

## ***Alluvial Geoarchaeology Floodplain Archaeology And Environmental Change Cambridge Manuals In Archaeology***

This introductory text details the land surface of the earth in a readable style covering the major issues, key themes and sensitivities of the environments/landscape. Emphasizing the major ideas and their development, each chapter includes case studies and details of influential scientists (not necessarily geomorphologists) who have contributed to the progress of understanding. Providing a very clear explanation of the understanding achieved and of the debates that have arisen, the book is comprised of 12 chapters in four sections: Visualizing the land surface explains and explores the composition of the land surface and outlines how it has been studied Dynamics of the land surface considers the dynamics affecting the earth's land surface including its influences, processes and the changes that have occurred Environments of the land surface looks to understand the land surface in major world regions highlighting differences between the areas Management of the land surface is an examination of the current and future prospects of the management of the earth's land surface "Floodplains provides an overview of floodplains and their management in temperate regions. It synthesizes decades of research on floodplain ecosystems, explaining hydrologic, geomorphic and ecological processes and how these processes can provide a range of benefits to society under appropriate management. Due to the widespread alteration of temperate floodplains, these benefits are often not realized. Drawing on the framework of reconciliation ecology, the authors explore how new concepts for floodplain ecosystem restoration and management can provide a broader range of benefits to society, ranging from healthy fish populations to flood-risk reduction. Case studies from California's Central Valley and elsewhere in temperate regions show how innovative management approaches are reshaping rivers and floodplains around the world."--Provided by publisher.

One of the most significant developments in archaeology in recent years is the emergence of its environmental branch: the study of humans' interactions with their natural surroundings over long periods and of organic remains instead of the artifacts and household items generally associated with sites. With the current attention paid to human responsibility for environmental change, this innovative field is recognized by scientists, conservation and heritage managers and policymakers worldwide. In this context comes Environmental Archaeology by Elizabeth Reitz and Myra Shackley, updating the seminal 1981 text Environmental Archaeology by Myra Shackley. Rigorously detailed yet concise and accessible, this volume surveys the complex and technical field of environmental archaeology for researchers interested in the causes, consequences and potential future impact of environmental change and archaeology. Its coverage acknowledges the multiple disciplines involved in the field, expanding the

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possibilities for using environmental data from archaeological sites in enriching related disciplines and improving communication among them. Introductory chapters explain the processes involved in the formation of sites, introduce research designs and field methods and walk the reader through biological classifications before focusing on the various levels of biotic and abiotic materials found at sites, including: Sediments and soils. Viruses, bacteria, archaea, protists and fungi. Bryophytes and vascular plants. Wood, charcoal, stems, leaves and roots. Spores, pollen and other microbotanical remains. Arthropods, molluscs, echinoderms and vertebrates. Stable isotopes, elements and biomolecules. The updated Environmental Archaeology is a major addition to the resource library of archaeologists, environmentalists, historians, researchers, policymakers—anyone involved in studying, managing or preserving historical sites. The updated Environmental Archaeology is a major addition to the resource library of archaeologists, environmentalists, historians, researchers, policymakers—anyone involved in studying, managing, or preserving historical sites.

Despite the fact that the human life of the past cannot be understood without taking into account its ecological relationships, environmental studies are often marginalized in archaeology. This is the first book that, by discussing the meaning and purpose we give to the expression 'environmental archaeology', investigates the reasons for such a problem. The book is written in an accessible manner and is of interest to all students who want to understand the essence of archaeology beyond the boundary of the individual subdisciplines.

Encyclopedia of Environmental Change

Case Studies in Environmental Archaeology

Handbook of Landscape Archaeology

Environmental Reconstruction in Mediterranean Landscape Archaeology

Archaeological Landscapes of the Near East

Proceeding of a Conference Sponsored by the RMC Group Plc, 3-5 January 1991, British Museum

Processes and Management for Ecosystem Services

*Geoarchaeology in Action provides much-needed 'hands on' methodologies to assist anyone conducting or studying geoarchaeological investigations on sites and in landscapes, irrespective of date, place and environment. The book sets out the essential features of geoarchaeological practice and geomorphological processes, and is deliberately aimed at the archaeologist as practitioner in the field. It explains the basics - what can be expected, what approaches may be taken, and what outcomes might be forthcoming, and asks what we can reasonably expect a micromorphological approach to archaeological contexts, data and problems to tell us. The twelve case studies are taken from Britain, Europe and the Near East. They illustrate how past landscape change can be discovered and deciphered whether you are primarily a digger, environmentalist or soil micromorphologist. Based on the author's extensive experience of investigating buried and eroded landscapes, the book develops new ways of looking at conventional models of landscape change. With an extensive glossary, bibliography and more than 100 illustrations it will be an essential text and reference tool for students,*

*academics and professionals.*

*East Anglia has long been known for its internationally significant cultural and environmental Palaeolithic archaeology, often overshadowing the potential of its Holocene resource. This volume details the results of 8 years of palaeoenvironmental, archaeological and geoarchaeological investigations focused on the post-glacial history and evolution of the Suffolk river valleys, funded by Historic England and a number of commercial developers. The volume illustrates the largely untapped research potential of the region and provides information concerning the timing, pattern and process of alluvial development, landscape change, and human activity. The highlight of these investigations was the excavation and associated analyses of three well-preserved later prehistoric timber alignments and their environmental records, discovered during flood alleviation works on the floodplain of the lower Waveney Valley. As well as documenting these internationally significant remains, the research described includes innovative approaches to wetland archaeological and palaeoenvironmental study, highlighting important methodological considerations with respect to radiocarbon dating and chronology, applying novel geophysical approaches to site prospection, and recording wooden artefacts using 3-D laser scanning. The volume also discusses the results of groundwater monitoring of sediments containing the late prehistoric timber alignment at Beccles and considers the longer-term preservation potential of these fragile remains, which - as with other wetland archaeological sites - are at ever increasing risk from development pressures, as well as the longer term impacts of climate and environmental change.*

*Environmental Archaeology: Theoretical and Practical Approaches outlines and assesses the various methods used to reconstruct and explain the past interaction between people and their environment. Emphasising the importance of a highly scientific approach to the subject, the book combines geoarchaeological, bioarchaeological (archaeobotany and zooarchaeology) and geochronological information and examines how these various aspects of archaeology may be used to enhance our knowledge and understanding of past human environments. Drawing from both the practical experiences of the authors and cutting-edge research, Environmental Archaeology: Theoretical and Practical Approaches is a valuable contribution to the subject. It will be essential reading for students and professionals in archaeology, geography and anthropology.*

*This much-enhanced new edition of the highly accessible guide to practical archaeology is a vital resource for students. It features the latest methodologies, a wealth of case studies from around the world, and contributions from leading specialists in archaeological materials analysis. New edition updated to include the latest archaeological methods, an enhanced focus on post-excavation analysis and new material including a dedicated chapter on analyzing human remains Covers the full range of current analytic methods, such as analysis of stone tools, human remains and absolute dating Features a user-friendly structure organized according to material types such as animal bones, ceramics and stone artifacts, as well as by thematic topics ranging from dating techniques to report writing, and ethical concerns. Accessible to archaeology students at all levels, with detailed references and extensive case studies featured throughout*

*Archaeological, Palaeoenvironmental and Geoarchaeological Investigations of The Suffolk River Valleys*

*Theoretical and Practical Approaches*

*Alluvial Archaeology in Europe*

*Ol' Man River*

*Geo-archaeological Aspects of Rivers and River Plains*  
*Environmental Archaeology and the Social Order*

*This book highlights studies addressing significant anthropological issues in the Americas from the perspective of environmental archaeology. The book uses case studies to resolve questions related to human behavior in the past rather than to demonstrate the application of methods. Each chapter is an original or revised work by an internationally-recognized scientist. This second edition is based on the 1996 book of the same title. The editors have invited back a number of contributors from the first edition to revise and update their chapter. New studies are included in order to cover recent developments in the field or additional pertinent topics.*

*This volume contains the selected proceedings of a multidisciplinary conference (Ghent, 2006), which stimulated looking at landscape evolution from the times of early human involvement in nature to much more recent historical developments.*

*The Till-Tweed river catchment areas in Northumberland contain outstanding archaeological and palaeoenvironmental remains which have been in general only poorly understood. This study has assembled detailed data that will provide a platform for future landscape-based research and site-based investigation. Written from a landscape, or geoarchaeological perspective, this study develops a methodology and management tool that will allow planners, curators and developers working in the region to to easily access information across sectors, and provide a transparent and easily comprehended record of sensitive archaeological and palaeoenvironmental sites.*

*This book documents and assesses over ten years of research in the field, bringing together expertise and knowledge from the disciplines of archaeology and geomorphology, and highlighting important recent advances, discoveries and new directions. Reflecting the wide scope of current research in this area, the book contains over twenty papers focusing on various aspects of alluvial archaeology from the methodology of dating, prospecting, excavating etc, to previously under-analysed geographical areas such as intertidal wetlands.*

*Geoarchaeology*

*Archaeology in Practice*

*Good Practice in Archaeological Diagnostics*

*Methods and Applications*

*Alluvial Archaeology in Britain*

*13th International Conference on Archaeological Prospection, 28 August - 1 September 2019, Sligo - Ireland*

*Tools in Fluvial Geomorphology*

**This volume provides a broad survey of recent advances in geoarchaeology with particular attention to environmental change. The fourteen chapters include methodologically innovative research, case studies valuable for teaching, and the use of geological techniques to answer archaeological questions from lower Paleolithic hunting to the location of Homer's Ithaca. Geoarchaeology, Climate Change, and Sustainability also includes a major position paper and, unusually, two papers on the management of the geoarchaeological resource. Both the geographical and chronological coverage are broad ranging from the Lower Paleolithic (lower Pleistocene) to the Iron Age (late Holocene), and from rural Iran to urban Manhattan. The research presented here clearly demonstrates the value and practical application of geoarchaeological techniques from sediment-based dating to geographic information systems.**

**Geoarchaeological studies can significantly enhance interpretations of human prehistory by allowing archaeologists to decipher from sediments and soils the effects of earth processes on the evidence of human activity. While a number of previous books have provided broad geographic and temporal treatments of geoarchaeology, this new volume presents a single author's view intended for North American archaeologists. Waters deals with those aspects of geoarchaeology—stratigraphy, site formation processes, and landscape reconstruction—most fundamental to archaeology, and he focuses on the late Quaternary of North America, permitting in-depth discussions of the concepts directly applicable to that research. Assuming no prior geologic knowledge on the part of the reader, Waters provides a background in fundamental geological processes and the basic tools of geoarchaeology. He then proceeds to relate specific physical processes, microenvironments, deposits, and landforms associated with riverine, desert, lake, glacial, cave, coastal, and other environments to archaeological site formation, location, and context. This practical volume illustrates the contributions of geoarchaeological investigations and demonstrates the need to make such studies an integral part of archaeological research. The text is enhanced by more than a hundred line drawings and photographs.**

**CONTENTS**

- 1. Research Objectives of Geoarchaeology**
- 2. Geoarchaeological Foundations: The Archaeological Site Matrix: Sediments and Soils / Stratigraphy / The Geoarchaeological Interpretation of Sediments, Soils, and Stratigraphy**
- 3. Alluvial**

**Environments: Streamflow / Sediment Erosion, Transport, and Deposition / Alluvial Environments: Rivers, Arroyos, Terraces, and Fans / Alluvial Landscapes Evolution and the Archaeological Record / Alluvial Landscape Reconstruction 4. Eolian Environments: Sediment Erosion, Transport, and Deposition / Sand Dunes / Loess and Dust / Stone Pavements / Eolian Erosion / Volcanic Ash (Tephra) 5. Springs, Lakes, Rockshelters, and Other Terrestrial Environments: Springs / Lakes / Slopes / Glaciers / Rockshelters and Caves 6. Coastal Environments: Coastal Processes / Late Quaternary Sea Level Changes / Coastal Environments / Coastal Landscape Evolution and the Archaeological Record / Coastal Landscape Reconstruction 7. The Postburial Disturbance of Archaeological Site Contexts: Cryoturbation / Argilliturbation / Graviturbation / Deformation / Other Physical Disturbances / Floralturbation / Faunalturbation 8. Geoarchaeological Research Appendix A: Geoarchaeological Studies Illustrating the Effects of Fluvial Landscape Evolution on the Archaeological Record Appendix B: Geoarchaeological Studies Illustrating Site-Specific Synchronic and Diachronic Alluvial Landscape Reconstructions Appendix C: Geoarchaeological Studies Illustrating Regional Synchronic and Diachronic Alluvial Landscape Reconstructions**

**A guide to the systematic understanding of the geoarchaeological matrix Reconstructing Archaeological Sites offers an important text that puts the focus on basic theoretical and practical aspects of depositional processes in an archaeological site. It contains an in-depth discussion on the role of stratigraphy that helps determine how deposits are organised in time and space. The authors — two experts in the field — include the information needed to help recognise depositional systems, processes and stratigraphic units that aid in the interpreting the stratigraphy and deposits of a site in the field. The book is filled with practical tools, numerous illustrative examples, drawings and photos as well as compelling descriptions that help visualise depositional processes and clarify how these build the stratigraphy of a site. Based on the authors' years of experience, the book offers a holistic approach to the study of archaeological deposits that spans the broad fundamental aspects to the smallest details. This important guide: Offers information and principles for interpreting natural and anthropogenic sediments and physical processes in sites Provides a framework for reconstructing the history of a deposit and the site Outlines the fundamental principles of**

**site formation processes** Explores common misconceptions about what constitutes a deposit  
**Presents a different approach for investigating archaeological stratigraphy based on sedimentary principles** Written for archaeologists and geoarchaeologists at all levels of expertise as well as senior level researchers, **Reconstructing Archaeological Sites** offers a guide to the theory and practice of how stratigraphy is produced and how deposits can be organised in time and space.

**This book presents a balanced combination of practical and theoretical aspects of geoarchaeology. To do so, it gathers all the components of a natural framework (geology, relief, hydrography, climate, soils, flora and fauna), which have been analyzed from an archaeological perspective. While globally this is a highly developed and researched area, unfortunately in Romania it is still a largely neglected field of study, as limited funds are available. However, the country has a huge potential and international researchers have applied geoarchaeological methods and techniques and published results in numerous journals. This area is important because traces of the Chalcolithic population (Cucuteni culture) have been discovered here. The culture is considered to be the oldest one in Europe, and is highly significant for Romanian as well as European archaeology. The degradation of these settlements is the main core of the work, with illustrative case studies offering insights into the natural and, in some cases, anthropic effects on the sites.**

**Studies in Soil Micromorphology and Landscape Evolution**

**Non-invasive Survey of Complex Archaeological Sites**

**Dealing with biases**

**A Geomorphological-Geochemical Approach to Site Assessment and Remediation**

**The Earth's Land Surface**

**Interdisciplinary Approaches**

**Persistent Traditions**

*Accessibly written by a team of international authors, the Encyclopedia of Environmental Change provides a gateway to the complex facts, concepts, techniques, methodology and philosophy of environmental change. This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of*

*environmental change: Diverse evidence of environmental change, including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide-ranging local, regional and global impacts from the polar regions to the tropics Responses of geo-ecosystems and human-environmental systems in the face of past, present and future environmental change Approaches, methodologies and techniques used for reconstructing, dating, monitoring, modelling, projecting and predicting change Social, economic and political dimensions of environmental issues, environmental conservation and management and environmental policy Over 4,000 entries explore the following key themes and more: Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one-line definitions to short essays, making this an invaluable companion for any student of physical geography, environmental geography or environmental sciences.*

*Very Good, No Highlights or Markup, all pages are intact.*

*This volume brings together contributions from an experienced group of archaeologists and geologists whose common objective is to present thorough and current reviews of the diverse ways in which methods from the earth sciences can contribute to archaeological research. Many areas of research are addressed here, including artifact analysis and sourcing, landscape reconstruction and site formation analysis, soil micromorphology and geophysical exploration of buried sites.*

*Many fundamental studies of the origins of states have built upon landscape data, but an overall study of the Near Eastern landscape itself has never been attempted. Spanning thousands of years of history, the ancient Near East presents a bewildering range of landscapes, the understanding of which can greatly enhance our ability to infer past political and social systems. Tony Wilkinson now shows that throughout the Holocene humans altered the Near Eastern environment so thoroughly that the land has become a human artifact, albeit one that retains the power to shape human societies. In this trailblazing book—the first to describe and explain the development of the Near Eastern landscape using archaeological data—Wilkinson identifies specific landscape signatures for various regions and periods, from the early stages of complex societies in the fifth to sixth millennium B.C. to the close of the Early Islamic period around the tenth century A.D. From Bronze Age city-states to colonized steppes, these signature landscapes of irrigation systems, tells, and other features changed through time along with changes in social, economic, political, and environmental conditions. By weaving together the record of the human landscape with evidence of settlement, the environment, and social and economic conditions, Wilkinson provides a holistic view of the ancient Near East that complements archaeological*



*excavations, cuneiform texts, and other conventional sources. Through this overview, culled from thirty years' research, Wilkinson establishes a new framework for understanding the economic and physical infrastructure of the region. By describing the basic attributes of the ancient cultural landscape and placing their development within the context of a dynamic environment, he breaks new ground in landscape archaeology and offers a new context for understanding the ancient Near East.*

*Floodplain Archaeology and Environmental Change*

*Reconstructing Archaeological Sites*

*A North American Perspective*

*Contaminated Rivers*

*Landforms and Processes in Geomorphology*

*Practical and Theoretical Geoarchaeology*

*Archeologica Data, 2, 2022*

*This book gives a comprehensive view of the strengths and limits of the interdisciplinary methods that work together to form the geohistorical approach to geographical and geological sciences. The geohistorical approach can be synthetically defined as a multi- and interdisciplinary approach that uses techniques and perspectives, mainly from geography, history, and natural sciences, to examine topics that inform the space-time knowledge of environment, territory, and landscape. The boundary between the application of physical and human science methods is large and hazy. This volume exists at this boundary and offers an approach that utilizes both historical data (from both physical and human records) and GIScience (e.g. GIS, cartography, GPS, remote sensing) to investigate the evolution of the environment, territory and landscape through both space and time. The first objective of this volume is to define the term geohistorical approach. An entire chapter focuses on a review of the main disciplines that connect geography and history, a review of the terms environment, territory, and landscape as objects of study of this approach, and the definition and importance of the geohistorical approach. The second goal is to describe the methods used in the geohistorical approach. Eight chapters present the key methods also using examples of applications from the international context, offering an awareness of the potentials, limitations and accuracy of each method, with particular focus on the integration of methods. The third goal is to provide case studies to demonstrate the use and integration of geohistorical methods from both original material and published research. A final chapter is dedicated to an interdisciplinary case study from the Venetian Plain (Italy), providing an example of the integration of almost all methods described in the book.*

***This comprehensive technical manual is designed to give archaeologists the necessary background knowledge in environmental science required to excavate and analyze archaeological sites by rivers and on floodplains. Bringing together information on the evolution and exploitation of floodplain and river landscapes, this text draws on examples from Britain, Europe, North America and Australasia. An important theme is the interaction between climatic and cultural forces and the transformation of riverine environments.***

***Presenting a wide variety of case studies, ranging from the early Palaeolithic to Post-modernity, and from Europe to the Andes, West and East Africa, and the USA, Environmental Archaeology and the Social Order deals with both the theory and method of environmental archaeology. Including significant sections on Neanderthals, Palaeolithic mobiliary art and the origins of farming, as well as transhumance, climate as social construct, field survey and the place of documents in environmental research, Professor Evans interprets his findings in social constructionist terms, creating an important argument against the use of traditional materialist and processualist paradigms. This original and controversial volume sets a new agenda for the study and understanding of environmental archaeology, and will prove an informative and useful purchase.***

***Practical and Theoretical Geoarchaeology, Second Edition, provides an invaluable and vastly updated overview of geoarchaeology and how it can be used effectively in the study of archaeological sites and contexts. Taking a pragmatic and functional approach, this book presents: a fundamental, broad-based perspective of the essentials of modern geoarchaeology in order to demonstrate the breadth of the approaches and the depth of the problems that it can tackle. the rapid advances made in the area in recent years, but also gives the reader a firm grasp of conventional approaches. covers traditional topics with the emphasis on landscapes, as well as anthropogenic deposits and site formation processes and their investigation. provides guidelines for the presentation of field and laboratory methods and the reporting of geoarchaeological results. essential reading for archaeology undergraduate and graduate students, practicing archaeologists and geoscientists who need to understand and apply geoarchaeological methodologies, and help foster the dialog among diverse researchers investigating archaeological sites. Practical and Theoretical Geoarchaeology, Second Edition, is an ideal resource for undergraduate and graduate students in archaeology, and a great practical reference for practicing archaeologists and geoscientists who need to understand and apply geoarchaeological methodologies internationally.***

***An Interdisciplinary Approach  
Three Volume Set***

***New Directions in Archaeological Science***

***A Student Guide to Archaeological Analyses***

***Hydrogeomorphic Risk Analysis Affecting Chalcolithic Archaeological Sites from Valea Oii (Bahlui) Watershed, Northeastern Romania***

***Earth Sciences and Archaeology***

***Proceedings of an International Conference, Leeds, 18-19 December 2000***

*This volume presents over 90 papers from the 13th International Conference on Archaeological Prospection 2019, Sligo. Papers address archaeological prospection techniques, methodologies and case studies from 33 countries across Africa, Asia, Australasia, Europe and North America, reflecting current and global trends in archaeological prospection.*

*Fluvial Geomorphology studies the biophysical processes acting in rivers, and the sediment patterns and landforms resulting from them. It is a discipline of synthesis, with roots in geology, geography, and river engineering, and with strong interactions with allied fields such as ecology, engineering and landscape architecture. This book comprehensively reviews tools used in fluvial geomorphology, at a level suitable to guide the selection of research methods for a given question. Presenting an integrated approach to the interdisciplinary nature of the subject, it provides guidance for researchers and professionals on the tools available to answer questions on river restoration and management. Thoroughly updated since the first edition in 2003 by experts in their subfields, the book presents state-of-the-art tools that have revolutionized fluvial geomorphology in recent decades, such as physical and numerical modelling, remote sensing and GIS, new field techniques, advances in dating, tracking and sourcing, statistical approaches as well as more traditional methods such as the systems framework, stratigraphic analysis, form and flow characterisation and historical analysis. This book: Covers five main types of geomorphological questions and their associated tools: historical framework; spatial framework; chemical, physical and biological methods; analysis of processes and forms; and future understanding framework. Provides guidance on advantages and limitations of different tools for different applications, data sources,*

equipment and supplies needed, and case studies illustrating their application in an integrated perspective. It is an essential resource for researchers and professional geomorphologists, hydrologists, geologists, engineers, planners, and ecologists concerned with river management, conservation and restoration. It is a useful supplementary textbook for upper level undergraduate and graduate courses in Geography, Geology, Environmental Science, Civil and Environmental Engineering, and interdisciplinary courses in river management and restoration.

This book provides an introductory understanding of fluvial geomorphic principles and how these principles can be integrated with geochemical data to cost-effectively characterize, assess and remediate contaminated rivers. The book stresses the importance of needing to understand both geomorphic and geochemical processes. Thus, the overall presentation is first an analysis of physical and chemical processes and, second, a discussion of how an understanding of these processes can be applied to specific aspects of site assessment and remediation. Such analyses provide the basis for a realistic prediction of the kinds of environmental responses that might be expected, for example, during future changes in climate or land-use.

This books explores the bias that is introduced by erosion and sedimentation on the distribution of archaeological materials in Mediterranean landscapes. It describes innovative and interdisciplinary work that led to the formulation of a broad range of geo-archeological approaches that are applied to two Italian areas, studied intensively by the Groningen Institute of Archaeology: the Pontine Region in South Lazio, and the Raganello Basin in North Calabria. The approaches deal with geological biases affecting the study of protohistoric remains in the sedimentary part of the Pontine plain; the development of a detailed landscape classification approach to predict and test site location preferences and survey biases in the uplands of both study areas; and the development and evaluation of an innovative computerised landscape evolution model for a test area in the Raganello Basin uplands. In addition to the presented case study, this book also shows how the three geo-archaeological approaches can be applied in a wider context to quantitatively understand how erosion and sedimentation bias our understanding

*of archaeological records.*

*Principles of Geoarchaeology*

*A long-term perspective on communities in the process of Neolithisation in the Lower Rhine Area (5500–2500 cal BC)*

*Environmental Archaeology: Meaning and Purpose*

*The Geohistorical Approach*

*Ground-penetrating Radar for Geoarchaeology*

*Managing Archaeological Landscapes in Northumberland*

*The International Encyclopedia of Geography*

**Contents include: Introduction ( K Walsh ); Palynology ( S Bottema ); A database for the palynological recording of human activity ( V Andrieu, E Brugiapaglia, R Cheddadi, M Reille and J-L de Beaulieu ); The contribution of anthracology ( J-L Vernet ); Dendroclimatology ( F Guibal ); Techniques in Landscape Archaeology ( A G Brown ); L'apport de la micromorphologie des sols ( N Fédoroff ); Reconstructing past soil environments ( R S Shiel ); The Geochemistry of Soil Sediments ( D D Gilbertson and J P Grattam ); Searching the Ports of Troy ( E Zanaggar, M Timpson, S Yazvenko and H Leiermann ); The pontine region in central Italy ( P Attema, J Delvigne and B J Haagsma ); Population pressure on agricultural resources in Karstic landscapes ( P Novacovic, H Simoni and B Music ); La Pianura padana centrale tra il Bronzo Medio ed il Bronzo finale ( M Cremaschi ); The ancient ports of Marseille and Fos, Provence, southern France ( C Vella, C Morhange and M Provansal ); The evolution of field systems in the middle Rhône valley ( J-F Berger and C Jung ); La línea de Costa en época histórica en el Golfo de Valencia ( P Carmona ); The Vallée des Baux, Southern France ( P Leveau ); The étang de Berre, southern France ( F Trément ); Geoarchaeology in mediterranean landscape archaeology ( G Barker and J Bintliff ).**

There has long been a strong collaboration between geologists and archaeologists, and the sub-field of geoarchaeology is well developed as a discipline in its own right. This book now bridges the gap between those fields and the geophysical technique of ground-penetrating radar (GPR), which allows for three-dimensional analysis of the ground to visualize both geological and archaeological materials. This method has the ability to produce images of the ground that display complex packages of materials, and allows researchers to integrate sedimentary units, soils and associated archaeological features in ways not possible using standard excavation techniques. The ability of GPR to visualize all these buried units can help archaeologists place ancient people within the landscapes and environments of their time, and understand their burial and preservation phenomena in three-dimensions. Readership: Advanced students in archaeology and geoarchaeology, as well as practicing archaeologists with an interest in GPS

techniques.

This volume represents the most important “deliverable” of the European-funded project Radio-Past ([www.radiopast.eu](http://www.radiopast.eu)). It is intended to disseminate the key results achieved in the form of methodological guidelines for the application of non-destructive approaches in order to understand, visualize and manage complex archaeological sites, in particular large multi-period settlements whose remains are still mostly buried. The authors were selected from among the project research “staff” but also from among leading international specialists who served as speakers at the two international events organized in the framework of the project (the Valle Giulia Colloquium of Rome – 2009 and the Colloquium of Ghent – 2013) and at the three Specialization Fora, the high formation training activities organized in 2010, 2011 and 2012. As such, the book offers contributions on diverse aspects of the research process (data capture, data management, data elaboration, data visualization and site management), presenting the state of the art and drafting guidelines for good practice in each field.

A comprehensive technical manual aimed at archaeologists, physical geographers, geologists and environmental scientists.

New Global Perspectives on Archaeological Prospection

Environmental Archaeology

Down By the River

Alluvial Geoarchaeology

Three geo-archaeological approaches to the hidden landscapes of Italy

Geoarchaeology in Action

Understanding the Geoarchaeological Matrix

**Over the past three decades, “landscape” has become an umbrella term to describe many different strands of archaeology. From the processualist study of settlement patterns to the phenomenologist’s experience of the natural world, from human impact on past environments to the environment’s impact on human thought, action, and interaction, the term has been used. In this volume, for the first time, over 80 archaeologists from three continents attempt a comprehensive definition of the ideas and practices of landscape archaeology, covering the theoretical and the practical, the research and conservation, and encasing the term in a global framework. As a basic reference volume for landscape archaeology, this volume will be the benchmark for decades to come. All royalties on this Handbook are donated to the World Archaeological Congress.**

**ArcheoLogica Data wants to reach an Italian and international audience of scholars, professionals, students, and, more generally, early-career archaeologists, and it accepts contributions written both in**

**Italian and English. Archeologica Data proposes to indissolubly associate data and interpretation. It embraces that global idea of archaeological data that integrates all the discipline declinations without any thematic or chronological constraints. Data is at the centre, and around lies everything that can stem from it: interpretations, hypotheses, reconstructions, applications, theoretical and methodological reflections, critical ideas, constructive discussions.**

**Archaeological Science meetings will have a personality of their own depending on the focus of the host archaeological fraternity itself. The 8th Australasian Archaeometry meeting follows this pattern but underlying the regional emphasis is the continuing concern for the processes of change in the landscape that simultaneously effect and illuminate the archaeological record. These are universal themes for any archaeological research with the increasing employment of science-based studies proving to be a key to understanding the place of humans as subjects and agents of change over time. This collection of refereed papers covers the thematic fields of geoarchaeology, archaeobotany, materials analysis and chronometry, with particular emphasis on the first two. The editors Andrew Fairbairn, Sue O'Connor and Ben Marwick outline the special value of these contributions in the introduction. The international nature of archaeological science will mean that the advances set out in these papers will find a receptive audience among many archaeologists elsewhere. There is no doubt that the story that Australasian archaeology has to tell has been copiously enriched by incorporating a widening net of advanced science-based studies. This has brought attention to the nature of the environment as a human artefact, a fact now more widely appreciated, and archaeology deals with these artefacts, among others, in this way in this publication.**

**The adoption of agriculture is one of the major developments in human history. Archaeological studies have demonstrated that the trajectories of Neolithisation in Northwest Europe were diverse. This book presents a study into the archaeology of the communities involved in the process of Neolithisation in the Lower Rhine Area (5500-2500 cal BC). It elucidates the role played by the indigenous communities in relation to their environmental context and in view of the changes that becoming Neolithic brought about. This work brings together a comprehensive array of excavated archaeological sites in the Lower Rhine Area. Their analysis shows that the succession of Late Mesolithic, Swifterbant culture, Hazendonk group and Vlaardingen culture societies represents a continuous long-term tradition of inhabitation of the wetlands and wetland margins of this area, forming a culturally continuous record of communities in**

**the transition to agriculture. After demonstrating the diversity of the Mesolithic, the subsequent developments regarding Neolithisation are studied from an indigenous perspective. Foregrounding the relationship between local communities and the dynamic wetland landscape, the study shows that the archaeological evidence of regional inhabitation points to long-term flexible behaviour and pragmatic decisions being made concerning livelihood, food economy and mobility. This disposition also influenced how the novel elements of Neolithisation were incorporated. Animal husbandry, crop cultivation and sedentism were an addition to the existing broad spectrum economy but were incorporated within a set of integrative strategies. For the interpretation of Neolithisation this study offers a complementary approach to existing research. Instead of arguing for a short transition based on the economic importance of domesticates and cultigens at sites, this study emphasises the persistent traditions of the communities involved. New elements, instead of bringing about radical changes, are shown to be attuned to existing hunter-gatherer practices. By documenting indications of the mentalité of the inhabitants of the wetlands, it is demonstrated that their mindset remained essentially 'Mesolithic' for millennia. This book is accompanied by a separate 422 page volume containing the appendices. These constitute a comprehensive inventory of 159, mostly excavated archaeological sites in the Lower Rhine Area.**

## **Floodplains**

**People, the Earth, Environment, and Technology. C-Cor**

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**The Human-Environmental Approach**

**Geoarchaeology, Climate Change, and Sustainability**

Geoarchaeology is traditionally concerned with reconstructing the environmental aspects of past societies using the methods of the earth sciences. The field has been steadily enriched by scholars from a diversity of disciplines and much has happened as the importance of global perspectives on environmental change has emerged. Carlos Cordova, provides a fully up-to-date account of geoarchaeology that reflects the important changes that have occurred in the past four decades. Innovative features include: the development of the human-ecological approach and the impact of technology on this approach; how the diversity of disciplines contributes to archaeological questions; frontiers of archaeology in the deep past, particularly the Anthropocene; the geoarchaeology of the contemporary past; the emerging field of ethno-geoarchaeology; the role of geoarchaeology in global environmental crises and climate change.

Twenty four papers from a conference on 'archaeology and the river environment' held at the British Museum in 1991. Contributors



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include: I K Bailiff (luminescence dating of alluvial deposits); A J Clark (magnetic dating of alluvial deposits; archaeological prospecting on alluvium); J G Evans/P Davies/R Mount/D Williams (molluscan taxocenes from Holocene overbank alluvium in southern England); B Coles (impact of beaver on temperate landscapes); J Lewin (alluvial sedimentation style in the Lower Vyrnwy, Wales); R Tipping (generation of major prehistoric valley fills in the Cheviot Hills); J Dinn/R Roseff (alluvium and archaeology in the Herefordshire valleys); C R Salisbury (evidence for palaeochannels in the Trent valley); P Clay (a Norman mill dam at Hemmington fields, Leicestershire); A G Brown/M K Keough (the geoarchaeological potential of some Midland floodplains); J J Wymer (Palaeoliths in alluvium); S needham (Holocene alluviation and interstratified settlement in the Thames valley); M Bell (archaeology under alluvium).

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