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Assessing the Effects of Multiple Stressors on Aquatic Systems across Temporal and Spatial Scales: From Measurement to Management

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Message from the Guest Editors

The implementation of effective management actions to promote ecological integrity and ensure the long-term provision of services for aquatic ecosystems requires a deep understanding of how multiple stressors act on biota. In turn, this knowledge depends on the ability to disentangle the complexity of multiple stressor cause–effect chains. The temporal dimension induced by future climate and land use changes poses further challenges to tackle this complexity. A key issue is how different stressors interact with each other in their effects on ecosystems. Acknowledging these important research challenges, in this Special Issue we propose to reduce the gap between science and management, by improving knowledge on the interplay among stressors across spatial and temporal scales and the consequences for the management of aquatic systems. We are interested in fundamental and applied research performed at single or multiple scales and focused on single or multiple biotic elements and stressor types. Studies that include projections under climate and land use changes, or under different management options, are especially welcome.



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Special Issue



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Message from the Editor-in-Chief

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