



Regional Geology Of Northern Ireland

Tom McCann



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Regional Geology of Northern Ireland Harold E. Wilson, 1972 **The Geology of Northern Ireland** William Ian Mitchell, 2004 *The Geology of Ireland* Charles Hepworth Holland, Ian Sanders, 2022-07-18 The Geology of Ireland is about the island of Ireland as a physical whole and includes chapters on marine geology and the history of geology in Ireland The text is intended for professional geologists and students of geology *Geology of Ireland* P. A. Meere, Ivor MacCarthy, John Reavy, Alistair Allen, Ken Higgs, 2013 A beautifully illustrated field guide to Ireland's geology which is both varied and spectacular British Sources of Information P. Jackson, 2003-09-02 This comprehensive and versatile reference source will be a most important tool for anyone wishing to seek out information on virtually any aspect of British affairs life and culture The resources of a detailed bibliography directory and journals listing are combined in this single volume forming a unique guide to a multitude of diverse topics British politics government society literature thought arts economics history and geography Academic subjects as taught in British colleges and universities are covered with extensive reading lists of books and journals and sources of information for each discipline making this an invaluable manual *The Geology of England and Wales* P. J. Brenchley, Peter Franklin Rawson, 2006 This second edition of The Geology of England and Wales is considerably expanded from its predecessor reflecting the increase in our knowledge of the region and particularly of the offshore areas Forty specialists have contributed to 18 chapters which cover a time range from 700 million years ago to 200 million years into the future A new format places all the chapters in approximately temporal order Both offshore and economic geology now form an integral part of appropriate chapters The Geology of Germany Martin Meschede, Laurence N. Warr, 2019-03-11 This richly illustrated book presents Germany's geological evolution in the context of the Earth's dynamic history It starts with an introduction to Geology and explains the plate tectonic development as well as the formation of both ancient and recent mountain belts namely the Caledonian Variscan and the modern day Alps that formed this part of Europe A dedicated chapter discusses the origin of earthquakes in Germany the occurrence of young volcanic rocks and the various episodes of rock deformation and metamorphism at these complex crossroads of plate tectonic history The book highlights Germany's diverse geological history ranging from the origin of the Earth the formation of deep crystalline rocks and their overlying sedimentary sequences to its more recent ice age quaternary cover The last chapter addresses the shaping of the modern landscape Though the content is also accessible for non geologists it is primarily intended for geoscience students and an academic audience **The Petroleum Exploration of Ireland's Offshore Basins** Geological Society of London, 2001 This text covers a wide range of exploration topics from the regional to the field scale It provides new information on Neogene to recent stratigraphy and sedimentation in the North Atlantic A significant amount of exploration has taken place since the publication of Geological Society special publication no 93 in 1995 *The Geology of Scotland, 4th edition* N. H. Trewin, 2003-02-24 This 4th edition of The Geology of Scotland is greatly expanded from the previous edition

with 34 authors contributing to 20 chapters A new format has been adopted to provide a different perspective on the geology of Scotland A brief introduction is followed by a chapter outlining some of the important historical aspects that in the 19th century placed Scottish geologists in the forefront of a new science Scotland is constructed from a number of terranes that finally combined in roughly their present positions prior to about 410 million years ago Thus the geology of each terrane is described up to the time of amalgamation providing chapters on the Southern Uplands Midland Valley Highlands Grampian and Hebridean terranes At the end of this section a brief synthesis summarizes the events that resulted in the amalgamation of the various terranes into the present configuration Traditional practice is followed in the description of the Old Red Sandstone Carboniferous Permian Triassic Jurassic Cretaceous tertiary and Quaternary strata A separate chapter covers Tertiary igneous rocks An attempt is made to tell the story of the geological evolution of Scotland rather than catalogue all areas and formations Priority is given to the onshore geology encouraging the reader to go into the field and visit some of the world class geology on show in Scotland The chapters are broadly based attempting to integrate the sedimentary and igneous histories and summarize changes in palaeogeography and palaeoenvironments Economic aspects are covered with chapters on Metalliferous Minerals Bulk Resources Coal and Hydrocarbons A new departure is the chapter on aspects of Environmental Geology and sustainability Additionally this publication contains a colour section of 32 plates illustrating aspects of Scottish Geology as well as a coloured geological map of Scotland

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

High Resolution Morphodynamics and Sedimentary Evolution of Estuaries Duncan M. FitzGerald, Jasper Knight, 2007-07-05 This collection of papers offers a new approach to nearshore and estuary studies with an emphasis on multidisciplinary techniques and data integration The important results of these studies are accompanied by full color images

Sedimentary Cover—North American Craton: U.S. L.L. Sloss, The sedimentary cover refers to the stratified rocks of youngest Proterozoic and Phanerozoic age that rest upon the largely crystalline basement rocks of the continental interior This volume presents data and interpretations of the geophysics of the craton and summarizes the craton's tectonic evolution It also presents the stratigraphy structural history and economic geology of specific sedimentary basins e.g. Appalachian basin and regions e.g. Rocky Mountains It concludes with a discussion of the currently popular theories of cratonic tectonics unresolved questions are identified

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

Statistics and Data Analysis in Geochemical Prospecting R.J. Howarth, 2013-10-22 Handbook of Exploration Geochemistry Volume 2 Statistics and Data Analysis in Geochemical Prospecting aims to survey the techniques available for the quality control of laboratory data storage and retrieval of field and laboratory information statistical analysis of single and multi element data and presentation of geochemical data as maps The selection first elaborates on data storage and retrieval control procedures in geochemical analysis and univariate analysis Discussions focus on analysis of variance density distribution probability graphs statistical basis of analytical quality control laboratory control procedures data storage media data organization programming considerations and generalized data systems The book then takes a look at sampling methodology mapping and multivariate analysis Concerns cover correlation cluster analysis regression partial correlation class selection techniques map filtering techniques cross correlation maps strategies for optimum sampling design and search techniques The manuscript elaborates on examples of geochemical data processing in Africa mathematical and statistical activity in North America statistical models for geochemical anomalies geochemical characterization of tin granites in northern Thailand and use of pattern classification methods in till geochemistry The selection is highly recommended for researchers interested in statistics and data analysis in geochemical prospecting

A Revised Correlation of Precambrian Rocks in the British Isles Wes Gibbons, Anthony Leonard Harris, Geological Society of London, 1994

The Geology of Central Europe Tom McCann, 2008 The first of a two volume set this text focuses on the evolution of Central Europe from the Precambrian to the Permian a dynamic period which traces the formation of Central Europe from a series of microcontinents that separated from Gondwana through to the creation of Pangaea Separate summary chapters on the Cadomian Caledonian and Variscan orogenic events as well as on Palaeozoic magmatism provide an overview of the tectonic and magmatic evolution of the region

Pannotia to Pangaea B. Murphy, R.A. Strachan, C. Quesada, 2021-01-28 Special Publication 503 celebrates the career of R Damian Nance It features 27 articles with more than 110 authors based in 18 different countries These articles include contributions on the processes

responsible for the formation and breakup of supercontinents the controversies concerning the status of Pannotia as a supercontinent the generation and destruction of Paleozoic oceans and the development of the Appalachian Ouachitan Caledonide Variscan orogens In addition to field work the approaches to gain that understanding include examining the relationships between stratigraphy and structural geology precise geochronology geochemical and isotopic fingerprinting geodynamic modelling regional syntheses palaeogeographic modelling and good old fashioned arm waving The wide range of topics mirrors the breadth and depth of Damian s contributions interests and expertise Like Damian s papers the contributions range from the predominantly conceptual to detailed field work but all are targeted at understanding important tectonic processes Their scope not only varies in scale from global to regional to local but also in the range of approaches required to gain that understanding

Geological Mapping of Our World and Others Robert W. H. Butler, Taija Torvela, Laura M. Williams, 2024-04-23 Map making is a fundamental tool for developing geological knowledge It involves data collection and interpretation and has its roots in the earliest discoveries in Earth science It is the starting point for stratigraphic and structural interpretations metamorphic facies geochronology and modelling studies and underpins civil engineering From the beginning geological mapping rapidly evolved into far more than being a simple spatial catalogue of observable rock types and landforms on the Earth s land surface deductive reasoning allows this knowledge to infer subsurface Earth structure However the same approaches have also been down scaled to deduce processes on the grain scale or up scaled to look out to extraterrestrial objects This Special Publication draws together these strands crossing geoscience disciplines and observation scales to celebrate geological mapping its historical importance and future directions and its use in applied geology together with developing knowledge of Earth and planetary evolution and processes

Roadside Geology of Northern and Central California David D. Alt, Donald W. Hyndman, 2016 California s geology makes headlines when faults shift volcanoes puff steam and coastal bluffs fall into the sea This book explores the state s recent rumblings and tremulous past with the aid of full color illustrations Photographs showcase multihued rock from red chert and green serpentinite to blue schist and gray granite The geologic information particularly for the Klamath Mountains Modoc Plateau and northern Sierra Nevada has been updated to reflect new geologic understanding of these complex areas Features detailed easy to read color geologic road maps based on the 2010 Geologic Map of California

Geology of the Lake Titicaca Region, Peru and Bolivia Norman Dennis Newell, 1949

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