

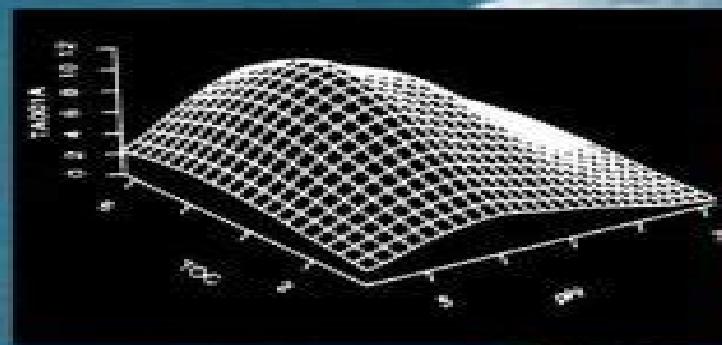
# Tracking Environmental Change Using Lake Sediments

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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**John P. Smol, H.J. Birks, William M. Last**

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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

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read about pal limnology 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.

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