





Presentation to CCI Environment Committee 26 May 2015

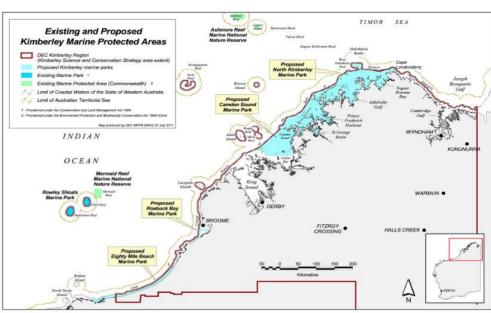
# "Whose values?" Mapping community values for the Kimberley coast



## Scope of talk







<u>KIMBERLEY MARINE RESEARCH PROGRAM:</u> Marine research program for North Kimberley, Camden Sound, Roebuck Bay & Eighty Mile Beach marine parks & other coastal waters. 24 projects

<u>WAMSI SOCIAL RESEARCH PROJECT:</u> Human values & aspirations for coastal waters of the Kimberley. 2013-2015

# Why community values matter



Understanding the values of people associated with coastal & marine environments is essential.

#### Without this support:

- Local communities oppose development & conservation proposals
- No marine parks created/few resources for their management

Community values neglected in marine planning & management (Voyer et al. 2012 *Marine Policy*)



# Research design



- RQ: What are the values of people associated with the Kimberley coast?
- Marine park focus
- In-depth face-to-face interviews: Kimberley, Perth & Darwin
- Engage greatest possible range of stakeholders

Gather data in a form useful for management & decision-making





Slingair

Saltwater Traditional Owners

Shire of Derby West Kimberlev



# Whose values?



Broome

people - place - prosperity

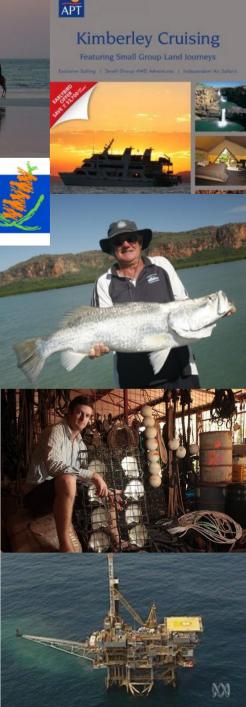






Roebuck Bay Working Group





#### Methods



# Agreement-based research with Traditional Owners

- 1. Introductions, scoping & project adjustments
- 2. Interviews & conversations on country
- 3. Community feedback



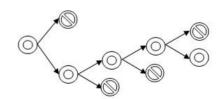




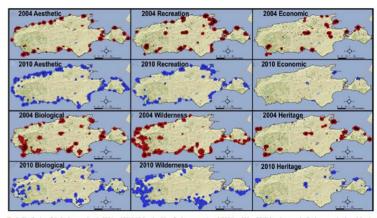
#### Methods

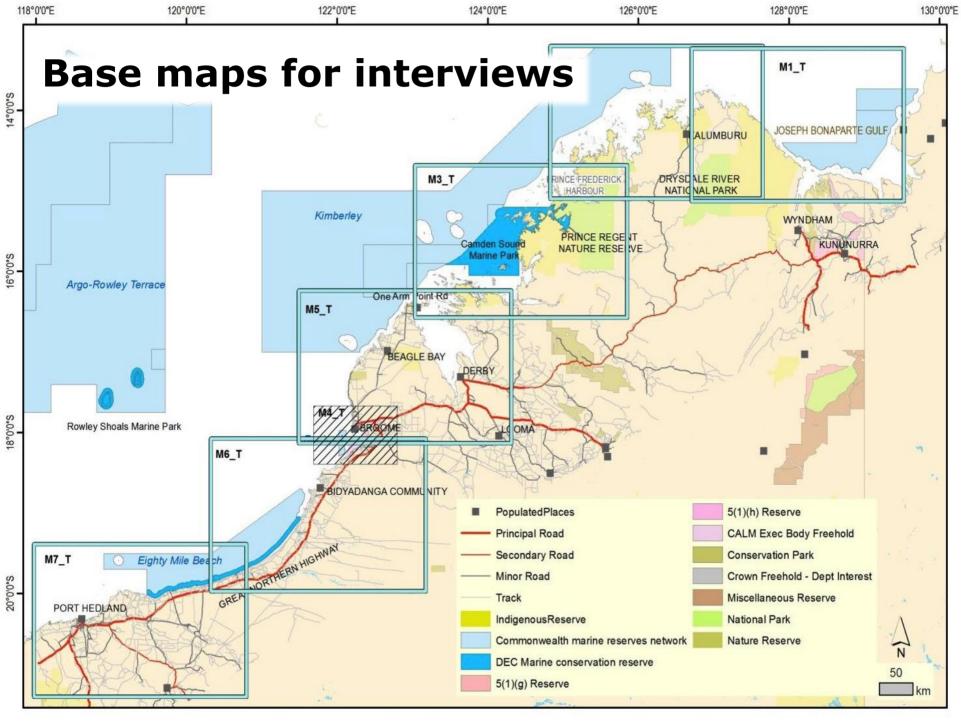


Purposive, "snowball" sampling



- Key questions:
  - What places are important to you? (how, why)
  - Mark up to 5 places on 1: 1,000,000 maps
- Participatory mapping as an integral part of interview (spatial delineation of social values)





#### Results overview

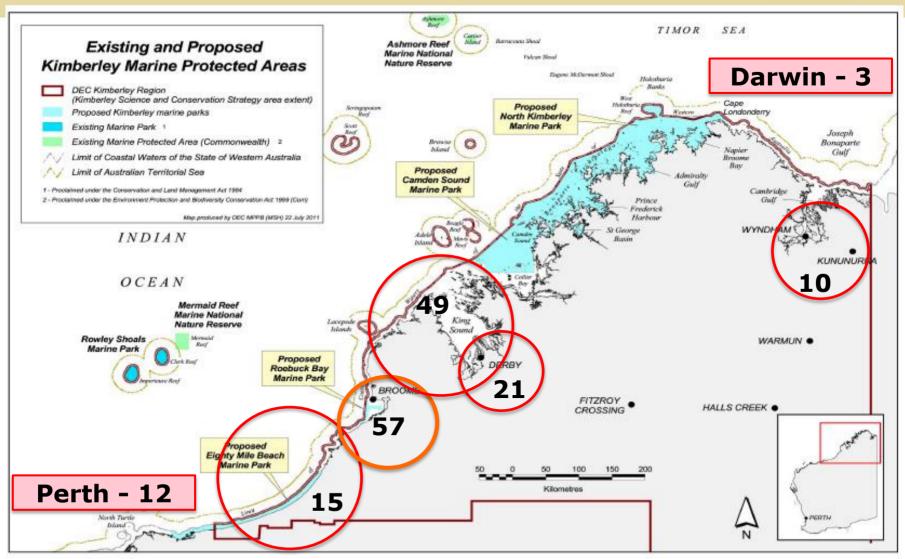


- 167 interviews (232 people), with 5 months in the field
- Transcribed interviews 'coded' to identify emergent values (value definitions not imposed)
- 986 polygons drawn by respondents
- 8 Aboriginal groups contributed to/engaged in the research



#### 167 interviews in 2013





#### Interviews with:



Aboriginal	traditional	owners
& rangers	(30)	

Tourists (33)

Residents (Aboriginal & non-Aboriginal) (27)

Tourism industry (14)

Commercial fishing (3)

Local government (3)

Aquaculture (4)

State government (inc. Department of Parks &

Wildlife (11)

Federal government (1)

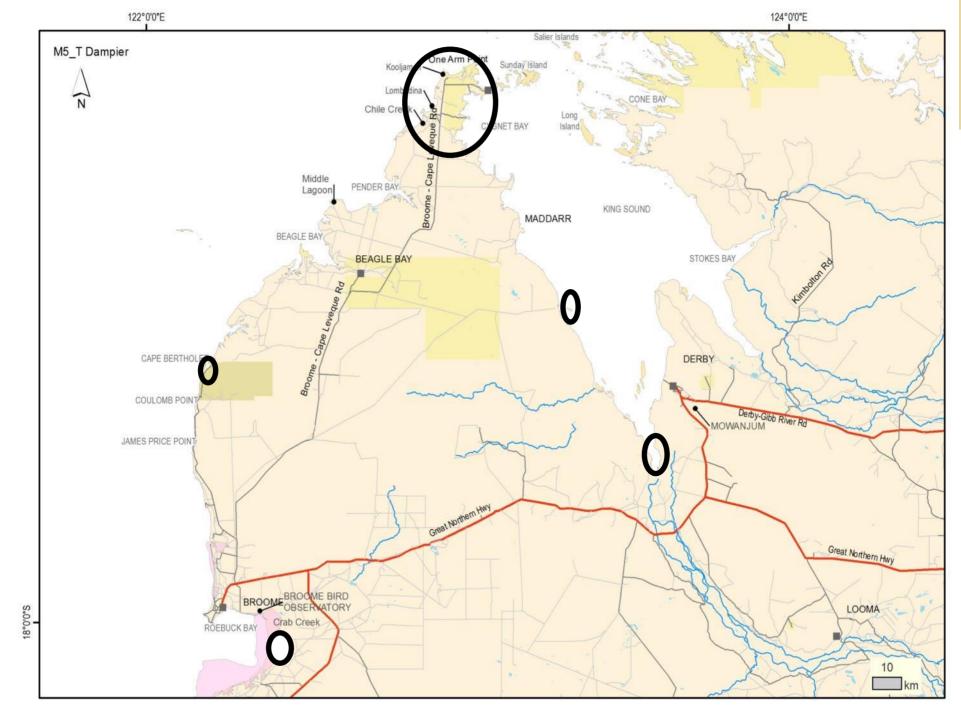
Recreation fishing groups (4) Mining, oil, gas & energy (3)

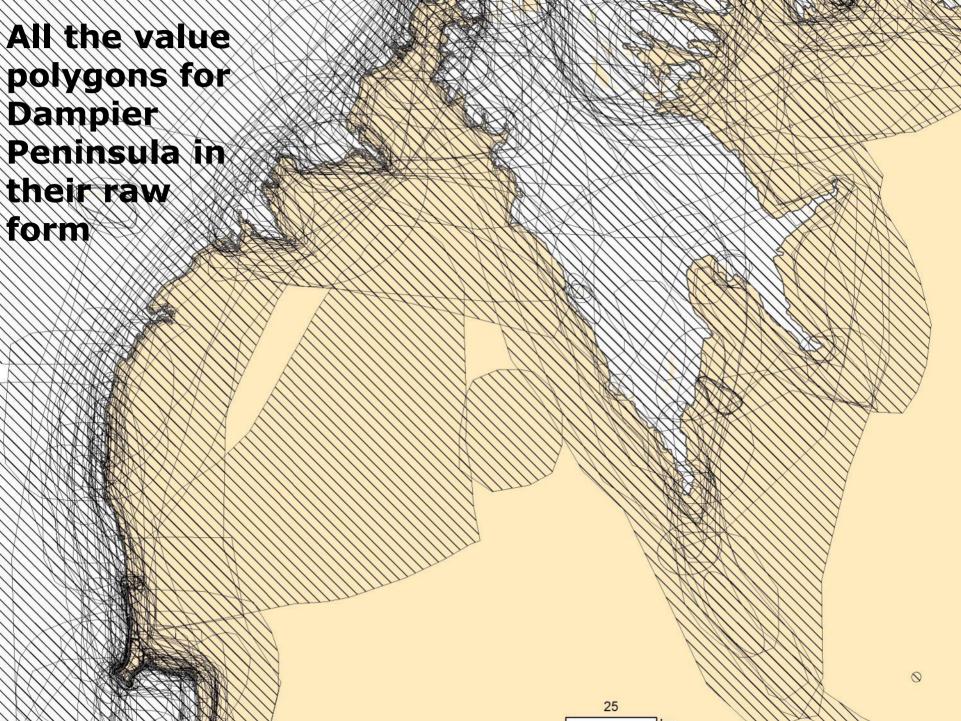
Environmental non-

government organisations (7)

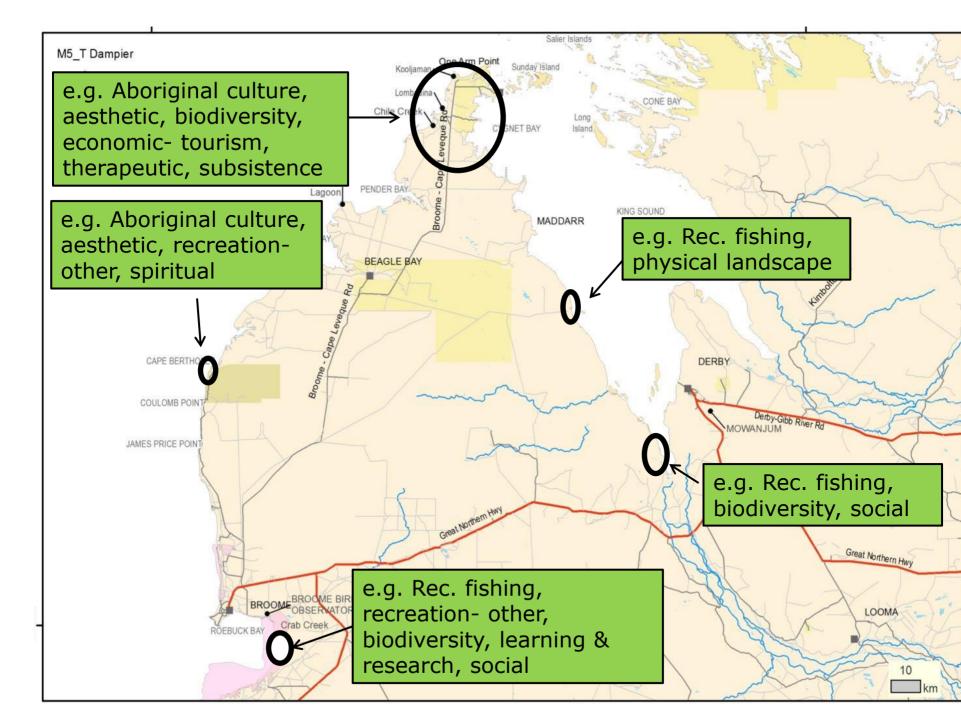
Marine transport, servicing & ports (5)

Aviation (6) Yatchies (12) Other (4)





Value	Definition	
Direct use, non-consumptive values		
1. Physical landscape (77%)	Valued aspects of the physical landscape including 'aesthetics', 'wilderness', 'remoteness', 'pristine'	
2. Aboriginal culture (63%)	Transmission of Aboriginal wisdom, knowledge, traditions, way of life	
3. Therapeutic (62%)	Places that make people feel physically or mentally better, calm or recharged	
4. Social interaction & memories (56%)	Social values of a place e.g. 'family time', 'childhood memories'	
5. Recreation – other (62%)	All other recreation opportunities e.g. exploration	
6. Experiential (51%)	Personal experience of a place e.g. 'awe inspiring', 'adventure'	
7. Learning & research (34%)	Ability to learn from a particular place	
8. Historical (19%)	Natural & human history that matters to individual, others, Australia or world	
9. Spiritual (11%)	Places that are sacred, religious, unique, or provide deep &/or profound experiences of nature. Does not include Aboriginal culture.	
Direct use, consumptive values		
10. Recreation – camping (58%)	Camping opportunities	
11. Recreation – fishing (54%)	Fishing & other gathering of marine life	
12. Subsistence (44%)	Places providing for basic human needs such as subsistence food collection & fresh water provision; includes Aboriginal hunting	
13. Economic - tourism (36%)	Relating to tourism activity	
14. Economic – commercial fishing (24%)	Values derived from commercial fishing, pearling or other aquaculture	
Indirect use values		
15. Biodiversity (80%)	Presence of a range of plants, animals etc e.g. 'wetlands', 'turtles', 'whales'	
Non-use values		
16. Bequest (7%)	Ability for future generations to know landscapes & habitats as they are now	
17. Existence (4%)	Knowing that a particular place exists, regardless of having been to a place	



### Heat maps

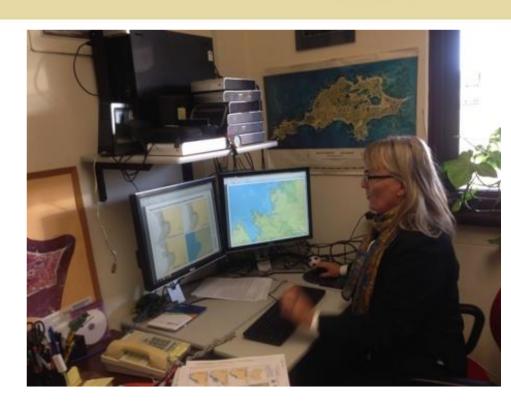


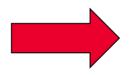
Digitisation of all polygons

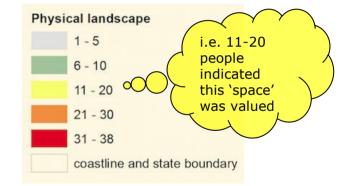
Assignment of values to polygons

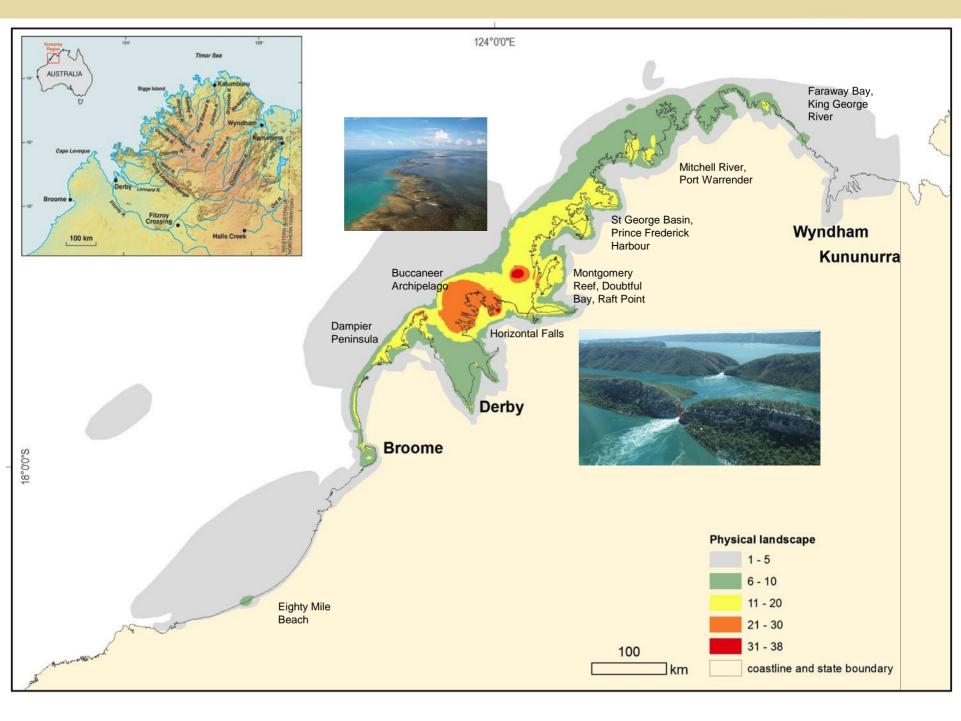
Development of a heat map for each value by counting overlapping polygons

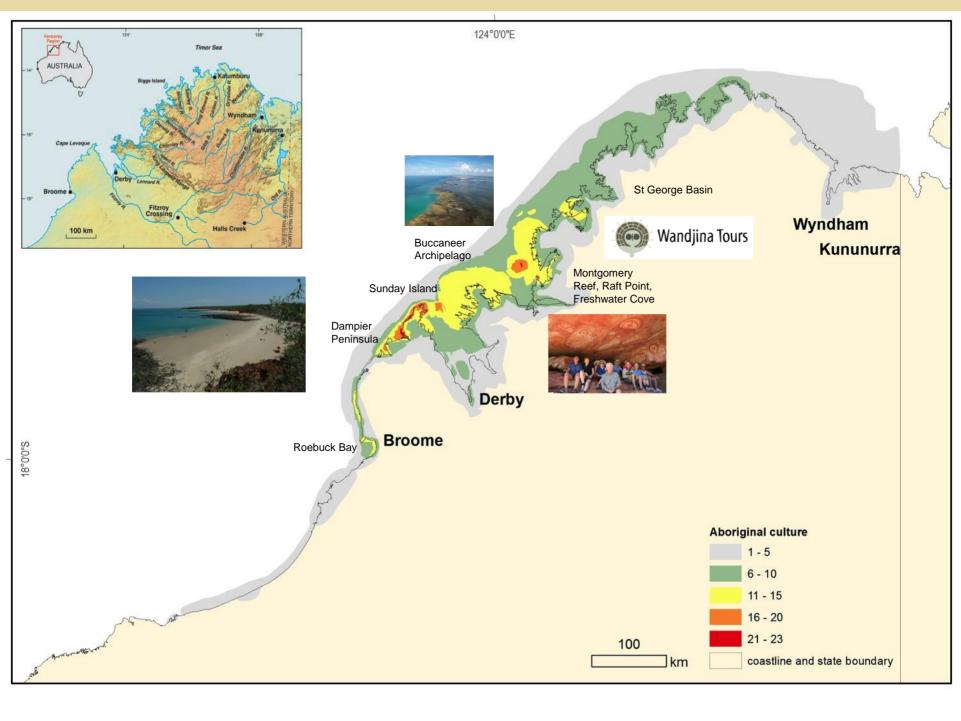
Assign colours to show counts

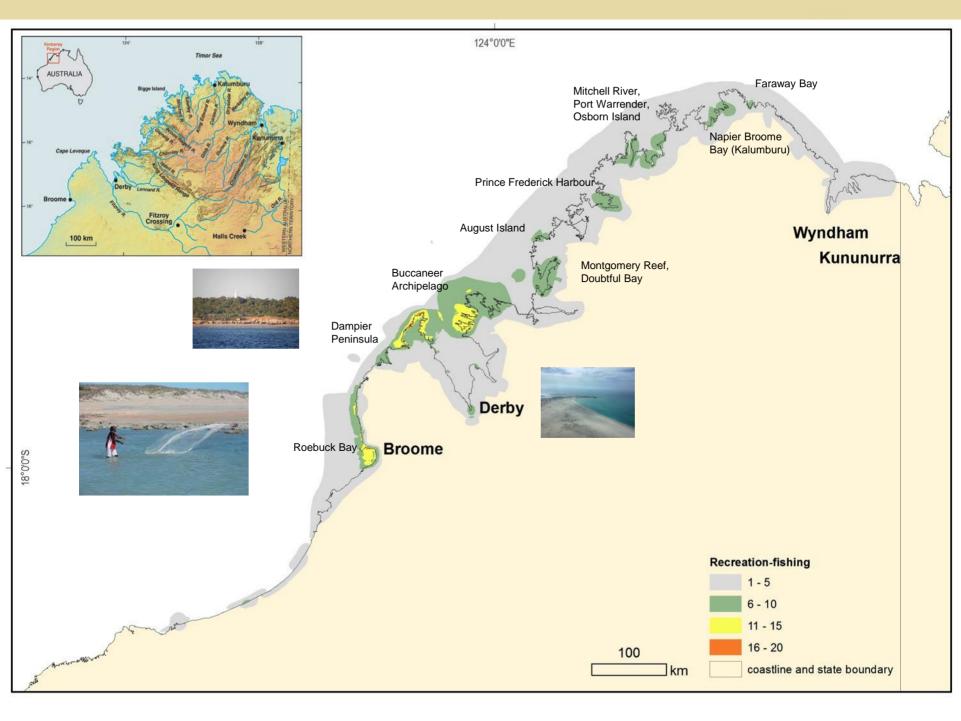


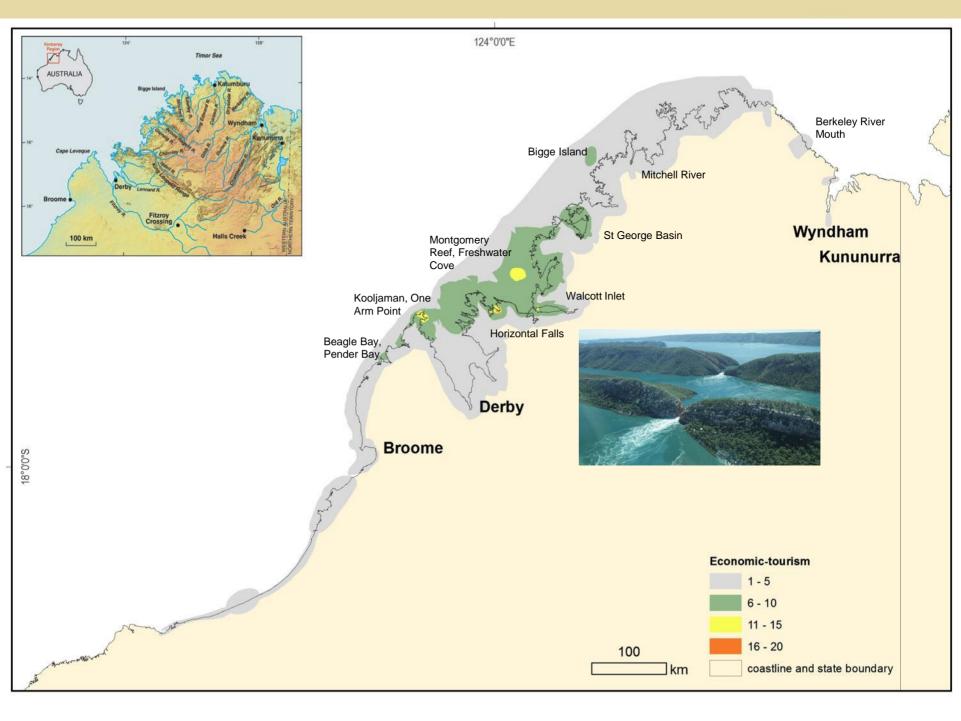


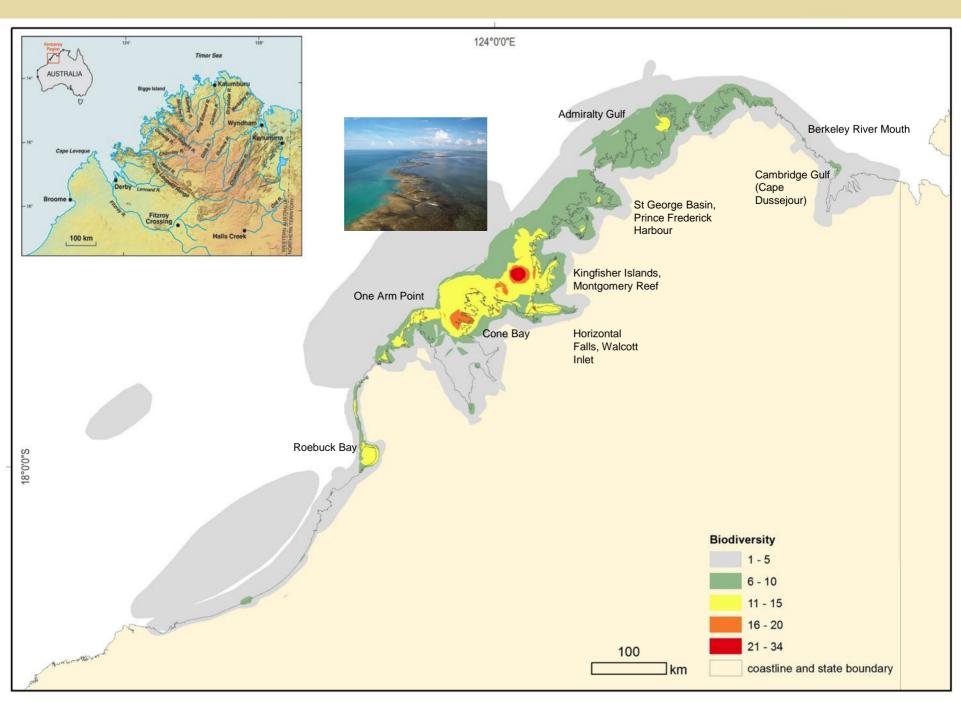








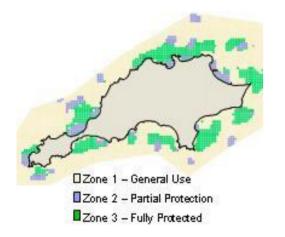




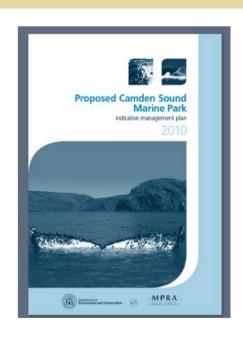
#### Uses of data



- Values information for coastal & marine policy & planning
- Digital data for spatial planning (e.g. for marine parks & zoning)
- "Picture books" for planning & management
- Helping joint management









#### WHAT DO YOU VALUE ABOUT THE KIMBERLEY COAST?



We are gathering information on what <u>you</u> value about the Kimberley coast and how <u>you</u> would like to see it managed. The research aims to assist Government to make decisions about the coast, now and into the future.

We want to hear from as many different people as possible through our online survey:

#### http://www.landscapemap2.org/kimberley

The survey will take around 25- 30 minutes and your input will be anonymous.

When you finish you can choose a \$10 gift as our way of saying thanks for your help.

For further information, contact Dr. Jennifer Strickland-Munro (J.Strickland-Munro@murdoch.edu.au).







