

# Slovak Vegetation Database

Jozef Šibík

**Abstract:** The Slovak Vegetation Database (or Central Database of Phytosociological Samples – CDF; EU-SK-001) was established in 1995 at the Institute of Botany, Slovak Academy of Sciences. The aim was to assemble all available phytosociological relevés from the territory of Slovakia and adjacent areas with the objective of producing a vegetation overview of all vegetation types and plant communities of Slovakia. The database provides information not only about the locality, floristic composition and variability of individual vegetation types but also on several environmental variables such as inclination, aspect, geology or soil type, characteristics for individual relevés. The Slovak vegetation database is providing the basis for national and supra-national classification overviews and other scientific studies. It can be linked to any international database, and supports not only the exchange of data, but mainly the possibility of bi- or multilateral projects, vegetation overviews of supra-regional areas (e.g. Carpathians) and supra-regional analyses of vegetation data that will enable a better insight into the functioning and distribution of plant communities, as well as evaluating local and global changes. The current structure of the database used as a basis of Slovak Vegetation Database reflects the experiences and suggestions of the users after years of using the programme TURBOVEG. Very important is also the non-commercial use of the database not only by scientists (botanists, zoologists, ecologists etc.), but also by nature conservation institutions, since it contains high-quality floristic records of both vascular and non-vascular plants with exact localisation and basic environmental characteristics.

**Keywords:** Carpathians; phytosociology; plant community; relevé, TURBOVEG; vegetation database.

<b>GIVD Database ID:</b> EU-SK-001		<b>Last update:</b> 2012-05-07
<b>Slovak Vegetation Database</b>		
<b>Scope:</b> Almost all phytosociological relevés from the Slovak Republic and adjacent areas. The phytosociological relevés from the Carpathian region are also included.		
<b>Status:</b> ongoing capture	<b>Period:</b> 1919-2010	
<b>Database manager(s):</b> Jozef Šibík (jozef.sibik@savba.sk)		
<b>Owner:</b> Institute of Botany Slovak Academy of Sciences		
<b>Web address:</b> <a href="http://ibot.sav.sk/cdf/index.html">http://ibot.sav.sk/cdf/index.html</a>		
<b>Availability:</b> free upon request	<b>Online upload:</b> no	<b>Online search:</b> no
<b>Database format(s):</b> TURBOVEG	<b>Export format(s):</b> TURBOVEG, Excel, plain text file	
<b>Publication:</b> Šibíková I., Šibík J., Jarolímek I. & Kliment J. 2009. Current knowledge and phytosociological data on the high-altitude vegetation in the Western Carpathians — a review. <i>Biologia</i> 64/2: 215-224.		
<b>Plot type(s):</b> normal plots	<b>Plot-size range:</b> 0.01-5000 m <sup>2</sup>	
<b>Non-overlapping plots:</b> 51,581	<b>Estimate of existing plots:</b> 60,000	<b>Completeness:</b> 86%
<b>Total plot observations:</b> 51,581	<b>Number of sources:</b> 1325	<b>Valid taxa:</b> 4,394
<b>Countries:</b> AT: 0.2%; CZ: 0.2%; HU: 0.2%; PL: 0.5%; RO: 0.5%; SK: 98.0%; UA: 0.2%		
<b>Forest:</b> [NA] — <b>Non-forest:</b> [NA]		
<b>Guilds:</b> all vascular plants: 100%; bryophytes (terricolous or aquatic): 60%; lichens (terricolous or aquatic): 60%; algae (terricolous or aquatic): 0%; non-terricolous taxa (epiphytic, saxicolous, lignicolous): 2%		
<b>Environmental data:</b> altitude: 68%; slope aspect: 60%; slope inclination: 60%; microrelief: 30%; soil depth: 2%; surface cover other than plants (open soil, litter, bare rock etc.): 18%; soil pH: 1%		
<b>Performance measure(s):</b> presence/absence only: 1%; cover: 100%		
<b>Geographic localisation:</b> GPS coordinates (precision 25 m or less): 15%; point coordinates less precise than GPS, up to 1 km: 85%; political units or only on a coarser scale (>10 km): 100%		
<b>Sampling periods:</b> < 1919: 0.0%; 1920-1929: 1.6%; 1930-1939: 1.0%; 1940-1949: 0.7%; 1950-1959: 5.5%; 1960-1969: 11.1%; 1970-1979: 16.7%; 1980-1989: 14.2%; 1990-1999: 18.3%; 2000-2009: 17.3%; 2010-2019: 1.0%		
<b>Information as of 2012-07-12; further details and future updates available from <a href="http://www.givd.info/ID/EU-SK-001">http://www.givd.info/ID/EU-SK-001</a></b>		

Jozef Šibík (jozef.sibik@savba.sk)

Department of Geobotany, Institute of Botany, Slovak Academy of Sciences, Dúbravská cesta 9, 845 23 Bratislava, SLOVAKIA