

AuVeg – a database of German floodplain vegetation

Peter Joerg Horchler, Eva Mosner & Jan Peper

Abstract: AuVeg (GIVD ID EU-DE-028) is a database containing phytosociological relevés of German floodplain vegetation including key environmental variables such as hydrological and soil data. It provides essential information to further understand ecological interactions in floodplain habitats. Furthermore, it provides baseline data for the development of habitat models of plant species and vegetation types. Such models will be used to assess the effect of climate change-induced alterations of the riverine flow regime on plant habitats. They are also used in practice supporting the environmental impact assessment in case of riverine construction or maintenance works.

Keywords: habitat model; hydrology; phytosociology.

GIVD Database ID: EU-DE-028		Last update: 2012-07-09
AuVeg		
Scope: Database of German floodplain vegetation including environmental variables		
Status: emerging		Period: 1981-2011
Database manager(s): Peter Joerg Horchler (horchler@bafg.de); Eva Mosner (mosner@bafg.de); Jan Peper (peper@bafg.de)		
Owner: Federal Institute of Hydrology		
Web address: [NA]		
Availability: not yet available		Online upload: no Online search: no
Database format(s): TURBOVEG		Export format(s): TURBOVEG, MS Access, Excel, Open Document, CSV file, plain text file
Publication: [NA]		
Plot type(s): normal plots		Plot-size range: 4-400 m ²
Non-overlapping plots: 5,180	Estimate of existing plots: 6,000	Completeness: 86%
Total plot observations: 5,180	Number of sources: 11	Valid taxa: [NA]
Countries: DE: 100.0%		
Forest: 29% — Non-forest: aquatic: 2%; semi-aquatic: 19%; arctic-alpine: 0%; natural: 10%; semi-natural: 31%; anthropogenic: 10%		
Guilds: all vascular plants: 100%		
Environmental data: altitude: 100%; slope aspect: 5%; slope inclination: 5%; soil depth: 5%; surface cover other than plants (open soil, litter, bare rock etc.): 15%; soil pH: 1%; other soil attributes: 100%		
Performance measure(s): cover: 95%; other: 5%		
Geographic localisation: GPS coordinates (precision 25 m or less): 90%; point coordinates less precise than GPS, up to 1 km: 10%		
Sampling periods: 1980-1989: 2.0%; 1990-1999: 53.0%; 2000-2009: 30.0%; 2010-2019: 10.0%		
<i>Information as of 2012-07-12; further details and future updates available from http://www.givd.info/ID/EU-DE-028</i>		

Peter Joerg Horchler* (horchler@bafg.de), Eva Mosner (mosner@bafg.de), Jan Peper (peper@bafg.de)
 Ecological Interactions, Federal Institute of Hydrology, Am Mainzer Tor 1, 56068 Koblenz, GERMANY

*Corresponding author