

## Preface

The tenth edition of the *Symposium Mediterranean Coastal Monitoring: problems and measurement techniques*, held in Livorno from 11<sup>th</sup> to 13<sup>th</sup> June 2024, represented a significant goal for the event born in 2006 from an idea of the dr. Fabrizio Benincasa, Research Director of CNR. In its almost twenty-year history, the Symposium has seen the approval and participation of scholars from all over the Mediterranean basin grow over the years. Edition after edition, it has increasingly confirmed itself as an opportunity for dialogue, comparison and constructive debate on new perspectives and challenges in the field of monitoring and conservation of Mediterranean coastal ecosystems and to evaluate strategies and actions for the protection and safeguard of the marine and coastal environment.

This edition of Symposium has been organized by the Institute of BioEconomy (IBE) of the National Council Research (CNR) in collaboration with the Italian Society of Silviculture and Forest Ecology (SISEF). This edition, like those of the last years, is divided into the following Sessions: Flora and fauna of coastal ecosystems: protection, management, monitoring; Geography Tourism and Landscape of the coastal area; Coastal and underwater cultural heritage; Morphology and evolution of coasts and sea beds; Coastal and offshore engineering.

Also in this tenth edition, the Symposium has highlighted the importance of multidisciplinary and interdisciplinary studies, and the consequent need for integrated analysis and investigation approaches. The coastal system is both a complex and fragile natural structure, whose evolution is the result of delicate physical, chemical and biological balances, highly influenced by anthropic actions. Therefore, the Symposium aims to contribute to the dissemination of knowledge on this natural system, providing information on the dynamics and/or variations of marine-coastal ecosystems, hoping to represent a useful contribution to increasing man's respect for the land that hosts him.

The success of this edition is confirmed by the 180 contributions selected by the Scientific Committee from those submitted. The participation covered all the topics foreseen by the sessions, engaging many countries on the Mediterranean coasts. We would also like to highlight how the participation of young researchers, also in this edition, is the confirmation that the Symposium continues to represent an opportunity and an important point of reference for the scientific comparison of ideas and results.

Special thanks to cpt. Paolo Sottocorona for the introductory keynote on *the Effects of climate change on the Mediterranean Sea*, which was particularly appreciated by the participants.

Finally, we would like to thank our colleagues who have dedicated their time and energy to the success of the Symposium. Likewise, we would like to thank all the participants, who, with their presence, have shown that they believe in our initiative by sharing its scientific objectives.

*The Editors*

## ORGANIZING AUTHORITIES



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Società Italiana di Selvicoltura ed Ecologia Forestale

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### Session *Flora and Fauna of coastal ecosystems: protection, management, monitoring*

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### Session *Geography, Tourism and Landscape of the Coastal Areas. Enhancement, Safeguarding and Dynamics of the Territory*

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### **Session Underwater and Coastal Cultural Heritage**

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### **Session Morphology and Evolution of Coastlines and Seabeds**

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Sandro Moretti	<i>Dept. of Earth Sciences University of Florence</i>
Kristina Pikelj	<i>Dept. of Geology University of Zagreb, Croatia</i>

### **Session Coastal and Offshore Engineering: Energy Production and Transport, Port and Offshore Structures, Water Quality, Measurements and Monitoring, Data Processing and Services, Digital Twins, Economic-Environmental Assessment, Regulatory Context**

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