A close-up photograph of a plant with several green, cylindrical stems. The stems are covered with numerous small, white, hair-like structures. At the top of the stems are several red, spherical, spiky structures, which appear to be developing flower buds or fruits. The background is blurred, showing more of the same plant.

FloraGREIF

Virtuelles Herbar der Mongolei –
Ein Projektbericht

Die Vorgeschichte

- Greifswald: drittgrößtes Mongolei-Herbar nach Halle und Gatersleben
- Regelmäßig stattfindende Exkursionen
- Nutzung der Herbarbelege vor Ort, Fernleihe nur eingeschränkt möglich
- Zunehmend fotografische Dokumentation von Pflanzen und Lebensräumen in bestehenden Herbaren nicht auffindbar

Die Anforderungen

- **Was?** Internetanwendung
- **Wer?** Studenten, Wissenschaftler, interessierte Laien
- **Wofür?** Fotos, Scans, Aufsammlungen, botanische Informationen zur Art usw. online eingeben und anzeigen
- **Wie?** Nachhaltig, Standardkonform (OAI, GBIF, ABCD), Nutzerfreundlich
- **Warum?** Einarbeitung in fremde Floren online, Auswertungen (Verbreitung, Neufunde), Bestimmung und Vergleich von Belegen

Erste Antworten

- **Was?** 'Baukasten GREIF': PHP, MySQL, HTML
- **Wer?** Benutzerverwaltung mit abgestuften (Zugriffs-)Rechten für Dateneingabe
- **Wofür?** Verschiedene Informationsebenen: Aufsammlung (Record), Botanische Angaben (Taxon), Zugeordnete Daten (Fotos, Scans)
- **Wie?** Langzeitarchivierung und Backup des Rechenzentrums, GBIF-Portal Berlin
- **Warum?** Zusammenarbeit mit Herbarien Halle, Gatersleben, Berlin, Ulan Bator; Studenten, Wissenschaftler für Test und Feedback

Überlegungen

- Erfolgreiche Websites als Ideen-Lieferanten:
 - <http://ww2.bgbm.org/Herbarium/default.cfm> (Botanischer Garten und Botanisches Museum, Berlin)
 - <http://www.visualplants.de/> (digitalisierte Bilder und Herbarbelege von Pflanzen aus Kenia, Uganda, Costa Rica und Ecuador)
 - <http://www.virtualherbarium.org/> (Fairchild Tropical Botanic Garden, Florida)
- Digitalisierung eines bestehenden Herbars
- Aufbau eines virtuellen Herbars



Botanic Garden and Botanical Museum Berlin-Dahlem
 Digital herbarium specimens with [TrueSpectra Imageserver](#)

Collection:	Sub collection:	Country:
Herbarium B	Spermatophytes	South Africa
Family:	Genus:	
any	any	

The images ma
used for comm

BGBM

- DIPODACEAE
- DROSERACEAE
- ERICACEAE
- ERIOCAULACEAE
- ERYTHROXYLACEAE
- EUPHORBIACEAE
- FLACOURTIACEAE
- GERANIACEAE
- GRAMINEAE
- HYDROCHARITACEAE
- HYPOXIDACEAE
- IRIDACEAE
- JUNCAGINACEAE
- LABIATAE
- LEGUMINOSAE
- LILIACEAE
- LORANTHACEAE**
- MALVACEAE
- MELIACEAE
- MENISPERMACEAE
- MOLLUGINACEAE

BGBM Digital Specimens - HTML-Query - Mozilla Firefox



Botanic Garden and Botanical Museum Berlin-Dahlem
 Digital herbarium specimens with [TrueSpectra Imageserver](#)

Collection:	Sub collection:	Country:
Herbarium B	Spermatophytes	South Africa
Family:	Genus:	
LORANTHACEAE	any	
Name:	any	
any	Agelanthus	
	Erianthemum	
	Plicosepalus	
	Viscum	

Barcode	B 10 0159223
Family	LORANTHACEAE
Name the specimen is stored under (not necessarily verified)	Agelanthus prunifolius (E.Mey. ex Harv.) Polhill & D.Wiens
Country	South Africa



Barcode	B 10 0159224
Family	LORANTHACEAE
Name the specimen is stored under (not necessarily verified)	Agelanthus prunifolius (E.Mey. ex Harv.) Polhill & D.Wiens
Country	South Africa



Fertig

Page 1 2 3
 Displaying 1-2 of 6 images.

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[BGBM Information Server](#)

[Dept. of Biodiversity Informatics](#)

[BGBM Index](#)

Der erste Prototyp

- Kommunikation ungleicher Partner
 - Die Nutzer vs. Die Programm-Entwickler
- Entscheidung über Form (Layout)
- Entscheidung über Funktion
- Diskussion der Möglichkeiten und Visionen
- mit Papier und Bleistift (Powerpoint, Whitebord) oder 'Out of the Box'-Systemen
 - Die Technikaffinität der Anwender ist entscheidend, nicht die der Entwickler

Ein CMS muss her ...

- **Was?** 'Baukasten GREIF': PHP, MySQL, HTML
- Verwalten und Erschliessen von Inhalten einer Internet-Präsenz, Bedürfnisse und Voraussetzungen der unterschiedlichen Nutzergruppen beachten
- GREIF: Kernfunktionen (Formular-Templates, Weblayout-Templates, Datenbankbindung, Nutzerverwaltung) auf Basis von WordPress
- GeoGREIF: erfassen von Karten und Dokumenten zu Orten; Zugang für den Nutzer über den Ortsnamen
 - **Historische Kartenwerke nach Themen:** 14.054 Karten (7881 Scans)
 - **Historische Kartenwerke nach Ländern** 12.205 Karten (2328 Scans)
 - **Moderne Kartenwerke Deutschland** 9188 Karten (2390 Scans)
- FloraGREIF: erfassen von bot. Angaben, Herbarbelegen, Aufsammlungen, Fotos; Zugang für den Nutzer über den Taxon-Namen.

search by family search by genus

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

Currently listed: 128 families with 665 genus and 2806 species.

family	(No. Genus / No. Species)
Adoxaceae	(1 / 1)
Alismataceae	(2 / 4)
Alliaceae	(2 / 49)
Amaranthaceae	(1 / 4)
Apiaceae	(34 / 66)
Apocynaceae	(2 / 2)
Araceae	(1 / 1)

Good Morning, **Jane Test**. [[Logout](#), [My Account](#)]

labels

search by family search by genus

Listing all records for family: **Chenopodiaceae**

[enter new record: Chenopodiaceae](#)

remarks	record	leg	colno or date
	Agriophyllum pungens	W. Hilbig, D. Bumschaa u.a.	26.07.1979
	Agriophyllum pungens	W. Hilbig, D. Bumschaa u.a.	26.07.1979
	Agriophyllum pungens	Helmecke u. Schamsran	28.06.1973
Chenopodiaceae Agriophyllum	Agriophyllum pungens	H.-D. Knapp	511/88
	Agriophyllum pungens	K.-F. Günther et M. Schnittler	27817
	Agriophyllum pungens	W. Hilbig & Z. Schamsran	17.8.1976
	Agriophyllum pungens	Zemmrich	24.6.02
	Agriophyllum pungens	H.-D. Knapp	226/88

(Test)System

- Nutzbarkeit, Antwortzeiten, Stabilität des Systems unter 'echten' Bedingungen
 - Tatsächliches Testsystem mit fiktiven aber realistischen Daten, definierte Testfälle
 - Potentielles Produktivsystem mit echten Daten, erhöhte Anforderungen an Entwickler (Backup) und Anwender (Engagement)
- Entwicklung der Internetanwendung und Dateneingabe erfolgen parallel
 - Änderungen sofort für Anwender nutzbar
 - 'Altdaten' auf den neuen Stand bringen

search by family search by genus search by species

[enter new taxon data »](#)

Currently listed: 10 species

+ : new in Gubanov 1996, * : new from other sources

	int.comments	tax.comments	Taxon
+	nicht FCI?		Ephedra dahurica Turcz.
			Ephedra equisetina Bunge
	no material seen		Ephedra fedtschenkoae Pauls.
*	revised by Freitag & Maier-Stolte in FC?		Ephedra gerardiana Wall. ex Stapf
			Ephedra glauca Regel
	Schrenk ex C. A. Mey. (mistake in Gubanov) nach IPINI korrigiert		Ephedra intermedia Schrenk & C. A.
			Ephedra lomatolepis Schrenk
			Ephedra monosperma C. A. Mey.
			Ephedra przewalskii Stapf
*	revised by Freitag & Maier-Stolte not yet in FC		Ephedra pseudodistachya Pachom.

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

Do you really want to edit this taxon? [cancel](#)

internal remarks

nicht FCI?

Edited by: /Sabrina Rilke (rilke)/Sabrina Rilke (rilke)/Sabrina Rilke (rilke)/Flora greif Testnutzer (floratest)/Flora greif Testnutzer (floratest)/Sabrina Rilke (rilke)

family: Ephedraceae, genus: Ephedra, species: dahurica, author: Turcz.

subfamily: , tribe: , subspecies: , author subspecies:

source: Gubanov 1996 new in Gubanov (1996), not in Grubov (1982) further supplement

Ephedra dahurica in Flora of China - online

http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra [check this link](#)

http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra+sinica [check this link](#)

synonym names

family: Ephedraceae, genus: Ephedra, species ssp. subspecies: sinica, author: Stapf

source: Grubov 1982 [add another synonym](#)

description

Up to 30(40) cm tall. Twigs usually densely fasciculate at base, rarely contorted, 1 - 1.3 mm wide, smooth or papillose, sometimes grains of sand sticking to the surface. Leaves (2.5)3 - 4(5.5) mm, fused for 1/2 - 2/3, sheaths bulging and dark brown at base or whitish with only a basal brown ring. Female cones 2-seeded, inner bracts fused for ca. 1/2, micropyles 0.7 - 1.2 mm, erect.

confuse with

E. pseudodist., E. lomatolepis

taxonomic comments

comments

E. sinica Stapf with smooth twigs and whitish leaves shows all transitions to the earlier described E. dahurica with papillose twigs and partly brown leaf sheaths and has identical ITS sequences. Therefore the name is reduced to synonymy in this account.

distribution (1, ..., 16) **source of dist. data** **distribution khngay**

2,3,4,5,7,8,9,10,11,12,13,14,15 Gubanov 1996 I II III IV V VI

status -> firstly described from geogr. region **source**

-- **source**

habitat

On most habitats in steppe and semidesert areas (acc. to H. Freitag und M. Maier-Stolte), Rocky and stony slopes of mountains and hills, along slopes and pebble bottom of sayrs, on half-fixed thin sands. (Grubov 2001)

growth form

Small subshrub, sometimes almost hemicryptophytic (acc. to H. Freitag und M. Maier-Stolte)

status acc. to Red Data Book (1997)

++++ Status accord. to Ministry for Nature and the Environment of Mongolia (1997)

Back to ... this family this genus

[save changes »](#)

[cancel](#)

Get all records where

family genus species
 collector/photographer collection number

Listing all records for family: **Ephedraceae** genus: **Ephedra** species: **equi**

[enter new record: Ephedraceae Ephedra equi](#)

currently displayed: 1 – 13 (for undetermined records: see below)

	int. remarks	presentation remarks	record	leg	phot
			Ephedra equisetina	Anne Zemmrich	
			Ephedra equisetina	W. Hilbig & Z. Schamsran	
			Ephedra equisetina	S. Danert, C. Davazhamc, P. Hanelt & Ch. Sanchir	
			Ephedra equisetina	S. Danert, C. Davazhamc, P. Hanelt & Ch. Sanchir	
			Ephedra equisetina	C. Davazhamc & P. Hanelt	
	?geogr. data russ ergänzen- 124		Ephedra equisetina	Ikonnikov-Galitzky, N. u. V.	
scan	scan	twigs erect, densely fasciculate, leaf sheaths brown, with short obtuse teeth	Ephedra equisetina	Chaney R. W.	

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

Do you really want to edit this record?
cancel

this family
 this genus **save changes >**
 this species

internal remarks
 us Kurzeingabe
 Edited by: Sabrina Rilke (nlk4)/ Sabrina Rilke (nlk4)/ Sabrina Rilke (nlk4)/ Floragreif Testnutzer (floratest)/
 Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
 Import remark: Dirnkteingabe
Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

leg.: date: no.:
 phot.: date: no.:
 det.: date:
 formerly det. as:
 teste: date:
 rev.: date:
 flowering status: adult, vegetative
 comments for presentation:
 remarks written on original herbar label:

herbar sheet
 index herb.: acc. no.: collection:
 image file:
 delete image
 upload image file:
 add another herbar image >

hide show remove this photo
 type: made by:
 comments:
 image file:


hide show
 type: made by:
 comments:
 upload image file:
 add another photo >

locality
 province and district acc. to FloraGRBF project map:
 Mongolia prov. dist.
 geogr. region acc. to Akademiya Nauk SSSR & Akademiya Nauk MNR (1990)
 locality data as written on herbar label (please keep the original non-english label data here)

 additional locality description

 next important location
 dist: dir: name:
 coord. type: coord. ref: coord. unit: decimal
 lat (N): lon (E): GPS: prec:
 approx. m asl alt. (lower) alt. (upper) exp: inc:

habitat
 habitat (arranged/translated label data)

 Habitat: as written on herbar label (please keep the original label data here)

this family
 this genus **save changes >**
 this species

cancel

Eine Frage der Perspektive

- **Wer?** Studenten, Wissenschaftler, Laien
- **Datenerfassung** (geschützt):
 - Bereitschaft für sorgfältiges Arbeiten und Einarbeitung in etwas komplexere Formulare
 - Notwendigkeit, die Datenlage insgesamt zu überblicken
- **Datenrecherche** (öffentlich):
 - so einfach und selbsterklärend wie möglich: auch Nutzer mit geringen Vorkenntnissen bedenken
 - oft nur Teilbereiche der Daten interessant: Ungeduld gelernter Internet-Nutzer bedenken

Search Plant Database

[Start a new search](#)

[Need help?](#)

Taxon

Record

Images

simple search

choose a taxon (wenn eine Familie ausgewählt wurde, wird automatisch die Genus-Liste eingeschränkt, Species dito)

Choose family ...▼

Choose genus ...▼

Choose species ...▼

Asteraceae

...

advanced search

choose a taxon and then refine your search

Enter Leg. Name

Choose Country ▼

Choose Leg. Date ▼

Mongolia

...

2000 - 2008

1990 - 1999

...

habitat photo(s)

herbarium sheet scan(s)

macro image(s) of herbar sheet

macro image(s) of living plant

Search Plant Database

[Start a new search](#)

[View Taxon Data for Asteraceae Achillea](#)

[View Image Gallery for Asteraceae Achillea](#)

Record Data: Asteraceae Achillea

[Result List View](#) | [Image Gallery View](#)

Asteraceae Achillea alpina L., leg. H.-D. Knapp (10.07.1978), Mongolia

[View Record Data](#) [View Herbarium Sheet Scan](#)

Asteraceae Achillea alpina L., leg. H.-D. Knapp (11.07.1978), Mongolia

[View Record Data](#) [View Herbarium Sheet Scan](#) [View Habitat Photo](#)

Asteraceae Achillea asiatica Serg., leg. K. Fuchs (01.05.1979), Mongolia

[View Record Data](#) [View Herbarium Sheet Scan](#) [View Macro \(Scan\)](#)

.....
[View Record Data](#) [View Habitat Photo](#)

Verschiedenes unter einen Hut bringen

- **Wofür?** Fotos, Scans, Aufsammlungen, botanische Informationen zur Art usw. online eingeben und anzeigen
 - Aufsammlung (Record) mit Scan, Foto, Makro => bearbeitete Daten online einsehbar, unbearbeitete Daten (Rohdaten, Exkursionslisten) intern
 - Botanische Angaben (Taxon): Name, Beschreibung, Verbreitung
 - Zugeordnete Daten (Fotos, Scans): Spezies-Foto als virtuelle Aufsammlung, Spezies-Foto als Ergänzung einer Aufsammlung, Habitat-Fotos

Record Data

Image Data

this family
Back to this genus this species [save changes »](#)

internal remarks
Us Kurzeingabe
Edited by: Sabrina Rilke (rilke)/ Sabrina Rilke (rilke)/ Sabrina Rilke (rilke)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direkteingabe

Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

leg.: Zemmrich, Anne date: 30.6.2002 no.:
phot.: date: no.:
det.: date:
formerly det. as:
teste: date:
rev.: H. Freitag & M. Maier-Stolte date: 25.11.2008
flowering status: adult, vegetative
comments for presentation:
remarks written on original herbar label:

herbar sheet
index herb. GFW () acc. no. 038843 collection
image file: Ephe-loma-GFW-038843
 delete image
upload image file: Durchsuchen...

[add another herbar image »](#)

hide show remove this photo
type Macro made by FloraGREIF: S. Rilke
comments twigs moderately papillose, bulging leaf sheaths fused nearly to the top
image file: ephe_loma_GFW_30-6-2002_zemmrich_ms.jpg


hide show
type Choose: made by
comments
upload image file: Durchsuchen...

[add another photo »](#)

locality
province and district acc. to FloraGREIF project map: 000
Mongolia prov. Khovd dist. Bulgan
geogr. region acc. to Akademiya Nauk SSSR & Akademiya Nauk MNR (1 990)
locality data as written on herbar label (please keep the original non-english label data here)
additional locality description
next important location
dist. dir. name
coord. type coord. ref coord. unit decimal
lat (N) 45.3281 lon (E) 90.9016 GPS prec
 approx. m asl alt. (lower) alt. (upper) exp inc
hide Map show Map

habitat
habitat (arranged/translated label data)
Habitat as written on herbar label (please keep the original label data here)

this family
Back to this genus this species [save changes »](#)

herbar sheet

herb scan

herb scan

...

photo: this plant

description

upload image

...

photo: this plant

description

upload image

habitat: this plant

description

upload image

Record Data

this family
Back to this genus this species [save changes >](#)

internal remarks
Us Kurzangabe
Edited by: Sabrina Rilke (rilke)/ Sabrina Rilke (rilke)/ Sabrina Rilke (rilke)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direktengabe

Ephedra lomatolepis Schrenk. (Ephedraceae) **date:** 13.07.09

leg.: Zemmrich, Anne date: 30.6.2002 no.:
phot.: date: no.:
det.: date:
formerly det. as:
teste: date:
rev.: H. Freitag & M. Maier-Stolte date: 25.11.2008
flowering status: adult, vegetative
comments for presentation:
remarks written on original herbar label:

herbar sheet
index herb.: GFV () acc. no.: 038843 collection:
image file: Ephe-loma-GFW-038843
 delete image
upload image file: Durchsuchen...
add another herbar image >

hide show remove this photo
type: Macro made by: FloraGREIF: S. Rilke
comments: twigs moderately papillose, bulging leaf sheaths fused nearly to the top
image file: ephe_loma_gfw_30-6-2002_zemmrich_ms.jpg


hide show
type: Choose: made by:
comments:
upload image file: Durchsuchen...
add another photo >

locality
province and district acc. to FloraGREIF project map: XXX
Mongolia prov. khovd dist. Bulgan
geogr. region acc. to Akademiya Nauk SSSR & Akademiya Nauk MNR (1 990)
locality data as written on herbar label (please keep the original non-english label data here)
additional locality description
next important location
dist. type dir. name
coord. type coord. ref coord. unit decimal
lat (N) 45.3281 lon (E) 90.9016 GPS prec
 approx. m asl alt. (lower) alt. (upper) exp inc
hide Map show Map

habitat
habitat (arranged/translated label data)
Habitat as written on herbar label (please keep the original label data here)

this family
Back to this genus this species [save changes >](#)

Coordinates
Geogr. Region
Admin. Data



Taxon Data

family	genus	species	author
Ephedraceae	Ephedra	dahurica	Turcz.
subfamily	tribe	subspecies	author subspecies

source: Gubanov 1996

new in Gubanov (1996), not in Grubov (1982)
 further supplement

Ephedra dahurica in Flora of China - online
http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra [check this link](#)
http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra+sinica [check this link](#)

synonym names

family	genus	species ssp. subspecies	author
Ephedraceae	Ephedra	sinica	Stapf
source:	Grubov 1982		

[add another synonym](#)

description

Up to 30(40) cm tall. Twigs usually densely fasciculate at base, rarely contorted, 1 - 1.3 mm wide, smooth or papillose, sometimes grains of sand sticking to the surface. Leaves (2.5)3 - 4(5.5) mm, fused for 1/2 - 2/3, sheaths bulging and dark brown at base or whitish with only a basal brown ring. Female cones 2-seeded, inner bracts fused for ca. 1/2, micropyles 0.7 - 1.2 mm, erect.

confuse with

E. pseudodist., E. lomatolepis

taxonomic comments

comments

E. sinica Stapf with smooth twigs and whitish leaves shows all transitions to the earlier described E. dahurica with papillose twigs and partly brown leaf sheaths and has identical ITS sequences. Therefore the name is reduced to synonymy in this account.

distribution (1, ..., 16) **source of dist. data** **distribution khangay**

2,3,4,5,7,8,9,10,11,12,13,14,15 Gubanov 1996 I II III IV V VI

status -> firstly described from geogr. region **source**

-- --

habitat

On most habitats in steppe and semidesert areas (acc. to H. Freitag und M. Maier-Stolte), Rocky and stony slopes of mountains and hills, along slopes and pebble bottom of says, on half-fixed thin sands. (Grubov 2001)

growth form

Small subshrub, sometimes almost hemicryptophytic (acc. to H. Freitag und M. Maier-Stolte)

status acc. to Red Data Book (1997)

+ + + + Status accord. to Ministry for Nature and the Environment of Mongolia (1997)

identified as:

diff. description
distribution
habitat
information

Record Data

this family
 this genus
 this species

Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direkt eingabe

Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

leg.: Zemmrich, Anne date: 30.6.2002 no.:
phot.: date: no.:
det.: date:

formerly det. as:

teste: date:

rev.: H. Freitag & M. Maier-Stolte date: 25.11.2008

flowering status: adult, vegetative

comments for presentation:

remarks written on original herbar label:

this family
 this genus
 this species

Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
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Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

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flowering status: adult, vegetative

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 this genus
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Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direkt eingabe

Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

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teste: date:

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flowering status: adult, vegetative

comments for presentation:

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this family
 this genus
 this species

Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direkt eingabe

Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

leg.: Zemmrich, Anne date: 30.6.2002 no.:
phot.: date: no.:
det.: date:

formerly det. as:

teste: date:

rev.: H. Freitag & M. Maier-Stolte date: 25.11.2008

flowering status: adult, vegetative

comments for presentation:

remarks written on original herbar label:

this family
 this genus
 this species

Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
Import remark: Direkt eingabe

Ephedra lomatolepis Schrenk. (Ephedraceae) date: 13.07.09

leg.: Zemmrich, Anne date: 30.6.2002 no.:
phot.: date: no.:
det.: date:

formerly det. as:

teste: date:

rev.: H. Freitag & M. Maier-Stolte date: 25.11.2008

flowering status: adult, vegetative

comments for presentation:

remarks written on original herbar label:

this family
 this genus
 this species

Back to [save changes >](#)

internal remarks
us Kurzeingabe
Edited by: Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Sabrina Rilke (nikle)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)/ Floragreif Testnutzer (floratest)
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remarks written on original herbar label:

Internal Record Data

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [list by genus](#)

Family	Taxon Data	Record Data	Image Data	Editor
Elaeagnaceae	genus: 2 species: 2	4 records in 2 species		S. Rilke, July 2009
Empetraceae	genus: 1 species: 1	7 records in 1 species		S. Rilke, April 2009
Ephedraceae	genus: 1 species: 10	180 records in 9 species		H. Freitag & M. Maier-Stolte, April 2009
Equisetaceae	genus: 1 species: 9	11 records in 7 species		
Ericaceae	genus: 7 species: 17	4 records in 3 species		
Euphorbiaceae	genus: 2 species: 15	7 records in 3 species		

Virtuelle
Forschungsumgebung

Show Habitat:

Show Photo:

Show Scans:

Family: Ephedraceae, genus: Ephedra, species: dahurica, author: Turcz.

subfamily: none, tribe: none, subtribes: none, author subtribes: none

source: Gubanov 1996

Ephedra dahurica in Flora of China -- online
http://www.efloras.org/browse.aspx/flora_idflora_name_tml#Ephedra [check for link](#)
http://www.efloras.org/browse.aspx/flora_idflora_name_tml#Ephedra [check for link](#)

synonym names

Family: Ephedraceae, genus: Ephedra, species: sinica, author: Stapf

source: Oubov 1982

add another synonym

description

up to 20(40) cm tall. Herbs usually densely fasciculate at base, rarely caudex; stem 1-1.3 mm wide, smooth or papillose, sometimes green or lined reddish to the surface, leaves (2.5) - (4.5) cm, linear for 2/3 - 2/5, sheaths bulging and dark brown at base or whitish with only a basal brown ring. Female cones 2-seeded, three bracts fused for ca. 1/2, microcarps 0.7 - 1.2 mm, erect.

confuse with

E. pseudohedra, E. khatanga

taxonomic comments

consensus

E. sinica Stapf with smooth twigs and whitish leaves shows all transitions to the earlier described E. dahurica with papillose twigs and partly brown leaf sheaths and has identical ITS sequences. Therefore the name is reduced to synonymy in this account.

distribution 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

source of dist. data Gubanov 1996

data for history downloaded from geog. region

habitat

On most habitats in steppe and semidesert areas (acc. to H. Freitag and M. Maier-Stolte), rocky and stony slopes of mountains and hills, along slopes and middle bottom of gorges, on half-lush steppes. (Gubanov 2001)

genus facts

Small subshrubs, sometimes almost hemispherical. (Acc. to H. Freitag and M. Maier-Stolte)

status acc. to Red Data Book (1997)

*** = Status accord. to Ministry for Nature and the Environment of Mongolia (1997)

det. _____ date _____

formerly det. as _____ date _____

text: _____ date _____

rec. H. Freitag & M. Maier-Stolte date 25.11.2008

flowering stage: adult, vegetative

comments for presentation: _____

remark: written on original herbar label

herbar sheet

index herbar: GFW, C, IGC, no.: 038843 collector: _____

image file: Ephedra-Chi-038843

upload image file: _____ Durchsuchen

add another herbar image

hide show remove this photo

type: Macro made by FloraGEP: S. Rilke

comments: twigs moderately papillose, bulging leaf sheaths fused nearly to the top

image file: ephedra_GFW_30-4-2002_2ammrcht_001.jpg

upload image file: _____ Durchsuchen

add another photo

locality

province and district acc. to FloraGEP project map: XXX

Mongolia prov. Khovd dist. Bulgan

geog. region acc. to Akademia Nauk SSSR & Akademia Nauk MNE (1993)

locality data as written on herbar label (please keep the original non-english label data here)

additional locality description: _____

next important location: _____



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Flora of Mongolia

Family Genus Species

Collector Coll. Number

taxon record image

- distribution:
- Khubsgul
 - Khangai
 - Great Khingan
 - Mongolian Altai
 - East Mongolia
 - Valley of Lakes
 - Gobi-Altai
 - Transaltai Gobi
 - Khentei
 - Mongol-Dar
 - Khobdo
 - Middle Kha
 - Depression
 - East Gobi
 - Dzungarian
 - Alashan Go

habitat:

- status:
- Endemit
 - Subendemit
 -
- red list:
- rare
 - relict
 - extinct
 -

list_taxons



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Flora of Mongolia listed by families [list by genus](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Family	Taxon Data	Record Data	Image Data	Editor
Elaeagnaceae	genus: 2 species: 2	4 records in 2 species		S. Rilke, July 2009
Empetraceae	genus: 1 species: 1	7 records in 1 species		S. Rilke, April 2009
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Equisetaceae	genus: 1 species: 9	11 records in 7 species		
Ericaceae	genus: 7 species: 17	4 records in 3 species		
Euphorbiaceae	genus: 2 species: 15	7 records in 3 species		

http://greif.uni-greifswald.de/floragreif/?flora_search=record&fam=&gen=Ephedra&spec=przewalskii



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43 records for Ephedra przewalskii 31 - 40

[Ephedra spec.](#)

Identified as	Editor	Coll. no	Date	Images
Ephedra przewalskii	Leg: H. v. W. Maier-Stolte Teste: H. Freitag & M. Maier-Stolte			
Ephedra przewalskii	Leg: C. D. Maier-Stolte			
Ephedra przewalskii	Leg: D. Maier-Stolte			
Ephedra przewalskii	Leg: D. Maier-Stolte			
Ephedra przewalskii	Leg: R. Maier-Stolte			
Ephedra przewalskii	Leg: T. Maier-Stolte			
Ephedra przewalskii	Ph: S. Rilke			
Ephedra przewalskii	Ph: S. Rilke			
Ephedra przewalskii	Ph: S. Rilke			
Ephedra przewalskii	Leg: R. Maier-Stolte			

http://greif.uni-greifswald.de/floragreif/?flora_search=record&record_id=5781

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View Taxon

Information

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Ephedraceae Ephedra dahurica Turcz.

Revised by: H. Freitag & M. Maier-Stolte, 25.11.08

Record formerly determined as: E. equisetina Bge.

Collected by: Knapp, Hans-Dieter, 2.7.1988, Coll.No. 438/88

Determined by: Knapp, Hans-Dieter

Flowering status: adult, vegetative

Herbarium: [GFW](#)

Images

leaves about 5 mm long
photo by: FloraGREIF: S. Rilke

leaves about 5 mm long,
dark brown at base
photo by: FloraGREIF: S. Rilke

densely fasciculate twigs
photo by: FloraGREIF: S. Rilke

Country: Mongolia

Province: Ömnögov

Locality: "Gobi-Altaj: Tost-ul W Gurvan-Tes" [as written on label]

Coordinates: 100.9667 (lon) 43.2167 (lat) decimal

[show map](#)

Habitat: Felswüste

http://greif.uni-greifswald.de/floragreif/?flora_search=image&fam=Ephedraceae&gen=Ephedra&spec=przewalskii&show=phot

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herbar scans

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5 records for genus *Ephedra* species *przewalskii*

http://greif.uni-greifswald.de/floragreif/?flora_search=image&fam=Ephedraceae&gen=Ephedra&spec=przewalskii&show=scan

[view record](#)

[view record](#)

Ephedra przewalskii

[view record](#)

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herbar scans

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1 scan for genus *Ephedra* species *przewalskii*

Ephedra przewalskii

[view record](#)



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[Taxon Information](#)
[List Records](#)


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we can do better.

***Ephedra dahurica* Turcz. (Ephedraceae)** [view taxon information](#)
[view record](#)

densely fasciculate twigs

Collected by: Knapp, Hans-Dieter 2.7.1988
Photo by: FloraGREIF: S. Rilke



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Search Plants

Information

Get an overview

Targeted search

View Image Gallery

for this Taxon

View Records

for this Taxon



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we can do better.

Family:

Ephedraceae

Scientific name:

Ephedra dahurica Turcz.

Source:

Gubanov 1996, not in Grubov 1982/2001

Synonym:

E. sinica Stapf (acc. to Grubov 1982)

Description:

Up to 30(40) cm tall. Twigs usually densely fasciculate at base, rarely contorted, 1 - 1.3 mm wide, smooth or papillose, sometimes grains of sand sticking to the surface. Leaves (2.5)3 - 4(5.5) mm, fused for 1/2 - 2/3, sheaths bulging and dark brown at base or whitish with only a basal brown ring. Female cones 2-seeded, inner bracts fused for ca. 1/2, micropyles 0.7 - 1.2 mm, erect.

Confuse with:

E. pseudodist., *E. lomatolepis*

Comments:

E. sinica Stapf with smooth twigs and whitish leaves shows all transitions to the earlier described *E. dahurica* with papillose twigs and partly brown leaf sheaths and has identical ITS sequences. Therefore the name is reduced to synonymy in this account.

Distribution:

Khentei, Khangai, Mongol-Daurian, Great Khingan, Mongolian Altai, Middle Khalka, East Mongolia, Depression of Great Lakes, Valley of Lakes, East Gobi, Gobi-Altai, Dzungarian Gobi, Transaltai Gobi (acc. to Gubanov 1996)

Distribution in
Khangay:

western district (Khan-Khukheyskiy, north-western), central district, north-eastern district, eastern district, southern district (acc. to Byazrov et al. 1989)

Habitat:

On most habitats in steppe and semidesert areas (acc. to H. Freitag und M. Maier-Stolte), Rocky and stony slopes of mountains and hills, along slopes and pebble bottom of sayrs, on half-fixed thin sands. (Grubov 2001)

Growthform:

Small subshrub, sometimes almost hemicryptophytic (acc. to H. Freitag und M. Maier-Stolte)

Link to Flora of
China

http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra

Link to Flora of
China

http://www.efloras.org/browse.aspx?flora_id=2&name_str=Ephedra+sinica

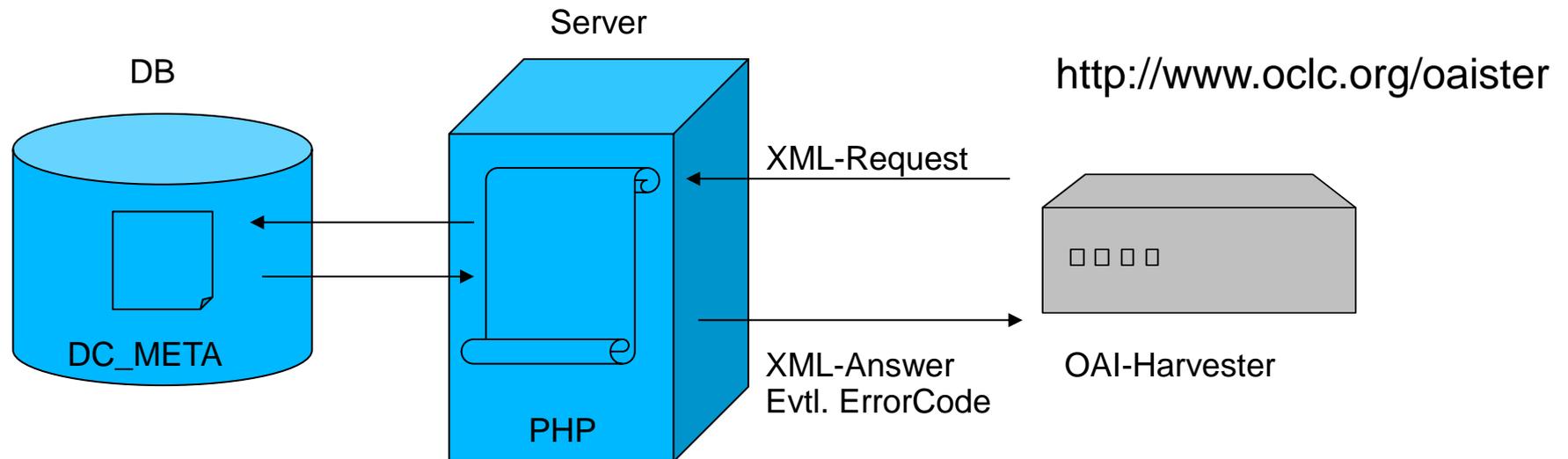
Gefunden werden: Open Archive Initiative

- **Wie?** Nachhaltig, Nutzerfreundlich, Standardkonform
- Schritt 1: Metadaten, Format: Dublin Core
 - DC.TITLE
 - DC.CREATOR
 - DC.SUBJECT
 - DC.DESCRPTION
 - DC.PUBLISHER
 - DC.CONTRIBUTOR
 - DC.DATE
 - DC.COVERAGE
 - DC.TYPE
 - DC.SOURCE
 - DC.FORMAT
 - DC.RIGHTS
 - DC.LANGUAGE

Gefunden werden: Open Archive Initiative

Schritt 2: OAI-Requests implementieren

- Identify
- listIdentifiers
- listRecords
- getRecord
- listSets
- listMetadataFormat



Schritt 3: Repository testen, als Data Provider registrieren

Ausblick

- **Warum?** FloraGREIF – fremde Floren im Internet erschliessen
- Virtuelle Forschungsumgebung:
Zusammenarbeit mit externen Experten
- OAI-Schnittstelle, GBIF-Netzwerk (*Global Biodiversity Information Facility*)
- Weitere Entwicklung der WebGIS-Funktionalität: Auswertung und Visualisierung

A close-up photograph of a plant with several red, spiky, spherical structures (likely seed pods or fruits) attached to a green stem. The structures are covered in fine, white, hair-like spines. The background is blurred, showing more of the plant and some green foliage.

Vielen Dank
Für Ihre Aufmerksamkeit