



University of Zadar  
Universitas Studiorum  
Jadertina | 1396 | 2002 |



INVITE YOU TO THE  
5<sup>th</sup> SCIENTIFIC-EXPERT CONFERENCE

*Climate Change and Preservation of Marine Ecosystems of the Adriatic Sea*  
with international participation

*The main topic: Interdisciplinary approach to considering adaptations, measures, and good practices in resolving issues caused by climate change*

Zadar, September 26<sup>th</sup> to 29<sup>th</sup>, 2024

<https://conference.unizd.hr/jadran-klimatske-promjene>

**GENERAL INFORMATION**

**ORGANIZERS:**

Department of Ecology, Agronomy and Aquaculture, University of Zadar  
Marine Educational Center Pula, Aquarium Pula  
Ruđer Bošković Institute

**CO-ORGANIZERS:**

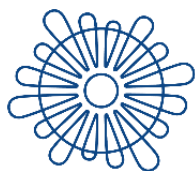
Scientific Council for Adriatic Natural Science Research, Croatian Academy of Science and Arts  
Faculty of Civil Engineering, University of Rijeka  
Faculty of Civil Engineering, University of Zagreb  
Faculty of Architecture, University of Zagreb  
Natural History Museum Rijeka  
Public Institution Natura Jadera  
Public Institution Priroda  
Ponikve Eko Island Krk  
MareMundi Institute

**SUPPORT TO THE CONFERENCE:**

Croatian Academy of Sciences and Arts  
University of Zadar  
Zadar County

**VENUE:**

University of Zadar, Ulica Mihovila Pavlinovića 1, Zadar, Croatia



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## SCIENTIFIC COMMITTEE

Prof. Tatjana Bakran-Petricioli, Department of Biology, Faculty of Science, University of Zagreb,  
**president**

Dr. sc. Nikola Biliškov, Ruđer Bošković Institute, Zagreb; McGill University, Montréal, Canada

Assoc. Prof. Dalibor Carević, Faculty of Civil Engineering, University of Zagreb

Dr. sc. Irena Ciglencečki Jušić, Division for Marine and Environmental Research, Ruđer Bošković  
Institute, Zagreb

Prof. Dario Đerđa, Department of Administrative Law, Faculty of Law, University of Rijeka

Dr. sc. Neven Iveša, Faculty of Natural Sciences, Juraj Dobrila University Pula

Assoc. Prof. Andrej Jaklin, Center for Marine Research Rovinj, Ruđer Bošković Institute

Dr. sc. Silvija Kipson, SeaFan Zagreb

Prof. Mirjana Kovačić, Faculty of Maritime Studies of the University of Rijeka

Prof. Davor Lučić, Institute for Marine and Coastal Research, University of Dubrovnik

Prof. Ljubomir Mišević, Faculty of Architecture, University of Zagreb

Assist. Prof. Slavica Čolak, Department of Ecology, Agronomy and Aquaculture, University of Zadar

Assoc. Prof. Kristina Pikelj, Department of Geology, Faculty of Science, University of Zagreb

Assoc. Prof. Igor Ružić, Faculty of Civil Engineering, University of Rijeka

Dr. sc. Vjekoslav Tičina, Institute of Oceanography and Fisheries, Split

Dr. sc. Ivica Vilibić, Division for Marine and Environmental Research, Ruđer Bošković Institute,  
Zagreb

Dr. sc. Barbara Zorica, Institute of Oceanography and Fisheries, Split

## ORGANIZING COMMITTEE

Assoc. Prof. Tomislav Šarić, Department of Ecology, Agronomy and Aquaculture, University of  
Zadar, **president**

Milvana Arko-Pijevac, Natural History Museum Rijeka

Rina Milošević, Department of Ecology, Agronomy and Aquaculture, University of Zadar

Dr. sc. Milena Mičić, Aquarium Pula

## CONFERENCE SECRETARIAT:

Department of Ecology, Agronomy, and Aquaculture, University of Zadar

e-mail: [conference.jadran.klimatske.promjene@unizd.hr](mailto:conference.jadran.klimatske.promjene@unizd.hr)

Contacts: Tomislav Šarić /+385 95 9046 339/

Milvana Arko-Pijevac /+385 98 323 454/

## CONFERENCE AIM AND PROGRAMME:

The Adriatic Sea is very small in relation to the surface of all seas, constituting only 4.6% of the total surface of the Mediterranean Sea. The Adriatic is a semi-enclosed and shallow sea, extremely sensitive to the increasingly intense impacts of human activities: tourism, fisheries, maritime traffic, mariculture, hydrocarbon exploitation and also to the strong impacts of climate change. With the increase of sea temperature in the Adriatic, various non-indigenous thermophilic species of fish,



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algae, bacteria and gelatinous organisms are more frequently appearing. We are witnessing extremely high sea temperatures, like up to 30°C in July 2022, which has not been recorded until nowadays. Phytoplankton blooms appear earlier and more frequent, and various pathogens cause mass mortalities of organisms. There is also a change in the abundance and the distribution of species within the Adriatic Sea. The changes are visible in sea currents as well as in inflows of freshwater and nutrients from rivers, resulting in salinity changes. The sea level is also rising, and the circulation of water in the Adriatic is changing. Due to human activities, larger amounts of nutrients and various harmful substances with tendency of bioaccumulation and biomagnification reach the sea and become part of the food web.

The Adriatic Sea is a natural resource necessary for life, both, for organisms as for humans. The changes that are taking place impact the economy and the quality of human life. So, the implementation of active protection of the Adriatic Sea is vital and only solution to support sustainable development. However, in order to effectively implement the protection of the Adriatic, it is necessary to understand the connection between the functioning of all sea-land processes and to present scientific knowledge to decision makers at all levels. It is also important to educate the broader community, including the youngest members, about the basic knowledge of the impact of climate change on the sea, processes and living organisms, and potential consequences of our insufficient knowledge of this issue for.

To achieve the awareness of the broader social community about the impact of climate change in combination with other negative human activities on the Adriatic Sea, and in the context of the UN Decade of Ocean Science for Sustainable Development 2021-2030 (Ocean Decade), we plan to organize the V. Scientific-Expert Conference with international participation: *Climate Change and Conservation of the Marine Ecosystems of the Adriatic Sea*. The conference will address the negative impacts - from human activities to climate change - on ecosystems of the Adriatic Sea, as well as possible adaptations to rapid changes occurring in the seas and the necessity of active protection of marine ecosystems.

**The conference's emphasis is on scientific research, educational, socio-economic, and humanistic approach to considering adaptations, measures, and best practices in addressing issues caused by climate change, particularly from the perspective of protecting and conserving marine ecosystems.** The organizers aim to motivate participants to exchange ideas, knowledge, and experiences with the possibility of collaboration on existing projects and initiating new multi- and interdisciplinary projects and to disseminate knowledge to the broader community, especially to local and state-level governance bodies.

Clearly defined conclusions of the Conference on the importance of these topics will be presented to the general public through the media and brochures, with the aim of raising awareness of the need to implement blue and sustainable development.



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The programme of the Conference will include plenary sessions, oral and poster presentations in the field of natural, biotechnical, technical, social and humanistic sciences addressing the following topics:

- Adaptations to rapid changes that are happening in the seas
- Examples of good approaches to climate change, possible adaptations to climate change and measures in practice, blue economy
- Climate change and its impact in the Adriatic Sea
- Marine pollution, including noise and bio pollution with invasive non-indigenous species
- Exploitation and overexploitation of natural marine resources
- Mechanical destruction of marine benthic habitats and benthic communities
- Climate change impact on marine ecosystems in school curricula
- Marine ecosystems and climate change in the legislation of the Republic of Croatia
- Adaptation strategies and measures for preservation of habitats and species of the Adriatic Sea
- Ocean literacy, Citizen science, and Synergy between Science and Arts
- Social ecology and social mechanisms of climate change

**OFFICIAL LANGUAGES OF THE CONFERENCE ARE CROATIAN AND ENGLISH**

#### **BOOK OF ABSTRACTS**

Abstracts of presentations will be published in the Book of Abstracts of the 5<sup>th</sup> Scientific-Expert Conference with international participation: Climate Change and Conservation of the Marine Ecosystems of the Adriatic Sea.

Participants with presentations are requested to submit abstracts with the indicated topic, in Croatian and English, according to the instructions below, by June 15<sup>th</sup>, 2024, to the email address: [conference.jadran.klimatske.promjene@unizd.hr](mailto:conference.jadran.klimatske.promjene@unizd.hr). The final decision on the acceptance of an abstract and the way it will be presented (oral or poster) is made by the Scientific Committee of the Conference.

#### **KEY DATES**

February 15<sup>th</sup>, 2024 - invitation to participants, the First announcement

May 15<sup>th</sup>, 2024 - a reminder for submission

June 15<sup>th</sup>, 2024 - submission of abstracts and final registration

July 15<sup>th</sup>, 2024 - notification about acceptance of presentations and need for revision

September 1<sup>st</sup>, 2024 - deadline for submission of revised abstracts

September 10<sup>th</sup>, 2024 - the Final announcement including the Conference program

September 26<sup>th</sup> to 29<sup>th</sup>, 2024 – the Conference held at the University of Zadar, Zadar, Croatia



University of Zadar  
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**THERE IS NO REGISTRATION FEE**

#### **SOCIAL PROGRAMME**

- Welcome cocktail on Thursday, September 26<sup>th</sup>, 2024, University of Zadar
- Exhibition of the best children's artworks from the International Art Competition "2024 Iserlohn-Essen-Zagreb" for children from 1<sup>st</sup> to 8<sup>th</sup> grade in Croatia and students of Croatian language courses abroad on the theme "Preservation and Protection of Seas and Waters"
- Conference dinner on Friday, September 27<sup>th</sup>, 2024, University of Zadar
- Musical and theatrical performance by the scientific-musical group "Impact factor" IRB
- Professional excursion to Vrana Lake on Sunday, September 29<sup>th</sup>, 2024

#### **ACCOMMODATION FOR PARTICIPANTS**

In Zadar, there are many larger and smaller hotels where accommodation can be found. Since it is the end of September, hotels do not offer special discounts. However, like in any major tourist city, there are plenty of apartments where affordable accommodation can certainly be found at the end of September. We recommend that participants book accommodation in advance.

The website of Hotel A'mare is: <https://hotelamare.com/>

The website of Hotel Kolovare is: <https://hotel-kolovare.com/en/>



University of Zadar  
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## INSTRUCTIONS FOR ABSTRACTS PREPARATION

Abstracts in Croatian and English should be prepared according to appended template which could be found on the web page of the Conference: <https://conference.unizd.hr/jadran-klimatske-promjene> under the Abstracts Submission.

Participants with presentations are requested to submit abstracts with the indicated topic and preferred way of presentation (oral or poster), in Croatian and English, according to the template, by June 15<sup>th</sup>, 2024, to the email address: [conference.jadran.klimatske.promjene@unizd.hr](mailto:conference.jadran.klimatske.promjene@unizd.hr).

## ORAL PRESENTATIONS

Plenary lectures are scheduled to last 30 minutes (including a short discussion within this time framework), and the other oral presentations will last 15 minutes (including a possible short discussion after each presentation within this time framework). Common discussion of oral and poster presentations will be held at the end of each program topic. A final joint discussion is planned after all the presentations have been completed. The time allocated for the presentation have to be strictly respected and in case of exceeding it the presentation will be interrupted and stopped by the moderator. Oral presentations should be prepared as a PowerPoint presentation, preferably in English, and authors decide in which language they will speak (Croatian or English). **Presentations should be sent until September 24<sup>th</sup> 2024, to the e-mail address [conference.jadran.klimatske.promjene@unizd.hr](mailto:conference.jadran.klimatske.promjene@unizd.hr) or on USB memory sticks to the technical service no later than 30 minutes before the official start of the Conference.**

## POSTER PRESENTATIONS

The provided area for displaying the poster is 140 cm high x 90 cm wide; adhesion tape will be provided, and the posters will be displayed for the entire duration of the Conference. **Posters must be put up on Thursday afternoon and taken down on Saturday after the last section.** Posters should contain the title, names of authors and institutions, address and contact.