

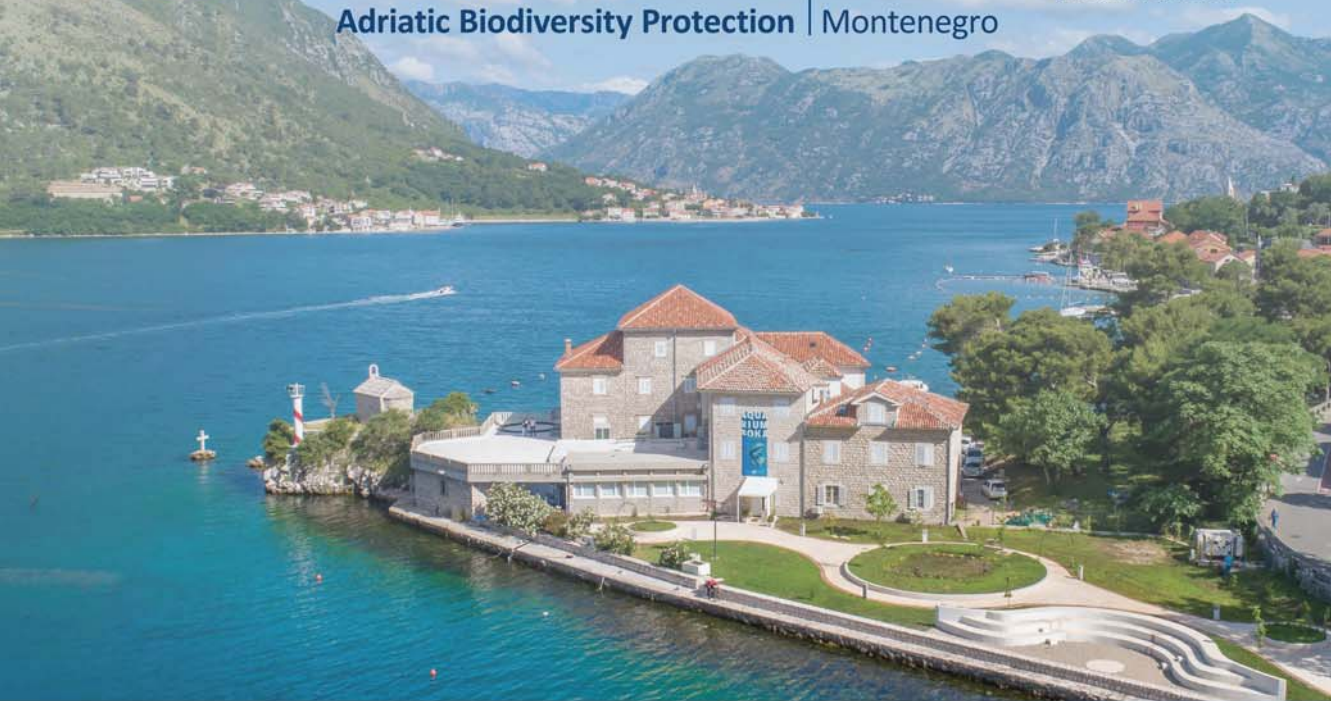


Adriatic Biodiversity
Conservation Center
AQUARIUM BOKA



Centar za zaštitu
biodiverziteta Jadrana
AKVARIJUM BOKA

AdriBioPro2022 | 13-17 June
International Conference: Kotor
Adriatic Biodiversity Protection | Montenegro



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EXChAngE

Book of Abstracts



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International Conference
Adriatic Biodiversity Protection
AdriBioPro2022
13-17 June 2022, Kotor, Montenegro

Book of Abstracts

Institute of Marine Biology
University of Montenegro
Kotor, Montenegro
2022

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THE CONFERENCE

The second International Conference: Adriatic Biodiversity Protection – AdriBioPro2022 is focused on how state-of-the-art research on Adriatic biodiversity protection, conservation of coastal and marine areas and sustainable use of marine resources can contribute to policy- and decision-making. Special attention is put on valorization of Adriatic biodiversity, both marine and freshwater, as tourism offer. Organized to include plenary and breakout sessions covering both disciplinary and interdisciplinary perspectives, Conference results will be used in shaping future marine science priorities and policy in Montenegro and other Adriatic countries. The Conference follows format of the first international conference held in 2019, Adriatic Biodiversity Protection – AdriBioPro2019, which provided updated scientific, decision-making and policy-relevant information across a broad array of different Adriatic issues, marine biology, and related scientific disciplines.

Background

The Institute of Marine Biology of the University of Montenegro is implementing project Explore Cross-border Aquatic Biodiversity – [EXChAngE](#). Project is developing a new tourism product – Blue Pass, which will enable visits of new thematic routes with improved infrastructure: Dubrovnik and Aquarium (Croatia), Kotor and Aquarium Boka (Montenegro), Hutovo Blato Aqua Path, and Mostar Old Bridge and River Neretva (Bosnia and Herzegovina) and attracts more tourists in the area. The second international conference “Adriatic Biodiversity Protection – AdriBioPro2022” is final project event.

Recent research results indicate the cumulative impacts of human activities in the Mediterranean, ranking it as a hotspot of marine biodiversity, and one of the most heavily impacted marine region worldwide. One of the most intensely used and severely degraded regions of the Mediterranean is the Adriatic Sea. It implies a necessity of developing appropriate and effective policy-responses including adaptation actions, enhancement of resilience and implementation of mitigation activities. The Conference will address alterations of Mediterranean ecosystems, with focus on the Adriatic Sea and its biodiversity and analyse widespread conflict among marine users. By presenting the latest science, the Conference will facilitate, synthesize, and summarize the science-policy dialogue.

Topics Addressed

1. Marine biodiversity and conservation
2. Freshwater biodiversity and conservation
3. Cross-border aquatic biodiversity (EXChAngE event)
4. Aquatic alien and invasive species
5. Marine and freshwater pollution
6. Sustainable use of marine resources

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Preliminary diversity analyses of benthic diatoms and macroinvertebrates of selected streams on the Rogozna Mountain

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Abstract

The aim of this paper was to present preliminary results of aquatic ecosystems biodiversity within the target area on the mountain Rogozna, which are under the potential impact of mining activities. Rogozna is a mountain in the southwest part of Serbia, situated in a triangle composed of the upper and central stretches of the Ibar and the Raška River, 12 km from Novi Pazar. The watercourses in the study area are represented by small hilly-mountainous streams. Data were collected during April and September 2021 at 9 localities at selected streams: Barska reka, Karavansalijska reka, Kašaljska reka and Netvički potok. Karavansalijska and Kašaljska reka are draining Ibar through Banjska and Barska reka, while Netvički potok drains Raška through the Tranavska reka. Analyses of aquatic biota included benthic diatoms and macroinvertebrates. The basic characteristics of each locality have been collected using specific protocols (adapted AQEM protocol, 2002). Qualitative analysis of benthic diatoms revealed a total of 49 taxa, belonging to 26 genera. The most frequent taxa of studied watercourses were also the most abundant, such as *Achnantheidium minutissimum*, *Meridion circulare* and *Navicula lanceolata*. In total 116 macroinvertebrate taxa from 16 taxa groups were recorded within the study area. Analysis of the macroinvertebrate fauna indicated that the most abundant components of the community were Diptera (31.06%) and Plecoptera (29.73%). The most abundant species in the community were *Gammarus pulex* (Linnaeus, 1758) and *Protonemura montana* Kimmins, 1941. Overall, results based on benthic diatoms and macroinvertebrate communities indicate that diversity and taxa distribution of mountain Rogozna watercourses are typical for the hilly-mountainous streams, and indicate absence of pollution.

Keywords: Rogozna Mountain, diversity, benthic diatoms, macroinvertebrates