Special Issue

Diagnostic Timescale Methods for the Aquatic Environment: Current Challenges, Recent Improvements, and Applications

Message from the Guest Editors

Timescale diagnoses (e.g., age, residence/exposure time, inverse of reaction rate) are powerful tools helping to analyze and understand passive and reactive transport processes taking place in the aquatic environment.

This Special Issue aims at presenting recent advances in tracer and timescale methods. All types of contributions will be welcome, in particular those focusing on novel methodological developments (even if they are still being formulated) and applications aimed at addressing ecological problems. Numerical methods using Eulerian or Lagrangian approaches will be considered, as well as techniques based on remotely sensed or in situ data. We will seek a balance between contributions from natural sciences and engineering, as well as between numerical, observational and theoretical approaches.

This Special Issue is intended to be a follow-up to a recently completed Water Special Issue entitled “Tracer and Timescale Methods for Passive and Reactive Transport in Fluid Flows” (mdpi.com/si/22716).

Guest Editors

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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