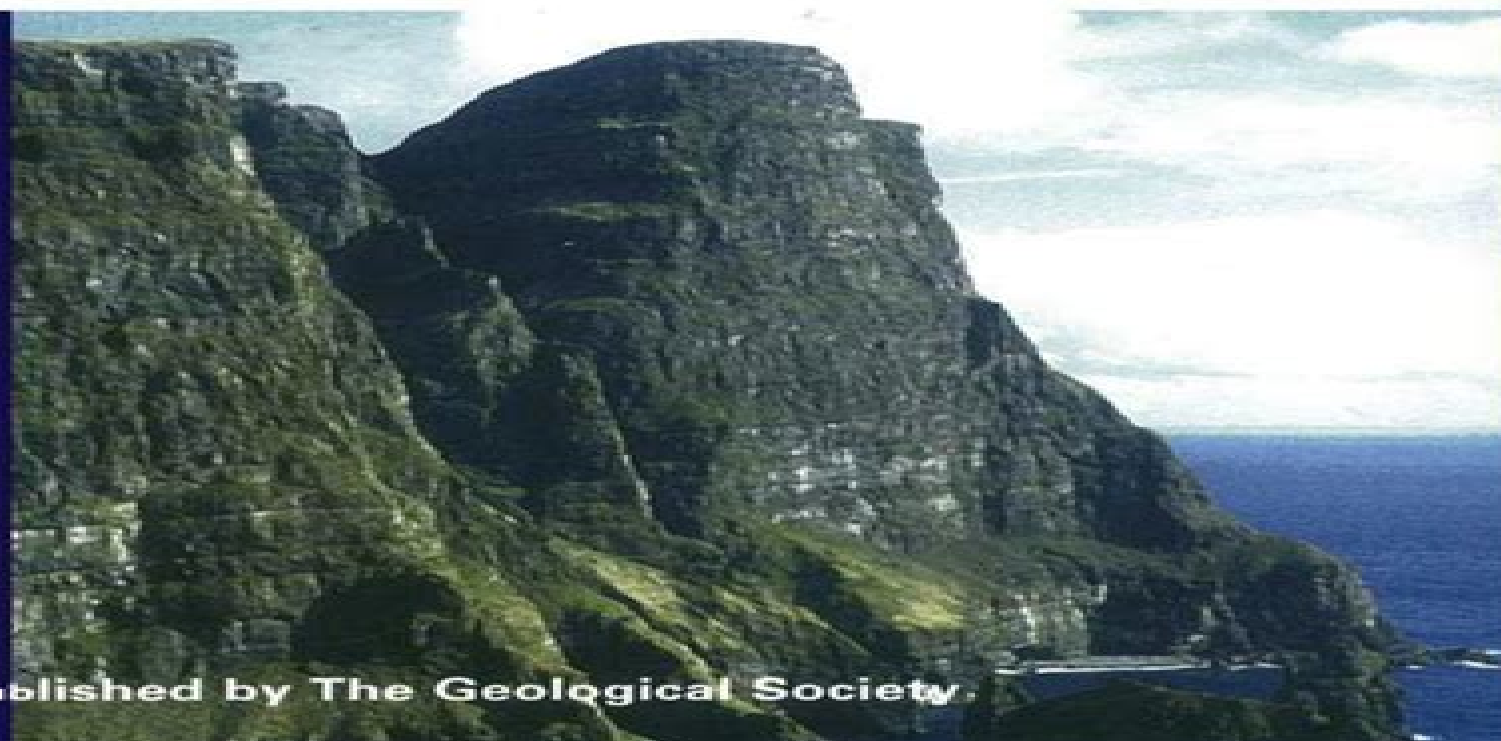


The North Atlantic Igneous Province: Stratigraphy, Tectonic, Volcanic and Magmatic Processes

edited by D. W. Jolley and B. R. Bell



**Geological Society
Special Publication
No. 197**



Published by The Geological Society

The North Atlantic Igneous Province Stratigraphy Tectonic Volcanic And

**Rajesh K. Srivastava, Richard E.
Ernst, Peng Peng**



The North Atlantic Igneous Province Stratigraphy Tectonic Volcanic And:

The North Atlantic Igneous Province David W. Jolley, B. R. Bell, 2002 Recently recognition of the potential role of large igneous provinces in affecting ocean and atmosphere systems and biotic evolutionary pathways has led to increased interest in this province This has been further stimulated by the expansion in the search for oil and gas in Mesozoic and Tertiary sediments along the NE Atlantic Margin An improved understanding of the interaction between igneous and sedimentary processes is vital for the identification of potential hydrocarbon resources **The NE Atlantic Region** G.

Péron-Pinvidic, J.R. Hopper, M.S. Stoker, C. Gaina, J.C. Doornenbal, T. Funck, U.E. Ártig, 2017-10-30 The NAG TEC project was a collaborative effort by the British Geological Survey the Geological Survey of Denmark and Greenland the Geological Survey of Ireland the Geological Survey of the Netherlands the Geological Survey of Northern Ireland the Geological Survey of Norway Iceland GeoSurvey and the Faroese Geological Survey Jar feingi along with a number of academic partners and significant support from industry The main focus was to investigate the tectonic evolution of the region with a particular emphasis on basin evolution along conjugate margins A key outcome was the development of a new tectonostratigraphic atlas and database that includes comprehensive geological and geophysical information relevant for understanding the Devonian to present evolution of the NE Atlantic margins These provide the foundation upon which ongoing research and exploration of the area can build This Special Publication provides some of the first scientific results and analysis based on the project including regional stratigraphic analysis and correlations crustal structure and interpretation of geophysical data sets plate kinematics and the evolution of igneous provinces **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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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>

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

A revised correlation of Tertiary rocks in the British Isles and adjacent areas of NW Europe C. King, 2016-01-05 This Special Report comprehensively describes the stratigraphy and correlation of the Tertiary Paleogene Neogene rocks of NW Europe and the adjacent Atlantic Ocean and is the summation of fifty years of research on Tertiary sediments by Chris King His book is essential reading for all geologists who deal with Tertiary rocks across NW Europe including those in the petroleum industry and geotechnical services as well as academic stratigraphers and palaeontologists Introductory sections on chronostratigraphy biostratigraphy and other methods of dating and correlation are followed by a regional summary of Tertiary sedimentary basins and their framework and an introduction to Tertiary igneous rocks The third and largest segment comprises the regional stratigraphic summaries Regions covered are the North Sea Basin onshore areas of southern England and the eastern English Channel area the North Atlantic margins including non marine basins in the Irish Sea and elsewhere and the Paleogene igneous rocks of Scotland *Hydrocarbon Exploration to Exploitation West of Shetlands* S.J.C.

Cannon ,D. Ellis ,2014-06-09 This volume addresses the challenges facing explorers and developers alike in a region that is becoming a major focus of the petroleum industry in the United Kingdom Faroes and North Norway Several West of Shetland fields are still in the appraisal phase almost a decade after discovery Sub volcanic exploration risks remain high sub volcanic structural traps are imaged poorly and so the geophysical community is responding with the application of latest technology The more simple reservoirs might not be large enough to prompt informed and speedy development decisions larger fields might have a combination of complexities requiring a phased approach to the development Infrastructure has been slow to arrive and planned developments have been subject to dramatic swings in fiscal regime ranging from special allowances to unexpected tax increases Environmental challenges are significant when moving into more remote deeper water The perception of these challenges by the third parties has become much more acute To sustain its right to operate the industry has to demonstrate safe drilling operations and appropriate response capability with government agencies

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

Cross Border Themes in Petroleum Geology II

D. Chiarella,S. Patruno,H. Kombrink,C.A.-L. Jackson,J.A. Howell,S.G. Archer,2022-09-13 A cross border approach to exploration appraisal and development is important in mature areas such as the Atlantic Margin and in frontier areas such as the Barents Sea An approach of this nature emphasizes the need to see the basin as one geological entity to maximize economic recovery and prepare the area for the energy transition This volume offers an up to date geology without borders view of the stratigraphy sedimentology and tectonics trends in these areas It also looks at the challenges

associated with differences in data continuity and nomenclature across median lines A companion volume SP494 Cross Border Themes in Petroleum Geology I The North Sea provides a similar cross border analysis for the North Sea Basin across the offshore boundaries of Germany the Netherlands Norway and the UK Cross Border Themes in Petroleum Geology II Atlantic Margin and Barents Sea will be a valuable reference for every geoscientist working in the Atlantic Margin and the Barents Sea for years to come This Volcanic Isle Robert Muir-Wood,2024 This Volcanic Isle explores the rich geological history of the British Isles over the past 66 million years since the disappearance of the dinosaurs From the Isle of Wight needles to the Giant s causeway to the Sticklepath faultline in Devon this book recounts how earthquakes and eruptions plumes and plate boundaries built the British Isles **Tectonics of the Deccan Large Igneous Province** S. Mukherjee,A.A. Misra,G. Calvès,M. Nemčok,2017-03-31 Understanding the Deccan Trap Large Igneous Province in western India is important for deciphering the India Seychelles rifting mechanism This book presents 13 studies that address the development of this province from diverse perspectives including field structural geology geochemistry analytical modelling geomorphology and geophysics e g palaeomagnetism gravity and magnetic anomalies and seismic imaging Together these papers indicate that the tectonics of Deccan is much more complicated than previously thought Key findings include the Deccan province can be divided into several blocks the existence of a rift induced palaeo slope constraints on the eruption period rift drift transition mechanisms determined for magma rich systems the tectonic role of the Deccan or R union plumes sub surface structures reported from boreholes the delineation of the crust mantle structure the documentation of sub surface tectonic boundaries post Deccan Trap basin inversion deformed dykes around Mumbai and also from the eastern part of the Deccan Traps documented in the field *Legal and Scientific Aspects of Continental Shelf Limits* Myron H. Nordquist,John Norton Moore,Tomas Heidar,2004-02-01 The legal and scientific aspects of continental shelf limits are of growing importance to those concerned with the international law of the sea It is rare that the current thinking of both leading lawyers and scientists are brought together in one volume Among the topics raised in this volume are geomorphology and geology ridge issues Commission on the Limits of the Continental Shelf shelf resources and current issues such as the outer limit of the continental shelf in the Arctic Ocean evaluating U S data holdings relevant to the definition of continental shelf limits delimiting China s continental shelves and future directions of the International Seabed Authority Lastly the Under Secretary General for Legal Affairs United Nations H E Hans Corell provides a strategic overview on the challenges in implementing international ocean governance Another unique feature of the volume is that a CD is placed in the back cover containing visual materials not included in the printed text United Kingdom Oil and Gas Fields G. Goffey,J.G. Gluyas,2020-12-03 Geological Society Memoir 52 records the extraordinary 50 year journey that has led to the development of some 458 oil and gas fields on the UKCS It contains papers on almost 150 onshore and offshore fields in all of the UK s main petroliferous basins These papers range from look backs on some of the first developed gas fields in the Southern North

Sea to papers on fields that have only just been brought into production or may still remain undeveloped and includes two candidate CO₂ sequestration projects These papers are intended to provide a consistent summary of the exploration appraisal development and production history of each field leading to the current subsurface understanding which is described in greater detail As such the Memoir will be an enduring reference source for those exploring for developing producing hydrocarbons and sequestering CO₂ on the UKCS in the coming decades It encapsulates the petroleum industry's deep subsurface knowledge accrued over more than 50 years of exploration and production

Petroleum Geology of NW Europe B. Levell, M. Bowman, 2018-02-15 Published by the Geological Society on behalf of PGC Ltd 1 hardback volume in slipcase The 8th Conference on the Petroleum Geology of NW Europe was held in September 2015 and marked the 50th anniversary of the first commercial discovery offshore in the North Sea West Sole in September 1965 Its focus was 50 Years of Learning a Platform for Present Value and Future Success and its objective was to provide an update on discoveries developments technologies and geological concepts from the region The 39 extensively illustrated technical papers cover the full width of recent activity and are divided into the following sections Plays and fairways Play assessment Recent successes and learnings from failures Infrastructure led exploration and development Late life fields re development and the next life Onshore exploration and development The proceedings volume follows the format of many of the previous conferences since the first in 1974 Collectively these provide a unique documentation of the discovery and development of several NW European hydrocarbon provinces The volume will be of interest to all geoscientists involved in exploration and development in NW Europe It provides a fascinating overview of how creativity can continue to reveal hidden resources in an area that has been called mature for at least the last 20 of its 50 year history

The Mjølner Impact Event and its Consequences Filippou Tsikalas, Henning Dypvik, Morten Smelror, 2010-09-22 The Mjølner impact structure was recognized in 1993 and included in the Earth Impact Database in 1996 based on the discoveries of unequivocal meteorite impact indicators such as shocked quartz Ir enrichments possible glass remnants fragments of nickel rich iron oxides in addition to the convincing complex crater shape of the structure This book presents the geological and geophysical history of the Barents Sea region along with the discovery of the Mjølner impact crater We place the Mjølner event into the geological framework of the region and present elaborate numerical models of its formation and associated tsunami generation The book represents an update and synthesis as well as the complete compilation of the Mjølner crater studies

Large Igneous Provinces Richard E. Ernst, Alex Dickson, Andrey Bekker, 2021-02-09 This book is Open Access A digital copy can be downloaded for free from Wiley Online Library Exploring the links between Large Igneous Provinces and dramatic environmental impact An emerging consensus suggests that Large Igneous Provinces LIPs and Silicic LIPs SLIPs are a significant driver of dramatic global environmental and biological changes including mass extinctions Environmental changes caused by LIPs and SLIPs include rapid global warming global cooling Snowball Earth oceanic anoxia events mercury poisoning atmospheric and oceanic

acidification and sea level changes Continued research to characterize the effects of these extremely large and typically short duration igneous events on atmospheric and oceanic chemistry through Earth history can provide lessons for understanding and mitigating modern climate change Large Igneous Provinces A Driver of Global Environmental and Biotic Changes describes the interactions between the effects of LIPs and other drivers of climatic change the limits of the LIP effect and the atmospheric and oceanic consequences of LIPs in significant environmental events Volume highlights include Temporal record of large igneous provinces LIPs Environmental impacts of LIP emplacement Precambrian Proterozoic and Phanerozoic case histories Links between geochemical proxies and the LIP record Alternative causes for environmental change Key parameters related to LIPs and SLIPs for use in environmental change modelling Role of LIPs in Permo Triassic Triassic Jurassic and other mass extinction events 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

Continental Rifted Margins 2 Gwenn Peron-Pinvidic, 2022-05-23 Rifted margins mark the transition between continents and oceans which are the two first order types of land masses on Earth Rifted margins contribute to our understanding of lithospheric extensional processes and are studied by various disciplines of Earth Science geology geophysics geochemistry Thanks to better and wider public access to high quality data our understanding in these areas has improved significantly over these last two decades This book summarizes this knowledge evolution and details where we stand today with a series of case examples included It is structured in a practical way with concise text descriptions and comprehensive diagrams Continental Rifted Margins 2 is a useful resource for students and newcomers to the rifted margin community a cookbook of sorts to facilitate the reading of scientific publications and provide basic definitions and explanations

Large Igneous Provinces and their Plumbing Systems R. K. Srivastava, R. E. Ernst, K. L. Buchan, M. De Kock, 2022-03-15 Identification of large volume short duration mafic magmatic events of intraplate affinity in both continental and oceanic settings on the Earth and other planets provides invaluable clues for understanding several vital geological issues of current concern Of particular importance is understanding the assembly and dispersal of supercontinents through Earth's history dramatic climate change events including mass extinctions and processes that have produced a wide range of large igneous province LIP related resources such as Ni Cu PGE Au U base metals and petroleum This volume comprises 21 contributions on the latest developments and new information on LIPs and their plumbing systems and presents methodical studies on different components of LIP plumbing systems These articles are especially helpful in understanding continental break up events regional domal uplift and a variety of metallogenic systems as well as the temporal and spatial distribution of LIPs their origin and their likely links to mantle plumes superplumes

Sediment Provenance Studies in Hydrocarbon Exploration and Production R.A. Scott, H.R. Smyth, A.C. Morton, N. Richardson, 2014-06-25 Sediment provenance studies concern the origin composition transportation and deposition of detritus and therefore are an important part of

understanding the links between basinal sedimentation and hinterland tectonics and unroofing. Such studies can add value at many stages of hydrocarbon exploitation from identifying regional scale crustal affinities and sediment dispersal patterns during the earliest stages of exploration to detailed correlation in producing reservoirs and understanding the impact of mineralogy on reservoir diagenesis. The volume showcases the wide variety of techniques available using examples and applications from all aspects of sediment provenance research. The papers are organized into four sets around the following themes: Overview applications of provenance information in hydrocarbon reservoir sandstones; Provenance diagenesis and reservoir quality; Provenance studies linking sediment to source; Looking forward development of techniques and data handling. This book is dedicated to the memory of Maria Mange and Robert A Scott. *Treatise on Geophysics*, 2015-04-17

Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously. Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics. A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution. Additional features include new material in the Planets and Moon, Mantle Dynamics, Core Dynamics, Crustal and Lithosphere Dynamics, Evolution of the Earth and Geodesy volumes. New material is also presented on the uses of Earth gravity measurements. This title is essential for professionals, researchers, professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science. Comprehensive and detailed coverage of all aspects of geophysics. Fundamental and state of the art discussions of all research topics. Integration of topics into a coherent whole.

Dyke Swarms of the World: A Modern Perspective Rajesh K. Srivastava, Richard E. Ernst, Peng Peng, 2018-11-19. Continuing the tradition of International Dyke Conference this book is largely based on contributions from the IDC7 but also includes some chapters by invitation. It focuses on mafic dyke swarms and related associations e.g. links with sills, kimberlites, syenites, carbonatites and volcanics discussing the following themes: i regional maps, reviews of dyke swarms and related units; ii the role of giant dyke swarms in the reconstruction of supercontinents, paleocontinents; iii mapping of dykes using remote sensing techniques; iv geochronology of dyke swarms; v petrology, geochemistry and petrogenesis of dykes; vi emplacement mechanism of dykes; vii dyke swarms and planetary bodies and viii links to mineralization and resources.

The Enigmatic Realm of **The North Atlantic Igneous Province Stratigraphy Tectonic Volcanic And**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **The North Atlantic Igneous Province Stratigraphy Tectonic Volcanic And** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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