

Sedimentary Basins of the World, 2 (Series Editor: K.-J. Hsu)

South Pacific Sedimentary Basins

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South Pacific Sedimentary Basins

G.M. Gibson, F. Roure, G. Manatschal



South Pacific Sedimentary Basins:

South Pacific Sedimentary Basins Peter F. Ballance, 1993 Hardbound Sedimentary basins contain most of the extant record of the earth's history and they provide us with most of our earth sourced raw materials. Therefore their study is both scientifically and economically important. This book gives the first comprehensive coverage of sedimentary basins in the New Zealand region. Comprising 21 chapters by 32 authors it discusses sedimentary basins ranging in age from Permian to Quaternary. The chapters are process and topic oriented. Three distinct basin forming periods are covered: 1. Permian through Jurassic arc related terranes; 2. Mid Cretaceous through Oligocene extensional basins; 3. Neogene convergent margin basins. Resource scientists investigating sedimentary basins and all researchers working on basin related topics will find this volume of interest. South Pacific sedimentary basins Peter F. Ballance, 1993 **Sedimentary Basins** Gerhard

Einsele, 2013-06-29 The modern geological sciences are characterized by extraordinarily rapid progress as well as by the development and application of numerous new and refined methods, most of them handling an enormous amount of data available from all the continents and oceans. Given this state of affairs it seems inevitable that many students and professionals tend to become experts in relatively narrow fields and thereby are in danger of losing a broad view of current knowledge. The abundance of new books and symposium volumes testifies to this trend toward specialization. However, many geologic processes are complex and result from the interaction of many seemingly unrelated individual factors. This signifies that we still need generalists who have the broad overview and are able to evaluate the great variety of factors and processes controlling a geologic system such as a sedimentary basin. In addition, this also means that cooperation with other disciplines in the natural sciences and engineering is increasingly important. Modern text books providing this broad overview of the earth sciences are rare. *Sedimentary Basins and Crustal Processes at Continental Margins* G.M. Gibson, F. Roure, G.

Manatschal, 2015-10-19 Continental margins and their fossilized analogues are important repositories of natural resources. With better processing techniques and increased availability of high resolution seismic and potential field data, imaging of present day continental margins and their embedded sedimentary basins has reached unprecedented levels of refinement and definition as illustrated by examples described in this volume. This in turn has led to greatly improved geological geodynamic and numerical models for the crustal and mantle processes involved in continental margin formation from the initial stages of rifting through continental rupture and break up to development of a new ocean basin. Further informing these models and contributing to a better understanding of the features imaged in the seismic and potential field data are observations made on fossilized fragments of exhumed subcontinental mantle lithosphere and ocean continent transition zones preserved in ophiolites and orogenic belts of both Palaeozoic and Mesozoic age from several different continents including Europe, South Asia and Australasia. **The Sedimentary Basins of the United States and Canada** Andrew Miall, 2008-12-03 In recent years there have been rapid strides in our understanding of plate tectonic processes, many

developments in methods of basin analysis and the accumulation of much new surface and subsurface geological and geophysical data. Projects such as COCORP in the United States and Lithoprobe in Canada have provided essential insights into the deep crustal structure of the continent. Synthesis of all the available information about North America's geological regions has not been attempted systematically since the Decade of North American Geology project undertaken by the Geological Society of America and the Geological Survey of Canada nearly twenty years ago. The book commences with a summary of the Phanerozoic geological history of the United States and Canada illustrated with a suite of new paleogeographic maps and tying in each of the subsequent regional chapters by the inclusion of numerous cross references. This is followed by a set of fifteen regional syntheses of the principal tectonic regions of the United States and Canada focusing on the stratigraphic and tectonic history of the major sedimentary basins. Most of these chapters have been contributed by specialists drawing on their own research and providing interpretive summaries of a type not previously attempted. Up to date synthesis of the sedimentary tectonic history of the major areas of the United States and Canada. Up to date references. Many new color maps.

Tectonics of Sedimentary Basins Cathy Busby, Antonio Azor Pérez, 2011-12-07 Investigating the complex interplay between tectonics and sedimentation is a key endeavor in modern earth science. Many of the world's leading researchers in this field have been brought together in this volume to provide concise overviews of the current state of the subject. The plate tectonic revolution of the 1960s provided the framework for detailed models on the structure of orogens and basins summarized in a 1995 textbook edited by Busby and Ingersoll. *Tectonics of Sedimentary Basins: Recent Advances* focuses on key topics or areas where the greatest strides forward have been made while also providing on-line access to the comprehensive 1995 book. Breakthroughs in new techniques are described in Section 1 including detrital zircon geochronology, cosmogenic nuclide dating, magnetostratigraphy, 3-D seismic and basin modelling. Section 2 presents the new models for rift, post-rift, transtensional and strike-slip basin settings. Section 3 addresses the latest ideas in convergent margin tectonics including the sedimentary record of subduction initiation and subduction, flat slab subduction and arc-continent collision. It then moves inboard to forearc basins and intra-arc basins and ends with a series of papers formed under compressional strain regimes as well as post-orogenic intramontane basins. Section 4 examines the origin of plate interior basins and the sedimentary record of supercontinent formation. This book is required reading for any advanced student or professional interested in sedimentology, plate tectonics or petroleum geoscience. Additional resources for this book can be found at www.wiley.com/go/busby/sedimentarybasins.

Paleozoic-Mesozoic Geology of South Island, New Zealand
Subduction-related Processes Adjacent to SE Gondwana A.H.F. Robertson, 2019-05-09 This volume presents a set of research papers that provide new data and interpretations of the Permian-Triassic terranes of SE Gondwana now exposed in South Island, New Zealand. Following an introduction for general readers, a historical summary and a review of biostratigraphy, the individual papers primarily focus on the Permian magmatic arc of the Brook Street Terrane, the classic

Permian Dun Mountain ophiolite and the Permian Triassic Maitai Group sedimentary succession The new results emphasize the role of subduction and terrane displacement adjacent to the Permo Triassic Gondwana margin and present fundamental insights into three crustal processes subduction initiation supra subduction zone oceanic crust genesis and forearc basin evolution The volume concludes with a wide ranging summary and synthesis of the regional Cambrian to Early Cretaceous tectonostratigraphy of New Zealand s South Island in relation to the wider areas of Zealandia East Australia and West Antarctica The volume will interest geoscientists including stratigraphers sedimentologists palaeontologists igneous petrologists geochemists geochronologists and economic geologists and is aimed at professional geologists and advanced students of geology

The Global Coastal Ocean - Regional Studies and Syntheses Kenneth H. Brink, Allan R. Robinson, 2005

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

Cyclic Development of Sedimentary Basins J.M. Mabesoone, V.H. Neumann, 2005-10-26 Cyclic Development of Sedimentary Basins presents the controversial subject of the cyclic phenomena in the earth s evolutionary history and its reflection in the development of sedimentary basins and its lithic infillings Galactic rotation of celestial bodies causes cyclicity that is also reflected on a smaller scale in the proper Earth This book presents the consequences of the earth s cyclic phenomena in the long term cycles which affect the origin and further evolution of sedimentary basins Basin development Cyclicity Examples from the world

South Pacific Sedimentary Basins Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**South Pacific Sedimentary Basins**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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