



**UFRJ**  
UNIVERSIDADE FEDERAL  
DO RIO DE JANEIRO



Ministry of Science and Higher Education of the Russian Federation  
A. O. Kovalevsky Institute of Biology of the Southern Seas of RAS  
Federal University of Rio de Janeiro  
Durban University of Technology

## International Scientific Conference «Adaptation Strategies for Coastal Territories in the Age of Climate Change»,

financially supported by the Ministry of Science and Higher Education of the Russian Federation under grant No. 075-15-2024-657: «Assessment of vulnerability of coastal ecosystems in the tropical zone to climate change for the purpose of adapting of governance nature management» (**VULNECOAST**).

You are invited to participate in the **International Scientific Conference “Adaptation Strategies for Coastal Territories in the Age of Climate Change”**, financially supported by the Ministry of Science and Higher Education of the Russian Federation under grant No. 075-15-2024-657: «Assessment of vulnerability of coastal ecosystems in the tropical zone to climate change for the purpose of adapting of governance nature management» (**VULNECOAST**), to be held from **August 26–28, 2026**, in Sevastopol, hosted by A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS.

The **conference aims** to foster a scientific discussion on critical issues concerning the assessment of vulnerability and the development of adaptation strategies for coastal areas facing global climate change. Key focuses will include a comprehensive analysis of climatic and anthropogenic impacts on coastal ecosystems, the creation of interdisciplinary risk assessment approaches, and the application of advanced methods for modeling and forecasting changes. The discussions will culminate in the development of science-based recommendations and practical tools for sustainable natural resource management and improved resilience of coastal zones to climate challenges.

Our partners:



# Conference Topics:

## **1. Climate Change and its Impact on Coastal Ecosystems:**

- Climate change projections and scenarios for coastal zones.
- Impact of climate change on the biodiversity and functioning of coastal ecosystems.
- Interaction of climatic factors with anthropogenic impact: exacerbation of degradation and vulnerability of coastal zones.
- Interconnection of climate change with other global and regional factors.

## **2. Vulnerability and Risk Assessment of Coastal Territories:**

- Methods and approaches for assessing the vulnerability of coastal ecosystems (including fuzzy logic, Geographic Information Systems, and remote sensing).
- Assessment and modeling of complex risks associated with climate change and anthropogenic impact.
- Analysis of the cumulative impact of anthropogenic factors on the resilience of coastal landscapes and ecosystems.
- Integrated approaches to assessing the socio-economic consequences of climate change and anthropogenic pressures on coastal communities.

## **3. Innovative Adaptation Strategies and Solutions:**

- Nature-based solutions for the protection and restoration of coastal ecosystems.
- Engineering and infrastructural solutions for adaptation, integrated with measures to reduce anthropogenic load and counter the consequences of climate change.
- Economic and financial instruments for adaptation, promoting sustainable natural resource management and minimizing anthropogenic impact.
- Social adaptation and enhancement of local community resilience to the complex impacts of climatic and anthropogenic factors.

## **4. Natural Resource Management and Adaptation Policy:**

- Development and implementation of integrated coastal zone management plans considering climate risks and anthropogenic load.
- Legislative and regulatory frameworks for climate change adaptation and reduction of anthropogenic impact.
- International cooperation and experience exchange in adaptation, with a focus on sustainable coastal zone management.
- The role of various stakeholders in shaping and implementing adaptation strategies aimed at minimizing both climate and anthropogenic risks.

## **5. Digital Technologies and Artificial Intelligence in Coastal Zone Adaptation:**

- Application of artificial intelligence and machine learning for data analysis, modeling, and forecasting of the complex impacts of climate change and anthropogenic pressures.
- Digital platforms and Geographic Information Systems for monitoring, assessment, and decision-making, taking into account climatic and anthropogenic factors.
- Development of digital tools for public engagement and raising awareness of climate and anthropogenic risks.
- Innovative methods for stationary landscape-ecological research utilizing digital technologies for the assessment and management of coastal zones.

**Conference Format:** Participation will be available both on-site and remotely via the Yandex Telemost online platform.

**Presentation Formats:** Plenary and sectional sessions.

**Working Language:** English.

The conference proceedings will be published as an electronic abstract collection with an ISBN. This collection will be available on the conference website, in the IBSS open-access repository ([repository.marine-research.org](https://repository.marine-research.org)), and will be included in the Russian Science Citation Index (RSCI) national bibliographic database.

**Key Dates:**

Application deadline – **by July 1, 2026**

Abstract submission deadline – **by August 1, 2026**

Conference dates – **August 26–28, 2026**

**Publication of materials:**

Instructions for abstract preparation and the submission form can be found on the conference website [adaptconf.ibss-ras.ru](https://adaptconf.ibss-ras.ru).

No revisions to abstracts will be made. The Program Committee reserves the right to decline abstracts that do not comply with the conference topics or the submission guidelines. The Program Committee reserves the right to determine the presentation format (plenary or sectional).

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