
Contents

Part I Scale-dependent pattern formation	
Pattern formation in models of nonlinear plankton dynamics: a minireview <i>Horst Malchow, Frank M. Hilker</i>	3
Part II Identification of relevant scales	
Detecting critical scales in invertebrate dispersal <i>Fred Jopp</i>	23
Do organisms use landscapes at certain spatial scales? A null model for diversity pattern in relation to the spatial extend of landscapes <i>Carsten F. Dormann, Ralf Seppelt</i>	35
Part III Multiple scales	
Analysis of vegetation pattern by integrating aspects of multiple spatial scales in former lignite mining sites <i>Birgit Felinks</i>	45
A multi-scale analysis of the relative importance of habitat features and landscape context on species richness of carabids <i>Jens Dauber, Tobias Purtauf</i>	63
Comparison of habitat preference in a generalist and a specialist herbivorous beetle on multiple spatial scales <i>Elisabeth Obermaier, Annette Heisswolf, Barbara Randlkofer</i>	77

Part IV Scales and applications

Up-scaling the environmental effects of genetically modified plants – Assessing potential impact on nature conservation areas in Northern Germany
Hauke Reuter, Ulrike Middelhoff, Gunther Schmidt, Wilhelm Windhorst, Winfried Schröder, Broder Breckling 95

How does landscape planning deal with ecological scales?
Martin Szaramowicz 111