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Impact of Large Wood on River Ecosystems

Guest Editors:

Dr. Isabella Schalko
Massachusetts Institute of Technology, Cambridge, MA, United States

Dr. Volker Weitbrecht
Laboratory of Hydraulics, Hydrology and Glaciology, ETH Zürich, Zurich, Switzerland

Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editors

Dear colleagues,

Large wood (LW), also referred to as instream wood or driftwood, is a relevant part of a river ecosystem, commonly used for restoration and interacting with river engineering structures. LW in rivers creates heterogeneous flow conditions and morphological structures. LW accumulations may form ecologically beneficial dead water zones, thereby enabling the storage of nutrients. In addition, LW accumulations provide habitat for many different species and increase hyporheic exchange. Recent floods demonstrated an increase in sediment and wood-laden flows, which affects the design of hydraulic structures. Current river engineering structures impair the ecologically required sediment and LW continuity during low flows.

This Special Issue focuses on the impact of large wood on river morphodynamics and the related ecosystems. We invite contributions that study wood transport dynamics and the interactions between wood, flow, sediment, or fauna to inform restoration efforts. We further encourage studies on sustainable wood management in rivers, including innovative technical solutions. We invite contributions using field, laboratory, or numerical approaches.

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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

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.

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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Water_MDPI