

Flora of Altai

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Outlet

- Research history of Altai
- Main vegetation types
- New project “Flora Altai”

History of research in Altai

C. F. Ledebour – “Flora of Altai” (1829)

P. N. Krylov –

“Flora of Altai and Tomsk Province” (1901–1914)

“Flora of Western Siberia” (1927–1949)

“Flora of Siberia ” (1987–2003)

“Flora of China” (1994–present)

“Flora of Kazakhstan” (1956)

“Synopsis of Vascular Plants of Mongolia” (1982) ...

Research history of Altai

Planned expeditions to collect material for the new edition of the new “Flora of Altai” project began 25 years ago.

The initiators:



Prof. R.V. Kamelin (the Botanical Institute n.a. V.L. Komarov, St. Petersburg)



Dr. A.I. Shmakov (ASU, Barnaul)

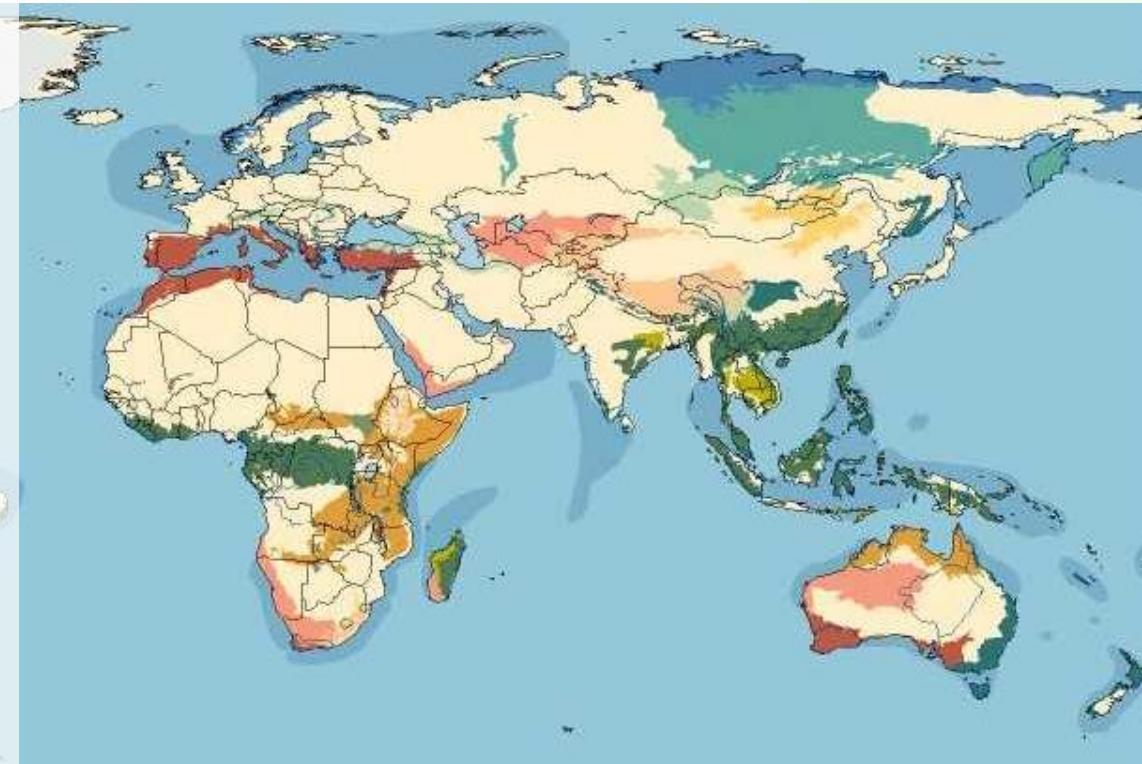
Main vegetation

- More than **2700** plant species,
300 of which endemic.
- The spectrum of leading families :
Asteráceae, Poaceae, Fabaceae,
Cyperaceae, Rosaceae, Brassicaceae.

THE GLOBAL 200: PRIORITY ECOREGIONS FOR GLOBAL CONSERVATION

David M. Olson^{2,3} and Eric Dinerstein²

- Fenno-Scandia Alpine Tundra and Taiga
- European-Mediterranean Montane Mixed Forests
- Ural Mountains Taiga
- **Altai-Sayan Montane Forests**
- Eastern Siberian Taiga
- Taimyr and Siberian Coastal Tundra
- Kamchatka Taiga and Grasslands
- Chukotka Coastal Tundra
- Russian Far East Temperate Forest
- Lena River Delta



Vegetation variety of Altai is 3 times richer than that in the West Siberian plain.

Main vegetation

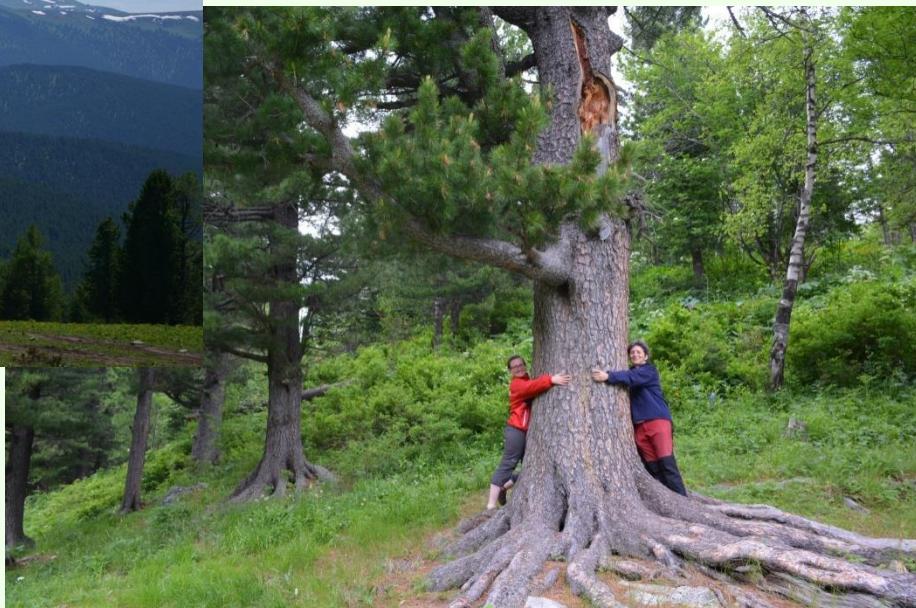
- Forest - Taiga



Subtype of dark coniferous taiga



Pinus sibirica



Main vegetation



Juniperus sibirica

Main vegetation

- Forest - Taiga



Subtype of light coniferous taiga (*Larix sibirica*)

Main vegetation

“White forests”



Betula pendula

Main vegetation

Medow



Main vegetation

Alpine (or alpine-like)
herbaceous
carpet



Main vegetation

Mountain (alpine) tundras



Main vegetation

Steppe



Main vegetation

Steppe



Main vegetation

Stony (petrophytic)
steppes



Main vegetation

Relic elements of
“coloured clays” vegetation



Main vegetation

Petrophilous vegetation (Petrophyton)



Oxygraphis glacialis



Corydalis pauciflora



Valeriana petrophila



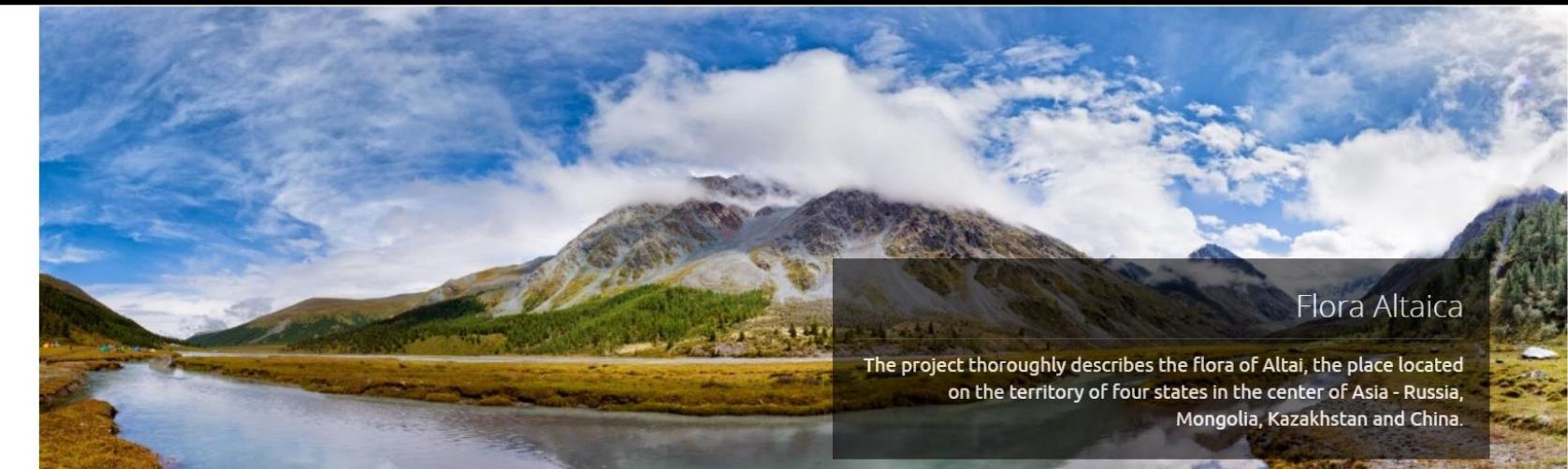
Potentilla biflora

New project “Flora Altaica”

Families and Genus Politomical Key Flowering Plants Gymnospermae Polypodiophyta, Equisetophyta and Lycopodiophyta 🔍

Flora Altaica

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PDF Flora Altaica



Feedback



Photo album



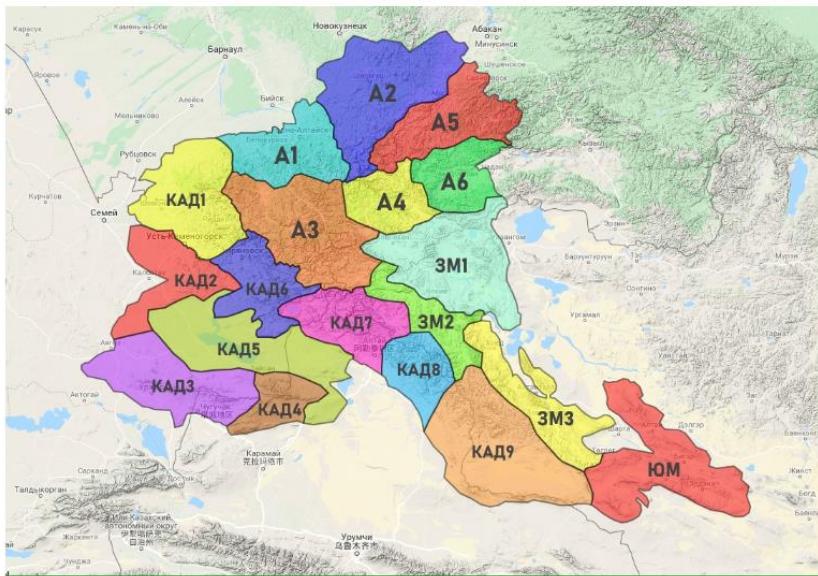
New project “Flora Altaica”

Home > AMC Map

AMC Map

Altai Mountain Country is located in the center of Asia, within the borders of Russia, Mongolia, Kazakhstan and China.

[View](#) the list of the AMC geographical names by phytogeographical areas



Scheme of botanical-geographical subdivision of Altai by R.V. Kamelin (2005), made in WP Google Maps (Vaganov, Shmakov, Gudkova, 2019).

A (A) – Altai province (regions: A1 (A1) – Northern Altai, A2 (A2) – North-Eastern Altai, A3 (A3) – Central Altai, A4 (A4) – Tchulyshman, A5 (A5) – Abakan-Dzhebash, A6 (A6) – Khemchik); KAD (КАД) – Altai-Dzungarian province (regions: KAD1 (КАД1) – North-Western Altai, KAD2 (КАД2) – Kalbinsky, KAD3 (КАД3) – Tarbagatai, KAD4 (КАД4) – Saur, KAD5 (КАД5) – Zaissan, KAD6 (КАД6) – Bukhtarma, KAD7 (КАД7) – Markakol-Kanas, KAD8 (КАД8) – Kara-Irtysh, KAD9 (КАД9) – Altai-Dzungarian); ZM, UM (ЗМ, ЮМ) – Tuvinian-Mongolian province (regions: ZM1 (ЗМ1) – Chuya-Khobdo, ZM2 (ЗМ2) – Tsagan-Gol, ZM3 (ЗМ3) – Khobdo-Tonkhil; UM (ЮМ) – South-Mongolian).

The AMC area was zoned into 19 polygons according to botanical and geographical zoning by R.V. Kamelin (Flora Altaica, 2005).

***Thank you for your
attention!***

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