
Carnarvon Basin Geoscience Australia

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A Revised Structural Framework for Frontier Basins on the Southern and Southwestern Australian Continental Margin
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Geology and Petroleum Potential of the Gascoyne Platform Southern Carnarvon Basin Western Australia
Geological Cross-section Across the Offshore Northern Carnarvon Basin
Report
Upper Cretaceous Ammonites from the Carnarvon Basin of Western Australia
The Exmouth Plateau
Petroleum Geology of the Bass Basin--interpretation Report
Permian-Carboniferous Geology of the Northern Perth and Southern Carnarvon Basins, Western Australia
Geological Framework of the Outer Exmouth Plateau and Adjacent Ocean Basins

MAXWELL BYRON

Bulletin - Geological Survey of Western Australia National Gallery of Australia

The Geology of Australia provides an introduction to geology, set within the Australian context.

Petroleum Geology of the Peedamullah Shelf and Onslow Terrace, Northern Carnarvon Basin, Western Australia Elsevier

The Australian Continent: A Geophysical Synthesis is designed to provide a summary of the character of the Australian continent through the extensive information available at the continental scale, as a contribution to the understanding of Australia's lithospheric architecture and its evolution. The results build on the extensive databases assembled at Geoscience Australia, particularly for potential fields, supplemented by the full range of seismological information, mostly from The Australian National University. To aid in cross comparison of results from different disciplines, information is presented with a common projection and scales.

The Geology of Australia Cambridge University Press

The Geological Evolution of Australia and New Zealand focuses on the stratigraphy of Australia and New Zealand. This compendium covers the stratigraphy, paleogeography, and paleontology of various systems, including the Precambrian, Cambrian, Ordovician, Silurian, Devonian, and Carboniferous systems. Tectonism and igneous activity of these systems are also examined in this collection. Other systems considered are the Permian, Triassic, Jurassic, Cretaceous, Tertiary, and Quaternary systems. This book will be invaluable to archeologists, historians, researchers, and academicians interested in the stratigraphy of Australia and New Zealand, as well as those who wish to study the rock formation of their respective location.

Field Guide for the Carnarvon Basin Oxford University Press, USA

This book gives a new global perspective to the Phanerozoic timescale, by bringing together extensive Australian and overseas research on biostratigraphy, geochronology and magnetostratigraphy. For the first time, correlations are established between Australian and European biozonal schemes for the entire Phanerozoic, by integrating local and international biozones, isotopic ages, and magnetic polarity intervals. The compilation relies on tie points using tightly constrained isotopic and biostratigraphic ages. It is the first Phanerozoic scale whose time calibration is heavily weighted by modern application of isotopic dating of the 1980s and 1990s, especially variants of $^{40}\text{Ar}/^{39}\text{Ar}$ and U/Pb zircon-dating, which have radically rescaled some parts of geologic time. An Australian Phanerozoic Timescale gives the essential framework for resource exploration, geologic modelling, and reconstruction of past environments and land-sea configurations during the last 545 million years of earth history. The book comes with 12 extended charts (size 650 x 190 mm) boxed together.

Summary of Data and Results, Carnarvon Basin, Western Australia: Wandagee Ridge Seismic Survey, Salt Marsh Seismic Survey of West Australian Petroleum Pty Limited ANU Press

"The Houtman Sub basin is an under-explored region of the northern Perth Basin, offshore Western Australia. Only three wells have been drilled in the southern part of the sub-basin, while the northern part remains an exploration frontier. Adjacent areas of the Perth Basin are proven hydrocarbon provinces with a long and continuing history of exploration, discovery and production. New seismic reflection data, obtained by Geoscience Australia in 2014-15 (GA-349) under the Australian government's precompetitive data acquisition program, has been used to reassess the tectonic evolution, structural architecture, major depositional phases and petroleum prospectivity of this frontier basin. Interpretation of these data has enabled mapping of the Moho, basement, pre-rift sequences and major syn rift sequences, along with the creation of a 3D geological model covering the survey area. As a result, this study has significantly reduced the level of exploration risk in the northern Houtman Sub-basin. Seismic interpretation, integrated with potential field modelling, shows a large variation in crustal structure beneath the study area."--Online abstract.

The Phanerozoic of the Perth and Carnarvon Basins, Western Australia

"Oil and gas discoveries in Australia's offshore basins are concentrated on the North West Shelf (Northern Carnarvon, Browse and Bonaparte basins) and Bass Strait (Gippsland, Otway and Bass basins). While discoveries have been made in a few regions outside these areas (e.g. Perth Basin), a large proportion of Australia's offshore basins remain exploration frontiers. However, the decline in oil production from the North West Shelf and Bass Strait basins since 2000 has led to an increasing exploration interest in the frontier basins. In order to improve our knowledge of the offshore frontiers and encourage exploration to these areas, from 2003-2011, Geoscience Australia was funded by the Australian Government to undertake a series of pre-competitive data acquisition and analyses programs in frontier basins around the Australian margin. This Record presents a comprehensive inventory of the geology, petroleum systems, exploration status and data coverage for 35 frontier basins, sub-basins and provinces, that draws on the results of those pre-competitive data programs, as well as exploration results and the geoscience literature. The Record also provides an assessment of the critical science and exploration questions and issues for each area. The results of each basin assessment are summarised in a prospectivity ranking. The availability of data and level of knowledge in each area is reflected in a confidence rating for that ranking. While the prospectivity of some areas is widely acknowledged to be high (e.g. Ceduna Sub-basin), the perception of prospectivity in many basins is negatively affected by the amount or quality of data available; in these basins, the acquisition of new data or targeted research could make a significant difference to the understanding of petroleum potential and likelihood of success. Therefore, recommendations for future work that could assist in addressing key knowledge or data gaps are included in each basin assessment." -- Online abstract.

Geology and Petroleum Potential of the Abrolhos Sub-basin, Western Australia

"A large proportion of Australia's onshore sedimentary basins remain exploration frontiers. Industry interest in these basins has recently increased due to the global and domestic energy demand, and the growth in unconventional hydrocarbon exploration. In 2016, Geoscience Australia released an

assessment of eight central Australian basins that summarised the current status of geoscientific knowledge and petroleum exploration, and the key questions, for each basin. This publication provides a comprehensive assessment of the geology, petroleum systems, exploration status and data coverage for additional three basins in western and central Australia: the Canning, Perth and Officer basins. The Perth and Canning basins are producing petroleum basins, however, they may be regarded as frontier basins for unconventional hydrocarbon resources. The Officer Basin is a large, unproven frontier basin which has seen little exploration to date."--Online abstract.

Carnarvon Basin (Barrow Sub-basin) Geochemical Calibration Survey

CD-ROM also contains Appendices A-M.

Western Australia Atlas of Petroleum Fields

Permian Stratigraphy and Palynology of the Carnarvon Basin, Western Australia

Silurian-Devonian Petroleum Source-rock Potential and Thermal History, Carnarvon Basin, Western Australia

Related with Carnarvon Basin Geoscience Australia:

- Yakuza 7 Management Guide : [click here](#)

Structure and Petroleum Potential of the Southern Merlinleigh Sub-basin, Carnarvon Basin, Western Australia

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