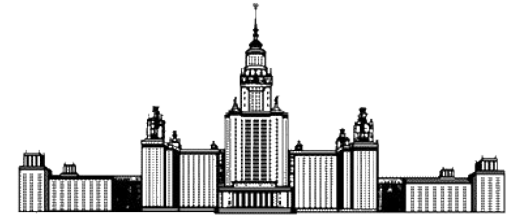
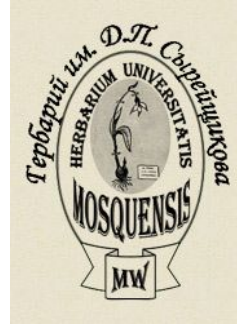




ДЕПОЗИТАРИЙ
ЖИВЫХ СИСТЕМ
«НОЕВ КОВЧЕГ»

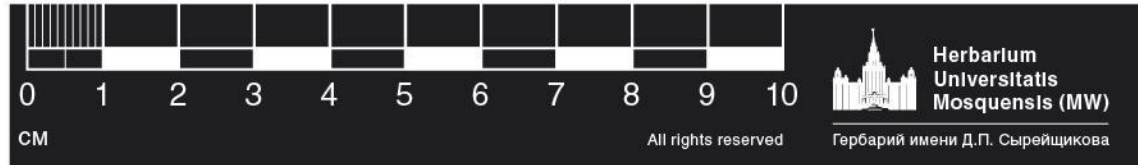


Moscow Digital Herbarium and the *National Depository Bank of Live Systems Initiative (Russia)*

Dr Sci Alexey P. Seregin
Lomonosov Moscow State University

Moscow University Herbarium (MW)

- Founded ca. 1780
- The second largest herbarium in Russia
- Six staff members (science & technical)
- Part of the *National Depository Bank of Live Systems* initiative (launched by the Moscow University)
- No international loans due to custom regulations



Specimen Total

- **1,011,253** specimens (as of Nov 2016)
including:
- 924,167 vascular plants
- 77,086 bryophytes
- ca. 10,000 lichens

Statistics update is available once a year.



Herbarium
Universitatis
Mosquensis (MW)

Гербарий имени Д.П. Сырейщикова

All rights reserved

Specimen Ranking



- 61th in the world
- 24th among university herbaria
- 2nd in Russia (after Komarov Institute)

Collection Growth

- Mean annual increase in 2005-2016 was 15,100 specimens
- In 2016, we added 22,013 specimens (expeditions, old collections, gifts, exchange, etc.)



Herbarium
Universitatis
Mosquensis (MW)

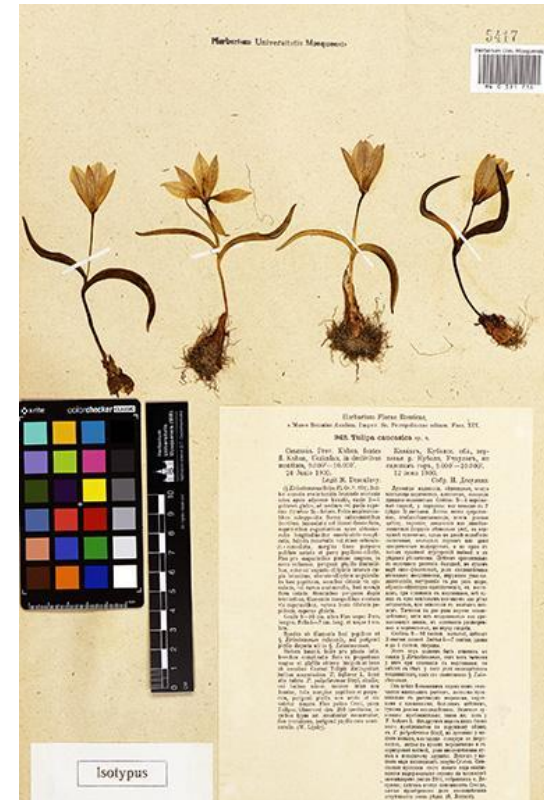
Гербарий имени Д.П. Сырейщикова

All rights reserved

Taxonomic Outline

- 39,323 species (excl. historic collections) including:
 - 37,100 vascular plants
 - 2,223 bryophytes

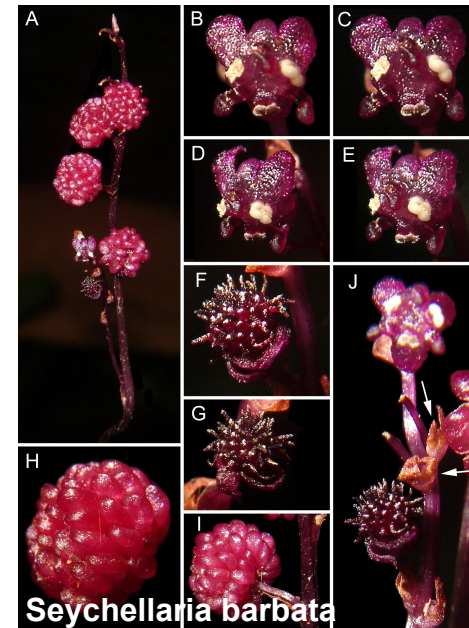
Types of ca. 3,000 taxa are curated separately (4,620 specimens).



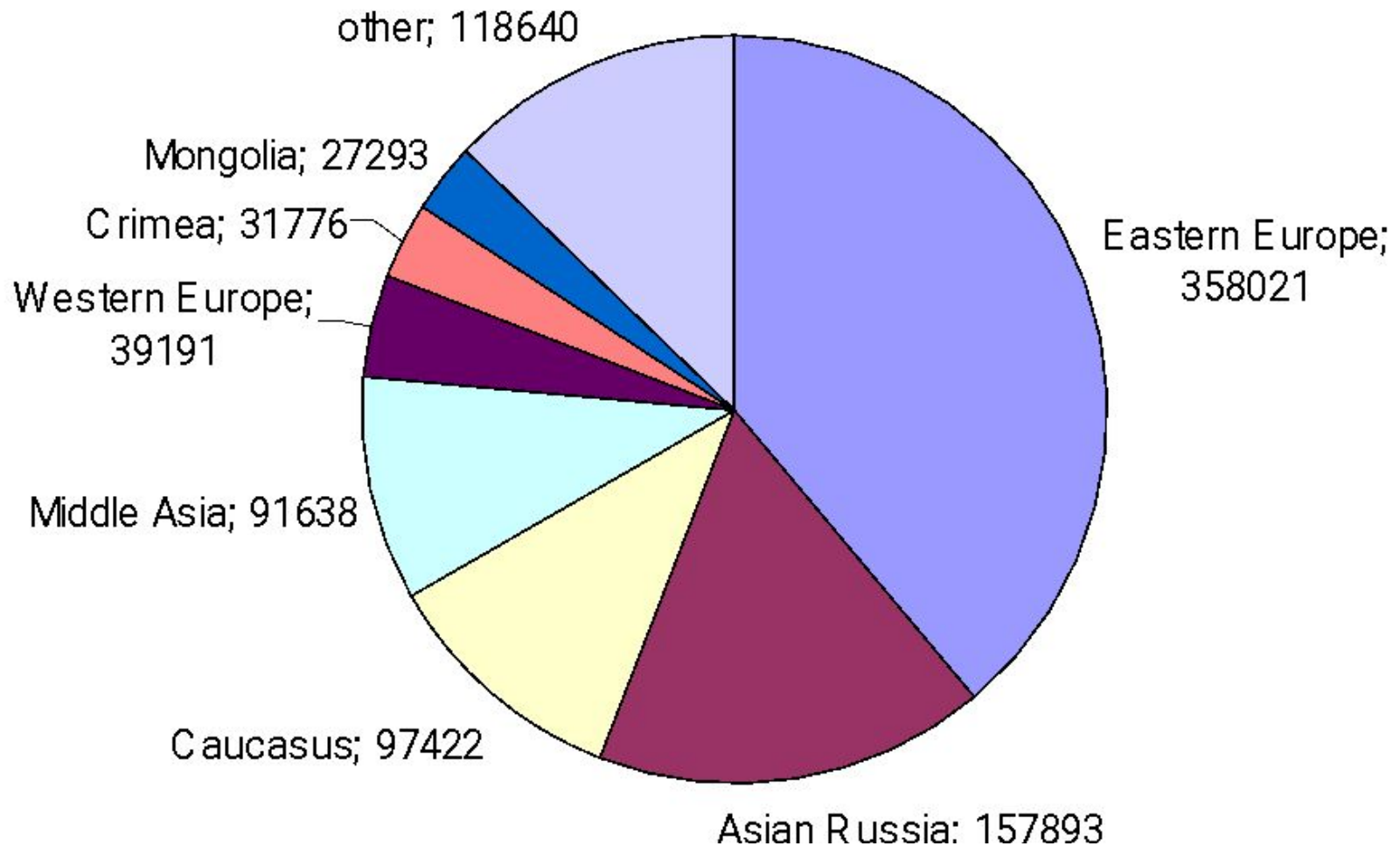
Plant Taxonomy in the Moscow University

60 new species of vascular plants were described by the Moscow University staff members in 2012-2016:

- **Apiaceae**: 15 species (M. Pimenov, E. Kljuykov, D. Lyskov et al.)
- **Amaranthaceae s. l.**: 11 species (A. Sukhorukov)
- **Asparagaceae**: 10 species (N. Vislobokov et al.)
- **Amaryllidaceae s. l.**: 9 species (A. Seregin)
- **Apocynaceae**: 2 species (Y. Alexeev)
- **Cucurbitaceae**: 2 species (M. Nuraliev)
- **Polygonaceae**: 2 species (O. Yurtseva)
- **Thismiaceae**: 2 species (M. Nuraliev)
- **Molluginaceae**: 2 species (A. Sukhorukov)
- **Asteraceae, Centrolepidaceae, Lophiocarpaceae, Orchidaceae, Triuridaceae**: 1 species

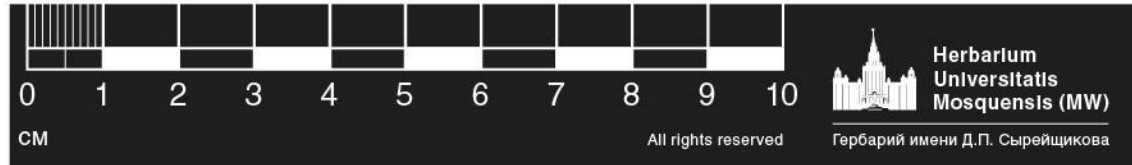


Geographical Scope: Vascular Plants



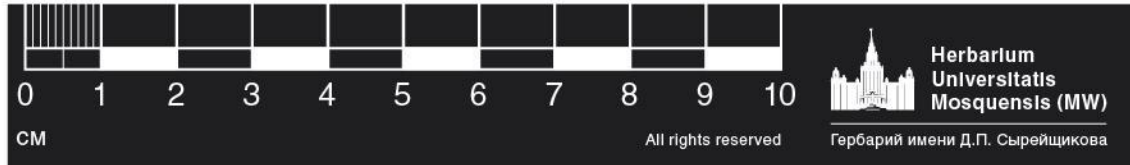
Moscow University Project

- Moscow University have received 750,000,000 RUR (ca. 10,910,000 Euro) for foundation of the ***National Depository Bank of Live Systems*** from Russian Science Foundation.
- 4-year project (2015-2018).
- Five branches: 1) Plants; 2) Animals; 3) Fungi & Microbes; 4) Human Material; 5) Bioinformatics.



Moscow University Project: Plants

- 125,000,000 RUR (ca. 1,820,000 Euro) for plant studies (collections, new labs, expeditions, extra salary, etc.) in 2015-2018.
- The largest grant in the history of Russian botany.
- 24% for the Moscow University Herbarium (MW) for digitisation, databasing and management.



Digitisation as a World Trend



Leiden (Netherlands)



Paris (France)



Herbarium @ NYBG

New York (USA)



All rights reserved

Equipment or Services?



or



0 1 2 3 4 5 6 7 8 9 10
CM

Herbarium Budget in 2015-2016

Contract with a commercial partner:

- **11,850,000 RUR**
(ca. 172,360 Euro) for
digitisation of 786K
specimens (or
15.08 RUR per
specimen)



Herbarium
Universitatis
Mosquensis (MW)

Гербарий имени Д.П. Сырейщикова

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Extra Funding in 2015-2016

Development of the web portal:

- **2,500,000 RUR** (ca. 36,400 Euro)

Additional herbarium facilities (cupboards):

- **4,800,000 RUR** (ca. 69,800 Euro) for the additional space to preserve ca. 192K new specimens

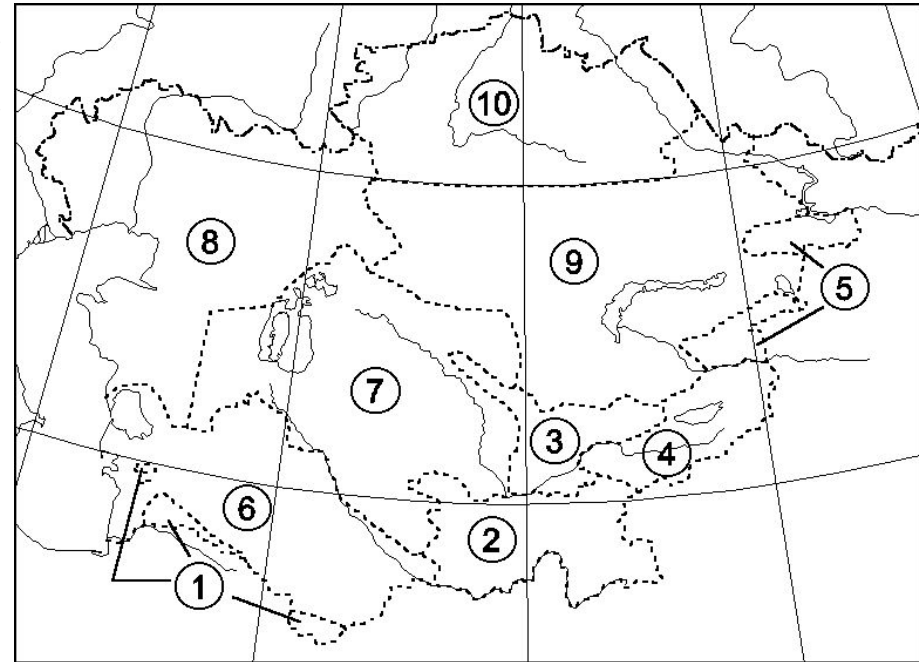
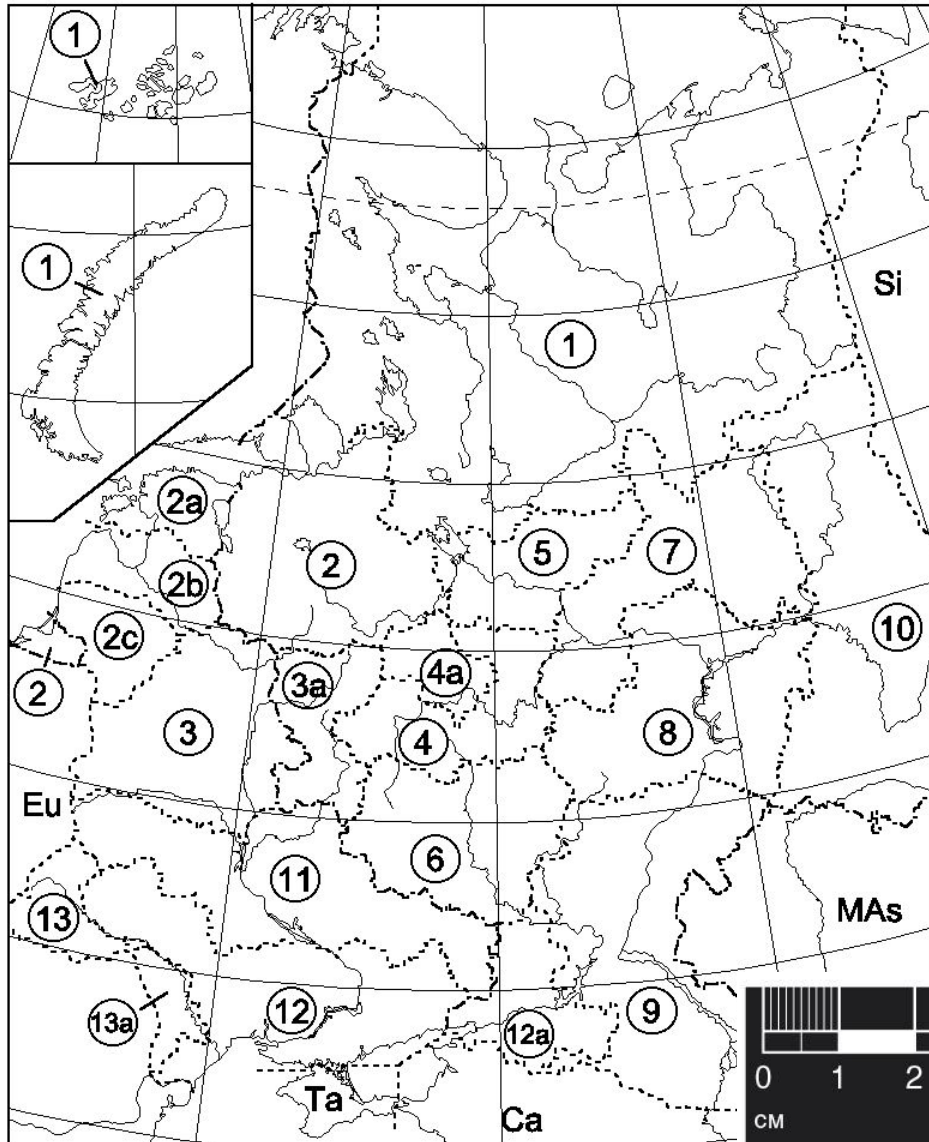


Digitisation: Imaging as the First Step

- Only imaging at 300 dpi TIFF (JPG copy)
- Basic metadata from folders (ID, species name, area code)
- No label data
- Free full online access

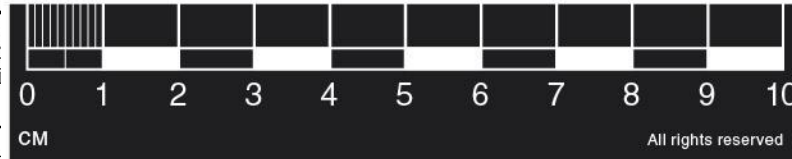


Area Codes from Folders



↑ Area codes of Middle Asia

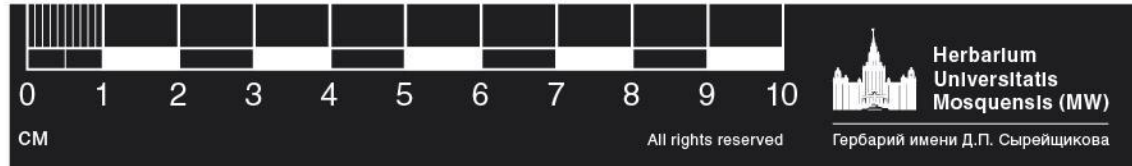
← Area codes of Eastern Europe



Metadata Production

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Fam	Index	x	Genus	x	Species	Authors	ssp/vz	Infraspecific epit	Synonym	Msp	M1	M2	M3	M4	M5	M6	M7	M8	
26856	26903	238a	6351	Limonium	bicolor	(Bunge) Kuntze														
26857	26904	238a	6351	Limonium	bungei	(Claus) Gamajun.														
26858	26905	238a	6351	Limonium	californicum	(Boiss.) Heller														
26859	26906	238a	6351	Limonium	cancellatum	(Bernh. ex Bertol.) Kuntze														
26860	26907	238a	6351	Limonium	carnosum	(Boiss.) Kuntze	Statice carnos	Boiss.												
26861	26908	238a	6351	Limonium	caspium	(Willd.) Gams													4	15
26862	26909	238a	6351	Limonium	chinensis	Girard.														
26863	26910	238a	6351	Limonium	chrysocomum	(Kar. et Kir.) Kuntze														
26864	26911	238a	6351	Limonium	congestum	(Ledeb.) Kuntze														
26865	26912	238a	6351	Limonium	coralloides	(Tausch) Lincz.														
26866	26913	238a	6351	Limonium	cordatum	(L.) Mill.														
26867	26914	238a	6351	Limonium	cretaceum	Tscherkasova														3
26868	26915	238a	6351	Limonium	densiflorum	(Guss.) Kuntze														
26869	26916	238a	6351	Limonium	dichroanthum	(Rupr.) Ikonn.-Gal.									11	1			1	
26870	26917	238a	6351	Limonium	diffusum	(Pourr.) Kuntze														
26871	26918	238a	6351	Limonium	donetzicum	Klokov														
26872	26919	238a	6351	Limonium	echioides	(L.) Mill.	subsp exaristatum	(M.L. exaristatum (Murb.) P. Fournier												
26873	26920	238a	6351	Limonium	echioides	(L.) Mill.														
26874	26921	238a	6351	Limonium	erythrorhizum	Ikonn.-Gal. ex Lincz.														
26875	26922	238a	6351	Limonium	feralaceum	(L.) Kuntze														
26876	26923	238a	6351	Limonium	ferganense	Ikonn.-Gal.								3	4					
26877	26924	238a	6351	Limonium	fischeri	(Trautv.) Lincz.	L. nudum ...													
26878	26925	238a	6351	Limonium	flexuosum	(L.) Kuntze														
26879	26926	238a	6351	Limonium	gmelinii	(Willd.) Kuntze									2		8		5	16
26880	26927	238a	6351	Limonium	guthriei	Lincz.														

Table showing presence of 11 specimens of *Limonium dichroanthum* (Rupr.) Ikonn.-Gal. from M3 geographical area (Western Tian Shan).



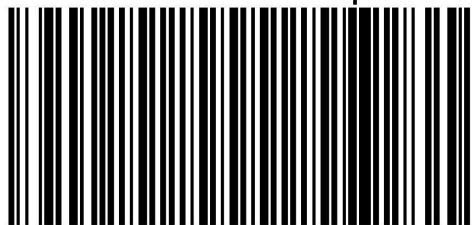
Barcodes as an Accurate Counter

Eastern European collections:

- 338,940 specimens before barcoding
- 352,720 specimens after barcoding
- 13,780 increase (+4.07%)



Herbarium Univ. Mosquensis



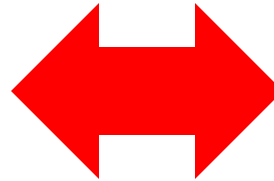
MW 0 000 001



Herbarium
Universitatis
Mosquensis (MW)

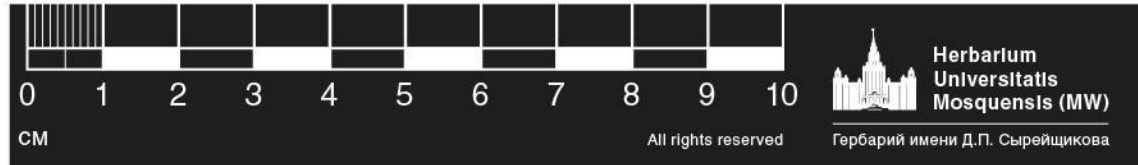
Гербарий имени Д.П. Сырейщикова

Metadata Example

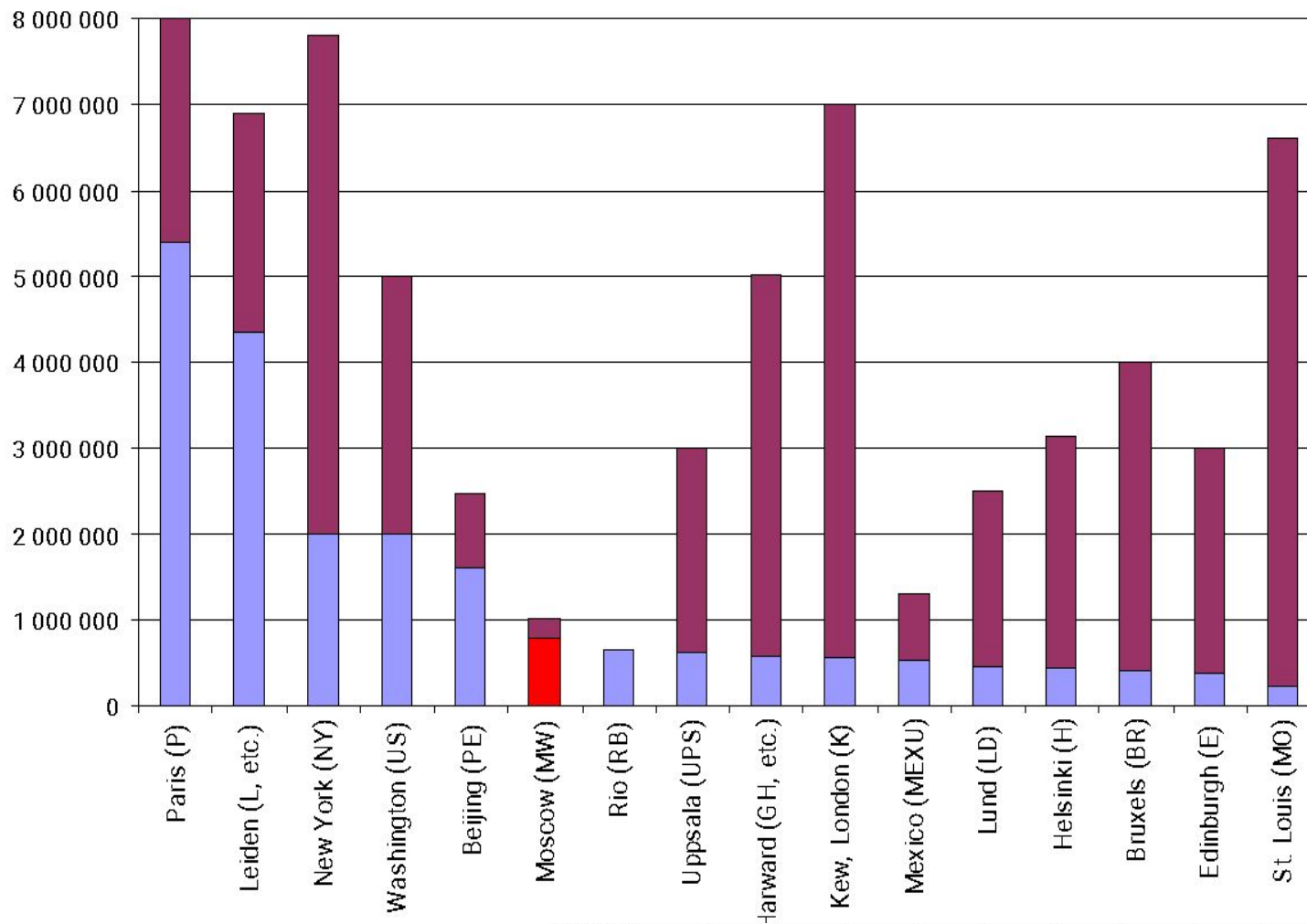


Current Digitisation Rate

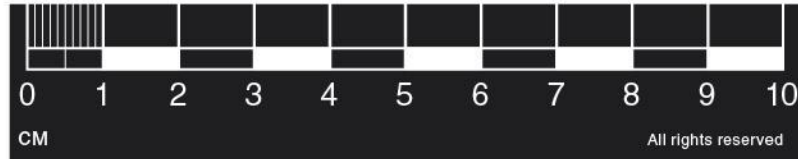
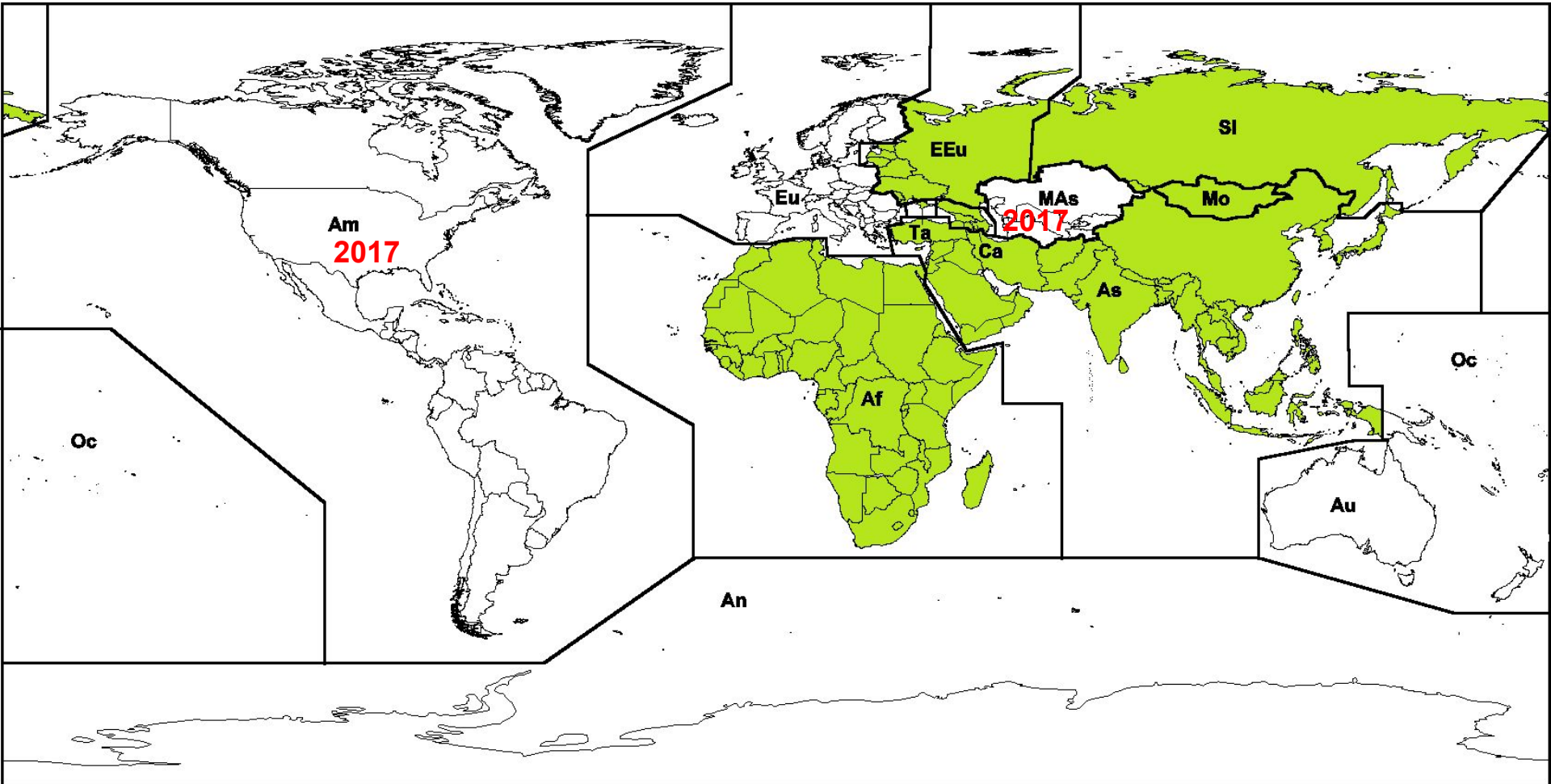
- **785,844** specimens (77.7%) are scanned and available online including:
 - 708,209 specimens of vascular plants (300 dpi)
 - 4,632 type specimens of vascular plants (600 dpi)
 - 72,997 labels of bryophytes



Digital Collections Ranking



Current Digitisation Coverage



Digitisation: Quick Geotagging

- Country names were used as geotags
- 756K specimens were geotagged using existing country names from folders
- 30K specimens were geotagged manually in 2017



Asian Resources: 301K Specimens

- Russia 157,200 specimens
- Middle Asian countries 94,100
- Mongolia 27,300
- PR of China 3,940
- Vietnam 3,880
- Turkey 2,440
- India 1,680
- Japan 1,620



Online Access

- <http://plant.depo.msu.ru/> (public access)
- Russian / English versions
- 786K specimens at 300 dpi (JPG)
- Automatic linking of the collection names with *Catalogue of Life* taxonomy
- No label data at the moment
- No geographical coordinates



https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка

eLIBRARY.RU - Сергеев Ал... ResearchGate XIX International Botanical Cong Depository of Live Systems

https://plant.depo.msu.ru 80% Поиск

DEПОЗИТАРИЙ ЖИВЫХ СИСТЕМ «НОЕВ КОВЧЕГ»

Bacteria and fungi **Plants** Animals

RU EN Help

About Collections Contacts Links

Database contains:
Specimen: 781884 Images: 781884 Species: 27049

National Depository Bank of Live Systems

The project of the Moscow State University "Noah's Ark" is dedicated to the creation of multi-functional network storage of biological material.

It is planned to work with the material of all the possible types from single biological molecules to separate organisms.

Depository bank's main purpose is to preserve the biodiversity of our planet and create new ways of biological material use.

Search

Supraspecific taxon

Genus / Species

Full search

Taxonomic browser


Collection

Acronym

Keyword


Person

Image of the day



Malus sylvestris

Species of the week



Calamagrostis

Windows taskbar: 9:16 ENG

Home page

https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка

eLIBRARY.RU - Сергеев Ал... ResearchGate XIX International Botanical Cong Depository of Live Systems Depository: Search

https://plant.depo.msu.ru/module/itemsearchpublic Поиск

"НОЕВ КОВЧЕГ" Depository of Live Systems Search EN (Log out) support: +7 (495) 939-4731 support+depo@mitotech.ru

Search Gallery

Barcode Name in collection Genus Specific epithet

Barcode contains Class = Family contains Genus = Specific epithet contains Species authority contains Infraspecific epithet contains Authority of infraspecific taxon contains Herbarium geographical unit = Herbarium geographical area = Area code = Country = Digitisation stage =

Search type specimens only

select all names accepted in the collection names accepted in the "Catalogue of Life" synonyms

Sources of taxonomy

SAVE OK Apply Show all Cancel

Full search form

https://plant.depo.msu.ru/

The screenshot shows a web browser window with the URL <https://plant.depo.msu.ru/module/itemsearchpublic>. The page title is "Depository of Live Systems" and it features a search bar and a navigation menu. A filter panel is open, showing a list of fields and their corresponding filter operators. The "Herbarium geographical area" field is selected, and a dropdown menu is open, displaying a list of geographical regions. The list includes "Caucasus (no precise locality)", "Krasnodar Krai & Adygea", "Stavropol Krai, Karachay-Cherkessia & Kabardino-Balkaria", "North Ossetia, Ingushetia & Chechnya", "Dagestan", "Black Sea Shore (from Novorossiysk to Adler)", "Georgia", "Abkhazia", "South Ossetia", and "Armenia". The interface also includes a "Filter" tab, "Saved filters (0)", and buttons for "Apply", "Show all", "Cancel", "Clear", "Choose", and "Cancel".

Field	Operator
Barcode	contains
Class	=
Family	contains
Genus	=
Specific epithet	contains
Species authority	contains
Infraspecific epithet	contains
Authority	contains
Herbarium	contains
Herbarium geographical area	contains
Area code	contains
Country	contains
Digitisation	contains
Search	contains
Sources	contains

- Herbarium geographical area
- Caucasus (no precise locality)
- Krasnodar Krai & Adygea
- Stavropol Krai, Karachay-Cherkessia & Kabardino-Balkaria
- North Ossetia, Ingushetia & Chechnya
- Dagestan
- Black Sea Shore (from Novorossiysk to Adler)
- Georgia
- Abkhazia
- South Ossetia
- Armenia

Geographical areas as the most precise geotags

https://plant.depo.msu.ru/

The screenshot displays the 'Depository of Live Systems' website interface. At the top, there is a navigation bar with menu items: 'Файл', 'Правка', 'Вид', 'Журнал', 'Закладки', 'Инструменты', and 'Справка'. Below this is a browser window showing the URL 'https://plant.depo.msu.ru/module/itemsearchpublic'. The website header includes the logo of 'НОЕВ КОВЧЕГ' and the text 'Depository of Live Systems' with a search icon. On the right, there is a language selector 'EN - (Log out)' and a support contact: 'support: +7 (495) 939-4731 support+depo@mitotech.ru'. The main content area features a search bar and a 'Filter' dialog box. The dialog box has two tabs: 'Filter' and 'Saved filters (0)'. It lists various taxonomic fields with corresponding filter operators and values. The 'Genus' field is selected, and a dropdown menu is open, showing a list of species names including 'Elytrigia aegilopoides', 'Elytrigia alalaica', 'Elytrigia alalaica subsp. pamirica', 'Elytrigia alatavica', 'Elytrigia albomarginata', 'Elytrigia amgunensis', 'Elytrigia arenosa', 'Elytrigia argentea', 'Elytrigia amena', 'Elytrigia attenuatiglumis', 'Elytrigia aucheri', 'Elytrigia batalinii', 'Elytrigia batalinii subsp. alalaica', 'Elytrigia batalinii var. pamirica', 'Elytrigia caespitosa', 'Elytrigia caespitosa subsp. nodosa', 'Elytrigia campestris subsp. maritima', 'Elytrigia canina', 'Elytrigia cilolata', and 'Elytrigia cretacea'. At the bottom of the dialog box, there are buttons for 'Apply', 'Show all', and 'Cancel'. The website footer includes a Windows taskbar with icons for various applications and a system tray showing the time as 8:12 and the language as ENG.

“Live search” feature in taxonomic fields

https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка

eLIBRARY.RU - Серегин Ал... ResearchGate XIX International Botanical Cong Depository of Live Systems Depository: Search

https://plant.depo.msu.ru/module/itemsearchpublic 110% Поиск

"НОЕВ КОВЧЕГ" **Depository of Live Systems** Search EN (Log out) support: +7 (495) 939-4731 support+depo@mitotech.ru

Search Gallery Herbarium geographical unit = Caucasus; Herbarium geographical area = Black Sea Shore (from Novoross... Rows 1-50 7208

Barcode	Name in collection		Taxonomy (Catalogue of Life)			Geography		
	Genus	Specific epithet	Family	Taxon	Taxonomy Sy	Herbarium geographic unit	Herbarium geographical area	Area code
MW0706326	Solenanthus	biebersteinii	Boraginaceae	Cynoglossum dubium (Fisch. & C.A.Mey.) Greuter & Stier	Present 4	Caucasus	Black Sea Shore (from	K3
MW0706327	Solenanthus	biebersteinii	Boraginaceae	Cynoglossum dubium (Fisch. & C.A.Mey.) Greuter & Stier	Present 4	Caucasus	Black Sea Shore (from	K3
MW0706328	Solenanthus	biebersteinii	Boraginaceae	Cynoglossum dubium (Fisch. & C.A.Mey.) Greuter & Stier	Present 4	Caucasus	Black Sea Shore (from	K3
MW0706329	Solenanthus	biebersteinii	Boraginaceae	Cynoglossum dubium (Fisch. & C.A.Mey.) Greuter & Stier	Present 4	Caucasus	Black Sea Shore (from	K3
MW0706330	Solenanthus	biebersteinii	Boraginaceae	Cynoglossum dubium (Fisch. & C.A.Mey.) Greuter & Stier	Present 4	Caucasus	Black Sea Shore (from	K3
MW0706393	Lappula	barbata	Boraginaceae	Lappula barbata	Present 0	Caucasus	Black Sea Shore (from	K3
MW0706456	Lappula	squarrosa	Boraginaceae	Lappula squarrosa (Retz.) Dumort.	Present 17	Caucasus	Black Sea Shore (from	K3
MW0706457	Lappula	squarrosa	Boraginaceae	Lappula squarrosa (Retz.) Dumort.	Present 17	Caucasus	Black Sea Shore (from	K3
MW0706458	Lappula	squarrosa	Boraginaceae	Lappula squarrosa (Retz.) Dumort.	Present 17	Caucasus	Black Sea Shore (from	K3
MW0706667	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706668	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706669	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706670	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706671	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706672	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706673	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706674	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3
MW0706675	Symphytum	grandiflorum	Boraginaceae	Symphytum grandiflorum DC.	Present 6	Caucasus	Black Sea Shore (from	K3

Results as a table

https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка


eLIBRARY.RU - Сергеев Ал... ResearchGate Новости Depository: Specimen Depository: Search

https://plant.depo.msu.ru/module/itempublic?openparams=[open-id%3D79526891] 90% Поиск

"НОЕВ КОВЧЕГ" **Depository of Live Systems** Specimen EN - (Log out) support: +7 (495) 939-4731 support+depo@mitotech.ru

Solananthus biebersteinii [MW0706326] [How to cite](#)

General Depo... Biblio...



[300dpi](#)

Barcode MW0706326

Name accepted in collection

Genus Solananthus

Specific epithet biebersteinii

Authority of species

Intraspecific rank

Intraspecific epithet

Authority of infraspecific name

Supraspecific taxa

- Eukaryota
- Plantae
- Tracheophyta
- Magnoliopsida
- Boraginales
- Boraginaceae

Taxonomy (Catalogue of Life)

Accepted name (Catalogue of Life) [Cynoglossum dubium \(Fisch. & C.A.Mey.\) Greuter & Stier](#)

Synonyms [Cynoglossum biebersteinii \(DC.\) W. Greuter & Burdet](#)
[Cynoglossum stamineum Bieb.](#)
[Solananthus biebersteinii DC.](#)
[Solananthus dubius Fisch. & Mey. ex Hohen.](#)

Herbarium geographical unit Caucasus

Herbarium geographical area Black Sea Shore (from Novorossiysk to Adler) K3

Creation date 03.03.2017

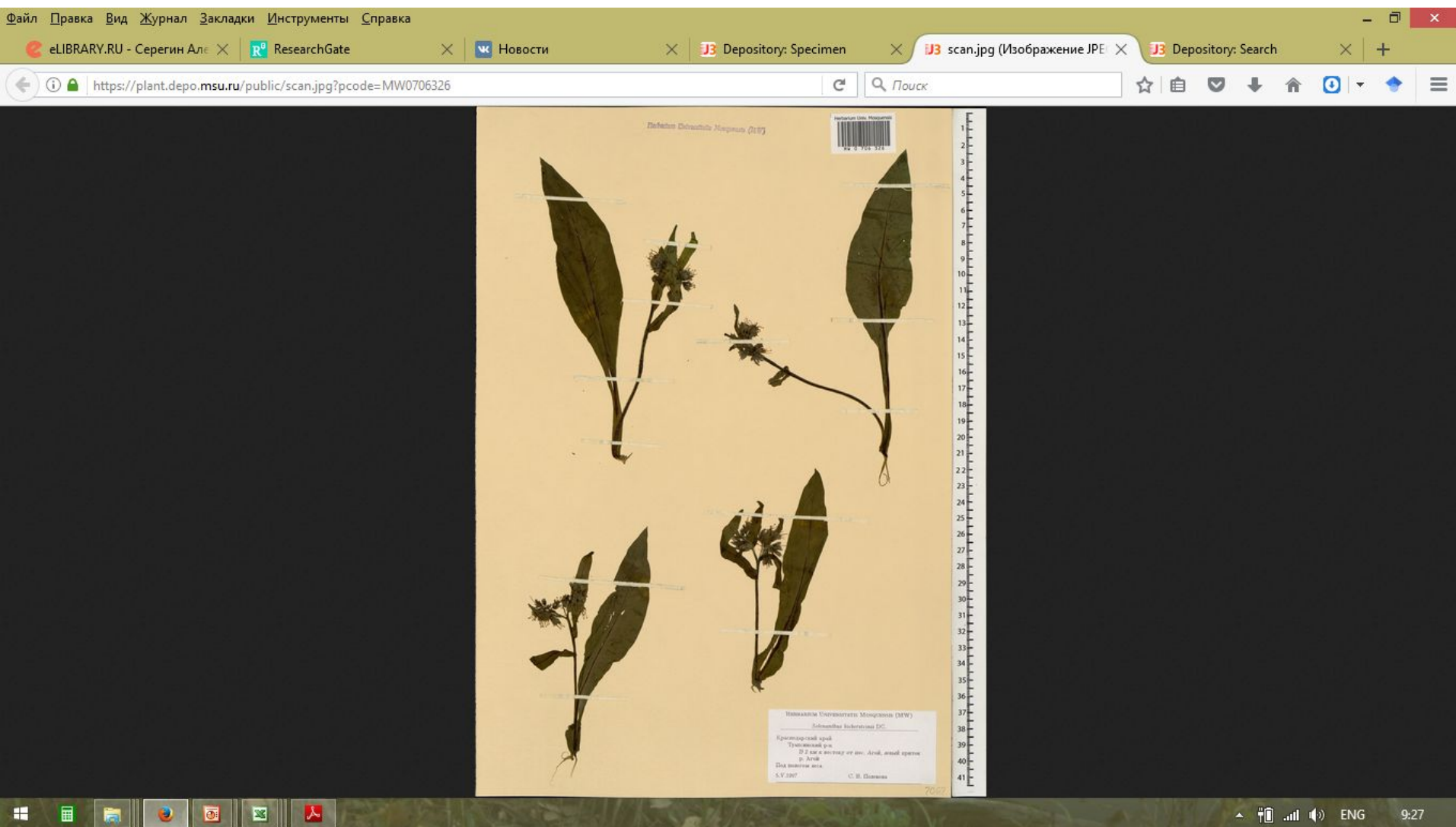
Digitisation stage 2016 (stage 2)

Get specimen permalink [Get link](#) Visit counts 5

Get scan permalink [Get link](#) Created/Verified by Сергеев А. П.

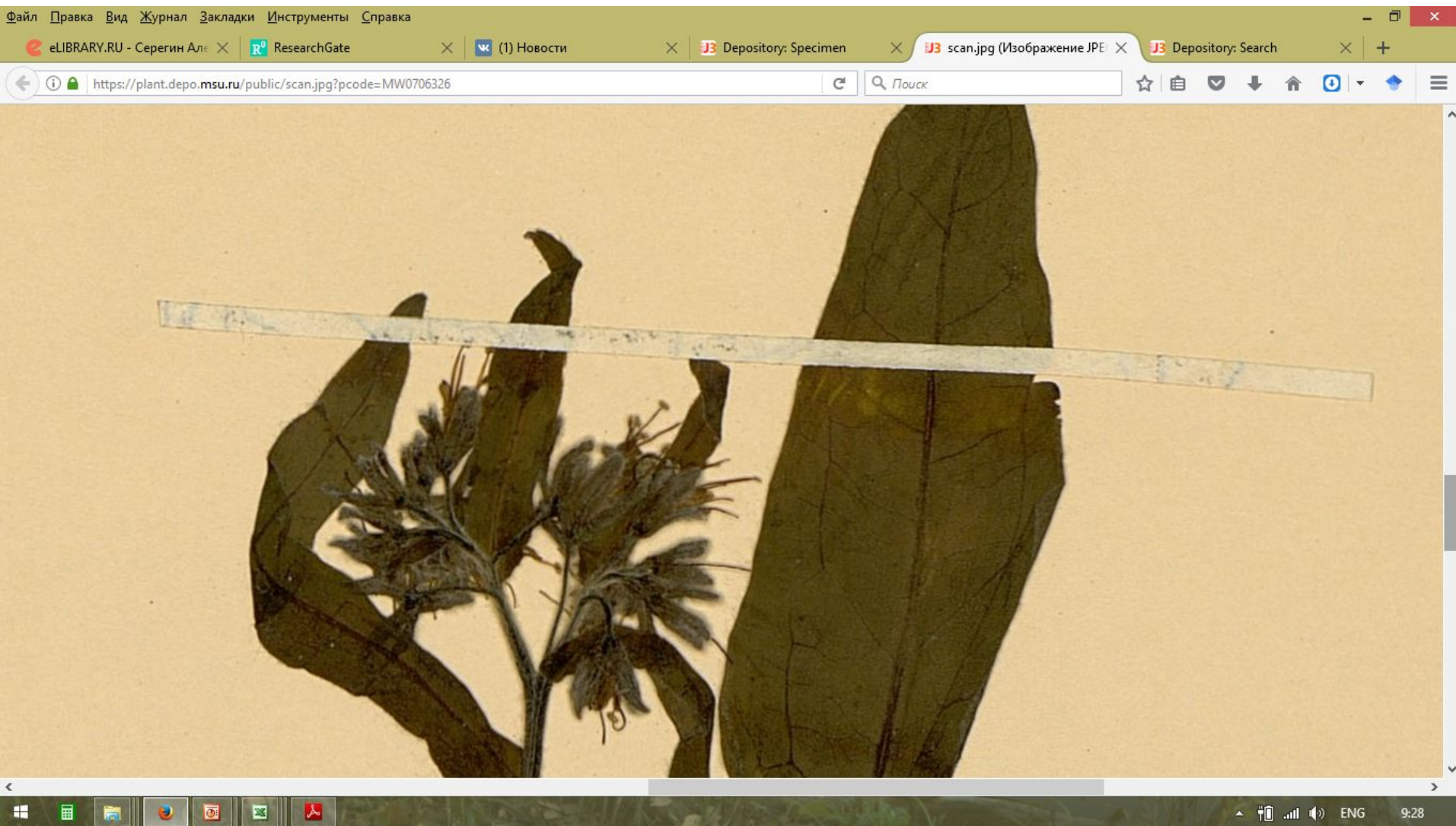
Specimen record

<https://plant.depo.msu.ru/>



JPG files are directly available at 300 dpi

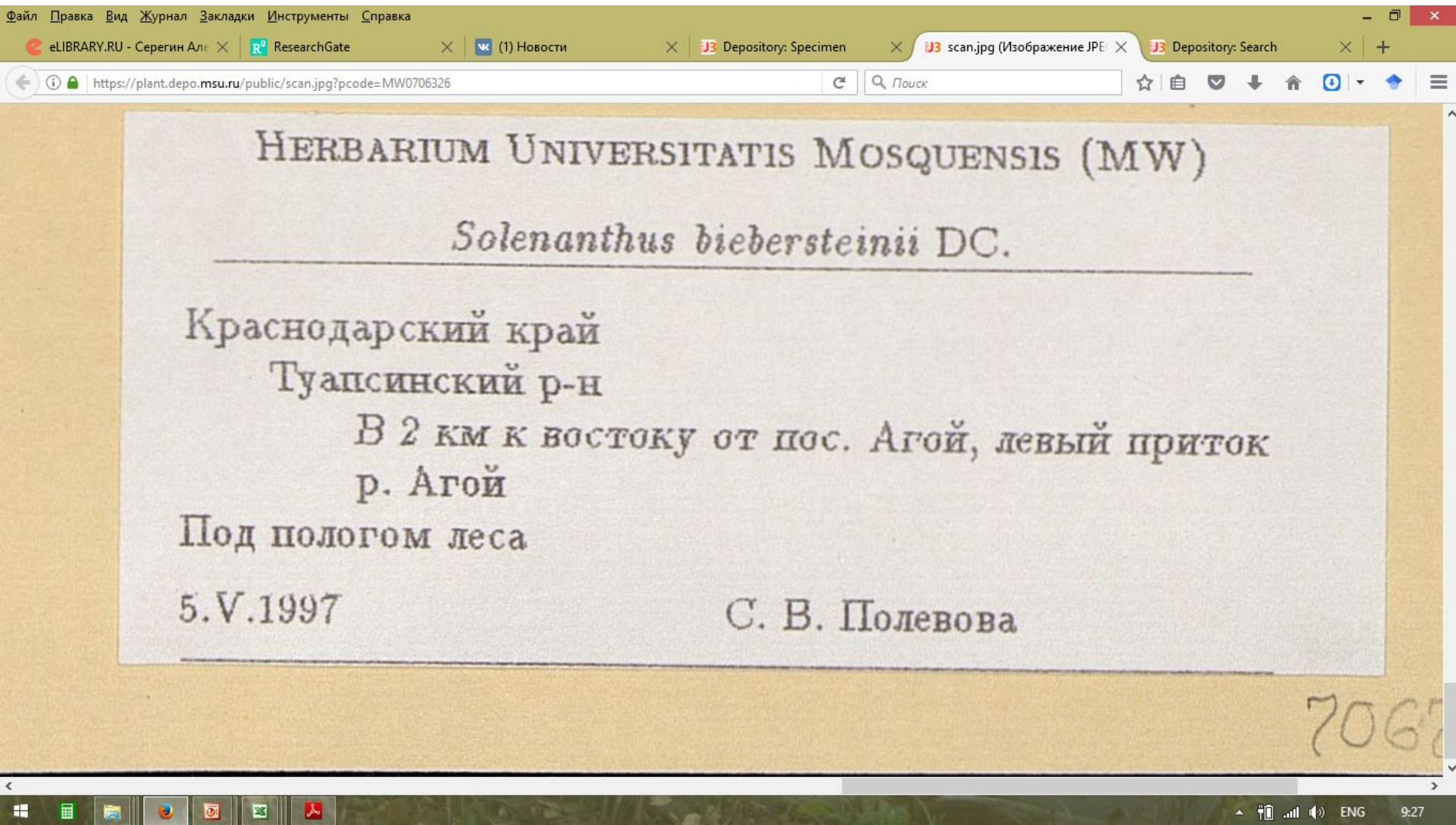
<https://plant.depo.msu.ru/>



JPG files are directly available at 300 dpi



<https://plant.depo.msu.ru/>



JPG files are directly available at 300 dpi: label at 100%



https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка

Depository of Live Systems Depository: Search Новая вкладка

https://plant.depo.msu.ru/module/itemsearchpublic

90%

Поиск

EN - (Log out)

Support: +7 (495) 939-4731 support+depo@mitotech.ru

Rows 1-50 4640

Area code Country

Area code	Country
S2	Russia
S2	Russia
S6	Russia
S2	Russia
S2	Russia
S2	Russia
S4	Russia
S2	Russia
S2	Russia
S4	Russia
S2	Russia
S4	Russia
S6	Russia
S4	Russia
S3	Russia
S4	Russia
S4	Russia
S4	Russia
S4	Russia
S0	Russia
S3	Russia
S4	Russia
S2	Russia
S2	Russia
S2	Russia

Search Gallery Genus = Allium

Barcode	Name	collection
MW0045398	Allium	splend
MW0045391	Allium	angulo
MW0045392	Allium	senes
MW0045393	Allium	amphi
MW0045394	Allium	strictu
MW0045395	Allium	tythoc
MW0045399	Allium	schoe
MW0045396	Allium	strictu
MW0045397	Allium	amphi
MW0045380	Allium	splend
MW0045390	Allium	senes
MW0045378	Allium	prokha
MW0045382	Allium	splend
MW0045379	Allium	splend
MW0045381	Allium	splend
MW0045383	Allium	splend
MW0045384	Allium	splend
MW0045385	Allium	splend
MW0045386	Allium	splend
MW0045387	Allium	glauca
MW0045388	Allium	prostra
MW0045389	Allium	
MW0045374	Allium	
MW0045369	Allium	

MW0045373
Amaryllidaceae
Allium altaicum Pall.
Siberia
Altai & Sayany Mountains
Open in new window

Present 4 Siberia Altai & Sayany Mountains

Gallery feature for quick scrolling of JPG files as slideshow

<https://plant.depo.msu.ru/>



MW0045373
Amaryllidaceae
Allium altaicum Pall.
Siberia
Altai & Sayany Mountains
[Open in new window](#)



Gallery feature for quick scrolling of JPG files as slideshow

https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка

DEpository of Live Systems × DEpository: Search × Соединение... × capital letters in titles - Поиск × мгу новые виды растений × +







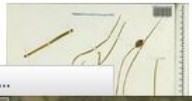


https://plant.depo.msu.ru/publ/open/search?searchBy=any&queryString=Allium 80% Поиск

Депозитарий живых систем Division All divisions - Collections RU EN

All divisions / Collections / Search

Search: [genus species geography synonyms]

« 1 2 3 4 5 » Total items: 4545 Total pages: 78

	Barcode MW0045398 Name accepted in collection Allium splendens Accepted name Allium splendens Willd. ex Schult. & Schult. f. Geography Сибирь, Altai & Sayany Mountains (Russia)		Barcode MW0045391 Name accepted in collection Allium angulosum Accepted name Allium angulosum L. Geography Сибирь, Altai & Sayany Mountains (Russia)		Barcode MW0045392 Name accepted in collection Allium senescens Accepted name Allium senescens L. Geography Сибирь, Russian Far East (Russia)
	Barcode MW0045393 Name accepted in collection Allium amphibolum Accepted name Allium amphibolum Ledeb. Geography Сибирь, Altai & Sayany Mountains (Russia)		Barcode MW0045394 Name accepted in collection Allium strictum Accepted name Allium strictum Schrad. Geography Сибирь, Altai & Sayany Mountains (Russia)		Barcode MW0045395 Name accepted in collection Allium tythocephalum Accepted name Allium tythocephalum Schult. & Schult. f. Geography Сибирь, Altai & Sayany Mountains (Russia)
	Barcode MW0045399 Name accepted in collection		Barcode MW0045396 Name accepted in collection		Barcode MW0045397 Name accepted in collection

Ожидание ответа от plant.depo.msu.ru...

Windows taskbar: ENG 9:02

Alternative results page used for Google indexing

https://plant.depo.msu.ru/

Файл Правка Вид Журнал Закладки Инструменты Справка


Depository of Live Systems Depository: Search MW0045374, Allium altaicum capital letters in titles - Поиск мгу новые виды растений

https://plant.depo.msu.ru/publ/open/item?id=2205911 Поиск

Депозитарий живых систем Division Plants Collections RU EN

Plants / Collections / Moscow University Herbarium

300dpi



Herbarium Universitatis Mosquensis (MW)

Herbarium Univ. Mosquensis
MW 0 045 374

Barcode
MW0045374
Name accepted in collection
Allium altaicum
Accepted name
Allium altaicum Pall.
Family
Amaryllidaceae
Geography
Сибирь, Altai & Sayany Mountains (Russia)

[Full card](#)

Alternative specimen record used for *Google* indexing



Digitisation: Label Capturing as the Second Step

- 45,000 labels will be databased in 2017:
Caucasus and the Crimea
- Contract with highly trained commercial partner
- Single-label specimens only
- Original label language (no translation)
- 24 RUR (0.4 USD) per label



Digitisation: Georeferencing as the Third Step

- 3,000 specimens were georeferenced in 2017
- A single highly-trained freelancer
- N, E coordinates
- 10 RUR (0.18 USD) per specimen
- Gazetteer with standard localities as a result

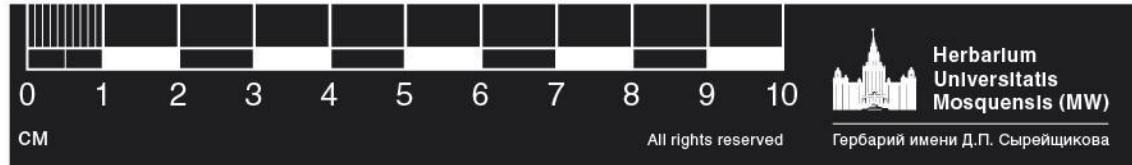


PR and Promotion

- Four appearances on federal TV



- Dozens of communications in news on web portals
- Digital Herbarium blog on vk.com
- Russian vernacular names (14K) used for indexing



MW Herbarium by the End of 2018

- 1,050,000 physical specimens (60th in the world)
- integration of few lesser collections (negotiations are in progress)
- 930,000 specimens will be imaged (89%)
- 250,000 specimens will be databased (24%)
- 10,000 specimens will be georeferenced (1%)



Thank you for being
with me today!

Dr Sci Alexey P. Seregin
botanik.seregin@gmail.com



Herbarium
Universitatis
Mosquensis (MW)

Гербарий имени Д.П. Сырейщикова