



water

an Open Access Journal by MDPI



Study of Lagoons and Other Shallow Water Bodies Through the Application of Numerical Models

Guest Editors:

Dr. Georg Umgiesser

Prof. Dr. Angel Perez-Ruzafa

Prof. Dr. Arturas Razinkovas-Baziukas

Deadline for manuscript
submissions:

closed (20 December 2019)

Message from the Guest Editors

Numerical modeling, from hydrodynamics to population dynamics, eutrophication processes, food webs or ecosystem services, has become an important tool in the environmental sciences. Modeling can be used to integrate observations interpolate these data in the spatial and temporal dimension. However, modeling can also be used for forecasting and “what-if” predictions. Modeling in transitional areas, such as lagoons and coastal zones, show big differences with respect to the open sea. The strong influence of land-based inputs, the relative importance of sediments and the atmosphere, and man-made influences on the water bodies distinguish these areas from open waters and ask for different techniques in modeling. Especially, the use of unstructured numerical grids allows a faithful reproduction of the spatial complexity found in transitional areas. Finally, integration of different models is needed to describe the complexity of processes that are occurring in lagoons and the coastal zone. Special focus should be given to ensure that these models work smoothly together.



mdpi.com/si/14590

Special Issue

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

ECOLAB, Centre National de la
Recherche Scientifique (CNRS),
University of Toulouse, campus
ENSAT, Auzeville Tolosane,
France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)