

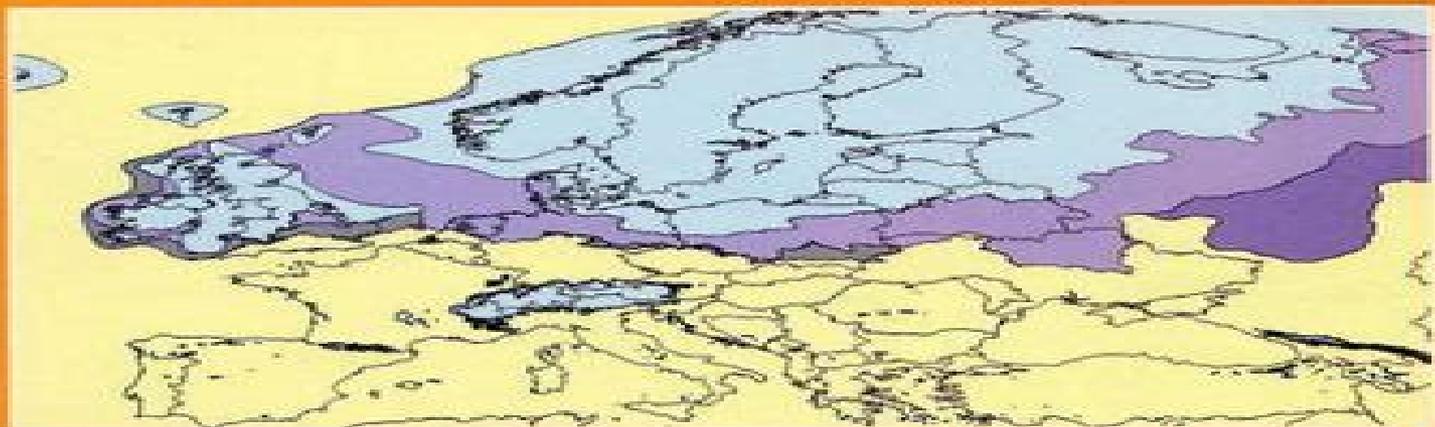


DEVELOPMENTS IN QUATERNARY SCIENCE 2  
SERIES EDITOR: JIM ROSE

# 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

**J. Ehlers, P.L. Gibbard**



## **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 Quaternary Glaciations Jürgen Ehlers, Philip Leonard Gibbard, 2004 Accompanying CD ROM contains 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 pt 1 p 4 of cover *Quaternary Glaciations - Extent and Chronology* J. Ehlers, P.L. Gibbard, 2004-10-02 This book is the second 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 community 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 Included with the publication is a CD with 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 The last deglaciation is also shown in 500 year time steps The digital maps in this volume cover the USA and Canada and include Greenland and Hawaii Both overview maps and more detailed maps at a scale 1:1 000 000 are provided Also available Part I Europe ISBN 0 444 51462 7 Part III South America Asia Africa Australia Antarctica ISBN 0 444 51593 3 *Quaternary Glaciations - Extent and Chronology* J. Ehlers, P.L. Gibbard, Philip D. Hughes, 2011-06-29 The book presents an up to date detailed overview of the Quaternary glaciations all over the world not only with regard to stratigraphy but also with regard to major glacial landforms and the extent of the respective ice sheets The locations of key sites are included The information is presented in digital uniformly prepared maps which can be used in a Geographical Information System GIS such as ArcView or ArcGIS The accompanying text supplies the information on how the data were obtained

geomorphology geological mapping air photograph evaluation satellite imagery how the features were dated 14C TL relative stratigraphy and how reliable they are supposed to be All references to the underlying basic publications are included Where controversial interpretations are possible e.g. in Siberia or Tibet this is pointed out As a result the information on Quaternary glaciations worldwide will be much improved and supplied in a uniform digital format The information on the glacial limits is compiled in digital form by the coordinators of the project and is available for download at <http://booksite.elsevier.com/9780444534477> Completely updated detailed coverage of worldwide Quaternary glaciations Information in digital uniformly prepared maps which can be used in a GIS such as ArcView or ArcGis Step by step guideline how to open and use ArcGis files Possibility to convert the shapefiles into GoogleEarth kmz files Availability of chronological controls

*Early-Middle Pleistocene Transitions* Geological Society of London, 2005 The Early Middle Pleistocene transition around 1.2 to 0.5 Ma marks a profound shift in Earth's climate state Low amplitude 41 ka climate cycles dominating the earlier part of the Pleistocene gave way progressively to a 100 ka rhythm of increased amplitude that characterizes our present glacial interglacial world This volume assesses the biotic and physical response to this transition both on land and in the oceans indeed it examines the very nature of Quaternary climate change Milankovitch theory palaeoceanography using isotopes and microfossils marine organic geochemistry tephrochronology the record of loess and soil deposition terrestrial vegetational change and the migration and evolution of hominins as well as other large and small mammals are all considered These themes combine to explore the very origins of our present biota

*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

*European Glacial Landscapes* David Palacios, Philip D. Hughes, Jose M. Garcia-Ruiz, Nuria de Andrés, 2021-11-19 *European Glacial Landscapes* Maximum Extent of Glaciations brings together relevant experts on the history of glaciers and their impact on the landscape of the main regions of Europe In some regions the largest recorded glaciations occurred before the Last Glacial Cycle in one of the major glacial cycles of the Middle Pleistocene However the best preserved evidence of glaciation in the landscape is from the Last Glacial

Cycle Late Pleistocene The book also analyses these older glacial landforms that can sometimes still be seen in the landscape today This analysis provides a better understanding of the succession of Pleistocene glaciations and the intervening interglacial periods examining their possible continental synchrony or asynchrony of past glacier behaviour The result of this analysis gives important new insights and information on the origin and effects of climatic and geomorphological variability across Europe

**European Glacial Landscapes Maximum Extent of Glaciations** examines the landscapes produced by glaciers throughout Europe the geomorphological effects of glaciations as well as the chronology and evolution of the past glaciers with the aim of understanding the interrelationship between glacial expansion and climate changes on this continent This book is a valuable tool for geographers geologist environmental scientists researchers in physics and earth sciences Provides a synthesis that highlights the main similarities or differences through both space and time during the maximum recorded expansions of Pleistocene glaciers in Europe

**Features** research from experts in glacial geomorphology palaeo glaciology palaeo climatology and palaeo oceanography on glacial expansion in Europe Includes detailed color figures and maps providing a comprehensive comparison of the glacial landscapes of European Pleistocene glaciers

**Quaternary Sea-Level Changes** Colin V. Murray-Wallace, Colin D. Woodroffe, 2014-01-30 An important overview of Quaternary climates including detailed Pleistocene and Holocene sea level changes for researchers and graduate and advanced undergraduate students

**Polar Environments and Global Change** Roger G. Barry, Eileen A. Hall-McKim, 2018-08-09 Surveys atmospheric oceanic and cryospheric processes present and past conditions and changes in polar environments

**Quaternary Glaciation in the Mediterranean Mountains** P.D. Hughes, J.C. Woodward, 2017-01-30 The mountains of the Mediterranean world are now largely ice free but many were repeatedly glaciated during the Quaternary ice age This created spectacular glaciated landscapes with a rich array of glacial deposits and landforms The glacial and glacio fluvial records are often very well preserved and our understanding of the timing of Quaternary glaciation has very recently been transformed through the application of dating methods utilizing uranium series and cosmogenic isotopes Glacial records from the Mediterranean now boast some of the most robust chronologies for mountain glaciation anywhere in the world they represent a unique archive of Quaternary environmental change of global significance The southerly latitude and relatively small size of Mediterranean glaciers rendered them especially sensitive to Pleistocene and Holocene climate changes This volume brings together the leading researchers and the latest research on Mediterranean glaciation Several papers also explore glacier behaviour in the Holocene including those glaciers of southernmost Europe at risk of disappearing this century

**The Quaternary of the U.S.** Herbert Edgar Wright, David G. Frey, 2015-12-08 This important volume reviews the status of investigations aimed at deciphering the geologic biogeographic and archaeological records for the Quaternary Era the last million years of geologic time for the area of continental United States Over eighty Quaternary scientists have contributed to the fifty five chapters divided into four main parts Part 1 treats the areal geology with emphasis on the stratigraphy of the glaciated areas east of

the Rocky Mountains unglaciated eastern and central United States and western United States Part 2 deals with biogeography phytogeography and palynology animal geography and evolution Part 3 deals with archaeology prehistory in the northeastern states southeastern states plains desert west and Pacific Coast including Alaska Part 4 covers many diverse Quaternary studies on the continental shelves isotope geochemistry paleopedology the geochemistry of some lake sediments paleohydrology glaciers and climate volcanic ash chronology paleomagnetism neo tectonics dendrochronology and theoretical paleoclimatology Originally published in 1965 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

**The Geology of Scotland, 4th edition** N. H. Trewin, 2003-02-24 This 4th edition of The Geology of Scotland is greatly expanded from the previous edition with 34 authors contributing to 20 chapters A new format has been adopted to provide a different perspective on the geology of Scotland A brief introduction is followed by a chapter outlining some of the important historical aspects that in the 19th century placed Scottish geologists in the forefront of a new science Scotland is constructed from a number of terranes that finally combined in roughly their present positions prior to about 410 million years ago Thus the geology of each terrane is described up the time of amalgamation providing chapters on the Southern Uplands Midland Valley Highlands Grampian and Hebridean terranes At the end of this section a brief synthesis summarizes the events that resulted in the amalgamation of the various terranes into the present configuration Traditional practice is followed in the description of the Old Red Sandstone Carboniferous Permo Trias Jurassic Cretaceous tertiary and Quaternary strata A separate chapter covers Tertiary igneous rocks An attempt is made to tell the story of the geological evolution of Scotland rather than catalogue all areas and formations Priority is given to the onshore geology encouraging the reader to go into the field and visit some of the world class geology on show in Scotland The chapters are broadly based attempting to integrate the sedimentary and igneous histories and summarize changes in palaeogeography and palaeoenvironments Economic aspects are covered with chapters on Metalliferous Minerals Bulk Resources Coal and Hydrocarbons A new departure is the chapter on aspects of Environmental Geology and sustainability Additionally this publication contains a colour section of 32 plates illustrating aspects of Scottish Geology as well as a coloured geological map of Scotland

**Quaternary Glaciations - Extent and Chronology** J. Ehlers, P.L. Gibbard, 2004-10-02 This book is the last 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 community 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 Included with the publication is a CD with 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 Where controversial interpretations are possible such as for High Asia they are indicated All information on Quaternary glaciations worldwide is presented for the first time in a uniform format including the mountain glaciations of regions such as Costa Rica Ethiopia or Taiwan The digital maps in this volume cover Latin America Asia Africa Australasia Antarctica Both overview maps and more detailed maps at a scale 1:1 000 000 are provided Also available Part I Europe ISBN 0 444 51462 7 Part II North America ISBN 0 444 51592 5 Submerged Landscapes of the European Continental Shelf Nicholas C. Flemming, Jan Harff, Delminda Moura, Anthony Burgess, Geoffrey N. Bailey, 2017-08-07 Quaternary Paleoenvironments examines the drowned landscapes exposed as extensive and attractive territory for prehistoric human settlement during the Ice Ages of the Pleistocene when sea levels dropped to 120m-135m below their current levels This volume provides an overview of the geological geomorphological climatic and sea level history of the European continental shelf as a whole as well as a series of detailed regional reviews for each of the major sea basins The nature and variable attractions of the landscapes and resources available for human exploitation are examined as are the conditions under which archaeological sites and landscape features are likely to have been preserved destroyed or buried by sediment during sea level rise The authors also discuss the extent to which we can predict where to look for drowned landscapes with the greatest chance of success with frequent reference to examples of preserved prehistoric sites in different submerged environments Quaternary Paleoenvironments will be of interest to archaeologists geologists marine scientists palaeoanthropologists cultural heritage managers geographers and all those with an interest in the drowned landscapes of the continental shelf

**Quaternary Dating Methods** Mike Walker, 2013-04-30 This introductory textbook introduces the basics of dating the range of techniques available and the strengths and limitations of each of the principal methods Coverage includes the concept of time in Quaternary Science and related fields the history of dating from lithostratigraphy and biostratigraphy the development and application of radiometric methods different methods in dating radiometric dating incremental dating relative dating and age equivalence Presented in a clear and straightforward manner with the minimum of technical detail this text is a great introduction for both students and practitioners in the Earth Environmental and Archaeological Sciences Praise from the reviews This book is a must for any Quaternary scientist SOUTH AFRICAN GEOGRAPHICAL JOURNAL September 2006 very well organized clearly and straightforwardly written and provides a good overview on the wide field of Quaternary dating methods JOURNAL OF QUATERNARY SCIENCE January 2007 *The Glaciers of Iceland* Helgi Björnsson, 2016-10-04 This book is the first comprehensive overview and evaluation of the origins history and current size

and condition of all of Iceland's major glaciers including Vatnajökull the largest in Europe at the beginning of the twenty first century. It is not only illustrated with many beautiful photographs and graphs of recent statistics and scientific data but is also a collection of historical writings and drawings from annals, sagas, folk tales, diaries, reports, stories and poems as it presents a unique approach to the study of glaciers on an island in the North Atlantic. Balancing and comparing the world of man with the world of nature, the perceptions of art and culture with the systematic and pragmatic analyses of science. The *Glaciers of Iceland* present a wide spectrum of readers with a new and stimulating view of the origins, development and possible future of these massive natural phenomena as well as the study and role of glaciology within specific time lines and geographical locations. Icelandic glaciers, the author argues, could prove essential for understanding the current unsettling progress of global warming. The *Glaciers of Iceland* therefore aims at presenting to a wide readership an original historical, cultural and scientific overview of these geophysical features in Iceland while also suggesting increasingly important lessons and models for man's future interaction with the world's glaciers as a whole.

**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.

**Quaternary Glaciation History and Glaciology of Jakobshavn Isbrae and the Disko Bugt Region, West Greenland** Anker Weidick, Ole Bennike, 2007

**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.

*Atlas of Paleoclimates and Paleoenvironments of the Northern Hemisphere*  
B. Frenzel, M. Pecsí, 1992-05-01

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