

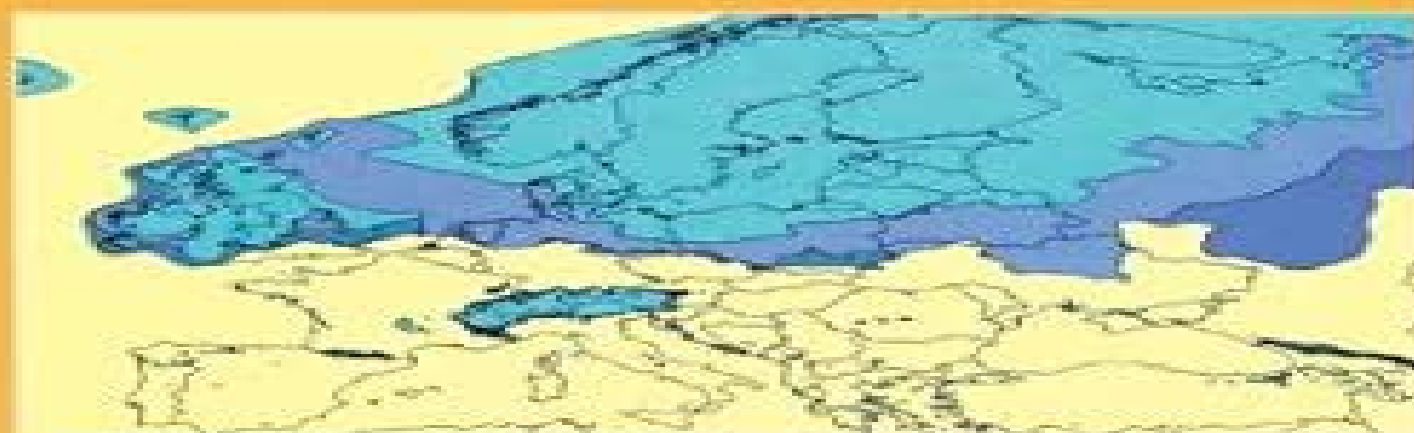


DEVELOPMENTS IN QUATERNARY SCIENCE 2
SERIES EDITOR: JIM ROSE

QUATERNARY GLACIATIONS - EXTENT AND CHRONOLOGY

PART I: EUROPE

J. EHLERS AND P.L. GIBBARD



Quaternary Glaciations Extent And Chronology Part I Europe Developments In Quaternary Science Series

**Marc Calvet, Magali Delmas, Yanni
Gunnell, Bernard Laumonier**



Quaternary Glaciations Extent And Chronology Part I Europe Developments In Quaternary Science Series:

Quaternary Glaciations - Extent and Chronology J. Ehlers, P.L. Gibbard, 2004-06-08 This book is the first of three volumes in which the recent knowledge of the extent and chronology of Quaternary glaciations has been compiled on a global scale This information is seen as a fundamental requirement not only for the glacial workers but for the wider user community of general Quaternary workers In particular the need for accurate ice front positions is a basic requirement for the rapidly growing field of palaeoclimate modelling In order to provide the information for the widest possible range of users in the most accessible form a series of digital maps was prepared The glacial limits were mapped in ArcView the Geographical Information System GIS used by the work group Digital maps showing glacial limits end moraines ice dammed lakes glacier induced drainage diversions and the locations of key sections through which the glacial limits are defined and dated are included For major parts of Europe also the extent of the maximum Eemian transgression has been indicated The digital maps in this volume cover all of Europe and parts of northwestern Siberia Both overview maps and more detailed maps are provided

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locations of key sections through which the glacial limits are defined and dated are included For major parts of Europe also the extent of the maximum Eemian transgression has been indicated The digital maps in this volume cover all of Europe and parts of northwestern Siberia Both overview maps and more detailed maps are provided *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 **Past Glacial Environments** John Menzies,Jaap van der Meer,2017-11-28 Past Glacial Environments Second Edition presents a revised and updated version of the very successful first edition of Menzies book covering a breadth of topics with a focus on the recognition and analysis of former glacial environments including the pre Quaternary glaciations The book is made up of chapters written by various geological experts from across the world with the editor s expertise and experience bringing the chapters together This new and updated volume includes at least 45% new material along with five new chapters that include a section on techniques and methods Additionally this new edition is presented in full color and features a large collection of photographs line diagrams and tables with examples of glacial environments and landscapes that are drawn from a worldwide perspective Informative knowledge boxes and case studies are included helping users better understand critical issues and ideas Provides the most complete reference concerning the study of glacial processes and their geological sedimentological and geomorphological products Comprised of chapters written by various geological experts from across the world Includes specific case studies to alert readers to important ideas and issues Uses text boxes throughout to explain key concepts from glacial literature Presents full color photographs line diagrams and tables throughout Quaternary Sea-Level Changes Colin V. Murray-Wallace,Colin D. Woodroffe,2014-01-30 There have been significant changes in sea level over the past two million years and a complete understanding of natural cycles of change as well as anthropogenic effects is

imperative for future global development This book reviews the history of research into these sea level changes and summarises the methods and analytical approaches used to interpret evidence for sea level changes It provides an overview of changing climates during the Quaternary examines processes responsible for global variability of sea level records and presents detailed reviews of sea level changes for the Pleistocene and Holocene The book concludes by discussing current trends in sea levels and likely future sea level changes This is an important and authoritative resource for academic researchers and graduate and advanced undergraduate students working in tectonics stratigraphy geomorphology physical geography environmental science and other aspects of Quaternary studies

Glaciogenic Reservoirs and Hydrocarbon Systems Mads Huuse, J. Redfern, D. P. Le Heron, R. J. Dixon (Geologist), A. Moscariello, Jonathan Craig, 2012 Glaciogenic reservoirs and hydrocarbon systems occur intermittently throughout the stratigraphic record with particular prominence in Neoproterozoic Late Ordovician Permo Carboniferous and Late Cenozoic strata Recent interest in glaciogenic successions has been fuelled by hydrocarbon discoveries in ancient glaciogenic reservoirs in North Africa the Middle East Australia and South America Glaciogenic deposits of Pleistocene age are noteworthy for their content of groundwater onshore and potentially prospective and or hazardous gas accumulations offshore The abundant imprints of Pleistocene glaciations in both hemispheres can be used to reconstruct complex histories of repeated ice cover and retreat and glacier bed interactions thus informing our view on the dynamics of older ice caps and predictions of future glaciations This volume aims to provide a better understanding of glaciogenic processes their stratigraphic record and reservoir characteristics of glaciogenic deposits The book comprises 3 overview papers and 16 original case studies of Neoproterozoic to Pleistocene successions on 6 continents and will be of interest to sedimentologists glaciologists geophysicists hydrologists and petroleum geologists alike

P 4 of cover **The Late Cenozoic of Patagonia and Tierra del Fuego** J. Rabassa, 2011-09-22 Written by highly qualified Argentine scientists and scholars this book focuses on the uninterrupted geological and paleontological record of Patagonia and Tierra del Fuego since the Miocene Pliocene boundary to the arrival of man and modern times This region is an outstanding area for research with significant interest at the international level It provides an updated overview of the scientific work in all related fields with a strong paleoclimatic approach Patagonia has also been a sort of a paleoclimatic bridge between the Antarctic Peninsula and the more northerly land masses since the final opening of the Drake Passage in the middle Miocene Timely and comprehensive The Late Cenozoic of Patagonia and Tierra del Fuego is the only monograph book written in English One stop resource for paleontological information of the Late Cenozoic of Patagonia Covers 5 million years in the uninterrupted history of Patagonia and Tierra del Fuego Comprehensive coverage of the region written by highly qualified Argentine scientists and scholars

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

Geology and Landscapes of the Eastern Pyrenees Marc Calvet, Magali Delmas, Yanni Gunnell, Bernard Laumonier, 2022-06-04 This book provides a synthesis of the physiography and geodynamics of the entire Pyrenean orogen and its foreland basins providing the big picture structure of the orogen and chronology of its formation overview of its post orogenic evolution and Quaternary and recent landscape history One part of the book proposes a 6 7 day itinerary across the eastern and east central Pyrenees two areas that currently provide the richest best documented and most carefully curated database on the post orogenic evolution of the mountain belt The book deals with three complementary topics i geodynamics i e the long term post orogenic evolution of the Pyrenees since the declining stages of tectonic collision ca 30 million years ago and within the wider reference frame of Iberia the Western Mediterranean and the Atlantic margin ii geomorphological processes and landforms that have conspired to shape the eastern part of the French and Spanish Pyrenees in response to base level and climate related changes over than same time period iii geoheritage i e educational vignettes of the flagship landscape units and typical geological sections of the study area Written as a field guide it is designed to help readers to construct discovery based itineraries through the region with options and variants depending on time and physical ability allowing them to appreciate the key landscape and geoheritage features over the course of 1 week with potential for much more This GeoGuide is primarily aimed at confirmed geoscientists from most disciplines in Earth science at postgraduate students engaged in field studies and at curiosity driven educated amateurs keen to enhance their understanding of spectacular or enigmatic features encountered on their travels

European Glacial Landscapes David Palacios, Philip D. Hughes, Vincent Jomelli, Luis M. Tanarro, 2023-10-21 *European Glacial Landscapes* The Holocene presents the current state of knowledge on glacial

landscapes of Europe and nearby areas over the Holocene to deduce the influence of atmospheric and oceanic currents and the insolation forcing variability and volcanic activity on Holocene paleoclimates the existence of asynchronies in the timing of occurrence of glacier expansion and shrinkage during the Holocene time lags between the identification of oceanic and atmospheric changes and those occurring in glacial extension during the Holocene the role of Holocene glaciers on the climate of Europe and on sea level variability and the delimitation of landscapes that need special protection Students academics and researchers in Geography Geology Environmental Sciences Physics and Earth Science departments will find this book provides novel findings of all the major European Regions in a single publication with updated information about Holocene glacial geomorphology and paleo climatology and clear figures that model the landscapes covered Provides a synthesis and summary of glacial processes in Europe over the Holocene period Features research from experts in palaeo climatology palaeo oceanography and palaeo glaciology Includes access to a companion website with an interactive map photos of glacial features and geospatial data related to European Glacial Landscapes *Quaternary of the Trent* David R. Bridgland, Andy Howard, Mark J. White, Tom S. White, 2014-03-31 This volume is an integrated overview and synthesis of available data relating to the Quaternary evolution of the River Trent It provides detailed descriptions of the Pleistocene sedimentary records from the Trent its tributaries and related drainage systems a sedimentary record that spans a period of approximately half a million years and the biostratigraphical and archaeological material preserved therein Significant new data are presented from recently discovered sites of geological and archaeological importance including previously unrecognised fluvial deposits as well as novel analyses such as mathematical modelling of fluvial incision as recorded by the river terrace deposits In combination with a thorough review of the literature on the Trent these new data have contributed to revised chronostratigraphical and palaeogeographical frameworks for central England and revealed the complexity of the Pleistocene fluvial and glacial records in this region The fragmentary Trent terrace sequence is an important element of wider reconstructions of Pleistocene palaeodrainage in Britain providing a link between the records preserved in the English Midlands and those in East Anglia *Prehistoric Ukraine* Malcolm C. Lillie, Inna D. Potekhina, 2020-09-30 This volume covers the Prehistory of Ukraine from the Lower Palaeolithic through to the end of the Neolithic periods This is the first comprehensive synthesis of Ukrainian Prehistory from earliest times through until the Neolithic Period undertaken by researchers who are currently investigating the Prehistory of Ukraine At present there are no other English language books on this subject that provide a current synthesis for these periods The chapters in this volume provide up to date overviews of all aspects of prehistoric culture development in Ukraine and present details of the key sites and finds for the periods studied The book includes the most recent research from all areas of prehistory up to the Neolithic period and in addition areas such as recent radiocarbon dating and its implications for culture chronology are considered as is a consideration of aDNA and the new insights into culture history this area of research affords alongside recent macrofossil studies of plant use and

anthropological and stable isotope studies of diet which all combine to allow greater insights into the nature of human subsistence and cultural developments across the Palaeolithic to Neolithic periods in Ukraine It is anticipated that this book will be an invaluable resource for students of prehistory throughout Europe in providing an English language text that is written by researchers who are active in their respective fields and who possess an intimate knowledge of Ukrainian prehistory

Examining Evolutionary Trends in Equus and its Close Relatives from Five Continents Raymond Louis Bernor, Gina Marie Semprebon, Florent Rivals, Leonardo Santos Avilla, Eric Scott, 2020-03-12 Evolution of the horse has been an often cited primary example of evolution as well as one of the classic and important stories in paleontology for over a century and a half due to their rich fossil record across 5 continents North America South America Europe Asia and Africa The recent horse has served a profound role in human ancestry including agriculture commerce sport transport warfare and in prehistory for the subsistence of humans Many studies have examined the evolution of the Equidae and chronicled the striking changes in skulls dentition limbs and body size which have long been perceived to be a response to environmental shifts through time Most comprehensive studies heretofore have 1 focused on the Great Transformation changes that occurred in the early Miocene 2 involved tracking long term diversity or paleoecological trends on a single continent or within a geographical locality or 3 concentrated on the 3 toed hipparions The Plio Pleistocene evolutionary stage of horse evolution is punctuated by the great climatic fluctuations of the Quaternary beginning 2.6 Ma which influenced Equus evolution biogeographic dispersion and adaptation on a nearly global scale The evolutionary biology of Equus evolution across its entire range remains relatively poorly understood and often highly controversial Some of this lack of understanding is due to assumptions that have arisen because of the relatively derived craniodental and postcranial anatomy of Equus and its close relatives which has seemed to imply that that these forms occupied relatively homogenous and narrow dietary and locomotor niches notions that have not been adequately addressed and rigorously tested Other challenges have revolved around teasing apart environmentally driven adaptation versus phylogenetically defined morphological change Geochronologic age control of localities geographic provinces and continents has improved but in no way is absolute and can be reexamined in our proposed volume Temporal resolution for paleodietary paleohabitat and paleoecological interpretations are also challenging for understanding the evolution of Equus Our proposed volume attempts to assemble a group of experts who will address multiple dimensions of Equus evolution in time and space

Iceland - Modern Processes and Past Environments C. Caseldine, A. Russell, J. Hardardóttir, O. Knudsen, 2005-04-28 Iceland provides an unique stage on which to study the natural environment both past and present and it is understanding both aspects of reconstructing the past and observing and interpreting the present that form the focus of the contributions to this volume The papers are all written by active researchers and incorporate both reviews and new data Although concentrating largely on the recent Quaternary timescale a wide range of topics is explored including subglacial volcanism onshore and offshore evidence for the Last Glacial

Maximum and subsequent deglaciation current glacial characteristics including j kulhlaups and glacial landsystems soil development Holocene ecosystem change current oceanography impacts of volcanic sulphur loading chemical weathering and the CO₂ budget and documentary evidence for historical climate The key element of the volume is that for the first time it provides a wide overview of a range of topics for which Iceland provides an almost unparalleled laboratory emphasizing the importance of research on this small island for studies over a much broader global scale These reviews point the way to future research directions and are supplemented by extensive illustrations and a comprehensive bibliography Wide range of related topics covered both from a present day and quaternary perspective Reviews from scientists active in each research area across a range of subjects providing both overviews and new data supplemented by an extensive bibliography Extensive illustrations and examples from the field

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