Short Database Report

Database of Siberian Vegetation (DSV)

Andrey Korolyuk & Andrei Zverev

Abstract: A first variant of Database of Siberian Vegetation (DSV; GIVD ID AS-RU-002) was created in 1994 in the Laboratory of Geobotany of the Central Siberian Botanical Garden of the Siberian Branch of RAS (CSBG SB RAS). Now it is located at the Geosystem research laboratory of CSBG SB RAS and in Tomsk State University. DSV contains geobotanical relevés from Western and Eastern Siberia (incl. Republic Sakha – Yakutia), Altai-Sayan Mountain Country and Transbaicalia. Relevé sets from the Inner Mongolia province of China and the north of Kazakhstan Republic are also included but are not numerous. The main part of the database represents different types of steppe communities: meadow steppes, typical and desertified steppes, cryophyte steppes. Numerous sets comprise forests, meadows and wetlands as well as diverse intrazonal vegetation developed on rocky, sandy and salty habitats. The main purposes of database are developing a syntaxonomy of North Asia, analysing biogeography features of the Siberian flora and vegetation, development of plant indicator values and the ecological analysis of vegetation, vegetation mapping based on remote sensing data and creation of a Geographic Information System. DSV is supported by IBIS software (Integrated Botanical Information System), which provides data storage, data analysis and data exchange

Keywords: China; forest; grassland; high mountain vegetation; IBIS software; Kazakhstan; Russia; Siberia; zonal and intrazonal vegetation.

GIVD Database ID: AS-RU-002		**Last update:** 2012-05-06
Database of Siberian Vegetation (DSV)		
Scope: Database of Siberian Vegetation (DSV) includes ca. 31,000 relevés of forest, steppe, meadow, wetland, tundra and high mountain vegetation, psammophyte, petrophyte and halophyte communities from various regions of Siberia plus relevés from the Inner Mongolia province of China and from the Kazakhstan Republic. The relevés in the database represent most part of the diversity of Siberian habitats, a special focus is on zonal ecosystems (steppes, forests, meadows)		
Status: ongoing capture	**Period:** 1940-2011	
Database manager(s): Andrey Korolyuk (akorolyuk@rambler.ru); Andrei Zverev (ibiss@rambler.ru)		
Owner: Central Siberian Botanical Garden SB RAS, Tomsk State University (private)		
Web address: [NA]		
Availability: according to a specific agreement	**Online upload:** no	**Online search:** no
Database format(s): IBIS	**Export format(s):** TURBOVEG, Excel, PDF, CSV file, plain text file, IBIS exchange file	
Publication: [NA]		
Plot type(s): normal plots	**Plot-size range:** 4-2,500 m²	
Non-overlapping plots: 30,611	**Estimate of existing plots:** 35,350	**Completeness:** 87%
Total plot observations: 30,611	**Number of sources:** 47	**Valid taxa:** 3,564
Countries: CN: 1.1%; KZ: 1.4%; RU: 97.4%		
Forest: 25% — **Non-forest:** aquatic: 3%; semi-aquatic: 15%; arctic-alpine: 4%; natural: 37%; semi-natural: 15%; anthropogenic: 2%		
Guilds: all vascular plants: 100%; bryophytes (terricolous or aquatic): 28%; lichens (terricolous or aquatic): 4%; non-terricolous taxa (epiphytic, saxicolous, lignicolous): 1%		
Environmental data: altitude: 31%; slope aspect: 56%; slope inclination: 56%; microrelief: 67%; soil depth: 13%; surface cover other than plants (open soil, litter, bare rock etc.): 20%; soil pH: 4%; other soil attributes: 4%; land use categories: 7%		
Performance measure(s): cover: 100%; measurements like diameter or height of trees: 65%		
Geographic localisation: GPS coordinates (precision 25 m or less): 39%; point coordinates less precise than GPS, up to 1 km: 23%; small grid (not coarser than 10 km): 27%; political units or only on a coarser scale (>10 km): 11%		
Sampling periods: 1940-1949: 0.2%; 1950-1959: 0.7%; 1960-1969: 0.8%; 1970-1979: 9.7%; 1980-1989: 10.6%; 1990-1999: 32.1%; 2000-2009: 36.2%; 2010-2019: 9.5%; unknown: 0.4%		
Information as of 2012-07-12; further details and future updates available from http://www.givd.info/ID/AS-RU-002		

Andrey Korolyuk (akorolyuk@rambler.ru)
Geosystem Research Laboratory, Central Siberian Botanical Garden SB RAS, Zolotodolinskaya str. 101, 630090 Novosibirsk, RUSSIA

Andrei Zverev* (ibiss@rambler.ru)
Department of Botany, Tomsk State University, Lenin str. 36, 634050 Tomsk, RUSSIA

*Corresponding author

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