

Ecological Studies 50

Z. Reiss · L. Hottinger

The Gulf of Aqaba

Ecological Micropaleontology



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The Gulf Of Aqaba Ecological Micropaleontology

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The Gulf Of Aqaba Ecological Micropaleontology:

The Gulf of Aqaba Zeev Reiss, Lukas Hottinger, 2012-12-06 The reconstruction of ancient marine environments is an important task of the Earth Sciences of great interest to geology pure and applied to oceanography and climatology as well as to such fields as ecology and evolution In principle such reconstructions are based on the actualistic approach of the present is the key to the past Since the deciphering of past environmental changes either natural or man made has considerable bearing on planning the past may provide a key to the future Paleoenvironmental interpretations in the marine realm are based to a great extent on assemblages of fossils recovered from ancient sediments in outcrops and from land based or submarine drillings Observable lateral sequences of assemblages in contemporaneous strata the known or assumed functional or adaptive significance of preserved skeletal structures as well as their evolution through time and space provide by themselves indications of ancient environmental settings In some cases even present day ecological considerations may be derived from analysis of fossils *The Gulf of Aqaba* Zeev Reiss, 1984 **Foraminiferal Micropaleontology for**

Understanding Earth's History Pratul Kumar Saraswati, 2021-06-12 Foraminiferal Micropaleontology for Understanding Earth's History incorporates new findings on taxonomy classification and biostratigraphy of foraminifera Foraminifera offer the best geochemical proxies for paleoclimate and paleoenvironment interpretation The study of foraminifera was promoted by oil exploration due to its exceptional use in subsurface stratigraphy A rapid technological development in the past 20 years in the field of imaging microfossils and in geochemical microanalysis have added novel information about foraminifera Foraminiferal Micropaleontology for Understanding Earth's History builds an understanding of biology morphology and classification of foraminifera for its varied applications In the past two decades a phenomenal growth has occurred in geochemical proxies in shells of foraminifera and as a result crucial information about past climate of the earth is achieved Foraminifera is the most extensively used marine microfossils in deep time reconstruction of the earth history Its key applications are in paleoenvironment and paleoclimate interpretation paleoceanography and biostratigraphy to continuously improve the Geologic Time Scale Provides an overview of the Earth history as witnessed and evidenced by foraminifera Discusses a variety of geochemical proxies used in reconstruction of environment climate and paleobiology of foraminifera Presents a new insight into the morphology and classification of foraminifera by modern tools of x ray microscopy quantitative methods and molecular research *Environmental Micropaleontology* Ronald E. Martin, 2012-12-06 Microfossils are ideally suited to environmental studies because their short generation times allow them to respond rapidly to environmental change This book represents an assessment of the progress made in environmental micropaleontology and sets out future research directions The taxa studied are mainly foraminifera but include arcellaceans diatoms dinoflagellates and ostracodes The papers themselves range from reviews of applications of particular taxa to specific case studies

Hypersaline Ecosystems G.M. Friedman, W.E. Krumbein, 2012-12-06 **Modern Planktonic Foraminifera** Christoph

Hemleben, Michael Spindler, O. Roger Anderson, 2012-12-06 In a single volume the authors bring together a review of current biological understanding of planktonic foraminifera and apply it to developments in sedimentology With the growing interest in the shells of this class of protozoa as indicators of the history of the earth revealed through the sedimentary record a comprehensive analysis of the biology of contemporary foraminifera has become necessary Main topics covered include Taxonomy Collecting and Culture Methods Cellular Ultrastructure Host and Symbiont Relationships Trophic Activity and Nutrition Reproduction Shell Ontogeny and Architecture Ecology and Sedimentation and Settlement of Shells **Ecology and Palaeoecology of Benthic Foraminifera** John W. Murray, 2014-10-13 This is an important and authoritative review of foraminiferal ecology the first for over a decade Professor Murray relates ecological data on living forms of foraminifera to the palaeoecology of fossil species and defines in detail areas of global distribution **World Seas: An Environmental Evaluation** Jean-Francois Hamel, 2018-09-03 World Seas An Environmental Evaluation Second Edition Volume Two The Indian Ocean to the Pacific provides a comprehensive review of the environmental condition of the seas from the Indian Ocean to the Pacific Each chapter is written by experts in the field who provide historical overviews in environmental terms current environmental status major problems arising from human use informed comments on major trends problems and successes and recommendations for the future The book is an invaluable worldwide reference source for students and researchers who are concerned with marine environmental science fisheries oceanography and engineering and coastal zone development Covers regional issues that help countries find solutions to environmental decline that may have already developed elsewhere Provides scientific reviews of regional issues thus empowering managers and policymakers to make progress in under resourced countries and regions Includes comprehensive maps and updated statistics in each region covered *Modern Foraminifera* Barun K. Sen Gupta, 2007-05-08 From the reviews This is now the definitive authoritative text on applied foraminiferal micropaleontology and should be in the library of all practicing micropaleontologists William A Berggren Woods Hole Oceanographic Institution in Micropaleontology 47 1 2001 During the last 20 years there has been an explosion of publications about foraminifera from an amazing variety of disciplines basic cell biology algal symbiosis biomineralization biogeography ecology pollution chemical oceanography geochemistry paleoceanography and geology This book summarizes contributions by leading researchers in these diverse fields It is not just another text on the biology of foraminifera Rather Barun Sen Gupta has accomplished his objective to write an advanced text for university students that would also serve as a reference book for professionals Howard J Spero University of California at Davis in Limnology and Oceanography 45 8 2000 Coral Health and Disease Eugene Rosenberg, Yossi Loya, 2004-04-27 This book opens with case studies of reefs in the Red Sea Caribbean Japan Indian Ocean and the Great Barrier Reef A section on microbial ecology and physiology describes the symbiotic relations of corals and microbes and the microbial role in nutrition or bleaching resistance of corals Coral diseases are covered in the third part The volume includes 50 color photos of corals and their

environments Evolution and Geological Significance of Larger Benthic Foraminifera, Second Edition Marcelle K. Boudaugh-Fadel, 2018-04-30 Evolution and Geological Significance of Larger Benthic Foraminifera is a unique comprehensive reference work on the larger benthic foraminifera This second edition is substantially revised including extensive re analysis of the most recent work on Cenozoic forms It provides documentation of the biostratigraphic ranges and palaeoecological significance of the larger foraminifera which is essential for understanding many major oil bearing sedimentary basins In addition it offers a palaeogeographic interpretation of the shallow marine late Palaeozoic to Cenozoic world Marcelle K BouDagher Fadel collects and significantly adds to the information already published on the larger benthic foraminifera New research in the Far East the Middle East South Africa Tibet and Americas has provided fresh insights into the evolution and palaeographic significance of these vital reef forming forms With the aid of new and precise biostratigraphic dating she presents revised phylogenies and ranges of the larger foraminifera The book is illustrated throughout with examples of different families and groups at the generic levels Key species are discussed and their biostratigraphic ranges are depicted in comparative charts which can be found at <http://discovery.ucl.ac.uk/10047587/2/Charts.pdf>

Geologic Problem Solving with Microfossils Thomas David Demchuk, Anthony C. Gary, 2009 **Larger Benthic Foraminifera Through Space and Time** Pratul Kumar Saraswati, 2024-05-26 Foraminifera are single celled marine organisms usually less than a millimeter in size and their fossil records extend back in geological time some 500 million years Some foraminifera have grown to over 10 centimeters these are informally called larger benthic Foraminifera LBF LBF are of outstanding value in field and in laboratory experiments They can serve as geochemical proxies and can be used to learn about biology biomineralization process and more Their study finds wide ranging geological applications including the carbonate platforms past environmental changes and stratigraphy There are many books on micropaleontology fewer on Foraminifera and practically none on LBF The ones that do exist are generally too specialized for micropaleontology and carbonate sedimentology doctoral students to utilize This volume aims to fill this gap by providing readers with an understanding of the morphology and distribution of LBF in space environment and time evolution In addition the isotope and trace metal proxies in LBF are discussed for paleoclimate reconstruction This volume will benefit researchers and professionals in micropaleontology hydrocarbon exploration carbonate sedimentology and paleoclimate Triassic-Jurassic Rifting W. Manspeizer, 2015-08-26 Extensive field studies on the African and North American plates during this past decade have yielded a wealth of new data and ideas about rift basins and the origin of passive margins New surface and subsurface basins have been identified fossils abound in strata that only recently were considered barren oil exploration is being actively pursued in continental strata of the Richmond Taylorsville Sanford and Newark basins Late Triassic marine strata have been identified in Georges Bank off the coast of Massachusetts and the roles of wrench tectonics successor basins and listric normal faults have challenged the classical view that these are simple extensional basins This two part work brings together

representative examples of these studies It is not intended as an exhaustive synthesis of the subject but rather a vehicle to present new data new ideas and alternative views Some of the papers present regional summaries others attempt to relate local features to regional questions while others describe modern rift basins as possible analogs of early Mesozoic basins Geologic data from the Atlantic passive margins record that continental rifting of central Pangaea occurred during the latest Triassic earliest Jurassic Liassic and that sea floor spreading probably began no later than the Middle Jurassic The primary subject of this book focuses on the Triassic Jurassic rifting events that led to the breakup of Pangaea and the opening of the central Atlantic Ocean Whereas other treatises have focused on the origin of the passive margins inferred primarily from geophysical data of the offshore basins this volume primarily and uniquely focuses on land based field studies of the onshore synrift basins Offshore studies of synrift basins are also included and add substantially to our understanding of the breakup However the onshore data base while complementary is different thus providing researchers with a different insight to the questions at hand The book is organized into four sections Section I Pangaeon Plate in Time and Space first locates Pangaea in space and then places the Triassic basins within an historical context on the Alleghanian Variscan Orogens Section 2 the offshore and onshore basins of the North American and African Plates comprises about 70% of all papers in this book and includes papers on structural geology petrology paleontology sedimentation organic geochemistry vulcanism and mineral resources Section 3 Related Mesozoic Atlantic Rift Basins includes papers on Iberia Western Europe the Benue Trough and Brazil The final section of the book Analogs includes the rift basins of East Africa the Red Sea the Gulf of Elat Aqaba the Dead Sea and the Rio Grande The book is richly illustrated throughout with figures photographs tables and fold out maps including nine in full colour

The Sea, Volume 14B: the Global Coastal Ocean Allan R. Robinson, Kenneth H. Brink, 2006 In

multidisciplinary efforts to understand and manage our planet contemporary ocean science plays an essential role Volumes 13 and 14 of The Sea focus on two of the most important components in the field of ocean science today the coastal ocean and its interactions with the deep sea and coupled physical biogeochemical and ecosystem dynamics

Carbon Cycling in the Glacial Ocean: Constraints on the Ocean's Role in Global Change Rainer Zahn, Thomas F. Pedersen, Michael A. Kaminski, Laurent Labeyrie, 2013-06-29 A comprehensive progress report on the multi disciplinary field of ocean and climate change research is given It compiles introductory background papers and leading scientific results on the ocean atmosphere carbon cycle with emphasis on the ocean's carbon inventory and the various components involved The relationship between plankton productivity carbon fixation oceanic PCO₂ and climate change is investigated from the viewpoint of long term climatic change during the late Quaternary cycles of ice ages and warm ages The various approaches range from micropaleontology over organic and trace element geochemistry to molecular isotope geochemistry

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 18 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 ecosystem encompassing some of the world's richest biodiversity. Authors are internationally regarded authorities on the subject. Trustworthy information.

Recent Foraminifera from the Gulf of Aqaba, Red Sea Lukas Hottinger, Luc Hottinger, Elwira Halicz, Zeev Reiss, 1993 **Tidal Flat Ecology** Karsten

Reise, 2012-12-06 The tidal coastline presents a fascinating ecological world. Rocky shores with their recurrent zonation of algae and sessile invertebrates demonstrate the orderliness of nature, apparently obeying general explanatory principles. The niche theory could just as well have hatched out of the tight species packing on the coral reef flats. Fluxes of carbon and nitrogen are best studied in mangroves and salt marshes with their outstanding primary productivity. The bare mud and sands of the tidal flats are different. Their ecological treasures are well concealed and perhaps not to everybody's taste. Pick up a piece of tidal sediment and see how it resembles a large rotten cheese. It smells, is slimy and sticky, is punched with holes and crowded with various worms. Tidal flats receive detritus from both the land and the sea. They support a rich benthic community which attracts birds from far distant breeding grounds and serves as a nursery for crabs, shrimp, and fish. Tidal flats are a busy ecological turntable. They import low valued organic matter and they export well fed birds to the land and grown up fish to the sea. They offer ideal opportunities for aquaculture but are also used as dumping grounds for industrial wastes. All this may call for a marine ecologist to investigate the basic processes involved. Yet there is still another reason.

The Legacy of Tethys F.D. Por, 2012-12-06 This book is an attempt to present a comprehensive view on the aquatic biogeography of a small but very dynamic and complex area of the globe. Luckily this area, called here the Levant, has attracted much interest in the past and is being increasingly studied in the present. The interphasing between the knowledge of the historical and formative processes and that of the recent distributional aspects is fairly good. The recent years saw also

a widening effort which expressed itself in several symposia and monographic books Therefore I considered it possible to treat the whole subject of the aquatic biogeography of the Levant singlehandedly rather than in the presently widespread manner of an edited book I am keenly conscious of the shortcomings of my approach of presenting much second hand information Possibly this is being compensated by the fact that this book has a more coherent structure and eventually a clearer scientific message The effort spent in synthesizing the data from the widely different sources hopefully pays off in a presentation which is more easily comprehended by the average reader For the suspicious reader I would recommend to read first the closing chapter of this book in which the quintessence of this book and its message is presented in a summarizing manner

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