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A Primer of Ecological Statistics Nicholas J. Gotelli , Aaron M. Ellison , Senior Ecologist and Senior Research Fellow Harvard Forest Aaron M Ellison Sinauer Associates Publishers , 2004 - Science - 510 pages

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### A Primer of Ecological Statistics, Second Edition

Uniquely, Ecological Statistics highlights the underlying links among many statistical approaches that attempt to tackle these issues. In particular, it gives readers an introduction to approaches to inference, likelihoods, generalized linear (mixed) models, spatially or phylogenetically-structured data, and data synthesis, with a strong emphasis on conceptual understanding and subsequent application to data analysis.

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A Primer of Ecological Statistics Second Edition. Nicholas J. Gotelli Aaron M. Ellison. University of Vermont. Some footnotes are purely historical, others cover mathematical and statistical proofs or details, and others are brief essays on topics in the ecological literature. As undergraduates, we both were independently enamored of Hutchinson's classic An Introduction to Population Biology (Yale University Press 1977). Statistical ecology is the subfield of statistics that focuses on the application of statistics for ecological problem solving. Statistical and mathematical analysis was an important component of early ecological studies that focused on the abundance and distribution of organisms. Most of the work was collaborative or of a consulting nature. 2 Ecological statistics. led by the US Environmental Protection Agency's Environmental Monitoring and Assessment Program (or EMAP). EMAP was designed to provide unbiased estimates of ecological condition or status with specified confidence. A probabilistic sampling framework was developed that allows for sampling of aquatic sites throughout the US at various levels of resolution and for different aquatic resources. A Primer of Ecological Statistics explains fundamental material in probability theory and experimental design for ecologists and environmental scientists. The book emphasizes a general introduction to probability theory and provides a detailed discussion of specific designs and analyses that are typically encountered in ecology and environmental science. Appropriate for us A Primer of Ecological Statistics explains fundamental material in probability theory and experimental design for ecologists and environmental scientists. The book emphasizes a general introduction to probability theory and

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