

Special Issue

Ocean Observing Systems: Latest Developments and Challenges

Message from the Guest Editors

This Special Issue focuses on the critical role of ongoing ocean observing systems and networks, highlighting their importance in the context of climate change. These systems continue to provide essential data for understanding marine ecosystems, climate dynamics, and sustainable ocean management, making their role more crucial than ever. With the Decade of Ocean Science for Sustainable Development now underway, it is imperative to update and expand our understanding of ocean monitoring technologies, strategies, and practices. This Special Issue aims to shape the future of ocean observing by fostering collaboration among oceanographers, modelers, technology operators, data experts, early-career scientists, policymakers, and end-users. It will explore the latest advancements in marine technologies, best practices, and ocean data management, with a focus on sustainable ocean management and the protection of marine ecosystems. By integrating diverse perspectives and expertise, we seek to influence the next generation of ocean observation efforts, ensuring that monitoring systems are robust, adaptive, and capable of addressing the challenges posed by climate change.

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