



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

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Message from the Guest Editor

Dear Colleagues,

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 models (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).





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