Lower Volga Valley Phytosociological Database

Valentin Golub, Alexey Sorokin, Kseniya Starichkova, Lyudmila Nikolaychuk, Viktoria Bondareva & Tatyana Ivakhnova

Abstract: The structure and content of the vegetation database of the Lower Volga Valley are presented (Lower Volga Valley Phytosociological Database, GIVD ID EU-RU-002). The lower part of the Volga valley comprises two parts, the Volga-Akhtuba flood-plain and the Volga delta. Traversing the arid Caspian lowland, the valley of the Volga lower section is remarkable for a broad variety of vegetation. All available phytosociological relevés of different classes have been collected (*Charetea, Lemnetea, Ruppietea maritimae, Potametea, Phragmito-Magno-Caricetea, Isoëto-Nano-Juncetea, Crypsidetea aculeatae, Artemisietea lerchianae, Artemisietea tchernievianae, Oryzetea sativae, Chenopodietea, Secaletea, Glycyrrhizetea glabrae, Molinio-Arrhenatheretea, Thero-Salicornietea strictae, Salicornietea fruticosae, Nerio-Tamaricetea, Salicetea purpureae, Querco-Fagetea*) and stored in a TURBOVEG 2.88 database. Currently, 13,000 relevés are available in the database. The data are mainly used for plant cover classification and studying vegetation dynamics.

Keywords: ecoinformatics; Volga-Akhtuba flood-plain; Volga delta.

GIVD Database ID: EU-RU-002	**Last update:** 2012-07-13
Lower Volga Valley Phytosociological Database	

Scope: All available relevés of different classes (*Charetea, Lemnetea, Ruppietea maritimae, Potametea, Phragmito-Magno-Caricetea, Isoëto-Nano-Juncetea, Crypsidetea aculeatae, Artemisietea lerchianae, Artemisietea tchernievianae, Oryzetea sativae, Chenopodietea, Secaletea, Glycyrrhizetea glabrae, Molinio-Arrhenatheretea, Thero-Salicornietea strictae, Salicornietea fruticosae, Nerio-Tamaricetea, Salicetea purpureae, Querco-Fagetea*) have been collected from the Volga-Akhtuba flood-plain and the Volga delta.		
Status: completed and continuing	**Period:** 1928-2011	
Database manager(s): Valentin Golub (vbgolub2000@mail.ru); Alexey Sorokin (an-sorokin@yandex.ru); Kseniya Starichkova (kseniya-starichkova@yandex.ru)		
Owner: Laboratory of Phytocenology, Institute of Ecology of the Volga River Basin of Russian Academy of Sciences		
Web address: http://www.phytosociology.narod.ru/		
Availability: according to a specific agreement	**Online upload:** no	**Online search:** no
Database format(s): TURBOVEG	**Export format(s):** TURBOVEG	
Publication: Golub, V. B., Sorokin, A. N., Ivakhnova, T. L., Starichkova, K. A., Nikolaychuk, L. F., Bondareva, V. V. (2009): Geobotanicheskaja baza dannykh doliny Nizhney Volgi [Lower Volga Valley Phytosociological Database]. – Izvestiya Samarskogo nauchnogo tzentra RAN. Vol. 11, N 1(4): 577-582, Samara (in Russian).		
Plot type(s): normal plots; time series	**Plot-size range:** 0.15-2500 m²	
Non-overlapping plots: 13,280	**Estimate of existing plots:** 15,000	**Completeness:** 89%
Total plot observations: 13,280	**Number of sources:** [NA]	**Valid taxa:** 1,012
Countries: KZ: 1.0%; RU: 99.0%		
Forest: [NA] — **Non-forest:** [NA]		
Guilds: all vascular plants: 100%; bryophytes (terricolous or aquatic): 5%; lichens (terricolous or aquatic): 2%; algae (terricolous or aquatic): 3%; non-terricolous taxa (epiphytic, saxicolous, lignicolous): 1%		
Environmental data: altitude: 8%; slope aspect: 1%; slope inclination: 1%; microrelief: 34%; other soil attributes: 20%; land use categories: 3%		
Performance measure(s): cover: 100%; measurements like diameter or height of trees: 1%		
Geographic localisation: GPS coordinates (precision 25 m or less): 15%; point coordinates less precise than GPS, up to 1 km: 85%		
Sampling periods: 1920-1929: 2.0%; 1930-1939: 2.0%; 1950-1959: 9.0%; 1960-1969: 3.0%; 1970-1979: 13.0%; 1980-1989: 33.0%; 1990-1999: 13.0%; 2000-2009: 5.0%; 2010-2019: 13.0%		
Information as of 2012-07-25; further details and future updates available from http://www.givd.info/ID/EU-RU-002		

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