Special Issue

A Step Forward in Modelling Biodiversity under Future Climates: How to Make Better Scenarios?

Message from the Guest Editor

Over the last decades, global climate change has caused consistent patterns of physiological, phenological, and biogeographic shifts in species, sometimes leading to major changes in the “state” of ecosystems, with putative social and economic consequences. As warming is likely to range between ~1 and ~5 °C by 2100, these changes may amplify toward the end of this century. To investigate the potential implications of future climate change for biodiversity, empirical ecologists mainly rely on the relation between species and their environment, using not only the ecological niche concept, but also the duality between the niche and species distribution in modelling frameworks, called ecological (or environmental) niche nodels (ENMs), species distribution models (SDMs), or habitat models, depending on how these models are built or applied. In a global biodiversity crisis context, and because of the continuously growing availability of biodiversity and environmental data, and computing resources, such models have been intensively used over the last years (~900 publications in peer-reviewed journals over the last five years).

Guest Editor

Dr. Eric Goberville

BOREA (Biology of Aquatic Organisms and Ecosystems) Laboratory, Sorbonne University, Museum National d'Histoire Naturelle, 61, Rue Buffon CP53, 75005 Paris, France

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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