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New Challenges: Modelling the Water Quality of Surface Waters with Ice Cover

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2021)

Message from the Guest Editor

Dear Colleagues,

Modelling the quality of surface waters under ice-covered conditions is an understudied topic of research, but is gaining momentum due to the realisation within the scientific community of its importance in the understanding of the year-round ecological functioning of aquatic ecosystems. As recent studies have shown, assuming the “dormancy” of these under-ice ecosystems compared to open-water conditions, is a limitation to the holistic view of how these ecosystems function. For instance, the water-quality conditions during winter can have a marked effect on the successive spring and summer succession of phytoplankton species and algal–nutrient dynamics. Also, within the scope of the future climate, changing ice phenologies will impact surface water quality and even exacerbate changes in all-year dynamics. Modelling helps us to better understand these inter-seasonal influences and predict the impacts of future changes in our environment. It is against this backdrop that I invite you to submit your paper to this Special Issue, to promote scientific awareness of this important topic.

Prof. Dr. Karl-Erich Lindenschmidt
Guest Editor

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Message from the Editor-in-Chief

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