

"Autecology" spells out in full and for the first time the theoretical structure, methodology and philosophy of the science of autecology. The autecological approach focuses on the interactions of individual organisms (and their species-specific adaptations) with the spatio-temporal dynamics of their environment as a basis for interpreting patterns of diversity and abundance in natural systems. This organism-based approach to ecological interpretation provides a strong alternative to more traditional approaches and relates mechanistically to the underlying disciplines of anatomy, physiology and behavior. Autecological interpretations also have implications for understanding evolutionary processes.

"Autecology" will be of central interest to all ecologists, including those working in applied fields such as biological control, conservation and management, biogeography, invasion research, Quaternary ecology, climate research and evolutionary biology. The presentation is well illustrated throughout with specific examples, graphs, maps and other diagrams, and will make an ideal textbook.

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6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487
711 Third Avenue
New York, NY 10017
2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

