

A PRACTICAL GUIDE TO THE STUDY OF GLACIAL SEDIMENTS

Edited by David J.A. Evans and Douglas J. Benn
Second Edition



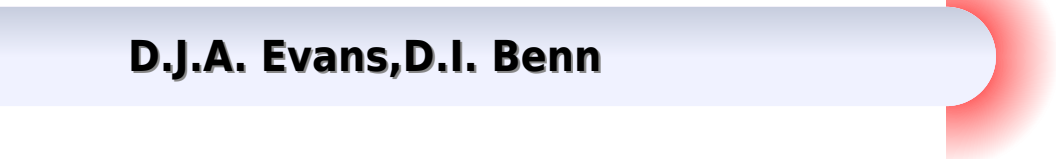
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A Practical Guide To The Study Of Glacial Sediments

D.J.A. Evans, D.I. Benn



A Practical Guide To The Study Of Glacial Sediments:

A Practical Guide to the Study of Glacial Sediments David J. A. Evans, Douglas I. Benn, 2014-04-23 Sediments are the most valuable form of physical evidence for past Earth surface processes. They have the potential to build up an archive of events and provide a window into the past. Through careful examination of sediments the shifting patterns of surface processes across space and time are revealed, allowing us to reconstruct past environments and environmental change. A Practical Guide to the Study of Glacial Sediments is a guide to the standard techniques employed to read the sedimentary record of former glaciers and ice sheets. It demonstrates that the often complex and fragmentary glacial sedimentary record can, when examined systematically and rationally, provide detailed insights into former environments and climates in places where no other evidence is available. The complementary techniques covered in this book include facies description, grain size analysis, clast form assessment, clast macrofabric analysis, micromorphology, particle lithology, and assessment of engineering properties. They yield consistent and meaningful results in a range of glacial depositional environments throughout the world, from the high Arctic to the Himalayas. A Practical Guide to the Study of Glacial Sediments provides students and researchers with a clear and accessible guide to recording and interpreting glacial successions wherever the location. *Selected*

Extracts From: A Practical Guide to the Study of Glacial Sediments D.J.A. Evans, D.I. Benn, 2004 **Reconstructing Quaternary Environments** J. John Lowe, Michael J.C. Walker, 2014-10-28 This third edition of *Reconstructing Quaternary Environments* has been completely revised and updated to provide a new account of the history and scale of environmental changes during the Quaternary. The evidence is extremely diverse, ranging from landforms and sediments to fossil assemblages and geochemical data, and includes new data from terrestrial, marine, and ice core records. Dating methods are described and evaluated, while the principles and practices of Quaternary stratigraphy are also discussed. The volume concludes with a new chapter which considers some of the key questions about the nature, causes, and consequences of global climatic and environmental change over a range of temporal scales. This synthesis builds on the methods and approaches described earlier in the book to show how a number of exciting ideas that have emerged over the last two decades are providing new insights into the operation of the global earth-ocean-atmosphere system and are now central to many areas of contemporary Quaternary research. This comprehensive and dynamic textbook is richly illustrated throughout with full-colour figures and photographs. The book will be of interest to undergraduates, postgraduates, and professionals in Earth Science, Environmental Science, Physical Geography, Geology, Botany, Zoology, Ecology, Archaeology, and Anthropology. *Till* David J. A. Evans, 2017-11-29 Provides the first comprehensive review of the current state of the science on tills. It is critical that glacial scientists continue to refine their interpretations of ancient archives of subglacial processes, specifically those represented by tills and associated deposits, as they form the most widespread and accessible record of processes at the ice-bed interface. Unfortunately, despite a long history of investigation and a lexicon of process-based nomenclature, glacial

sedimentologists have yet to reach a consensus on diagnostic criteria for identifying till genesis in the geological record What should be called till Based on the author s extensive field research as well as the latest literature on the subject this book attempts to provide a definitive answer to that question It critically reviews the global till literature and experimental and laboratory based assessments of subglacial processes as well as the theoretical constructs that have emerged from process sedimentology over the past century Drawing on a wide range of knowledge bases David Evans develops a more precise contemporary till nomenclature and new investigatory strategies for understanding a critical aspect of glacial process sedimentology Provides an in depth discussion of subglacial sedimentary processes with an emphasis on the origins of till matrix and terminal grade and the latest observations on till evolution Describes contemporary laboratory and modelling experiments on till evolution and techniques for measuring strain signatures in glacial deposits Develops an updated till nomenclature based on an array of knowledge bases and describes new strategies for field description and analysis of glacial diamictos Written by an internationally recognised expert in the field this book represents an important step forward in the modern understanding of glacial process sedimentology As such Till A Glacial Process Sedimentology is an indispensable resource for advanced undergraduates and researchers in sedimentology glacier science and related areas

Landscapes and Landforms of Scotland Colin K. Ballantyne, John E. Gordon, 2021-08-24 This book provides an appealing and informative overview of the outstanding landforms and landscapes of Scotland Scotland is internationally renowned for the diversity of its geology landforms and landscapes The rock record spans most of geological time from the Archaean to the Palaeogene and represents the outcome of tectonic plate movements associated geological processes and sea level and climate changes Scotland incorporates primeval gneiss landscapes the deeply eroded roots of the Caledonian mountain chain landscapes of extensional tectonics and rifting and eroded remnants of volcanic complexes that were active when the North Atlantic Ocean opened during the Palaeogene The present relief reflects uplift and deep weathering during the Cenozoic strongly modified during successive episodes of Pleistocene glaciation This striking geodiversity is captured in this book through 29 chapters devoted to the evolution of Scotland s scenery and locations of outstanding geomorphological significance including ancient palaeosurfaces landscapes of glacial erosion and deposition evidence of postglacial landscape modification by landslides rivers and wind and coastal geomorphology Dedicated chapters focus on Ice Age Scotland and the associated landscapes which range from alpine type mountains and areas of selective glacial erosion to ice moulded and drift covered lowlands and incorporate accounts of internationally renowned sites such as the Parallel Roads of Glen Roy the Cairngorm Mountains and the inselbergs of Assynt Other chapters consider the record of postglacial rock slope failures such as the famous landslides of Trotternish on Skye and the record of fluvial changes since deglaciation The sea level history of Scotland is addressed in terms of its raised and submerged shorelines while several chapters discuss the contrasting coastal landscapes which range from the spectacular sea cliffs of Shetland and Orkney to the beaches and dunes of eastern Scotland

The role of geoconservation in preserving Scotland's outstanding geomorphological heritage is outlined in the final chapter. The book offers an up to date and richly illustrated reference guide for geomorphologists, other Earth scientists, geographers, conservationists and all those interested in geology, physical geography, geomorphology, geotourism, geoheritage and environmental protection. **Untangling the Quaternary Period** Richard B. Waitt, Glenn D. Thackray, Alan R.

Gillespie, 2021-04-20. This volume brings together nineteen papers of interdisciplinary Quaternary science honoring Stephen Porter. Special Paper 548 features papers from six continents on wide ranging topics including glaciation, paleoecology, landscape evolution, megafloods and loess. The topical and geographical range of the papers as well as their interdisciplinary nature honor Porter's distinct approach to Quaternary science and leadership that influence the field to this day.

Glaciation David J. A. Evans, 2018. An overview of glaciers and ice sheets as systems considering the role of geomorphology and sedimentology in studying them and their impacts on our planet in terms of erosional and depositional processes. **Global Environments Through the Quaternary** David E. Anderson, Andrew S. Goudie, Adrian G.

Parker, 2007-01-25. Global Environments through the Quaternary delves into the environmental changes that have taken place during the Quaternary, the two to three million years during which man has inhabited the Earth. It is essential reading for any students seeking a balanced objective overview of this truly interdisciplinary subject. **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 is 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. **Glaciers and Glaciation, 2nd edition** Douglas Benn, David J A

Evans, 2014-02-04 *Glaciers and Glaciation* is the classic textbook for all students of glaciation. Stimulating and accessible, it has established a reputation as a comprehensive and essential resource. In this new edition, the text, references, and illustrations have been thoroughly updated to give today's reader an up-to-the-minute overview of the nature, origin, and behaviour of glaciers and the geological and geomorphological evidence for their past history on earth. The first part of the book investigates the processes involved in forming glacier ice, the nature of glacier-climate relationships, the mechanisms of glacier flow, and the interactions of glaciers with other natural systems such as rivers, lakes, and oceans. In the second part, the emphasis moves to landforms and sediment, the interpretation of the earth's glacial legacy, and the reconstruction of glacial depositional environments and palaeoglaciology.

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Table of Contents A Practical Guide To The Study Of Glacial Sediments

1. Understanding the eBook A Practical Guide To The Study Of Glacial Sediments
 - The Rise of Digital Reading A Practical Guide To The Study Of Glacial Sediments
 - Advantages of eBooks Over Traditional Books
2. Identifying A Practical Guide To The Study Of Glacial Sediments
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A Practical Guide To The Study Of Glacial Sediments
 - User-Friendly Interface
4. Exploring eBook Recommendations from A Practical Guide To The Study Of Glacial Sediments
 - Personalized Recommendations
 - A Practical Guide To The Study Of Glacial Sediments User Reviews and Ratings

- A Practical Guide To The Study Of Glacial Sediments and Bestseller Lists
- 5. Accessing A Practical Guide To The Study Of Glacial Sediments Free and Paid eBooks
 - A Practical Guide To The Study Of Glacial Sediments Public Domain eBooks
 - A Practical Guide To The Study Of Glacial Sediments eBook Subscription Services
 - A Practical Guide To The Study Of Glacial Sediments Budget-Friendly Options
- 6. Navigating A Practical Guide To The Study Of Glacial Sediments eBook Formats
 - ePub, PDF, MOBI, and More
 - A Practical Guide To The Study Of Glacial Sediments Compatibility with Devices
 - A Practical Guide To The Study Of Glacial Sediments Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A Practical Guide To The Study Of Glacial Sediments
 - Highlighting and Note-Taking A Practical Guide To The Study Of Glacial Sediments
 - Interactive Elements A Practical Guide To The Study Of Glacial Sediments
- 8. Staying Engaged with A Practical Guide To The Study Of Glacial Sediments
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A Practical Guide To The Study Of Glacial Sediments
- 9. Balancing eBooks and Physical Books A Practical Guide To The Study Of Glacial Sediments
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A Practical Guide To The Study Of Glacial Sediments
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine A Practical Guide To The Study Of Glacial Sediments
 - Setting Reading Goals A Practical Guide To The Study Of Glacial Sediments
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Practical Guide To The Study Of Glacial Sediments
 - Fact-Checking eBook Content of A Practical Guide To The Study Of Glacial Sediments
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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