

Climate Change Adaptation Research Grants Program

- Marine Biodiversity and Resources Projects

Project title:

A climate change adaptation blueprint for coastal regional communities.

Principal investigators: Dr Stewart Frusher & Nadine Marshall

Lead organisation: University of Tasmania & CSIRO Climate Change Adaptation Flagship

Objectives:

To develop the tools that provide the relevant information to reduce risks and increase capacity to cope with, and benefit from, change is urgently needed for coastal regional communities

Methods:

Objective 1:

Develop and trial a "blueprint" using three marine community case studies in south-eastern, western and northern Australia, that objectively integrates a suite of adaptation assessment and evaluation tools for the provision of best choice marine climate change adaptation options to these coastal communities. This will be addressed through the first two phases of the project.

- Phase 1. a two day workshop that involves expertise from the different disciplines to develop a conceptual model and approach for the case studies.
- Phase 2. development, application, and review of the methodology through its application to three case studies (SE, W and N).

Objective 2:

Compare and synthesise potential adaptation options across case studies to develop a) an understanding of the context dependence of adaptation in marine communities, and b) portfolio of generic adaptation options for sub-tropical to temperate coastal and regional marine communities in Australia.

- Phase 3. Documentation of the case studies and provision of a summary of the learning's to inform the national phone survey (objective 3).

Objective 3:

Based on the outcomes of objectives 1 and 2, determine the broad representativeness of the blueprint to address the needs and priorities of coastal rural communities throughout Australia.

- Phase 4. Workshop with regional program managers, key government and industry stakeholders and extension personnel. The workshop will identify the key learning's from the case studies and assist in the development of the national phone survey.
- Phase 5. will be the undertaking and documentation of results from the national phone survey.

Objective 4:

Develop capacity for inter-disciplinary research by training and mentoring two early career researchers.