

# Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

## New South Wales

### Southern Cross University

LP100200732 Prof Bradley D Eyre, Dr Isaac R Santos, Dr Dirk V Eler, Prof Ling Li, A/Prof Caroline P Slomp

**Approved Project Title** **Resolving nitrogen and phosphorus transformations along subterranean estuary - sediment/water interface continuums in carbonate sands**

2010 \$59,500.00

2011 \$103,000.00

2012 \$92,000.00

2013 \$48,500.00

2014

2015

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

APAI 1

#### Partner/Collaborating Organisation(s)

Australian Agency for International Development, Cook Islands Ministry of Infrastructure and Planning

**Administering Organisation** Southern Cross University

#### Project Summary

Humans are modifying global nitrogen (N) and phosphorus (P) cycles at an alarming rate. The release of N and P into the environment drives eutrophication, one of the greatest threats to coastal ecosystems worldwide. Globally, there is little effort being made to control increasing N and P emissions. The transport of contaminated groundwater is a major source of N and P to the coastal zone and an overlooked driver of eutrophication. Yet, research into the processes that influence N and P transformation in groundwater are scarce, they neglect carbonate sand systems and have ignored the processes in key groundwater transition zones. This project will generate new knowledge that will help us understand the role that groundwater plays in coastal eutrophication.