Voyage SS08-2004

High resolution dynamics of frontal systems and the zooplankton biomass size spectrum.
Professor Jason Middleton (Chief Scientist) and A/Prof Iain Suthers, University of New South Wales

Marine National Facility 2004/2005 Voyages			Environmentally Sustainable Australia					Frontier Technologies	Safeguarding Australia
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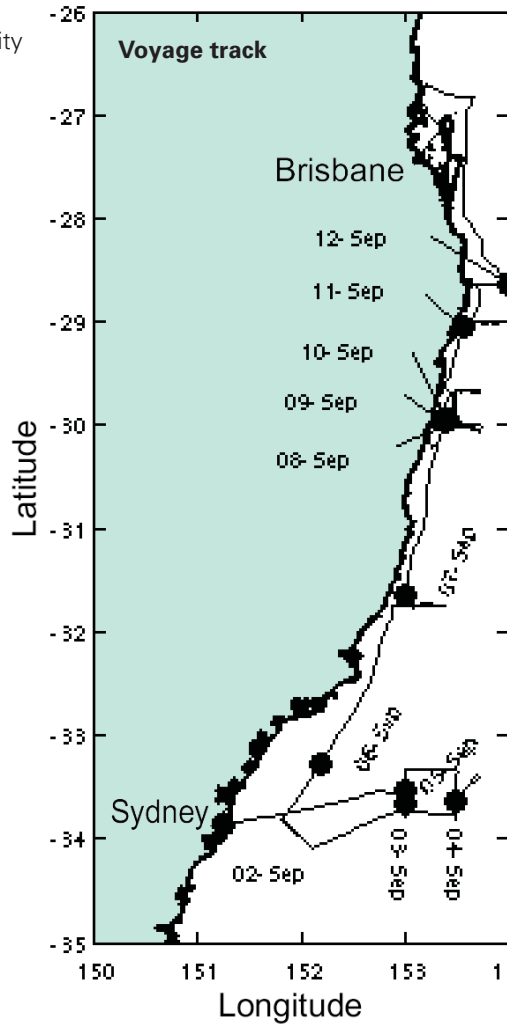
SS08/2004	High resolution dynamics of frontal systems and the zooplankton biomass size spectrum off NSW.	UNSW							

The potential of the voyage to contribute to Australia's national benefit:

This voyage studied the physical and biological structure of the East Australian Current (EAC), where it passes the Solitary Islands (a Commonwealth Marine Park) and separates from the coast, to extend east across the Tasman Sea toward Lord Howe Is and New Zealand. The formation of fronts and island wakes can inject nutrients into nutrient depleted ecosystems and provide physical structure to the pelagic ecosystem. Understanding these phenomena will allow the Nation to make informed decisions that:

- protect Australia's marine biodiversity
- protect the ocean environment and its resources
- ensure ocean uses are ecologically sustainable
- promote economic development

The East Australian Current is an oceanographically complex phenomenon that plays a central role in the coastal dynamics of Australia's eastern seaboard. It influences the fishery and climate of 60% of Australians. Its behavior and composition has wide ranging impacts on many issues of national significance, from recreation to defence, from transport to environmental management.



> SS08-2004 voyage track