

freshwater science conference 2024

freshwater science conference 2024 is set to be a pivotal event for researchers, environmentalists, policymakers, and industry professionals dedicated to the study and preservation of freshwater ecosystems. This conference offers a comprehensive platform to explore the latest scientific research, innovative technologies, and emerging challenges in freshwater science. Attendees will have opportunities to engage with leading experts, participate in workshops, and contribute to discussions on topics such as water quality, aquatic biodiversity, watershed management, and climate change impacts. The event also emphasizes interdisciplinary collaboration, fostering connections between hydrologists, ecologists, chemists, and engineers. This article provides an in-depth overview of the freshwater science conference 2024, highlighting its themes, key sessions, notable speakers, and practical information for participants. The following sections will guide readers through the conference's objectives, agenda, and significance in advancing freshwater research and policy.

- Overview of Freshwater Science Conference 2024
- Key Themes and Topics
- Featured Speakers and Experts
- Conference Sessions and Workshops
- Networking and Collaboration Opportunities
- Registration and Participation Details

Overview of Freshwater Science Conference 2024

The freshwater science conference 2024 is organized to bring together a diverse community of stakeholders dedicated to advancing knowledge and solutions for freshwater environments. This event typically attracts hundreds of participants from academia, government agencies, non-governmental organizations, and industry sectors. It serves as a hub for presenting cutting-edge research findings, discussing policy implications, and sharing best practices for freshwater management. The conference spans several days and includes keynote presentations, panel discussions, poster sessions, and field trips to local water bodies. By fostering interdisciplinary dialogue, the conference aims to address complex freshwater challenges in a holistic manner.

Objectives and Goals

The primary objectives of the freshwater science conference 2024 include promoting scientific excellence, encouraging collaboration across disciplines, and translating research into actionable policies. Another key goal is to raise awareness of critical freshwater issues such as pollution, habitat degradation, invasive species, and the effects of climate variability. The conference also strives to support early-career scientists through dedicated sessions and mentoring opportunities, ensuring the continued growth of freshwater science expertise.

Historical Context

The freshwater science conference series has a rich history of fostering innovation and partnerships since its inception. Each year, the event has grown in scope and influence, reflecting the increasing importance of freshwater resources globally. The 2024 edition builds on past successes by integrating new scientific advancements and addressing emerging environmental challenges with greater urgency.

Key Themes and Topics

The freshwater science conference 2024 covers a broad array of themes reflecting the complexity of freshwater ecosystems and their management. These themes are designed to provide comprehensive coverage of scientific, technical, and policy-related issues affecting freshwater resources worldwide.

Water Quality and Pollution Control

One of the central themes focuses on water quality assessment and pollution mitigation strategies. Topics include nutrient loading, chemical contaminants, microplastics, and emerging pollutants. Presentations will explore advanced monitoring techniques, remediation technologies, and regulatory frameworks aimed at improving water quality in rivers, lakes, and groundwater systems.

Aquatic Biodiversity and Conservation

This theme addresses the conservation of freshwater species and habitats, emphasizing the importance of biodiversity for ecosystem health. Discussions cover endangered species protection, habitat restoration, invasive species management, and the role of freshwater ecosystems in supporting ecological services and human well-being.

Hydrology and Watershed Management

Hydrological processes and watershed-scale management are critical components of freshwater science. Sessions will examine water cycle dynamics, streamflow modeling, land use impacts, and integrated watershed management approaches that balance ecological integrity with human demands.

Climate Change Impacts on Freshwater Systems

Given the significant influence of climate change on water availability and quality, this theme explores how shifting precipitation patterns, temperature rise, and extreme weather events affect freshwater ecosystems. Research on adaptation and resilience strategies will be a major focus to inform sustainable freshwater resource management under changing climatic conditions.

Featured Speakers and Experts

The freshwater science conference 2024 boasts an impressive lineup of keynote speakers and session leaders who are recognized authorities in freshwater research and management. These experts bring diverse perspectives from around the globe, enriching the discourse with their insights and experience.

Keynote Presenters

Keynote speakers typically include renowned scientists, policy makers, and environmental leaders who address overarching themes and future directions in freshwater science. Their presentations set the tone for the conference and highlight critical challenges and innovative solutions.

Panelists and Workshop Facilitators

In addition to keynote speakers, the conference features panels and workshops led by specialists in hydrology, ecology, chemistry, environmental engineering, and policy analysis. These sessions encourage interactive dialogue and skill-building among attendees, fostering practical knowledge exchange.

Conference Sessions and Workshops

The structure of the freshwater science conference 2024 is designed to maximize learning and engagement through a variety of session formats. These include oral presentations, poster exhibitions, interactive workshops, and field activities.

Scientific Presentations

Oral presentations allow researchers to share recent findings with peers, followed by question-and-answer segments to deepen understanding. Poster sessions provide opportunities for informal discussions and networking around specific study results and methodologies.

Hands-on Workshops

Workshops focus on skill development and applied techniques such as water sampling, data analysis, modeling tools, and restoration methods. These sessions are often led by experienced practitioners and offer practical takeaways for participants to implement in their own work.

Field Trips and Site Visits

Field activities enable attendees to observe freshwater environments firsthand and assess ongoing management projects. These excursions illustrate real-world applications of conference topics and promote experiential learning.

Networking and Collaboration Opportunities

The freshwater science conference 2024 places significant emphasis on fostering connections among participants. Building professional networks and collaborative partnerships is essential for advancing freshwater research and policy implementation.

Networking Events

Scheduled social receptions, coffee breaks, and informal gatherings provide venues for attendees to meet colleagues, establish new contacts, and exchange ideas. Such interactions often lead to future research collaborations and joint initiatives.

Collaborative Projects and Partnerships

The conference encourages the formation of multidisciplinary teams to tackle complex freshwater challenges. It facilitates discussions on funding opportunities, data sharing, and joint publications, strengthening the global freshwater science community.

Registration and Participation Details

Participation in the freshwater science conference 2024 requires prior registration, with options available for in-person and virtual attendance. Early registration is recommended due to limited capacity and demand from international participants.

Registration Process

The registration process is straightforward, requiring submission of personal information and selection of attendance type. Discounts are often available for students, early-career researchers, and members of sponsoring organizations.

Participation Fees and Benefits

Fees cover access to all conference sessions, workshop materials, and networking events. Additional benefits may include conference proceedings, certificates of attendance, and opportunities to present research or lead sessions.

Venue and Accommodation

The conference venue is typically selected for its accessibility and proximity to natural freshwater sites, enhancing the overall experience. Accommodation options range from hotels to university dormitories, often with negotiated rates for attendees.

Summary of Important Dates and Deadlines

Timely planning is crucial to fully benefit from the freshwater science conference 2024. Key dates include abstract submission deadlines, early bird registration periods, and notification of accepted presentations.

1. Call for abstracts opens: January 15, 2024
2. Abstract submission deadline: March 31, 2024
3. Notification of acceptance: May 15, 2024
4. Early bird registration deadline: June 30, 2024
5. Conference dates: September 10–14, 2024

Frequently Asked Questions

What is the Freshwater Science Conference 2024?

The Freshwater Science Conference 2024 is an annual event that brings together scientists, researchers, and policymakers to discuss the latest research, innovations, and challenges in freshwater ecosystems and water resource management.

When and where will the Freshwater Science Conference 2024 be held?

The Freshwater Science Conference 2024 is scheduled to take place from October 14-18, 2024, in Madison, Wisconsin, USA.

Who should attend the Freshwater Science Conference 2024?

The conference is ideal for freshwater scientists, ecologists, environmental managers, students, policymakers, and anyone involved in freshwater research and conservation.

What are the main themes of the Freshwater Science Conference 2024?

Key themes include freshwater biodiversity, water quality and pollution, climate change impacts on freshwater systems, restoration ecology, and innovative monitoring technologies.

How can I submit an abstract for the Freshwater Science Conference 2024?

Abstract submissions for oral and poster presentations can be made through the official conference website, typically with a deadline several months before the event.

Are there any workshops or training sessions at the Freshwater Science Conference 2024?

Yes, the conference offers various workshops and training sessions focused on field techniques, data analysis, environmental policy, and emerging research methods.

Is there a virtual attendance option for the Freshwater Science Conference 2024?

The organizers have announced a hybrid format that includes virtual attendance options to accommodate

participants who cannot travel to the venue.

What networking opportunities will be available at the Freshwater Science Conference 2024?

Networking events include social mixers, roundtable discussions, poster sessions, and special interest group meetings to foster collaboration among participants.

How can students benefit from attending the Freshwater Science Conference 2024?

Students can gain exposure to cutting-edge research, present their own work, connect with experts, and explore career opportunities through dedicated sessions and mentorship programs.

Where can I find more information and register for the Freshwater Science Conference 2024?

Detailed information, registration details, and updates can be found on the official conference website at www.freshwaterscience2024.org.

Additional Resources

1. Advances in Freshwater Science: Proceedings of the 2024 International Conference

This comprehensive volume compiles the latest research presented at the Freshwater Science Conference 2024. Covering topics from aquatic ecology to water quality management, it offers insights into emerging trends and innovative methodologies. Researchers and practitioners alike will find valuable data and case studies addressing global freshwater challenges.

2. Innovations in Freshwater Ecosystem Management: Insights from the 2024 Conference

Focusing on sustainable management practices, this book highlights cutting-edge approaches discussed during the 2024 conference. It explores ecosystem restoration, biodiversity conservation, and the integration of technology in monitoring freshwater habitats. The text is essential for environmental scientists and policy makers aiming to protect freshwater resources.

3. Climate Change and Freshwater Resources: Perspectives from the 2024 Symposium

This edition examines the impacts of climate change on freshwater systems as presented at the 2024 symposium. It includes research on hydrological shifts, species adaptations, and mitigation strategies to safeguard water availability. The book serves as a critical resource for understanding future challenges and resilience planning.

4. Freshwater Biodiversity: Trends and Threats Discussed at the 2024 Conference

Highlighting the rich diversity of freshwater organisms, this book addresses the threats posed by pollution, invasive species, and habitat loss. Contributions from leading scientists provide a detailed overview of conservation efforts and monitoring techniques. It is an invaluable reference for biologists and conservationists working in freshwater environments.

5. Water Quality and Pollution Control: Insights from Freshwater Science 2024

This publication delves into the latest research on freshwater contamination and mitigation measures presented at the 2024 conference. Topics include chemical pollutants, microbial threats, and emerging contaminants. The book offers practical solutions and policy recommendations for ensuring safe and clean freshwater supplies.

6. Hydrology and Watershed Management: Advances from the 2024 Freshwater Conference

Covering hydrological processes and watershed management strategies, this book reflects the latest scientific findings shared at the conference. It emphasizes integrated approaches for managing water flow, sediment transport, and land-use impacts. Water resource managers and hydrologists will find this a key resource for effective watershed stewardship.

7. Freshwater Science and Technology: Breakthroughs Presented in 2024

This book captures technological innovations showcased at the 2024 Freshwater Science Conference, including remote sensing, bio-monitoring tools, and data analytics. It discusses how these advancements enhance research accuracy and resource management. Scientists and engineers will benefit from the practical applications and case studies included.

8. Socioeconomic Dimensions of Freshwater Conservation: Discussions from 2024

Exploring the human and economic factors influencing freshwater conservation, this volume presents interdisciplinary research from the conference. It covers community engagement, policy frameworks, and the economic valuation of freshwater ecosystems. The book is essential for stakeholders involved in sustainable water governance.

9. Emerging Contaminants in Freshwater Systems: Findings from the 2024 Conference

Focusing on newly identified pollutants such as pharmaceuticals and microplastics, this book outlines recent discoveries and monitoring techniques. The 2024 conference findings highlight the risks these contaminants pose to aquatic life and human health. It offers guidance on detection, regulation, and remediation strategies for researchers and environmental professionals.

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freshwater science conference 2024: Aquatic Sciences in the Tropics B.B. Jana, 2025-03-13 The tropical environment is unique due to its geographic location, climatic features, intense solar radiation, high temperature, heavy precipitation, less seasonal variation, enhanced food and productivity, faster metabolism, ecological dynamics and co-evolutionary processes that favor niches for specialized species. It also provides the richest biodiversity with endemic fish species that support millions of people in rural areas. This book *Aquatic Sciences in the Tropics: Inland Waters, Domain and Nutrient Geochemistry* comprises nine primary chapters that address various topics. Chapter 1 covers topics such as Water as a Substance, Water as a Medium, Fundamentals of Global Water Distribution and Hydrologic Cycle, Economics of Water and Challenges; Chapter 2: The Environment, Tropical Environment, Concept of Biosphere and Aquatic Biome, Tropical Aquatic Bionetwork, Tropical Limnology; Chapter 3: Origin of Lakes, General Classification of Lakes, Tropical Lakes, Lake Morphometry, Morpho-Edaphic Index, Trophic State Index of Lakes, Wetlands, Mangroves; Chapter 4: Concept of Stream Order, Streams and Rivers, The River Continuum Concept, Physico-chemical and Biological Features of Streams, Adaptations of Hill Stream Fishes; Chapter 5: Light as an Entity, Thermal Regime, Thermal Stratification, Lake Mixing, Turnover and Circulation; Chapter 6: Sources of CO₂ in Inland Waters, Hydrogen Ion Concentration, The CO₂-CO₃-HCO₃ System, Alkalinity, Hardness; Chapter 7: Dissolved Oxygen, Oxidation and Reduction Potential; Chapter 8: Total Dissolved Solids, Dissolved Organic Carbon; Chapter 9: Origin of Atmospheric Gases, Carbon and Carbon Cycle, Nitrogen, Nitrogen Fixation, Ammonification, Nitrification and Comammox, Denitrification and Anammox, Phosphorus and Sulphur. It is anticipated that the academic community, students, teachers, instructors, researchers, colleges, universities, institutions, administrators, policy makers, public libraries and the general public with an interest in these topics will find this text to be a valuable source of information and provide in-depth knowledge.

freshwater science conference 2024: Aquatic Ecosystems Monitoring Prem Chandra Pandey, Prashant K. Srivastava, Sanjeev Kumar Srivastava, 2024-11-29 This book collates traditional and modern applications of remote sensing in aquatic ecosystem monitoring. It covers conventional assessment methods like sampling, surveying, macroinvertebrates, and chlorophyll estimation for aquatic ecosystem health assessment. Advanced remote sensing technology provides timely spectral information for quantitative and qualitative assessment of water quality, shoreline changes, coral bleaching, and vegetation monitoring. The book covers different types of aquatic ecosystems like wetlands, rivers, lakes, saline, and the brackish lake. It also: Reviews the latest applications of remote sensing in the monitoring and assessment of aquatic ecosystems Includes traditional methods like cartography, sampling, surveying, phytoplankton assessment, river interlinking, and chlorophyll estimation Discusses the application of multi-source data and machine learning in monitoring aquatic ecosystems Discusses aquatic ecosystem management, services, threats, and sustainability Explores challenges, opportunities, and prospects of future Earth observation applications for aquatic ecosystem monitoring The book discusses space-borne, airborne, and drone geospatial data. The parts broadly cover aquatic ecosystem monitoring, vegetation management, advanced modeling practices, and challenges. It is meant for scientists, professionals, and

policymakers working in environmental sciences, remote sensing, and geology.

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freshwater science conference 2024: Genetic and Evolutionary Computing Jeng-Shyang Pan, Thi Thi Zin, Tien-Wen Sung, Jerry Chun-Wei Lin, 2025-02-07 This book contains accepted papers presented at ICGEC 2024, the 16th International Conference on Genetic and Evolutionary Computing, held from August 28-29, 2024 in Miyazaki, Japan. The conference is intended as an international forum for the researchers and professionals in all areas of genetic and evolutionary computing. And the readers may know the up-to-date techniques of the mentioned topics, including digital transformation, machine learning and data analysis, meta-heuristic optimization algorithms, computer vision, and artificial intelligence of things (AIoT), which can help them to bring new ideas or apply the designed approaches from the collected papers to their professional jobs.

freshwater science conference 2024: Innovations in Renewable Energies Offshore Carlos Guedes Soares, Shan Wang, 2024-11-11 The contribution of renewable energy offshore to the total energy production is increasing, as is the interest in this topic. Innovations in Renewable Energies Offshore includes the papers presented at the 6th International Conference on Renewable Energies Offshore (RENEW 2024, 19-21 November, 2024, Lisbon, Portugal), and aims to contribute to the knowledge about the developments and experience obtained in concept development, design and operation of such devices. The contributions cover a wide range of topics, including: Resource assessment Wind Energy Wave Energy Tidal Energy Photovoltaic Energy Hydrogen Offshore Multiuse Platforms PTO design Economic assessment Materials and structural design Maintenance Vessels Innovations in Renewable Energies Offshore will be of interest to academics and professionals involved or interested in applications of renewable energy resources offshore.

freshwater science conference 2024: Review of the state of world marine fishery resources - 2025 Food and Agriculture Organization of the United Nations, Sharma, R. (ed.); Barange, M. (ed.); Agostini, V. (ed.); Barros, P. (ed.); Gutierrez, N.L. (ed.); Vasconcellos, M. (ed.); Fernandez Reguera, D. (ed.); Tiffay, C. (ed.); Levontin, P. (ed.), Marine fisheries are crucial to the food security and nutrition, economy and overall well-being of coastal communities. Maintaining the long-term prosperity and sustainability of marine fisheries is therefore not only ecologically significant, but has social, economic and political importance. The aim of this report is to provide FAO Members, national and regional policymakers, academia, civil society, fishers and managers of world fishery resources with a comprehensive, objective and global review of the state of the living fishery resources of the oceans. This document updates the regular reviews of the state of the world's marine fishery resources, based on stock assessments and complementary information up to 2023, and official catch statistics through to 2021. The introductory and methodology chapters provide the wider context in which this updated edition of the Review of the state of world marine fishery resources was prepared, highlighting evolutions in the landscape of fisheries and stock assessment capacities since the previous edition of this report in 2011. The methodology section gives a detailed overview of the updated FAO process for providing the state of stocks index, which involved a highly participatory and transparent process (including 19 regional workshops and consultations, with around 650 in-person experts representing 92 countries and 200 organizations). Importantly, the total number of stocks in the assessments included in this report has significantly increased to 2 570. Discussions on major trends and changes at the global level are explored in a dedicated global overview chapter, while more detailed information on the status of stocks for each of the FAO Major Fishing Areas is set out in dedicated regional chapters. Special sections address the global issue of tunas and tuna-like species, and other high-profile fisheries such as deep-sea fisheries in areas beyond national jurisdiction, and highly migratory sharks. Summary tables are provided for each species grouping used in this assessment, indicating the number of stocks included, their sustainability classification between overfished, maximally sustainably fished, and underfished categories, and the number of stocks classified into tiers based on the availability and quality of information and thus the assessment methods used.

freshwater science conference 2024: Proceedings of the 10th International Conference

on Water Resource and Environment Chih-Huang Weng, 2025-04-25 This book comprises selected papers presented at the 10th International Conference on Water Resource and Environment (WRE2024) which is held in Hong Kong, December 15-18, 2024. The book discusses a wide range of topics, including Hydraulics, Hydrology and Water Resources Engineering, Environmental Engineering and Sustainability, Indoor Environments, Risk Analysis, Safety and Security, Ocean and Offshore Engineering; Ships and Floating Structures, Coastal Engineering. The chapters in this book are very useful to professionals and academicians for improving their work practice.

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freshwater science conference 2024: Futureproofing Engineering Education for Global Responsibility Michael E. Auer, Tiia Rüttnann, 2025-03-19 This book contains papers in the fields of: Virtual and augmented learning. Games in engineering education. Social aspects of digitalization. Technical teacher training. Accessible learning and technologies. Dance of data in educational science and practice. Engineering education for production and service structures of the future. Innovative approaches to STEAM education and music therapy through emerging technologies. We are currently witnessing a significant transformation in the development of education on all levels and especially in post-secondary and higher education. To face these challenges, higher education must find innovative and effective ways to respond in a proper way. Changes have been made in the way we teach and learn, including the massive use of new means of communication, such as videoconferencing and other technological tools.

freshwater science conference 2024: Foundations of Stream and River Ecology Wyatt F. Cross, Jonathan P. Benstead, Amy M. Marcarelli, Ryan A. Sponseller, 2024-12-17 For students and practitioners, a comprehensive primer on the key literature in stream and river ecology. The study of streams and rivers combines ecology, chemistry, hydrology, and geology to reveal the factors that control the biological diversity and functioning of these unique ecosystems. Although stream ecology is a relatively young discipline, foundational papers published over the past half century have shaped our current understanding of these ecosystems and have informed our efforts to manage and protect them. Organized by topics such as the physical template, community structure, food webs, ecosystem energetics, and nutrient dynamics, the chapters of this book offer summaries of the key literature, historical and contextual information, and insightful discussions of how past research has influenced present studies and may shape future work.

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freshwater science conference 2024: Mana Moana Robert Pouwhare, Carla Houkamau, 2025-01-01 From the arrival of Maori in Aotearoa to the present day, kaimoana has always been integral to Maori identity – a vital source of sustenance and mana for hapu and iwi, shaping the Maori economy and culture. Mana Moana chronicles Maori fisheries in Aotearoa, linking ancient purakau of Polynesian navigators to contemporary issues of sustainability and economic

development. It introduces readers to pre-colonial fishing methods, inter-tribal trade routes, and accounts from early European explorers who marvelled at Maori fishing prowess, and then moves on to detail the enduring struggle for Maori fishing rights, the 1992 Treaty of Waitangi Fisheries Settlement, and the creation of Aotearoa Fisheries Limited, now Moana New Zealand. Owned by fifty-eight iwi shareholders, Moana New Zealand is a unique business guided by te ao Maori values and committed to both commercial success and sustainability. Weaving together history, matakauranga, business, and politics, Mana Moana offers readers deep insight into Maori fisheries and the realisation of mana Maori within a large-scale commercial enterprise.

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freshwater science conference 2024: Annotated bibliography of the pike, *Esox lucius* E.J. Crossman, J.M. Casselman, 2024-02-12

freshwater science conference 2024: *Australian Alps* Deirdre Slattery, 2025-04-01 Australian Alps is a fascinating guide to Australia's highest mountains and the extraordinary diversity, rich heritage and precious resource of the Australian Alps National Parks. Covering Kosciuszko, Alpine and Namadgi National Parks, author Deirdre Slattery explores the stories of the First Peoples, scientists, historians and conservationists who have worked to protect, raise awareness of and share their knowledge of this unique and important area. This fully revised third edition details the mountains' remarkable and unique natural features; how the rocks, soils, plants and animals have evolved over time; and the dependence of many Australians on their most valuable function - water catchment. Extensively illustrated with both historic and contemporary photographs, Australian Alps is an essential guide for anyone visiting or interested in this spectacular region.

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different wetland stakeholders from the global north and south, to present an assessment of our current understanding of wetlands, their environmental significance, and their place in society and policy. A recurring theme of the book is an exploration of how our current knowledge of wetlands, that is often fragmented along traditional disciplinary lines, can be brought together to enable a more integrated, interdisciplinary and social-ecological conceptualisation that aligns more closely with real-world complex challenges, and which offers new directions in wetland management for sustainable development. This handbook will be essential reading for students and scholars of wetland management, environmental science, water resource management, conservation ecology, environmental humanities and sustainable development.

freshwater science conference 2024: *The International Conference on Frontiers in Materials Science and Engineering (FMSE)* Ali Alnaser, Mohammad Al-Sayah, Maen Alkhader, Mehmet Egilmez, Rami Hawileh, Said Sakhi, 2025-05-06 Selected peer-reviewed extended articles based on abstracts presented at the International Conference on Frontiers in Materials Science and Engineering (FMSE 2024) Aggregated Book

freshwater science conference 2024: Санитарно-биологические исследования прибрежных акваторий Крыма: современное состояние и многолетние тренды Коллектив авторов, 2025-08-27 Монография посвящена памяти профессора, доктора биологических наук Олега Глебовича Миронова (1933–2022), основоположника направления «морская санитарная гидробиология». В книге изложены результаты санитарно-биологических исследований в прибрежных акваториях Крымского полуострова (Черноморский и Азовский сектора), проводимых в первые два десятилетия XXI века, а также рассмотрены многолетние тренды по ряду показателей состояния прибрежных экосистем. Особое внимание уделено анализу физико-химических показателей донных осадков, характеристике микробентоса и макрозообентоса. Эти сведения дополнены данными по изучению митилидного обрастания гидротехнических сооружений в условиях загрязнённых бухт, реакции рыб донно-придонного комплекса на загрязнение прибрежных акваторий. Издание предназначено для учёных в области естественных наук, специалистов, работающих в сфере охраны водного бассейна, студентов, аспирантов и магистров; педагогов среднего и высшего профессионального образования.

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