



DEVELOPMENTS IN SEDIMENTOLOGY 64

TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS

EDITED BY

DIRK KNAUST AND RICHARD G. BROMLEY



SERIES EDITOR: A. J. VAN LOON

Trace Fossils As Indicators Of Sedimentary Environments Volume 64 Developments In Sedimentology

**Rosalía Guerrero-Arenas, Eduardo
Jiménez-Hidalgo**



Trace Fossils As Indicators Of Sedimentary Environments Volume 64 Developments In Sedimentology:

Trace Fossils as Indicators of Sedimentary Environments Dirk Knaust, Richard G. Bromley, 2012-12-31 Integration of ichnological information into sedimentological models and vice versa is one of the main means by which we can improve our understanding of ancient depositional environments. Mainly intended for sedimentologists, this book aims to make ichnological methods as part of facies interpretation more popular, providing an analytical review of the ichnology of all major depositional environments and the use of ichnology in biostratigraphic and sequence stratigraphic analysis. It starts with an introduction to the historical aspect of ichnology, introducing common concepts and methods, and then continues with parts treating the main depositional systems from continental shallow marine and deep marine siliciclastics and marine carbonates. The last part is dedicated to the ichnology in hydrocarbon reservoir and aquifer characterization. First overview in 25 years of the status of ichnological studies in facies reconstructions of all major depositional environments. Written by a selected well experienced and specialized international authorship. Provides easy access to the comprehensive and widespread literature.

Atlas of Trace Fossils in Well Core Dirk Knaust, 2017-03-15 This book provides readers with a well balanced blend of high quality photographs, figures and accompanying texts on the identification of trace fossils both in core and in outcrop. Ichnological data has become increasingly important in sedimentological and paleoenvironmental interpretations, not only in the exploration and exploitation of hydrocarbons but also in the characterization of aquifers and in scientific drilling. Following an introduction to the study of trace fossils in core and an outline of ichnological basics, principles and concepts, the book provides detailed descriptions and interpretations of 39 trace fossils, ichnogenera and associated features such as bioturbate texture, plant roots and their traces, borings and pseudo trace fossils commonly encountered in well cores and in outcrop. The trace fossils are highlighted by their expression in well cores and illustrated with carefully prepared eye catching core photographs. This unique information is complemented by examples of trace fossils in outcrop as well as relevant key figures from the literature. Each description is presented in a consistent manner, stating the ichnogenus name and author in the title, followed by sections on the morphology and size, ichnotaxonomy, substrate appearance in core, similar trace fossils, producers, ethology, depositional environment, ichnofacies, age and reservoir quality. An extensive list of references per chapter for further reading rounds out the book, which is based on the author's continuous work with trace fossils in core over the past two decades.

Deepwater Sedimentary Systems Jon R. Rotzien, Cindy A. Yeilding, Richard A. Sears, F. Javier Hernández-Molina, Octavian Catuneanu, 2022-08-18 *Deepwater Sedimentary Systems: Science, Discovery and Applications* helps readers identify, understand and interpret deepwater sedimentary systems at various scales, both onshore and offshore. This book describes the best practices in the integration of geology, geophysics, engineering, technology and economics used to inform smart business decisions in these diverse environments. It draws on technical results gained from deepwater exploration and production drilling campaigns and global field analog studies. With the multi-decadal resilience of

deepwater exploration and production and the nature of its inherent uncertainty this book serves as the essential reference for companies consultancies universities governments and deepwater practitioners around the world seeking to understand deepwater systems and how to explore for and produce resources in these frontier environments From an academic perspective readers will use this book as the primer for understanding the processes deposits and sedimentary environments in deep water from deep oceans to deep lakes This book provides conceptual approaches and state of the art information on deepwater systems as well as scenarios for the next 100 years of human led exploration and development in deepwater offshore environments The students taught this material in today s classrooms will become the leaders of tomorrow in Earth s deepwater frontier This book provides a broad foundation in deepwater sedimentary systems What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided here in one book Presents a holistic view of how subsurface and engineering processes work together in the energy industry bringing together contributions from the various technical and engineering disciplines Provides diverse perspectives from a global authorship to create an accurate picture of the process of deepwater exploration and production around the world Helps readers understand how to interpret deepwater systems at various scales to inform smart business decisions with a significant portion of the workflows derived from the upstream energy industry

Fluvial-Tidal Sedimentology, 2015-11-26 Fluvial Tidal Sedimentology provides information on the Tidal Fluvial Transition the transition zone between river and tidal environments and includes contributions that address some of the most fundamental research questions including how the morphology of the tidal fluvial transition zone evolves over short days and long decadal time periods and for different tidal and fluvial regimes the structure of the river flow as it varies in its magnitude over tidal currents and how this changes at the mixing interface between fresh and saline water and at the turbidity maximum the role of suspended sediment in controlling bathymetric change and bar growth and the role of fine grained sediment muds and flocs whether it is possible to differentiate between fluvial and tidally influenced bedforms as preserved in bars and within the adjacent floodplain and what are the diagnostic sedimentary facies of tidal fluvial deposits and how are these different from pure fluvial and tidal deposits amongst other topics The book presents the latest research on the processes and deposits of the tidal fluvial transition documenting recent major field programs that have quantified the flow sediment transport and bed morphology in tidal fluvial zones It uses description of contemporary environments and ancient outcrop analogues to characterize the facies change through the tidal fluvial transition Presents the latest outcomes from recent large integrated field programs in estuaries around the world Gives detailed field descriptions outcrop borehole core contemporary sediments of tidal fluvial deposits Accesses new models and validation datasets for estuarine processes and deposits Presents descriptions of contemporary environments and ancient outcrop analogues to characterize the facies change through the tidal fluvial transition

The Trace-Fossil Record of Major Evolutionary Events M. Gabriela Mángano, Luis A. Buatois, 2016-11-17

This volume addresses major evolutionary changes that took place during the Ediacaran and the Paleozoic. These include discussions on the nature of Ediacaran ecosystems as well as the ichnologic signature of evolutionary radiations such as the Cambrian explosion and the Great Ordovician biodiversification event, the invasion of the land and the end Permian mass extinction. This volume set provides innovative reviews of the major evolutionary events in the history of life from an ichnologic perspective. Because the long temporal range of trace fossils has been commonly emphasized, biogenic structures have been traditionally overlooked in macroevolution. However, comparisons of ichnofaunas through geologic time do reveal the changing ecology of organism-substrate interactions. The use of trace fossils in evolutionary paleoecology represents a new trend that is opening a window for our understanding of major evolutionary radiations and mass extinctions. Trace fossils provide crucial evidence for the recognition of spatial and temporal patterns and processes associated with paleoecologic breakthroughs.

Past Environments of Mexico Rosalía Guerrero-Arenas, Eduardo Jiménez-Hidalgo, 2024-04-01 Mexico is a biodiverse country. The dynamics of environments from Mexico played a crucial role in the history of North American biota. This book analyzes the paleoenvironmental conditions using several biological groups and various methods. This book also demonstrates how this information is specifically used to elucidate Mexico's past environments and habitats: terrestrial, freshwater, and marine. This book fills an existing editorial gap since much of the information is dispersed in several bibliographic sources. The authors are active paleontologists in diverse Mexican universities and research centers. Their research activities contribute to the knowledge of the Mexican biota through geologic time.

Proceedings of the International Field Exploration and Development Conference 2021 Jia'en Lin, 2022-09-07 This book focuses on reservoir surveillance and management, reservoir evaluation and dynamic description, reservoir production stimulation and EOR, ultra-tight reservoir, unconventional oil and gas resources, technology, oil and gas well production testing and geomechanics. This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference (IFEDC 2021). The conference not only provides a platform to exchange experience but also promotes the development of scientific research in oil and gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers, senior engineers, as well as professional students.

Mangrove Ichnology of the Bay of Bengal Coast, Eastern India Chiranjana De, 2018-12-06 This book focuses on the world's largest mangrove delta complex located at Sundarban, a world heritage site, and on the relatively new and rapidly expanding scientific discipline of ichnology. In addition to presenting a range of ichnological research databases that are widely applicable to multidisciplinary research fields in geology, biophysics, biology, ecology, geomorphology, and the marine and environmental sciences, it addresses the global concern of rising sea levels to explain growing ecological problems from the mass mortality of coastal organisms and rapid loss of mangrove forest wealth to widespread coastal and riverbank erosion. It also demonstrates the value of applying new ichnological tools to coastal geotechnical planning and programming and to

groundwater exploration Thus the book addresses a broad readership including earth scientists from various disciplines state administrators and members of the general public **Encyclopedia of Geology** ,2020-12-16 Encyclopedia of Geology

Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study *Ichnoentomology* Jorge Fernando Genise,2016-10-31 This book is devoted to the ichnology of insects and associated trace fossils in soils and paleosols The traces described here mostly nests and pupation chambers include one of the most complex architectures produced by animals Chapters explore the walls shapes and fillings of trace fossils followed by their classifications and ichnotaxonomy Detailed descriptions and interpretations for different groups of insects like bees ants termites dung beetles and wasps are also provided Chapters also highlight the the paleoenvironmental significance of insect trace fossils in paleosols for paleontological reconstructions sedimentological interpretation and ichnofabrics analysis Readers will discover how insect trace fossils act as physical evidence for reconstructing the evolution of behavior phylogenies past geographical distributions and to know how insects achieved some of the more complex architectures The book will appeal to researchers and graduate students in ichnology sedimentology paleopedology and entomology and readers interested in insect architecture

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 **Principles of Sequence Stratigraphy** Octavian Catuneanu,2022-07-22 Principles of

Sequence Stratigraphy Second Edition presents principles to practical workflow that guide applications in a consistent manner that is independent of model geological setting and the types and resolution of the data available The book explains the points of agreement and difference between the various approaches to sequence stratigraphy while also defining the common ground that affords the standard application of the method This enables the practitioner to avoid nomenclatural and methodological confusions and apply sequence stratigraphy The text is richly illustrated with hundreds of full color diagrams and examples of outcrop borehole and seismic data The book s balanced approach helps students and professionals acquire a sound understanding of the concepts and methodology It will appeal to geologists geophysicists and engineers with interest in basin analysis stratigraphy and sedimentology as well as in all economic applications that concern the exploration and production of natural resources including water hydrocarbons coal and sediment hosted mineral deposits Updates the award winning first edition in all aspects of sequence stratigraphy from the underlying theory to the practical applications Presents the standard approach to sequence stratigraphic methodology nomenclature and classification the role of modeling in sequence stratigraphy and the difference between modeling and methodology Discusses the roles of scale and stratigraphic resolution in sequence stratigraphy and the workflow that affords a consistent application of the method irrespective of the types of data available Describes the three dimensional nature of the stratigraphic architecture and the variability of stratigraphic sequences with the tectonic setting depositional setting and the climatic regime Illustrates all concepts with high quality full color diagrams outcrop photographs and subsurface well data and seismic images

Advances in Petroleum Source Rock Characterizations: Integrated Methods and Case Studies Haytham El Atfy, Bandar I. Ghassal, 2022-12-05

This book is directed to those who are interested in petroleum geology especially source rock from both academia and industrial societies Our chapter based book is written by a list of world class subject matter experts The book includes recent advancements in analytical source rock characterization methods with some case studies It is also used as part of a course curriculum or guide for source rock interpretation for all researcher categories Significant improvement in the source rock characterization techniques in the last two decades and the knowledge is disseminated in a huge amount of papers and studies The book intends to collect these recent advancements in one textbook to benefit students and researchers in general In addition it is supplemented by many case studies from all over the world that represent important data sets for the regional geology of these areas

Ichnology of the Permian-Triassic Mass Extinction in China

Xueqian Feng, Zhong-Qiang Chen, David J. Bottjer, He Zhao, 2025-07-14 This book provides a detailed examination of ichnology during the Permian Triassic mass extinction in China focusing on the recovery patterns of marine trace making organisms It features a wealth of high quality ichnofossil photographs and figures offering readers a comprehensive guide to ichnotaxa identifications and descriptions from both South and North China spanning the Late Permian to the Middle Triassic The chapters cover critical topics such as the delayed biotic recovery due to the harsh environmental conditions of the Early

Triassic oceans Ichnological data is highlighted as a crucial tool for assessing the recovery process and patterns of marine trace making organisms The book includes ecological and sedimentological data providing insights into the recovery patterns of marine infaunas across various habitats It systematically presents semi quantitative parameters of several ecological proxies proposing different recovery models based on extensive data Written by authorities in the field this book is an invaluable reference for ecological and ichnological researchers It is designed for undergraduates and graduate students in earth sciences as well as researchers and professionals interested in ichnology and marine recovery post extinction This publication is an essential resource for understanding the intricate dynamics of marine ecosystems during one of Earth s most significant biocrises It is a crucial addition to the field offering a unique perspective on the recovery patterns of marine trace making organisms in the aftermath of the end Permian mass extinction

Experimental Approaches to Understanding Fossil Organisms Daniel I. Hembree, Brian F. Platt, Jon J. Smith, 2014-04-29 Paleontologists and geologists struggle with research questions often complicated by the loss or even absence of key paleobiological and paleoenvironmental information Insight into this missing data can be gained through direct exploration of analogous living organisms and modern environments Creative experimental and interdisciplinary treatments of such ancient Earth analogs form the basis of Lessons from the Living This volume unites a diverse range of expert paleontologists neontologists and geologists presenting case studies that cover a spectrum of topics including functional morphology taphonomy environments and organism substrate interactions

Cretaceous Sea Level Rise Mu Ramkumar, 2015-11-05 Cretaceous Sea Level Rise delves into the question of whether the observed short term sea level changes are regional tectonic or global eustatic and determines their possible relation to climate cycles to assess the role of feedback mechanisms i e thermal expansion contraction of seawater subsidence due to loading by water changing vegetation of the Earth System and to investigate the relation of sea level highs and lows to ocean anoxia and oxidation events represented by black shales and oceanic red beds and to evaluate the evidence for ephemeral glacial episodes or other climate events Though research has been and is being conducted in these fields since the introduction of sea level cycles and sequence development concepts in the 1970s the available information is scattered Cretaceous Sea Level Rise presents the current understanding and future directions of the research on Cretaceous sea level cycles in a single source forming a reference work for beginners graduates and postgraduates who are interested in this subject Authored by an expert in Sea Level Rise with over 15 years experience Concludes with a section that looks to the future of sea level change The only source to combine the current understanding and future directions of the research on Cretaceous sea level cycles in one place

Cretaceous Period: Biotic Diversity and Biogeography Ashu Khosla, Spencer G. Lucas, 2016-01-01

Deep Marine Systems Kevin T. Pickering, Richard N. Hiscott, 2015-10-23 Deep water below wave base processes although generally hidden from view shape the sedimentary record of more than 65% of the Earth s surface including large parts of ancient mountain belts This book aims to inform advanced level undergraduate and postgraduate

students and professional Earthscientists with interests in physical oceanography and hydrocarbonexploration and production about many of the important physicalaspects of deep water mainly deep marine systems The authorsconsider transport and deposition in the deep sea trace fossilassemblages and facies stacking patterns as an archive of theunderlying controls on deposit architecture e g seismicity climate change autocyclicity Topics include modern and ancientdeep water sedimentary environments tectonic settings and howbasinal and extra basinal processes generate the typicalcharacteristics of basin slopes submarine canyons contouritemounds and drifts submarine fans basin floors and abyssalplains *Advances in Sequence Stratigraphy*, 2017-10-16 *Advances in Sequence Stratigraphy* Volume Two covers current research across a wide range of stratigraphic disciplines providing information on the most recent developments for the geoscientific research community Chapters in this volume include Sequence Stratigraphy Oman Sequence Stratigraphy and diagenesis Sequence Stratigraphy of Siliciclastic Systems Upper Devonian Biostratigraphy Event Stratigraphy and Late Frasnian Kellwasser Extinction Bio events in the Iowa Basin Western Euramerica Sea level change and Sequence Stratigraphy Sequence Stratigraphy A Material based Approach Versus A Time Based Approach and Anisian Ladinian marker horizon Implications for sequence stratigraphy and intra tethyan correlation This fully commissioned review publication aims to foster and convey progress in stratigraphy including geochronology magnetostratigraphy lithostratigraphy event stratigraphy isotope stratigraphy astrochronology climatostratigraphy seismic stratigraphy biostratigraphy ice core chronology cyclostratigraphy palaeoceanography sequence stratigraphy and more Contains contributions from leading authorities in the field Informs and updates on all the latest developments in the field Aims to foster and convey progress in stratigraphy including geochronology magnetostratigraphy lithostratigraphy event stratigraphy and more *Ichnology of the Lowlands of South America* José Herminio Laza, 2020-12-16 Ichnology is the science of marks tracks trails traces structures and other sources of evidence of biological activity beyond the living beings themselves when studied both in continents and oceans In spite of its scientific value and interdisciplinary contribution particularly in South America in the complex task of identifying ancient environments information is dispersed and sometimes even ignored This book has recovered the remarkably abundant information that Ichnology of terrestrial environments has incorporated The studied geographical regions are the Pampas of Argentina vast lowlands with a wide latitudinal distribution in between the warm and wet subtropical areas and the cold deserts of Patagonia Pedogenetic processes preserve tracks and marks found in sediments rock surfaces and soils revealing the activity of life forms This book refers to a variety of signs of biological activity particularly in ancient soils This volume includes abundant original information and a meticulous revision of paleo ichnological investigations most by the author himself one of the most important South American specialists during many decades of his dedication to scientific research The book includes a review of the stratigraphic sequences of the Cenozoic chronostratigraphic scheme Firstly the author provides a scrutiny of the continental ichnofacies and the ichnological record of the South American Cenozoic age This is

followed by chapters dedicated to the faunal associations of vertebrates with very valuable information about the past climatic events and biogeographical changes of undoubted value for those scholars interested in vertebrate Paleontology Likewise the highly relevant ichnotaxonomy is also developed exhaustively with special reference to the essential activity of insects in the paleosols mostly ants and termites divFinally this book presents the most complete extensive and up dated bibliography in the subject which is probably unique as such for southern South America and most of the world Certainly this is a book that will provide valuable scientific tools for those specialists interested in this infrequent discipline either paleontologists biologists geologists pedologists and sedimentologists

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Introduction

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