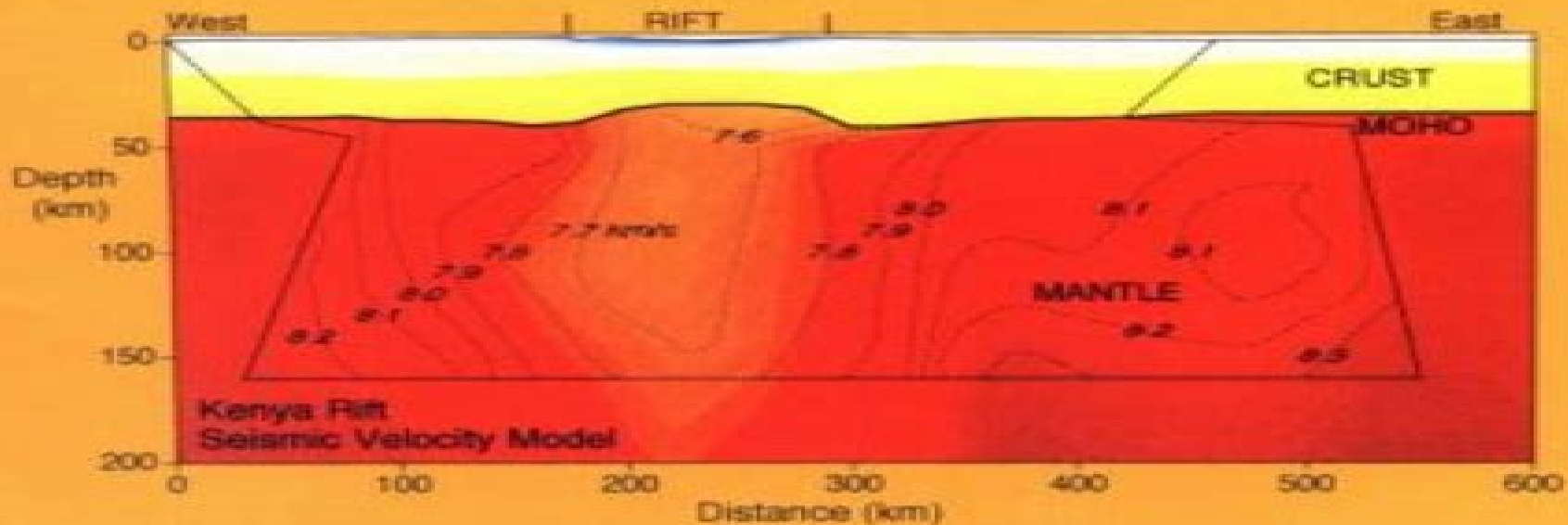


K.H. OLSEN
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PUBLICATION NO. 264 OF THE INTERNATIONAL LITHOSPHERE PROGRAM

CONTINENTAL RIFTS: EVOLUTION, STRUCTURE, TECTONICS



DEVELOPMENTS IN GEOTECTONICS 25

Continental Rifts Evolution Structure Tectonics

Anthony B Watts



Continental Rifts Evolution Structure Tectonics:

Continental Rifts: Evolution, Structure, Tectonics K.H. Olsen, 1995-11-24 This multi author book has been prepared by an international group of geoscientists that have been active in rift research since the late 1960s In 1984 an informal grass roots study group was initiated to compare individual research results and to explore in greater depth the apparent differences and similarities in the interpretations from various rift systems The group became known as the CREST working group an acronym of Continental Rifts Evolution Structure and Tectonics which not surprisingly became the title of this book Continental Rifts Evolution Structure Tectonics presents an overview of the present state of understanding and knowledge of the processes of continental rifting from a multidisciplinary lithospheric scale perspective The chapters have been structured on each rift system in approximately the same synoptic sequence so as to facilitate comparisons of rifts by the reader The book complements its predecessors by presenting a more unified picture It succeeds in presenting the status of a representative majority of the continental rift systems that have been at the forefront of recent research For students and experienced researchers alike this book will be of significant value in assessing the current state of knowledge and in serving as a framework for future research

Tectonic Inheritance in Continental Rifts and Passive Margins Achyuta Ayan Misra, Soumyajit Mukherjee, 2015-06-25 This work reviews the mechanism of rifting with a focus on pre existing tectonic weaknesses in pre rift and or basement rocks i e on tectonic inheritance The passive margins that are studied in this book are the Norwegian Continental Shelf the Eastern North America and the East and West Indian Continental Margins The continental rifts that have been analysed are the East African Rift System the Brazilian Continental Rift Systems and the European Cenozoic Rift System It states how rifts and passive margins serve as valuable locations for hydrocarbon exploration Tectonic inheritance heritage examines the influence of pre existing pre rift elements on the geometry genesis and propagation of rift related faults Such elements include anisotropies in the shallow crustal levels as well as the rheology of the lithosphere Inheritance greatly influences the architecture of rifted passive margins including the attitude of faults and geometry of horsts half grabens transfer zones etc Inheritance is also a determining factor in the width of rifts and rift shoulder topography

Regional Geology and Tectonics: Phanerozoic Rift Systems and Sedimentary Basins David G. Roberts, 2012-04-23 Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics Phanerozoic Rift Systems and Sedimentary Basins volume two 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 you as an exploration geologist 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 Named a 2013 Outstanding Academic Title by the

American Library Association's Choice publication A practical reference for petroleum geologists that discusses the importance of rift systems and the structural evolution of the Earth Analyses of active rifts in East Africa China Siberia the Gulf of Suez and the Russian Arctic 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 critical to the exact mapping of the most lucrative hydrocarbon locations by exploration geologists

Magmatic Rifting and Active Volcanism T.J. Wright,A. Ayele,D.J. Ferguson,T. Kidane,C. Vye-Brown,2016-09-06 A major rifting episode began in the Afar region of northern Ethiopia in September 2005 Over a ten day period c 2 5 km³ of magma were intruded along a 60 km long dyke separating the Arabian and Nubian plates Over the next five years a further 13 dyke intrusions caused continued extension eruptions and seismicity This activity led to a renewed international focus on the role of magmatism in rifting with major international collaborative projects working in Afar and Ethiopia to study the ongoing activity and to place it in a broader context This book brings together articles that explore the role of magmatism in rifting from the initiation of continental break up through to full seafloor spreading We also explore the hazards related to rifting and the associated volcanism This work has implications for our understanding of how continents break up and the associated distribution of resources in rift basins and continental margins

Regional Geology and Tectonics David G. Roberts,A.W. Bally,2012-12-31 Volume 1A Principles of Geologic AnalysisA 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 BasinsIncorporates 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 MapsFocuses 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 978044453042497804445635699780444563576 Volume 1A discusses in detail the principles of regional geological analysis and the main geological and geophysical tools used in basin analysis Volume 1B features simple documentation and analysis of major rift systems developed in contrasting geological settings as well as in depth analyses of active rifts in various regions all over the world for immediately implementable petroleum exploration applications Volume 1C features real world case studies and analyses useful summaries of analogue and theoretical models thorough

documentation of numerous passive margins that are the focus of deep water oil exploration and unique tectonic maps facilitating access to exact basin locations and their tectonic settings A companion website offers select downloadable images from the books <http://booksite.elsevier.com/9780444530424/index.php> The Seismic Cycle Frederique

Rolandone, 2022-09-16 The study of the seismic cycle has many applications from the study of faulting to the estimation of seismic hazards It must be considered at different timescales from that of an earthquake the co seismic phase a few seconds the post seismic phase from months to dozens of years and the inter seismic phase from dozens to hundreds of years up to cumulative deformations due to several seismic cycles from a few thousand to hundreds of thousands of years The Seismic Cycle uses many different tools to approach its subject matter from short term geodesic such as GPS and InSAR and seismological observations to long term tectonic geomorphological morphotectonic observations including those related to paleoseismology Various modeling tools such as analog experiences experimental approaches and mechanical modeling are also examined Different tectonic contexts are considered when engaging with the seismic cycle from continental strike slip faults to subduction zones such as the Chilean Mexican and Ecuadorian zones The interactions between the seismic cycle and magmatism in rifts and interactions with erosion in mountain chains are also discussed Advances in African Earth Sciences Islam Fadel, Folarin Kolawole, Mohamed Sobh, D. Sarah Stamps, Tolulope Morayo Olugboji, Musa Manzi, 2022-11-11

Extensional Tectonics Ibrahim Çemen, Elizabeth J. Catlos, 2025-05-06 Extensional Tectonics Rifting and Continental Extension The extension of Earth's lithosphere occurs at divergent plate boundaries as well as in plate interiors The geological geochemical and sedimentary processes of extension offer insights into topics ranging from the fundamentals of tectonics to the evolution of life Extensional Tectonics Rifting and Continental Extension reviews present day knowledge of extensional tectonic processes and explores examples from around the world Volume highlights include Overview of extensional tectonic processes from continental rifting to oceanic basin formation In depth examination of extension along rift systems and rift margins Review of post collisional continental extension Examples from Africa Asia Europe and the Americas Insights from observations modeling and 3D seismic data interpretation of extended terrains This book is one of a set of three in the collection Tectonic Processes A Global View The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals **New Publications of the U.S. Geological Survey**, 1997 **New Publications**

of the Geological Survey Geological Survey (U.S.), 1997 Ore Deposits and Mantle Plumes Franco Pirajno, 2013-11-11 PERTH Western Australia March 2000 Increasingly explorationists are seeking to find new ore deposits in poorly prospected areas be they geographically remote such as in the Arctic or geologically remote such as those under sedimentary cover Modern prospecting techniques including low detection level geochemistry and the use of advanced geophysical instrumentation have greatly assisted explorers but fundamental to any soundly based exploration program remains an

understanding of the geological framework of ore deposits This allows the development of deposit models on macroscopic and mesoscopic scales This book by Dr Franeo Pirajno draws on his extensive and wide global experience To set the scene for a discussion of ore deposit generation Franeo details the Earth's internal structures and mantle dynamics He then explores the impact of mantle plumes on the crust and in particular their role in the production of magmatic environments and in continental scale rifting This includes a descriptive section on magmatic provinces around the globe which highlights the importance of plumes Any study of Earth processes needs to take into account the effects of extraterrestrial bombardment and in particular the results from the impacts of large bolides The effects of these impacts on the atmosphere and on life have now been recognised as profound It is likely that the effect of these impacts on the Earth's crust is as equally profound

New Perspectives on Rio Grande Rift Basins: From Tectonics to Groundwater Mark R. Hudson, V. J. S.

Grauch, 2013-01-01 Extending from Colorado USA on the north to the state of Chihuahua Mexico on the south the Rio Grande rift divides the Colorado Plateau on the west from the interior of the North American craton on the east This volume focuses on the Rio Grande rift's upper crustal basins and is organized geographically with study areas progressing from north to south Nineteen chapters cover a variety of topics including sedimentation history rift basin geometries and the influence of older structure on rift basin evolution faulting and strain transfer within and among basins relations of magmatism to rift tectonism and basin hydrogeology Provided by publisher **Earth as an Evolving Planetary System** Kent C.

Condie, 2011-08-22 Earth as an Evolving Planetary System Second Edition explores key topics and questions relating to the evolution of the Earth's crust and mantle over the last four billion years This updated edition features exciting new information on Earth and planetary evolution and examines how all subsystems in our planet crust mantle core atmosphere oceans and life have worked together and changed over time It synthesizes data from the fields of oceanography geophysics planetology and geochemistry to address Earth's evolution This volume consists of 10 chapters including two new ones that deal with the Supercontinent Cycle and on Great Events in Earth history There are also new and updated sections on Earth's thermal history planetary volcanism planetary crusts the onset of plate tectonics changing composition of the oceans and atmosphere and paleoclimatic regimes In addition the book now includes new tomographic data tracking plume tails into the deep mantle This book is intended for advanced undergraduate and graduate students in Earth Atmospheric and Planetary Sciences with a basic knowledge of geology biology chemistry and physics It also may serve as a reference tool for structural geologists and professionals in related disciplines who want to look at the Earth in a broader perspective Kent Condie's corresponding interactive CD Plate Tectonics and How the Earth Works can be purchased from Tasa Graphic Arts here <http://www.tasagraphicarts.com/progptearth.html> Two new chapters on the Supercontinent Cycle and on Great Events in Earth history New and updated sections on Earth's thermal history planetary volcanism planetary crusts the onset of plate tectonics changing composition of the oceans and atmosphere and paleoclimatic regimes Also new in this Second Edition the

lower mantle and the role of the post perovskite transition the role of water in the mantle new tomographic data tracking plume tails into the deep mantle Euxinia in Proterozoic oceans The Hadean A crustal age gap at 2.4 Ga and continental growth

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

Treatise on Geophysics, Volume 6 Anthony B Watts, 2010-05-13 Treatise on Geophysics Crust and Lithosphere Dynamics Volume 6 provides a comprehensive review of the state of knowledge on crust and lithosphere dynamics which is defined as the study of how the outermost layers of the Earth respond to loads that are emplaced on within and below it and its implications for plate mechanics and mantle flow The book begins with a chapter on plate kinematics which shows how new observations and methodologies have improved the resolution of relative and absolute plate motions This is followed by studies of plate mechanics focusing on the long term rheology of the plates and response of the plates to both relatively short term and long term loads The book also includes chapters that examine the evidence from surface heat flow borehole breakouts and magma models for the thermal and mechanical structure of the lithosphere the deformation of the lithosphere in extensional and compressional settings The final two chapters deal with the structural styles of faulting in the shallow brittle part of the lithosphere the brittle ductile transition and the shear zone in the ductile part of the lithosphere and how developments in plate mechanics have impacted our understanding of geological processes Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert

Basins of the Rio Grande Rift: Structure, Stratigraphy, and Tectonic Setting G. Randy Keller, Steven M. Cather, 1994-01-01

Seismic Wave Propagation and Scattering in the Heterogeneous Earth Haruo Sato, Michael C. Fehler, 2008-12-17 Seismic waves generated both by natural earthquakes and by man made sources have produced an enormous amount of information about the Earth's interior In classical seismology the Earth is modeled as a sequence of uniform horizontal layers or spherical shells having different elastic properties and one determines these properties from travel times and dispersion of seismic waves The Earth however is not made of horizontally uniform layers and classic seismic methods can take large scale inhomogeneities into account Smaller scale irregularities on the other hand require other methods Observations of continuous wave trains that follow classic direct

S waves known as coda waves have shown that there are heterogeneities of random size scattered randomly throughout the layers of the classic seismic model This book focuses on recent developments in the area of seismic wave propagation and scattering through the randomly heterogeneous structure of the Earth with emphasis on the lithosphere The presentation combines information from many sources to present a coherent introduction to the theory of scattering in acoustic and elastic materials and includes analyses of observations using the theoretical methods developed *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 *Landscapes and Landforms of Belgium and Luxembourg* Alain Demoulin, 2017-08-25 This book provides an

informative and intriguing overview of the most scenic landscapes of Belgium and Luxembourg Geodiversity is emphasized for example the periglacial features in the Hautes Fagnes area the planation surfaces in the Ardennes and Oesling and the famous caves of Han Lesse and Remouchamps The book's chief goals are to provide the reader with enjoyable and informative descriptions of the selected sites within their regional geographical and geological settings to offer an up to date survey of the evolution of Belgium's and Luxembourg's landscape and to share additional information on the cultural value of the respective sites wherever appropriate The book is a richly illustrated reference work that makes accessible for the first time a wealth of information currently scattered among many national and regional journals It will benefit earth scientists environmental scientists tourism geographers and conservationists alike **Lithosphere** Irina Mikhailovna

Artem'eva, 2011-07-28 Multidisciplinary overview of lithospheric structure and evolution based on a full set of geophysical methods for researchers and advanced students

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