Glacial Deposits In Northwest Europe

Glacial Deposits in Northeast Europe: Ehlers 2020-08-27 Until now no overview of the Quaternary deposits of northeastern Europe has been available. This book fills the gap. It presents the state of research on Quaternary stratigraphy and geology, with emphasis on glacial deposits, discusses the general scientific ideas and gives an overview of the methods of investigation, some of which have rarely been applied elsewhere. It has become apparent that the region covered has many environmental problems, and a proper understanding of the Quaternary deposits is a basic requirement for dealing with them. The same is true for civil engineering. In the formerly glaciated areas almost all construction sites for roads and houses will encounter glacial deposits. This volume provides an authoritative and fascinating overview for anyone planning to venture into this field. In its 53 regional chapters the book covers Finland, Estonia, Latvia, Lithuania, Russia, Ukraine, Belarus, Poland, the Czech Republic and eastern Germany. From the text it becomes clear that not all the stratigraphical schemes are yet fully compatible or comprehensible. There can be no doubt, however, that the east was subjected to very extensive ice advances during the earlier Pleistocene. Also, in contrast to western Europe, there was a significant Early Weichselian ice advance, although not as extensive as the last, Late Weichselian event. The book is illustrated by 421 figures and 74 colour plates (mostly photographs). There are 23 tables, a detailed index and a list of over 1000 references, providing a unique collection of northeastern European geoscience literature, much of which has so far escaped the attention of western scientists. The volume, composed of contributions by 60 scientists, completes the trilogy on glacial deposits of northern Europe. Together with its two companion volumes, the Glacial deposits in North-West Europe and the Glacial Deposits in Great Britain and Ireland, it represents an invaluable source of information for the geoscientist, the advanced student or the amateur.

Glacial Deposits in North-West Europe: Juergen Ehlers 1983-01-01 The importance of glacial deposits is continually increasing, not only for pure scientists, but also for applied geologists. In many parts of Europe, as well as North America, these deposits provide major sand and gravel reserves, groundwater reservoirs and the foundation on which houses, roads and bridges are built. They are thus fundamental to many environmental and engineering problems. In this volume forty six authors report on the current state of specialist research on various aspects of glacial deposits. The geographical coverage of their work — Norway, Sweden, Denmark, West Germany and the Netherlands — represents a transect from the centres of the major North European Quaternary glaciations to their margins. Among the topics covered are: drift prospecting, modern varve chronology, fine gravel analysis, internal structure of thrust moraines, stratigraphical interpretation of well-logs, echo-sounding of North Sea deposits, erratic pebbles as indicators, till fabrics, palaeontology of glacial deposits, multi-component analyses, glacial deposition on the continental shelf and the genetic interpretation of glacial landforms. In addition there are reviews of the regional stratigraphy and glacial chronology of each of the five countries represented and detailed discussion of the problems of genesis, reworking, transport and deposition of Quaternary glacial sediments. Much information is previously unpublished. The volume is intended to serve both as a text book for students and informed amateurs and as a guide for professional geoscientists. The 53 chapters are richly illustrated (409 black and white illustrations and 95 colour photos). In addition to a full and detailed index, the book contains one of the most up-to-date and complete lists of the most important literature on Quaternary problems in North-West Europe, with over 700 references, which serve as a guide for further studies.

Glacial Deposits in Great Britain and Ireland: Juergen Ehlers 1991-07-31 With the increasing awareness of environmental problems, there is a growing desire for a detailed understanding of superficial deposits in general, and glacial deposits in particular. This is because these sediments have a profound influence on groundwater protection, waste management and nature conservation. They are also of vital importance to civil engineering, because they provide the foundation for, as well as the materials extracted to build our roads and buildings. The greater part of the British Isles was glaciated, at least once, during the Quater- nary Era. In the regions subjected to glaciation, glacial deposits underlie much of the present land surface. Although there have been many recent publications on various Quaternary geological topics, the present volume is the first dedicated to a detailed assessment of the glacial deposits of Britain and Ireland. After introductory chapters presenting the glacial history, the sedimentary sequences in 24 critical regions are discussed. These regions include all of Ireland, the glaciated area of Great Britain, and the adjoining offshore region of the North Sea. The controversy over the evolution of the Irish Sea Basin during the Last Glaciation is discussed from various viewpoints. A collection of ‘critical topics’ presented in the later part of the book range from the classification of glaciogenic landforms and deposits to the results of geophysical, geotechnical and geochemical analyses. The book includes 368 figures, 40 tables and 51 colour photographs, a detailed index and a list of over 1000 references. With 45 contributions by 48 scientists, this volume represents a truly contemporary view of this field of research. Together with its companion volume the Glacial deposits in North-West Europe, this book provides an excellent textbook for the advanced student or the amateur, as well as an indispensable source of information for the professional geoscientist.

Quaternary Glaciations - Extent and Chronology: Ehlers 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.
The Physical Geography of Western Europe - Eduard A. Koster 2005-05-19 A distinguished team of Western European scholars has written an advanced, full-length physical geography designed to be a state-of-the-art evaluation of the physical environment of Western Europe, being both retrospective and prospective in its perception of environmental change. The unique natural and regional environments of Western Europe are discussed, as well as the physical geographic framework of the region. Particular emphasis is placed on the impact and responses of human society on the physical environment of the region which is characterized by a very high population density. As an enhanced reference work it will be of enduring value.

Glacigenic Sediments - K. Brodzikowski 1990-12-11 This book aims primarily at providing those involved in fundamental or applied research in the fields of geology, geomorphology and hydrology with a systematic overview of glaciogenic sediments. A generally applicable terminology is proposed which should facilitate communication between scientists from several fields. Also it should form a bridge between western and eastern “schools” dealing with Quaternary geology. Because the book is mainly devoted to depositional processes and the resulting deposits, the approach and the terminology followed in this book are obviously founded strongly on sedimentology, the geological discipline that deals specifically with these phenomena. The book will be helpful in describing the sediments involved, interpreting their genesis, establishing their extent and their mutual relationships, and thus in the reconstruction of the palaeogeoographic development. The large list of references reflects the author's extensive search of the literature.

Quaternary Glaciations - Extent and Chronology - J. Ehlers 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

Deformation of Glacial Materials - Geological Society of London 2000 The flow of glacier ice can produce structures that are striking and beautiful. Associated sediments too can develop spectacular deformation structures, and examples are remarkably well preserved in Quaternary deposits. This collection of papers addresses how the methods for unravelling deformation structures evolved by structural geologists can be used for glacial materials, and the opportunities offered to structural geologists by glacial materials for studying deformation in rocks.

The Geology of Central Europe: Mesozoic and Cenozoic - Tom McCann 2008 Volume 2 provides an overview of the Mesozoic and Cenozoic evolution of Central Europe. This period commenced with the destruction of Pangaea and ended with the formation of the Alps and Carpathians and the subsequent Ice Ages. Separate summary chapters on the Permian to Cretaceous tectonics and the Alpine evolution are also included. The final chapter provides an overview of the fossils fuels, ore and industrial minerals in the region.

Comparison of North American and European Glacial Deposits - Frank Leverett 1910

GLACIAL LANDSYSTEMS - David Evans 2014-02-04 This book is a comprehensive overview of the ever-captivating field of glaciation from the perspective of glacial landsystems. This approach models the many processes, forms and interactions that can be found in glaciated landscapes throughout the world. Landsystems models allow the glacial geologist and geomorphologist to evaluate these landscapes in relation to the dynamics of glaciation and to climate and geology. Glacial Landsystems brings together the expertise of an international range of specialists to provide an up-to-date summary of landsystems relevant to both modern and ancient glacier systems and also in the reconstruction and interpretation of former glacial environments. The models are applicable at all scales from ice sheets to small valley glaciers. This book is an essential reference for anyone embarking upon research or engineering surveys in glaciated basins and provides a wide-ranging handbook of glacial landsystem types for students of glaciation.

Handbook of the Marine Fauna of North-West Europe - Peter J. Hayward 2017-02-23 This authoritative guide enables accurate identification of the common components of the inshore benthic invertebrates of the British Isles and adjacent European coasts, as well as a substantial proportion of fish species. This new edition builds upon the strengths of the earlier work and is thoroughly revised throughout to incorporate advances in both the taxonomy and ecology of the organisms concerned.

The Ice Age - Dr. Jürgen Ehlers 2015-12-30 This book provides a new look at the climatic history of the last 2.6 million years during the ice age, a time of extreme climatic fluctuations that have not yet ended. This period also coincides with important phases of human development from Neanderthals to modern humans, both of whom existed side by side during the last cold stage of the ice age. The ice age has seen dramatic expansions of glaciers and ice sheets, although this has been interspersed with relatively short warmer intervals.
The book focuses on the changing state of these glaciers and the effects of associated climate changes on a wide variety of environments (including mountains, rivers, deserts, oceans and seas) and also plants and animals. For example, at times the Sahara was green and colonized by humans, and Lake Chad covered 350,000 km² – larger than the United Kingdom. What happened during the ice age can only be reconstructed from the traces that are left in the ground. The work of the geoscientist is similar to that of a detective who has to reconstruct the sequence of events from circumstantial evidence. The book draws on the specialisms and experience of the authors who are experts on the glacial history of the Earth. Readers: Undergraduate and postgraduate students studying the Quaternary, researchers, and anyone interested in climate change, environmental change and geology. The book provides a rich collection of illustrations and photographs to help the readers at all levels visualise the dramatic consequences of glacier expansions during the Ice Age.

**Ice-marginal and Periglacial Processes and Sediments**

Ireneo Peter Martini 2011 Understanding the sediments deposited by glaciers or other cold-climate processes assumes enhanced significance in the context of current global warming and the predicted melt and retreat of glaciers and ice sheets. This volume analyses glacial, proglacial and periglacial settings. Papers include topics such as sedimentation at termini of tidewater glaciers, poorly understood high-mountain features, and slope and aeolian deposits that have been sourced in glacial and periglacial regions and subsequently transported and deposited by azonal processes. Difficulties encountered in inferring Pleistocene and pre-Pleistocene cold-climate conditions when the sedimentary record lacks specific diagnostic indicators are discussed. The main objective of this volume is to establish the validity and limitations of the evidence that is used to achieve reliable palaeogeographic and palaeoclimatic reconstructions. On the much longer geological timescale, an understanding of ice-marginal and periglacial environments may better prepare us for the unavoidable reversal towards cooler and perhaps even glacial times in the future.

**Living Ice**

Robert P. Sharp 1991-06-28 Glaciers, so simple in chemical composition, are actually complex, vital entities. Far from being a passive chunk of ice, a glacier is a dynamic system, sensitive to its surroundings and constantly changing to adapt to its environment. An appreciation of the natural beauty of glaciers is created, how they behave, how they affect the environment and how they are eventually destroyed. Few people are untouched by glaciers. A significant part of the world’s population inhabits areas formerly covered by glacial ice, which left its marks on the land. Today, glaciers are only found in select parts of the world, but by their influence on global sea level and climatic change, they could have a dramatic effect on modern humanity. Living Ice: Understanding Glaciers and Glaciation aims to increase our knowledge and understanding of glacial activity and products. It is written in a non-technical and engaging style. The text is peppered with anecdotes and insights from one of the world’s experts on glaciers and it is also liberally and thoughtfully illustrated by numerous stunning black and white and colour illustrations. It is suitable for anyone with a passing knowledge of earth science and an interest in the world of living ice.

**Late Quaternary Environmental Change in North-west Europe: Excavations at Holywell Coombe, South-east England**

Preece 2012-12-06 Holywell Coombe, an embayment in the chalk scarp overlooking Folkestone, Kent, was designated a geological Site of Special Scientific Interest in 1985 because it contains richly fossiliferous Late Quaternary sediments providing a unique archive of the last 13,000 years. The construction of the Channel Tunnel across the Holywell Coombe SSSI brought about a major rescue excavation, funded by Eurotunnel, that set an important precedent in Earth Science conservation. This multidisciplinary investigation has added enormously to our understanding of the environment and natural history of the Late-glacial and Holocene. The climatic complexity of the Late-glacial is recorded in the nature of the sediments, the fossils recovered from them and the soils developed within them. From the Neolithic, and especially during the Early Bronze Age, the slopes were destabilized as a result of forest clearance, leading to the accumulation of hillwash. Archaeological excavations in the hillwash have revealed evidence of prehistoric occupation and agricultural activity in the coombe. Eurotunnel also funded biological surveys of the local terrestrial and aquatic habitats. Combining these with the fossil evidence, it has been possible to document the pedigree of our present fauna and flora, providing one of the most detailed and comprehensive studies of its kind. With contributions from eminent Quaternary scientists from several countries, this work will be an important resource for researchers, lecturers and postgraduate students in Quaternary sciences - geology, geography, biology, ecology and archaeology - as well as for government bodies concerned with nature conservation and environmental protection.

**Climate and Stratigraphy in Northwestern Europe Between 30,000 B.P. and 13,000 B.P., with Special Reference to The Netherlands**

Else Kolstrup 1980

This volume sheds new light on the marine fauna and geological setting of the Tjørnes Sequence, North Iceland, which is a classic site for the Pliocene and Pleistocene stratigraphy of the North Atlantic region. Readers will discover descriptions of new data collected by the editors over a period of over three decades on marine faunal assemblages and sedimentology available for palaeoenvironmental reconstructions, as well as the tectonic and stratigraphical relationships on Tjørnes Peninsula. The book includes a comprehensive account of all the collections of marine fossil invertebrate macrofossils and foraminifera known to the editors from the Tjørnes Sequence. It is expected to elucidate sedimentological and faunal changes from relatively stable Pliocene conditions to highly variable and periodically harsh climatic conditions of recurring Quaternary glaciations. The distribution, recent or fossil, of various species is recorded and pertinent ecological and biological features are also discussed. The Tjørnes Sequence records the Neogene migration of Pacific species into the North Atlantic. Researchers in geology, climate science, environmental science and earth science will find this book particularly valuable.

**Pacific - Atlantic Mollusc Migration**

Jón Eiríksson 2021-02-17 This volume sheds new light on the marine fauna and geological setting of the Tjørnes Sequence, North Iceland, which is a classic site for the Pliocene and Pleistocene stratigraphy of the North Atlantic region. Readers will discover descriptions of new data collected by the editors over a period of over three decades on marine faunal assemblages and sedimentology available for palaeoenvironmental reconstructions, as well as the tectonic and stratigraphical relationships on Tjørnes Peninsula. The book includes a comprehensive account of all the collections of marine fossil invertebrate macrofossils and foraminifera known to the editors from the Tjørnes Sequence. It is expected to elucidate sedimentological and faunal changes from relatively stable Pliocene conditions to highly variable and periodically harsh climatic conditions of recurring Quaternary glaciations. The distribution, recent or fossil, of various species is recorded and pertinent ecological and biological features are also discussed. The Tjørnes Sequence records the Neogene migration of Pacific species into the North Atlantic. Researchers in geology, climate science, environmental science and earth science will find this book particularly valuable.

**The Lower to Middle Palaeolithic Transition in Northwestern Europe**

Ann Van Baelen 2017-10-17 A well-preserved early Middle Palaeolithic site set against a wider northwestern European context. The shift from Lower to Middle Palaeolithic in northwestern Europe (dated to around 300,000–250,000 years ago) remains poorly understood and underexplored compared to more recent archaeological...
transitions. During this period, stone tool technologies underwent significant changes but the limited number of known sites and the general low spatio-temporal resolution of the archaeological record in many cases has impeded detailed behavioural inferences. Brickyard-quarrying activities at Kesselt-Op de Schans (Limburg, Belgium) led to the discovery and excavation of a well-preserved early Middle Palaeolithic level buried beneath a 10 m thick loess-palaeosol sequence. The present volume offers a comprehensive report on the site, dated to around 280,000 years ago, set against a wider northwestern European context. An in-depth study of the lithic assemblage, including an extensive refitting analysis, provides detailed information on the technological behaviour of prehistoric hominins in the Meuse basin during this crucial time period. Contributors: Jozef J. Hus (Royal Meteorological Institute of Belgium), Frank Lehmkühl (RWTH Aachen University), Erik P.M. Meijis (ArcheGeoLab), Philipp Schulte (RWTH Aachen University), Ann Van Baelen (KU Leuven and University of Cambridge), Philip Van Peer (KU Leuven), Joerg Zens (RWTH Aachen University)

**Encyclopedia of Quaternary Science** - 2013-03-25 The second revised edition of the Encyclopedia of Quaternary Science, 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 navigates seamlessly from one unfamiliar topic to the next.

**Transactions of the Royal Society of Edinburgh** - 1990

**Smakkerup Huse** - Anne Birgitte Gebauer 2003-11-01 The archaeological site of Smakkerup Huse is located at the headwaters of a former fjord known as the Saltbæk Vig on the northwest coast of the island of Zealand, Denmark. Excavations took place in 1989 and again from 1995 to 1997 by a team of Danish and American archaeologists. The site is important for a number of reasons, including the 1000-year record of cultural deposits and the preservation of abundant subsistence remains and wooden objects. Smakkerup Huse documents some of the oldest domestic cattle in Denmark and a new artifact type, a painted pebble, from the Mesolithic. While the settlement area of the site on land had been eroded, the waterlain deposits adjacent to the site preserved a submerged midden and an in situ fishing and boat landing area. The report on the site includes background on the Mesolithic of Southern Scandinavia, a history of research at the site, the geology and topography of the site and its environment, the layout and sequence of the excavations, stratigraphy, the finds, dating, interpretation and significance. T. Douglas Price is Weinstein Professor of European Archaeology and Director of the Laboratory for Archaeological Chemistry, Dept. of Anthropology, University of Michigan.

**Glaciologic Landforms and Structures** - J. S. Aber 2012-12-06

**Mesozoic Resource Potential in the Southern Permian Basin** - B. Kilhams 2018-08-31 The Southern Permian Basin, as its name suggests, is a historical heartland for hydrocarbon production from the Palaeozoic Rotliegend interval. However, in this mature basin the Mesozoic presents further possibilities to offer resource security to NW Europe. Such opportunities include increasing efficiency in the production of discovered hydrocarbons, exploration for further hydrocarbons (both conventional and unconventional) and efficient exploration for, and production of, geothermal energy. All these potential resources require a grounding in technically sound geoscience, via traditional scientific observation and the application of new technologies, to unlock their value. The main aim of this volume is to bring together the work of academics and industry workers to consider cross-border geoscience including contributions on Poland, Germany, The Netherlands, the United Kingdom and adjacent areas. The work presented intends to contribute to the development and discovery of further Mesozoic energy resources across the basin.

**Antarctic Marine Geology** - J. B. Anderson 1999-09-28 A comprehensive single-authored book to introduce students and researchers to the marine geology of the Antarctic.

**Offshore Site Investigation and Foundation Behaviour** - D.A. Aruds 2013-04-17 Two main areas of offshore activity are addressed in this book: Site investigation on assessment; and Applications and foundation engineering. The 37 contributions from a wide ranging group of international experts, are resulting from the Offshore Site Investigation and Foundation Behaviour Conference, London, U.K., September 1992. Adequate determination of site conditions can only be achieved by the integrated approach of using geological, geophysical and geotechnical data. Developments in data acquisition techniques are illustrated through case histories in the section on Geotechnical Sampling and Testing. In the section on Advanced Interpretation Techniques and Integrated Interpretations the state of the art of these topics is also illustrated by case histories. A review of foundation behaviour is presented in the section on Gravity Foundations, Foundation Performance Monitoring, Piling Research and Design Criteria. These topics are illustrated in the light of field experience and recent research, in particular that involving full-scale tests and monitoring. This book provides many illustrative figures and much pertinent information to exploration and marine geophysicists, petroleum and offshore engineers and for researchers working...

The papers in this collection are based on a symposium held at the 1988 annual meeting of the Geological Society of America, with the objective of identifying sedimentary criteria and facies models that can be used to characterize the glacial-climate setting of ancient sedimentary sequences. Includes papers on Antarctica, Alaska, and Ellesmere Island, and a brief literature review.

Encyclopedia of Geomorphology - Andrew Goudie 2013-04-15

Geomorphology, the discipline which analyzes the history and nature of the earth’s surface, deals with the landforms produced by erosion, weathering, deposition, transport and tectonic processes. In recent decades there have been major developments in the discipline and these are reflected in this major Encyclopedia, the first such reference work in the field to be published for thirty-five years. Encyclopedia of Geomorphology has been produced in association with the International Association of Geomorphologists (IAG) and has a truly global perspective. The entries have been written by an international editorial team of contributors, drawn from over thirty countries, who are all among the leading experts in the discipline. In two lavishly illustrated volumes, Encyclopedia contains nearly 700 alphabetically organized entries to provide a comprehensive guide both to specific landforms and to the major types of geomorphological processes that create them. The Encyclopedia also demonstrates the major developments that have taken place in recent years in our knowledge of tectonic and climatic changes and in the use of new techniques such as modelling, remote sensing and process measurement. Older concepts, however, are not forgotten and provide an historical perspective on the development of ideas. Both accessible and authoritative, Encyclopedia of Geomorphology is destined to become the definitive resource for students, researchers and applied practitioners in the field of geomorphology and the cognate disciplines of geography, earth science, sedimentology and environmental science.

Bibliography on Cold Regions Science and Technology - 1984

Science - John Michels 1891

The Northwest European Pollen Flora - W. Punt 2016-06-29 The Northwest European Pollen Flora

Preliminary Report on Climate and Weather of Northwestern Europe - Weather Research Center (U.S.) 1942


Soil and Rock Construction Materials - Greg McNally 2017-10-02

An introduction to the investigation, extraction, processing and specification of natural soil and rock materials, with an emphasis on why particular material properties are sought and how they may be modified. The book covers the full range of soil and rock construction materials including crushed stone, sand and gravel, natural and prepared roadb

The Popular Science Monthly - 1890

Glaciated Continental Margins - Thomas A. Davies 2012-12-06

Late Cenozoic glaciation directly affected sedimentation on more than half the Earth’s continental shelves. Ice continues to be a dominant influence on sedimentation around Greenland and Antarctica, and on the shelves facing the Arctic Ocean. The features of these shelves include true glacimarine features, i.e. those found in a marine environment in proximity to, or strongly under the influence of, ice, such as iceberg scours and pits, ice gouges and incisions, subglacial outwash deposits, and diamictons resulting from ice rafting. Also seen, because large areas of the shelves were exposed during the Pleistocene lowering of sea level, are terrestrial glacial and periglacial features, e.g. fluvial outwash valleys and associated deposits, tunnel valleys, drumlin fields and lodgement till, which have subsequently been submerged and modified by marine influences. Glaciated Continental Margins: An Atlas of Acoustic Images illustrates the complexity of features found in glaciated and formerly glaciated marine environments. The volume was assembled by an international Editorial Committee, led by Thomas A. Davies (University of Texas), from records gathered in the course of recent research and contributed by members of the scientific community from around the world. These include seismic sections, side-scan maps, and 3-D seismic data, supplemented in some cases by bottom photographs and core data, with accompanying text. The work is scientists at 40 institutions in 10 countries is represented. This book will be an invaluable resource for students, Quaternary scientists, glaciologists, marine geologists and geophysicists, geotechnical engineers, and surveyors teachers working in universities, research institutions and government agencies with interests in polar and subpolar regions, as well as those in industries with offshore interests.
Popular Science- 1890-05 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Encyclopedic Dictionary of Archaeology-Barbara Ann Kipfer 2013-06-29 A modern, comprehensive compilation of more than 7,000 entries covering themes, concepts, and discoveries in archaeology written in nontechnical language and tailored to meet the needs of professionals, students and general readers. The main subject areas include artifacts; branches of archaeology, chronology; culture; features; flora and fauna; geography; geology; language; people; related fields; sites; structures; techniques and methods; terms and theories; and tools.

European Glacial Landscapes-David Palacios 2021-11-26 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
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