

Isotopes in Palaeoenvironmental Research

Volume 10

Edited by
Melanie J. Leng



 Springer

Isotopes In Paleoenvironmental Research

Cristina I. Tica, Debra L. Martin



Isotopes In Palaeoenvironmental Research:

Isotopes in Palaeoenvironmental Research Melanie J. Leng, 2006-03-09 This thorough reference shows how stable isotopes can be applied to understanding the palaeoenvironment with chapters on the interpretation of isotopes in water tree rings bones and teeth lake sediments speleothems and marine sediments The book offers detailed advice on calibration including a multi proxy approach using isotope signals from different materials or combined with other palaeoenvironmental techniques to enhance the reliability of readings

Isotopes in Palaeoenvironmental Research Melanie J. Leng, 2006-01-27 This volume is intended to show how stable isotopes can be applied to understanding the palaeoenvironment There are chapters on the interpretation of isotopes in water tree rings bones and teeth lake sediments speleothems and marine sediments Crucial to the understanding of the environmental signal contained within the isotope composition of different materials is to gain more information about how rainfall isotope compositions are determined by climate Chapter 1 Darling et al describes O H and C stable isotope compositions in the modern day water and aqueous carbon cycles to provide a framework for the interpretation of these isotopes in the past The chapter on the water cycle divides naturally into a number of sections The starting point precipitation is especially important because it is the precursor to which most O and H isotope proxy studies are attempting to relate While much is understood about the isotope systematics of precipitation largely owing to the existence of the IAEA WMO Global Network for Isotopes in Precipitation GNIP important questions remain to be answered in relation to the isotope temperature gradients of past climatic conditions The chapter describes the three reservoirs of water sustaining all terrestrial proxies soil and vadose zone moisture groundwater and surface waters In each reservoir isotope effects intervene to modify to a greater or lesser extent the isotope signature of antecedent precipitation groundwaters are least affected and surface waters the most

Isotopes—Advances in Research and Application: 2013 Edition, 2013-06-21 Isotopes Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Nitrogen Isotopes The editors have built Isotopes Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Nitrogen Isotopes in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Isotopes Advances in Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Isotopic and Elemental Tracers of Cenozoic Climate Change Germán Mora, Donna M. Surge, 2005-01-01

Applications of Palaeoenvironmental Techniques in Estuarine Studies Kaarina Weckström, Krystyna M. Saunders, Peter A. Gell, C. Gregory Skilbeck, 2017-02-13 The aim of this

edited volume is to introduce the scientific community to paleoenvironmental studies of estuaries to highlight the types of information that can be obtained from such studies and to promote the use of paleoenvironmental studies in estuarine management Readers will learn about the the application of different paleoecological approaches used in estuaries that develop our understanding of their response to natural and human influences Particular attention is given to the essential steps required for undertaking a paleoecological study in particular with regard to site selection core extraction and chronological techniques followed by the range of indicators that can be used A series of case studies are discussed in the book to demonstrate how paleoecological studies can be used to address key questions and to sustainably manage these important coastal environments in the future This book will appeal to professional scientists interested in estuarine studies and or paleoenvironmental research as well as estuarine managers who are interested in the incorporation of paleoenvironmental research into their management programs

Bioarchaeology of Frontiers and Borderlands Cristina I. Tica, Debra L. Martin, 2019-08-21 Frontiers and territorial borders are places of contested power where societies collide interact and interconnect Using bioanthropological case studies from around the world this volume explores how people in the past created maintained or changed their identities while living on the edge between two or more different spheres of influence Examining a wide range of borderland settings essays in this volume discuss the mobility of people in Roman Egypt and investigate patterns of genetic difference in Iron Age Italy They show how social and cultural interactions helped buffer the stressful physical environment of eleventh century Iceland and describe bioarchaeological evidence of traumatic injuries indicating tension across regional borders in the precontact American Great Basin and Southwest Contributors look at isotope data skeletal stress markers craniometric and dental metric information mortuary arrangements and other evidence to examine how frontier life can affect health and socioeconomic status Illustrating the many meanings and definitions of frontiers and borderlands they question assumptions about the relationships between people place and identity As national borders continue to ignite controversy in today s society and politics the research presented here is more important than ever The long history of people who have lived in borderland areas helps us understand the challenges of adapting to these dynamic and often violent places A volume in the series Bioarchaeological Interpretations of the Human Past Local Regional and Global Perspectives edited by Clark Spencer Larsen

Carbon Isotope Stratigraphy Michael Montenari, 2020-10-30 Carbon Isotope Stratigraphy Volume Five in the Advances in Sequence Stratigraphy series covers research in stratigraphic disciplines including the most recent developments in the geosciences This fully commissioned review publication aims to foster and convey progress in stratigraphy with its inclusion of a variety of topics including Carbon isotope stratigraphy principles and applications Interpreting Phanerozoic $\delta^{13}\text{C}$ patterns as periodic glacio eustatic sequences Stable carbon isotopes in archaeological plant remains Review of the Upper Ediacaran Lower Cambrian Detrital Series in Central and North Iberia NE Africa as possible Source Area Calibrating $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ chemostratigraphic correlations across Cambrian

strata of SW and much more Contains contributions from leading authorities in the field Informs and updates on all the latest developments in the field Aims to foster and convey progress in stratigraphy including geochronology magnetostratigraphy lithostratigraphy event stratigraphy and more *Exploring Human Behavior Through Isotope Analysis* Melanie M. Beasley, Andrew D. Somerville, 2023-06-23 This edited volume compiles a series of chapters written by experts of isotopic analysis in order to highlight the utility of various isotope systems in the reconstruction of past human behaviors Rather than grouping contributions by specific isotopes or analytical techniques as many isotope review articles are arranged the volume organizes chapters by broadly defined themes of archaeological research These include paleodiet and life histories human animal interactions and migration and mobility In this sense the book is arranged with the intent of being as much question based as method based Chapters under these themes provide background information on the principles of the techniques and on the theoretical underpinnings of the research yet they are written with the non specialist in mind and attempt to convey these ideas clearly and succinctly In addition to the case studies and reviews three chapters provide greater context to the field of isotopic archaeology discussing its history basic principles and future potential The volume aims to serve as a reference source for students and practicing archaeologists seeking to apply isotopic studies to their own research projects or to act as a reader for courses in archaeological science Chapter 6 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) *Encyclopedia of Quaternary Science* Cary Mock, 2013-03-25 The second revised edition of the *Encyclopedia of Quaternary Science* Four Volume Set provides both students and professionals with an up to date reference work on this important and highly varied area of research There are lots of new articles and many of the articles that appeared in the first edition have been updated to reflect advances in knowledge since 2006 when the original articles were written The second edition will contain about 375 articles written by leading experts around the world This major reference work is richly illustrated with more than 3 000 illustrations most of them in colour Research in the Quaternary sciences has advanced greatly in the last 10 years especially since topics like global climate change geologic hazards and soil erosion were put high on the political agenda This second edition builds upon its award winning predecessor to provide the reader assured quality along with essential updated coverage Contains 357 broad ranging articles 4310 pages written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field Facilitates teaching and learning The first edition was regarded by many as the most significant single overview of Quaternary science ever yet Editor in Chief Scott Elias has managed to surpass that in this second edition by securing even more expert reviews whilst retaining his renowned editorial consistency that enables readers to navigate seamlessly from one unfamiliar topic to the next **Stable Isotopes in Ecological Research** P.W. Rundel, J.R. Ehleringer, K.A. Nagy, 2012-12-06 The analysis of stable isotope ratios represents one of the most exciting new technical advances in environmental sciences In this book leading experts offer the first survey

of applications of stable isotope analysis to ecological research Central topics are plant physiology studies food webs and animal metabolism biogeochemical fluxes Extensive coverage is given to natural isotopes of carbon hydrogen oxygen nitrogen sulfur and strontium in both terrestrial and marine ecosystems Ecologists of diverse research interests as well as agronomists anthropologists and geochemists will value this overview for its wealth of information on theoretical background experimental approaches and technical design of studies utilizing stable isotope ratios

Archaeological Chemistry A

Mark Pollard, Carl Heron, 2015-11-09 The application of chemistry within archaeology is an important and fascinating area It allows the archaeologist to answer such questions as what is this artefact made of where did it come from and how has it been changed through burial in the ground providing pointers to the earliest history of mankind Archaeological Chemistry begins with a brief description of the goals and history of archaeological science and the place of chemistry within it It sets out the most widely used analytical techniques in archaeology and compares them in the light of relevant applications The book includes an analysis of several specific archaeological investigations in which chemistry has been employed in tracing the origins of or in preserving artefacts The choice of these investigations conforms to themes based on analytical techniques and includes chapters on obsidian ceramics glass metals and resins Finally it suggests a future role for chemical and biochemical applications in archaeology Archaeological Chemistry enables scientists to tackle the fundamental issues of chemical change in the archaeological materials in order to advance the study of the past It will prove an essential companion to students in archaeological science and chemistry field and museum archaeologists and all those involved in conserving human artefacts

Stable Isotope Forensics Wolfram Meier-Augenstein, 2017-09-28 The number one guide internationally to all aspects of forensic isotope analysis thoroughly updated and revised and featuring many new case studies This edition of the internationally acclaimed guide to forensic stable isotope analysis uses real world examples to bridge discussions of the basic science instrumentation and analytical techniques underlying forensic isotope profiling and its various technical applications Case studies describe an array of applications many of which were developed by the author himself They include cases in which isotope profiling was used in murder and drugs related crime investigations as well as for pharmaceutical and food authenticity control studies Updated with coverage of exciting advances occurring in the field since the publication of the 1st edition this 2nd edition explores innovative new techniques and applications in forensic isotope profiling as well as key findings from original research More than a simple update though this edition has been significantly revised in order to address serious problems that can arise from non comparable and unfit for purpose stable isotope data To that end Part II has been virtually rewritten with greater emphasis now being placed on important quality control issues in stable isotope analysis in general and forensic stable isotope analysis in particular Written in a highly accessible style that will appeal to practitioners researchers and students alike Illustrates the many strengths and potential pitfalls of forensic stable isotope analysis Uses recent case examples to bridge underlying principles with technical

applications Presents hands on applications that let experienced researchers and forensic practitioners match problems with success stories Includes new chapters devoted to aspects of quality control and quality assurance including scale normalisation the identical treatment principle hydrogen exchange and accreditation Stable Isotope Forensics 2nd Edition is an important professional resource for forensic scientists law enforcement officials public prosecutors defence attorneys forensic anthropologists and others for whom isotope profiling has become an indispensable tool of the trade It is also an excellent introduction to the field for senior undergraduate and graduate forensic science students All students of forensic criminology and all law enforcement officers responsible for the investigation of serious crime will want to study this book Wolfram highlights the value and future potential of Stable Isotope Forensics as an emerging powerful tool in the investigation of crime Roy McComb Deputy Director Specialist Investigations National Crime Agency NCA UK A single author text in these days is rare and the value of this book lies in the dedication and experience of the author which is evident in the clarity of prose the honest illustration of evidence and the realistic practical application of the subject it makes this a text of genuine scientific value Prof Dame Sue Black PhD DBE OBE FRSE Leverhulme Research Centre for Forensic Science University of Dundee UK The book provides an excellent vivid and comprehensible introduction into the world of stable isotope science and analytics Compared to the first edition the aspects of quality control and assurance in the analysis of stable isotopes in general and forensic application in particular are now taking much more room This allows the book to serve the target groups students academic professionals and practitioners and serves as a solid resource of basic and applicable information about the strengths and potential pitfalls of the application of stable isotope signatures The present high quality book shows the great potential of stable isotopes and is a must for everyone interested in isotope forensics M E B ttcher U Flenker Isotopes in Environmental and Health Studies January 2018 A list of errata is available at <http://booksupport.wiley.com> Isotopes—Advances in Research and Application: 2012 Edition ,2012-12-26 Isotopes Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Isotopes The editors have built Isotopes Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Isotopes in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Isotopes Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Encyclopedia of Quaternary Science** ,2006-11-24 The quaternary sciences constitute a dynamic multidisciplinary field of research that has been growing in scientific and societal importance in recent years This branch of the Earth sciences links ancient prehistory

to modern environments Quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna and their immediate predecessors Quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination sea level change geologic hazards earthquakes volcanic eruptions tsunamis and soil erosion With over 360 articles and 2 600 pages many in full color the Encyclopedia of Quaternary Science provides broad ranging up to date articles on all of the major topics in the field Written by a team of leading experts and under the guidance of an international editorial board the articles are at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com 360 individual articles written by prominent international authorities encompassing all important aspects of quaternary science Each entry provides comprehensive in depth treatment of an overview topic and presented in a functional clear and uniform layout Reference section provides guidance for further research on the topic Article text supported by full color photos drawings tables and other visual material Writing level is suited to both the expert and non expert

Current Research in Phytolith Analysis Deborah M. Pearsall, Dolores R. Piperno, 1993-01-29 Paleobotanical studies are assuming an increasingly important role in archaeology providing information on prehistoric social structures environments and economic concerns This volume presents the latest applications of phytolith analysis in archaeology and paleoecology It demonstrates the versatility of the discipline MASCA Vol 10

From Ritual to Refuse: Faunal Exploitation by the Elite of Chinikihá, Chiapas, during the Late Classic Period Coral Montero López, 2022-02-17 From Ritual to Refuse explores the faunal exploitation by the Maya elite at the site of Chinikihá Chiapas during the end of the Late Classic period AD 700 850 by applying zooarchaeological and statistical analyses to a faunal assemblage located in a basurero or midden behind a palatial structure at the core of the site

Pleistocene Archaeology Rintaro Ono, Alfred Pawlik, 2020-12 This book presents an overview of recent research in the field of Pleistocene Archaeology around the world The main topics of this book are 1 human migrations particularly by Homo sapiens who have migrated into most regions of the world and settled in different environments 2 the development of human technology from early to archaic hominins and Homo sapiens and 3 human adaptation to new environments and responses to environmental changes caused by climate changes during the Pleistocene With such perspectives in mind this book contains a total of nine insightful and stimulating chapters on these topics in which human history during the time of the Pleistocene is reviewed and discussed

Stable Isotope Studies of the Water Cycle and Terrestrial Environments A-V. Bojar, A. Pelc, C. Lécuyer, 2021-11-09 This volume is devoted to Earth surface environmental reconstructions and environmental changes that may be deciphered and modelled using stable isotopes along with mineralogical chemical sedimentological palaeontological

biological and climatological methodologies The book is divided into two sections both using stable isotopes see www.geolsoc.org.uk/SP507 in various samples and phases as the main research tool The first section is devoted to studies focusing on the distribution of isotopes in precipitation groundwater lakes rivers springs tap water mine water and their relationship with terrestrial environments at regional to continental scale In relation to this the second section includes case studies from a range of continental settings investigating cave deposits stalagmites bat guano animal skeletons dinosaurs alligators turtles bivalves present and past soils palaeosols and limestones The sections focus on the interaction between the surficial water cycle and underground water storage with deposits acting as archives of short to long term climatic and environmental changes Examples from the Early Cretaceous to present time come from Europe Asia Africa North and South America

The Geologic Time Scale 2012 F M Gradstein, 2012-08-14 The Geologic Time Scale 2012 winner of a 2012 PROSE Award Honorable Mention for Best Multi volume Reference in Science from the Association of American Publishers is the framework for deciphering the history of our planet Earth The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years and the charts in this book present the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences This 2012 geologic time scale is an enhanced improved and expanded version of the GTS2004 including chapters on planetary scales the Cryogenian Ediacaran periods systems a prehistory scale of human development a survey of sequence stratigraphy and an extensive compilation of stable isotope chemostratigraphy This book is an essential reference for all geoscientists including researchers students and petroleum and mining professionals The presentation is non technical and illustrated with numerous colour charts maps and photographs The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office laboratory or field The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access Gives insights in the construction strengths and limitations of the geological time scale that greatly enhances its function and its utility Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events Meets the needs of a range of users at various points in the workflow researchers extracting linear time from rock records students recognizing the geologic stage by their content

Isotope Tracers in Catchment Hydrology C.

Kendall, J.J. McDonnell, 2012-12-02 This book represents a new earth systems approach to catchments that encompasses the physical and biogeochemical interactions that control the hydrology and biogeochemistry of the system The text provides a comprehensive treatment of the fundamentals of catchment hydrology principles of isotope geochemistry and the isotope variability in the hydrologic cycle but the main focus of the book is on case studies in isotope hydrology and isotope geochemistry that explore the applications of isotope techniques for investigating modern environmental problems Isotope Tracers in Catchment Hydrology is the first synthesis of physical hydrology and isotope geochemistry with catchment focus

and is a valuable reference for professionals and students alike in the fields of hydrology hydrochemistry and environmental science This important interdisciplinary text provides extensive guidelines for the application of isotope techniques for all investigators facing the challenge of protecting precious water soil and ecological resources from the ever increasing problems associated with population growth and environmental change including those from urban development and agricultural land uses

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