

## GLOBAL PROBLEMS OF THE WORLD OCEAN: RESULTS OF THE XI ALL-RUSSIAN SCHOOL-SEMINAR FOR YOUNG SCIENTISTS



The XI All-Russian school-seminar for young scientists, students, and postgraduates “Modern hydrobiology: Global problems of the World Ocean”, organized by IBSS Council of young scientists, took place on 28 September – 02 October 2020. Since 2001, the Institute has held 11 schools-seminars for young scientists. However, this year alone, all the events took place online: on the platform <https://webinar.ru/> and on the VK social network.

In the VK group, sessions of oral and poster presentations were organized for the participants to discuss global problems of the World Ocean and possible ways of solving them. The organizing committee of the school-seminar assessed the relevance and scale of scientific research, as well as the presentation level. The first place among oral presentations was taken by the report of A. A. Tkachuk (Sevastopol) “Influence of plastic decomposition products in the ocean (phthalates) on the functional parameters of the Black Sea mussel (*Mytilus galloprovincialis*)”. The first place among posters was shared by reports of A. I. Ilyasova (Kazan) “Additional nidamental glands of three species of the genus *Rossia* (Cephalopoda, Sepiolida) from the Barents Sea” and A. A. Paraskiv (Sevastopol) “Study of sedimentation processes in the Black Sea using plutonium radioisotopes”.

Based on the results of the work of the sections, a book of proceedings was prepared. It is uploaded in the national bibliographic database Russian Science Citation Index (<https://www.elibrary.ru/item.asp?id=44077021>), as well as in IBSS Open Access Repository (<https://doi.org/10.21072/978-5-6044865-2-8>). It includes materials of reports, revealing various aspects of modern marine and freshwater hydrobiology and hydroecology. The publications of young scientists from Russia and Uzbekistan highlight the results of scientific research in the field of dynamics of number of hydrobionts and peculiarities of their life cycles. Some works consider mechanisms of hydrobiont adaptation to abiotic and anthropogenic environmental factors, as well as hydrobiology application areas.

Online participants got acquainted with the research of leading specialists on fundamental bases of hydrobionts adaptation to environmental changes, problems of conservation and rational use of marine biological resources, perspective directions of marine biotechnology and aquaculture, and methodology

and organization of operational control of Black Sea biota and coastal ecosystems. Online master classes were organized by IBSS Council of young scientists in every direction presented. The participants got acquainted with the application of flow cytometry and chromatographic and molecular-genetic methods in hydrobiological studies, as well as with carotenoid production technology. Lectures are available even after the end of the school-seminar, since using the platform <https://webinar.ru/> made it possible to record all the reports and to post them on the VK social network.

Thus, the restrictions, imposed by the distance format, did not affect the process of scientific communication during the school-seminar. Moreover, online broadcasts organization and reports recording can increase the number of participants and the quality of offline conferences.

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### **ГЛОБАЛЬНЫЕ ПРОБЛЕМЫ МИРОВОГО ОКЕАНА: ИТОГИ XI ВСЕРОССИЙСКОЙ ШКОЛЫ-СЕМИНАРА ДЛЯ МОЛОДЫХ УЧЁНЫХ**

XI Всероссийская школа-семинар для молодых учёных, студентов и аспирантов «Современная гидробиология: глобальные проблемы Мирового океана», организованная советом молодых учёных ФИЦ ИнБЮМ, прошла с 28 сентября по 2 октября 2020 г. Все мероприятия состоялись в онлайн-формате. Участники ознакомились с исследованиями по фундаментальным основам адаптации гидробионтов к изменениям окружающей среды, а также по проблемам сохранения и рационального использования морских биологических ресурсов, перспективным направлениям морской биотехнологии и аквакультуры, методологии и организации оперативного контроля состояния биоты Чёрного моря и прибрежных экосистем. В мероприятиях приняло участие более 30 докладчиков и слушателей. По результатам работы школы-семинара подготовлен сборник, размещённый в национальной библиографической базе данных РИНЦ.