

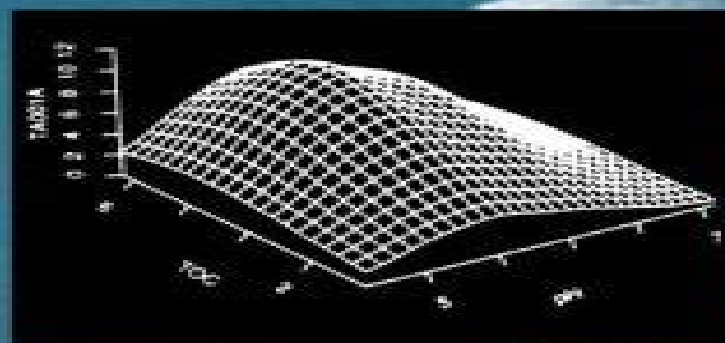
Tracking Environmental Change Using Lake Sediments

Volume 5

Data Handling and Numerical Techniques

Edited by

H. John B. Birks, André F. Lotter
Steve Juggins and John P. Smol



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Tracking Environmental Change Using Lake Sediments

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perspectives Summary References Fly ash particles Neil Rose 319 12 Introduction A brief history Methods of extraction and enumeration Temporal distribution Spatial distribution Source apportionment The future Summary Acknowledgements References Part III Stable Isotope Techniques 13 Application of stable isotope techniques to inorganic and biogenic carbonates Emi Ito 351 Introduction Nomenclature and systematics of lake water Mg Ca and Sr Ca ratios of lake water of dissolved inorganic carbon DIC Carbonates in lake sediments Mollusks Ostracodes Charaphytes Isotope analysis Preparation of carbonate samples for isotope analysis Conclusions Summary Acknowledgments References 14 Carbon and oxygen isotope analysis of lake sediment cellulose methods and applications Brent B Wolfe Thomas W D Edwards Richard J Elgood Kristina R M Beuning 373 xi Introduction Stable isotope tracers in lake Historical development Methods Key criteria for paleohydrologic reconstruction Applications Future research directions Summary Acknowledgements References Nitrogen isotopes in palaeolimnology Michael R Talbot 15 401 Introduction Nitrogen in lakes forms and distribution Nitrogen isotopes Nitrogen isotope studies in palaeolimnology sampling and measurement Some examples Closing remarks Summary Acknowledgments References Glossary acronyms and abbreviations 441 Index 493 xiii PREFACE The explosive growth of paleolimnology over the past two decades has provided impetus for the publication of this series of monographs detailing the numerous advances and new techniques being applied to the interpretation of lake histories This is the second volume in the series and deals mainly with physical and geochemical analytical techniques Tracking Environmental Change Using Lake Sediments John P. Smol, H.J. Birks, William M. Last, 2002-06-30 This third volume in the Developments in Paleoenvironmental Research series deals with the major terrestrial algal and siliceous indicators used in paleolimnology Other volumes deal with the acquisition and archiving of lake sediment cores chronological techniques and large scale basin analysis methods Volume 1 physical and geochemical parameters and methods Volume 2 zoological techniques Volume 4 and statistical and data handling methods Volume 5 These monographs will provide sufficient detail and breadth to be useful handbooks for both seasoned practitioners as well as newcomers to the area of paleolimnology 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 Tracking Environmental Change Using Lake Sediments J. P. Smol, H. J. B. Birks, W. M. Last, 2001

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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 and Smol 2001a, examined the acquisition and archiving of sediment cores, chronological techniques, and large scale basin analysis methods. Volume 2, Last and Smol 2001b, focused on physical and chemical methods. Volume 3, Smol et al 2001, along with this book, summarizes 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, archaeologists, 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. [Tracking Environmental Change Using Lake Sediments](#) Eric Capo, Cécilia Barouillet, John P. Smol, 2023-12-19. This book, entitled Tracking Environmental Change Using Lake Sediments Volume 6, Sedimentary DNA, provides an overview of the applications of sedimentary DNA based approaches to paleolimnological studies. These approaches have shown considerable potential in providing information about the long term changes of overall biodiversity in lakes and their watersheds in response to natural and anthropogenic changes, as well as tracking human migrations over the last thousands of years. Although the first studies investigating the preservation of these molecular proxies in sediments originate from the late 1990s, the number of scientific publications on this topic has increased greatly over the last five years. Alongside numerous ecological findings, several sedimentary DNA studies have been dedicated to understanding the reliability of this approach to reconstruct past ecosystem changes. Despite the major surge of interest, a comprehensive compilation of sedimentary DNA approaches and applications has yet to be attempted. The overall aim of this DPER volume is to fill this knowledge gap. [Tracking Environmental Change Using Lake Sediments](#) John B.H. Birks, André F. Lotter, Steve Juggins, John P. Smol, 2012-04-08. Numerical and statistical methods have rapidly become part of a palaeolimnologist's tool kit. They are used to explore and summarise complex data, reconstruct past environmental variables from fossil assemblages, and test competing hypotheses about the causes of observed changes in lake biota through history.

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