

A PRACTICAL GUIDE TO THE STUDY OF GLACIAL SEDIMENTS

Edited by David J.A. Evans and Douglas J. Benn
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A Practical Guide To The Study Of Glacial Sediments

David J. A. Evans, Douglas I. Benn



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A Practical Guide to the Study of Glacial Sediments David J. A. Evans, Douglas I. Benn, 2014 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 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

Adopting the Track of Appearance: An Mental Symphony within **A Practical Guide To The Study Of Glacial Sediments**

In some sort of eaten by displays and the ceaseless chatter of instant conversation, the melodic beauty and psychological symphony developed by the prepared word frequently disappear in to the back ground, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, located within the pages of **A Practical Guide To The Study Of Glacial Sediments** a stunning literary prize brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that interesting masterpiece conducts visitors on an emotional trip, well unraveling the hidden songs and profound affect resonating within each cautiously constructed phrase. Within the depths with this emotional review, we shall examine the book is main harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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A Practical Guide To The Study Of Glacial Sediments Introduction

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