Special Issue

Ecological Modelling of Aquatic Ecosystems

Message from the Guest Editors

Ecological models have become essential tools in aquatic ecosystem research. They enable researchers to explore hypothetical scenarios, test ecological theories, and generate predictions under different management scenarios. This Special Issue offers the opportunity for researchers to share their advances in various topics of ecological modelling of aquatic ecosystems, including, but not limited to:

- Recent developments in aquatic ecological models, such as integration of machine learning methods and assessment of uncertainty in model predictions;
- Application of ecological models in resolving nutrient cycling pathways and fluxes;
- Modelling the fate of non-nutrient pollutants in aquatic environments;
- Integration of aquatic ecological models with catchment models for land-use management and its consequence on water quality;
- Predicting trajectory of aquatic ecosystem evolution under climate and anthropogenic pressures;
- Application of ecological models in effective management of aquatic ecosystems and decision-making processes;
- Other topics related to the ecological modelling of aquatic ecosystems.

Guest Editors

Dr. Peisheng Huang

School of Agriculture and Environment, The University of Western Australia, Perth, WA, Australia

Dr. Matthew Hipsey

School of Agriculture and Environment, The University of Western Australia, Perth, WA, Australia

Deadline for manuscript submissions

closed (20 August 2024)

About the Journal

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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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