



Two fundamentally different types of submarine canyons along the continental margin of Equatorial Guinea

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ABSTRACT

Most submarine canyons are erosive conduits cut deeply into the world's continental shelves through which sediment is transported from areas of high coastal sediment supply onto large submarine fans. However, many submarine canyons in areas of low sediment supply do not have associated submarine fans and show significantly different morphologies and depositional processes from those of 'classic' canyons. Using three-dimensional seismic reflection and core data, this study contrasts these two types of submarine canyons and proposes a bipartite classification scheme.

The continental margin of Equatorial Guinea, West Africa during the late Cretaceous was dominated by a classic, erosional, sand-rich, submarine canyon system. This system was abandoned during the Paleogene, but the relict topography was re-activated in the Miocene during tectonic uplift. A subsequent decrease in sediment supply resulted in a drastic transformation in canyon morphology and activity, initiating the 'Benito' canyon system. This non-typical canyon system is aggradational rather than erosional, does not indent the shelf edge and has no downslope sediment apron. Smooth, draping seismic reflections indicate that hemipelagic deposition is the chief depositional process aggrading the canyons. Intra-canyon lateral accretion deposits indicate that canyon concavity is maintained by thick (>150 m), dilute, turbidity currents. There is little evidence for erosion, mass-wasting, or sand-rich deposition in the Benito canyon system. When a canyon loses flow access, usually due to piracy, it is abandoned and eventually filled. During canyon abandonment, fluid escape causes the successive formation of 'cross-canyon ridges' and pockmark trains along buried canyon axes.

Based on comparison of canyons in the study area, we recognize two main types of submarine canyons: 'Type I' canyons indent the shelf edge and are linked to areas of high coarse-grained sediment supply, generating erosive canyon morphologies, sand-rich fill, and large downslope submarine fans/aprons. 'Type II' canyons do not indent the shelf edge and exhibit smooth, highly aggradational morphologies, mud-rich fill, and a lack of downslope fans/aprons. Type I canyons are dominated by erosive, sandy turbidity currents and mass-wasting, whereas hemipelagic deposition and dilute, sluggish turbidity currents are the main depositional processes sculpting Type II canyons. This morphology-based classification scheme can be used to help predict depositional processes, grain size distributions, and petroleum prospectivity of any submarine canyon.

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1. Introduction

Submarine canyons, first spotlighted by Shepard (1936), are the primary conduits for the transport of clastic detritus from the continents into the deep sea (Normark and Carlson, 2003) and their sandy fill can form major petroleum reservoirs (Stow and Mayall, 2000). Nearly every continental margin is dissected by submarine

canyons that display a range of morphologies and depositional processes (Shepard, 1981). Many canyons are long-lived features that may persist for tens of millions of years (Shepard, 1981; Weaver et al., 2000; Zhu, 2007; Zhu et al., 2009), and all play key roles in the evolution of continental margins. As a result, submarine canyon origins, morphology, depositional processes, and evolution have been at the focus of many recent sedimentological and seismic geomorphological studies (Peakall et al., 2000; Weaver et al., 2000; Bolat and Long, 2001; Deptuck et al., 2003, 2007; Posamentier and Kolla, 2003; Arzola et al., 2008; Lastras et al., 2009).

Classically-described submarine canyons, here named 'Type I' canyons, have predominantly erosional morphologies and in many

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Two Fundamentally Different Types Of Submarine Canyons

Michael J. Soreghan, George E. Gehrels



Two Fundamentally Different Types Of Submarine Canyons:

Submarine Geomorphology Aaron Micallef, Sebastian Krastel, Alessandra Savini, 2017-07-18 This book on the current state of knowledge of submarine geomorphology aims to achieve the goals of the Submarine Geomorphology working group set up in 2013 by establishing submarine geomorphology as a field of research disseminating its concepts and techniques among earth scientists and professionals and encouraging students to develop their skills and knowledge in this field Editors have invited 30 experts from around the world to contribute chapters to this book which is divided into 4 sections i Introduction history ii Data methods ii Submarine landforms processes and iv Conclusions future directions Each chapter provides a review of a topic establishes the state of the art identifies the key research questions that need to be addressed and delineates a strategy on how to achieve this Submarine geomorphology is a priority for many research institutions government authorities and industries globally The book is useful for undergraduate and graduate students and professionals with limited training in this field *Mediterranean submarine canyons: ecology and governance* Maurizio Wurtz, 2012

Seismic Geology and Basin Analysis Changsong Lin, 2024-06-23 Seismic Geology and Basin Analysis Case Studies on Sedimentary Basins in China introduces the principles approaches and techniques needed to solve problems using seismic data calibrated with well log cores and outcrop profiles The book emphasizes the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research which may be referred to as seismic geology The principle of the book is mainly summarized from a series of case studies in different basins in China In addition through this book readers can understand the primary characteristics and basin fill evolution of major petroleum basins around the world When starting research on a basin researchers and professionals are confronted with how to reveal the general architecture of basin fills and depict three dimensional geometry and the internal architecture of subsurface depositional bodies and their arrangement hence this book is a great tome on necessary areas of exploration Examines the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research Includes seismic well log core and outcrop data as well as high resolution 3D seismic profiles and slices Features case studies to further illustrate principles and approaches described in the book which can be applied to similar basins around the world **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 Seafloor Mapping of the Atlantic Ocean Pål Buhl-Mortensen,Vincent Lecours,Craig John

Brown,2021-09-27 *Geology of North America—An Overview* Albert W. Bally,Allison R. Palmer,1989 Summaries of the major features of the geology of North America and the adjacent oceanic regions are presented in 20 chapters Topics covered include concise reviews of current thinking about Precambrian basement Phanerozoic orogens cratonic basins passive margin geology of the Atlantic and Gulf Coast regions marine and terrestrial geology of the Caribbean region and economic geology **Cordilleran Section of the Geological Society of America** Mason L. Hill,2013-08-01 One of six

volumes generated by each GSA section for the Decade of North American Geology DNAG project this centennial field guide contains descriptions of 100 sites or site clusters representing outstanding geologic locations in Alaska southern Arizona California Hawaii Nevada Oregon Washington and British Columbia Physical Geology Today Damian Nance,Brendan E. Murphy,2016 This text presents a clear and conceptual understanding of how Earth works emphasizing the role of tectonic plates throughout Using clear focused and engaging prose the authors discuss connections between concepts processes and principles in a straightforward manner The text introduces themes using stunning overview graphics at the beginning of each chapter and features hundreds of meticulously developed figures throughout in order to illustrate ongoing processes and changes over time **Abstracts of papers submitted for six meetings with which the Society was associated** ,2018

Growing Up with Science Cavendish Square Publishing LLC,2006 Volume fifteen of a seventeen volume alphabetically arranged encyclopedia contains approximately five hundred articles introducing key aspects of science and technology

Internal Structure in Marine Shelf, Slope, and Abyssal Sediments East of New Zealand H. M. Pantin,1972 *Sound Images of the Ocean* Peter Wille,2005-06-14 Sound Images of the Ocean is the first comprehensive overview of acoustic

imaging applications in the various fields of marine research utilization surveillance and protection The book employs 400 sound images of the sea floor and of processes in the sea volume contributed by more than 120 marine experts from 22 nations

Marine Clastic Sedimentology Jeremy K. Leggett, 2012-12-06 Tarquin Teale a sedimentology stratigraphy postgraduate student at the Royal School of Mines was killed in a road accident south of Rome on 17 October 1985

Premature death is a form of tragedy which can make havoc of the ordered progress which we try to impose on our lives As parents relatives and friends we all know this and yet somehow when it touches our own world there is no consolation to be found anywhere In Tarquin s case the enormity of the loss felt by those of us who knew him can barely be expressed in words Tarquin had everything which we aspire to His fellow graduate students envied his dramatic progress in research We his advisors in appreciating this progress marvelled at how refreshingly rare it was to see such precocious talent combined with such a caring modest and well balanced personality He was destined for the highest honours in geoscience and there is no doubt that he would have lived a life had he been granted the chance which would have spread colour intellectual insight and goodness

Deep Water Canyons, Fans, and Facies Roderick W. Tillman, Syed A. Ali, 1982 New Zealand Oceanographic Institute Memoir, 1972 *Paleozoic and Triassic Paleogeography and Tectonics of Western Nevada and Northern California* Michael J. Soreghan, George E. Gehrels, 2000-01-01 *Submarine Canyon and Slope Sedimentation (grès D'Annot) in the French Maritime Alps* Daniel J. Stanley, 1975 *Zooplankton and Hydrology of Hauraki Gulf, New Zealand* John Blackburn Jillett, 1971 *Invitation to Oceanography* Paul R. Pinet, 2014-10

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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 combination 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 basic because each discipline has developed its own jargon and definitions. Communication 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.

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