

## **Exploring Climate Resilience: Interdisciplinary perspectives from spatial sciences**

Peter Kumer, Danijel Davidovič

Despite our extensive understanding of the processes and causes of climate change, accumulated over more than a century (Le Treut et al., 2007), attempts to mitigate its detrimental effects on humanity remain severely limited. Recent studies highlight that the average annual temperature conducive to human habitation, agriculture, and other economic activities typically ranges from approximately 11 to 15 °C (Xu et al., 2020). As the average temperature continues to rise, the window of favorable conditions is either diminishing or shifting towards higher latitudes and elevations, potentially triggering extensive migrations and profound transformations in our way of life.

To mitigate adverse consequences and facilitate a smoother transition into a new reality, diverse measures are required. This entails embracing interventions across political, technological, economic, and various other dimensions, acknowledging the multifaceted nature of the challenge at hand. *Journal for Geography* is pleased to announce a call for papers for a special thematic issue focusing on "Climate Resilience". We invite researchers and practitioners from all fields of geography and other spatial sciences to contribute original research articles, reviews, and case studies that explore various dimensions of climate resilience.

This issue seeks to explore the multifaceted aspects of climate resilience, encompassing both rural and urban contexts, and highlighting the role of spatial sciences in addressing climate challenges.

### **Scope of the Thematic Issue**

We encourage submissions that address, but are not limited to, the following areas:

#### **1. Rural Climate Resilience:**

- Adaptation strategies in agriculture and rural communities.
- Impact of climate change on rural landscapes and ecosystems.
- Traditional knowledge and practices in climate resilience.

#### **2. Urban Climate Resilience:**

- Urban planning and design for climate adaptation.
- Green infrastructure and urban ecosystems.
- Climate resilience in metropolitan and urban areas.

#### **3. Spatial Analysis and Modelling:**

- Geospatial technologies in climate risk assessment and management.
- Remote sensing applications for monitoring climate impacts.
- Spatial data analytics for climate change adaptation.

#### **4. Socio-Economic Dimensions:**

- Community-based approaches to enhancing resilience.
- Economic impacts of climate change on different spatial scales.
- Policy frameworks and governance for climate resilience.

#### **5. Cross-Scale Interactions:**

- Linkages between local, regional, and global climate resilience strategies.

- Comparative studies of rural and urban climate resilience.
- Scaling up local adaptation measures to broader contexts.

**Submission Guidelines:**

- Submissions should be original, scientifically rigorous, and contribute to the field of spatial sciences.
- Manuscripts must conform to the author guidelines ([link](#)).
- All submissions will undergo peer-review for their scientific quality and relevance to the issue's theme.
- Manuscripts should be submitted via the journal's online submission platform ([link](#)).

**Important Dates:**

- Manuscript Submission Deadline: 15 May 2024
- Expected Publication Date: June 2024

**References**

Le Treut, H., Sommerville, R., Cubasch, U., Ding, Y., Mauritzen, C., Mokssit, A., Peterson, T., Prather, M., & Widmann, M. (2006). Historical Overview of Climate Change Science. In IPCC 4RG. Retrieved from

<https://www.ipcc.ch/site/assets/uploads/2018/03/ar4-wg1-chapter1.pdf>

Xu, C., Kohler, T. A., Lenton, T. M., Svenning, J. C., & M., S. (2020). Future of the human climate niche. *Proceedings of the National Academy of Sciences, USA* 117(21): 11350–11355. <https://doi.org/10.1073/pnas.1910114117>