



National Environmental  
Research Program

**MARINE BIODIVERSITY** *hub*



## **Theme 2 Project 1**

Integrating social, economic and  
environmental values

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MARINE BIODIVERSITY *hub*

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## General Project Aim

- Provide knowledge and advice regarding the economic and social dimensions of marine conservation in complex multi-jurisdictional, multi-objective and multi-sectoral environments





## 4 Targeted Project Activities

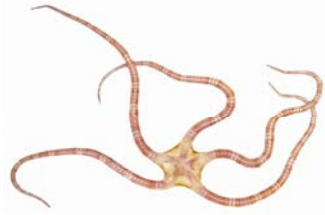
1. Supporting the development and implementation of a monitoring and evaluation framework for Commonwealth marine reserve networks
2. Improving understanding of the role of stewardship and of market-based incentives in marine conservation and management
3. Quantifying non-use, non-market marine values (including biodiversity)
4. Supporting the development and implementation of offsets in the marine environment



## **1. Supporting the development and implementation of a monitoring and evaluation framework for Commonwealth marine reserve networks**

- What are the objectives of marine reserve networks (and their relative importance) against which performance can be evaluated?
- What indicators could be used to monitor economic and social outcomes?
- How can the 'value of the information' provide guidance on optimal monitoring design?
- Are there ways of using incentives to reduce the costs of monitoring?





## **2. Understanding the role of stewardship and market-based incentives in marine conservation and management**

- How can marine stewardship, particularly as it relates to conservation values, be enhanced through alternative approaches to managing human behaviour, and hence marine resource use?
- What can the role of economic incentives be in achieving efficient marine conservation and management through better compliance and stewardship?



### **3. Quantifying non-use marine values (including biodiversity)**

- Identify and measure a range of non-use values generated by marine resources through the design of survey-based, constrained choice experiments that account for some of the challenges of non-market valuation in the marine context
- Applications at different levels (local, regional and national) addressing issues related to the representation of taxonomy, function and scale.



### **3 Quantifying non-market marine values (including biodiversity)**

- Determine the potential for 'benefit transfer' in the marine context
- Use non-market valuation techniques to inform policy-makers about potential issues of social licence (linked to activity 4), distributional effects and preferences over alternatives policy approaches.





## 4. Supporting the development and use of offsets in the marine environment

- Offsets present a challenge in the marine context, as offsetting intervention at an ecosystem level is complex and uncertain
  - How do you design an offset policy that ensures ecological outcomes are achieved most efficiently?
  - How do you design economic incentives to ensure developers comply?
  - Are there issues of 'social license to operate' that should inform the design of a marine offsets policy? (Linked to activity 3)



## Key Project 1 Connections

Activity 1 – Keith Hayes, Theme 1 (National monitoring, evaluation and reporting)

Activity 2 – John Tisdell, Landscapes and Public Policy NERP (experimental economics)

Activity 3 – Theme 2, Project 2 (Integrating threats, values and assets)



## Project 1 Outputs 2013/14

- Activity 1
  - Paper assessing merit of various social, economic and environmental indicators against range of possible marine reserve objectives and describing methodologies for implementing monitoring and evaluation framework within adaptive management cycle
- Activity 2
  - Paper reviewing use of market-based incentives to promote marine conservation both on and off reserve, and across multiple jurisdictions and sectors
  - Series of case study papers reviewing current incentive structures and identifying ways in which market-based incentives can be improved



## Project 1 Outputs 2013/14

- Activity 3
  - Series of papers/reports detailing the outcome of non-market valuation applications, including social licence to implement indirect offsets
- Activity 4
  - Workshop and mini-symposium on key offset issues in conjunction with AARES 2013
  - Paper on key issues associated with implementing marine offsets
  - Case studies illustrating marine offset implementation

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