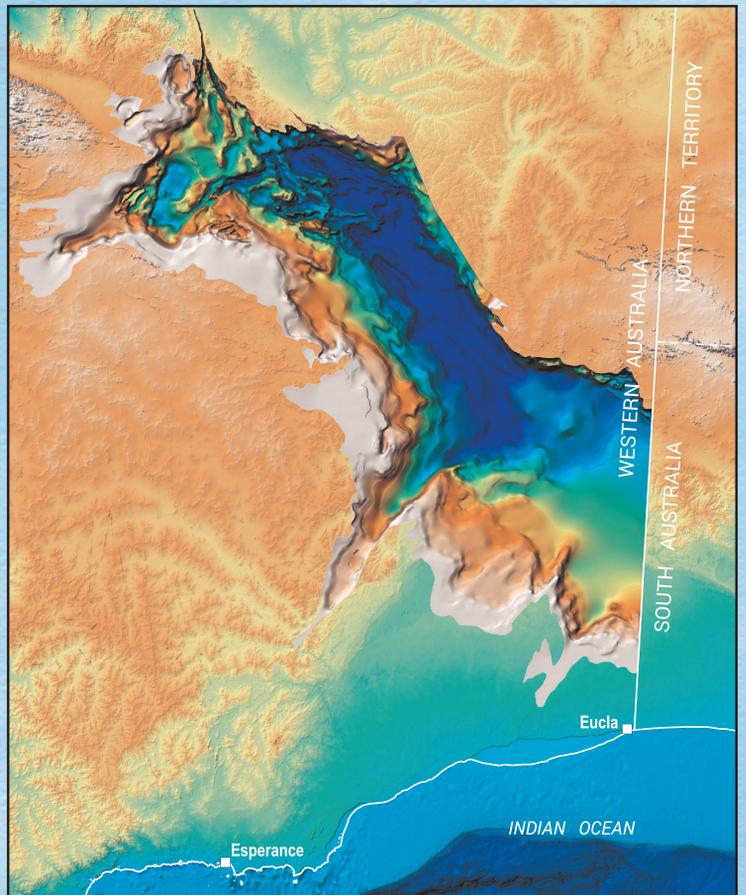


# SEEBASE PROJECT

## Western Officer Basin and Perth Basin SEEBASE reports

In 2005, Frogtech Geoscience completed the Structurally Enhanced View of Economic BASEment (OZ SEEBASE) project, which resulted in a continental-scale depth-to-basement grid highlighting the Phanerozoic basins across Australia. With the acquisition of many new potential field, seismic and well datasets, and more recent GSWA seismic interpretation since then, the Geological Survey of Western Australia (GSWA) contracted Geognostics Australia Pty Ltd to revise the SEEBASE model of the western Officer Basin (within State jurisdiction) and the Perth Basin, which also includes offshore areas in Commonwealth Waters.

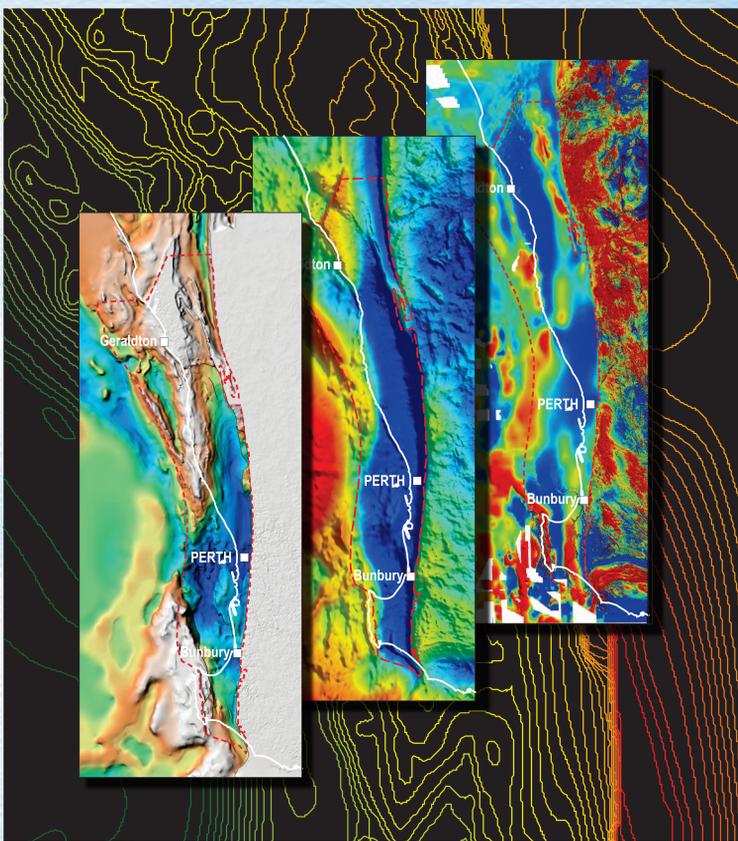


Depth-to-basement map of 2022 SEEBASE project of the western Officer Basin, superimposed on the digital elevation model



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**S**HEME

The two SEEBASE projects have markedly increased the resolution of the depth-to-basement model compared to the 2005 version, and have improved identification of major structures, basement faults, crustal architecture and basement composition. These new products form a valuable pre-competitive dataset for both the minerals and energy industries.



The depth-to-basement, Bouguer gravity anomaly and reduced-to-pole magnetic images from the 2022 Perth Basin SEEBASE project (left to right)

The western Officer Basin and Perth Basin SEEBASE reports (Reports 235 and 236 respectively) are available on eBookshop. The digital layers and ArcMap projects are available as USB packages and can be ordered via eBookshop. Digital layers include the various interpreted basement-related layers, and various processed and filtered magnetic and gravity datasets. The interpreted basement layers will eventually be added to the Energy Systems Atlas, an interactive online map viewer available via the Western Australian Petroleum and geothermal Information Management System (WAPIMS) website.



Western Officer Basin SEEBASE Report 235



Perth Basin SEEBASE Report 236



WAPIMS

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Government of Western Australia  
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