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# Thermal and Hypoxia Vulnerability in Tropical Marine Systems: Advances in Physiology, Ecology and Evolution

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### **Message from the Guest Editors**

In the tropics, oceans are rapidly warming (OW) and marine heat waves (MHW), as well as hypoxia, are becoming more frequent, more severe, and longerlasting. The impact these phenomena have on marine life depends on i) the multilevel hierarchical nature of physiological responses, ii) the complexity of genotypephenotype-environment interactions, iii) organisms' ability to buffer changes through behavior, iv) the plastic, epigenetic, and evolutionary trajectories of species and their ability to rapidly adapt to changes, and v) indirect impacts mediated by changes in species interactions and community structures and dynamics. In this Special Issue, we aim to investigate these processes in depth and create a useful critical synthesis, by bringing together cutting-edge original studies that assess the emerging risks of chronic and extreme warming and hypoxic events for tropical biotic systems.



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### Message from the Editor-in-Chief

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