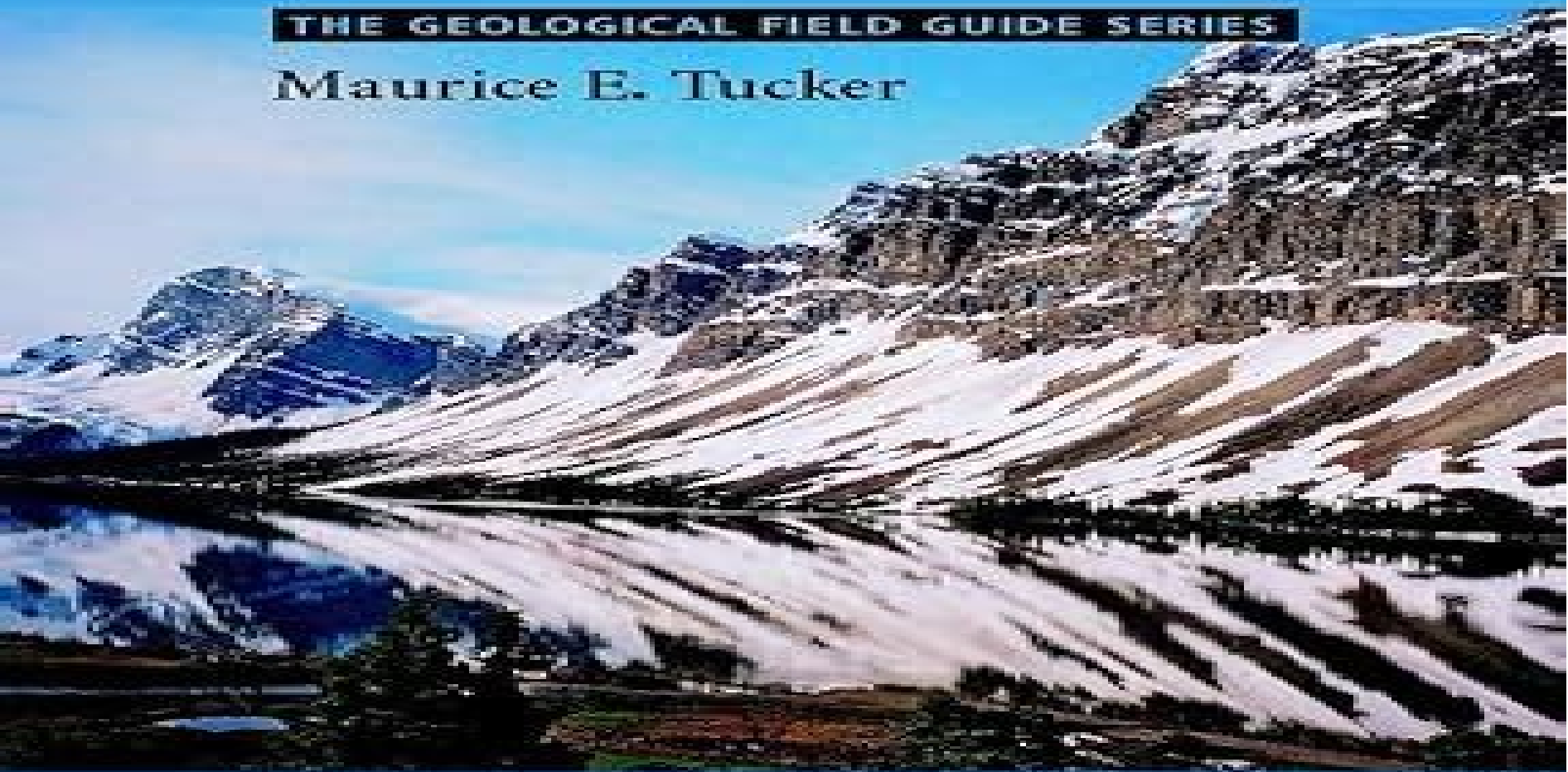


Sedimentary Rocks in the Field

THE GEOLOGICAL FIELD GUIDE SERIES

Maurice E. Tucker



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Sedimentary Rocks In The Field Geological Field Guide

Maurice E. Tucker



Sedimentary Rocks In The Field Geological Field Guide:

Sedimentary Rocks in the Field Maurice E. Tucker, 1996-04-19 Sedimentary rocks are widely distributed at the Earth's surface their accurate description is essential for the interpretation of depositional environments palaeo geography This book describes how these rocks may be observed recorded mapped *Sedimentary Rocks in the Field* Maurice E.

Tucker, 2011-06-28 This fourth edition builds on the success of previous editions and for the first time is produced in full colour throughout with improved photos and diagrams It retains its popular pocket size and is an essential buy for all students working in the field The text shows how sedimentary rocks are tackled in the field and has been written for all those with a geological background It describes how the features of sedimentary rocks can be recorded in the field particularly through the construction of graphic logs In succeeding chapters the various sedimentary rock types textures and structures are discussed and shown how they can be described and measured in the field There are expanded sections on trace fossils and volcanoclastics along with updated reference list Finally a concluding section deals briefly with facies identification and points the ways towards facies interpretations and the identification of sequences and cycles Key Features Full colour throughout with improved photos figures and diagrams in a modern layout Complete revision and update of best selling textbook which is part of the highly successful Field Guide series Expanded sections on trace fossils and volcanoclastics along with updated reference list Handy pocket size with laminated cover Includes supplementary website with downloadable logging sheets for fieldwork activities

Sedimentary Rocks in the Field Dorrik A.V. Stow, 2005-03-30 Ideas and concepts in sedimentology are changing rapidly but field work and data collection remain the basis of the science This book is intended as a guide to the recognition and description of sedimentary rocks in the field It aims to help students and professional geologists know what to observe and record and how best to interpret this data The emphasis is on illustrating the principal types of sedimentary rocks which is accomplished through more than 450 color photos and explanatory drawings The introductory chapter defines the main types of sedimentary rocks their classification and their economic significance The author then goes on to describe standard field techniques and provides a comprehensive summary of the principal characteristics of sedimentary rocks Additional chapters cover each of the main rock types and describe how to interpret rocks and their features in terms of depositional environments This book is an ideal field companion for undergraduate and graduate students of geology environmental sciences hydrogeology oceanography and more Professionals in petroleum geology and resource management as well as budding geologists will also find this to be an indispensable reference BOOK JACKET *The Field Guide to Geology* David Lambert, 2006 Presents an illustrated field guide to geology that explains the evolution of the Earth

A Field Description of Sedimentary Rocks Maurice E. Tucker, 1982-06-23 A practical volume that describes how the features of sedimentary rocks can be recorded in the field particularly through the construction of graphic logs Discusses such particular aspects of sedimentary rocks as lithology texture sedimentary

structures fossils and paleocurrents with emphasis on what features to look for and how to measure and assess them for later environmental and process interpretation of facies facies sequences and facies associations Pocket Guide Geology in the Field Tom McCann, 2021-07-29 This book is a field guide that describes and explains the commonest minerals and rocks as well as introducing the most important fossil groups In addition a variety of geological structures are described and illustrated in the numerous diagrams and photographs The guide is your perfect companion for hikes or walks in the countryside inviting you to discover the geology hidden behind the landscapes surrounding us as well as helping you to recognise the various minerals rocks and fossils you might encounter Geology is a science that only really comes to life when we are outside for example on walks or hikes along the coast or through national parks With a little knowledge you will be able to experience the landscape in a completely different way The rocks will come alive so to speak and you will be able to read their history like a book understanding the range and complexity of geological processes which have formed the Earth beneath our feet Such processes an interplay of magmatism tectonics metamorphosis and sedimentation as well as climate and sea level change have shaped the Earth over millennia and continue to do so even at the present time The book is aimed at nature lovers of all types as well as students of geology in fact anyone who is interested in the world around us It will provide the perfect companion for walks or hikes in the countryside This book is a translation of the original German 1st edition *Pocket Guide Geologie im Gelände* by Tom McCann published by Springer Verlag GmbH Germany part of Springer Nature in 2019 The initial translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent detailed revision by the author ensures that the book reads stylistically like a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors Basic Geological Mapping Richard J. Lisle, Peter Brabham, John W. Barnes, 2011-09-13 Part of The Geological Field Guide Series Basic Geological Mapping 5th Edition is an essential basic guide to field techniques in mapping geology Now completely revised and updated the book retains the concise clarity which has made it an indispensable instant reference in its previous editions It provides the reader with all the necessary practical information and techniques that they will need while carrying out work in the field covering a wide spectrum of different conditions needs and types of countries This edition covers new developments in technology including Google Earth and the use of GPS This is an ideal field guide to geological mapping for 2nd 3rd year undergraduates of Geology Hydrogeology and Geological Engineering Fundamentals of Sedimentology Sreepat Jain, 2024-12-23 This new textbook is a modern look at key concepts of sedimentology With lavish colorful and abundant illustrations and easy to understand explanations the book focuses on the concepts required to understand physical chemical and biological characteristics of sedimentary rocks and the processes involved in their formation This includes the transportation deposition and transformation of sediments It also emphasizes how the understanding of sedimentary rocks can be used to interpret all continental marginal marine and deep

water oceanic environments Written with undergraduate level students in mind it serves as a primary textbook for the new generation of students Features Fully up to date coverage using the latest studies in the field of sedimentology Many colorful illustrations to facilitate the understanding of key concepts Explanations that are jargon free and easy to understand for the undergraduate level reader Examples to interpret ancient environmental conditions in sediment source areas and depositional sites Written by an experienced researcher and academic who has taught the course at different universities and countries for over 20 years Fundamentals of Sedimentology is an excellent resource for upper level undergraduate and graduate students studying Geology Geomorphology Physical Geology and Geography and it serves as a great reference for entry level researchers who work in the same fields **Basic Geological Mapping** John W. Barnes, Richard J.

Lisle, 2013-04-03 Designed to be carried in the field this pocket sized how to book is a practical guide to basic techniques in mapping geological structures In addition to including the latest computerised developments the author provides succinct information on drawing cross sections and preparing and presenting fair copy maps and geological diagrams Contains a brief chapter on the essentials of report writing and discusses how to keep adequate field notebooks A checklist of equipment needed in the field can be found in the appendices Quote from 3rd edition provides a wealth of good advice on how to measure record and write reports of geological field observations The Naturalist *Geology of the Pacific Northwest*

William N. Orr, Elizabeth L. Orr, 2018-12-20 The geologic history of the Pacific Northwest is as unique as the region itself Completely reorganized and revised the Third Edition of *Geology of the Pacific Northwest* brings the area's volcanism earthquakes tsunamis and geologic environmental issues into sharp focus William and Elizabeth Orr provide a singular perspective and explore the Pacific Northwest writ large including Southeast Alaska British Columbia Washington Oregon Idaho and northern California Descriptive and detailed photographs of the formations and terranes of each subregion are included along with color plates that illuminate and expose the fundamental processes that shaped Pacific Northwest geology The text reveals the geological origins geographic features phenomena and natural resources of areas throughout the region As urban development continues to expand in the tectonically active Pacific Northwest environmental concerns and geologic hazards will grow more and more important The authors central theme that continental plate tectonics are the fundamental processes of Northwest geologic history leads to deeper understanding of the region's geology and new insights in volcanic eruption prediction disaster preparedness and the environmental effects of mining **Key Aspects of Himalayan Geology**

Sandipan Ghosh, 2025-03-27 This book serves as a ready reference book for anyone who is interested in the Himalayan geology and apprises the readers with the latest findings The Himalayan syntaxes compose about one third of the India Asia collision zone and encompass a substantial part of the crustal deformation that occurs within the system The Darjeeling Sikkim Himalaya DSH marks the beginning of the Eastern Himalaya which is the most active orogenic zone coupled with variable seismicity It is located between Bhutan to the east and Nepal to the west In the west Sikkim shares Kanchenjunga

Earth's third highest mountain with Nepal while the ridge line forming Sikkim's eastern border flanks the Yadong Gulu rift graben DSH craved by the river system of Tista is a large geodynamic laboratory of nature where orogen is still in youth to early mature phases of evolution Giant scale endogenous turmoil thoroughly overhauled terrain mostly within the confines of distinct belts or divisions and spectacularly uplifted the terrain in superlative terms Resting on the foundation of structure tectonics geomorphology stratigraphy and evolution the wings of geology extend much further Several books mostly having regional approaches of different scales have been written on the Himalayan geology with specified intentions Geological Aspects of the DSH is based on more than direct references and succinctly opens a gateway to variable aspects of mineral study active tectonics crustal deformation tectono stratigraphy seismicity sedimentary geology palaeontology landslides and tectonic geomorphology The book apprises the readers with the latest findings The book is addressed to university students for their academic needs and to those who are willing to work in Himalayan terrain The large number of topics covered in this book is hardly available in any other single book so far Anyone interested in the geology of the Himalaya might use the book as a quick reference Different Dimensions of Geology and Geomorphology are described in nine key chapters

Handbook of Sea-Level Research Ian Shennan, Antony J. Long, Benjamin P. Horton, 2015-02-19 Measuring sea level change be that rise or fall is one of the most pressing scientific goals of our time and requires robust scientific approaches and techniques This Handbook aims to provide a practical guide to readers interested in this challenge from the initial design of research approaches through to the practical issues of data collection and interpretation from a diverse range of coastal environments Building on thirty years of international research the Handbook comprises 38 chapters that are authored by leading experts from around the world The Handbook will be an important resource to scientists interested and involved in understanding sea level changes across a broad range of disciplines policy makers wanting to appreciate our current state of knowledge of sea level change over different timescales and many teachers at the university level as well as advanced level undergraduates and postgraduate research students wanting to learn more about sea level change Additional resources for this book can be found at www.wiley.com/go/shennan/sealevel *New Publications of the Geological Survey Geological Survey (U.S.), 1989*

New Publications of the U.S. Geological Survey Geological Survey (U.S.), 1990 **Basins of the Rio Grande Rift: Structure, Stratigraphy, and Tectonic Setting** G. Randy Keller, Steven M. Cather, 1994-01-01

Abstracts of North American Geology Geological Survey (U.S.), 1971-07 **The Triassic-Jurassic Terrestrial Transition** Jerry D. Harris, Spencer G. Lucas, Justin A. Speilmann, Martin G. Lockley, Andrew R.C. Milner, James I. Kirkland, 2006-01-01 *Monthly Catalogue, United States Public Documents*, 1995 Monthly Catalog of United States Government Publications, 1995 **The field description of sedimentary rocks** Maurice E. Tucker, 1985

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