

Special Issue

Responses and Adaptations of Marine Species to Global Change

Message from the Guest Editors

Global change is profoundly reshaping marine ecosystems, imposing unprecedented pressures on species across multiple spatial and temporal scales. In the context of the Anthropocene and climate change, marine organisms are exposed to interacting stressors. Together, these drivers are altering environmental conditions and challenging the resilience of marine biodiversity worldwide. Understanding how marine species respond and adapt to these anthropogenic disturbances is a central challenge for contemporary marine science. Responses may manifest across different levels of biological organization, from molecular and physiological adjustments to population-level dynamics, community restructuring, and ecosystem functioning. Integrating field-based observations with experimental approaches is essential to diagnose current impacts and to predict adaptive trajectories under future global change scenarios. This Special Issue aims to bring together original research that advances our understanding of the responses and adaptive mechanisms of marine species to global change, providing insights relevant for biodiversity conservation, ecosystem management, and sustainable ocean governance.

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Deadline for manuscript submissions

30 September 2026



Diversity

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Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.

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