

E-Taxonomy: Reliable determination of plants is the basis of ecological research

Project FloraGREIF: Key to a Virtual Flora of Mongolia



- ✓ Making online available the large herbaria collections from Mongolia in Germany.
- ✓ Providing a useful resource for plant determination: e-taxonomy (taxa descriptions), virtual herbaria (herbarium specimens and photos).
- ✓ For scientists in applied projects, specialists in plant taxonomy, students of biological sciences, ecologists, amateur botanists, eco tourists ...

Family	Occurring Taxa	Available Records	Images
Chenopodiaceae	genus: 25 species: 99	1207 herbar sheets 126 photo records in 93 species	

Family: Chenopodiaceae (Tribe: Chenopodieae)
 Scientific name: **Chenopodium hybridum L.**
 Name acc. to: Gubanov 1996
 Description: leaves palmately lobed with 2-5 teeth each side, base at least slightly cordate, petiole long: 1/3 to 2/3 of blade; inflorescence rather loose panicle, flowers with 5 perianth segments; seeds large 1.5-2 mm in diameter, seed coat surface with craterlike pits, perianth segments not concealing seed
 Confuse with: Ch. rubrum (differentiate by smaller seeds)
 Comments: for differentiation into subsp. see *FC
 Habitat: Slopes of mountains and hills in shade of rocks and stones, screes, shrubberies, tree shade, slopes and bottom of canyons and creek valleys, deep beds of sayrs, sparsely (Grubov 2001).
 Growthform: herbs annual (acc. to Flora of China 1994-)
 Link to Flora of China: http://www.efloras.org/browse.aspx?flora_id=2&name_str=Chenopodium-hybridum
 Distribution: Khentel, Khangai, Mongol-Daurian, Great Khingan, Mongolian Altai, Middle Khalka, East Mongolia, Depression of Great Lakes, Valley of Lakes, Gobi-Altai, Dzungarian Gobi, Transaltai Gobi, Alashan Gobi (acc. to Gubanov 1996)
 Distribution in Khangay: eastern district, southern district (acc. to Byazrov et al. 1989)

[open map in a new window](#)

Chenopodiaceae **Chenopodium hybridum L.**

Collected by: K.-F. Günther et M. Schnittler, 02.09.2007, Coll.No. 27888
 Determined by: K.-F. Günther et M. Schnittler
 Confirmed by: Rilke, Sabrina, 3.9.08
 Flowering status: adult, fruiting
 Comments for presentation: seeds 2 mm in diameter
 Herbarium: **Herbar K.-F. Günther** Private herbarium K.-F. Günther, Buchaer Str. 6 b, D-07745 Jena, Germany

herbar scan

2 seeds and 4 fruits

leaf

Country: Mongolia Province: Khovd District: Dörgön
 Locality: Seer, canyon of the Chono-Kharaykhyn Gol river, Mongolei, Khovd-Aimak, Senke der Großen Seen, Kara ussu-See (Khar Us Nuur), 12,5_km südöstl. Durgun (Seer)
 Coordinates: Geogr. Coord. 92.794700 (lon) 48.314400 (lat) decimal Prec: 500 m
 Altitude: 1155 ± 25 m

Habitat: rocky, S-exp. side canyon in granite rocks, near the camp-place, auf Felsgeröll

Class	Group	Order
<input type="text"/>	<input type="text"/>	<input type="text"/>
Subfamily	Tribe	Section
<input type="text"/>	<input type="text"/>	<input type="text"/>
Family	Genus	Species
<input type="text"/>	<input type="text"/>	<input type="text"/>

Type of Image all scans species photos habitat photos

Collected/Photographed (i)

Determined (i)

Tested/Revised (i)

Coll. No./Herb. Acc. No. (i)

Herbarium:

Flowering Status:

Location:

Habitat:

Targeted web search with FloraGREIF: parameters

E-Taxonomy

- 2871 Mongolian plant species
 - 264 synonym names of these species
 - 14366 herbarium specimen (26 herbaria)
 - 1781 photo records (12 photographers)
- Last updated 10/2013

Digital Key

- multi access key, interactive determination
- not according to phylogeny, but across borders of families
- presentation of technical terms according to users' previous knowledge (lay persons, advanced, systematic botanists)

Virtual Herbarium

- 3198 records with scan of herbarium specimen
- 6088 records with species photos
- 734 records with macro photos
- 780 records with habitat photos

Last updated 10/2013

Web search with FloraGREIF: overview