

Environmental and Water Resources Engineering Seminar Series Presents:

Thursday, October 10th 2024, 3:30-4:30pm, ECJ 1.308



Lake surface dynamics from space: opportunities and challenges in Earth Observation and modelling

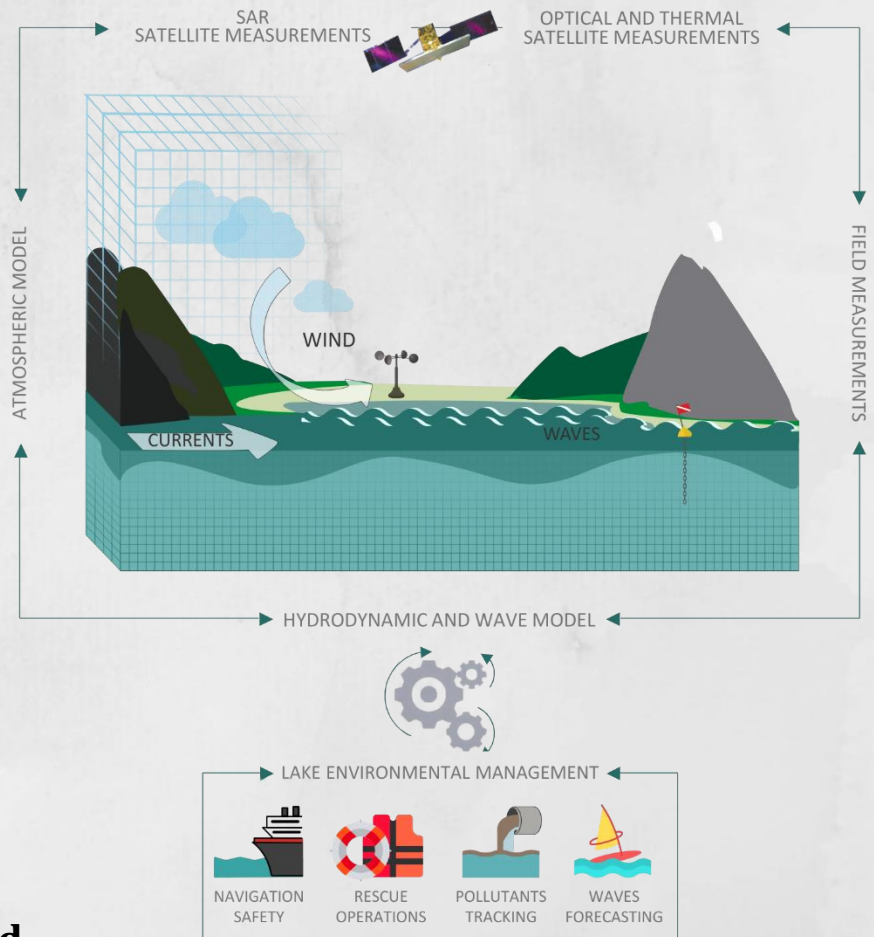
Dr. Marina Amadori

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Abstract

Lakes are complex systems integrating climate and human activities. The challenge of gaining a comprehensive understanding of such systems requires the joint effort of multidisciplinary teams of scientists and engineers and the engagement of the public sector. Marina Amadori will discuss how she brought together remote sensing experts, atmospheric physicists, and hydrodynamic modelers to study the interplay between wind, waves, currents, and water quality in alpine lakes, and developed digital tools to assist water management decisions for stakeholders.



Background

Marina Amadori is a post-doctoral researcher at the Institute for Electromagnetic Sensing of the Environment at National Research Council of Italy (CNR-IREA). She earned a PhD in Civil, Environmental and Mechanical Engineering at the University of Trento (Italy). Her research combines expertise in environmental fluid mechanics with a deep knowledge of remote sensing frontiers for understanding processes occurring at the interface between air and water in lakes.