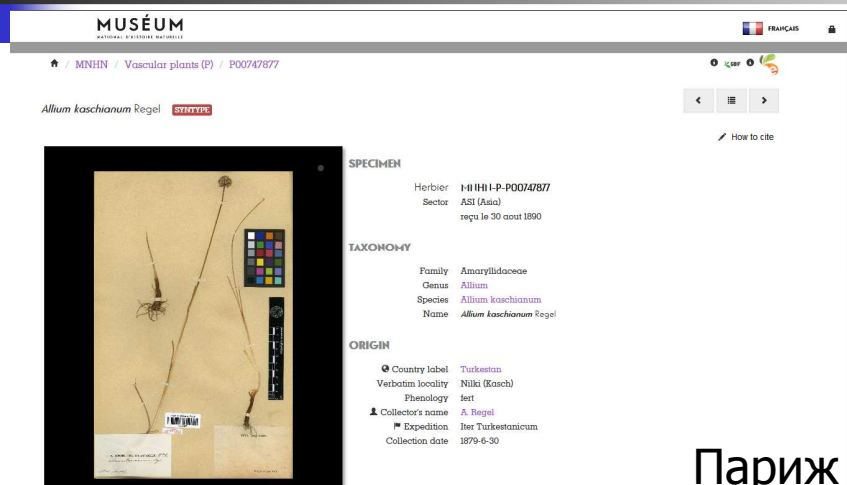


Кью

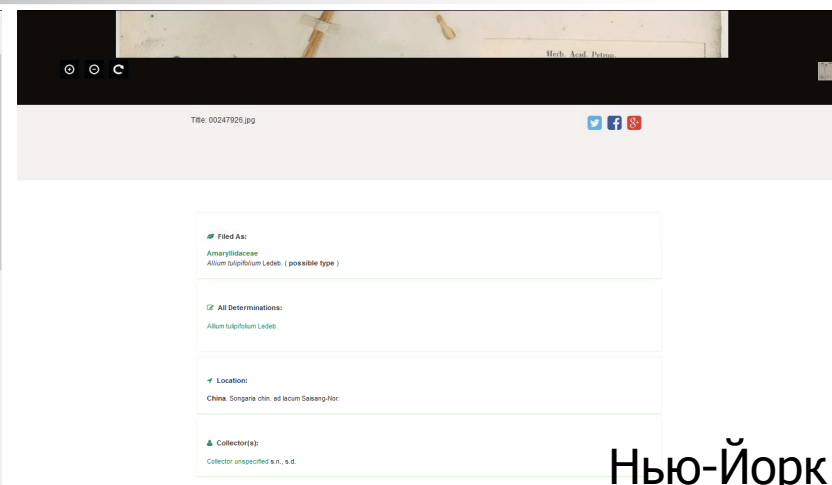


Москва

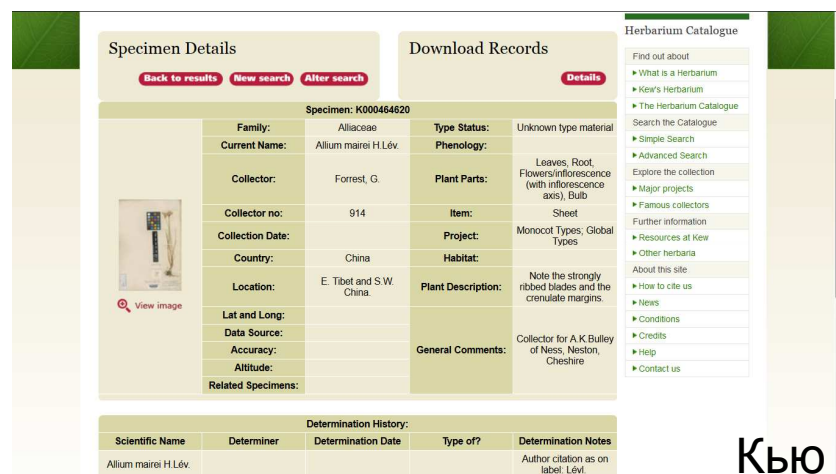
Универсализация



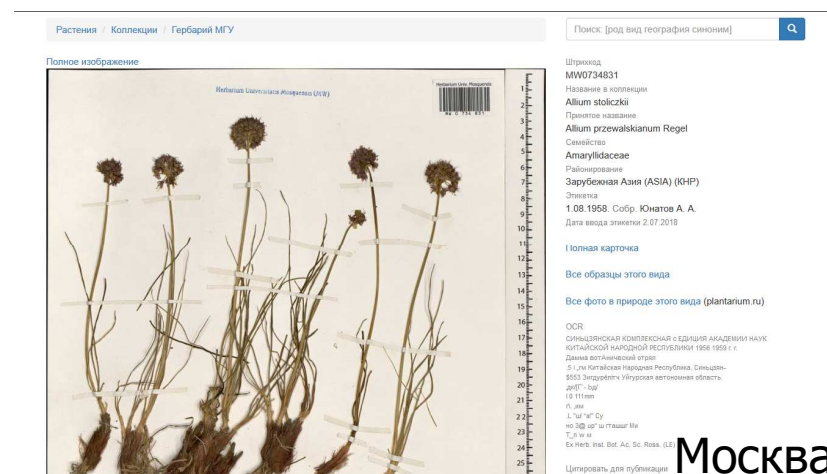
Париж



Нью-Йорк



Кью



Москва

Универсализация

Record	Occurrence
Basis of record: PRESERVED_SPECIMEN	Catalogue number: P00747877
Collection code: P	Occurrence ID: http://cooldb.mnhn._/mnhn/p/p00747877
Institution code: MNHN	Occurrence remarks: reçu le 30 août 1890
	Preparations: hb
	Recorded by: Regel, A.
Event	Identification
Day: 30	Type status: Syntype
Month: 6	
Year: 1879	
Event date: 1879-06-30T00:00:00	
Taxon	Location
Kingdom: Plantae	Country or area: unknown or invalid
Phylum: Tracheophyta	Country code: ZZ
Class: Liliopsida	Verbatim locality: Niki (Kasch)
Order: Asparagales	
Family: Amaryllidaceae	
Genus: Allium	
Specific epithet: kaschianum	
Scientific name: Allium kaschianum Regel.	
Scientific name authorship:	
Rank: SPECIES	
Taxonomic status: ACCEPTED	
Other	
Identifier: http://cooldb.mnhn._/mnhn/p/p00747877	
Record license: http://creativecommons._/by/4.0/legalcode	
Modified: 2015-09-05T09:21:00:000+0000	

P00747877

Record	Occurrence
Basis of record: PRESERVED_SPECIMEN	Catalogue number: 247926
Collection code: NY	Occurrence ID: c18b3c7a3f18-4cd4-9eb5-e941c28ebac
Collection ID: http://biocol.org._col.org/col/15556	Occurrence remarks: Herb. Acad. Petrop. sheet
Dataset name: Vascular plants	Preparations: s.n.
Institution code: NY	Record number: Collector unspecified
Institution ID: http://biocol.org._col.org/col/15556	
Event	Identification
Verbatim event date: s.d.	Type status: Type
Taxon	Location
Kingdom: Plantae	Continent: ASIA
Phylum: Tracheophyta	Country or area: China
Class: Liliopsida	Country code: CN
Order: Asparagales	Locality: Songaria chin. ad lacum Salsang-Nor.
Family: Amaryllidaceae	
Genus: Allium	
Specific epithet: tulipifolium	
Nomenclatural code: ICN	
Scientific name: Allium tulipifolium Ledeb.	
Rank: SPECIES	
Taxonomic status: ACCEPTED	
Other	
Identifier: c18b3c7a3f18-4cd4-9eb5-e941c28ebac	
Language: en	
Record license: http://creativecommons._/by/4.0/legalcode	
Modified: 2016-10-21T15:56:00:000+0000	
References: http://sweet-	

NY00247926

Record	Occurrence
Basis of record: PRESERVED_SPECIMEN	Catalogue number: K000464620
Collection code: Herbarium	Occurrence ID: http://specimens._barium/_/K000464620
Institution code: K	Occurrence remarks: Collector for A.K.Bulley of Ness, Neston, Cheshire
	Record number: 914
	Recorded by: Forrest, G.
Event	Taxon
Event remarks: Note the strongly ribbed blades and the crenulate margins.	Kingdom: Plantae
	Phylum: Tracheophyta
	Class: Liliopsida
	Order: Asparagales
	Family: Amaryllidaceae
	Genus: Allium
	Specific epithet: mairei
	Higher classification: ALLIACEAE
	Scientific name: Allium mairei H.L.
	Scientific name authorship:
	Rank: SPECIES
	Taxon remarks: Author citation as on label: Lévl.
	Taxonomic status: ACCEPTED
Location	Other
Country or area: China	Identifier: K000464620
Country code: CN	Record license: http://creativecommons._/by/4.0/legalcode
E. Tibet and S.W. China.	Modified: 2012-09-07T13:40:36:300+0000

K000464620

Record	Occurrence
Basis of record: PRESERVED_SPECIMEN	Catalogue number: MW0734831
Collection code: MW	Disposition: in collection
Collection ID: urn:lsid:biocol.org:col:15550	Occurrence ID: MW0734831
Dataset ID: urn:lsid:biocol.org:col:15550:01	Occurrence status: present
Dataset name: Moscow Digital Herbarium	Preparations: herbarium specimen
Information withheld: no label data and provenience	Recorded by: Yurakov A. A.
Institution code: Moscow State University	Associated media:
Institution ID: http://gbio.org._state-university	
Owner institution code: MSU	
Event	Taxon
Day: 1	Kingdom: Plantae
Month: 8	Phylum: Tracheophyta
Year: 1958	Class: Liliopsida
Event date: 1958-08-01T00:00:00	Order: Asparagales
Sampling protocol: common practice of herbarium collecting	Family: Amaryllidaceae
	Genus: Allium
	Specific epithet: stoliczskii
	Accepted name usage ID: 79070519
	Higher classification: Plantae(Tracheophyta)Liliopsida(Asparagales)AmaryllidaceaeAllium
	Accepted name usage: Allium przewalskianum
	Nomenclatural code: International Code of Nomenclature for algae, fungi, and plants
	Parent name usage: Allium
	Parent name usage ID: 11477205
	Scientific name: Allium stoliczskii Regel
	Rank: SPECIES
	Taxonomic status: SYNONYM
	Vernacular name: Лук

MW0734831



Для чего?

10. Чтобы учить искусственный интеллект определять растения и животные по фотографиям



Observations

[Go](#)[Filters](#)

The World

17,054,465
OBSERVATIONS

205,900
SPECIES

67,414
IDENTIFIERS

457,763
OBSERVERS

 Map

 Grid

 List



 Places of Interest



Allium ursinum

Menlove Avenue, Li... • Mar 23, 2019



1min



Zizina otis lampae

Western Water Catc...
• Mar 23, 2019



1min



Unknown

Zandmotorpad, 2553...
• Mar 23, 2019



1min



Order Lepidoptera

Serowe Botswana • Mar 12, 2019



1min



Fagus sylvatica



Map Legend 

The iNaturalist Species Classification and Detection Dataset

Grant Van Horn¹ Oisin Mac Aodha¹ Yang Song² Yin Cui³ Chen Sun²
Alex Shepard⁴ Hartwig Adam² Pietro Perona¹ Serge Belongie³

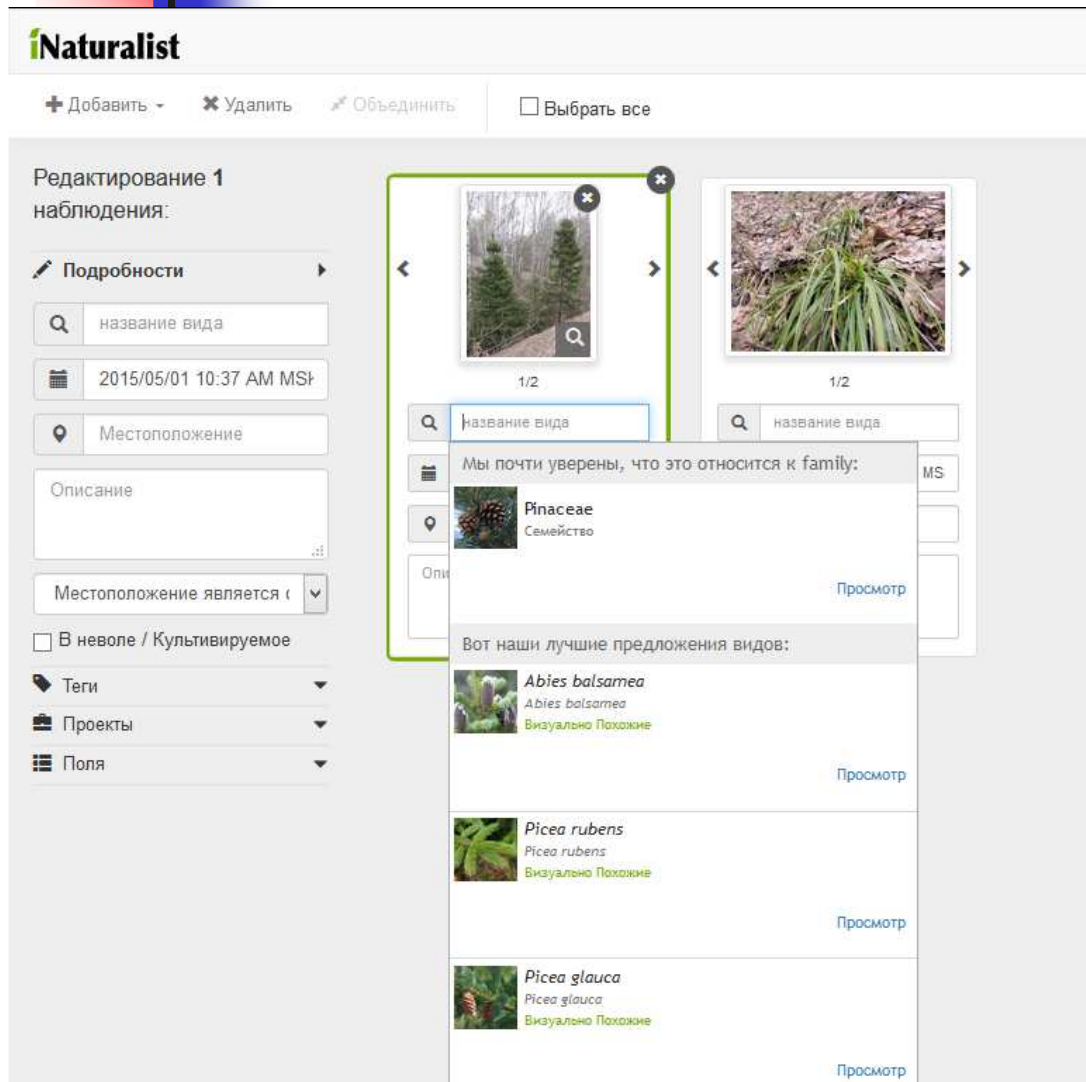
¹Caltech ²Google ³Cornell Tech ⁴iNaturalist

Abstract

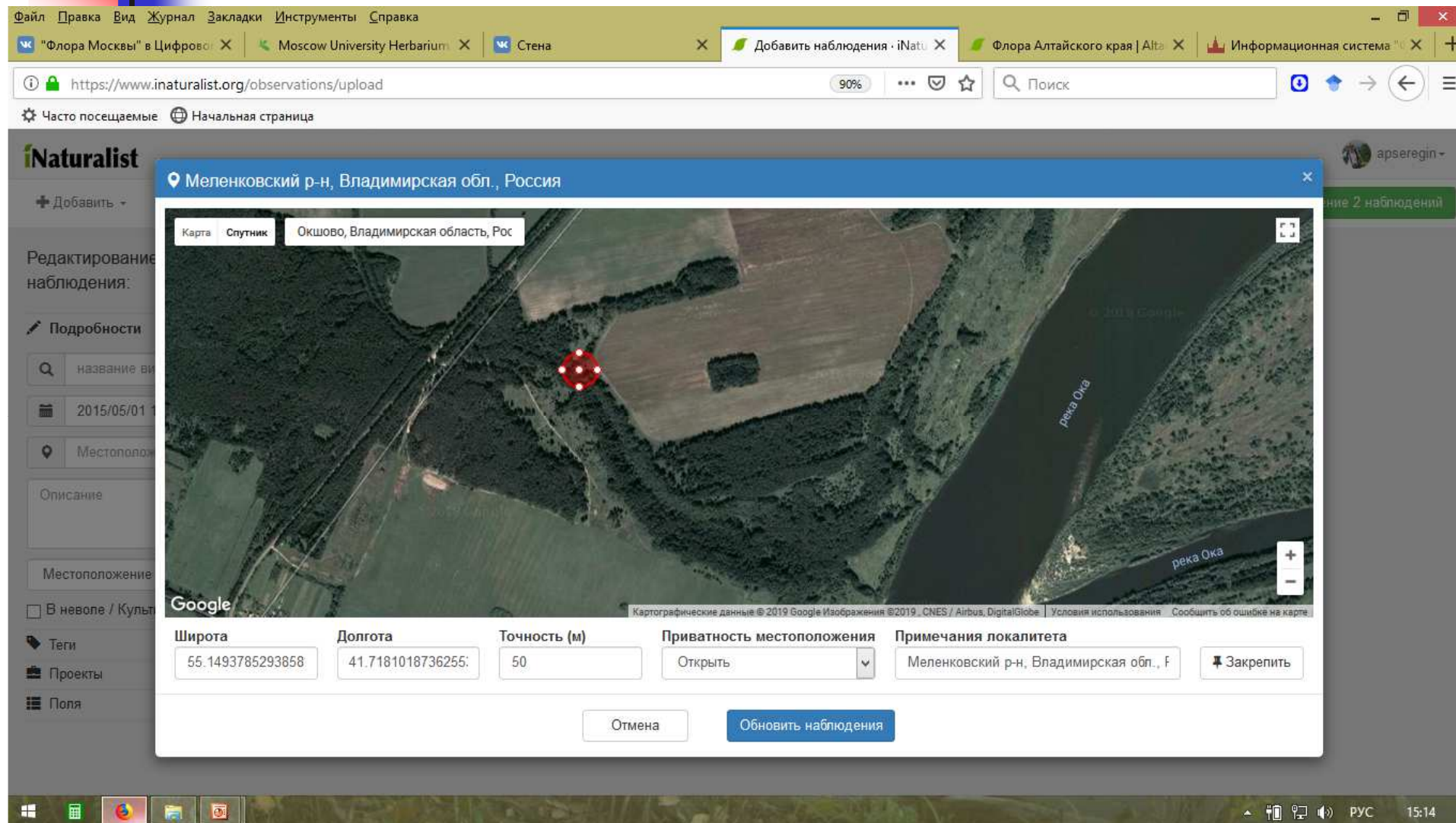
Existing image classification datasets used in computer vision tend to have a uniform distribution of images across object categories. In contrast, the natural world is heavily imbalanced, as some species are more abundant and easier



Искусственный интеллект определяет растения по фото

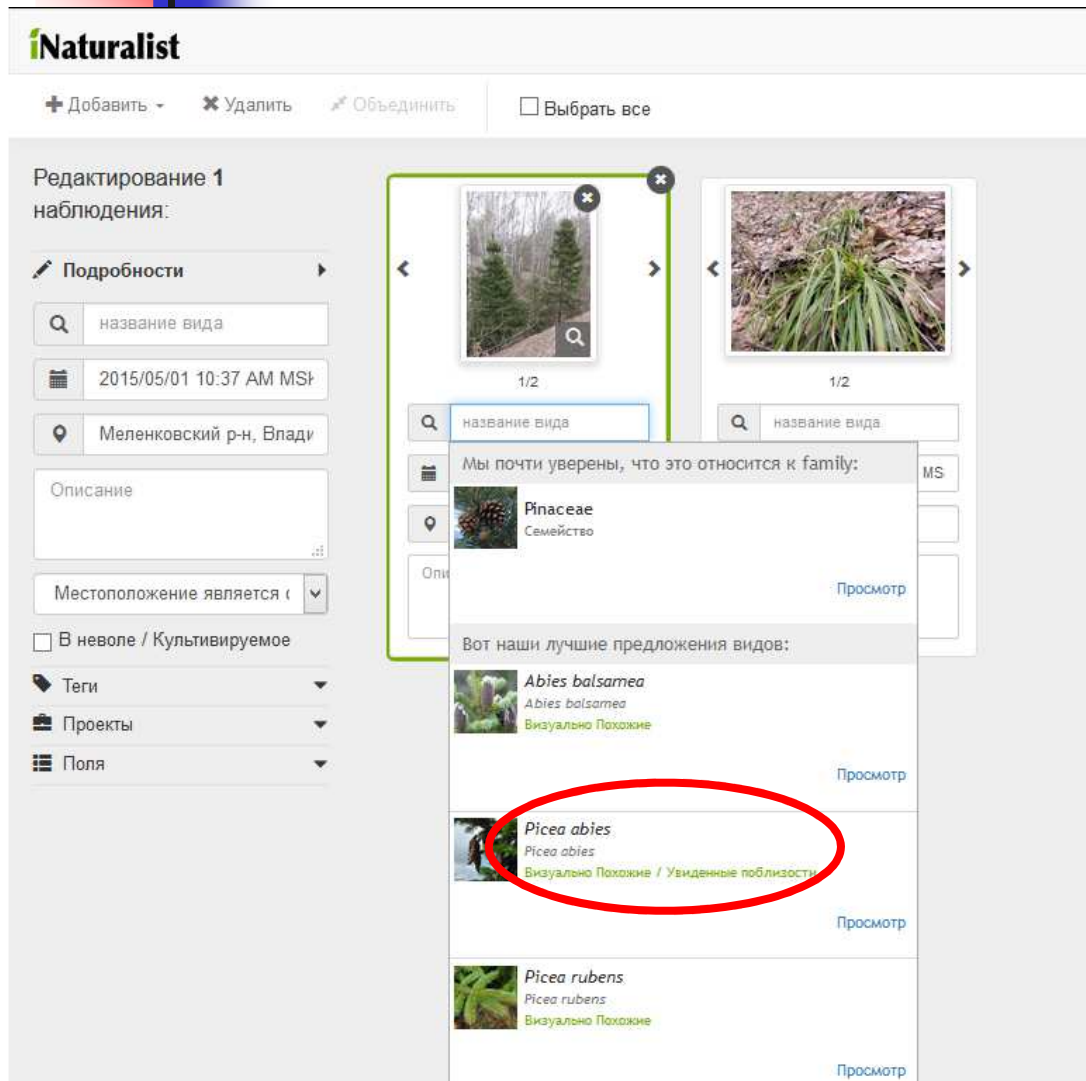


Искусственный интеллект определяет растения по фото





Искусственный интеллект определяет растения по фото и геоданным

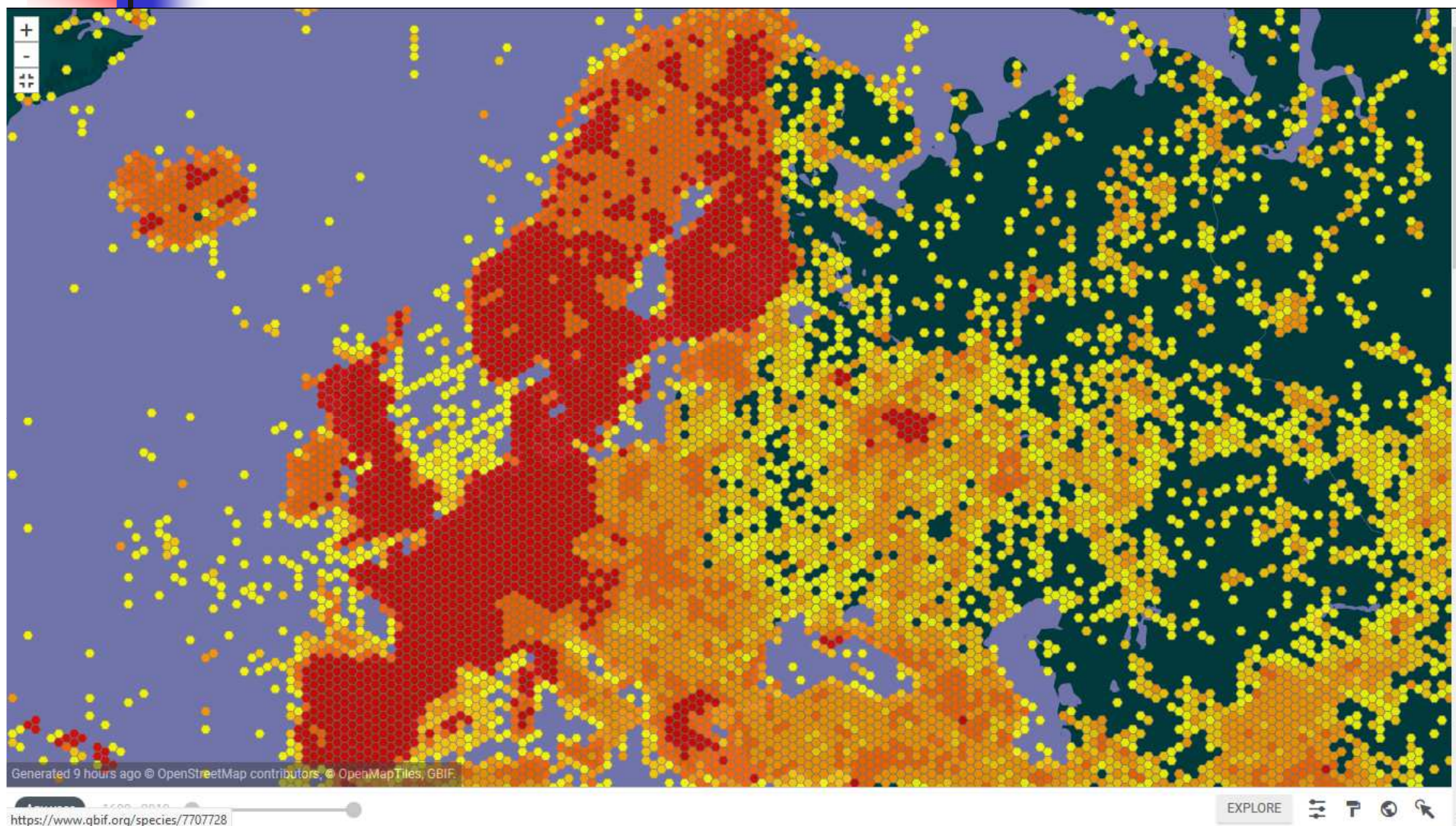


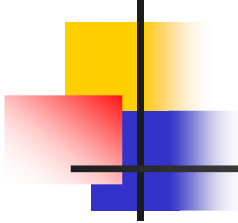


Для чего?

Вместо заключения

Один в поле – воин: сосудистые растения на карте GBIF





Давайте ещё раз задумаемся: что это даёт?

- миру?
- стране?
- университету?
- гербарию?
- мне?
- обществу?