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SEDIMENTATION IN SUBMARINE CANYONS, FANS, AND TRENCHES



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and
Gordon H. Ginsburg

SEDIMENTATION IN SUBMARINE CANYONS,
FANS, AND TRENCHES



Sedimentation In Submarine Canyons Fans And Trenches

Daniel J. Stanley



Sedimentation In Submarine Canyons Fans And Trenches:

Sedimentation in Submarine Canyons, Fans, and Trenches Daniel J. Stanley, Gilbert Kelling, 1978 **Submarine Canyon Wall Sedimentation and Lateral Infill** Daniel J. Stanley, 1980 *Deep-water Sedimentation in the Alpine Basin of SE France* Philippe Joseph, Simon A. Lomas, 2004

A September 2001 meeting held in Nice France examined current knowledge on confined turbidite systems in particular the Gr s d Annot Work from the meeting covers aspects such as structural geology sedimentary geology and sequence stratigraphy modeling of sedimentary processes and architectures geochemistry reservoir characterization seismi *Seismic Facies and Sedimentary Processes of Submarine Fans and Turbidite Systems* Paul Weimer, Martin H. Link, 2013-11-11

The Frontiers in Sedimentary Geology series was established for the student the researcher and the applied scientist to enhance their potential to stay abreast of the most recent ideas and developments and to become familiar with certain topics in the field of sedimentary geology This series deals with subjects that are in the forefront of both scientific and economic interests The treatment of a subject in an individual volume therefore should be a combina tion of topical regional and interdisciplinary approaches The interdisciplinary aspects are becoming more and more important because most studies dealing with the natural sciences cannot effectively stand alone Although this thrust may sound simple in reality it is not basi cally because each discipline has developed its own jargon and definitions of terms Communi cation among disciplines is a major issue and can be accomplished more constructively when people with different backgrounds join together at the same symposium and can read from the same volume rather than confining themselves within the world of their own specialty meetings and journals Books in this series provide this connective link between disciplines Each book in this series provides a continuous and connected flow of concepts throughout the volume by the use of introductory chapters that outline a topic to help the reader grasp its problems and to understand the contributions that follow Deep-Water Turbidite Systems Dorrik A. V. Stow, 2009-04-15

This third volume in the IAS Reprint Series reviews some of the major contributions that have been made over the last twenty years to our understanding of deep water environments Few groups of rocks have received as much attention in recent years as deep sea sands and yet retained so many unsolved problems How far and how fast can sediment debris flows travel Do the many ancient series that have been interpreted as submarine fan deposits bear any resemblance to present day deep sea flows How valid are these sequences described as coarsening upward or fining upward and how should they be interpreted This timely review of contributions made to this area of study since 1970 reflects the heightened interest that has surrounded it Deep Water Turbidite Systems contains 22 papers reproduced in full and 22 abstracts of papers that have appeared in the journal Sedimentology concerned with the broad spectrum of topics within the field of turbidites and associated deep water systems If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=RP3> **Submarine Fans and Related Turbidite Systems** Arnold H. Bouma, W.R.

Normark, N.E. Barnes, 2012-12-06 Exchange of information in the field of earth sciences is increasingly needed to stay informed about advances. However, the continuous increase in the number of journal articles and books is very noticeable while the available time to keep up is decreasing. Such a large flow of information commonly necessitates professionals to search selectively for material and special publications in one's sub-discipline that have more specific coverage. In addition to surveying research needs, earth scientists working in a pure or applied research environment collect and produce information that often is of interest to the much larger group of industry-employed geologists and geophysicists to professionals employed by agencies and to students. To accommodate this exchange of needed information, Springer Verlag is launching a monograph series entitled *Frontiers in Sedimentary Geology*. This series will cover a number of subjects related to sediments and sedimentary rocks in a manner that both the researcher and the industrially oriented earth scientist can use constructively. Publications in this monograph series may fit one or more of the following main categories: Topical. A topical subject will cover either the different aspects of a selected environment of deposition or present a world tour of a particular depositional environment to demonstrate its variability and its commonalities. The author(s) or editor(s) accepts the responsibility to guide the reader as to the state of knowledge rather than providing a set of independent chapters.

Deep-Water Processes and Facies Models: Implications for Sandstone Petroleum Reservoirs G.

Shanmugam, 2006-03-31 This rock-based book is an attempt to link deep water process sedimentology with sandstone petroleum reservoirs. In presenting a consistent process interpretation, the author has relied on his description and interpretation of core and outcrop 1/20 to 1/50 scale from 35 case studies which include 32 petroleum reservoirs totaling more than 30,000 feet (9,145 m) carried out during the past 30 years (1974-2004). This book should serve as an important source of information for students on history, methodology, first principles, advanced concepts, controversies, and practical applications on deep water sedimentology and petroleum geology. Discusses the link between deep water process sedimentology and petroleum geology. Addresses criteria for recognizing deposits of gravity-driven, thermohaline-driven, wind-driven, and tide-driven processes in deep water environments. Provides head-on approach to resolve controversial process-related problems. Continental Margin Sedimentation Charles A. Nittrouer, James A. Austin, Michael E. Field, Joseph H.

Kravitz, James P. M. Syvitski, Patricia L. Wiberg, 2009-03-12 This volume on continental margin sedimentation brings together an expert editorial and contributor team to create a state-of-the-art resource. Taking a global perspective, the book spans a range of timescales and content ranging from how oceans transport particles to how thick rock sequences are formed on continental margins. Summarizes and integrates our understanding of sedimentary processes and strata associated with fluvial dispersal systems on continental shelves and slopes. Explores timescales ranging from particle transport at one extreme to deep burial at the other. Insights are presented for margins in general and with focus on a tectonically active margin, northern California, and a passive margin, New Jersey, enabling detailed examination of the intricate relationships.

between a wide suite of sedimentary processes and their preserved stratigraphy Includes observational studies which document the processes and strata found on particular margins in addition to numerical models and laboratory experimentation which provide a quantitative basis for extrapolation in time and space of insights about continental margin sedimentation Provides a research resource for scientists studying modern and ancient margins and an educational text for advanced students in sedimentology and stratigraphy

Tectonic Controls and Signatures in Sedimentary Successions Lynne E. Frostick, 2009-04-13 Stratigraphers and sedimentologists who are presently describing and interpreting the infill of sedimentary basins are generally agreed that it is difficult to disentangle the signatures of tectonic processes from those of climate and eustatic sea level change in the resultant rock succession Until better criteria are developed to distinguish between the roles played by the major variables it is still most useful to document and interpret basin fill architectures where we know from independent evidence that one of the main controls is likely to have been a major contributor This book contains a collection of papers describing situations where the tectonic setting is fairly well established and it can be assumed that at least the tectonic factor has contributed to the resultant signatures

The Seismogenic Zone of Subduction Thrust Faults Timothy H. Dixon, J. Casey Moore, 2007-09-20 Subduction zones one of the three types of plate boundaries return Earth's surface to its deep interior Because subduction zones are gently inclined at shallow depths and depress Earth's temperature gradient they have the largest seismogenic area of any plate boundary Consequently subduction zones generate Earth's largest earthquakes and most destructive tsunamis As tragically demonstrated by the Sumatra earthquake and tsunami of December 2004 these events often impact densely populated coastal areas and cause large numbers of fatalities While scientists have a general understanding of the seismogenic zone many critical details remain obscure This volume attempts to answer such fundamental concerns as why some interplate subduction earthquakes are relatively modest in rupture length greater than 100 km while others such as the great M greater than 9 1960 Chile 1964 Alaska and 2004 Sumatra events rupture along 1000 km or more Contributors also address why certain subduction zones are fully locked accumulating elastic strain at essentially the full plate convergence rate while others appear to be only partially coupled or even freely slipping whether these locking patterns persist through the seismic cycle and what is the role of sediments and fluids on the incoming plate Nineteen papers written by experts in a variety of fields review the most current lab field and theoretical research on the origins and mechanics of subduction zone earthquakes and suggest further areas of exploration They consider the composition of incoming plates laboratory studies concerning sediment evolution during subduction and fault frictional properties seismic and geodetic studies and regional scale deformation The forces behind subduction zone earthquakes are of increasing environmental and societal importance

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