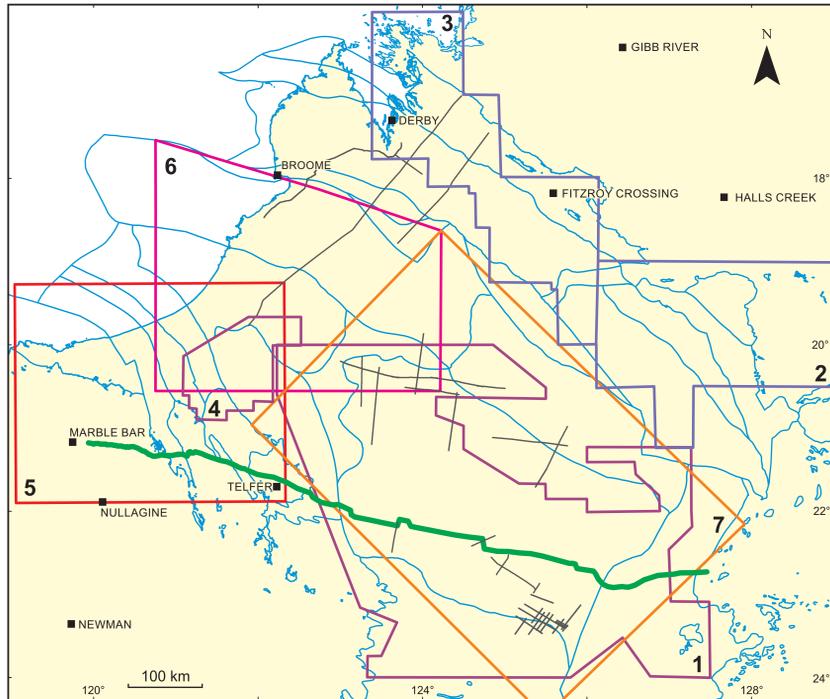


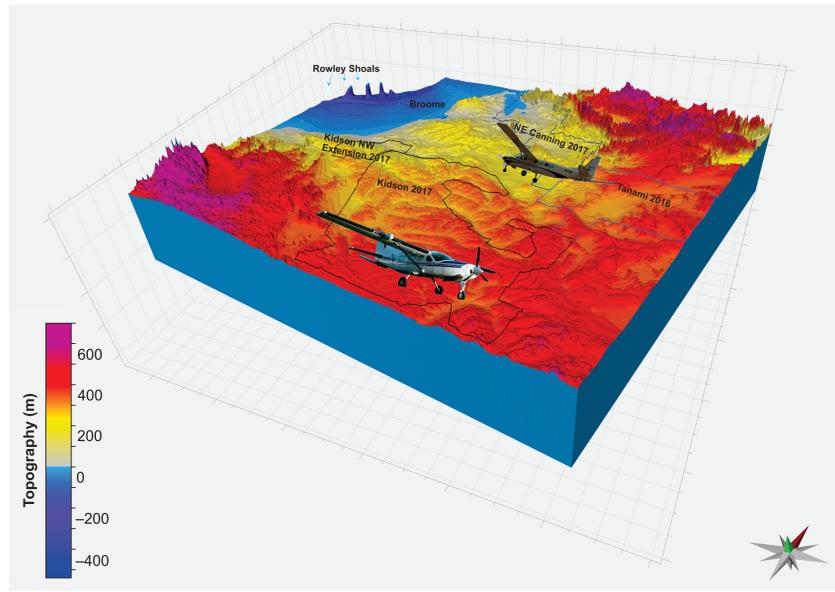
GEOPHYSICAL PROJECTS CANNING BASIN

Project overview in the Canning Basin



- 1** Kidson aerogravity in 2017
- 2** Tanami aerogravity in 2017
- 3** Northeast Canning aerogravity in 2017
- 4** Kidson Northwest Extension aerogravity in 2017
- 5** Interpretation of the southwestern Canning Basin in 2017
- 6** Interpretation of the Broome–Willara in 2018
- 7** Planned interpretation of the Crossland–Kidson in 2020
- Town
- Reprocessing project in 2018
- Seismic acquisition across the Kidson Sub-basin in 2018

Aerogravity surveys

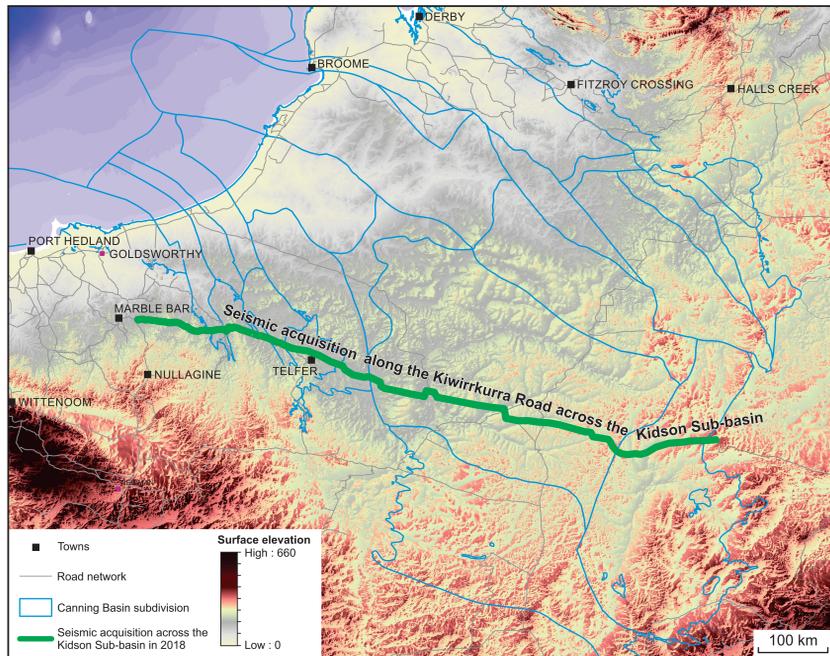


Aircraft photos from CGG Multi-physics

- Northeast Canning and Tanami aerogravity: GT-2A airborne gravimetry system, 2.5 km line spacing, flying at a constant altitude of 830 m above sea level (200–600 m above ground level)
- Kidson and Northwest extension aerogravity: Full Spectrum Falcon system, 2.5 km line spacing, flying at 120 m above ground level, simultaneous acquisition of Falcon gravity gradiometer and sGrav gravity data

ID	Area/Name	Method	Configuration	Size (line-km)	Status	Start	End	Release
1	Kidson 2017	Air Grav	2.5 km, N-S	70 000	Finished	Jul-17	May-18	Jul-18
2	Tanami 2016	Air Grav	2.5 km, N-S	26 000	Finished	Jun-17	Aug-17	Apr-18
3	NE Canning 2017	Air Grav	2.5 km, N-S	24 000	Finished	Aug-17	Nov-17	Apr-18
4	Kidson NW Extension 2018	Air Grav	2.5 km, E-W	5500	Finished	Mar-18	Apr-18	Jul-18

Kidson seismic acquisition



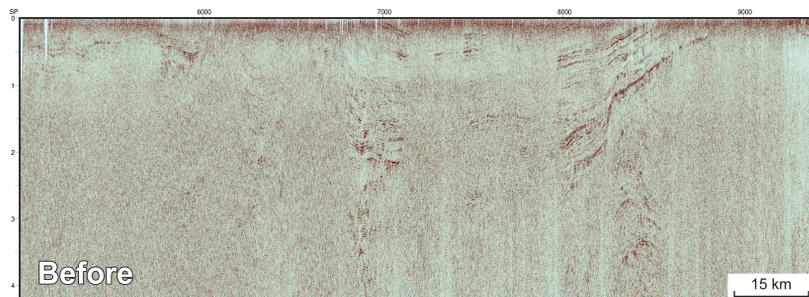
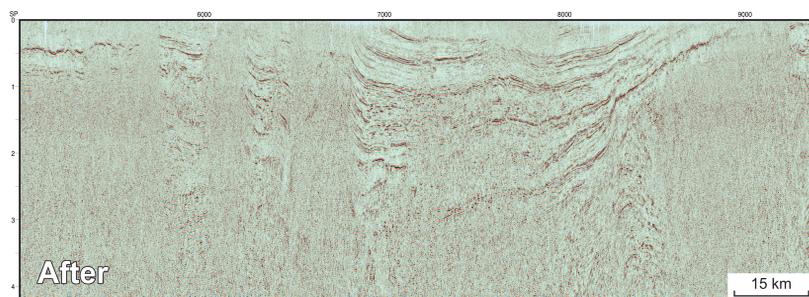
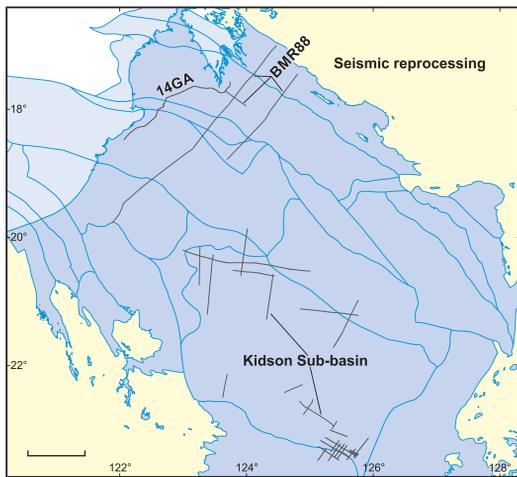
The Kidson seismic acquisition is a collaborative project with Geoscience Australia. It recorded a total of 872 km of 20-second reflection data along a regional east–west profile across the southern Canning Basin.

It aims to improve the understanding of the petroleum potential and structural geology of the Kidson Sub-basin of the Canning Basin where pre-existing coverage is extremely sparse.

Canning Basin seismic reprocessing

The seismic reprocessing project includes:

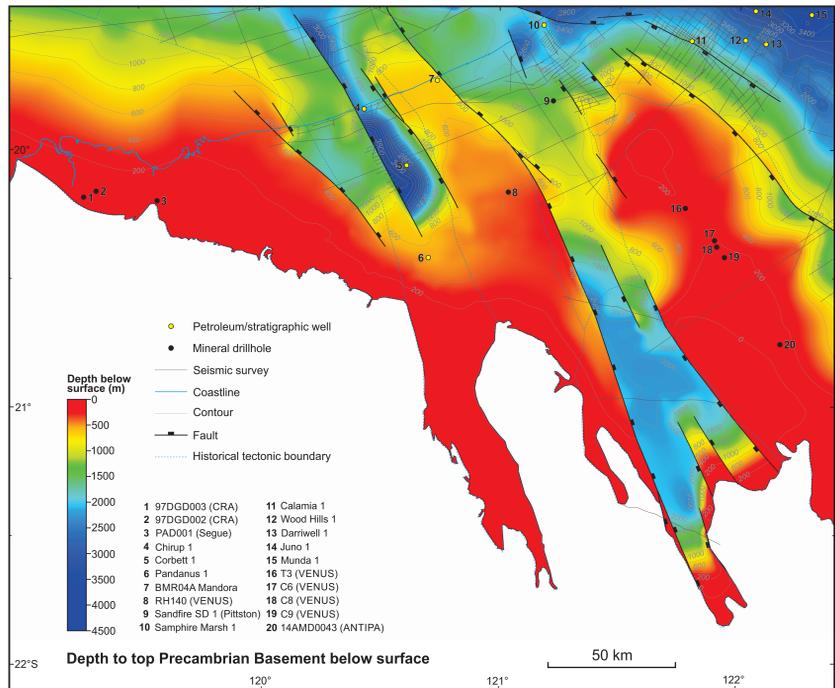
- Vintage surveys in the Kidson Sub-basin (~1400 km)
- BMR88 survey (~660 km)
- Part of Canning Coastal survey (~220 km)



2018 reprocessing result for the northern part (across the Fitzroy Trough) of the line BMR88-001

For more information, contact:
Alex Zhan (alex.zhan@dmirs.wa.gov.au)

Southwestern Canning Basin seismic interpretation

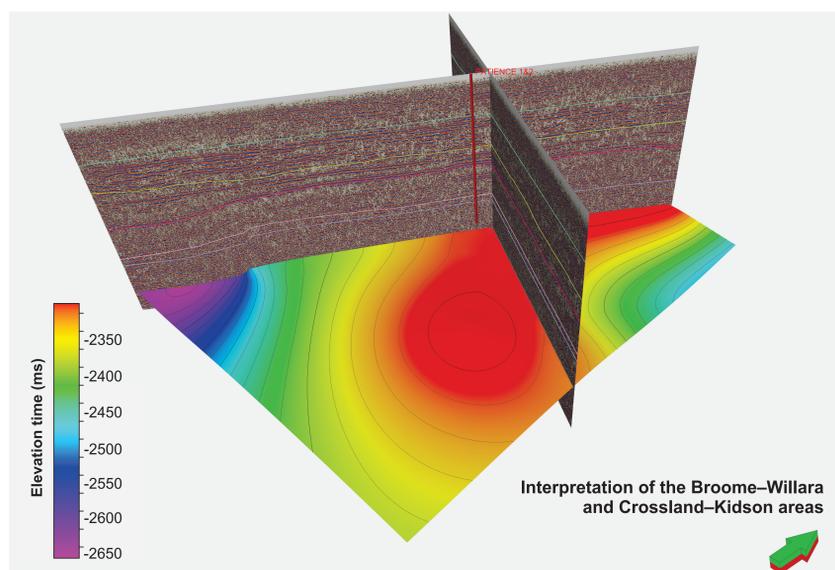
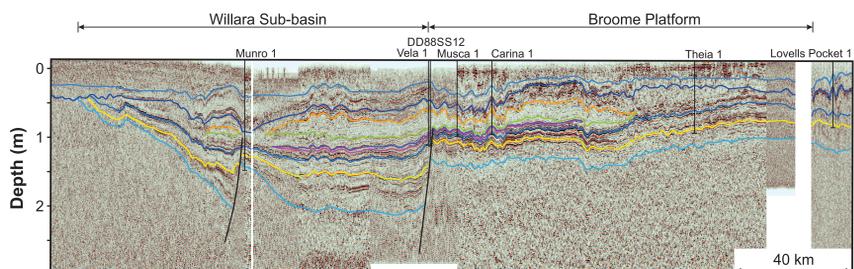


This project is complete and was released as **GSWA Report 178: A seismic interpretation of the southwestern Canning Basin, Western Australia**. The maps of three horizons (the top basement, base Permian and Jurassic unconformities) indicate that the structural complexity decreases with its ascending stratigraphic position.

The top basement horizon (figure above) is highly faulted and deformed, defining the Wallal and Waukarlycarly Embayments through substantial changes in depth.

Broome–Willara and Crossland–Kidson seismic interpretation

These two interpretation projects aim to address the structural uncertainties and map the key stratigraphic horizons: the base Phanerozoic, top Nambheet, Willara and Goldwyer Formations, top and base for two salt intervals (Minjoo and Mallowa Salts), and two pronounced unconformities (base Permian and Jurassic).



Interpretation of the Broome–Willara and Crossland–Kidson areas