



FloraGREIF

„Greifswalder Digitales Informationssystem zur Flora der Mongolei“

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FloraGREIF database

- **Floristic data on the flora of Mongolia on two data level
TAXON DATA & RECORD DATA**

TAXON DATA

FloraGreif

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search by family search by genus

please choose a family or a genus (Please note: all names according to Gubanov 1996)

Currently listed: 100 families with 665 genera and 8000 species

search by family search by genus search by species

[Adoxa](#) [enter new taxon data »](#)

[Alism](#) **Currently listed: Apiaceae (34 genus 66 species) acc. to Gubanov 1996**

Alliac	+	int. comments	tax. comments	Genus	Species	Author	Subspecies	Auth. Subsp.	Synonym (Grubov 1982)		
Amar				Aegopodium	alpestre	Ledeb.				edit	delete
Apiac				Angelica	czernaevia	(Fisch. et Mey.) Kitag.				edit	delete
Apocy				Angelica	dahurica	(Fisch. ex Hoffm.) Benth. et Hook. fil. ex Franch.				edit	delete
Arace				Angelica	decurrens	(Ledeb.) B. Fedtsch.			(Ldb.) B. Fedtsch.	edit	delete
Asclep				Angelica	sylvestris	L.				edit	delete
Aspar				Angelica	tenuifolia	(Pall. ex Spreng.) Pimenov				edit	delete

TAXON DATA

family	genus	species	author
Polygonaceae	Atraphaxis	spinosa	L.
subfamily	tribe	subspecies	author subspecies

+ ☐ new in Gubanov (1996)

distribution (1, ..., 16)

3,5,6,7,9,10,11,12,13,14,15,16

status ---> firstly described from geogr. region

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distribution khangay

☐ I ☐ II ☐ III ☐ IV ☐ V ☒ VI

habitat accord. to Grubov (2001)

Sandy steppes, slopes and bottom of dry riverbeds, pebbles, debris slopes of mountains and hills.

growth form acc. to Flora of China (1994-) and Grubov (2001)

Shrubs

status acc. to Red Data Book (1997)

rare

confuse with

Atraphaxis compacta Ledeb.

comments

Leaves of A. compacta are fascicled.

Polymorph species in terms of growth form, color (tinct), leave size and form, leave color, size of tepals during fructification state. By shorth growth, A. spinosa is similarly to A. compacta Ledeb. (Rechinger & Schiman-Czeika, 1968: 32)

RECORD DATA

search by family search by genus

Listing all records for family: **Ephedraceae**

[enter new record: Ephedraceae](#)

remarks	record	leg	colno or date			
	Ephedra glauca	E. Jäger	05.07.2004	edit	rename	delete
	Ephedra intermedia	E. Jäger	E233	edit	rename	delete
	Ephedra intermedia	E. Jäger	10.07.2004	edit	rename	delete
	Ephedra intermedia	E. Jäger	10.07.2004	edit	rename	delete
	Ephedra przewalskii	E. Jäger	E233	edit	rename	delete
	Ephedra przewalskii	E. Jäger	E331 bei Aufn. 180	edit	rename	delete
	Ephedra sinica	W. Hilbig	06.07.1985	edit	rename	delete

RECORD DATA

locality

select **country**, **province** (= aimak), **district** (= sum): (province and district acc. to FloraGREIF project map: XXX)

Mongolia ▾ Khovd ▾ Myangad ▾

Choose **region** according to province (click on the region in the list to transfer it to the textfield above)

▾ load current list

geogr. region acc. to Akademiya Nauk SSSR & Akademiya Nauk MNR (1990)

Great Lake Basin

geogr. data acc. to herbar label

additional locality description

on the eastern road next to lake Khar-Us-Nuur from Bayankhoshuu (Myangad sum) to Seer (Dörgön sum) near the big owoo monument. Around 22 km distant from sum centre Bayankhoshuu and 2-3 km to lake Khar-Us-Nuur.

next important location

name dir dist

coordinates

type Geoqr. Coord. lon (E) 92,166724 lat (N) 48,311039 ref WGS 84 unit

GPS 571 prec

altitude

approx. ☐ 1176 (m asl) alt. (lower) alt. (upper) exp inc

habitat

habitat

sandy northern shrub desert steppe accord. to Zemmrich (2005)



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- Floristic data on the flora of Mongolia
- **Geographical data of Mongolia & of plant species**
- Images
- Literature data base

Geographical Data

FloraGreif

Help Profile **Data Input** Label Printing Literature Homepage

Data Input Taxon Data Record Data Internal Record Pool **Locality Listing** Leg/Det Listing Index Herb. Listing Import – Export Listings

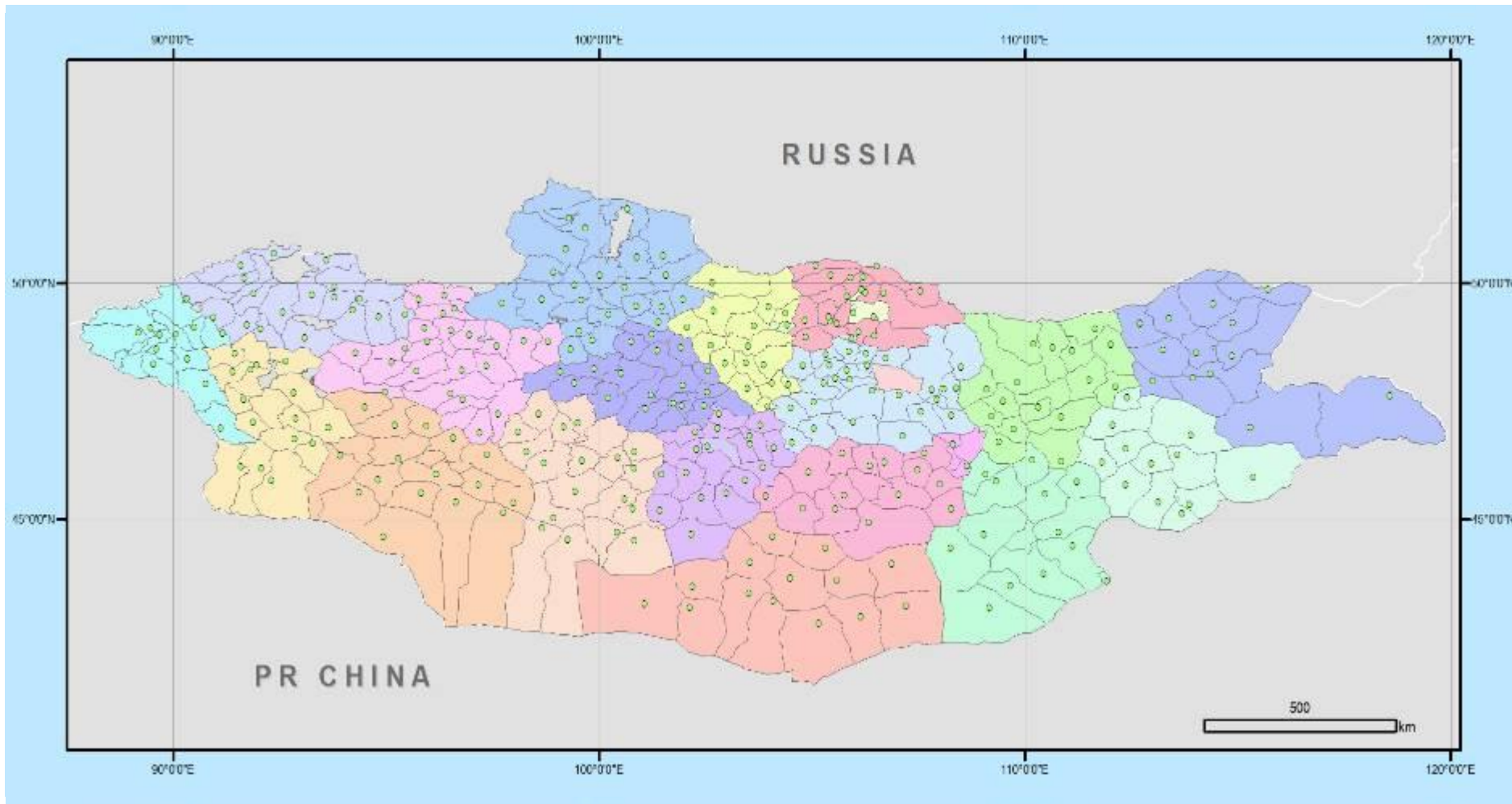
Mongolia Bayan-Ölgiy

[Enter new region...](#)

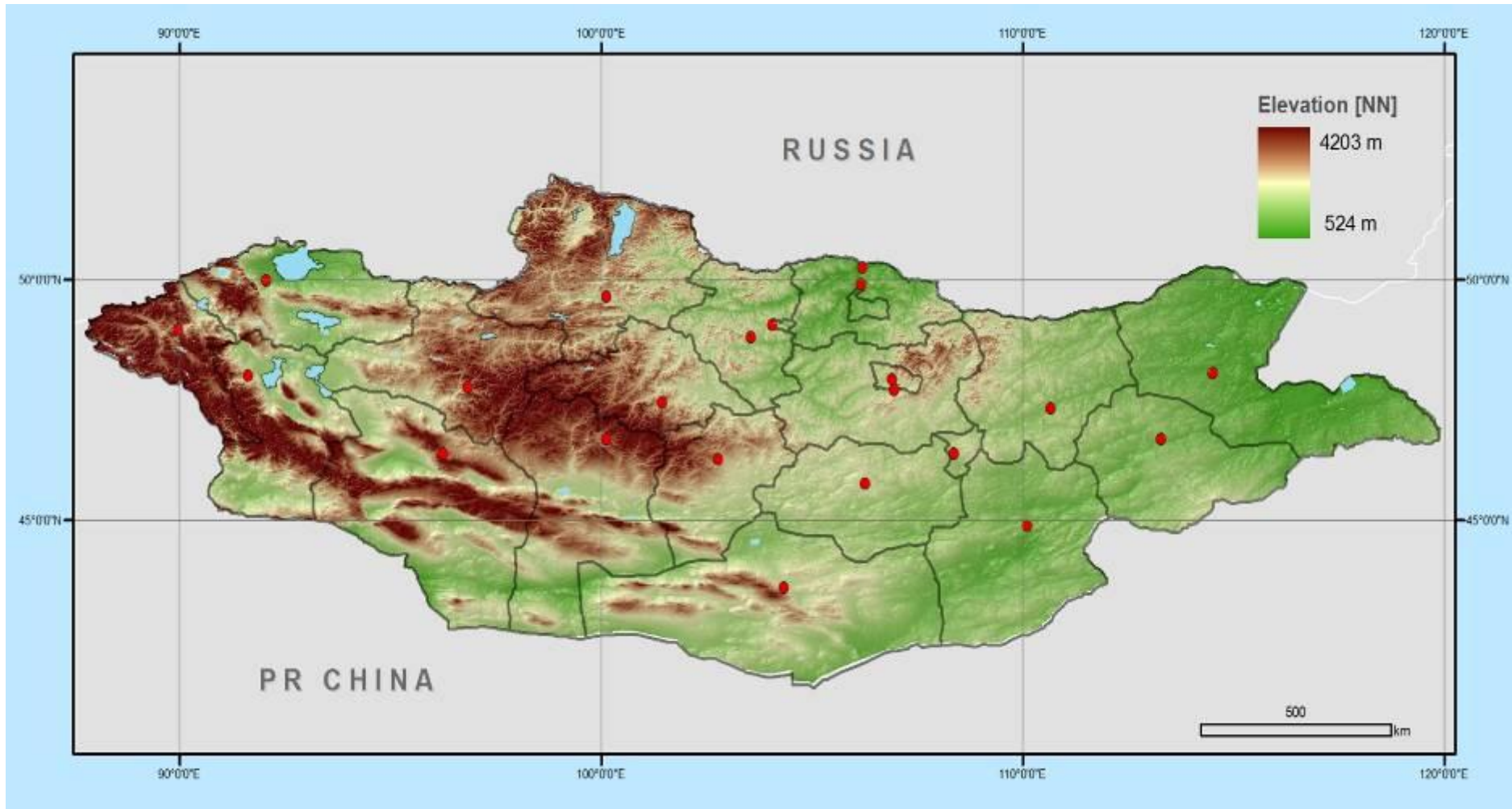
[Enter new province](#)

	Region	Remarks	
	Achit-Nuur	lake	edit
– province unknown	Buche-Myren	river	edit
Arkhangay	Bulgan-Gol	river	edit
Autonomous municipalities	Burgedtey-Khayrkhan-Uul	mountain	edit
Ömnögovi	Buyant-Gol	river	edit
Övörkhangay	Chigirtey-Gol	river	edit
Bayan-Ölgiy	Dayan-Nuur	lake	edit
Bayankhongor	Ikh-Turgen-Uul	mountain	edit
	Tolbo	Tolbo	edit
Bulgan	Tsengel	Khöshööt	edit

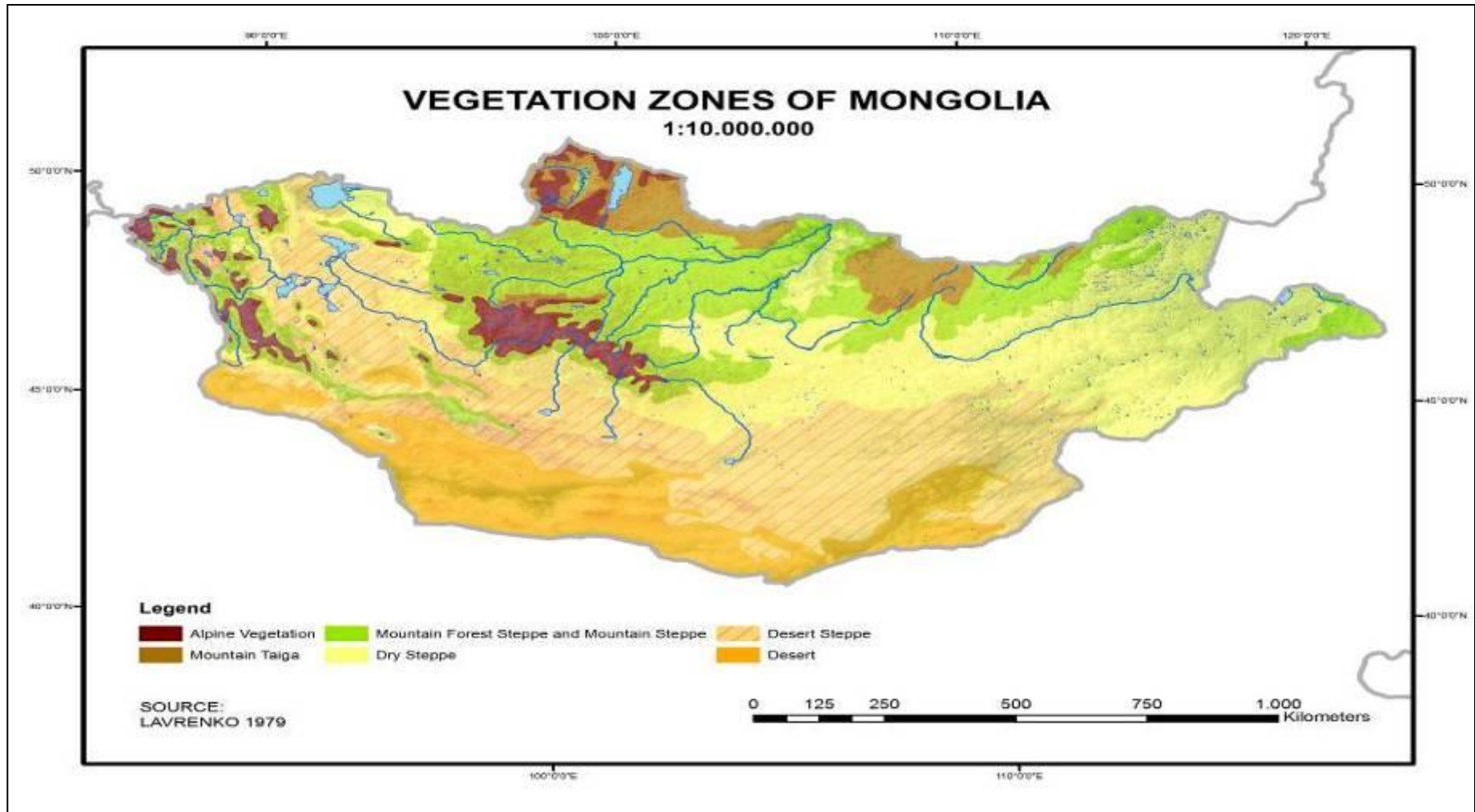
Geographical Data



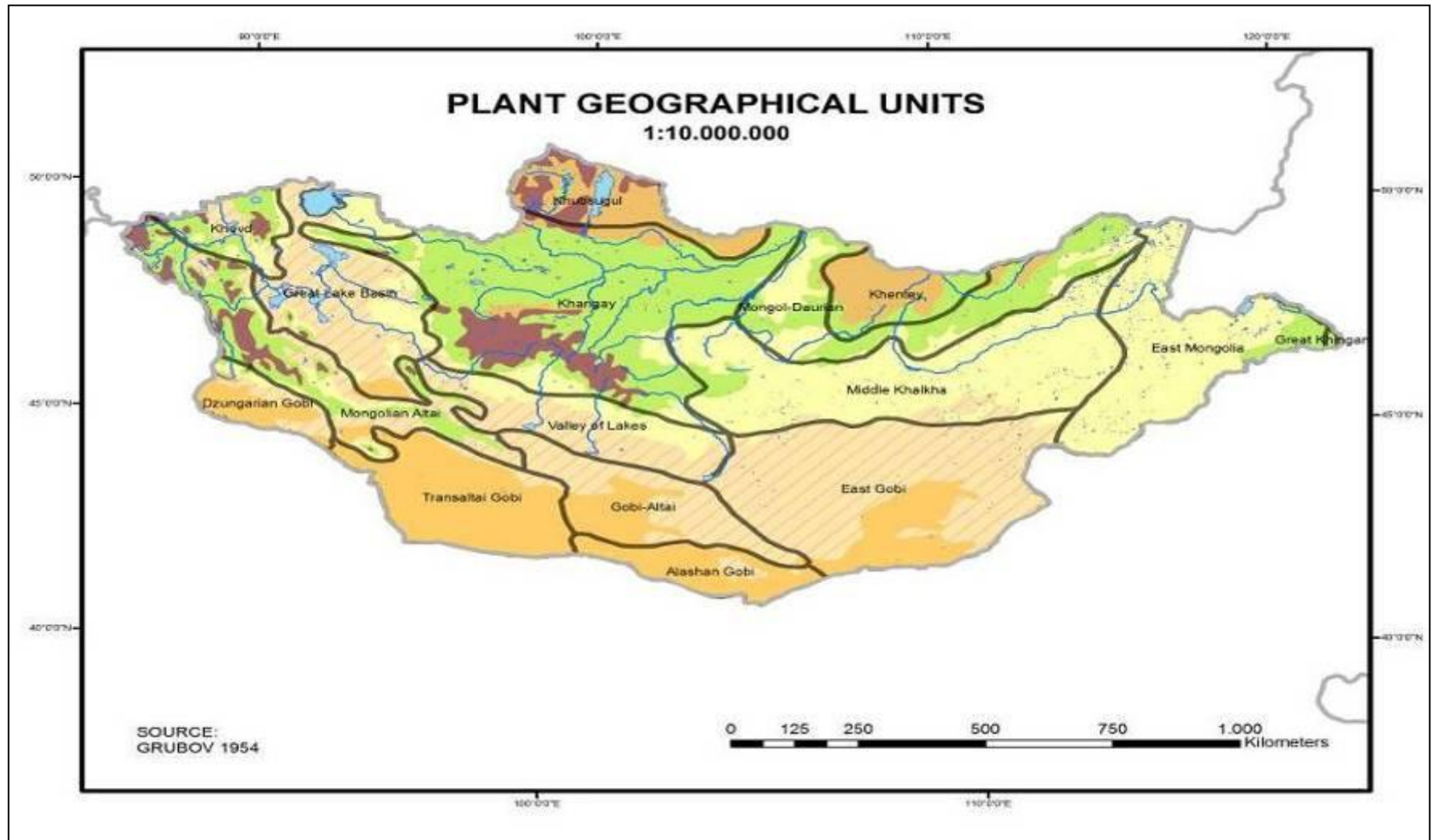
Geographical Data



Geographical Data



Geographical Data





Further maps

- Hydrography
- Traffic net
- Soil map
- Topography 1 : 500 000



FloraGREIF database

- Floristic data on the flora of Mongolia
- Geographical data of Mongolia & of plant species
- **Images: herbar specimen, habitus, habitats, macro images (RECORD related, TAXON related)**
- Literature data base

RECORD related images

Calligonum mongolicum Turcz. (Polygonaceae) date: 07.12.07



A close-up photograph of a plant stem and a large, dense, yellowish, spiky flower head. The stem is green and has several small, green, aphid-like insects clustered on it. The flower head is composed of many fine, yellowish, spiky structures. The background is dark and out of focus.



FloraGREIF database

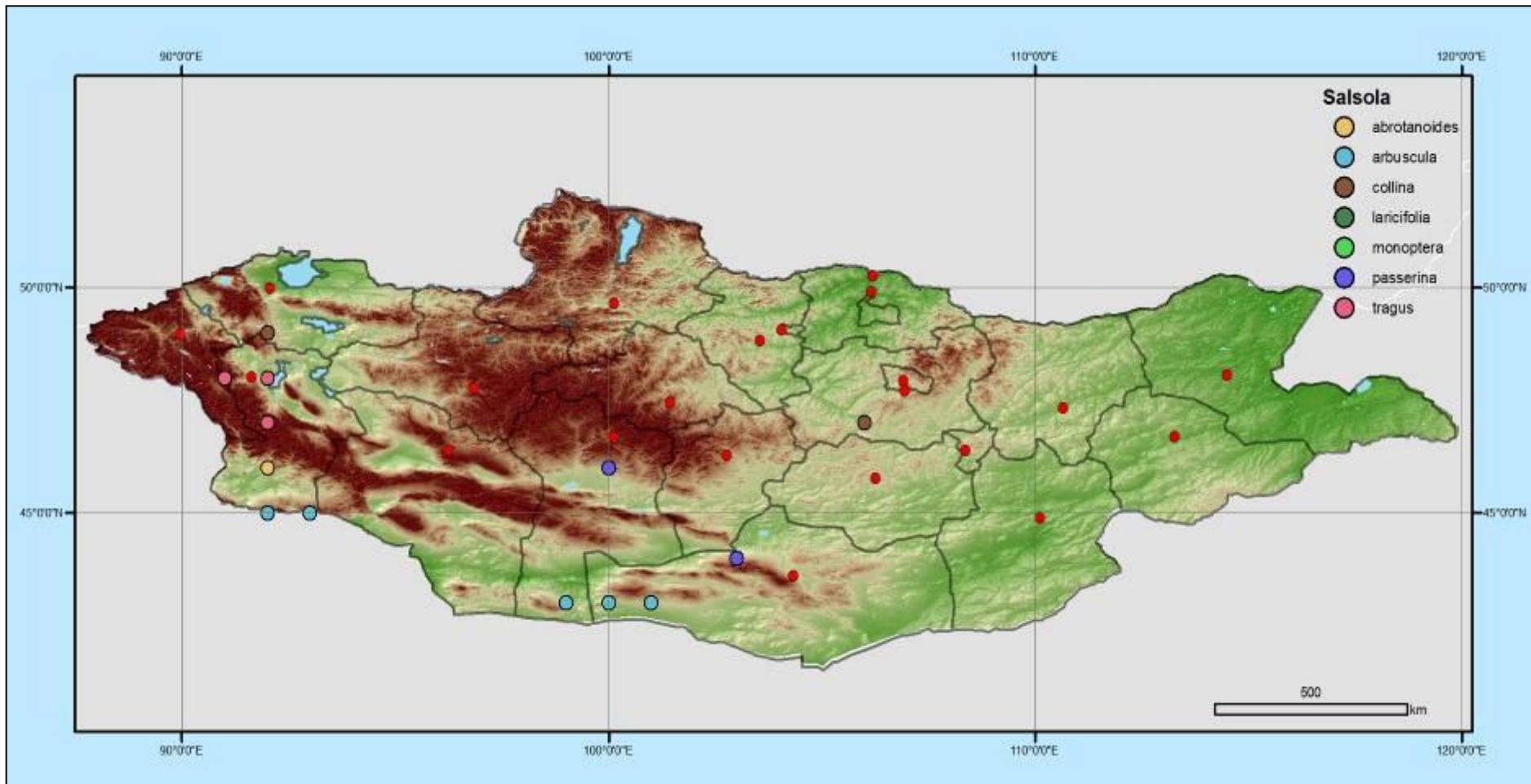
- Floristic data on the flora of Mongolia
- Geographical data of Mongolia & of plant species Ecological data
- Images: herbar specimen, habitus, habitats, macro images (RECORD related, TAXON related)
- **Literature data base on Mongolia's flora and vegetation**

not available yet

Aims & Applications

- Infrastructure of a virtual flora
- Plant species determination
- Generate knowledge
- Information pool
- Visualises information
- Analysis tool

Analysis



Analysis



Technical bases

- Content management system GREIF (open-source-components: Linux, Apache, MySQL, PHP)
- International standards: OAI, ABCD
- Logical search algorithm and navigation instruments
- Digital compression procedures
- Storage capacities in terabyte dimensions

Cooperation with

- Chair of General and Special Botany, Institute for Botany and Landscape Ecology, University of Greifswald (M. Schnittler)
- Computer centre, University of Greifswald (J. Formella)
- Botanical Garden and Botanical Museum Berlin-Dahlem (international GBIF network)
- Herbaria of Halle, Gatersleben and Jena
- Institute of Biology, Geobotany and Botanical Garden, University of Halle
- Institute of Geography, University of Hamburg
- Institute of Botany Ulaanbaatar, Academy of Science of Mongolia
- State University of Khovd, Western Mongolia

A close-up photograph of a plant stem, likely from a legume, showing several green, pointed buds and one small, partially open white flower. The stem and buds are covered in fine, white, spreading hairs. The background is blurred, showing more of the plant and some green leaves.

<http://floragreif.uni-greifswald.de>

Herzlichen Dank für Ihre Aufmerksamkeit!

