Short Database Report

VIOLETEA – heavy metal grasslands

Thomas Becker

Abstract: The VIOLETEA database (GIVD ID EU-00-007) of heavy metal grasslands (*Violetea calaminariae*) i.e. grasslands on soils containing high concentrations of heavy metals, comprises 656 relevés from seven German regions (federal states: Lower-Saxony, North-Rhine-Westphalia, Saxony, Saxony-Anhalt, Thuringia). This number represents more than 90% of the total relevé stock existing from heavy metal grasslands in Germany. It was created in the mid of the 2000s combining own relevés with datasets from the literature (in total 17 sources). There are environmental data available for many relevés including measurements of heavy metals. Mosses and lichens are determined mostly in detail. The data base was created for a survey of heavy metal vegetation in Germany and will be used to analyse geographic patterns within plant communities. Hosted by the department of Geobotany of the University of Trier, the data are available for collaborative research.

Keywords: biodiversity; *Festuco-Brometea*; heavy metal; informatics; phytosociology; pollution; soil data; *Violetea calaminariae*; vegetation classification.

GIVD Database ID: EU-00-007			Last update: 2012-04-28
VIOLETEA			
Scope: Aim of the database is collecting all relevés of central European heavy metal grasslands for vegetation survey. Besides species data the database contains various soil measurements.			
Status: ongoing capture	Period: 1970-2012		
Database manager(s): Thomas Becker (becker	erth@uni-trier.de)		
Owner: Thomas Becker (private)			
Web address: http://www.uni-trier.de/index.php	p?id=43822		
Availability: free upon request	Online upl	oad: no	Online search: no
Database format(s): Excel	Export format(s): [NA]		
Publication: [NA]			
Plot type(s): normal plots	Plot-size range: 1-100 m ²		
Non-overlapping plots: 656	Estimate of existing plots: 1,000	Completen	ess: 66%
Total plot observations: 656	Number of sources: 17	Valid taxa:	401
Countries: BE: 1.0%; DE: 99.0%			
Forest: [NA] — Non-forest: [NA]			
Guilds: all vascular plants: 100%			
Environmental data: altitude: 100%; slope aspect: 91%; slope inclination: 91%; soil depth: 66%; surface cover other than plants (open soil, litter, bare rock etc.): 70%; soil pH: 44%; other soil attributes: 30%			
Performance measure(s): cover: 100%			
Geographic localisation: point coordinates le only on a coarser scale (>10 km): 100%	ss precise than GPS, up to 1 km: 50%	; small grid (not coars	er than 10 km): 100%; political units or
Sampling periods: [NA]			
Information as of 2012-07-12; further details and future updates available from http://www.givd.info/ID/EU-00-007			

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