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Climate and Climate Niche Models

Guest Editor:

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closed (30 November 2018)

Message from the Guest Editor

Dear Colleagues,

Climate niche models, alternatively known as bioclimate envelope models or species distribution models, have been widely used to assess the impact of climate change and to develop adaptive strategies. However, the credibility of a climate niche model depends on the accuracy of climate data, the quality of species occurrence data, modeling methodology and the interpretation of the model predictions. For climate data in particular, using different sources of climate data to build climate niche models may considerably affect model accuracy. Manuscripts that address these issues in the application of niche models and the improvement of climate data/models are welcome. Studies that compare climate niche models with process-based models will also be considered.

Keywords

- climate change
- climate data
- climate niche
- bioclimate envelope
- adaptation
- species distribution

Dr. Tongli Wang
Guest Editor