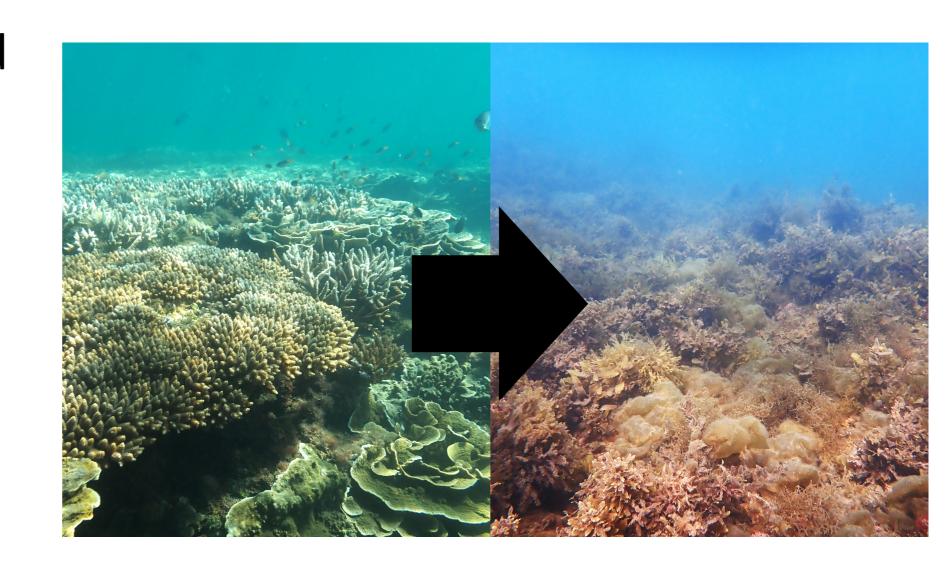


Background

- when corals die, seaweed can quickly move in
- Once established, seaweed is a strong competitor against corals
- Can lead to shifts in reef community from coral to seaweed



Background

 theoretically, removing the seaweed could help corals bounce back

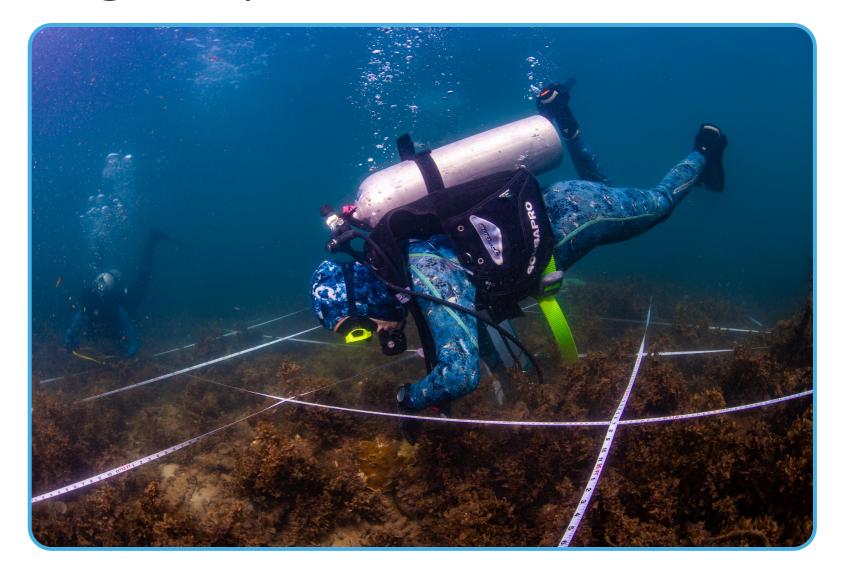
 not well tested on GBR, unknown what the effects are on different reef members



What work/monitoring do you do on

Magnetic Island?

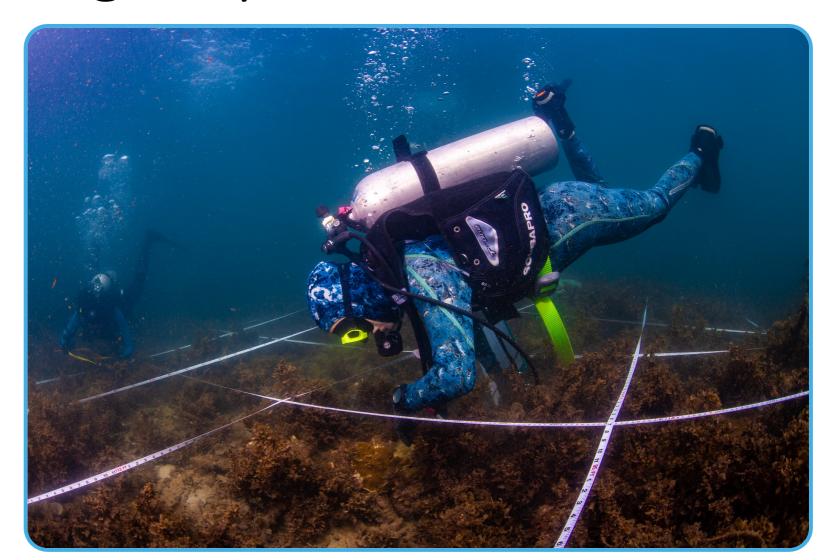
- macroalgae density and canopy height
- photograph benthic communities
- transects of benthic communities
- count and measure coral juveniles (on the reef and on settlement plates)



What work/monitoring do you do on

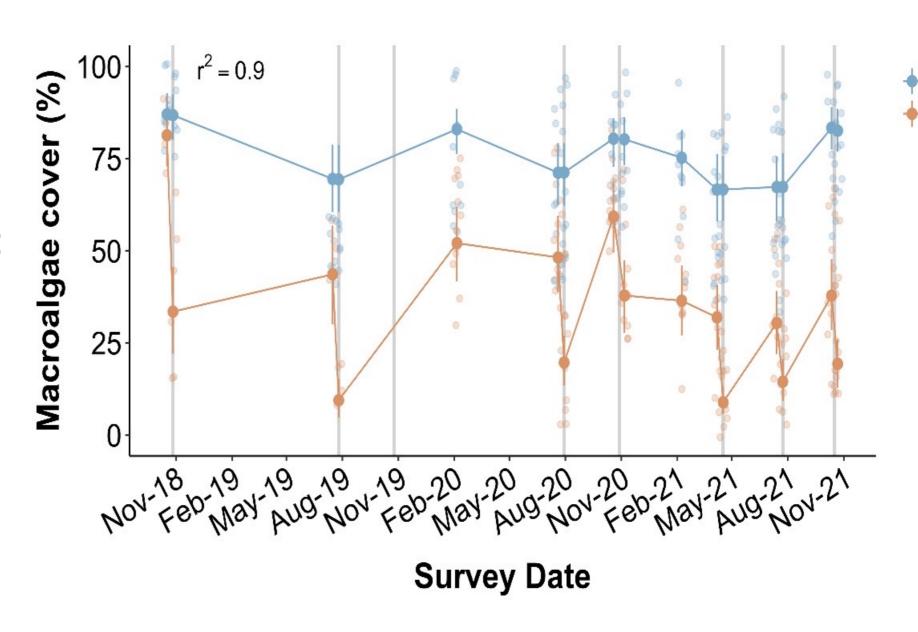
Magnetic Island?

- count fish
- coral genetics
- measure turf algae
- sediment deposition
- current meters
- coral bleaching
- microscopic community development
- "assisted settlement" of coral larvae



 lots of data, lots of results

- lots of data, lots of results
- take-home messages:
 - macroalgae growth is suppressed after 3 years of removal

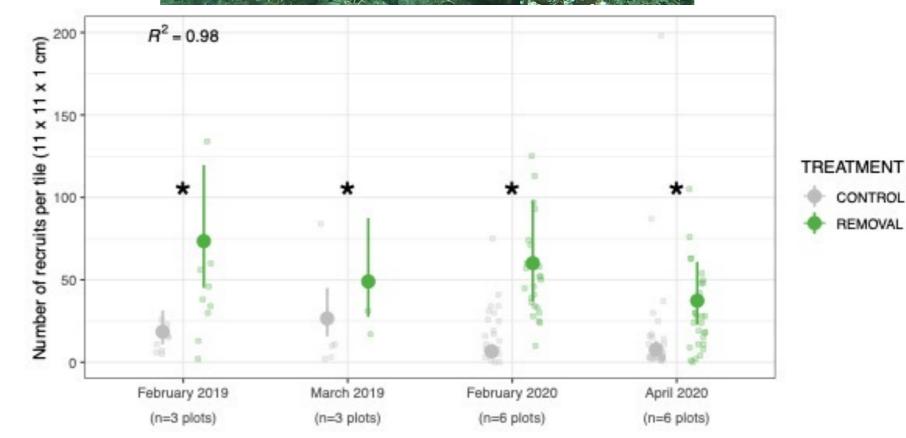


Control

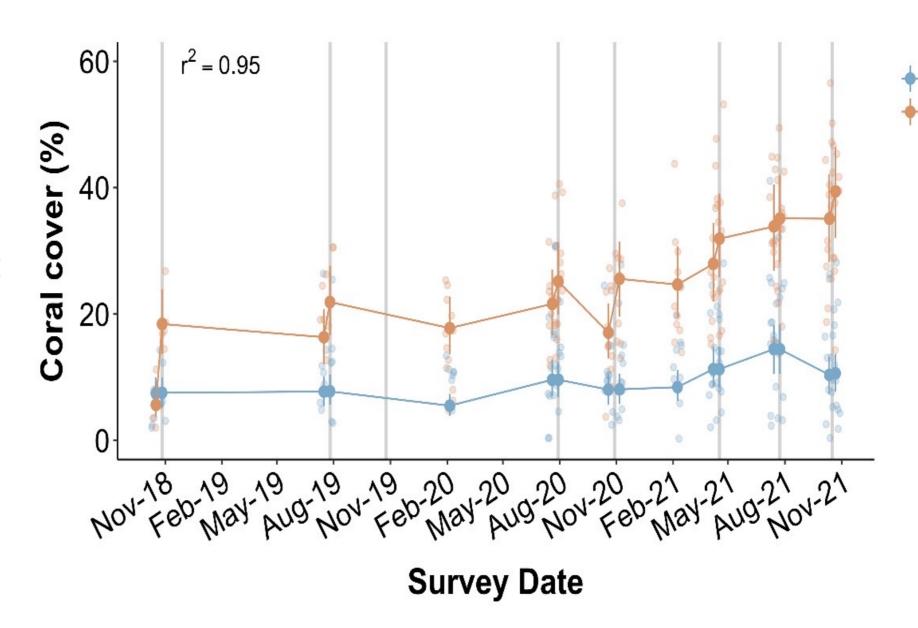
Removal

- lots of data, lots of results
- take-home messages:
 - macroalgae growth is suppressed after 3 years of removal
 - baby corals settle three times more in removal plots





- lots of data, lots of results
- take-home messages:
 - macroalgae growth is suppressed after 3 years of removal
 - baby corals settle three times more in removal plots
 - coral cover increased by 300% in removal plots



Control

Removal

What are the gaps, if any?

- we would like to redo our sediment deposition surveys now that dredging has begun
- we would like to measure algae at more sites around the island, and more frequently – to find out how patchy the algae is, and look at seasonal growth dynamics
- proof of concept for transferring method to community groups

Are there any projects or ways the community could get involved?



- 3 citizen science trips per year, run with Earthwatch
- measuring algae can be done easily, with simple equipment
- third site for algae removal at larger scale?