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Modelling the Impact of Climate and Land Use Changes on Wildlife by Integrated Distribution and Connectivity Analyses

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closed (31 May 2021)

Message from the Guest Editors

Land use and climate change are recognized as the two major processes affecting the realized distribution of wildlife in the Anthropocene. The amount, spatial arrangement, and integrity of original habitats are increasingly being altered, relegating animal populations into fragmented and progressively more isolated habitat remnants. In turn, the disruption of individuals and genetic fluxes among populations trigger cascade effects that can end in the so-called extinction vortex. Effective landscape and conservation planning should rely on a comprehensive evaluation of the independent and synergic effects of both land use and climate change. Nowadays, many modelling frameworks dealing with different sources of predictors exist to infer species distribution and functional connectivity among residual populations. In this Special Issue, we would like to collect research papers that adopt innovative methods to integrate species distribution and connectivity information in order to evaluate the effect of land use change, climate change, or their interaction on single species or multiple-species distribution.



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Special Issue



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Message from the Editor-in-Chief

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