

# Line drawings of interpreted regional seismic profiles, offshore Northern & Northwestern Australia

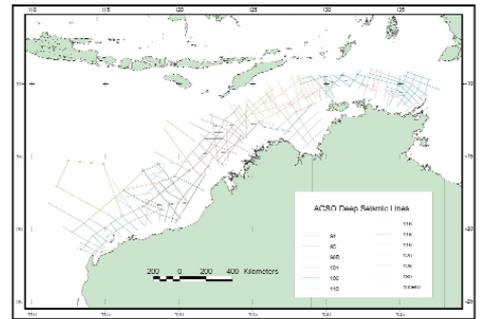
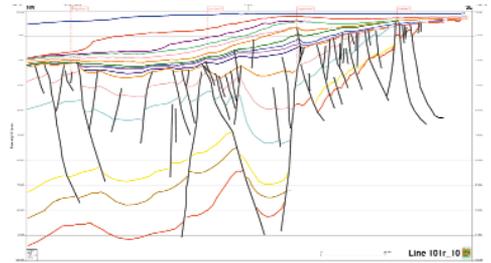
GEOSCIENCE Australia

## Record 2001/36

In the 1990s, Geoscience Australia recorded approximately 35,000 km of regional, mostly deep (commonly 15s TWT record length), 2D seismic reflection data along the northern and north-western continental margin of Australia from North West Cape in the south to the eastern Arafura Sea in the north. These data were collected primarily to provide a structural and tectonic framework to assist petroleum exploration in the region, as well as an aid to understanding the margin's geological evolution.

This Record provides in a graphical form, line-drawing interpretations of all 168 lines making up the regional seismic grid. In addition to interpreted horizons and faults, the line drawings show ties to key petroleum exploration wells and line intersections<sup>1</sup>. They provide a rapid and convenient overview of the structural and stratigraphic architecture of the region.

The Record is a 'pdf' document and complements the earlier release by Geoscience Australia of ASCII files of digital data of the interpreted horizons and faults<sup>2</sup>. The 'pdf' line drawings can be selected either by clicking on the desired line on a base map, or by selecting from a bookmark "pick-list". In addition to being supplied in a 'pdf' format, each line drawing is provided as a postscript file to assist with plotting.



Horizons that are routinely interpreted through the grid include: water bottom, late Miocene, base Miocene, mid Oligocene, base Eocene, base Tertiary, Turonian, Aptian, Valanginian, base Cretaceous, Callovian, base Jurassic/top Triassic, mid Triassic, near top Permian, late Carboniferous, and "basement". These are supplemented by other horizons as determined by the local geology, for example, mid Carboniferous, intra-Devonian, and mid/late Cambrian in the Arafura Basin, and early and mid Carboniferous in the Petrel Sub-basin.



<sup>1</sup> Spot point locations are not included. Details of the costs involved in purchasing the seismic trace data that underlie the interpretations are available from Geoscience Australia's marketing agents, TGS-Nopec (phone: +61 8 9480 0021, fax: +61 8 9321 5312, e-mail: rachelm@tgsnopec.com.au)

<sup>2</sup> GACAT numbers 35234, 35237, 35239-35245, 35247-35249, 35252.

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