



## Voyage ss2012\_t05

### The benthic fauna of the Great Australian Bight

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#### Contribution to Australia's national benefit:

The ongoing analysis of the stable isotope signature of surface particulate organic matter (POM), contributes to the first National Research Priority (Goal 6) by providing a baseline for future investigations/research and by detailing the aspects of the trophic ecology of understudied marine habitats.

The swath mapping undertaken is key to the ongoing and generally serendipitous mapping of the Australian marine habitat.

The deployment of the CPR (McLeod) provides essential information about the distribution of zooplankton around Australia.

#### As a result of this voyage:

1. We have a better understanding of the isotopic signatures (C13/ N15) of surface POM along Australia's southern seaboard.
2. We have found an active methane seep in the Bremer Sub-basin.
3. We have mapped sections of the 500 m isobath along the continental shelf of the southern seaboard of Australia, from Hobart to Fremantle.
4. We have commenced a program of analysing the plankton (McLeod) and POM (Holmes) collected.

#### Itinerary

Departed Hobart 18:00

Monday, 30 July 2012

Arrived Fremantle 16:00

Thursday, 9 August 2012

#### > Voyage track ss2012\_t05

