



Visibility	Visibility	Public
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Responsible party for this dataset	Organisation	Danube Delta National Institute for Research & Development (INCDDD)
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Identification	Title	eutrophication northern DDBR lakes
	URL	dataportal.aquacross.eu/dataset/eutrophication_northern_ddbr_lakes
	Abstract	To understand the trophic state of lakes, this study aims to determine the dynamics of phytoplankton assemblages and the main factors that influence their seasonal variation. Sampling campaigns were carried out in three lakes from the Danube Delta Biosphere Reserve. Spectral analysis of specific phytoplankton pigments was applied as a diagnostic marker to establish the distribution and composition of phytoplankton taxonomic groups. Fluorescence spectroscopy was used to quantify changes in dissolved organic matter (DOM). The relative contribution of the main phytoplankton groups to the total phytoplankton biomass and the trend of development during succession of the seasons showed that cyanobacteria could raise potential ecological or human health problems. Moreover, fluorescence spectroscopy revealed that Cryptophyta and cyanobacteria were the main contributors to the protein-like components of DOM. It was concluded that fluorescence could be used to provide a qualitative evaluation of the eutrophication degree in Danube Delta lakes.
	Creation date	2016-01-15
	Publication date	2007-01-01
	Last revision date	2017-01-01
	Lineage	The publication shows the results of the analyses based on field-data and measurements performed in 2014 in the Matita-Merhei lake-complex (northern part of the Danube Delta Biosphere Reserve - Romania).
	Related publications	
	Limitations on public use	No limitations
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Keywords	Free keywords	Biota, Protected sites, Eutrophication, Lakes, Phytoplankton, Danube Delta Biosphere Reserve, Romania
	Vocabulary title	
	Vocabulary date	
	Vocabulary date type	
Classification	Topic category	Biota
	INSPIRE theme	Protected sites
Spatial Information	Resource type	
	Spatial representation type	
	Projection	



Spatial extents	Case Study 3 . Danube River Basin	
	North	50.24
	South	42.08
	East	29.76
	West	8.15
Temporal extents	Individual date	2017-01-01
	Start date	
	End date	
Distribution	URL	(<u>www address</u>)
	Name	eutrophication of lakes from northern DDBR
	Format	HTML