Department of Parks and Wildlife Marine Monitoring Program

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Department of Parks and Wildlife

Who we are



Department of Parks and Wildlife

- Legislatively responsible for the management of conservation estate (including marine reserves) and key flora/fauna
- Focal goal of biodiversity conservation
- Responsibilities
 - > visitor services
 - > forest management
 - > fire
 - > science and conservation
- 100 terrestrial and 14 marine parks



What we do



Marine Monitoring Program

- Marine parks and key marine fauna
- Conduct and coordinate monitoring to support management strategies and objectives
- Partnership between Marine Science and Regional staff
- Directed at key ecological 'assets'





Strengths and Challenges



Strengths

- Long-term strategic focus
- Regional staff and infrastructure
- Strong collaborations

Challenges

- Large geographical scale
- Ecosystem diversity
- Expanding marine park network
- Relatively small team



Pilbara Marine Parks



- Ningaloo marine reserves
- Montebello/Barrow
 Islands marine reserves
- Active Programs
 - > Coral
 - > Fish
 - > Mangroves
 - > Turtles
 - > Water Temperature



Corals



- Coral Cover
- Community Composition
- Recruitment
- Drupella predators
- Active collaboration with CSIRO for recruitment tiles in Montebellos





Fish



- Shallow water: stereo-DOV
- Deeper water: stereo-BRUV
- Recruitment
- Active collaboration with UWA, AIMS, ANU and CSIRO





Water Temperature



- Incorporates NOAA satellite derived data and in-situ temperature loggers
- Currently being refined use
 5km pixels





Mangroves



- Remote Sensing
- Mangrove Extent
- Foliage Condition





Where to from here...





- With thanks
- Marine Science staff
 Regional staff
 Collaborators



