

New South Wales

Southern Cross University

DP0878568 Prof BD Eyre; Dr JM Oakes; Prof Dr JJ Middelburg

Approved Project Title **Unravelling Pathways of Nitrogen Cycling in the Muddy Sediments of Shallow Coastal Systems using Biomarkers, Stable Isotope Tracer Experiments and Modelling**

2008 : \$ 125,000

2009 : \$ 100,000

2010 : \$ 95,000

Primary RFCD 2599 OTHER CHEMICAL SCIENCES

APD Dr JM Oakes

Administering Organisation Southern Cross University

Project Summary

Many 100's of millions of dollars are likely to be spent over the next ten years on the management of nitrogen enrichment, and protection of biodiversity, in Australia's coastal waters. This project will significantly advance our understanding of how organisms from bacteria to macrofauna affect the functioning of our coastal systems. Understanding the role organisms at all levels play in the functioning of coastal ecosystems is the first step toward protecting this biodiversity. As such the findings from this research will have direct implications to the management, rehabilitation and protection of waterways (including biodiversity) in Australia.

DP0878683 Prof BD Eyre; A/Prof RN Glud

Approved Project Title **Unraveling the pathways of nitrogen cycling in permeable sandy sediments in tropical coastal systems**

2008 : \$ 130,000

2009 : \$ 110,000

2010 : \$ 100,000

Primary RFCD 2599 OTHER CHEMICAL SCIENCES

Administering Organisation Southern Cross University

Project Summary

Many hundreds of millions of dollars are likely to be spent over the next ten years on the management of nitrogen enrichment, and protection of biodiversity, in Australia's coastal waters. This project will significantly advance our understanding of how organisms from bacteria to macrofauna effect the functioning of our coastal systems. Understanding the role organisms at all levels play in the functioning of coastal ecosystems is the first step toward protecting this biodiversity. As such the findings from this research will have direct implications for the management, rehabilitation and protection of waterways (including biodiversity) in Australia.