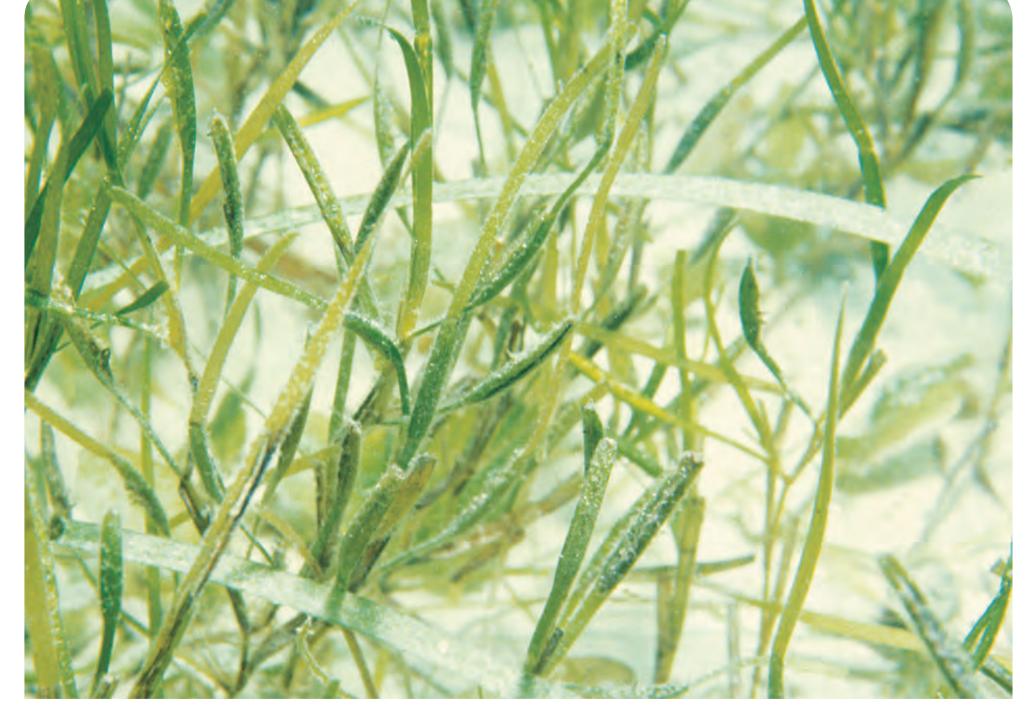
TROPICAL ECOSYSTEMS hub

Design and implementation of Management Strategy Evaluation for the Great Barrier Reef inshore

PROJECT LEADER: Dr Cathy Dichmont

PROJECT TEAM: CSIRO, Great Barrier Reef Marine Mark Authority, Department of Agriculture, Fisheries and Forestry, Department of Environment and Heritage Protection, Department of Science, Information Technology, Innovation and the Arts, James Cook University







A Management Strategy Evaluation (MSE) framework is being developed to help understand the key human uses and drivers of change in the inshore Great Barrier Reef (GBR).

The framework will demonstrate the likely consequences, costs and benefits of management decisions that aim to minimise the impacts on biodiversity, particularly from inshore multi-species fisheries.

Extensive consultation with stakeholders at Mackay and the Burdekin is an important feature of the project which aims to:

- 1. Develop qualitative models to understand key interactions in the region, and underlying processes and drivers.
- 2. Identify social, ecological, economic and governance objectives of stakeholders for the inshore GBR region.
- 3. Identify alternative strategies for managing the inshore region, using a stakeholder-driven approach.
- 4. Assess the impacts of the management strategies against objectives using a semi-quantitative approach.
- 5. Develop management options (with end users) aimed at biodiversity outcomes, focusing on inshore multi-species fisheries management.



Qualitative modelling to identify key processes / interactions and their drivers

Elicit objectives and sub-objectives

Weight objectives by stakeholder group (Analytical Hierarchical Process)

Develop management "strategies"

Derive management implications

Overall weighted impact by strategy or for each subobjective by strategy (MCDA) Relative impact assessment for each strategy against each sub-objective

STAKEHOLDER ENGAGEMENT

Project Team

LMAC reference group

LMAC

Community

PATHWAY TO IMPACT

The project will engage local groups and key government departments linked to regional management.



