

Reef Diagenesis

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Reef Diagenesis

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Reef Diagenesis:

Reef Diagenesis J.H. Schroeder, B.H. Purser, 2012-12-06 1 2 J H SCHROEDER and B H PURSER 1 Introduction A symposium convened during the Vth International Coral Reef Congress in Papeete Tahiti 1985 encouraged the editors to assemble this volume of case studies by participating and especially by nonparticipating scientists An attempt was made to include case studies from various regions and geological periods carried out on various scales from regional to ultrastructural We hope to present an overall view of reef diagenesis Although the volume focuses on reef diagenesis fields also to be considered are biology paleontology and sedimentary facies distribution as they provide the context and to some extent encompass the determinants of diagenetic processes The scope has been limited to reef diagenesis because we feel that reefs have relatively clearly defined geometries which facilitate the evaluation of diagenetic trends and the definition of diagenetic models On the other hand their many different components make reefs somewhat more complex than other deposits and this creates difficulties in deciphering diagenetic histories the study of reefs therefore is not the simplest manner of solving the many problems relating to carbonate diagenesis An additional reason for evaluating reef diagenesis is the reservoir potential of these carbonate bodies To illustrate the point in the recent collection of 35 case studies of carbonate reservoirs Roehl and Choquette 1985 reefs were involved in 15 The emphasis on porosity development in many studies of the present volume is therefore not of mere academic interest

Encyclopedia of Modern Coral Reefs David Hopley, 2010-11-26 Coral reefs are the largest landforms built by plants and animals Their study therefore incorporates a wide range of disciplines This encyclopedia approaches coral reefs from an earth science perspective concentrating especially on modern reefs Currently coral reefs are under high stress most prominently from climate change with changes to water temperature sea level and ocean acidification particularly damaging Modern reefs have evolved through the massive environmental changes of the Quaternary with long periods of exposure during glacially lowered sea level periods and short periods of interglacial growth The entries in this encyclopedia condense the large amount of work carried out since Charles Darwin first attempted to understand reef evolution Leading authorities from many countries have contributed to the entries covering areas of geology geography and ecology providing comprehensive access to the most up to date research on the structure form and processes operating on Quaternary coral reefs

The History and Sedimentology of Ancient Reef Systems George D. Stanley Jr., 2013-11-11 From the Preface The chapters of this book contain contributions from an international group of specialists They address some important themes in both modern and ancient reef systems Some chapters contain snapshots of reefs of particular intervals while others touch on relevant themes of both modern and ancient reefs themes that weave their way through reefs of all ages This book opens and sets the stage with an introduction to both modern and ancient reefs and reef ecosystems This chapter is also intended as a basic introduction for students general geologists and professionals or others who may be unfamiliar with reefs and reef ecosystems The chapter addresses the

living coral reef ecosystem stressing among other relevant factors the importance of ecological and physical interactions between the organisms and their environment The chapter also addresses mass extinction and provides a general overview of the history of reefs

Reef Evolution Rachel Wood, 1999 Reefs are an extraordinary natural phenomenon Visible from outer space coral reefs are the largest biologically constructed features known in close proximity their spectacular beauty and abundance of life is dazzling Reefs are estimated to occupy only a small percentage of the oceans but their importance to the marine environment is many faceted and global Reefs create harbours and allow the development of shallow basins with associated mangrove or seagrass communities they protect coastlines from erosion reefs are involved in the regulation of atmospheric carbon which in turn contributes to climate control ancient reefs can provide extensive oil and gas reservoirs From a biological standpoint however the great significance of reefs lies in their ability to generate and maintain a substantial proportion of tropical marine biodiversity This text documents those biological innovations which have moulded the evolution of reef ecosystems and given rise to the highly complex communities found today The appearance of clonality the acquisition of photosymbiosis and the radiation of predator groups are all discussed in depth Throughout the book Rachel Wood uses data from the fossil record to document the evolutionary development of reef ecosystems This interdisciplinary approach has the aim of providing an analytical text which will be of value not only to advanced undergraduates and postgraduate courses but also to researchers in ancient reef ecology Rachel Wood is Royal Society University Research Fellow and Fellow Gonville and Caius College Cambridge

Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part I G.C. Dominguez, F. Samaniego V., 1992-01-17 This book integrates those critical geologic aspects of reservoir formation and occurrence with engineering aspects of reservoirs and presents a comprehensive treatment of the geometry porosity and permeability evolution and producing characteristics of carbonate reservoirs The three major themes discussed are the geometry of carbonate reservoirs and relationship to original depositional facies distributions the origin and types of porosity and permeability systems in carbonate reservoirs and their relationship to post depositional diagenesis the relationship between depositional and diagenetic facies and producing characteristics of carbonate reservoirs and the synergistic geologic engineering approach to the exploitation of carbonate reservoirs The intention of the volume is to fully acquaint professional petroleum geologists and engineers with an integrated geologic and engineering approach to the subject As such it presents a unique critical appraisal of the complex parameters that affect the recovery of hydrocarbon resources from carbonate rocks The book may also be used as a text in petroleum geology and engineering courses at the advanced undergraduate and graduate levels

Quaternary Coral Reef Systems Lucien F. Montaggioni, Colin J.R. Braithwaite, 2009-08-13 This book presents both state of the art knowledge from Recent coral reefs 1 8 million to a few centuries old gained since the eighties and introduces geologists oceanographers and environmentalists to sedimentological and paleoecological studies of an ecosystem encompassing some of the world s richest biodiversity Scleractinian reefs first

appeared about 300 million years ago Today coral reef systems provide some of the most sensitive gauges of environmental change expressing the complex interplay of chemical physical geological and biological factors The topics covered will include the evolutionary history of reef systems and some of the main reef builders since the Cenozoic the effects of biological and environmental forces on the zonation of reef systems and the distribution of reef organisms and on reef community dynamics through time changes in the geometry anatomy and stratigraphy of reef bodies and systems in relation to changes in sea level and tectonics the distribution patterns of sedimentary framework or detrital facies in relation to those of biological communities the modes and rates of reef accretion progradation aggradation versus backstepping coral growth versus reef growth the hydrodynamic forces controlling water circulation through reef structures and their relationship to early diagenetic processes the major diagenetic processes affecting reef bodies through time replacement and dissolution dolomitization phosphatogenesis and the record of climate change by both individual coral colonies and reef systems over the Quaternary state of the art knowledge from Recent corals reefs introduction to sedimentological and paleoecological studies of an ecosystems encompassing some of the world s richest biodiversity authors are internationally regarded authorities on the subject trustworthy information **Geological Approaches to Coral Reef Ecology** Richard B. Aronson, 2007-03-09

This book provides a unique perspective on the destruction both natural and human caused of coral reef ecosystems Reconstructing the ecological history of coral reefs the authors evaluate whether recent dramatic changes are novel events or part of a long term trend or cycle The text combines principles of geophysics paleontology and marine sciences with real time observation examining the interacting causes of change hurricane damage predators disease rising sea level nutrient loading global warming and ocean acidification Predictions about the future of coral reefs inspire strategies for restoration and management of ecosystems Useful for students and professionals in ecology and marine biology including environmental managers **Petroleum Sedimentology** Winfried Zimmerle, H. Zimmerle, 1995-04-30 Knowledge of the principles and methods of petroleum sedimentology is essential for oil and gas exploration and exploitation This book is designed as an introductory text for students in petroleum geology and applied sedimentology as well as a useful companion for advanced technicians explorationists geophysicists and petroleum engineers Source rock lithology and type of trap define the quality of a hydrocarbon accumulation This interrelationship is exemplified by seven case histories worldwide NW Europe Saudi Arabia U S A Mexico CIS China Moreover successful exploitation and enhanced oil recovery often depend on an adequate knowledge of the sedimentology of a reservoir Photographs illustrate macroscopic and microscopic aspects of source rocks as well as reservoir sandstones and limestones that are most important for hydrocarbon exploration A comprehensive list of references encourages further study *Carbonate Reservoirs* Clyde H. Moore, William J. Wade, 2013-08-12 Major porosity modifying processes operating in the marine diagenetic realm are 1 cementation in shallow warm waters 2 dolomitization accompanied by minor porosity enhancement in deep waters below the aragonite and calcite lysoclines and 3 dolomitization associated

with organic degradation during early burial In shallow normal marine environments porosity is lost through abiotic and microbially mediated cementation Such cementation is most abundant in shelf margin reefs high energy intertidal zones and isolated hardgrounds Abiotic and microbial cementation in reefs in combination with bioerosion and internal sedimentation can totally destroy high initial reef framework porosities Although intertidal and hardground cements tend to be vertically and laterally restricted these zones can act as permeability barriers in reservoirs Deep marine slope and basin environments can experience significant porosity modification Aragonite cementation on the upper slope extends to 60m depth at present During the Paleozoic and Mesozoic eras carbonate mud mounds developed on upper shelf slopes and distal ramps Microbial processes in these mounds contributed to both early cementation and dissolution Many such mounds formed in conjunction with hydrothermal and cold petroleum vents on the seafloor some of these mud mounds are significant reservoirs Where the thermocline and carbonate lysoclines impinge on steep carbonate platform margins that front oceanic basins dissolution of aragonite and or calcite precipitation of radial calcite cement and dolomitization can occur Kohout thermal convection and mixing zone induced seawater circulation are the most likely hydrologic pumps driving large volumes of marine water through steep platform margins At relatively shallow depths in the sediment rock column decomposition of organic matter mediated by sulfate reducing bacteria can promote dissolution of aragonite and Mg calcite calcite cementation and massive dolomitization

Carbonate Sequence Stratigraphy Robert G. Loucks, J. Frederick Sarg, 1983-04-15 Hardcover plus Foldouts
Carbonate Mud-Mounds C. L. V. Monty, D. W. J. Bosence, P. H. Bridges, B. R. Pratt, 2009-04-13 This is the first book to investigate the structure origin and evolution of carbonate mud mounds Mud mounds are accumulations of biogenic carbonate sediment that are common in the geological record and economically important as they host lead zinc mineralization and oil and gas The book reviews for the first time the different mechanisms of mud mound formation and examines in detail the major changes in mud mound type and occurrence through geological time The major part of the book contains case studies of mud mounds from the Palaeozoic Mesozoic and Cenozoic The coverage is global and truly international with 32 authors from 10 countries The first volume to deal with the structure formation and evolution of mud mounds Copiously illustrated with nine colour plates If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP23>

Shore Ecology of the Gulf of Mexico Joseph C. Britton, Brian Morton, 2014-01-07 To the casual visitor the Gulf of Mexico shores offer mainly sun sand and sea Even the standard field guides focused on one group of animals or plants barely hint at the wealth and diversity of habitats and species along Gulf shores Shore Ecology of the Gulf of Mexico using a whole habitat approach breaks new ground in describing all the conspicuous vascular plants algae birds mammals mollusks crustaceans and other invertebrates for each marine habitat The area covered begins west of the Mississippi delta in Louisiana and follows the shores west and south to the Yucatan Peninsula in Mexico Transitions between habitats also receive detailed treatment The authors discuss

changes in flora and fauna that result from differences in climate shore geology and patterns of precipitation in the succeeding habitats along the Gulf rim They include discussion of more than 1 000 species of plants and animals both on shore and in the near shore subtidal zone to give a virtually complete picture of western Gulf coast ecosystems Excellent line drawings and photographs of over 800 species complement the text For marine scientists students and knowledgeable beachcombers this is a thorough source on Gulf coast marine life

Coral Reefs of the Eastern Tropical Pacific Peter W. Glynn, Derek P. Manzello, Ian C. Enochs, 2016-08-12 This book documents and examines the state of health of coral reefs in the eastern tropical Pacific region It touches on the occurrence of coral reefs in the waters of surrounding countries and it explores their biogeography biodiversity and condition relative to the El Niño southern oscillation and human impacts Additionally contained within is a field that presents information on many of the species presented in the preceding chapters

Corals and Reefs Bertrand Martin-Garin, Lucien F. Montaggioni, 2023-02-24 The health status and future of tropical coral reefs as tourist destinations are regularly subjected to media coverage Many documentaries recognize the natural beauty and biological richness of the Australian Great Barrier Reef and French Polynesian lagoons but point to the equally significant risk that would result from current global warming and human made hazards The future of coral reefs is usually a matter of death foretold real or purely imaginary In this context it has become necessary to differentiate between what is falling within reality of scientific facts or fantasy To this end the present general review in the expert translation of Charlotte Fontan aims at 1 defining the conditions and life requirements of reefbuilding corals 2 the history of corals along with that of a number of associated skeletal organisms involved in reef building since the very beginning i.e. the last 540 million years including the ups and downs they have experienced 3 giving special reference to the development patterns of recent and modern reefs 4 projecting corals and reefs into a still unknown future Understanding how corals and reefs have originated how they have been able to face the major biological crises which have punctuated the Earth's history how they have survived is a prerequisite to better gain a significant picture of their future

Geology and hydrogeology of carbonate islands Leonard H.L. Vacher, Terrence M. Quinn, 2004-04-13 This book on geology and hydrogeology of carbonate islands is volume 54 in the Developments in Sedimentology series

Carbonate Microfabrics Richard Rezak, Dawn L.

Lavoie, 2012-12-06 Carbonate Microfabrics is the first attempt to bring together in one reference the application of microfabric analysis to the solution of problems in the fields of geology geophysics and geotechnique This book the result of a symposium and workshop on carbonate microfabrics explores the relationship of microfabrics to fundamental properties and processes in carbonates Carbonate Microfabrics will be of particular interest to geologists and is intended to be of general interest to researchers in such related fields as geochemistry geophysics and geotechnique

Geology of Fossil Fuels ---

Oil and Gas Sun Zhaocai, Wang Tinbin, Ye Deliao, Song Guojin, 2021-12-17 First published in 1997 This is a collection of papers from the thirtieth conference of the International Geographical Congress focusing on the Part A Geology of Fossil

fuels Oil and Gas whereas part B looks at Coal The proceedings took place in Beijing China between the 4 14th August 1996

Geology of Fossil Fuels - Oil and Gas Zhaocai Sun, 1997

Carbonate Sedimentology Maurice E. Tucker, V. Paul Wright, 2009-07-17 Carbonate rocks limestones and dolomites constitute a major part of the geological column and contain not only 60% of the world's known hydrocarbons but also host extensive mineral deposits This book represents the first major review of carbonate sedimentology since the mid 1970s It is aimed at the advanced undergraduate postgraduate level and will also be of major interest to geologists working in the oil industry Carbonate Sedimentology is designed to take the reader from the basic aspects of limestone recognition and classification through to an appreciation of the most recent developments such as large scale facies modelling and isotope geochemistry Novel aspects of the book include a detailed review of carbonate mineralogy non marine carbonate depositional environments and an in depth look at carbonate deposition and diagenesis through geologic time In addition the reviews of individual depositional systems stress a process based approach rather than one centered on simple comparative sedimentology The unique quality of this book is that it contains integrated reviews of carbonate sedimentology and diagenesis within one volume

The Zoological Record, 1996

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