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## Pollen-Based Reconstruction of Holocene Land-Cover

Guest Editors:

**Dr. Qiao-Yu Cui**

**Dr. Laurent Marquer**

**Dr. Anneli Poska**

**Dr. Furong Li**

**Dr. Florence Mazier**

Deadline for manuscript  
submissions:

**closed (22 April 2024)**

### Message from the Guest Editors

Land cover is a principal component of the earth system, which influences global and regional climate through biogeophysical and biogeochemical feedback processes. In addition, the application of pollen-based land-cover reconstructions in a regional climate model shows that anthropogenic deforestation has a significant effect on mean temperatures in both summer and winter. As the basis of the terrestrial ecosystem, vegetation is directly linked to landscape-scale biodiversity. Understanding the long-term interactions between climate, vegetation, and human activities is crucial for assessing future biodiversity and climate change and decision making for adaption. Recent advances in palaeoecological research have produced a number of different pollen-based quantitative land-cover reconstruction methods (LRA, MAT, Biome, etc.). Studies from northern Europe show a good correlation between pollen-based estimates and plant diversity, suggesting that palaeo-proxies can successfully be used to assess the dynamics of past vegetation diversity.



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# Special Issue

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### Prof. Dr. Christine Fürst

Institute for Geosciences and  
Geography, Department  
Sustainable Landscape  
Development, University of Halle,  
Von-Seckendorff-Platz 4, 06120  
Halle, Germany

## Message from the Editor-in-Chief

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Land Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/land  
land@mdpi.com  
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