



Marine Biodiversity
Conservation Center
AQUARIUM BOKA

AdriBioPro2019 | 7-10 April
International Conference: | Kotor
Adriatic Biodiversity Protection | Montenegro

Book of Abstracts



ISBN 978-9940-9613-2-9

COBISS.CG-ID 3330896

DOI 10.5281/zenodo.2614428

International Conference
Adriatic Biodiversity Protection
AdriBioPro2019

7–10 April 2019, Kotor, Montenegro

Book of Abstracts

Institute of Marine Biology,
University of Montenegro

Kotor, Montenegro
2019

THE CONFERENCE

The 2019 International Conference: Adriatic Biodiversity Protection – AdriBioPro2019 provided updated scientific, decision-making and policy-relevant information across a broad array of different Adriatic issues, marine biology and related scientific disciplines. Emphasis will be 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. Particular focus was put on the development opportunities which marine biotechnology can offer in the Adriatic. 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.

Background

The Institute of Marine Biology of the University of Montenegro is granted by the Norwegian Ministry of Foreign Affairs to implement a project “Marine Biodiversity Conservation Center “Boka Aquarium” (MonteAqua)” in cooperation with the Center for Fisheries and Biodiversity Conservation of Inland Waters, Institute of Biology and Ecology, Faculty of Science, University of Kragujevac. The International conference “Adriatic Biodiversity Protection” is final project event, dedicated to gather all relevant national and regional stakeholders and to secure closer regional cooperation in the Adriatic Sea region.

According to the UNEP, the Mediterranean Sea is subject to tremendous pressure from multiple human uses and climate change. 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 regions 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 particular 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.

COMMITTEES

Scientific Committee

- **Dr Aleksandar Joksimović, University of Montenegro, Institute of Marine Biology, Kotor, Montenegro, Chair**
- Dr Aleksandra Milošković, University of Kragujevac, Faculty of Science, Institute of Biology, Kragujevac, Serbia
- Prof. Dr. Alexander V. Semenov, S. Yu. Witte Moscow University, Moscow, Russia
- Prof. Dr Andrey Kostianoy, P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia
- Prof. Dr Bajram Ozturk, İstanbul Üniversitesi Akademik Veri Yönetim Sistemi, İstanbul, Turkey
- Prof. Dr Bojan Lazar, University Primorska Slovenia, Koper, Slovenia
- Prof. Dr Branko Glamuzina, University of Dubrovnik, Institute for Marine and Coastal Research, Dubrovnik, Croatia
- Prof. Dr Corrado Piccinetti, University of Bologna, Laboratory for marine Biology, Fano, Italy
- Dr Danilo Mrdak, University of Montenegro, Faculty of Science, Podgorica, Montenegro
- Prof. Dr Davor Lučić, University of Dubrovnik, Institute for Marine and Coastal Research, Dubrovnik, Croatia
- Dr Draško Holcer, Croatian natural History Museum, Mali Lošinj, Croatia
- Dr Enrico Arneri, FAO Adriamed project, Rome, Italy
- Prof. Dr Hermann Ehrlich, Institute of Experimental Physics, TU Bergakademie Freiberg, Freiberg, Germany
- Academician, Igor Zoon, Engineering Research Production Center For Water Management, Land Reclamation and Ecology "Soyuzvodproject", Moscow, Russia
- Prof. Dr Ivica Radović, University of Belgrade, Faculty of Security Studies, Beograd, Serbia
- Dr Jakov Dulčić, Institute of Oceanography and Fisheries, Split, Croatia
- Prof. Dr Jasmina Krpo Četković, University of Belgrade, Faculty of Biology, Belgrade, Serbia
- Dr Jose Rafael Garcia March, Universidad Católica de Valencia SVM, Institute of Environment and Marine Science Research, Valencia, Spain
- Dr Maria Teresa Spedicato, COISPA, Bari, Italy
- Dr Michael Chatziefstathiou, Pan Hellenic Society of Technology and Ichthyology, Athens, Greece
- Dr Mirko Đurović, University of Montenegro, Institute of Marine Biology, Kotor, Montenegro
- Dr Momir Paunović, Institute for Biological Research “Siniša Stanković”, Belgrade, Serbia
- Prof. Dr Nardo Vicente, Institut Oceanographique Paul Ricard, Marseille, France

- Dr Nedo Vrgoč, Institute of Oceanography and Fisheries, Split, Croatia
- Prof. Dr Pavle Anđus, University of Belgrade, Faculty of Biology, Belgrade, Serbia
- Dr Radoje Laušević, University of Montenegro, Institute of Marine Biology, Kotor, Montenegro, Secretary
- Prof. Dr Romina Kraus, Institute Ruđer Bošković-Center for Marine Research, Rovinj, Croatia
- Dr Sajmir Beqiraj, University of Tirana, Faculty of Natural Science, Department of Biology, Tirana, Albania
- Dr Samir Muhamedagić, University of Sarajevo Faculty of Agriculture and Food Science, Sarajevo, BiH
- Dr Slobodan Regner, Institute for Multidisciplinary Research, Belgrade, Serbia
- Prof. Dr Snežana Simić, University of Kragujevac, Faculty of Science, Institute of Biology, Kragujevac, Serbia
- Dr Sreten Mandić, University of Montenegro, Institute of Marine Biology, Kotor, Montenegro
- Dr Stylianos Somarakis, Hellenic Centre for Marine Research, Institute of Marine Biological Resources & Inland Waters Thalassocosmos, Gournes, Heraklion, Greece
- Dr Valter Kožul, University of Dubrovnik, Institute for Marine and Coastal Research, Dubrovnik, Croatia
- Prof. Dr Vladica Simić, University of Kragujevac, Faculty of Science, Institute of Biology, Kragujevac, Serbia
- Prof. Dr Zoran Marković, University of Belgrade, Faculty of Agriculture, Belgrade, Serbia

Organizing Committee

- Aleksandra Huter
- Ana Castelli
- Ana Pešić
- Branka Pestorić
- Danijela Joksimović
- Dragana Drakulović
- Milica Mandić
- Olivera Marković
- **Radoje Laušević, Chair**
- Rajko Martinović
- Slavica Petović
- Vesna Mačić
- Zdravko Ikica

Secretariat

- Emilija Nikčević
- Ines Peraš
- Marija Simić Savić
- Vladan Vuković

ORGANIZED BY



Marine Biodiversity
Conservation Center
AQUARIUM BOKA



INSTITUT ZA
BIOLOGIJU
MORA



Univerzitet Crne Gore

SUPPORTED BY



MONTENEGRO

MINISTRY OF SUSTAINABLE DEVELOPMENT
AND TOURISM



TURISTIČKA
ORGANIZACIJA
OPŠTINE KOTOR



PRINCE ALBERT II
OF MONACO
FOUNDATION



diversity
an Open Access Journal by MDPI



The study, protection and possible breeding of pen
shell (*Pinna nobilis*) in the Boka Kotorska Bay.



NORWEGIAN EMBASSY

This project is financially supported by The Royal Norwegian Embassy in Belgrade www.norveska.org.rs
Realizaciju projekta finansijski je podržala ambasada Kraljevine Norveške u Beogradu www.norveska.org.rs

Author

Božica Vasiljević, bozica@ibiss.bg.ac.rs, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Co-authors

Marija Ilić, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Maja Raković, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Jelena Đuknić, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Nikola Marinković, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Stefan Andus, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Momir Paunović, Institute for Biological Research “Siniša Stanković”, University of Belgrade, Serbia

Presentation title

Towards application of benthic diatoms in ecological status assessment: results of screening of water bodies in Montenegro

Abstract

Diatoms are dominant group in a phytobenthos community of freshwater ecosystems. Their autecological features are well known, and various diatom indices are designed to estimate changes in aquatic ecosystems. In order to develop system for ecological status assessment in Montenegro according to the principles of the EU Water Framework Directive, quantitative and qualitative composition of benthic diatoms was studied. Phytobenthos sampling was carried out during July of 2018 at the Rivers Čehotina, Lim, Tara, Zeta, Morača, Rijeka Crnojevića, Bojana, Komarnica, as well as at the Skadar Lake. Sampling, preparation of permanent slides, identification and enumeration of diatoms were done according to the standard methods. Altogether, 107 taxa belonging to 39 genera were recorded. The most diverse genera were found to be *Navicula* (12), *Cymbella* (11), *Gomphonema* (10) and *Fragilaria* (9). *Achnantheidium minutissimum*, *Amphora pediculus*, *Cocconeis placentula* var. *euglypta*, *Encyonema minutum*, *E. ventricosum*, *Navicula cryptotenella* and *N. tripunctata* were the most frequent, while taxa belonging to *Achnantheidium* sp., *Cocconeis* sp. and *Encyonema* sp. were the most abundant in the samples. Our research revealed dominance of β -mesosaprobic taxa, as well as taxa typical for mesotrophic to eutrophic conditions. It was also confirmed that IPS index is effective metric of stress in running waters. Presented data are in accordance with previous investigations of epilithic diatoms in freshwaters of Montenegro and comparable types of rivers in Serbia, and could be successfully used for further development of ecological status assessment in Montenegro.

CIP – Каталогизација у публикацији

Национална библиотека Црне Горе, Цетиње

International Conference Adriatic Biodiversity Protection – AdriBioPro2019, 7-10 April 2019,
Kotor, Montenegro, Book of Abstracts

Publisher: Institute of Marine Biology, University of Montenegro
Institut za biologiju mora, Univerzitet Crne Gore
P.O.Box 69; 85330 Kotor; Montenegro
Tel +382 32 334 572
<http://www.aquariumboka.ucg.ac.me>
adribiopro@ucg.ac.me

For the Publisher: Dr. Mirko Đurović, Director
Technical Editor: Zdravko Ikica

Image on the cover: Institute of Marine Biology
(Photo: University of Montenegro)

Printed by: DPC d.o.o. Podgorica
Print: 150 copies

© Institute of Marine Biology, University of Montenegro

For bibliographic purposes, this publication should be cited as follows:

International Conference Adriatic Biodiversity Protection – AdriBioPro2019, 7-10 April 2019, Kotor, Montenegro, Book of Abstracts. Institute of Marine Biology, University of Montenegro. 126 pp.

