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Great Barrier Reef Marine Park Authority

Great Barrier Reef Outlook Report 2009

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GREAT BARRIER REEF OUTLOOK REPORT 2009

ICRI Monaco Jan 2010



Eight assessments - Values



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Eight assessments - Pressures and responses



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OUTLOOK

What does this mean for the Great Barrier Reef's future?



Making an assessment



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Evidence:

- Best available (up to 2008)
 - Research
 - Community recollections
 - Historic records
- Supported by comprehensive online system
- Information gaps are highlighted



Overall conclusion



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"The outlook for the Great Barrier Reef ecosystem is at a crossroad, and it is decisions made in the next few years that are likely to determine its long-term future.

Unavoidably, future predictions of climate change dominate most aspects of the Great Barrier Reef's outlook over the next few decades.

The extent and persistence of the damage to the ecosystem will depend to a large degree on the amount of change in the world's climate and on the resilience of the Great Barrier Reef ecosystem in the immediate future."

Outlook for the Great Barrier Reef ecosystem Assessment Grade: Poor

Good news



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The Great Barrier Reef is:

- One of the most diverse and remarkable ecosystems in the world
- One of the healthiest coral reef ecosystems
- A leading example of world's best practice management



Good news - recovery



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The number and size of coral trout is increasing rapidly in zones closed to fishing.





Humpback whales appear to be recovering at their maximum rate, 45 years after whaling stopped.

Good news - recovery



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Trawl turtle excluder devices have arrested the decline in loggerhead turtles.



There are significantly fewer COTS outbreaks in zones closed to fishing.

Priority issues And some bad news



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- Climate change
- Continued declining water quality from catchment runoff
- Loss of coastal habitats from coastal development
- A small number of impacts from fishing and illegal fishing and poaching



Climate change



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Highest risks:

- Increasing sea temperature
- Ocean acidification
- Rising sea level

Almost all Great Barrier Reef species will be affected by climate change, some seriously.

Catchment runoff



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- Nutrients Highest risks:

 - Pesticides
 - Sediments



Direct use - extractive



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Highest risks:

- Fishing top predators (e.g. sharks)
- Illegal fishing or collecting (foreign & domestic)



Existing protection and management



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- All management, not just by GBRMPA
- Independent assessment (by 2 internationally recognised experts)
- High level review of 12 key management topics
- Input from Queensland and Australian Government agencies



Management topics

UNDER EMBARGO UNTIL TABLED IN AUSTRALIAN PARLIAMENT



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- biodiversity protection
- heritage
- water quality
- climate change
- coastal development

- commercial marine tourism
- defence
- fishing (commercial and recreational)
- ports and shipping
- recreation (not including fishing)
- scientific research
- traditional use of marine resources





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Very high:Climate changeCatchment runoff

High:

 Direct useextractive

Medium: Coastal

development

Low:

Direct usenon-extractive

Joint Government interim response



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'The Commonwealth and Queensland governments are committed to ensuring the long term protection of the Great Barrier Reef.'

- Responding to climate change
- Addressing catchment water quality
- Effectively managing the Great Barrier Reef
- Managing the coastal zone
- Ecologically sustainable management of fishing
- Research to support management and protection

Outlook Report



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OUTLOOK **REPORT 2009**



Overview

What is the Outlook Report and why was it produced? What is the outlook for the Great Barrier Reef A recommendation of the 2010 Review of the Great Barrier Reef and the Report for the Great Barrier Reef. This are of the Outlook Report is provide a regular and relation ensore of assessing parformance in an accountable and transparent manner.

The Report assesses the current state of the Great Barrier Reef ecosystem's environmental, social and economic values, examines the pressures and current responses and finally considers the likely auticok.

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ecosystem? While the Great Barrier Reef is recognised as one of the world's best managed reefs and is likely to survive better under the pressure of accumulating risks than most reef ecosystems, the Cuttook Report identifies that the current long-term cuttook for the Great Barrier Reef is poor.

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direct legislative responsibilities to the Great Barrier Reef. Management is achieved through a combination of on-ground actions, working with industries and communities,





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Thank you

Summary - management effectiveness



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- Biodiversity Many protection measures (e.g. zoning plans) making a difference; no overarching framework to guide and coordinate management actions.
- Climate change Broad threats understood and management emphasis on adaptation and improving resilience.
- Coastal development Lack of integrated planning, resources and enforcement is compromising protection.
- Commercial marine tourism Coordinated and professional management ensures a sustainable industry that contributes to management.
- Defence Thorough assessment, coordination and planning mean that activities are well managed.
- Fisheries Lack of information & coordination and variable uptake of best practice management is limiting effectiveness.

Summary - Management effectiveness



- Heritage Strong awareness of values; protection arrangements in place.
- Shipping Comprehensive management and coordination has minimised incidents. Ports Natural values appear to be protected; lack of overall strategic planning.
- Recreation Management is generally indirect and coordination is lacking.
- Research Activities environmentally sustainable; enhancing community understanding.
- Traditional use Improvements being made, including joint resource use agreements, but progress is slow.
- Water quality Substantial resources being provided, but progress is slow & patchy.