



Marine Biodiversity Observatory Systems

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submissions:

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Message from the Guest Editors

Dear Colleagues,

Marine biodiversity provides ecosystem services that are essential to human health. More specifically, prokaryotic and eukaryotic microbial communities are the foundation of the majority of these services. However, biodiversity is facing changes due to anthropogenic activities, climate change, invasive alien species, and natural variation. To be able to predict early-warning signals and tipping points regarding ecosystem resilience, it is required to combine observation and recording of both the biodiversity and the functional potential of an ecosystem through time. Marine biodiversity observatory systems address this need as they are sites subjected to long-term scientific research using both traditional and novel approaches in biodiversity monitoring, with the latter exploiting environmental DNA (eDNA) and RNA (eRNA) (e.g., metabarcoding, metagenomics, metatranscriptomics). Thus, traditional biodiversity assessment approaches are complemented by newer ones in an attempt to comprehensively catalogue all organisms present and enhance the sensitivity of the observation.





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Message from the Editor-in-Chief

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