Short Database Report

Macrophytes of Italian Volcanic Lakes Database

Mattia Martin Azzella, Leonardo Rosati, Mauro Iberite & Carlo Blasi

Abstract: The database was created to investigate the relationship between species composition, community distribution and physical-chemical parameters in Italian volcanic lakes in order to assess the structural heterogeneity and spatial distribution of these plant communities. We collected data on presence and coverage of macrophyte species in 9 Italian volcanic lakes (Mezzano, Bolsena, Vico, Bracciano, Martignano, Albano, Nemi, Grande di Monticchio and Piccolo di Monticchio) and measured the physical-chemical parameters of the water in each basin. We sampled 170 transects in the lakes. Transects were laid from the shore in a perpendicular direction, down to the maximum depth of macrophyte growth. Our results allowed us to identify the macrophyte communities in Italian volcanic lakes as well as their distribution. The macrophyte species composition of the lakes was found to differ reflecting the influence of environmental factors at two different scales: local (within-lake) and regional (between-lakes). Volcanic lakes are dominated by Chara meadows as deep "limestone lakes" of Central Europe. In high status of conservation three types of Chara community are present at different depth zones. This report describes the available content in the vegetation-plot database Macrophytes of Italian Volcanic Lakes Database (GIVD ID EU-IT-007).

Keywords: Chara-lake type.

GIVD Database ID: EU-IT-007			Last update: 2012-07-09
Macrophytes of Italian Volc	anic Lakes Database		
Martignano, Albano, Nemi, Grande and P perpendicular direction, down to the maxi	ce and cover of macrophyte species in 9 Italia riccolo di Monticchio). We sampled 170 trans- mum depth of macrophyte growth (from 3.5m percentage at the sampling point taken at in	cts in the lakes. Transects we to 26 m of depth, depending of	re laid from the shore in
Status: finished	Period: 2010	2010	
Database manager(s): Mattia Martin Azz	zella (mattia.azzella@uniroma1.it); Leonardo	Rosati (leonardo.rosati@uniba	s.it)
Owner: Mattia M. Azzella (private)			
Web address: http://sweb01.dbv.uniroma	a1.it/		
Availability: according to a specific agree	ement Online uploa	d: no Online	search: no
Database format(s): Excel, shape file (GIS on ESRI format) Export format(s): Excel, CSV file, Shape file (GIS on ESRI format)			
Publication: Mattia M. Azzella (2012). Flohttp://hdl.handle.net/10805/1440	ora, vegetazione e indicatori macrofitici dei la	jhi vulcanici d'Italia. PhD thesi	S.
Plot type(s): normal plots	Plot-size range: 1-50 m²		
Non-overlapping plots: 1,776	Estimate of existing plots: [NA]	Completeness: [NA]	
Total plot observations: 1,776	Number of sources: [NA]	Valid taxa: 56	
Countries: IT: 100.0%			
Forest: 0% — Non-forest: aquatic: 100%	6; semi-aquatic: 0%; arctic-alpine: 0%; natura	: 0%; semi-natural: 0%; anthro	ppogenic: 0%
Guilds: all vascular plants: 100%; bryoph	ytes (terricolous or aquatic): 100%; algae (te	ricolous or aquatic): 100%	
Environmental data: altitude: 100%; slop	be aspect: 100%; slope inclination: 100%; oth	er soil attributes: 100%	
Performance measure(s): cover: 100%			
Geographic localisation: GPS coordinate	tes (precision 25 m or less): 100%		
Sampling periods: 2010-2019: 100.0%			
Information as of 2012-07-	-12; further details and future updates ava	lable from http://www.givd.ii	nfo/ID/EU-IT-007

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