

# GEODYNAMIC EVOLUTION OF A RED-SEA TYPE RIFT

(Stampfli & Marchant 1997)

Synrift volcanism



$T_0$  = Transpressive phase

Initial break-away

Plateau basalts



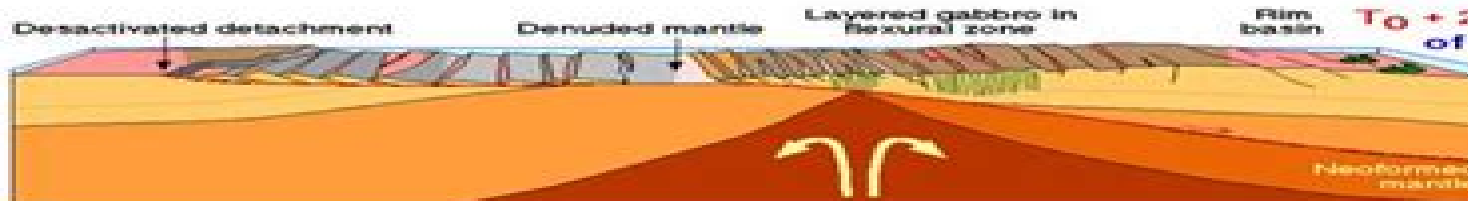
$T_0 + 10 \text{ Ma}$  = Lithospheric break-up dominated by simple shear

Lower plate shoulder

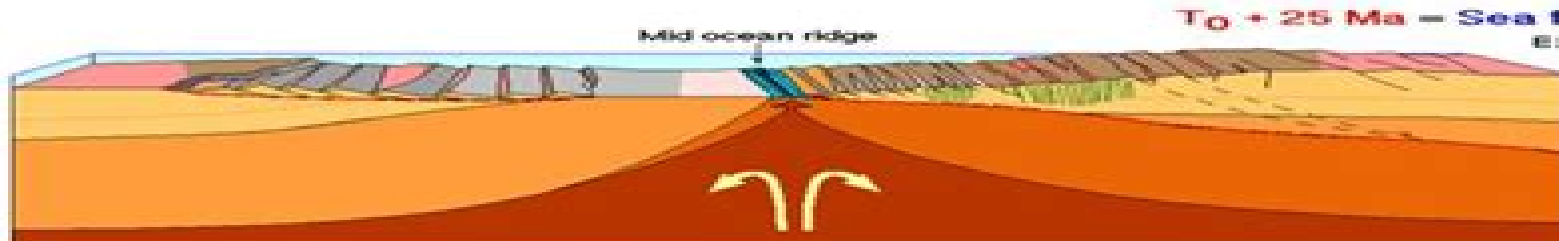
Final break-away

Upper plate shoulder

$T_0 + 15 \text{ Ma}$  = Asthenospheric diapir and thermal uplift, dominated by pure shear



$T_0 + 20 \text{ Ma}$  = denudation of continental mantle



$T_0 + 25 \text{ Ma}$  = Sea floor spreading

Extension may carry on within the upper plate



$T_0 + 40 \text{ Ma}$  = Young passive margin

Flexural margin

# Geologic Evolution Of The Red Sea

**Henry W. Roehler, K. Y. Lee**



## Geologic Evolution Of The Red Sea:

**Geologic Evolution of the Red Sea** Robert Griffin Coleman, 1993 The Red Sea is an important geologic phenomenon because it affords researchers the unique opportunity to witness an ocean in the process of being born The continental crust has broken along a complex jumble of faults and is slowly spreading apart and with further rifting this infant ocean will evolve into a younger version of the Atlantic The author of this work has studied extensively the patterns produced by processes taking place in the Red Sea basin and on the adjacent continental masses patterns that can be used to interpret older larger and more complex geologic features His book describes the tectonics structure volcanic history geomorphology and economic aspects potential for petroleum and heavy metals of the area This book will be of interest to students and researchers of geology paleontology and oceanography *Geological Setting, Palaeoenvironment and Archaeology of the Red Sea* Najeeb M.A. Rasul, Ian C.F. Stewart, 2018-12-05 This book gathers invited contributions from active researchers to provide an up to date overview of the geological setting of the Red Sea It discusses aspects ranging from historical information to modern research in the Red Sea and presents findings from rapidly advancing emerging fields This semi enclosed young ocean basin provides a unique opportunity to study the development of passive continental margins in order to examine the current status of that region In addition to studies on the Sea itself it includes those from related fields on the littoral zone The book is of interest to geoscientists and non specialists alike The Red Sea Najeeb M.A. Rasul, Ian C.F. Stewart, 2015-04-02 This book presents a broad overview of the current state of knowledge regarding the Red Sea from its geological formation and oceanographic development to the environmental influences on its ecology and the changes it is experiencing due to the rapid development of its coastlines and role as one of the world s major transport routes The book gathers invited contributions from researchers with an interest in the geology geophysics oceanography and environment of the Red Sea while also providing comprehensive new data and a complete review of the literature It will be of interest not only to researchers actively studying the sea and its surroundings but will also appeal to all those involved in planning and managing the Red Sea its environment its resources and the countries which rely on its existence *Geological Evolution of Qatar and the Arabian Peninsula* Fadhil N. Sadooni, Hamad Al-Saad Al-Kuwari, 2025-09-26 This is the first book on the geology of Qatar with a special focus on its petroleum and gas potential which is studied within the context of the Arabian Plate tectonic configuration The book consists of nine chapters that introduce the history of Qatar s geologic surveys the country s surface geology and its main outcrops and physiographic subdivision the tectonic history and structural elements of the Arabian Plate and Qatar The remaining six chapters cover the stratigraphic and sedimentological history of the subsurface sediments of Qatar from the Infra Cambrian to the recent regional correlation with the neighbouring countries *Regional Geology and Tectonics* Domenico Chiarella, Nicola Scarselli, Jürgen Adam, 2024-04-16 Regional Geology and Tectonics Volume 2 Phanerozoic Rift Systems and Sedimentary Basins Second Edition is the second volume in a three volume

series covering Phanerozoic regional geology and tectonics Experience in analyzing and assessing rifts locations where the Earth's outer shell and crust have been stretched over time by seismic activity is critical for exploration geologists in identifying Earth's most lucrative hydrocarbon locations in which extraction is both efficient and safe Vast compilations of related industry data present regional seismic lines and cross sections and summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings The new edition of Regional Geology and Tectonics Volume 2 Phanerozoic Rift Systems and Sedimentary Basins features updated summaries of analogue and theoretical models New to this edition are chapters on deepwater foldbelts and lithospheric extension as well as new case studies on volcanic and passive margin basins Provides a practical reference for petroleum geologists that discusses the importance of rift systems and the structural evolution of the Earth Includes analyses of active rifts in East Africa China Siberia the Gulf of Suez and the Russian Arctic that provide immediately implementable petroleum exploration applications in regions heavily targeted by oil gas companies Presents overviews of sequence stratigraphy in rifts and structural controls on clastic and carbonate sedimentation that are critical to the exact mapping of the most lucrative hydrocarbon locations by exploration geologists

*Regional Geology and Tectonics* David G. Roberts, A.W. Bally, 2012-12-31

Volume 1A Principles of Geologic Analysis A how to primer describes the basic concepts petroleum geologists and students need to understand hydrocarbon exploration in a broad range of geological settings globally Volume 1B Phanerozoic Rift Systems and Sedimentary Basins Incorporates industry data to present regional seismic lines and cross sections to accurately document and analyze proven hydrocarbon systems It also includes summaries of analogue and theoretical models as an essential backdrop to the structure and stratigraphy of a variety of geological settings Volume 1C Phanerozoic Passive Margins Cratonic Basins and Global Tectonic Maps Focuses on both volcanic and non volcanic passive margins as well as cratonic basins critical habitats for hydrocarbons It provides a unique basis for comparison of different passive margins and for an understanding of their structural and stratigraphic evolution as well as their petroleum systems especially useful to explorationists working in deep water basins and researchers examining the tectonic evolution of the continent ocean transition A vast amount of data to enable hydrocarbon play assessments and analysis on passive margins is also included in this thorough yet accessible reference Individual volumes can also be purchased

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and their tectonic settings A companion website offers select downloadable images from the books <http://booksite.elsevier.com/9780444530424/index.php>

**Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps** David G. Roberts, 2012-05-29 Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics Phanerozoic Passive Margins Cratonic Basins and Global Tectonic Maps volume three in a three volume series covering Phanerozoic regional geology and tectonics Its key focus is on both volcanic and non volcanic passive margins and the importance of salt and shale driven by sedimentary tectonics to their evolution Recent innovative research on such critical locations as Iberia Newfoundland China and the North Sea are incorporated to provide practical real world case studies in regional geology and tectonics The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference Named a 2013 Outstanding Academic Title by the American Library Association s Choice publication A how to practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications Incorporates the increased availability of industry data to present regional seismic lines and cross sections leading to more accurate analysis and assessment of targeted hydrocarbon systems Analyses of passive margins and cratonic basins in East Africa China Siberia the Gulf of Suez and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings

**Regional Geology and Tectonics: Phanerozoic Rift Systems and Sedimentary Basins** David G. Roberts, A.W. Bally, 2012-04-27 This volume discusses the importance of rift systems and the structural evolution of the Earth It analyses active rifts in East Africa China and Siberia and presents overviews of sequence stratigraphy in rifts and structural controls on clastic and carbonate sedimentation

**The Geology of Egypt** Zakaria Hamimi, Ahmed El-Barkooky, Jesús Martínez Frías, Harald Fritz, Yasser Abd El-Rahman, 2019-09-19 This richly illustrated book offers a concise overview of the geology of Egypt in the context of the geology of the Arab Region and Northeast Africa An introductory chapter on history of geological research in Egypt sheds much light on the stages before and after the establishment of Egyptian Geological Survey the second oldest geological survey worldwide Hume s book and Said s 1962 1990 books The book starts with the Precambrian geology of Egypt in terms of lithostratigraphy and classifications structural and tectonic framework crustal evolution and metamorphic belts A dedicated chapter discusses the Paleozoic Mesozoic Cenozoic tectonics and structural evolution of Egypt A chapter highlights the Red Sea tectonics and the Gulf of Suez and Gulf of Aqaba Rifts Subsequent chapters address the Phanerozoic geology from Paleozoic to Quaternary The Egyptian Impact Crater s and Meteorites are dealt with in a separate chapter The Earth resources in Egypt including metallic and non metallic ore deposits hydrocarbon and water resources are given much more attention throughout four chapters The last chapter addresses the seismicity seismotectonics and neotectonics of Egypt

The Geological Evolution of the River Nile Rushdi Said, 2012-12-06 This book gives the geological history of the river Nile since it started to excavate its course in the Egyptian plateaus in late Miocene time in response to the lowering sea level of the desiccating Mediterranean. It formed a canyon longer, deeper and just as awe inspiring as the Grand Canyon, Arizona. The canyon was transgressed by the advancing Mediterranean as it started filling during the early Pliocene and since then by a number of rivers which ebbed and flowed as they succeeded one another. The modern Nile is a recent and humble successor to mighty rivers which once occupied the Nile Valley. Dallas, Texas. Rushdi Said, August 1981. Acknowledgments: This book is based on field work carried out in Egypt during the seasons 1961-1978 while the author was a member of the Combined Prehistoric Expedition sponsored by Southern Methodist University, the Polish Academy of Science and the Geological Survey of Egypt. Grateful acknowledgment is made to Professor Fred Wendorf, leader of the Expedition and to several members for their fruitful discussions. Notable among these are: Claude Albritton, Southern Methodist University and Dr. J. De Heinzelin, University of Ghent, Belgium. The field work was aided by geologists M. S. Abdel Ghany and A. Zaghloul of the Geological Survey of Egypt. The drafting was by Reed Ellis and Hoda Samani. I am also grateful to Dr. M. K. *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps* A.W. Bally, 2012-05-31. Expert petroleum geologists David Roberts and Albert Bally bring you *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, volume three in a three volume series covering Phanerozoic regional geology and tectonics. Its key focus is on both volcanic and non-volcanic passive margins and the importance of salt and shale driven by sedimentary tectonics to their evolution. Recent innovative research on such critical locations as Iberia, Newfoundland, China and the North Sea are incorporated to provide practical, real world case studies in regional geology and tectonics. The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication. A how-to practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications. Incorporates the increased availability of industry data to present regional seismic lines and cross sections leading to more accurate analysis and assessment of targeted hydrocarbon systems. Analyses of passive margins and cratonic basins in East Africa, China, Siberia, the Gulf of Suez and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications. Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings. **The Geology of the Arab World---An Overview** Abderrahmane Bendaoud, Zakaria Hamimi, Mohamed Hamoudi, Safouane Djemai, Basem Zoheir, 2018-09-21. This book is the result of the work of the first international congress of the ArabGU Arabian Geosciences Union which took place in Algiers, Algeria in February 2016. It presents research articles and review papers on geology of the North Africa and Arabian Middle

East It provides information to the public on various fields of earth sciences and encourages further research in this field in order to attract an international audience

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**The Geology of the Arabian-Nubian Shield** Zakaria Hamimi, Abdel-Rahman Fowler, Jean-Paul Liégeois, Alan Collins, Mohamed G. Abdelsalam, Mohamed Abd El-Wahed, 2021-07-30 This richly illustrated book reviews the geology tectonics and mineralization of the Arabian Nubian Shield ANS in 27 chapters It starts with an examination of the ANS lithospheric scale features explores Mesoproterozoic units and deals with the ANS oceanic stage Arc volcanism and plutonism post collision basins and volcanics are discussed as well as the younger granitoid magmatism and the deformation history of the ANS The book provides information on ANS glacial stages and late magmatism Chapters are devoted to review the transition between ANS and the reworked continent to its south Finally it discusses how ANS structures influenced the overall East African Rift System

*Continental Rift Formation and its Prehistory* A.V. Razvalyaev, 2021-02-25 Translation of the Russian edition of 1988 on peculiarities of the Arabian Nubian Shield in the Precambrian prerift magmatism in the Red Sea Rift zone evolution of the crust in rift forming zones

The geology of Egypt Farouk El-Baz, 2023-12-11 U.S. Geological Survey Bulletin Henry W. Roehler, K. Y. Lee, 1989

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