# Sedimentary Facies in Geologic History

Longwell, CR

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# **Sedimentary Facies In Geologic History**

**Geological Society of America** 

# **Sedimentary Facies In Geologic History:**

Sedimentary facies in geologic history Chester Ray Longwell. 1949 Sedimentary Facies in Geologic History ,1949 Sedimentary Facies in Geologic History Chester R. Longwell, 1964 Sedimentary Facies in Geologic History Geological Society of America, 1957 Sedimentary Facies in Geologic History Geological Society of America, 1934 **Sedimentary Facies in Geologic History** Geological Society of Sedimentary Facies in Geologic History, 1959 America, 1949 Sedimentary Facies in Geologic History; Conference at Meeting of the Geological Society of America Held InNew York, New York, November 11, 1948 Geological Society of America, 1949 Sedimentary Facies in Geologic History Raymond Cecil Moore, Chester R. Longwell, 1950 in aeologic history .1949 Sedimentary Facies in Geologic History ,1959 Sedimentary Facies in Geologic History Raymond Cecil Moore, 1955 Sedimentary Facies in Geologic History; Conference At Meeting of the Geological Society of America Held in New York, New York, November 11, 1948. Chester R. Longwell, Chairman. Containing Papers by R.C. Moore (And Others) and <u>Discussion by 16 Authors</u> Geological Society of America, Raymond Cecil Moore, 1949 Carbonate Facies in Geologic History J.L. Wilson, 2012-12-06 Since 1950 geologists have learned more about the origin and lithification of carbonate sediments than in all the previous years of the history of science This is true in all the diverse fields of carbonate geology the study of Recent environments marine zoology and botany organic geochemistry trace element and isotope geochemistry mineralogy microfacies of depositional environments and trace fossil and sedimentary structure investigation A synthesis of this new knowledge is just beginning to be formulated The purpose of this volume is to introduce the advanced student and petroleum explorationist principally to one important aspect of this study to some of the principles of carbonate geology which may serve to interpret the depositional environments of ancient strata and to better define their sequences and patterns Chapter I is a brief review of principles of carbonate sedimentation For a full discussion of the mineralogy geochemistry and diagenesis of carbonates along with a review of Holocene sediments one may refer to Bathurst s 1971 and Milliman s 1974 texts Chapter II reviews stratigraphic and paleotectonic concepts and discusses a general model for carbonate deposition Chapter III offers an outline of carbonate petrography concentrating on lithologic description for the purposes of environmental interpretation For a further review of this subject and excellent photomicrographs Horowitz and Potter 1971 and Majewske 1969 may be Application of Modern Stratigraphic Techniques Kenneth Ratcliffe, Brian A. Zaitlin, 2010 Much has been written used and debated about the various methodologies applied to modern stratigraphic analysis and the ever increasing complexity of terminologies However there exist numerous stratigraphic techniques that are reliant upon precise quantitative reproducible data rather than qualitative interpretive stratigraphic methodologies Such stratigraphic techniques are applied in an entirely pragmatic non biased manner within the petroleum industry to provide enhanced stratigraphic understanding of petroleum systems The petroleum industry is a key driver behind the development of new stratigraphic techniques and a major provider

of new stratigraphic data which has resulted in several of these new techniques having been developed as a requirement to the industry Furthermore because techniques such as isotope chemostratigraphy elemental chemostratigraphy magnetic susceptibility stratigraphy numerical biostratigraphy and heavy mineral stratigraphy are based around precise quantified and reproducible analytical data they provide an independent means to test the more interpretive stratigraphic methodologies. This volume attempts an overview of stratigraphic methodologies but largely focuses on data generative stratigraphic techniques such as chemostratigraphy magnetic susceptibility stratigraphy numerical biostratigraphy and heavy mineral stratigraphy Where appropriate each paper discusses data generation methods including sample preparation and analytical methods as well outlining data interpretation methods. This is followed by case histories that demonstrate how those data are used to resolve stratigraphic problems commonly using material derived from petroleum basins around the World

Stratigraphy: A Modern Synthesis Andrew D. Miall, 2022-03-02 The updated textbook is intended to serve as an advanced and detailed treatment of the evolution of the subject of stratigraphy from its disparate beginnings as separate studies of sedimentology lithostratigraphy chronostratigraphy etc into a modern integrated discipline in which all components are necessary There is a historical introduction which now includes information about the timeline of the evolution of the components of modern stratigraphy The elements of the various components facies analysis sequence stratigraphy mapping methods chronostratigraphic methods etc are outlined and a chapter discussing the modern synthesis is included near the end of the book which closes with a discussion of future research trends in the study of time as preserved in the stratigraphic Comparative Planetology, Geological Education, History of Geology Wang Hongzhen, 1997-06 First published in record 1997 Routledge is an imprint of Taylor Francis an informa company Regional Geology and Tectonics: Principles of Geologic Analysis Nicola Scarselli, Jürgen Adam, Domenico Chiarella, 2020-06-17 Regional Geology and Tectonics Principles of Geologic Analysis 2nd edition is the first in a three volume series covering Phanerozoic regional geology and tectonics The new edition provides updates to the first edition s detailed overview of geologic processes and includes new sections on plate tectonics petroleum systems and new methods of geological analysis This book provides both professionals and students with the basic principles necessary to grasp the conceptual approaches to hydrocarbon exploration in a wide variety of geological settings globally Discusses in detail the principles of regional geological analysis and the main geological and geophysical tools Captures and identifies the tectonics of the world in detail through a series of unique geographic maps allowing quick access to exact tectonic locations Serves as the ideal introductory overview and complementary reference to the core concepts of regional geology and tectonics offered in volumes 2 and 3 in the series Stratigraphy and Geologic History of the Amsden Formation (Mississippian and Pennsylvanian) of Wyoming William Jasper Sando, Mackenzie Gordon, J. Thomas Dutro, 1975 An analysis of the history of a Late Paleozoic sea based on a comprehensive biostratigraphy study The Geology of Stratigraphic Sequences Andrew D. Miall, 2010-06-09 It has been more than a decade since the appearance of the

First Edition of this book Much progress has been made but some controversies remain The original ideas of Sloss and of Vail building on the early work of Blackwelder Grabau Ulrich Levorsen and others that the stratigraphic record could be subdivided into sequences and that these sequences store essential information about basin forming and subsidence processes remains as powerful an idea as when it was first formulated The definition and mapping of sequences has become a standard part of the basin analysis process The main purpose of this book remains the same as it was for the first edition that is to situate sequences within the broader context of geological processes and to answer the question why do sequences form Geoscientists might thereby be better equipped to extract the maximum information from the record of sequences in a given basin or region Tectonic climatic and other mechanisms are the generating mechanisms for sequences ranging over a wide range of times scales from hundreds of millions of years to the high frequency sequences formed by cyclic processes lasting a few tens of thousands of years

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