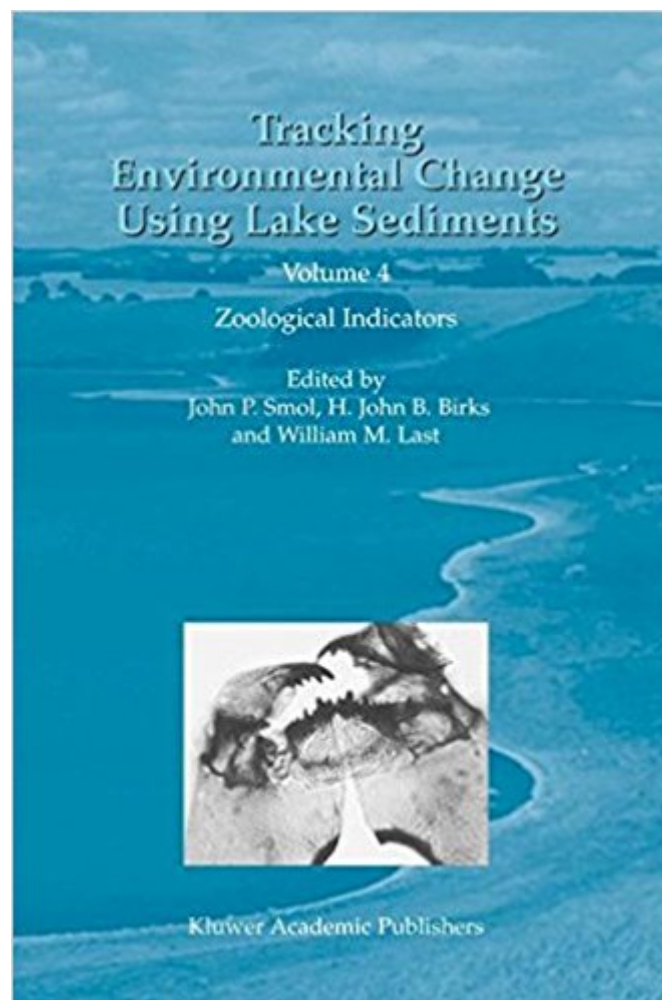




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# **Tracking Environmental Change Using Lake Sediments: Volume 4: Zoological Indicators (Developments In Paleoenvironmental Research)**



## Synopsis

Paleolimnology is a rapidly developing science that is now being used to study a suite of environmental and ecological problems. This volume is the fourth handbook in the Developments in Paleoenvironmental Research book series. The first volume (Last & Smol, 2001a) examined the acquisition and archiving of sediment cores, chronological techniques, and large-scale basin analysis methods. Volume 2 (Last & Smol, 2001b) focused on physical and chemical methods. Volume 3 (Smol et al. , 2001), along with this book, summarize the many biological methods and techniques that are available to study long-term environmental change using information preserved in sedimentary profiles. A subsequent volume (Birks et al. , in preparation) will deal with statistical and data handling procedures. It is our intent that these books will provide sufficient detail and breadth to be useful handbooks for both seasoned practitioners as well as newcomers to the area of paleolimnology. These books will also hopefully be useful to non-paleolimnologists (e. g. , limnologists, archeologists, palynologists, geographers, geologists, etc. ) who continue to hear and read about paleolimnology, but have little chance to explore the vast and sometimes difficult to access journal-based reference material for this rapidly expanding field. Although the chapters in these volumes target mainly lacustrine settings, many of the techniques described can also be readily applied to fluvial, glacial, marine, estuarine, and peatland environments. This current volume focuses on zoological indicators preserved in lake sediments, whilst Volume 3 focused on terrestrial, algal, and siliceous indicators.

## Book Information

Series: Developments in Paleoenvironmental Research (Book 4)

Hardcover: 218 pages

Publisher: Springer; 1st Corrected ed. 2001. Corr. 2nd printing 2004 edition (June 30, 2002)

Language: English

ISBN-10: 1402006586

ISBN-13: 978-1402006586

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

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## Customer Reviews

"This book is an excellent compendium of modern uses and techniques of various zoological indicators (other than protozoa, rotifers and sponges). The editors have done a superb job in keeping the chapters broadly focused and aimed at the introductory level, making the content of this volume accessible to other specialist and non-specialist alike from a variety of disciplines." (Lisa E. Park, Dept. of Geology, University of Akron, OH, USA in Journal of Paleolimnology, 30:4)

John P. Smol is a professor in the Biology Department at Queen's University (Canada), with a cross-appointment at the School of Environmental Studies. He co-directs the Paleoecological Environmental Assessment and Research Lab (PEARL). Professor Smol is co-editor of the Journal of Paleolimnology and holds the Canada Research Chair in Environmental Change. William M. Last is a professor in the Department of Geological Sciences at University of Manitoba (Canada) and is co-editor of the Journal of Paleolimnology.

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