

ices journal of marine science

ices journal of marine science is a leading scientific publication dedicated to advancing the understanding of marine ecosystems, oceanography, and fisheries science. Established by the International Council for the Exploration of the Sea (ICES), this journal publishes cutting-edge research that informs sustainable management and conservation of marine resources. The journal covers a broad spectrum of topics, including marine biology, ecology, environmental science, and climate change impacts on ocean systems. Researchers, policymakers, and marine professionals rely on the ices journal of marine science for peer-reviewed articles that contribute to evidence-based decision-making. This article provides a comprehensive overview of the journal's scope, history, publication process, and its role in shaping marine science globally. Following this introduction, a detailed table of contents outlines the main sections covered in this article.

- Overview and History of the ICES Journal of Marine Science
- Scope and Subject Areas Covered
- Editorial Process and Publication Standards
- Impact and Influence in Marine Science
- Access and Submission Guidelines
- Future Trends and Developments

Overview and History of the ICES Journal of Marine Science

The ices journal of marine science has a rich history that dates back to its inception as part of the International Council for the Exploration of the Sea's efforts to disseminate scientific knowledge. Since its establishment, the journal has evolved to become a prestigious platform for marine research. It is well-regarded for publishing high-quality, peer-reviewed articles that address critical issues in marine ecosystems and resource management. The journal's commitment to scientific rigor and relevance has made it a cornerstone publication within the marine science community.

Origins and Evolution

The journal originated in the early 20th century alongside the formation of ICES, an organization dedicated to facilitating cooperation among marine scientists and fisheries managers. Over the decades, the journal has expanded its scope and adapted to emerging scientific challenges such as climate change, marine pollution, and biodiversity loss. This evolution reflects the growing complexity and interdisciplinary nature of marine science today.

Role within the ICES Organization

ICES serves as a global network of marine scientists, and the journal acts as its primary publication outlet. It supports ICES' mission by disseminating scientific findings that underpin effective marine governance and conservation policies. The journal's alignment with ICES ensures it remains at the forefront of marine research priorities and international collaboration.

Scope and Subject Areas Covered

The ices journal of marine science encompasses a wide range of disciplines that contribute to understanding marine environments. Its interdisciplinary approach allows for comprehensive coverage of marine science topics, addressing biological, chemical, physical, and social dimensions of the oceanic realm.

Marine Ecology and Biology

This area includes studies on marine species diversity, population dynamics, ecosystem structure, and trophic interactions. Research addressing the effects of environmental variability on marine organisms and communities is frequently featured.

Oceanography and Environmental Science

Articles often explore ocean currents, temperature regimes, chemical composition, and the impact of anthropogenic stressors such as pollution and climate change. The integration of physical and chemical oceanography with biological responses is a hallmark of the journal's content.

Fisheries Science and Resource Management

The journal publishes research on fish stock assessments, sustainable harvesting strategies, and the socioeconomic aspects of fisheries. Emphasis is placed on balancing exploitation with conservation to ensure the long-term viability of marine resources.

Emerging Topics in Marine Science

New research areas such as marine spatial planning, ecosystem-based management, and the use of advanced technologies like remote sensing and genomics are increasingly represented, reflecting the journal's commitment to innovation.

Editorial Process and Publication Standards

Maintaining high editorial standards is central to the credibility and impact of the ices journal of marine science. The journal employs a rigorous peer-review process designed to uphold scientific quality, relevance, and originality.

Manuscript Submission and Review

Authors submit their manuscripts through a structured online system, where submissions undergo initial editorial screening. Qualified experts in relevant fields conduct double-blind peer reviews, assessing the methodological soundness, data integrity, and contribution to the field.

Ethical Guidelines and Transparency

The journal adheres strictly to ethical standards regarding authorship, conflict of interest, and research integrity. Transparency in data reporting and reproducibility is encouraged to enhance the reliability of published findings.

Publication Frequency and Article Types

The ices journal of marine science publishes on a regular schedule, including original research articles, review papers, technical notes, and special issues focusing on topical themes. This diversity caters to a broad readership and promotes knowledge dissemination.

Impact and Influence in Marine Science

The journal holds a prominent position in the scientific community, evidenced by its citation metrics and widespread usage among researchers, managers, and policymakers. Its influence extends beyond academia to practical applications in marine conservation and resource management.

Contribution to Policy and Management

Scientific evidence published in the journal often informs international policy frameworks, fisheries regulations, and environmental protection measures. This bridging of science and policy enhances the journal's real-world impact.

Global Reach and Collaboration

With contributions from scientists worldwide, the journal fosters international collaboration and knowledge exchange. Its broad geographic scope includes studies from diverse marine environments, promoting a comprehensive understanding of global ocean issues.

Recognition and Rankings

The ices journal of marine science consistently ranks among the top journals in marine and environmental sciences. It is indexed in major databases, ensuring visibility and accessibility to a global audience.

Access and Submission Guidelines

Understanding the journal's policies on access and manuscript preparation is crucial for prospective authors and readers. The ices journal of marine science strives to balance accessibility with sustainability.

Subscription and Open Access Options

While traditionally subscription-based, the journal offers open access options to increase the availability of research outputs. This hybrid model supports both widespread dissemination and financial viability.

Author Requirements and Formatting

Manuscripts must adhere to specific formatting guidelines, including structured abstracts, standardized citation styles, and clear presentation of data. Authors are encouraged to provide supplementary materials such as datasets or code when relevant.

Peer Review and Publication Timeline

The journal aims for efficient processing times to facilitate timely dissemination of research. Authors receive feedback from reviewers and editors, with opportunities for revision prior to final acceptance.

Future Trends and Developments

The ices journal of marine science continues to evolve in response to emerging scientific challenges and technological advances. Anticipated developments aim to enhance the journal's role in supporting marine science and management.

Integration of Big Data and Technology

Increasing use of big data analytics, artificial intelligence, and remote sensing technologies is expected to be reflected in future publications. These tools offer new insights into complex marine systems.

Strengthening Interdisciplinary Research

The journal will likely continue to promote interdisciplinary studies that integrate natural and social sciences, addressing the multifaceted nature of marine issues.

Enhanced Accessibility and Engagement

Efforts to improve open access, data sharing, and public engagement will support broader dissemination and application of marine science knowledge.

- Supports evidence-based marine policy and management
- Publishes interdisciplinary and innovative research
- Employs rigorous peer review and ethical standards
- Offers hybrid access options for scientific dissemination
- Facilitates global collaboration among marine scientists

Frequently Asked Questions

What is the focus of the ICES Journal of Marine Science?

The ICES Journal of Marine Science focuses on publishing high-quality research articles related to marine science, including marine ecosystems, fisheries science, oceanography, and marine environmental changes.

Who publishes the ICES Journal of Marine Science?

The ICES Journal of Marine Science is published by Oxford University Press on behalf of the International Council for the Exploration of the Sea (ICES).

Is the ICES Journal of Marine Science a peer-reviewed journal?

Yes, the ICES Journal of Marine Science is a peer-reviewed scientific journal, ensuring that all published research meets rigorous academic standards.

How often is the ICES Journal of Marine Science published?

The ICES Journal of Marine Science is published bimonthly, with six issues released each year.

Can I access the ICES Journal of Marine Science articles online?

Yes, articles from the ICES Journal of Marine Science are available online through the official journal website, often requiring a subscription or institutional access, though some articles may be open access.

What types of articles are published in the ICES Journal of Marine Science?

The journal publishes original research papers, reviews, and short communications covering a broad range of topics in marine science, including fisheries biology, marine ecology, oceanography, and marine policy.

How can researchers submit their work to the ICES Journal of Marine Science?

Researchers can submit their manuscripts through the journal's online submission system, following the detailed author guidelines provided on the journal's website.

Additional Resources

1. *Marine Ecosystems and Climate Change: Insights from ICES Research*

This book explores the impact of climate change on marine ecosystems, drawing extensively from studies published in the ICES Journal of Marine Science. It provides a comprehensive overview of how rising temperatures, ocean acidification, and shifting currents affect marine biodiversity and fisheries. The book integrates scientific research with policy discussions to offer solutions for sustainable ocean management.

2. *Fisheries Science and Management: Advances from ICES Studies*

Focusing on fisheries science, this volume compiles key methodologies and findings reported in the ICES Journal of Marine Science. It covers stock assessment models, sustainable harvesting techniques, and ecosystem-based management approaches. The book is an essential resource for marine biologists, fisheries managers, and policymakers.

3. *Oceanographic Processes and Marine Biodiversity*

This book delves into the physical and chemical oceanographic processes that shape marine biodiversity patterns, with case studies inspired by ICES research. Topics include nutrient cycling, ocean currents, and their influence on species distribution. It bridges oceanography and marine ecology to better understand ecosystem dynamics.

4. *Marine Pollution and Its Effects on Coastal Ecosystems*

Examining the sources and consequences of marine pollution, this text synthesizes findings from the ICES Journal and related research. It discusses contaminants such as plastics, heavy metals, and agricultural runoff, highlighting their impacts on marine life and human health. Strategies for pollution mitigation and ecosystem restoration are also presented.

5. *Marine Food Webs and Trophic Interactions*

This book provides an in-depth analysis of marine food webs, emphasizing trophic interactions and energy flow in ocean ecosystems. Drawing on ICES studies, it addresses predator-prey relationships, the role of keystone species, and the effects of fishing on food web stability. The work is critical for understanding ecosystem resilience and management.

6. *Advances in Marine Population Dynamics*

Centered on population dynamics, this book reviews theoretical and applied research from the ICES

Journal of Marine Science. It covers reproductive biology, recruitment variability, and population modeling techniques. The volume offers insights into managing marine species populations sustainably amid environmental changes.

7. Marine Conservation Strategies: Lessons from ICES Research

This publication discusses marine conservation efforts informed by ICES research findings. It highlights marine protected areas, habitat restoration, and species recovery programs. The book advocates for science-based conservation policies to safeguard marine biodiversity and ecosystem services.

8. Technological Innovations in Marine Science

Focusing on technological progress, this book showcases new tools and methods featured in ICES Journal articles, such as remote sensing, autonomous underwater vehicles, and genetic analysis. It explores how these innovations enhance data collection, monitoring, and understanding of marine environments.

9. Human Impacts on Marine Ecosystems: Challenges and Solutions

This book addresses the multifaceted human influences on marine ecosystems, including overfishing, habitat destruction, and climate change. Drawing from ICES research, it evaluates the ecological consequences and discusses integrated management solutions. The book serves as a guide for balancing human activities with ocean health.

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ices journal of marine science: Oceans and Human Health Robert E. Bowen, Michael H. Depledge, Cinnamon P. Carlarne, Lora E. Fleming, 2014-04-03 Human health and well-being are tied to the vitality of the global ocean and coastal systems on which so many live and rely. We engage with these extraordinary environments to enhance both our health and our well-being. But, we need to recognize that introducing contaminants and otherwise altering these ocean systems can harm human health and well-being in significant and substantial ways. These are complex, challenging, and critically important themes. How the human relationship to the oceans evolves in coming decades may be one of the most important connections in understanding our personal and social well-being. Yet, our understanding of this relationship is far too limited. This remarkable volume brings experts from diverse disciplines and builds a workable understanding of breadth and depth of the processes - both social and environmental - that will help us to limit future costs and enhance the benefits of sustainable marine systems. In particular, the authors have developed a shared view that the global coastal environment is under threat through intensified natural resource utilization,

as well as changes to global climate and other environmental systems. All these changes contribute individually, but more importantly cumulatively, to higher risks for public health and to the global burden of disease. This pioneering book will be of value to advanced undergraduate and postgraduate students taking courses in public health, environmental, economic, and policy fields. Additionally, the treatment of these complex systems is of essential value to the policy community responsible for these questions and to the broader audience for whom these issues are more directly connected to their own health and well-being. The seas across this planet and their effects on human society and its destiny are a fascinating subject for analysis and insights derived from intellectual inquiry. This diverse and complex subject necessarily requires a blending of knowledge from different disciplines, which the authors of this volume have achieved with remarkable success. The following pages in this volume are written in a lucid and very readable style, and provide a wealth of knowledge and insightful analysis, which is a rare amalgam of multi-disciplinary perspectives and unique lines of intellectual inquiry. It is valuable to get a volume such as this, which appeals as much to a non-specialist reader as it does to those who are specialists in the diverse but interconnected subjects covered in this volume. (From the Foreword written by, R K Pachauri, Director General, TERI and Chairman, IPCC)

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book is an excellent resource to aid them. —Fisheries, March 2010

ices journal of marine science: *Atlantic Cod* George A. Rose, 2019-02-26 A comprehensive handbook, covering all aspects of the Atlantic cod including the biology, ecology, life histories, behaviour, commercial exploitation and conservation Not only is Atlantic cod one of the most valuable food fish in the world's oceans, it is an important component of North Atlantic ecosystems and has been subject to much research into its biology, ecology and exploitation. After hundreds of years of exploitation, overfishing in the last half of the 20th Century caused many stocks to collapse, most famously the Northern cod stock off Newfoundland and Labrador, Canada. Since then, most cod stocks have been better researched and managed, but remain in a variety of states, from fully recovered to continued decline. This book, written by world experts, describes that research and management, and the importance of cod and its fisheries on North Atlantic cultures and economies, with impacts well beyond the range of the species. *Atlantic Cod: Bio-Ecology of the Fish* offers insightful chapter coverage of cod nomenclature, taxonomy, phylogeny and morphology; physiology and ecophysiology; reproduction and spawning behavior; early life history and pre-recruitment processes; migrations, movements and stock identity; feeding, growth and energetics; the place of cod in the ecosystem; the exploitation of cod through history and present day commercial fisheries and precautionary management for sustainable fisheries; impacts of climate change on cod biology and ecology; and the future of the species and its fisheries. Discusses the major commercial importance of Atlantic cod through history Provides a comprehensive treatment of the bio-ecology of the most researched and highly exploited fully marine species Examines how the decline (and recovery) of cod stocks is of great political and scientific interest An essential purchase for marine fisheries scientists *Atlantic Cod: Bio-Ecology of the Fish* is a vital book for all fisheries scientists, managers and fish biologists.

ices journal of marine science: *The Ecosystem Approach to Fisheries* Gabriella Bianchi, Hein Rune Skjoldal, 2008 Sustainable use of aquatic ecosystems is high on regional, national and international agendas and central to the implementation of international agreements on biological diversity, responsible fisheries and fish stock management. Since 2001, when political commitments were made to implement the ecosystem approach, countries have begun to incorporate ecosystem considerations into their fisheries management and have met with varied success. *The Ecosystem Approach to Fisheries* covers both theoretical and applied aspects of sustainable management, with a particular emphasis on reviewing concepts and addressing implementation issues in the form of case studies from around the world. Personal experiences are considered from diverse backgrounds and discuss the constraints encountered, strategies identified and best practices to facilitate further implementation.--BOOK JACKET.

ices journal of marine science: *Fish atlas of the Celtic Sea, North Sea, and Baltic Sea* Henk J.L. Heessen, Niels Daan, Jim R. Ellis, 2023-09-14 The atlas presents a unique set of abundance data to describe the spatial, depth, size, and temporal distribution of demersal and pelagic fish species over an extensive marine area, together with accounts of their biology. A large number of pictures, graphs and distribution maps illustrate the text. By largely avoiding - or at least explaining - scientific terms and providing extensive references, the book should be useful for both laymen and scientists. The quantitative information on some 200 fish taxa is derived from 72,000 stations fished by research vessels during the period 1977-2013. The area covers the northwest European shelf from west of Ireland to the central Baltic Sea and from Brittany to the Shetlands. Although the surveys extend beyond the shelf edge, only taxa reported at least once in waters less than 200 m are included. Typical deep-water species and typical fresh-water species are excluded. We hope this publication will contribute to gaining a better understanding of the ocean ecosystems.

ices journal of marine science: *Advances in Fisheries Science* Andrew I. L. Payne, John Cotter, Ted Potter, 2009-01-22 This timely book brings readers up to date on the wide range of advances made in fisheries science since the publication in 1957 of *On the Dynamics of Exploited Fish Populations* (Beverton and Holt), regarded by many fisheries scientists as one of the most important books on fisheries yet published. Traditional fishery subjects covered include historic

declines and changes in fishing fleets, fisheries management and stock assessments, data-poor situations, simulation and modelling of fished stocks, fisheries economics, assessing reproductive potential and dispersal of larvae, fisheries for sharks and rays, and use of marine technology. Additionally, related subjects of increasing importance now that ecological approaches to management are coming to the fore are presented. They include benthic ecology, ecosystem changes linked to fishing, life history theory, the effects of chemicals on fish reproduction, and use of sounds in the sea by marine life. Several chapters offer stimulating philosophical discussion of the many controversial areas still existing. This significant book, edited by Andy Payne, John Cotter and Ted Potter and containing contributions by world-renowned fisheries scientists, including many based at Cefas (where Beverton and Holt's original work was carried out) is an essential purchase for fisheries managers and scientists, fish biologists, marine scientists and ecologists. Libraries in all universities and research establishments where fisheries and biological sciences are studied and taught are likely to need copies of this landmark publication.

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to researchers, policy makers, and advocacy groups around the world.

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principles of operation, signal processing methods and marine applications.

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