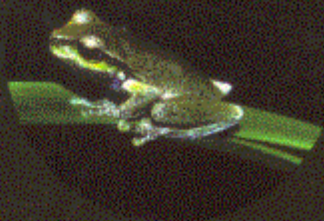


Bayesian Methods for Ecology



The interest in using Bayesian methods in ecology is increasing, but most ecologists do not know how to carry out the required analyses. This book bridges that gap. It describes Bayesian approaches to analysing averages, frequencies, regression, correlation and analysis of variance in ecology. This book also incorporates case studies to demonstrate mark-recapture analysis, development of population models and the use of subjective judgement. The advantages of Bayesian methods including the incorporation of any relevant prior information and the ability to assess the evidence in favour of competing hypotheses are also described here. The analyses described in this book use the freely available software, WinBUGS, and there is an accompanying website containing the data files and WinBUGS codes that are used in the book. The Bayesian methods described here will be of use to ecologists at the level of upper undergraduate and above.

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