

# Summary of Linkage Infrastructure, Equipment and Facilities Proposals

## Queensland

### James Cook University

**LE0989642** Dr PL Munday; Prof BL Willis; Prof DJ Miller; Dr WP Leggat; A/Prof MI McCormick; Dr AH Baird; Dr TD Ainsworth; Prof D Yellowlees; Dr MJ van Oppen; Dr AP Negri

**Approved Project Title** **Environmentally Controlled Infrastructure to Investigate the Effects of Climate Change on the Great Barrier Reef**

**2009 :** \$ 150,000

**Primary RFCD** 2799 OTHER BIOLOGICAL SCIENCES

#### Partner Organisations & Collaborating Organisations

James Cook University

Australian Institute of Marine Science (AIMS)

Great Barrier Reef Marine Park Authority

**Administering Organisation** James Cook University

#### Project Summary

The coral reefs of Australia, particularly the Great Barrier Reef, Ningaloo Reef, and Lord Howe Island World Heritage Area are Australian national icons, of great economic, social, and aesthetic value to this country. Climate change has the potential to impact the biodiversity of these reefs and their sustainable management. Temperature, CO<sub>2</sub>, pH and light can affect coral and fish reproduction, coral bleaching and the response to other anthropogenic intrusions. This facility will provide essential infrastructure for conducting fundamental research on these issues and will directly interface with management agencies to assist with the sustainable management of Australian reefs.