

# Neoproterozoic Tectonics Of The Arabiannubian Shield

H.R. Rollinson, M.P. Searle, I.A. Abbasi, A. Al-Lazki, M.H. Al-Kindi

#### **Neoproterozoic Tectonics Of The Arabiannubian Shield:**

Neoproterozoic Tectonics of the Arabian-Nubian Shield Bernard Benjamin Blasband, 2006 The Geology of the Arabian-Nubian Shield Zakaria Hamimi, Abdel-Rahman Fowler, Jean-Paul Liégeois, Alan Collins, Mohamed G. Abdelsalam, Mohamed Abd EI-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 Mineral Deposits and Occurrences in the Arabian-Nubian Shield Ahmed Hassan Ahmed, 2022-03-18 This book presents a detailed review of the mineral deposits and occurrences in the Arabian Nubian Shield ANS including their distribution mineralization styles economic importance and geological controls on the mineralization The purpose of the book is to compile the results of past and recent investigations on mineral deposits and occurrences in the ANS that covering the countries of Saudi Arabia Yemen Egypt Sudan Eritrea and Ethiopia In this regard it discusses in detail the various genetic mineralization styles in the ANS including 1 magmatic mineral deposits associated with mafic ultramafic rocks e g chromite Ni Cu Co PGE magmatic sulfides Fe Ti V oxides 2 intrusion related magmatic hydrothermal deposits associated with felsic to intermediate rocks porphyry epithermal Au Ag sulfide vein type family skarn granite related pegmatite REE deposits 3 hydrothermal orogenic gold and volcanogenic massive sulfide VMS deposits as well as 4 surficial mineral deposits chemical sedimentary residual mechanical and supergene enrichment deposits Geology, Tectonics and Natural Resources of Arabia and its Surroundings A. Scharf, M. Al-Kindi, A. Racey, 2025-09-14 The Arabian Plate displays a well preserved almost continuous geological record of the last one billion years of Earth's history and consequently provides a natural laboratory for the study of a wide variety of geological processes The region is also endowed with major hydrocarbon and mineral resources of global importance An understanding of the geology and tectonics across the region is essential for the future exploration and production of these resources and for investigating the geological options for carbon capture and storage in the region which has a significant role to play in the energy transition This volume provides significant new data on the geology tectonics and natural resources of the Arabian Plate and its surroundings A diverse range of papers is presented offering new data ideas and review articles on the geology and tectonics of Arabia and adjacent areas covering the Neoproterozoic to present day The Geology of the Egyptian Nubian Shield Zakaria Hamimi, Shoji Arai, Abdel-Rahman Fowler, Mohammed Z. El-Bialy, 2020-09-29 This richly illustrated book provides an overview of the Neoproterozoic Pan African Belt of Egypt PABE which represents the northwestern continuation of the Arabian Nubian Shield ANS and the East

African Orogen EAO The first chapter offers an introduction to the Turin Papyrus Map and the historical background of the PABE while the second addresses how the PABE is related to the ANS and EAO Rock succession of the PABE is dealt with in Chapter 3 while Chapter 4 focuses on Sinai Metamorphic Core Complexes and implications on the break up of Rodinia Subsequent chapters discuss a broad range of topics e g ophiolite dominated suprastructural rocks volcanosedimentary succession Neoproterozoic volcanism and volcanic rocks in Egypt enigmatic issues concerning granite Dokhan and Hammamat sediments the lithospheric mantle beneath the Northeast African continent and the mantle section of Neoproterozoic ophiolites from the PABE sutures megashears and petrogenetic evolution of the Neoproterozoic rocks of Egypt and metallic and non metallic mineral deposits in the PABE which are covered in extensive detail The book s closing chapters discuss the application of remote sensing techniques and anisotropy of magnetic susceptibility AMS to decipher the tectonic evolution of the PABE as well as the use of geophysical data to map structural features and hydrothermal alteration zones in the PABE 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 Agaba 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

Tectonic Evolution of the Oman Mountains H.R. Rollinson, M.P. Searle, I.A. Abbasi, A. Al-Lazki, M.H. Al-Kindi, 2014-04-07 The Oman Mountains contain one of the world's best exposed and best understood fold thrust belts and the largest best exposed and most intensively studied ophiolite complex on Earth This volume presents new international research from authors currently active in the field focusing on the geology of the Oman Mountains the foreland region the carbonate platforms of Northern and Central Oman and the underlying basement complex In addition there is a particular focus on geoconservation in the region The volume is divided into three main sections that discuss the tectonics of the Arabian plate using insights from geophysics petrology structural geology geochronology and palaeontology the petrology and geochemistry of the Oman Ophiolite and the sedimentary and hydrocarbon systems of Oman drawing on the geophysics structure and sedimentology of these systems The volume is enhanced by numerous colour images provided courtesy of

Petroleum Development Oman Gold Deposits in Egypt Zakaria Hamimi, Richard J. Goldfarb, Biswajeet Pradhan, Yasser Abd El-Rahman, Abdel-Rahman Fowler, Amr Abdelnasser, Mohamed Abd El Monsef, 2025-08-13 This book aims at young generations of geoscientists researches and other professional specialists. The book is composed of a number of chapters addressing gold deposits in terms of their types genesis settings and spatiotemporal distribution Chapter 1 examines the tectonics and regional geology of the Egyptian Nubian Shield within the frame of the Arabian Nubian Shield and the East African Orogen Chapter 2 highlights gold deposit types and settings Chapter 3 addresses the African Gold that is connecting north and south Chapters 4 and 5 are dealing with ancient gold mining in Egypt and geographical analysis of the ancient Egyptian Turin Papyrus Map 1150 B C Chapter 6 reviews gold mineralization in the Egyptian segment of the northern continuation of the East African Orogen Gold in volcanogenic massive sulfide deposits and orogenic gold deposits are presented in Chapters 7 and 8 The geologic setting and genesis of gold mineralization at the extreme SW and S Egyptian Eastern Desert are treated in Chapters 9 and 10 Chapters 11 12 16 and 17 demonstrate how to detect gold bearing alteration zones in Egypt using remote sensing techniques as well as how to recognize and map gold bearing zones Multi stage hydrothermal processes at gold deposits placer gold deposits and gold deposits in Nasser High Dam Reservoir are given in Chapters 13 14 and 15 Chapter 18 discusses the application of artificial intelligence in gold exploration The Sukari Gold Deposit is dealt with in Chapter 19 Chapters 20 and 21 examine geochemical exploration and mineralogical characteristics of gold deposits and some gold mine tailings and their potential hazards Chapter 22 is exploring the dream of wealth in the Egyptian Eastern Desert The last chapters explore the role of microorganisms in the rehabilitation of ancient gold mines Egyptian gold ore processing and extraction and opportunities and challenges for gold investment in Egypt Deposits of North Africa Mohammed Bouabdellah, John F. Slack, 2016-06-21 This volume presents an exhaustive overview of major orebodies and mineral deposits of North Africa It is intended both for academic researchers and especially for exploration geologists interested in mineral exploration in the northern part of the African continent Recent changes in the mining laws of most countries in this region have encouraged international mining companies to invest in local mineral industries Accordingly this volume will be very useful for these professionals as well as for researchers in the field of economic geology Fifty Years of the Wilson Cycle Concept in Plate Tectonics R.W. Wilson, G.A. Houseman, K.J.W. McCaffrey, A.G. Doré, S.J.H. Buiter, 2019-11-11 Fifty years ago Tuzo Wilson published his paper asking Did the Atlantic close and then re open This led to the Wilson Cycle concept in which the repeated opening and closing of ocean basins along old orogenic belts is a key process in the assembly and breakup of supercontinents The Wilson Cycle underlies much of what we know about the geological evolution of the Earth and its lithosphere and will no doubt continue to be developed as we gain more understanding of the physical processes that control mantle convection plate tectonics and as more data become available from currently less accessible regions This volume includes both thematic and review papers covering various

aspects of the Wilson Cycle concept Thematic sections include 1 the Classic Wilson v Supercontinent Cycles 2 Mantle Dynamics in the Wilson Cycle 3 Tectonic Inheritance in the Lithosphere 4 Revisiting Tuzo s guestion on the Atlantic 5 Opening and Closing of Oceans and 6 Cratonic Basins and their place in the Wilson Cycle 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 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 Phanerozoic Geology and Natural Resources of Egypt Zakaria Hamimi, Hassan Khozyem, Thierry Adatte, Fadi H. Nader, Francisca Oboh-Ikuenobe, Mohamed K. Zobaa, Haytham El Atfy, 2023-05-04 The Phanerozoic Geology and Natural Resources of Egypt includes a series of chapters written by highly qualified group of researchers whose expertise is recognized and appreciated not only in Egypt but also in the world over The chapters span a wide range of geological subdisciplines including tectonics paleogeography stratigraphy sedimentology paleontology groundwater and energy resources just to name a few In this regard the book provides the reader with ample knowledge about the different facets of the fascinating and always intriguing geology of Egypt since the Precambrian time For a junior researcher or a geoscience student the book is a comprehensive multidisciplinary one stop resource that they will continue to reference and rely on for years to come For a more experienced scientist the book summarizes the current state of knowledge highlights the magnitude of complexity of the geology of Egypt and northeast Africa and reveals potential areas where future research should be directed The book is written in simple easy to understand English language and contains very useful high quality illustrations Last but not least The Phanerozoic Geology and Natural Resources of Egypt has been reviewed and edited by world class highly ranked geoscientists from Egypt Europe and USA Arabian Plate and Surroundings: Geology, Sedimentary Basins and Georesources Sami Khomsi, François M. Roure, Mansour Al Garni, Ammar Amin, 2019-08-30 This book focuses on the evolution of sedimentary basins of the Arabian Plate and its surroundings Because these sedimentary basins developed in various tectonic settings from extensional or transfersional to flexural transpressional or compressional their sedimentary sequences provide unique records of the

regional geology Georesources of the Arabian Plate are also described here including petroleum potential reservoirs water resources fresh water and deep saline aguifers as well as materials and ore deposits The book is made by a set of papers authored by geoscientists working in both academia and industry Numerous chapters describe some regional important geologic features and selected sedimentary basins from the Middle East North Africa and the Arabian Peninsula domains Other chapters focus on georesources A particular focus is given to the geology of Saudi Arabia This book is an important contribution to the geology of the Arabian Peninsula and its surroundings In view of the strategic and economic importance of the regional geology and georesources of the Arabian Plate and Surroundings this volume will constitute an important reference for a wide range of geoscientists interested in the geology of this region especially those active in petroleum geosciences and related industry Ultimately readers will discover important thematic maps in this book geosciences for exploring and predicting natural resources Ahmed M. Eldosouky, Amin Beiranvand Pour, Luan Thanh Pham, Biswajeet Pradhan, 2023-03-03 Structural Geology and Tectonics Field Guidebook — Volume 1 Soumyajit Mukherjee, 2021-03-22 This book helps a novice to explore the terrain independently Geoscience fieldwork with a focus on structural geology and tectonics has become more important in the last few years from both academic and industrial perspectives This book also works as a resource material for batches of students or geological survey professional undergoing training as parts of their course curriculum Industry persons on the other hand can get a first hand idea about what to expect in the field in case no academic person is available with the team This book focused on structural geology and tectonics compiles for the very first time terrains from several regions of the globe Ophiolites in Earth History Yildirim Dilek, Paul T. Robinson, 2003 The 32 papers in this volume examine the mode and nature of igneous metamorphic tectonic sedimentological and biological processes associated with the evolution of oceanic crust in different tectonic settings in Earth history as revealed in various ophiolites and ophiolite belts around the world and the geodynamic significance of these ophiolites in the evolution of different orogenic systems Divided into six thematic sections the book presents a wealth of new data and syntheses from mainly Phanerozoic ophiolites around the world Links Between Geological Processes, Microbial Activities & Evolution of Life Yildirim Dilek, Harald Furnes, Karlis Muehlenbachs, 2008-07-01 Microbial activities influence water rock interaction processes and chemical transport between the major geochemical reservoirs and the formation transformation of minerals and rocks whereas geological processes and geochemical controls influence the microbial ecology in extreme environments How biological activity influences geological processes and what role these processes played in the geological evolution of the Earth are fundamental questions How do we recognize the ancient microbial activities in the rock record and what analytical methods do we use to document them to better understand the evolution of life Can we detect the existence of microbial life in deep time by studying Archaean rocks Microbial systems in extreme environments and in the deep biosphere may be analogous to potential life on other planetary bodies and hence may

be used to investigate the possibilities of extraterrestrial life This book explores these questions in an interdisciplinary approach and examines the mode and nature of links between geological processes and microbial activities and their significance for the origin and evolution of life on the Earth and possibly on other planets The Geology of North Africa Zakaria Hamimi, Moulley Charaf Chabou, Ezzoura Errami, Abdel-Rahman Fowler, Nuri Fello, Amara Masrouhi, Rémi Leprêtre, 2024-05-20 This richly illustrated book reviews the geology tectonics sedimentary basins and strategic resources of North Africa in 21 chapters Chapter 1 is a regional synthesis Chapter 2 examines the deep crustal and upper mantle structure Chapter 3 compares the West African Craton Chapters 4 5 6 7 deal with Pan African Variscan Hercynian and Alpine Belts Precambrian Geology of Hoggar Shield north Central Africa will be addressed in Chapter 8 The North African Neoproterozoic and Phanerozoic sedimentary basins are the topic of Chapter 9 Phanerozoic magmatism and geodynamic framework of North Africa are addressed in Chapter 10 Chapters 11 12 deal with petroleum geology and water resources Important non metallic and metallic ore deposits are presented in Chapter 13 14 15 16 Chapters 17 18 explore geothermal energy and other strategic resources Chapters 19 20 discuss seismicity seismotectonics and Neotectonics and Advances of exploration geophysics in North Africa The last two chapters 20 21 focus on meteoric impact craters geoheritage geoparks and geotourism in North Africa Gondwana Research, 2006

This book delves into Neoproterozoic Tectonics Of The Arabiannubian Shield. Neoproterozoic Tectonics Of The Arabiannubian Shield is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Neoproterozoic Tectonics Of The Arabiannubian Shield, encompassing both the fundamentals and more intricate discussions.

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  - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Neoproterozoic Tectonics Of The Arabiannubian Shield.

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