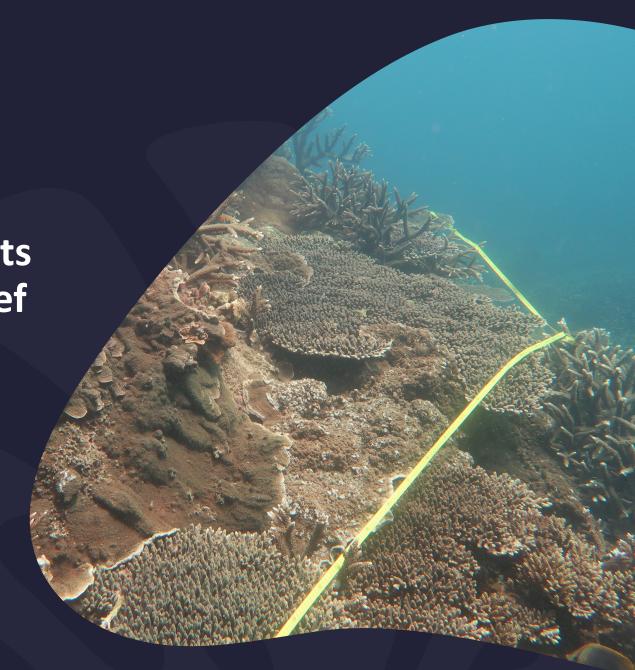


Monitoring Water Quality and its impacts in the Great Barrier Reef World Heritage Area

**Dr Martina Prazeres & Dr Kaye Walker** 

**Marine Monitoring Program** 

**Great Barrier Reef Marine Park Authority, Australia** 



The Reef Authority acknowledges the expertise, wisdom, and enduring connections that have informed the guardianship of the Reef for millennia. We pay our respects to the Traditional Owners as the first managers of this Land and Sea Country, and value their traditional knowledge which continues to inform the current management and stewardship of the Reef for future generations.



Nautilus Shell Artwork © 2023 by Laurence Gibson, Yalanji Arts, Mossman Gorge

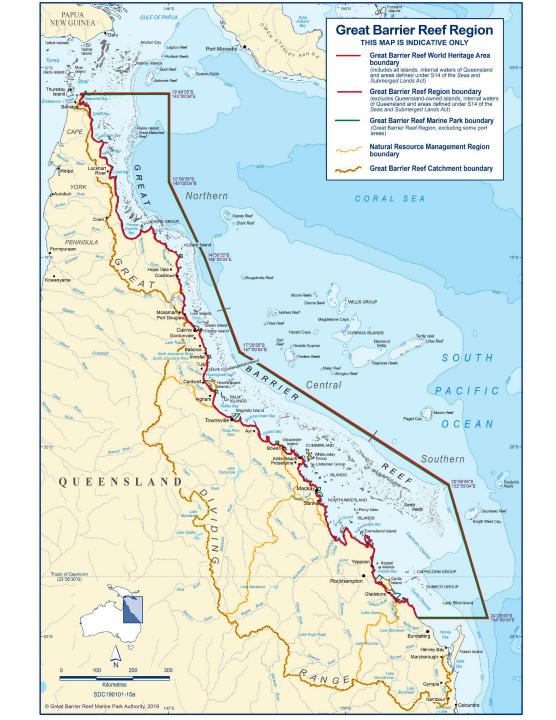
The Great Barrier Reef World Heritage Area and its catchments

#### **GBRMP & WHA**

• Extends over 14 degrees of latitude

• Covers 344,400 square kilometres in areas

Catchment area of 425,000 square kilometres

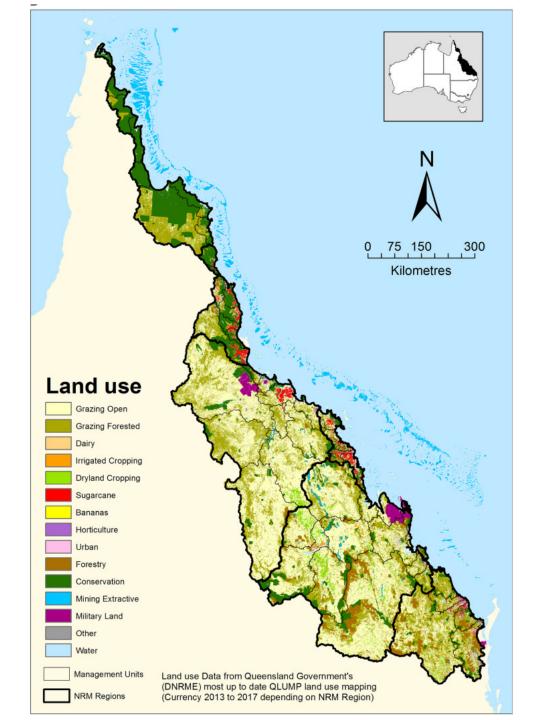


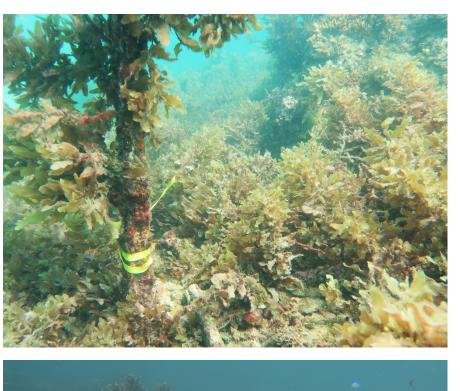
#### Changes in land use

Increased population & coastal development

Support Queensland's primary industry

• Use of fertilisers and agricultural chemicals



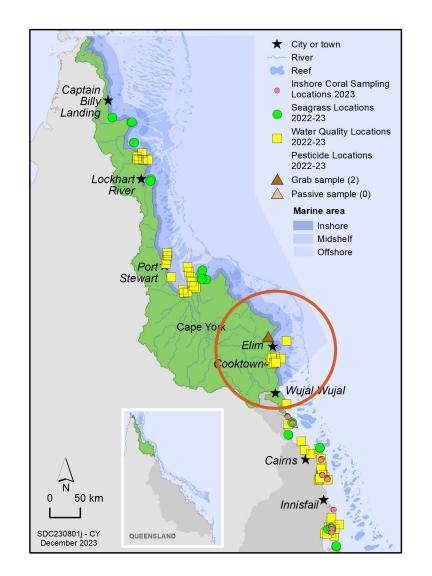


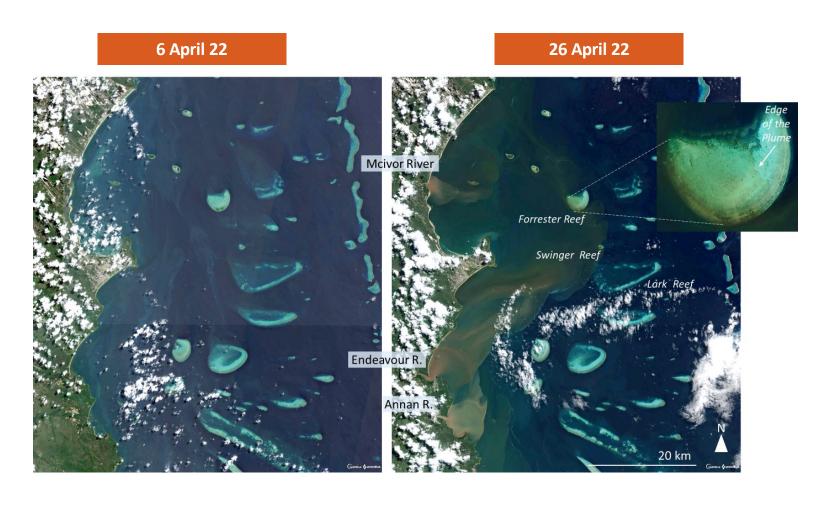






## Annan-Endeavour Rivers in Cape York





## Water Quality and why we monitor it

 Poor water quality is a major threat to the Reef and Reefdependent users

• Reduces the resilience of the Reef

Collaborative approach



# What's the Marine Monitoring Program?

#### Inshore

#### **Water quality**



Seagrass



Coral



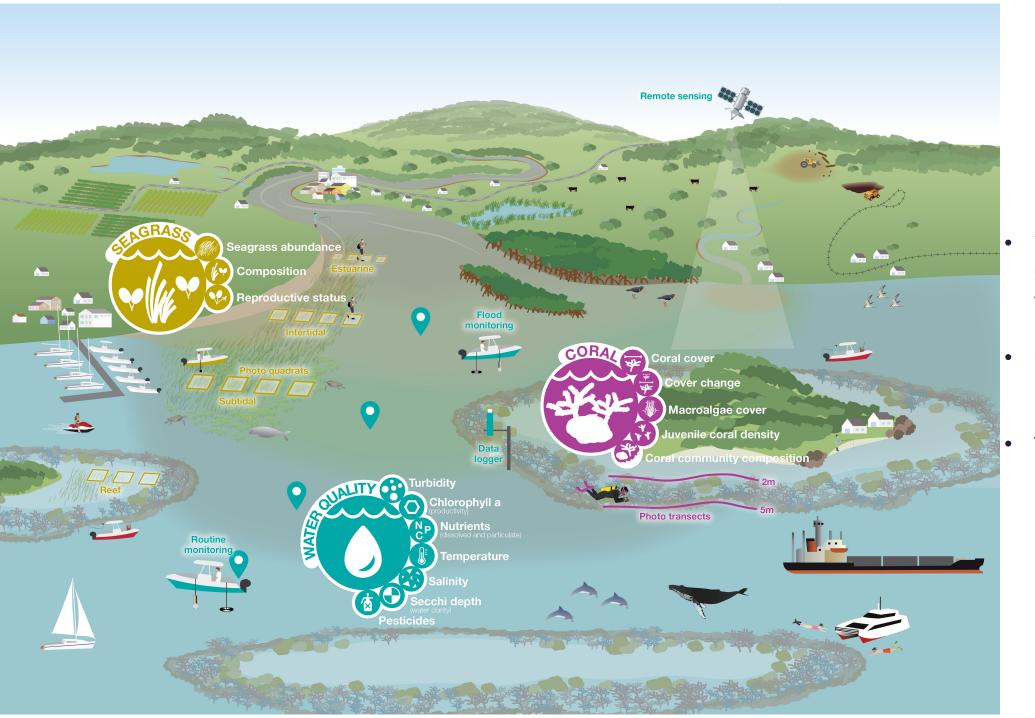






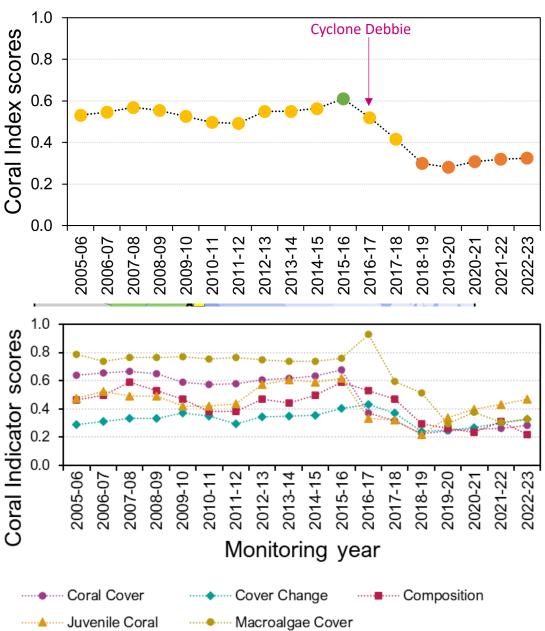






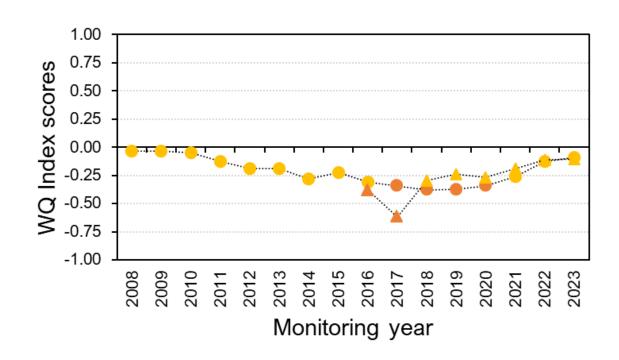
- Where the Queensland community spend most time on the Reef
- Cultural significance to First Nations peoples
- Tourism and recreational activity

#### Mackay-Whitsunday

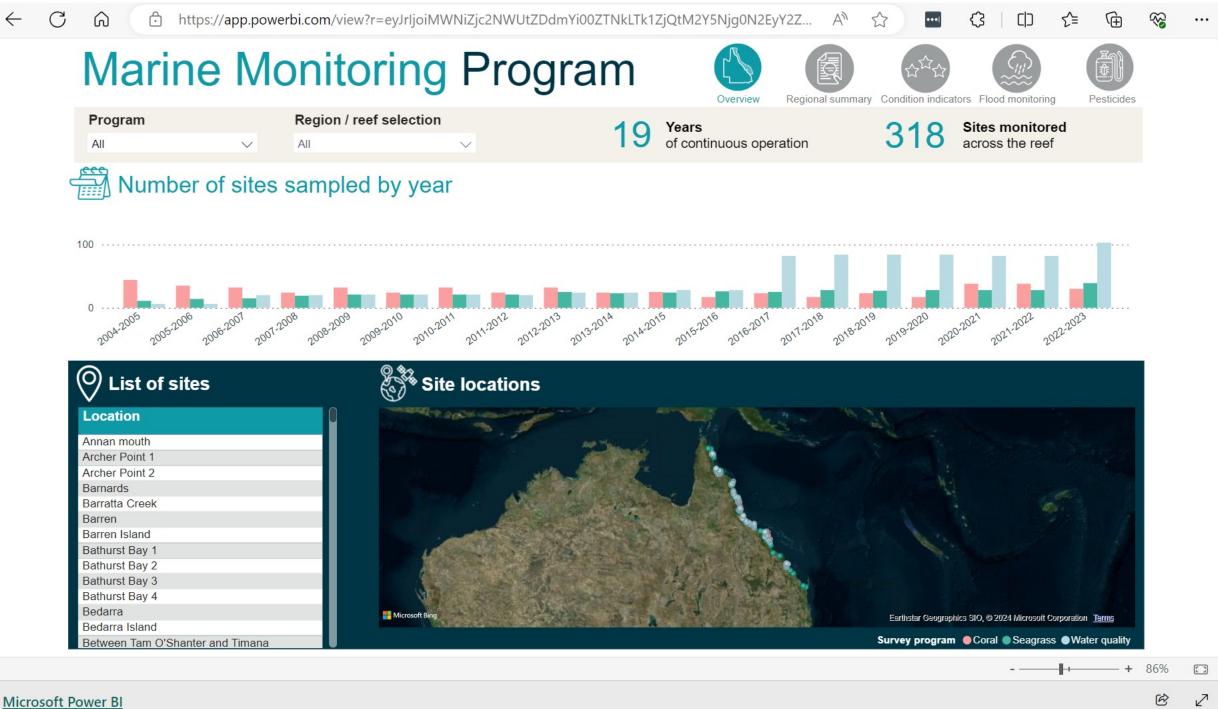






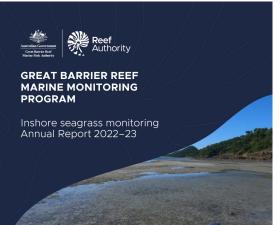


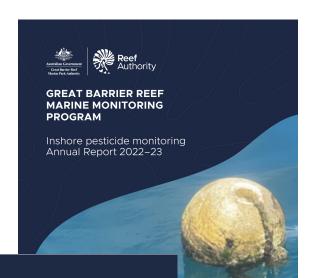




#### 2022-23 Annual Reports



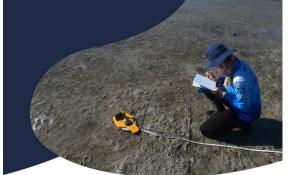








**GREAT BARRIER REEF MARINE MONITORING PROGRAM** SUMMARY BOOKLET 2022-23















# THANK YOU

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