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Marine Zooplankton Ecology and Biodiversity

Guest Editors:

Prof. Dr. Letterio Guglielmo
Integrative Marine Ecology Department, Stazione Zoologica Anton Dohrn, Napoli, Italy

Dr. Antonia Granata
Laboratory of Zooplankton and Micronekton Ecology, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy

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Message from the Guest Editors

Zooplankton diversity is characterized by spatial differences in community composition in the neritic environment, the coastal shelf, and deep offshore waters. Changes in species diversity were the greatest on interannual scales, intermediate on seasonal scales, and the smallest across regions, in contrast to abundance patterns, suggesting that zooplankton diversity may be a more sensitive indicator of ecosystem response to interannual climate variation than zooplankton abundance. Bathymetry, the proximity of the coast, and advection probably drive zooplankton and micronekton diversity patterns, while ocean-basin-scale diversity patterns probably contribute to the increase in diversity.

This Special Issue offers updated data that could be used to monitor and evaluate the impact of zooplankton ecology and species diversity in changing ecosystems. It is recommended to conduct more and detailed studies in all areas to cover the gaps in marine biodiversity data. The long-term observations and modelling analysis of biodiversity must be effectively communicated to managers and incorporated into ecosystem approaches for the management of living marine resources.

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Editor-in-Chief

Dr. Jean-Luc PROBST
Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
water@mdpi.com
𝕏@Water_MDPI