

FORUM #5



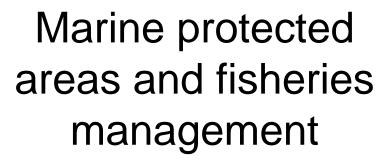


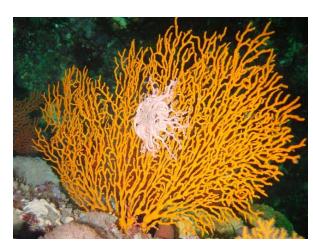


Photo: Matt Hoare



Format of the evening

- Introduction
- Brief presentations from Kelly Crosthwaite (PIRSA), Jon Emmett (DEH) and Bob Kearney
- Forum discussion
- Informal discussion over drinks and nibbles







Forum discussion ground rules

- Respect for all stakeholders
- Save questions until after all talks
- Only one person talking at a time
- Introduce yourself before speaking
- Keep it brief (some things are best left for informal discussion afterwards)









Introduction - why we wanted this forum topic



Aim is to gain insight and understanding through open, constructive discussion with government managers and other stakeholders





Barriers encountered at the working groups

- Threats have not been identified
- Fishing is not a threat to biodiversity
- Our fisheries are well managed so 'no take' areas are not required
- Marine Parks are not about fisheries management



What is the scope of fisheries management?



Australian Government

Department of the Environment and Water Resources

GUIDELINES FOR THE ECOLOGICALLY SUSTAINABLE MANAGEMENT
OF FISHERIES - 2007



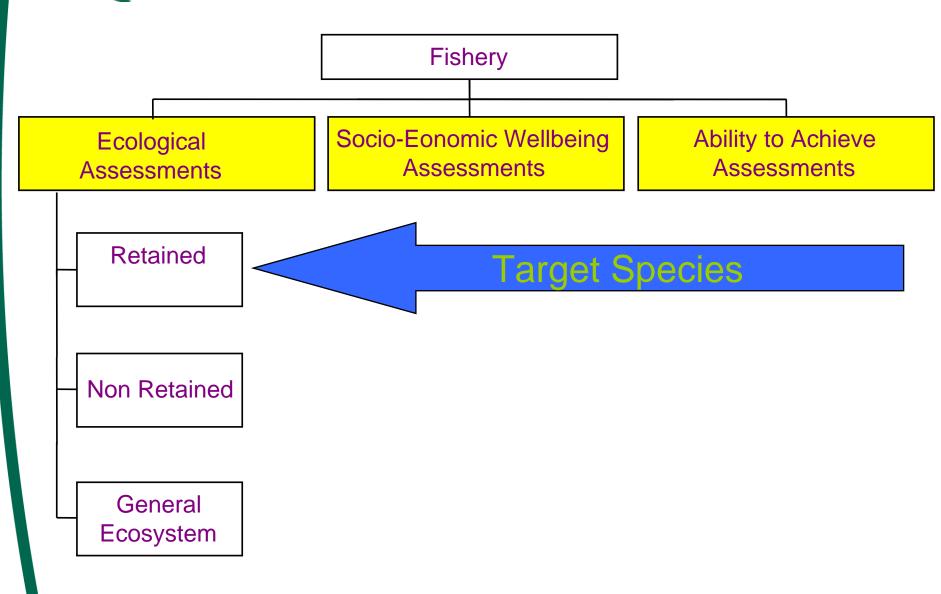
Ecologically
Sustainable Development

Catching Sustainability

FRDC - Subprogram



National ESD REPORTING FRAMEWORK





SA Fisheries Resources - Current Status and Trends 2006

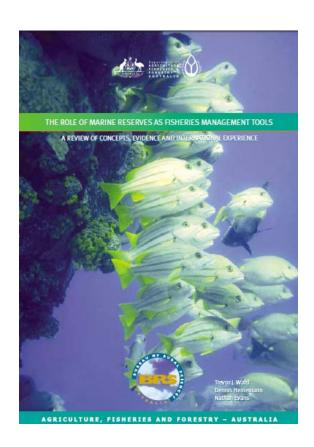
	Fisheries	Stock status	Assessment reliability	Catch trend	Effort trend
	Southern Rock Lobster (Jasus edwardsii)				
	Northern Zone	Over fished	Reliable	Decreasing	Decreasing
0	Southern Zone	Fully fished	Reliable	Increasing	Increasing
Source:	Abalone (Haliotis laevigata, Haliotis rubra)				
PIRSA (2007)	Southern Zone Greenlip	Fully fished	Reliable	Stable	Stable
South	Southern Zone Blacklip	Fully fished	Reliable	Stable	Stable
Australian	Central Zone Greenlip	Fully fished	Reliable	Stable	Stable
Fisheries	Central Zone Blacklip	Over fished	Reliable	Decreasing	Decreasing
	Western Zone Greenlip	Fully fished	Reliable	Stable	Stable
Resources —	Western Zone Blacklip	Fully fished	Reliable	Stable	Stable
Current Status	Giant Crab (Pseudocarcinus gigas)				
and Recent	Southern & Northern Zones combined	Fully fished	Indicative	No trend	No trend
Trends 2006	Sardine/Pilchard (Sardinops sagax)				
	Sardine Fishing Zone	Fully fished	Reliable	Increasing	Increasing
(046	Western King Prawn (Melicertus latisulcatus)				
(South	Spencer Gulf	Fully fished	Reliable	No trend	No trend
Australian	Gulf St Vincent	Over fished	Reliable	Decreasing	No trend
Fisheries	West Coast	Environmentally limited	Indicative	Decreasing	Decreasing
Management	Marine Scale Fish				
Series	King George Whiting (Spencer & Vincent)	Over fished	Reliable	Decreasing	Decreasing
Paper number 49)	King George Whiting (West Coast)	Fully fished	Reliable	Stable	No trend
	Snapper	Fully fished	Reliable	No trend	No trend
	Garfish	Over fished	Reliable	Decreasing	Decreasing
	Southern calamary	Fully fished	Indicative	Decreasing	Decreasing
	Blue Crabs (Portunus pelagicus)				
	Blue Crab Fishing Zone	Fully fished	Reliable	Increasing	Increasing



'No take' areas for fisheries management

- 'enhanced fisheries stability' a more precautionary and 'bet-hedging' management strategy for fisheries
- possible benefits from spillover of adults and juveniles, or export of larvae, BUT careful design is required and negative consequences need to be considered

A major opportunity for fully and over-exploited fisheries to adopt a more precautionary and lower-cost approach to management that is highly likely to deliver improved benefits.





National ESD REPORTING FRAMEWORK

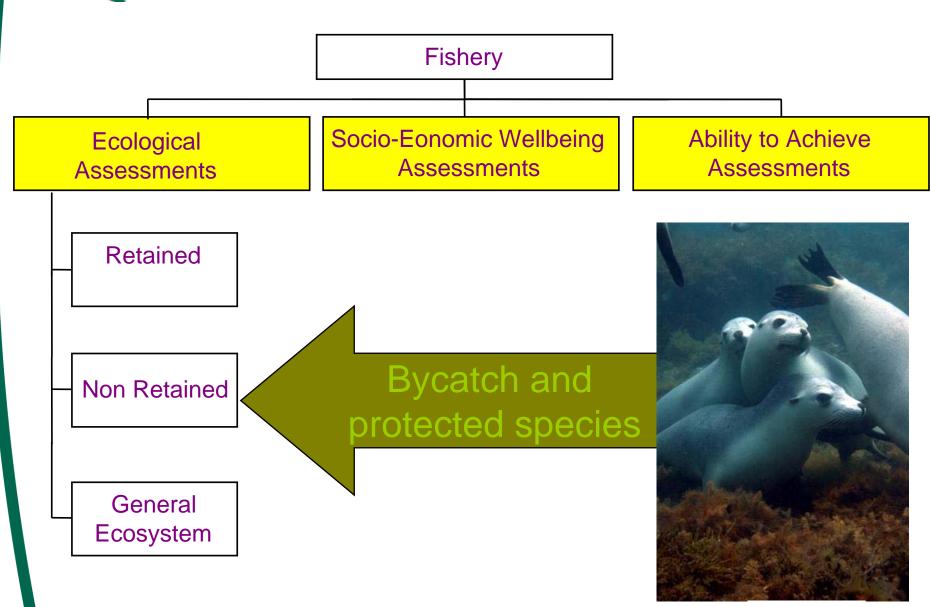
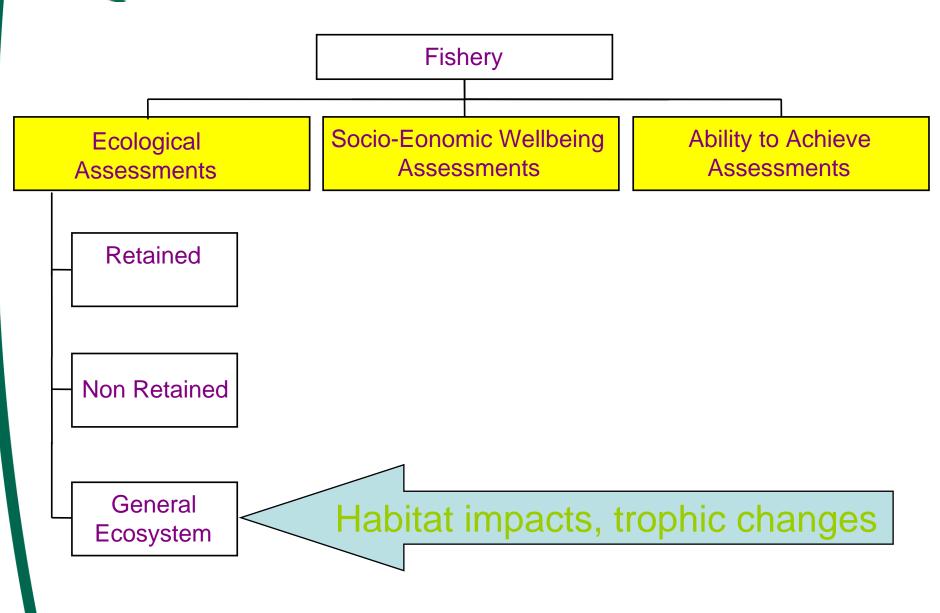
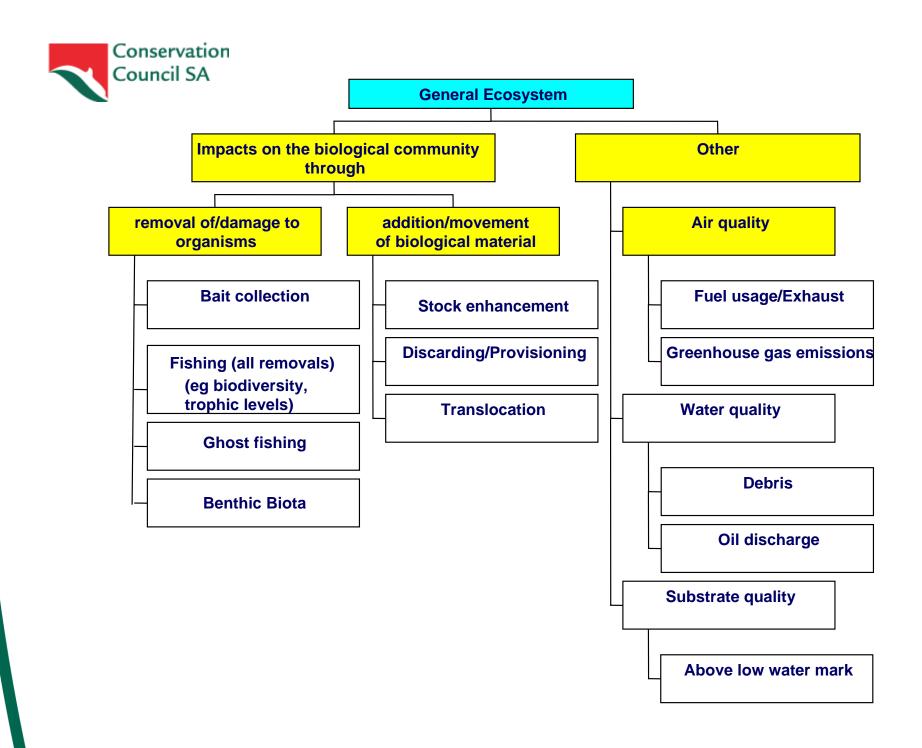


Photo: DEH



National ESD REPORTING FRAMEWORK







Threats associated with extractive use include:

- alterations to ecosystem function;
- destabilisation of community structure through extraction at specific trophic levels;



- disruption of competitive interactions and predator—prey relationships;
- reduction in relative abundance of top-order predators in marine ecosystems;
- reduced local genetic diversity within species and local species extinctions.

Marine Biodiversity Decline Working Group under the Marine and Coastal Committee of the Natural Resource Management Ministerial Council.



An FRDC project proposal has been developed to investigate the ecosystem effects of rock lobster and abalone fishing on temperate rocky reefs in South Australia, in response to the emerging need for improved understanding of the broader ecosystem impacts of fishing. The proposed study is intended to assist the process of developing a representative system of Marine Protected Areas (MPAs) for South Australia and improve the scope for fisheries managers to integrate broader ecosystem requirements into fisheries management regimes.

PIRSA to develop measures to assess ecosystem impacts of the fishery. Consideration should be given to the appropriateness of reference areas that would allow comparison between fished and unfished areas.



Sanctuary Zones can:

- Provide reference areas
- Address cumulative impacts
- Provide focus areas for other conservation tools
- Provide insurance against management failure
- Increase resiliance
- Enhance education and eco-tourism opportunities

Are we missing opportunities for greater synergies with fisheries management?



Summary

- The threat of fishing to marine biodiversity has been widely acknowledged
- Sanctuary zones are a vital tool for addressing this threat in a number of ways
- This will help to address an important gap in current fisheries management – broader ecosystem effects