

Title of the symposium:

Landscape resilience and ecological governance in Anthropocene

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Responsible

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Symposium abstract

Nature and society are facing new challenges in Anthropocene due to rapid urbanization and climate change. Resilience assessment has increasingly arisen as valuable framework to better understand human-environment/social-ecological interactions from the perspective of sustainable development. In fact, evaluation and quantification of resilience in human dominated landscapes are involved with adaptive cycle, catastrophe theory, early warning signal and safe operating boundary. Specific resilience analysis should be of great help to emphasize the catastrophic regime shifts in coastal natural systems, as well as understand the impacts of landscape changes on the changes of ecosystem's critical functionality under future landscape scenarios. The integration of resilient transformation into decision-making of coastal ecological governance requires robust quantification of social, economic and environmental trade-offs. The session will be focused on latest developments of this topic and particularly, showing: (i) examples of implementation and use of operational tools and methods for assessment of landscape resilience, and presenting (ii) examples of transferability of such outcomes in real implementation of ecological governance.

How your symposia will improve landscape ecology science?

In this session we aim to develop a practical guideline of modelling resilience in human dominated landscapes in coastal areas. The main purpose is to identify priority human disturbances and environmental/ecological factors in maintaining landscape resilience. Moreover, the session will give attention on stimulating knowledge exchange and analysis of the future trends in this topic. It will also promote research collaborations in managing landscape resilience.

Broad thematic areas

Broad thematic areas 1st choice: Landscape modelling

Broad thematic areas 2st choice: Landscape governance

Free Keywords

Landscape resilience, ecological governance, urbanization, social-ecological systems, human-environmental systems

Outcomes of symposium

Special issue in a scientific journal (to be negotiated)