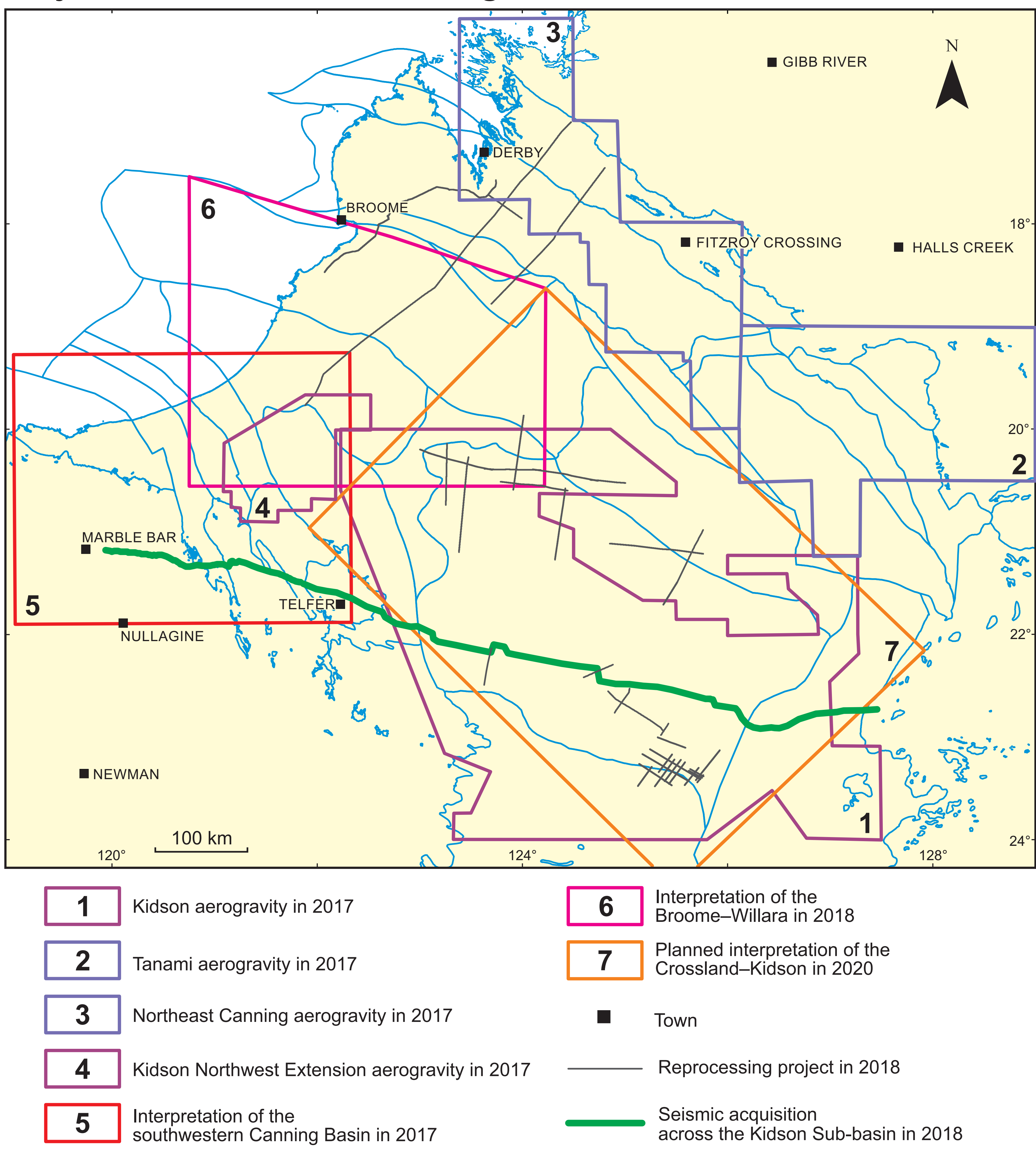


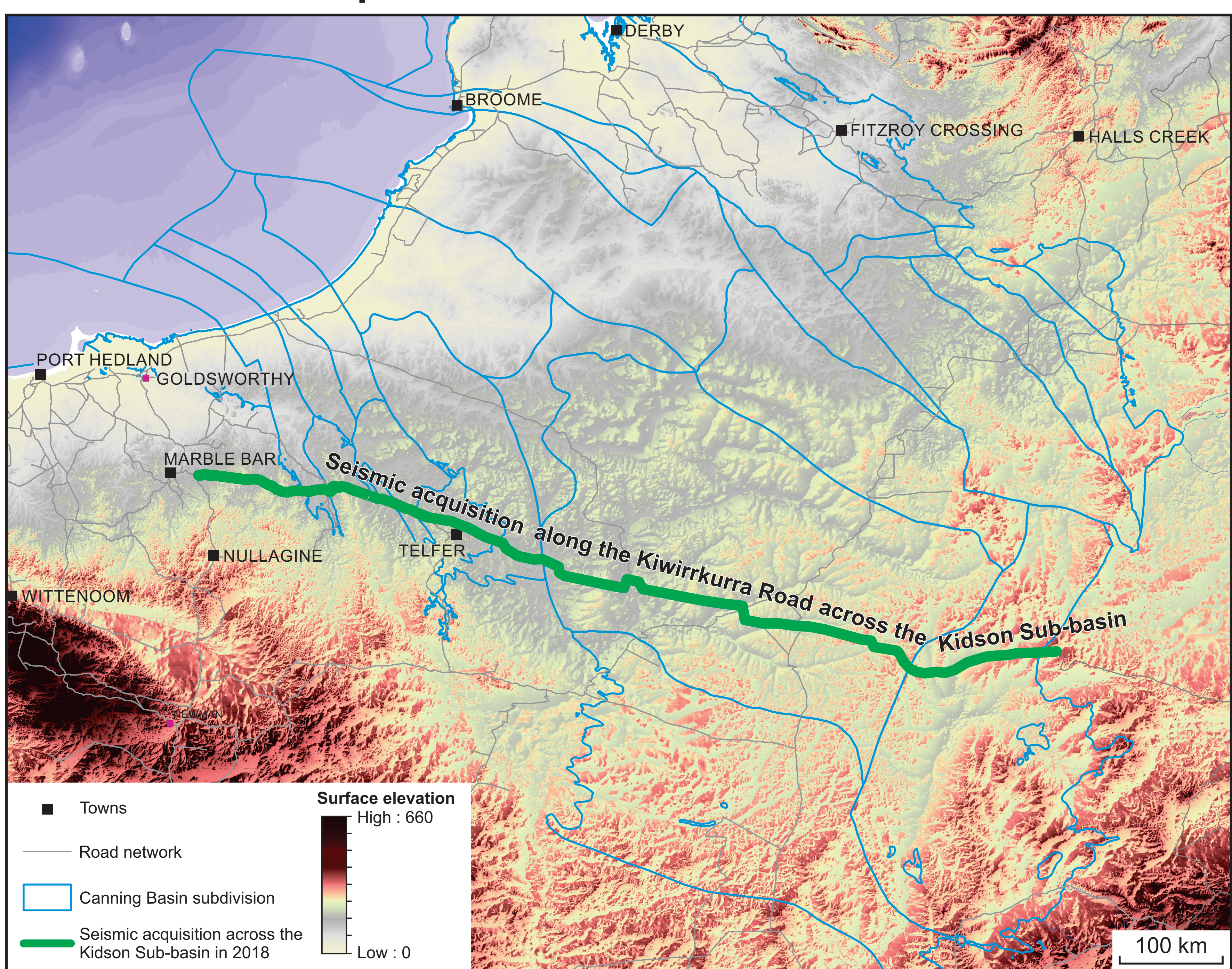
# GEOPHYSICAL PROJECTS

## CANNING BASIN

### Project overview in the Canning Basin



### Kidson seismic acquisition



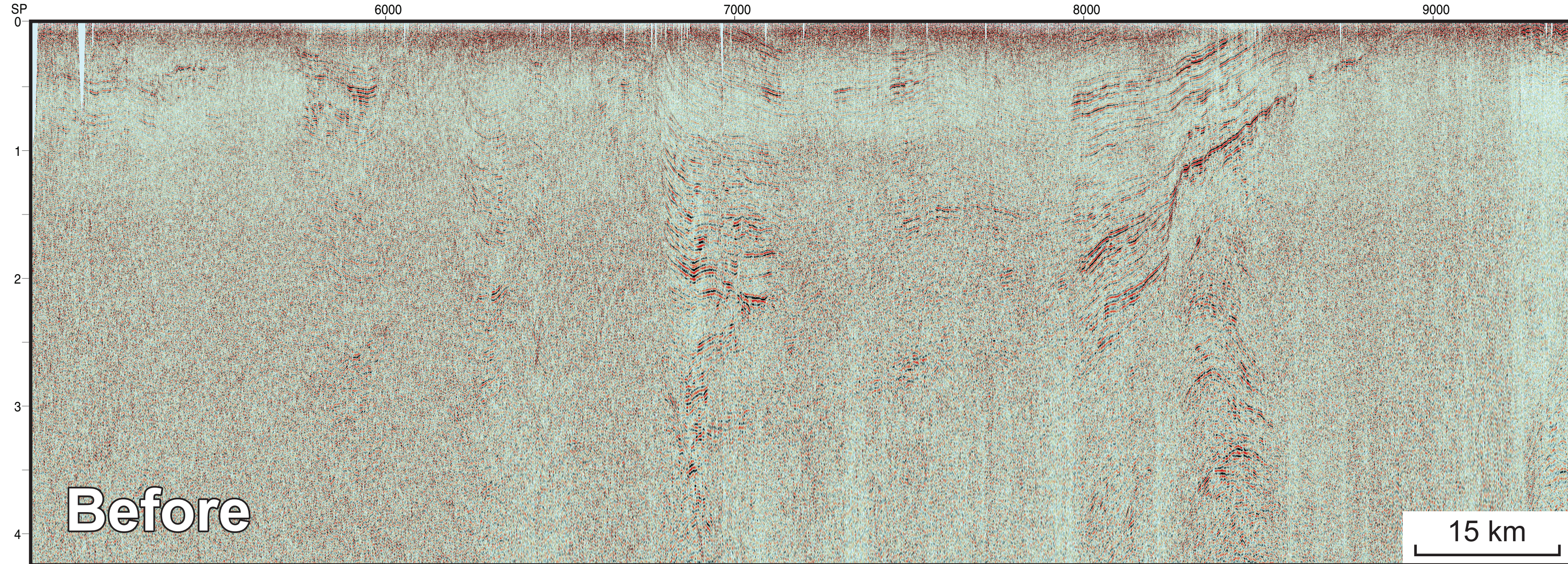
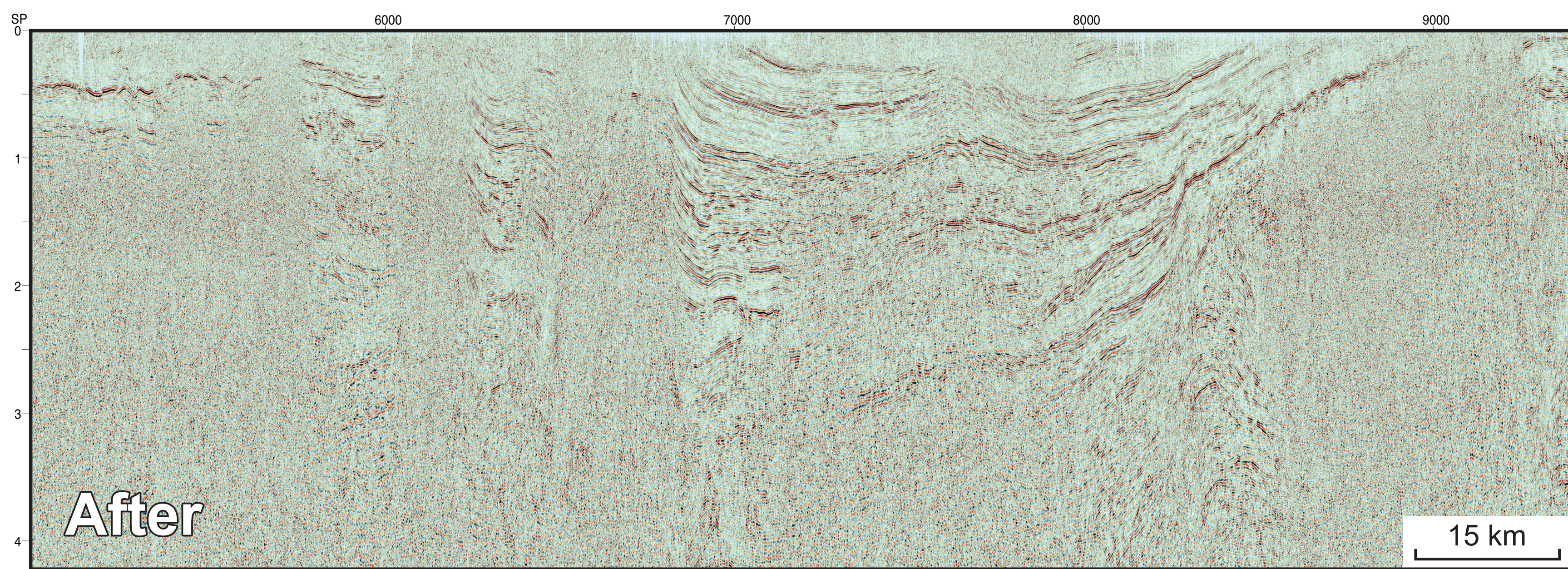
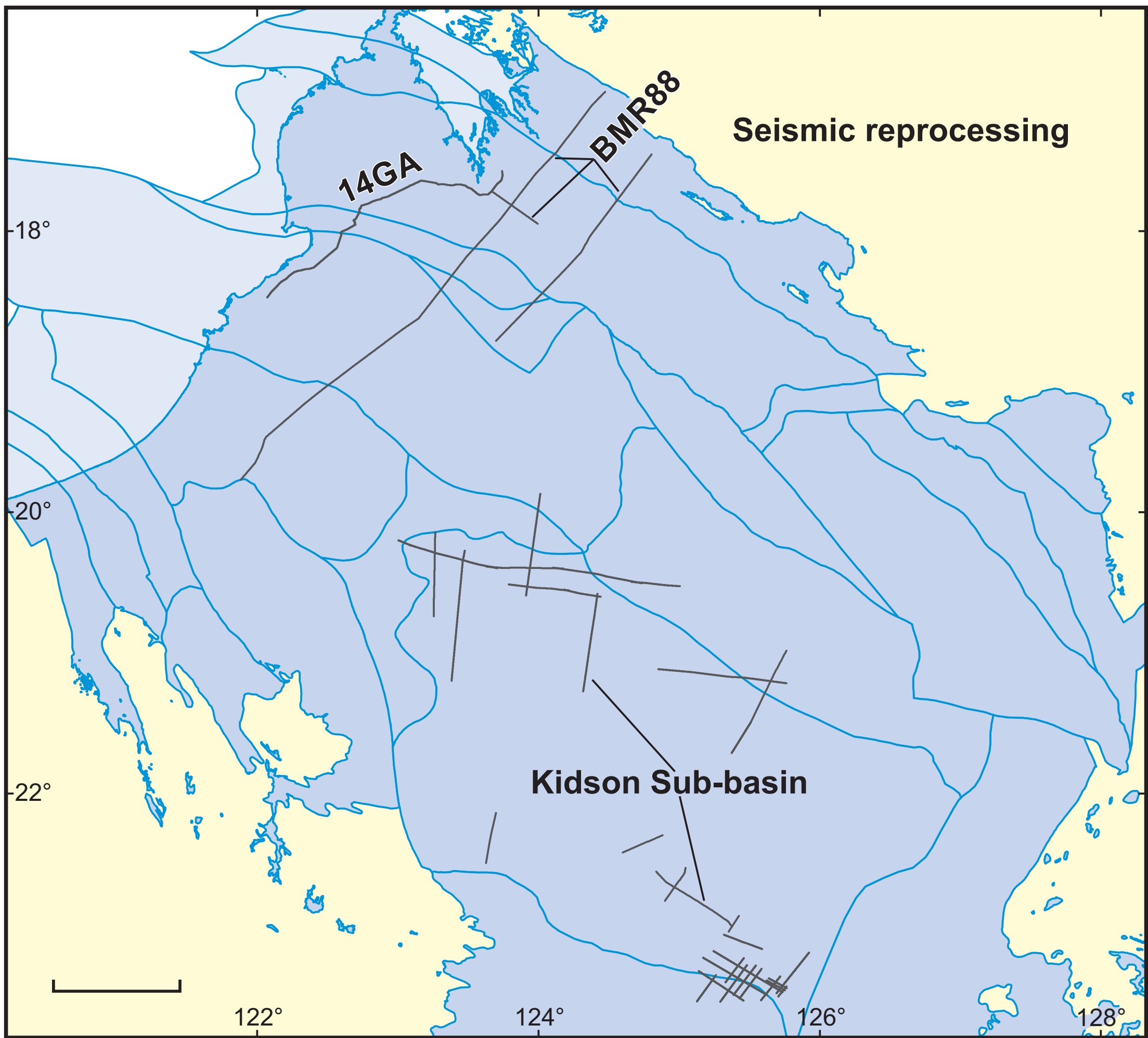
The Kidson seismic acquisition is a collaborative project with Geoscience Australia. It recorded a total of 872 km of 20-second reflection data along a regional east-west profile across the southern Canning Basin.

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:

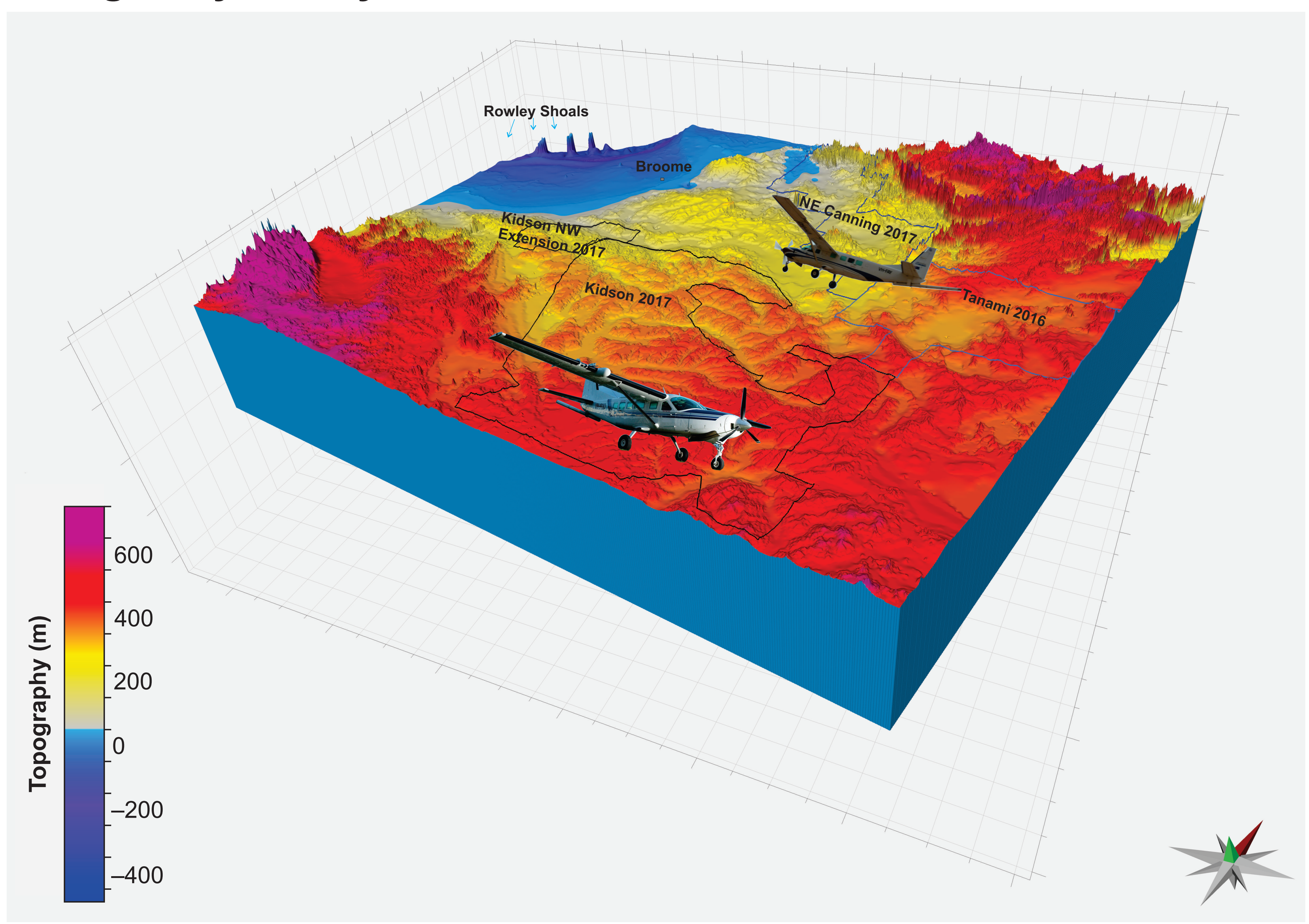
- Vintage surveys in the Kidson Sub-basin (~1400 km)
- BMR88 survey (~660 km)
- Part of Canning Coastal survey (~220 km)



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

For more information, contact:  
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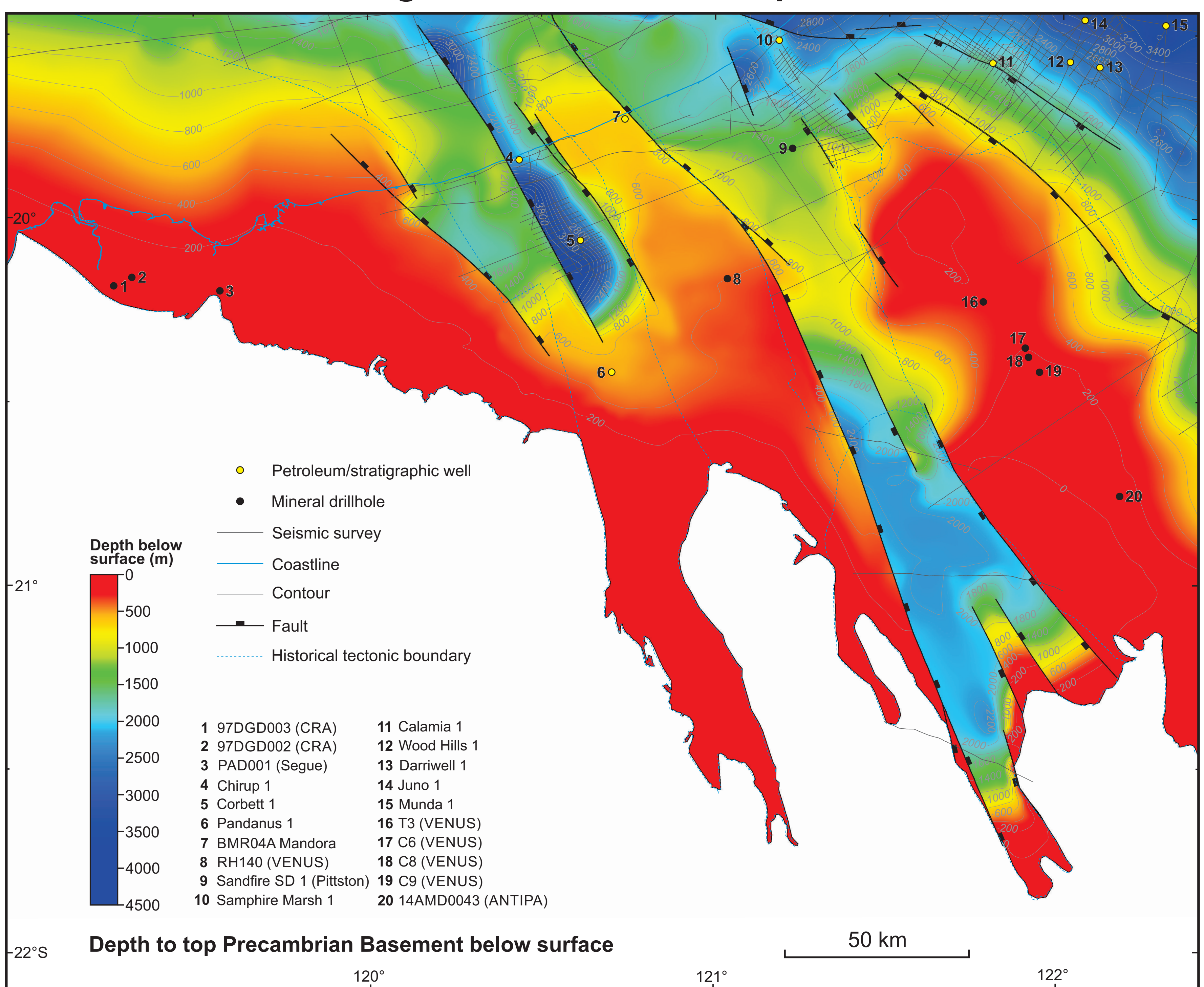
### Aerogravity surveys



- 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

### 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 Nambeet, Willara and Goldwyer Formations, top and base for two salt intervals (Minjoo and Mallowa Salts), and two pronounced unconformities (base Permian and Jurassic).

