

Special Issue

Marine Biodiversity and Ecophysiology Under Changing Marine Habitats

Message from the Guest Editors

Marine biodiversity is correlated with the health and stability of marine habitats. Biodiversity is significantly impacted by variations in environmental conditions, whether due to natural processes or anthropogenic activities. Addressing the challenges posed by changing marine habitats requires a comprehensive and integrated approach to preserve their rich biodiversity. Apart from the recognition of how many life strategies (the biodiversity) can co-exist in the same habitat and the complex frame in which this goal can be realized, a clarifying contribution comes from ecophysiology, which focuses on the acclimatation and responses of organisms to their natural habitats, particularly how they adapt, survive, and maintain their ecological roles in the present dynamic scenario. Ecophysiology elucidates the mechanisms behind diversity in marine environments, referring to the variations in physiological traits and functions at intra- and inter-species levels, as well as across different ecosystems, as a key component of biodiversity, underpinning ecological interactions and ecosystem functions.

Guest Editors

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Prof. Dr. Charitha Pattiaratchi

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