# T98-1 & 2

## Sorell Basin

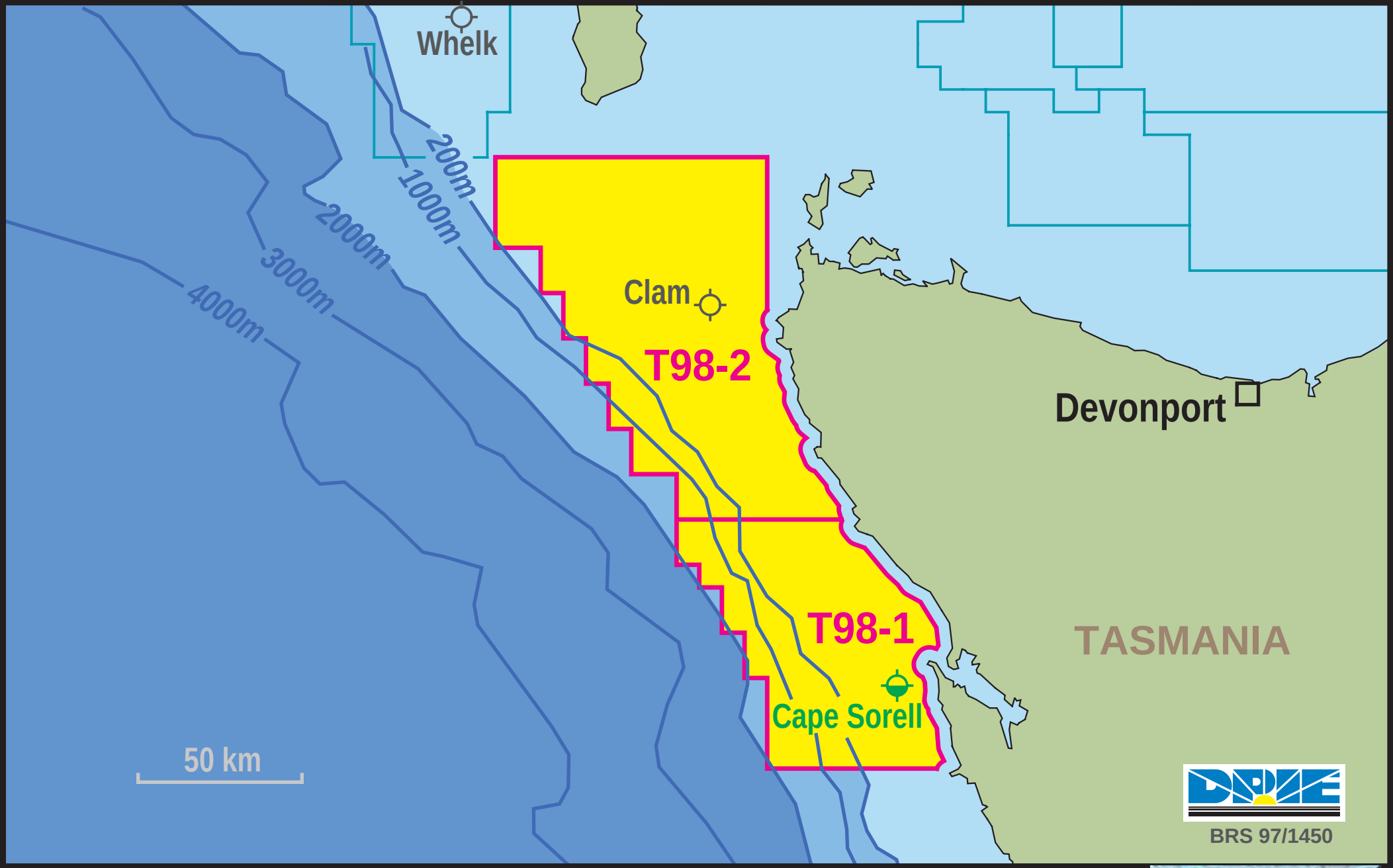

Location Map
Point Summary
Setting
Stratigraphy
Sed. Thickness
Seismic
Regional Profiles (2)
Sampling Sites
Cross Sections
Prospects and Leads



BACK

GALLERY

# SORELL BASIN

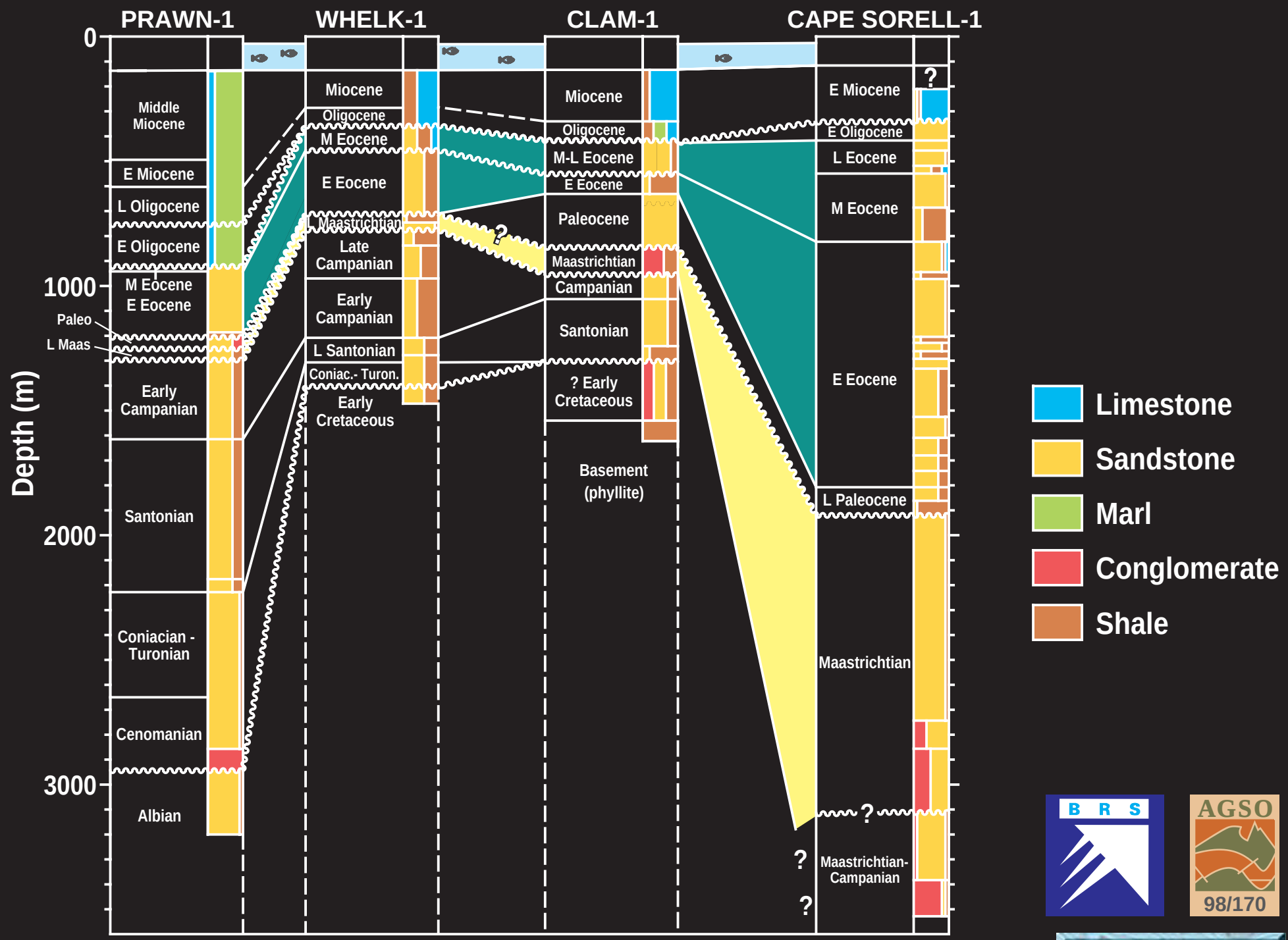


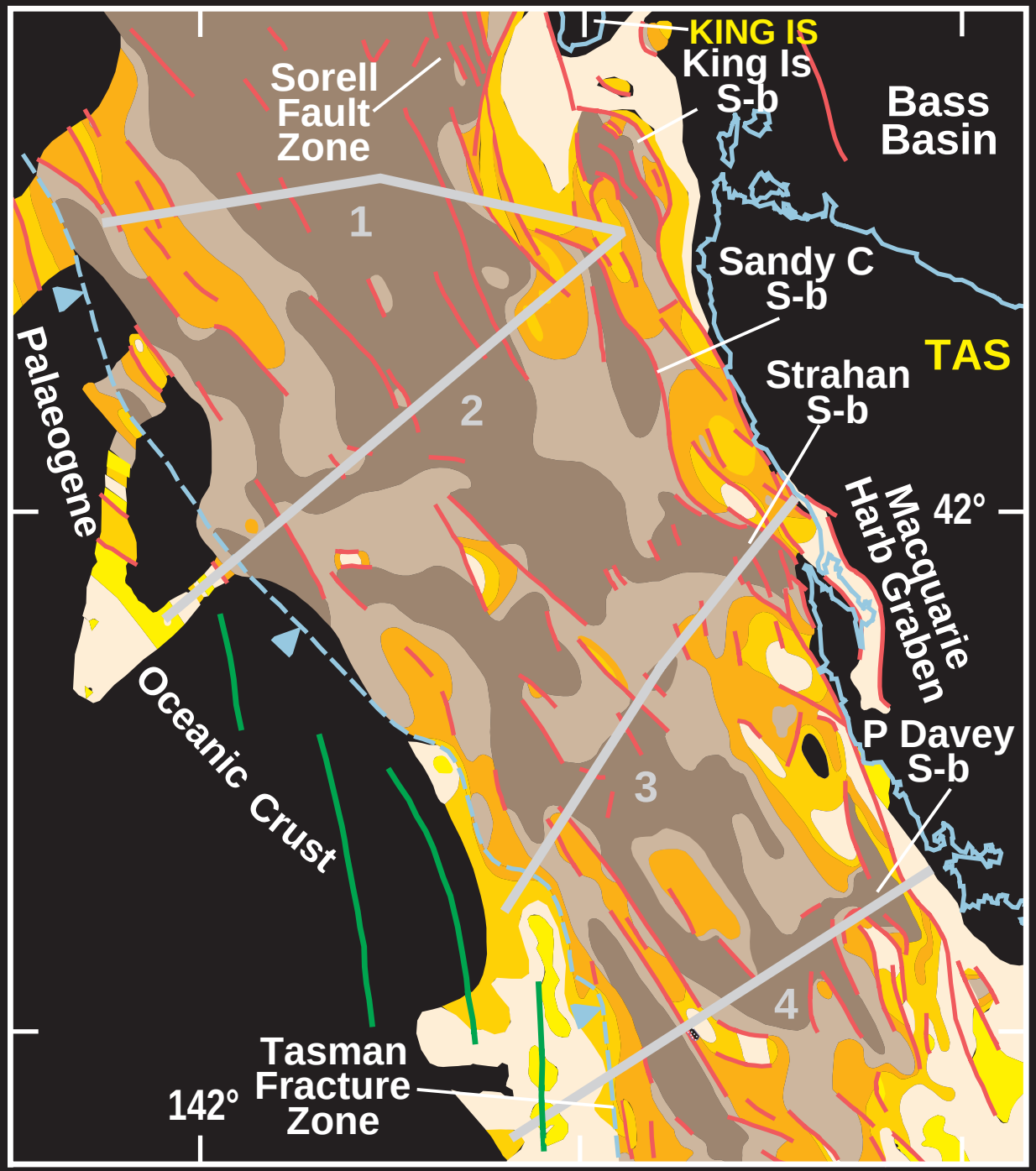
# Areas T98-1 & 2
# Sorell Basin

- Under-explored - 2 wells (1 invalid test) in over 14,000 sq km
- Prospects and leads mapped - DHI interpreted
- Live oil shows in 1 well. Thermogenic petroleum detected at sea floor
- Seismic coverage variable - sparse to 1x1.25 km grid. 1995 AGSO deep seismic survey
- Upper Cretaceous-Cainozoic Australia/Antarctica breakup sequence
- Rotated fault block/drape and stratigraphic trap potential
- Water depth mainly <200m, 1500m at western margin

AGSO 97/1370

MENU


PRAWN-1
WHELK-1
CLAM-1
CAPE SORELL-1
Depth (m)
0
1000
2000
3000
Middle Miocene
E Miocene
L Oligocene
E Oligocene
M Eocene
E Eocene
Paleo
L Maas
Early Campanian
Santonian
Coniacian - Turonian
Cenomanian
Albian
Miocene
Oligocene
M Eocene
E Eocene
L Maastrichtian
Late Campanian
Early Campanian
L Santonian
Coniac.- Turon.
Early Cretaceous
Miocene
Oligocene
M-L Eocene
E Eocene
Paleocene
Maastrichtian
Campanian
Santonian
? Early Cretaceous
Basement (phyllite)
E Miocene
E Oligocene
L Eocene
M Eocene
E Eocene
L Paleocene
Maastrichtian
Maastrichtian-Campanian
Limestone
Sandstone
Marl
Conglomerate
Shale
BRS
AGSO
98/170
MENU
fwd




# Structure & sediment thickness Sorell Basin

- No sediment
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0 twt (s)

- COB
- Fault
- Lineation

100 km

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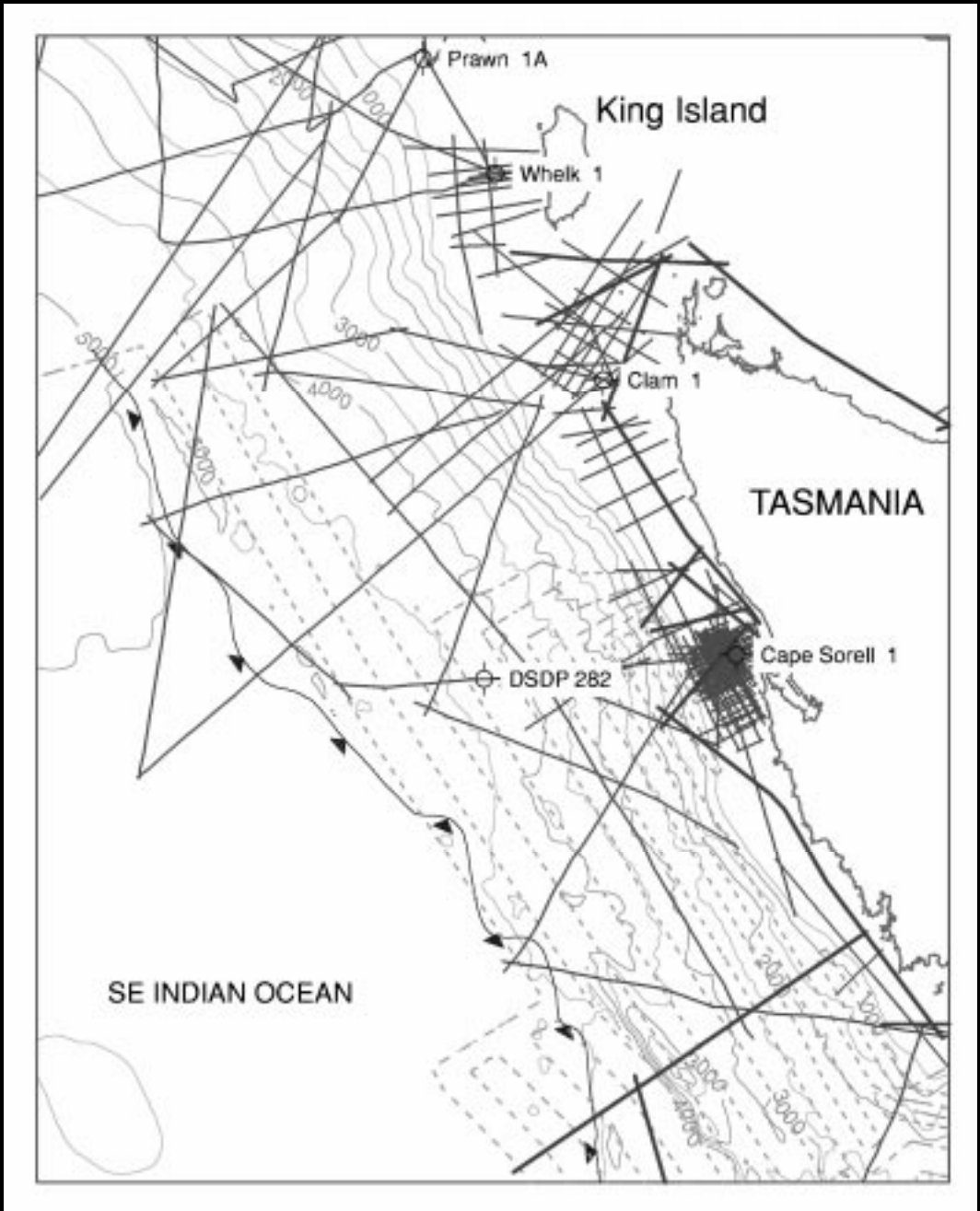


# MULTICHANNEL SEISMIC

100 km

bwd MENU fwd

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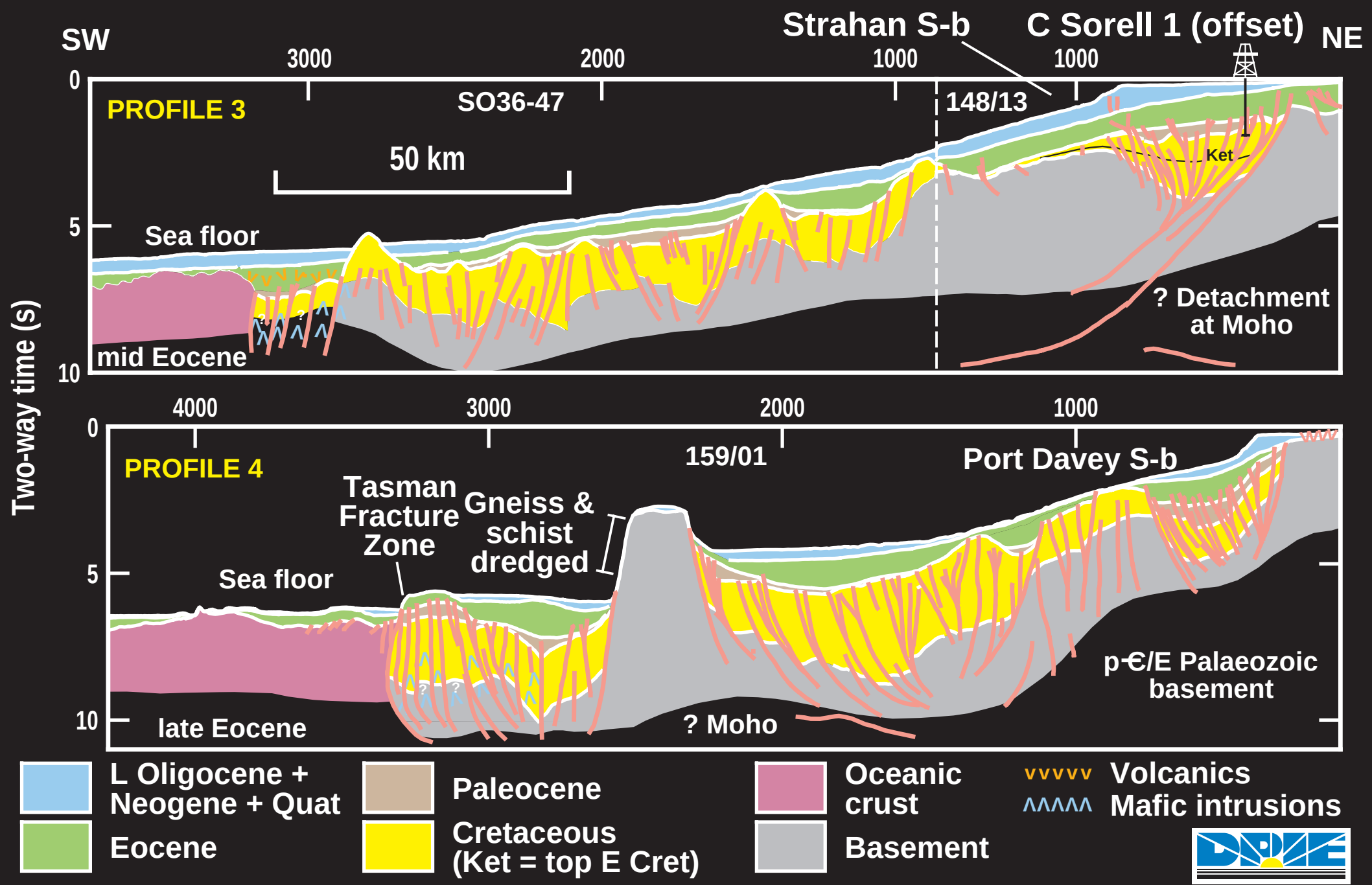


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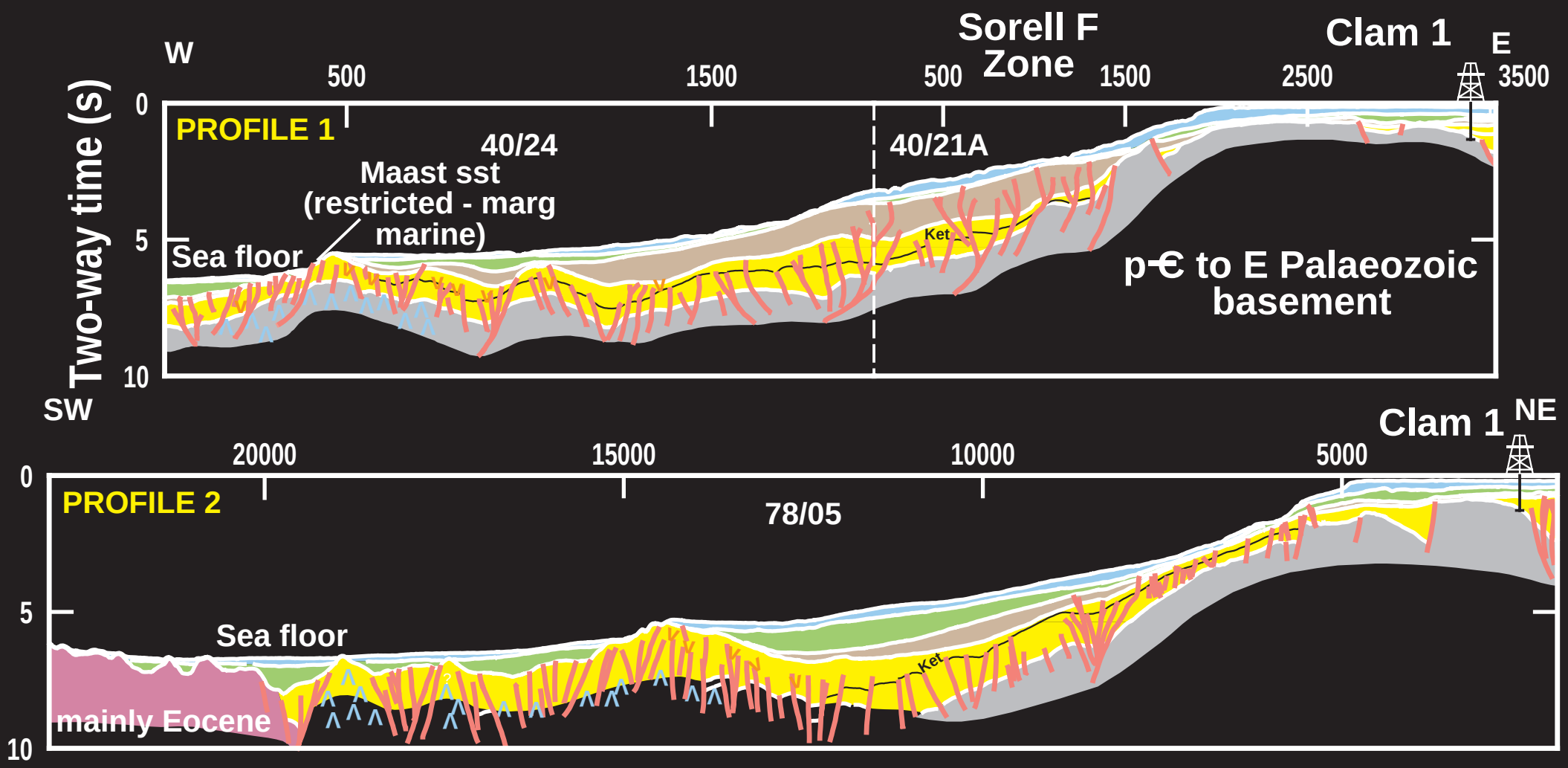


L Oligocene + Neogene + Quaternary

Eocene

Paleocene

Cretaceous (Ket = top E Cret)

Oceanic crust

Basement

vvvvv Volcanics

ΛΛΛΛΛ Mafic intrusions

50 km

AGSO 97/1369

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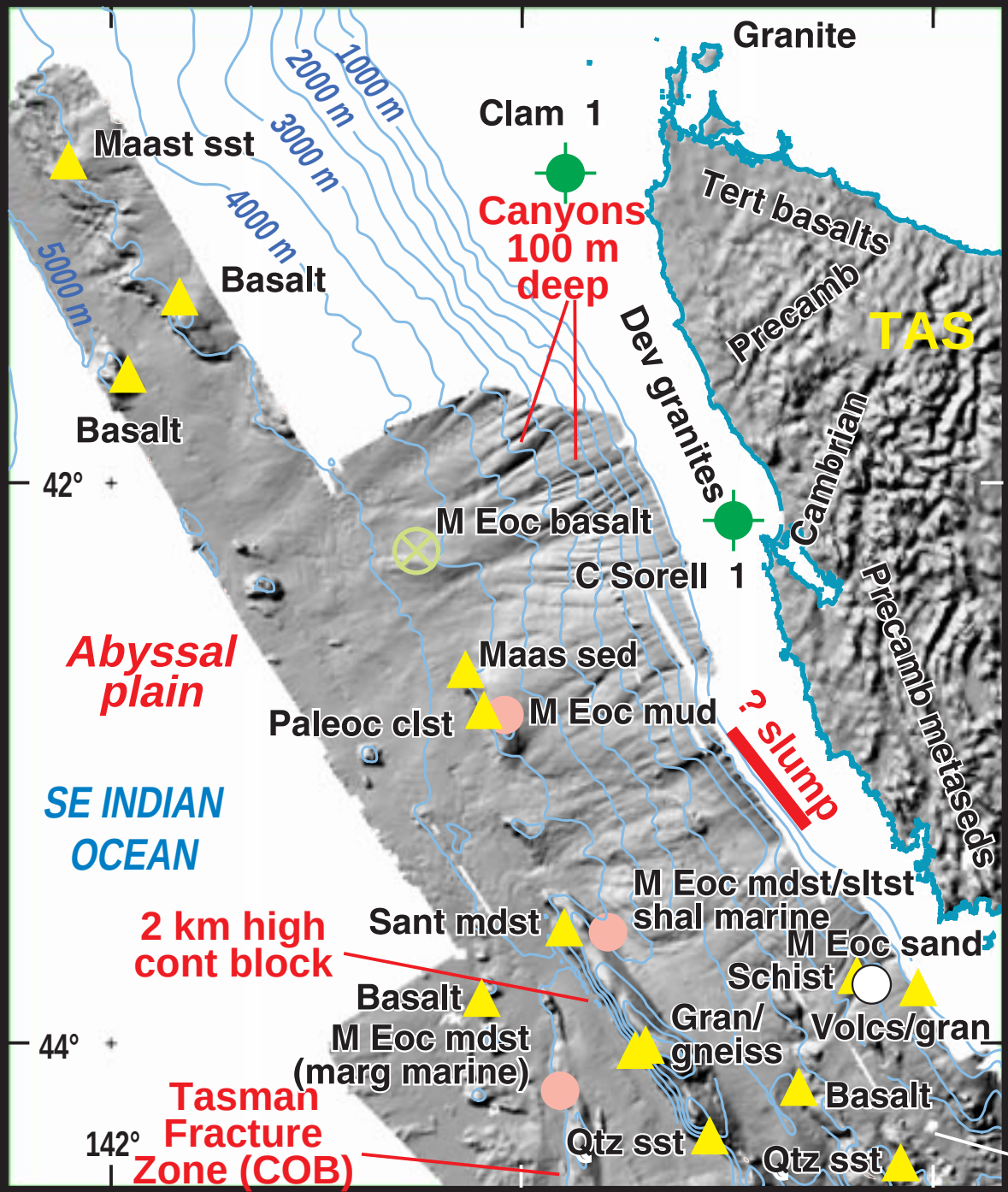
# Sampling sites W Tasmania




- Dredge
- Gravity core
- Piston core
- DSDP 282

100 km

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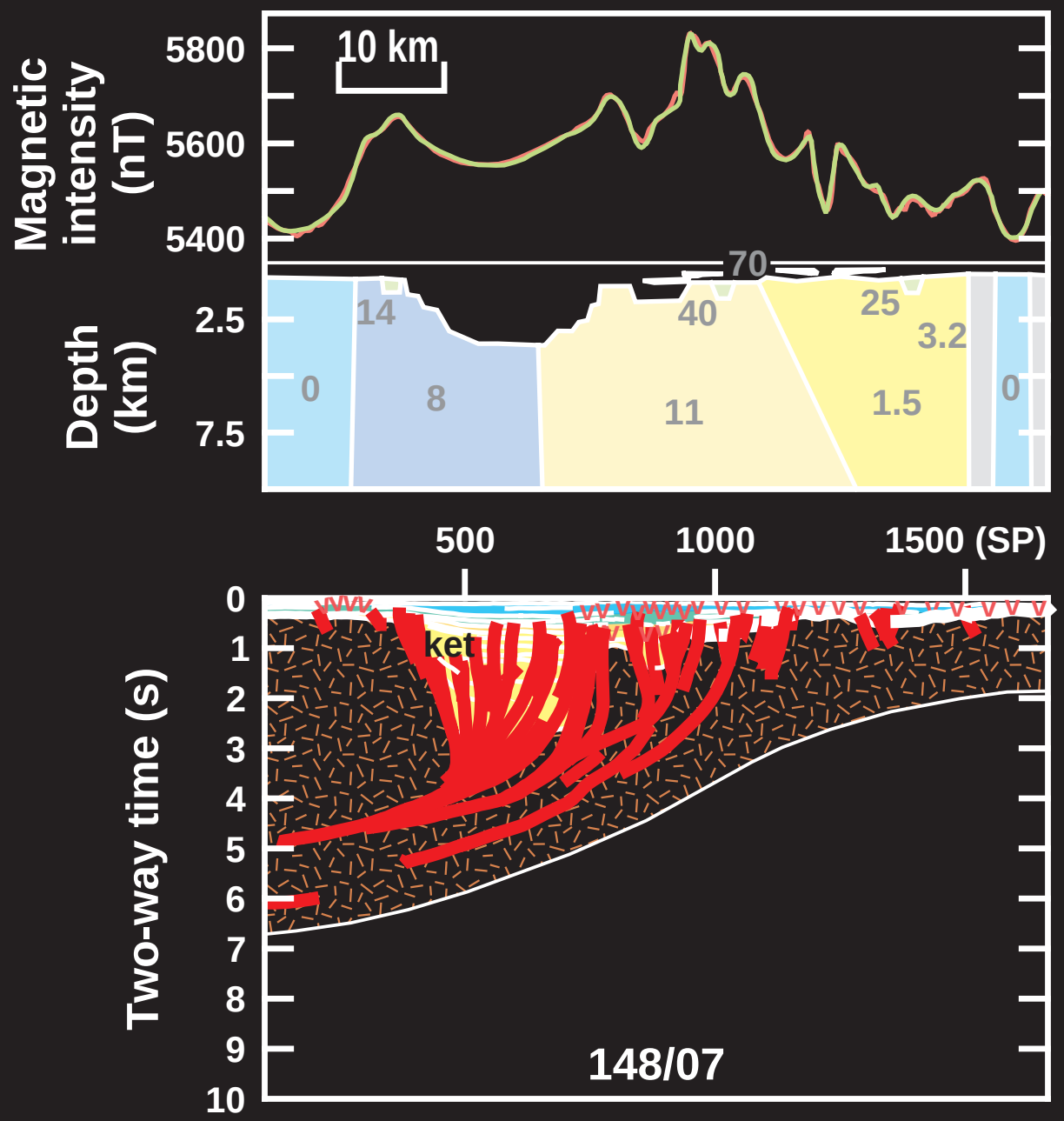
# King Island Sub-basin
## Profile 9




Susceptibility in $10^{-3}$ SI units

Observed — Calculated

- L Oligocene + Neogene + Quaternary
- Eocene
- Paleocene
- Cretaceous (Ket = top E Cret)
- Basement
- vvvv Volcanics

AGSO 97/1368

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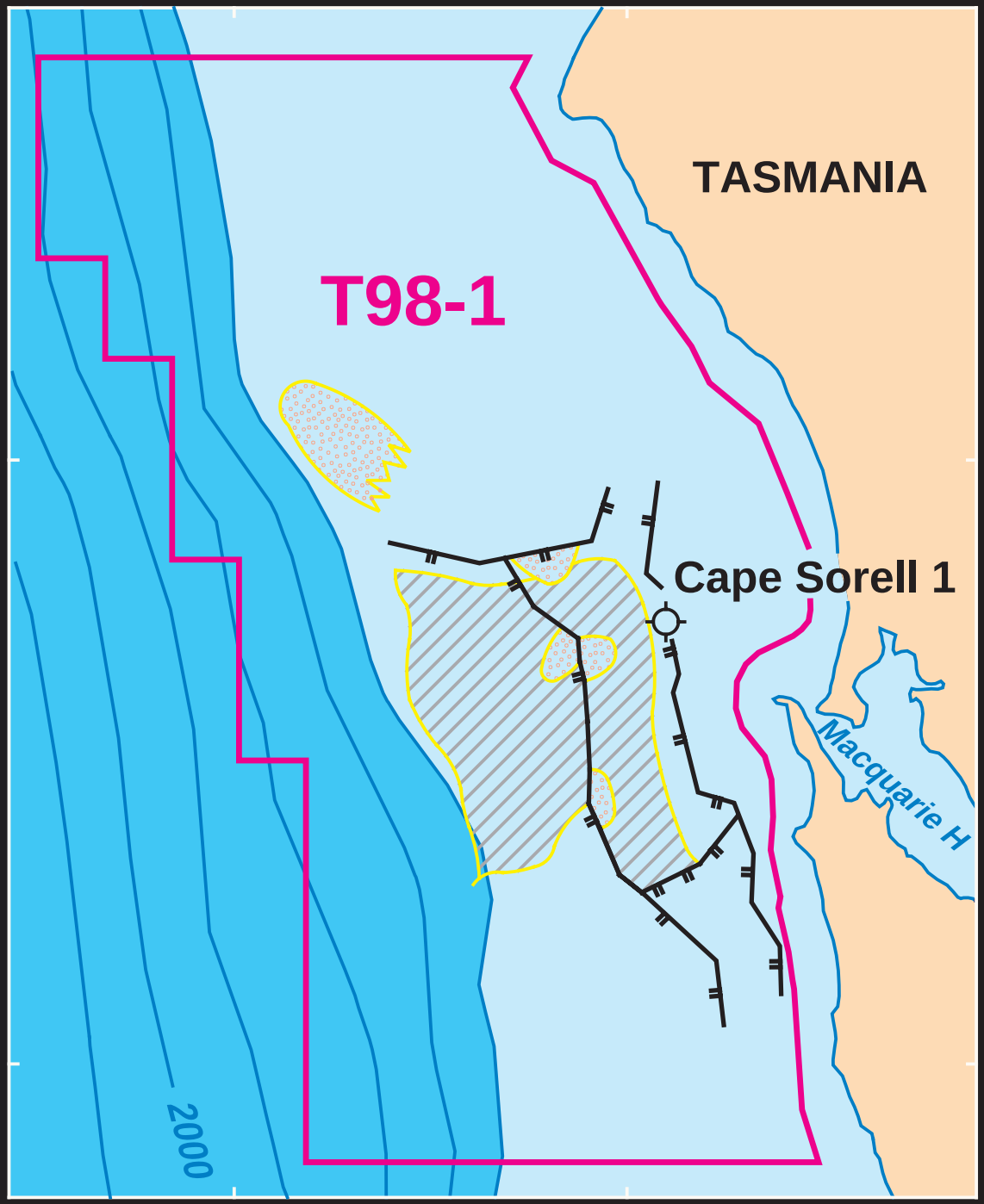


*Generative source area Sherbrook/Otway Groups*

*Prospects and leads*

20 km

*(Courtesy MAXUS)*

BRS 98/114

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