

Special Issue

Interactions of the Terrestrial Hydrologic, Energy, and Biogeochemical Cycles

Message from the Guest Editors

The terrestrial hydrologic, energy, and biogeochemical (HEB) cycles are intrinsically coupled via non-linear processes acting across a number of space and time scales. In the past, considerable progress has been made in characterizing the different cycles utilizing in situ and remotely sensed observations and models. Recently, strong focus has been placed on integrating the HEB cycles in a systems theoretical and experimental approach accounting for the non-linear, two-way feedbacks across different terrestrial compartments from groundwater across the land surface into the atmosphere including also human activities. This Special Issue solicits contributions from observational and modeling studies, which advance our understanding of the coupled HEB cycles and improve our models and predictions including uncertainty estimates. Special focus is placed on novel data analytics and assimilation technologies to identify, e.g., long and short range correlations of non-linear processes and merge efficiently models with observations.

Guest Editors

Prof. Stefan Kollet

Forschungszentrum Jülich IBG-3, Wilhelm-Johnen-Straße, 52428 Jülich, Germany

Prof. Dr. Clemens Simmer

Meteorological Institute, Bonn University, Bonn

Deadline for manuscript submissions

closed (31 October 2018)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/14479

Water

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

water@mdpi.com

mdpi.com/journal/

[water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



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

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 (Aquatic Science)