

## Lower Palaeozoic reservoirs of North Africa

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**Abstract:** This paper provides an overview of features considered significant in the exploration and development of Lower Palaeozoic reservoirs of North Africa. Information is derived from a review of literature on the Lower Palaeozoic successions of north Africa, combined with outcrop observations from the Anti Atlas mountains of Morocco. The focus of the exploration-oriented part of the review is on identification of potential traps other than two-way structural dip closure. Stratigraphic elements described include depositional models of reservoir facies, tectonic unconformities and possible eustatic unconformities. Cases of established or potential trapping by post-depositional faulting, by diagenesis and by hydrodynamic flow are examined. Development-related topics highlighted include the impact on reservoir matrix quality of burial diagenesis and of palaeo-weathering at the Hercynian unconformity. Other issues discussed which additionally affect producibility from the reservoir matrix include tectonic fracturing, palaeotopography and unloading fracturing at the Hercynian unconformity, and induced fracturing within the present stress regimes.

The Cambrian to Silurian sequences of Algeria, Libya and Tunisia form one of the world's greatest concentrations of Lower Palaeozoic reservoirs. Algeria contains the largest number of fields discovered to date, including the giant field of Hassi Messaoud (Fig. 1). Libya also has substantial production from the Lower Palaeozoic, which is in the process of being boosted by new fields under development in the Murzuq Basin. Minor but potentially significant relatively

deep discoveries have also been made in Tunisia. Equivalent sequences in Egypt, Morocco (including former Western Sahara), Niger and Chad might also have hydrocarbon potential (see below).

To date, exploration for Lower Palaeozoic prospects has mainly focused on structural highs. As a consequence there are large areas, even close to producing fields, which remain undrilled. Most producing fields are situated on convincing

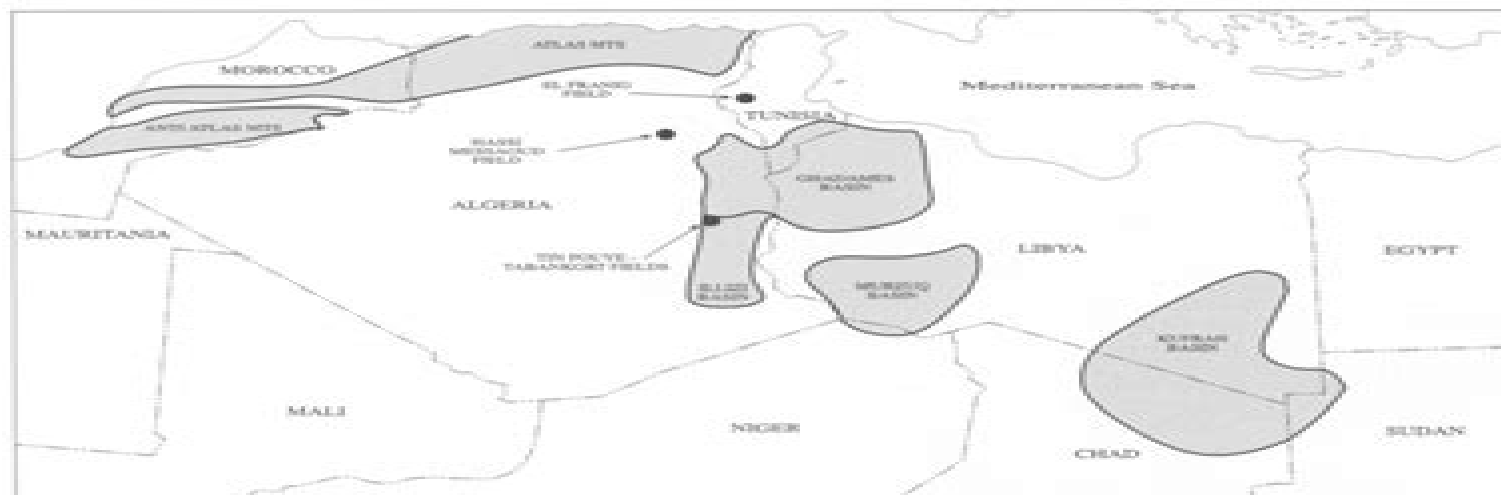


Fig. 1. North Africa locality map.

# Lower Palaeozoic Of North Western And West Central Africa

**Said Gaci**



## **Lower Palaeozoic Of North Western And West Central Africa:**

*Lower Palaeozoic of North-western and West-central Africa* Charles Hepworth Holland, 1985      **Lower Palaeozoic of North-Western and West-Central Africa** Charles H. Holland,      **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      *African Basins* R.C. Selley, 1997-11-20 Following on from the first 2 books in the series *Sedimentary Basins of the World* which covered Chinese Sedimentary Basins Volume 1 and South Pacific Sedimentary Basins Volume 2 comes Volume 3 on African Basins Africa covers a larger land area than the USA Europe India and the ASEAN nations put together It is rich in natural resources including oil gas coal and nearly every metalliferous mineral Yet Africa is still one of the least explored continents This book brings together in one volume concise reviews of basins previously documented in a vast array of diffuse literature It also contains some of the first detailed accounts of several basins which have never before been described in such depth These include the onshore Owambo Iullemmeden and Sudanese rift basins and the offshore basins of southern Africa The contributions are by authors and teams of authors with great knowledge and experience of the basins that they describe The thirteen chapters are arranged in 3 parts covering North Africa Central Africa and Southern Africa and the book is illustrated by maps cross sections stratigraphic sections and seismic lines Each chapter includes a comprehensive bibliography and the book concludes with a subject index For academic geologists researching the geology of Africa and for industrial geologists seeking natural resources within African sedimentary rocks this book is an invaluable source of information      *The Boundaries of the West African Craton* Nasser Ennih, Jean-Paul Liégeois, 2008      **Geological Exploration in Murzuq Basin** D. Worsley, 2000-12-19 The Murzuq Basin is a large intracratonic sag basin located in southwestern Libya Exploration efforts started in this vast and remote Saharan region already in 1957 and 60 exploratory wells have been drilled to date resulting in over 20 discoveries with around 4 000 million barrels of oil in place Most discoveries have been made in Ordovician sandstone reservoirs sourced by hot shales of the Lower Silurian Tanezuft

Formation Oil is already being produced and exported from the area but the basin's total hydrocarbon potential is still poorly understood. Recent exploration, especially the major discovery and initial development of the Giant Elephant Field, has greatly increased interest for the area's potential. Many petroleum geologists and companies now believe that the basin may well develop into a new major hydrocarbon province which will significantly contribute to Europe's energy needs in the next decades. This book presents papers from a conference held at Sebha University on the eastern margins of the Murzuq Basin in September 1998. The book continues an ongoing series of presentations of the geology of Libya but the 25 contributions herein mostly centre on the Murzuq Basin itself and on nearby areas. There are still many unresolved questions in terms of geological and hydrocarbon exploration in these difficult desert areas but the papers herein will hopefully present a first comprehensive overview of an exciting frontier exploration region. About half of the papers are directly related to hydrocarbon exploration and to source rock and reservoir development but a wide variety of other features are also described ranging from palaeontology and biostratigraphy to ore geology and water resources covering the entire geological column from the Precambrian to the Holocene. The book concludes with a bibliography covering all geological aspects of this challenging but very promising frontier area.

*Late Paleozoic Glacial Events and Postglacial Transgressions in Gondwana* Oscar R. López-Gamundí, Luis A. Buatois, 2010

*Geology of Northwest Africa* Alain Piqué, 2001 Northwest Africa comprises a vast territory from Morocco, Algeria, Tunisia to Mauritania made up of rocks which range in age from the Archaean Early Precambrian to the Quaternary. The book is the result of the author's extensive field studies in many parts of the covered area and a comprehensive compilation of previously published data. Alain Piqué is professor of structural geology at the Université de Bretagne occidentale Brest, France.

*The Formation and Evolution of Africa* Douwe J. J. van Hinsbergen, 2011 The African continent preserves a long geological record that covers almost 75% of Earth's history. The Pan African orogeny c. 600–500 Ma brought together old continental kernels West Africa, Congo, Kalahari and Tanzania to form Gondwana and subsequently the supercontinent Pangaea by the late Palaeozoic. The break up of Pangaea since the Jurassic and Cretaceous primarily through opening of the Central Atlantic, Indian and South Atlantic oceans in combination with the complicated subduction history to the north gradually shaped the African continent. This volume contains 18 contributions that discuss the geology of Africa from the Archaean to the present day.

**The West African Orogens and Circum-Atlantic Correlatives** R.D. Dallmeyer, J.P. Lecorche, 2012-12-06 In December 1987 Project 233 of the International Geological Correlation Program hosted an international conference in Nouakchott, Mauritania. Discussions were focused on the Tectono-thermal Evolution of the West African Orogens and Circum-Atlantic Terrane Linkages. A wealth of new information was presented during the conference and it was apparent that the time was appropriate to prepare a systematic volume dealing with the geology of Northwest Africa. The present volume is an outgrowth of this conference but is not merely a compilation of the papers presented in Nouakchott. Instead it represents a coordinated volume designed to present a

balanced comprehensive view of our present understanding of West African geology and potential correlations in other Circum Atlantic Paleozoic orogens We sincerely appreciate the efforts of all the reviewers whose comments have greatly helped to improve the quality of this volume We also thank the various contributors for their diligence and perseverance in manuscript preparation The calibre of the present volume is a reflection of their labor Athens Marseille Autumn 1990 R D DALLMEYER J P LECORCHE Contents Chapter 1 Introduction 3 R D DALLMEYER and J P LECORCHE Chapter 2 Geophysics and the Crustal structure of West Africa 9 J ROUSSEL and A LESQUER Chapter 3 Crystalline Basement of the West African Craton 31 Geology of Western Gondwana (2000 - 500 Ma) Roland Trompette, 2020-08-26 In considering the geology of Western Gondwana this text covers the Pan African Brasiliano cratons the Pan African Brasiliano fold belts and mosaic of Pan African Brasiliano mini cratons and minor fold belts Northeast Brazil and the Central Western portion of Africa

**Geology of the Appalachian—Caledonian Orogen in Canada and Greenland** Harold Williams, 1995 This volume focuses on the Canadian Appalachian region The chapter on the East Greenland Caledonides stands alone and there is no attempt to integrate the geological accounts of the two far removed regions Rocks of the Canadian Appalachian region are described under four broad temporal divisions lower Paleozoic and older middle Paleozoic upper Paleozoic and Mesozoic The rocks of these temporal divisions define geographic zones belts basins and graben respectively The area is of special interest because so many modern concepts of mountain building are based on Appalachian rocks structures **Geophysical Exploration for Hydrocarbon Reservoirs, Geothermal Energy, and Carbon Storage** Said Gaci, 2025-08-25 A practical guide to the latest technologies and techniques in subsurface energy exploration In Geophysical Exploration for Hydrocarbon Reservoirs Geothermal Energy and Carbon Storage New Technologies and AI based Approaches distinguished researcher Said Gaci delivers a practice oriented overview and comparison of the concepts methods and workflows for the geophysical characterization of hydrocarbon and geothermal reservoirs including those reservoirs suitable for large scale carbon sequestration Organized into four parts the book begins with a summary of novel petroleum exploration technologies and discussions of illustrative case studies from around the world It then explains how to integrate seismic and other non invasive surveying methods for a comprehensive multiscale reservoir characterization The third part explores the implementation of artificial intelligence tools in remote exploration rock typing and fluid prediction The final part demonstrates how to apply hydrocarbon exploration methods to the exploration and development of geothermal reservoirs and underground carbon dioxide storage sites Readers will find A multidisciplinary approach to combining conventional hydrocarbon exploration techniques with the power of artificial intelligence A thorough understanding of subsurface reservoir systems that links recent technical advances with new geological insights Practice oriented discussions of advanced technologies for non invasive reservoir characterization Selected case studies that illustrate the application of novel concepts in a real world setting Perfect for geologists geoengineers geophysicists and fossil fuel professionals Geophysical Exploration for

Hydrocarbon Reservoirs Geothermal Energy and Carbon Storage will also benefit anyone aiming to remain at the forefront of subsurface energy exploration in the twenty first century

**Palaeozoic Reefs and Bioaccumulations** J. Javier Alvaro, 2007 The geological record contains a fascinating diversity of reefs and shell accumulations As with many other biosedimentary structures their facies characterization requires careful observation at outcrop and sample scale and in thin section to provide information about the global geometries fabrics and textures respectively This collection of papers encompasses the breadth of sedimentary geometries and facies displayed by Palaeozoic reefs shell accumulations and transitional composite deposits The definition of reefs and shell concentrations has given rise to variations in nomenclature The papers in this volume cover specific problems regarding the nomenclature and facies characterization of reefs shell accumulations and transitional composite deposits However rather than attempt a complete revision of terms the authors have touched on some of the important issues at this stage of development in the field the main climatic environmental and evolutionary factors that controlled the Palaeozoic development of shell accumulations and reefs

**A Global Synthesis of the Ordovician System: Part 2** T. Servais, D.A.T. Harper, B. Lefebvre, I. G. Percival, 2023-06-08 The Ordovician was one of the longest of the geological periods characterized by major magmatic and tectonic activity an immense biodiversification swings in climate and sea levels and the first Phanerozoic mass extinction A Global Synthesis of the Ordovician System is presented in two volumes in The Geological Society Special Publications Whereas the first volume SP532 concentrates on general aspects and a synthesis of the Ordovician geology of Europe this volume SP533 includes reviews of Ordovician successions of most other parts of the world The classic successions of the Ordovician basins of North America are presented as well as those of China where several of the Ordovician Global Boundary Stratotype Sections and Points are defined The volume also includes syntheses of the Ordovician geology of Africa South America most regions of Asia from the Near to the Far East along with Central Asia as well as Australia New Zealand and Antarctica

**A Geologic Time Scale 1989** Walter Brian Harland, 1990-06-29 A concentrated review of the time scales used in geology in order to date stratigraphic sequences and to define geological epochs It is the planned successor to A Geologic Timescale and adopts the same style and employs similar methods

**Petroleum Geology of Libya** Don Hallett, Daniel Clark-Lowes, 2017-03-08 Petroleum Geology of Libya Second Edition systematically reviews the exploration history plate tectonics structural evolution stratigraphy geochemistry and petroleum systems of Libya and includes valuable new chapters on oil and gas fields production and reserves Since the previous edition published in 2002 there have been numerous developments in Libya including the lifting of sanctions a new licensing system with licensing rounds in 2004 2005 2006 and 2007 many new exploratory wells discoveries and field developments and a change of regime A large amount of new data has been published on the geology of Libya in the past fourteen years but it is widely scattered through the literature Much of the older data has been superseded and several of the key publications especially those published in Libya are difficult to access This second edition provides an updated source of

reference which incorporates much new information particularly on petroleum systems reserves oil and gas fields play fairways and remaining potential It presents the results of recent research and a detailed description of Libyan offshore geology The book includes an extensive and comprehensive bibliography Presents over 180 full colour illustrations including maps diagrams and charts illustrating the key concepts in a clear and concise manner Authored by two recognized world authorities on geology in Libya with over 40 years experience in Libya between them Provides an expanded and updated version of the bestselling previous edition nicknamed the Explorationist s Bible Lays the foundation for the post revolution exploration age in Libya

**Glaciogenic Reservoirs and Hydrocarbon Systems** M. Huuse, J. Redfern, D. P. Le Heron, R. J. Dixon (Geologist), A. Moscariello, Jonathan Craig, 2012 Glaciogenic reservoirs and hydrocarbon systems occur intermittently throughout the stratigraphic record with particular prominence in Neoproterozoic Late Ordovician Permo Carboniferous and Late Cenozoic strata Recent interest in glaciogenic successions has been fuelled by hydrocarbon discoveries in ancient glaciogenic reservoirs in North Africa the Middle East Australia and South America Glaciogenic deposits of Pleistocene age are noteworthy for their content of groundwater onshore and potentially prospective and or hazardous gas accumulations offshore The abundant imprints of Pleistocene glaciations in both hemispheres can be used to reconstruct complex histories of repeated ice cover and retreat and glacier bed interactions thus informing our view on the dynamics of older ice caps and predictions of future glaciations This volume aims to provide a better understanding of glaciogenic processes their stratigraphic record and reservoir characteristics of glaciogenic deposits The book comprises 3 overview papers and 16 original case studies of Neoproterozoic to Pleistocene successions on 6 continents and will be of interest to sedimentologists glaciologists geophysicists hydrologists and petroleum geologists alike P 4 of cover

**Global Neoproterozoic Petroleum Systems** Jonathan Craig, 2009 Worldwide Neoproterozoic successions are major hydrocarbon producers In North Africa large basins with significant surface outcrops and thick sedimentary fills are widespread These basins are now emerging as potential sources of hydrocarbons and are attracting interest both from geological researchers and the oil and gas industry This volume focuses on recent developments in the understanding and correlation of North African basin fills and explores novel approaches to prospecting for source and reservoir rocks The papers cover aspects of petroleum prospectivity and age equivalent global petroleum systems Neoproterozoic tectonics and palaeogeography sequence stratigraphy glacial events and global climatic models faunal and floral evolution and the deposition of early source rocks The broader aim is to compare with and learn from well studied Neoproterozoic successions globally including major environmental change the emergence of life the global carbon cycle and implications for hydrocarbon exploration

**Papers from the 6th International Conference on Trilobites and their Relatives** Alan W. Owen, David L. Bruton, 2019-09-10 A volume from a monograph series featuring seven papers on trilobites with brief summaries This research volume is entitled Papers from the 6th International Conference on Trilobites and their Relatives It s Volume 64 within the Fossils and Strata monograph series The

research compilation originated from a 2017 conference in Estonia Seven papers on trilobites are included with summaries in the publication The papers topics cover trilobites from the Early Cambrian to the Late Devonian

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