

Article

A Comparative Analyzing of Zooplankton Community Diversity in Surface Layer Water of Reservoir Via eDNA Metabarcoding and Microscopy

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Abstract: We compared two sampling methods, eDNA metabarcoding and microscope identification (MSI), for the analysis of zooplankton diversity in reservoirs with its inflow and outflow streams. The dynamic patterns of Cladocera and Rotifera at different time points were similar between the two sampling methods, but there was a slight difference in the Copepoda. Specifically, the members of the Copepoda subclass could not be easily classified using the MSI method, whereas eDNA metabarcoding could detect minor taxa of Cladocera and Rotifera. Upon comparing the list of zooplankton communities in Korea with the gene database of NCBI, only ~56% of the zooplankton genera reported in Korea could be detected based on the 18S rRNA gene. However, eDNA metabarcoding detected a more diverse range of zooplankton despite the lack of genetic information. As water temperature increased after May, the zooplankton diversity decreased according to the MSI method but increased according to the eDNA metabarcoding method. Although eDNA metabarcoding has some limitations, it was able to detect a wider diversity of zooplankton compared to the MSI. eDNA metabarcoding provides a more reliable means to identify zooplankton.

Keywords: zooplankton; eDNA; microscope identification; community; diversity



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1. Introduction

Zooplankton occupies an intermediate position in the aquatic food web and plays a crucial role in energy transfer to macroinvertebrates or fish. Additionally, zooplankton could be used as an indicator to evaluate aquatic ecosystems due to their short life cycle. Particularly, the species composition, population density, and productivity of zooplankton communities rapidly respond to the direct or indirect influences of abiotic and biotic environmental factors [1,2].

However, despite the importance of zooplankton in aquatic communities, accurate classification of zooplankton species is notoriously difficult due to the occurrence of cryptic sibling species. Because of these ambiguities, the morphological classification of copepods is quite challenging, especially during the larval stage. Therefore, the identification of zooplanktonic species requires taxonomic expertise and extensive datasets [3].

The environmental DNA (eDNA) metabarcoding technique is being used as an alternative and efficient tool for the assessment of community structure and habitat condition [4,5]. This technique was initially utilized in sediments to detect the DNA of animals and plants but has since been applied to various terrestrial and aquatic samples [6]. eDNA sequencing technologies provide several advantages for the assessment of aquatic ecosystems, such as the classification of a broader taxonomic range, high detection sensitivity, and time efficiency, in addition to not requiring vast taxonomic expertise [7,8]. These advantages

Zooplankton Community Analysis

**Graham William Hosie, Australian
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Zooplankton Community Analysis W.M. Jr. Lewis, 2012-12-06 This book is based on the premise that the study of ecological communities should be a composite analysis of system properties community structure community energetics and population properties life history patterns adaptive strategies backed by a thorough understanding of the physical chemical environment Too frequently community ecology takes a much narrower focus This may partly be the result of perceived antagonisms between schools of thought in ecology Despite their rather separate origins the multiple theoretical and methodological tools that now exist must be applied synthetically to real communities if the progress of the past two decades is to continue into the next two This book has a case history format which increases the opportunity for detailed analysis although I have attempted to maintain the general perspective of a community ecologist and to draw extensively from the literature whenever it seems profitable to do so The case history data are for Lake Lanao a large tropical lake The main zooplankton data base used in the analysis is entirely original and unpublished although the detailed supporting data on the physical chemical environment and the phytoplankton community have been presented in numerous journal articles and are thus abstracted or used selectively to meet the needs of zooplankton community analysis [Zooplankton Community](#)

[Analysis](#) William M. Lewis, 1979 **Niche Analysis of a Zooplankton Community** Joseph C. Makarewicz, 1975 The division of the niche hyperspace has been demonstrated for the limnetic zooplankton community of Mirror Lake New Hampshire The niche structure of the zooplankton community is conceived as an intensive or intracommunity population continuum corresponding to the niche hyperspace The community of zooplankton is a system of interacting populations whose adaptive centers do not overlap and have evolved toward dispersion in relation to the complex gradients of food size depth and time *Analysis of the Zooplankton Community of Athens Reservoir, Texas* William Scott Costanza, 1995

[Patterns and Processes of Speciation in Ancient Lakes](#) Thomas Wilke, Risto Väinölä, Frank Riedel, 2009-04-02 Ancient lakes are exceptional freshwater environments that have continued to exist for hundreds of thousands of years They have long been recognized as centres of biodiversity and hotspots of evolution During recent decades speciation in ancient lakes has emerged as an important and exciting topic in evolutionary biology The contributions in this volume deal with patterns and processes of biological diversification in three prominent ancient lake systems Of these the famous East African Great Lakes already have a strong tradition of evolutionary studies but the two other systems have so far received much less attention The exceptional biodiversity of the European sister lakes Ohrid and Prespa of the Balkans has long been known but has largely been neglected in the international literature until recently The rich biota and problems of its evolution in the two central lake systems on the Indonesian island of Sulawesi in turn have only lately started to draw scientific attention This volume aims at deepening the awareness of the unusual biological diversity in ancient lakes in general and of the role of these lakes as natural laboratories for the study of speciation and diversification in particular It should stimulate further

research that will lead to a better understanding of key evolutionary processes in these lakes and to knowledge that might help in mitigating the deterioration of their diversity in the future

An Ecological Analysis of the Zooplankton Community of an Oxbow Lake Near the Angelina River, Texas William Clark Rein, 2000 An Analysis of the Zooplankton Community Structure of the Western Beaufort Sea Maureen McConnell, University of Rhode Island, 1977 An Analysis of the Zooplankton Community in an Acid Polluted Reservoir Janie L. Bible, 1972

Environmental Monitoring and Remediation Using Microbiotechnology Tian Li, Lean Zhou, Xiaojing Li, Li Yuan, Wei Zhi, 2022-05-31 Ecological Risk Assessment for Chlorpyrifos in Terrestrial and Aquatic Systems in the United States John P. Giesy, Keith R. Solomon, 2014-04-10

Reviews of Environmental Contamination and Toxicology attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications *The Zoological Record*, 2003

The First International Lake Ladoga Symposium Heikki Simola, Markku Viljanen, Tatyana Slepukhina, Raj Murthy, 2012-12-06

Lake Ladoga is the largest lake in Europe and with its surface of 17 891 km² and volume of 837 km³ it ranks among the top fifteen of the world's freshwater bodies The ecological condition of Lake Ladoga is of concern to several million people living in its surroundings There is evidence of water quality degradation and gradual eutrophication of the lake during the past decades on the other hand pollution control measures have improved the situation in many of the most polluted sites near industrial effluent sources The first international Lake Ladoga Symposium was held in St Petersburg on 22-26 November 1993 The symposium was attended by 160 scientists and about half of the papers presented at the symposium have been edited for this book The contributions are grouped under the following headings Present state of Lake Ladoga Hydrodynamics of Lake Ladoga and other large water bodies Water quality and pollution Ecological studies of Lake Ladoga biota History of Lake Ladoga and rates of change in its environment Research methods for large lakes Besides providing up to date information on the state of the lake the papers deal with studies of many other large lakes of the cold temperature zone and the general problems and methods of large lake research Furthermore the book is a valuable source of reference to the voluminous Russian limnological literature *Recent Advances in Fresh-water Biology* Kotapalli Setha Rao, 1993 *Selected Water Resources Abstracts*, 1989

Bulletin of the Ecological Society of America Ecological Society of America, 1993

The Indian Journal of Animal Sciences, 1981 Coenoses, 1993 Multivariate Analyses of the Macrozooplankton Community and Euphausiid Larval Ecology in the Prydz Bay Region, Antarctica Graham William Hosie, Australian National Antarctic Research Expeditions, 1994 Ecological Assessment of Irish Lakes: Synthesis report Environmental Protection Agency (Ireland), 2001

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