

CHRONICLE AND INFORMATION

**“STUDY OF AQUATIC AND TERRESTRIAL ECOSYSTEMS:
HISTORY AND CONTEMPORARY STATE”.**
**INTERNATIONAL SCIENTIFIC CONFERENCE DEDICATED
TO THE 150th ANNIVERSARY OF THE SEVASTOPOL BIOLOGICAL STATION –
A. O. KOVALEVSKY INSTITUTE OF BIOLOGY OF THE SOUTHERN SEAS
AND TO THE 45th ANNIVERSARY OF THE RESEARCH VESSEL
“PROFESSOR VODYANITSKY”**



The international scientific conference was held 13 to 18 September, 2021, on the basis of the Federal Research Center “A. O. Kovalevsky Institute of Biology of Southern Seas of RAS” (IBSS). The conference “Study of Aquatic and Terrestrial Ecosystems: History and Contemporary State” was dedicated to the 150th anniversary of the Sevastopol Biological Station – IBSS and the 45th anniversary of the RV “Professor Vodyanitsky”. It was organized by IBSS and supported by the Ministry of Science and Higher Education of the Russian Federation, the Government of Sevastopol, the Head Production and Technical Enterprise “GRANIT”, the Russian Hydrobiological Society of RAS, the Sevastopol City Branch of the Russian Geographical Society, the Parasitological Society of RAS, and the Sevastopol State University.

More than 370 researchers took part in the conference representing 95 scientific institutions, educational institutions, and departments of Russia, Belarus, Abkhazia, Romania, Spain, Japan, Vietnam, USA, Mexico, Bulgaria, and Switzerland.

At the opening plenary session, eight reports were presented:

1. “Evolution of research of IBSS radiation and chemical biology department on the problem of the interaction of biotic and abiotic matter with radioactive and chemical components of the marine environment” (V. N. Egorov, D. Sc., Academician of RAS, IBSS).
2. “Genetic signatures of historic translocation in contemporary white-tailed deer populations” (Michael Douglas, D. Sc., Fayetteville, USA).
3. “Prospects for the mariculture developing in the Sea of Azov – Black Sea basin” (E. A. Kozhurin, the head of the Sea of Azov – Black Sea branch of the VNIRO).

4. “Aquatic ecotoxicology in solving the problems of assessing the water quality and “health” of ecosystems” (T. I. Moiseenko, D. Sc., Corresponding Member of RAS, V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry of RAS).
5. “Paradoxes of anamniotes’ bioenergetics” (A. A. Soldatov, D. Sc., Prof., IBSS).
6. “Marine aspects of the carbon polygon in the Kaliningrad region” (V. V. Sivkov, PhD, M. O. Ulyanova, PhD, Immanuel Kant Baltic Federal University).
7. “The history of the development of the scientific direction “marine biotechnologies” in IBSS” (V. I. Ryabushko, D. Sc., V. E. Erokhin, PhD, IBSS).
8. “The research vessel “Professor Vodyanitsky”: 45 years of worthy service (anniversary retrospective at the turn of the century)” (O. A. Rylkova, PhD, N. A. Gavrilova, PhD, S. M. Ignatyev, IBSS).

The work of the conference was continued in the following sections:

- “Biodiversity of aquatic and terrestrial ecosystems and its conservation”.
- “Structure, functioning, and dynamics of aquatic and terrestrial ecosystems”.
- “Ecology, physiology, behavior, and biochemistry of hydrobionts”.
- “Molecular biology and genetics of hydrobionts”.
- “Problems of aquatic ecosystem pollution and marine radiochemoecology”.
- “Biological resources, biotechnology, and aquaculture”.
- “Sustainable development of coastal areas”.
- “Methane, its genesis, and participation in biological and geological processes”.

The results were widely presented of fundamental and applied scientific research in biodiversity and functioning of aquatic and terrestrial ecosystems. The prospects were discussed for the practical application of these results for the development of innovative technologies. The problems were highlighted of environmental protection and rational nature management. The aspects were emphasized of the reproduction of biological resources and aquaculture. In total, 220 oral, 70 virtual, and 70 poster reports were presented.

The work of the conference was accompanied by an exhibition of IBSS scientific literature and innovative developments.

Three roundtable discussions were held within the framework of the conference.

At the roundtable discussion “Ways of coordinating the activities of libraries of Russian marine research centers” (moderated by O. A. Akimova, IBSS), issues were highlighted on the establishment of the Association of Scientific Libraries and Information Centers in the field of marine and aquatic sciences in Russia and its further activities.

At the roundtable discussion “Floating universities: opportunities and prospects in the Russian Federation” (moderated by N. E. Ryazanova, PhD, MGIMO University), the best practices were emphasized for the implementation of domestic and international projects, as well as issues of grant and public-private support, regulatory aspects, and problems and prospects for interdepartmental cooperation in planning and carrying out relevant projects.

At the roundtable discussion “Towards Blue Growth. Prospects for the development of the Blue Economy, research, and innovations in the Black Sea region” (moderated by T. I. Andreenko, PhD, IBSS, A. D. Lappo, MIREA – Russian Technological University), the prospects were discussed for international cooperation in the field of the Blue Economy and for the Blue Growth development in the Black Sea region.

Two seminars were held as well: “Management of the state of aquatic ecosystems: theory and practice” (the speaker was A. G. Degermendzhi, D. Sc., Academician of RAS, Institute of Biophysics of SB RAS) and “General ecological problems in the context of ecological biophysics” (the speaker was S. I. Bartsev, D. Sc., Institute of Biophysics of SB RAS).

High level of the works, interesting oral and poster presentations, and lively discussion of the key scientific issues contributed to creating favorable atmosphere, exchanging views and information, broadening horizons and scientific contacts, and deepening understanding of problems and prospects for studying aquatic and terrestrial ecosystems.

The research results presented at the conference are published in the book of abstracts. It is uploaded in the IBSS Open Access Repository (<https://doi.org/10.21072/978-5-6044865-5-9>) and in the national bibliographic database Russian Science Citation Index (<https://elibrary.ru/item.asp?id=46714524>).

**«ИЗУЧЕНИЕ ВОДНЫХ И НАЗЕМНЫХ ЭКОСИСТЕМ:
ИСТОРИЯ И СОВРЕМЕННОСТЬ».**

**МЕЖДУНАРОДНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ, ПОСВЯЩЁННАЯ
150-ЛЕТИЮ СЕВАСТОПОЛЬСКОЙ БИОЛОГИЧЕСКОЙ СТАНЦИИ —
ИНСТИТУТА БИОЛОГИИ ЮЖНЫХ МОРЕЙ ИМЕНИ А. О. КОВАЛЕВСКОГО
И 45-ЛЕТИЮ НИС «ПРОФЕССОР ВОДЯНИЦКИЙ»**

Международная научная конференция, посвящённая 150-летию Севастопольской биологической станции — Института биологии южных морей имени А. О. Ковалевского и 45-летию НИС «Профессор Водяницкий», прошла с 13 по 18 сентября 2021 г. В работе конференции приняли участие более 370 исследователей, представлявших 95 научных, образовательных и ведомственных учреждений. Представлено 220 очных, 70 дистанционных и 70 постерных докладов.



Participants of the conference “Study of Aquatic and Terrestrial Ecosystems: History and Contemporary State” (2021)