

Flinders University and DC Robe Enterprise PhD Scholarship Coastal Research

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Enterprise Scholarships

Students enrolled in the Flinders University PhD Enterprise Scholarship undertake a 3-3.5 year research project that addresses real-world challenges identified in collaboration with the industry partner.

The PhD Enterprise Scholarship also incorporates a 3-month internship that integrates the PhD student into the Industry team.

As a co-funded PhD, the Industry/Council organisation and Flinders each cover 50% of the costs of a PhD scholarship for up to 3.5 years.

The potential cost to an industry partner is approximately \$66,000 over the 3.5 years, with Flinders committing an equal amount.

Industry/Council would invest into co-supervising the PhD student, enable the internship, and provide access to data, information and equipment. Typically add \$15-20k in additional funding.

We (BEADS Lab) have two Enterprise scholarships to date:

Ben Perry (Flinders BEADS Lab) & CPB (DEW).

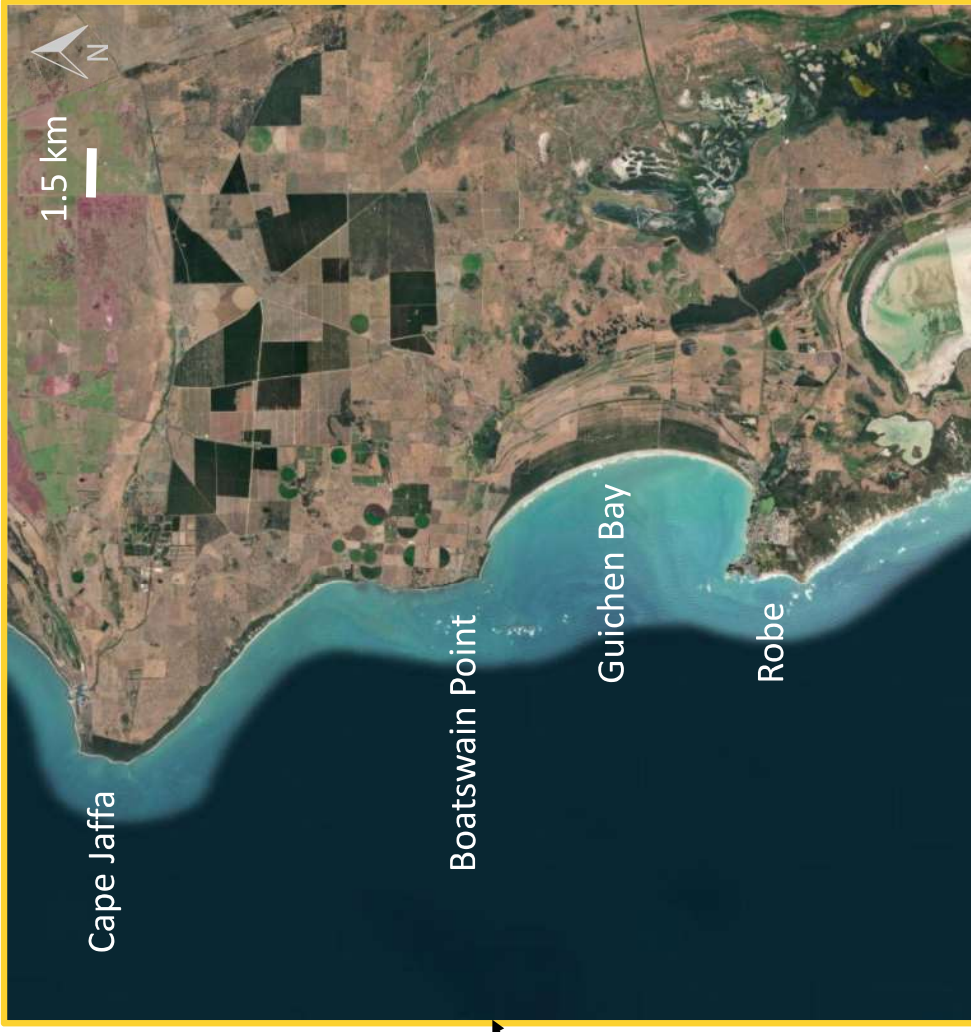
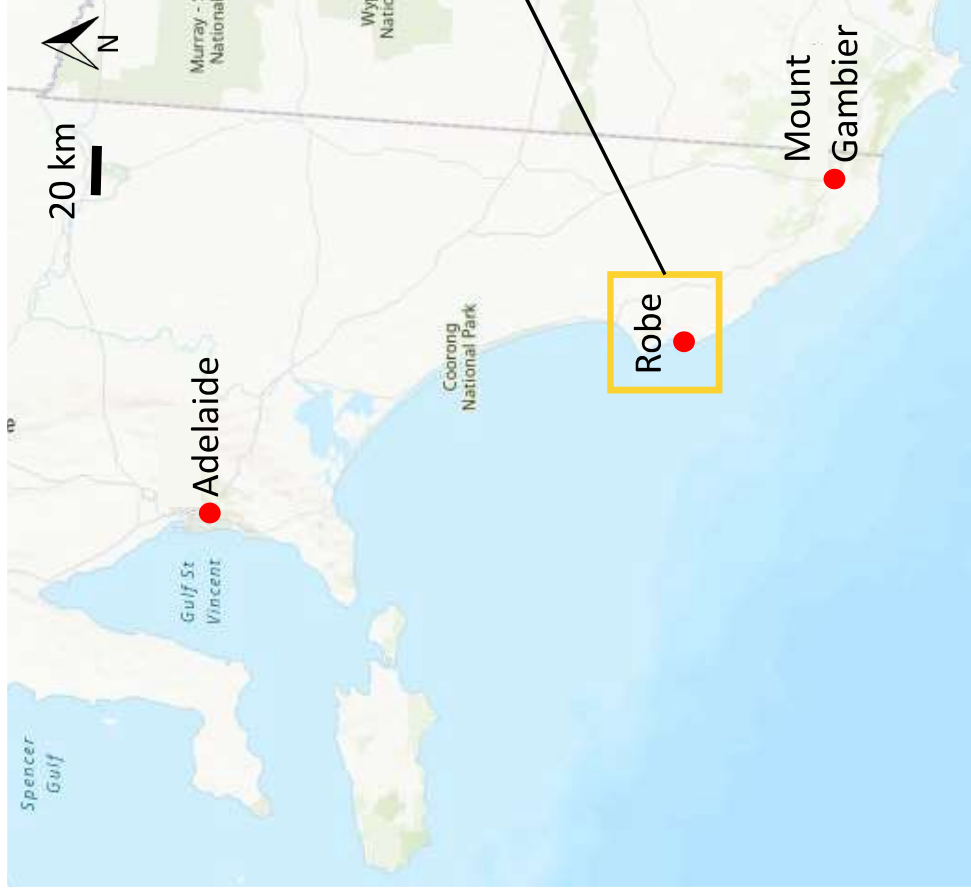
Conducting research on the Adelaide Metro coast examining and modelling wave dynamics, sediment transport, impacts of storms and climate drivers on changes to Adelaide beaches.



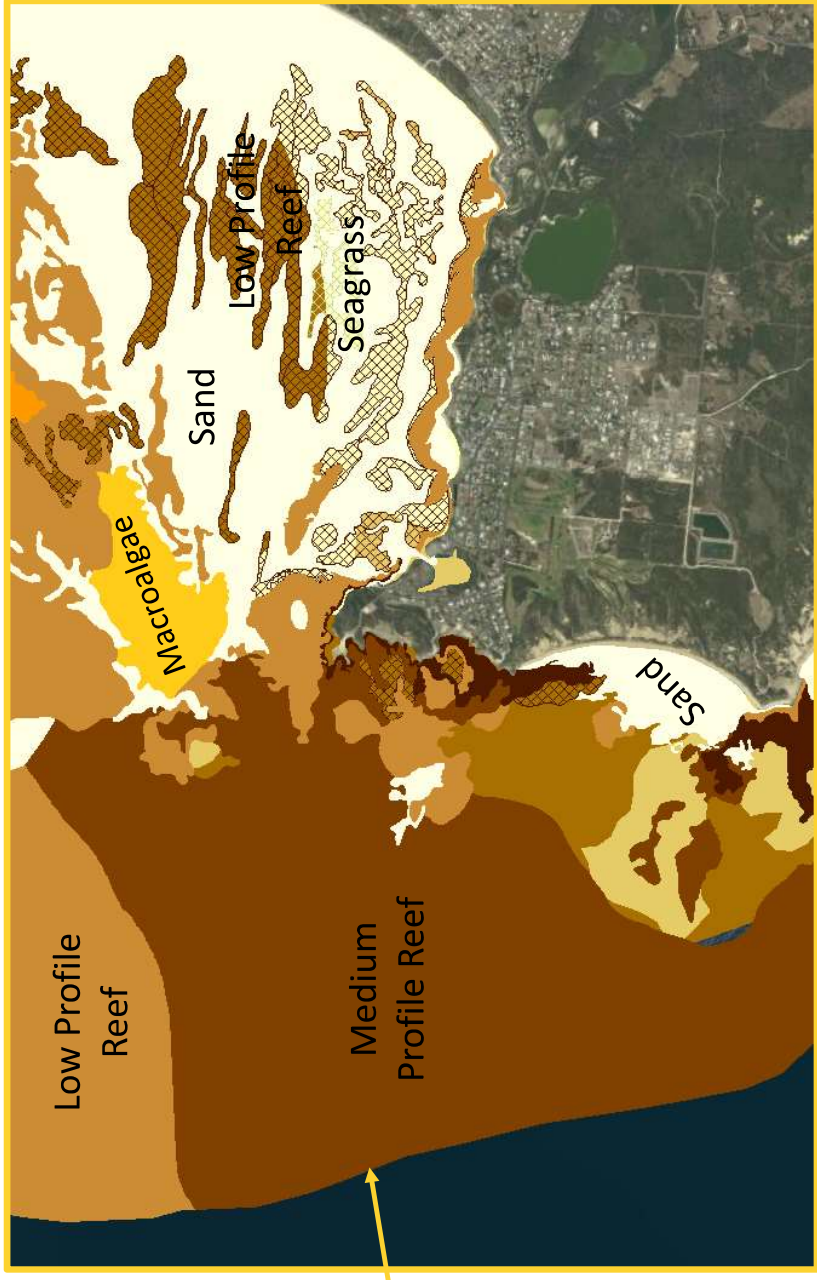
Charlotte Uphues, BEADS Lab) and District Council Robe

Conducting research on coastal processes in the Robe region.

Project site Robe, SA

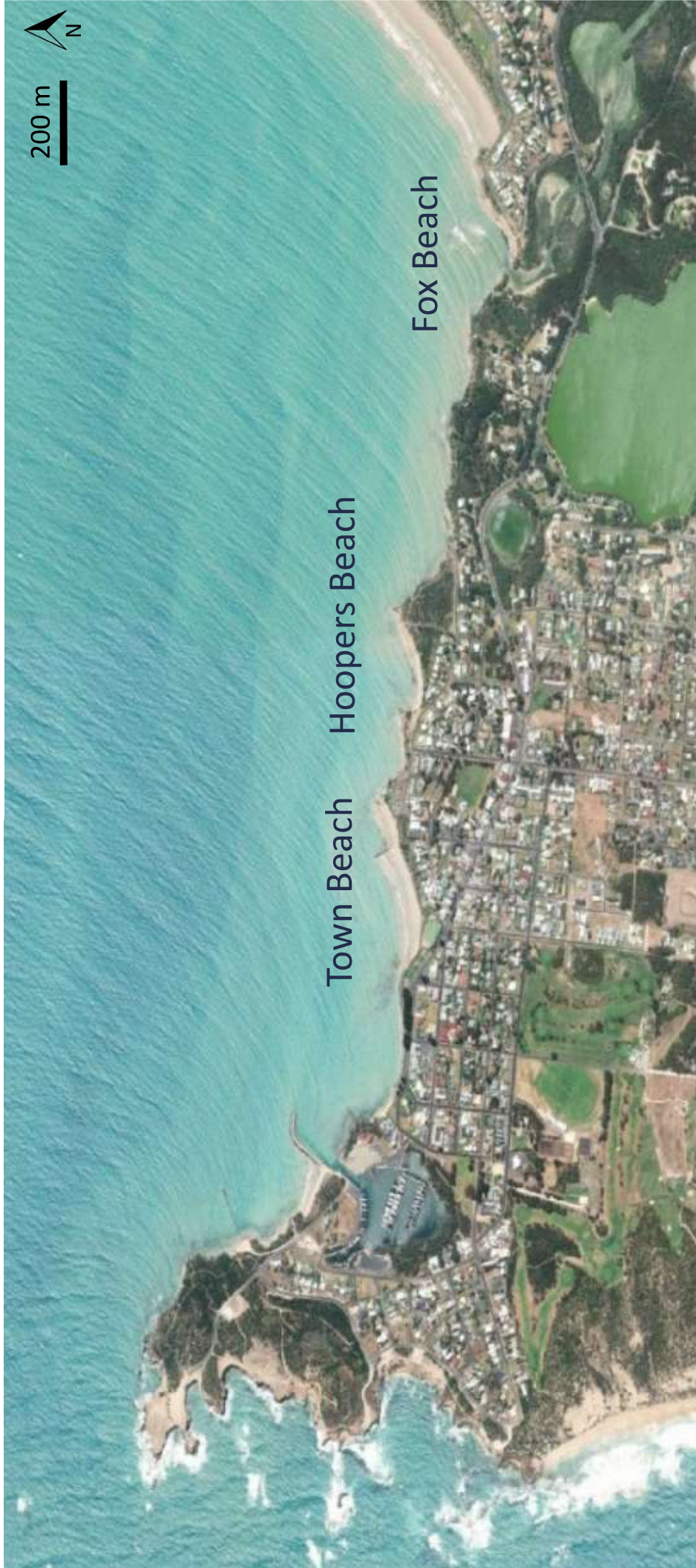


Complex coastal environment



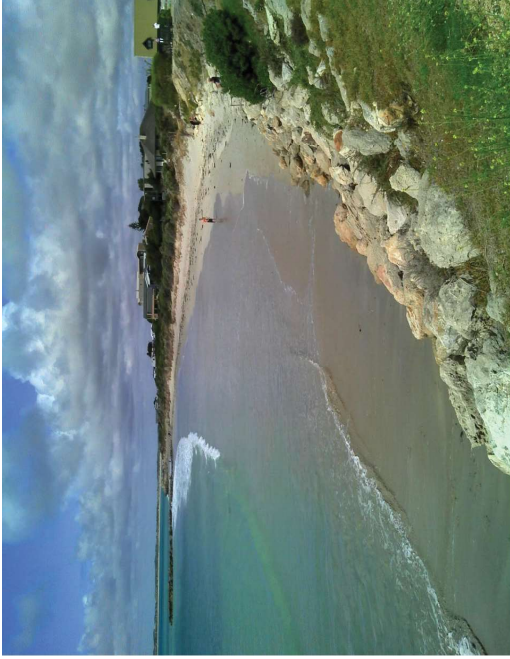
NatureMaps (<http://spatialwebapps.environment.sa.gov.au/naturemaps/>)

Coastal Management



Erosion of Robe's Beaches

Town Beach, March 2013



Fox Beach, June 2020

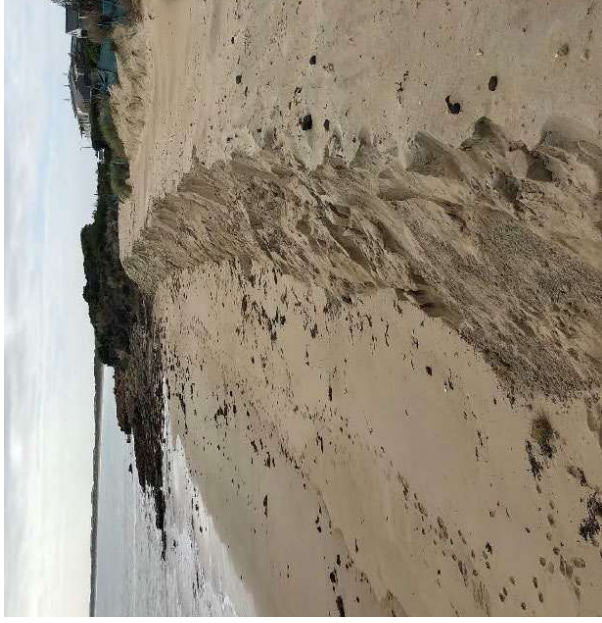
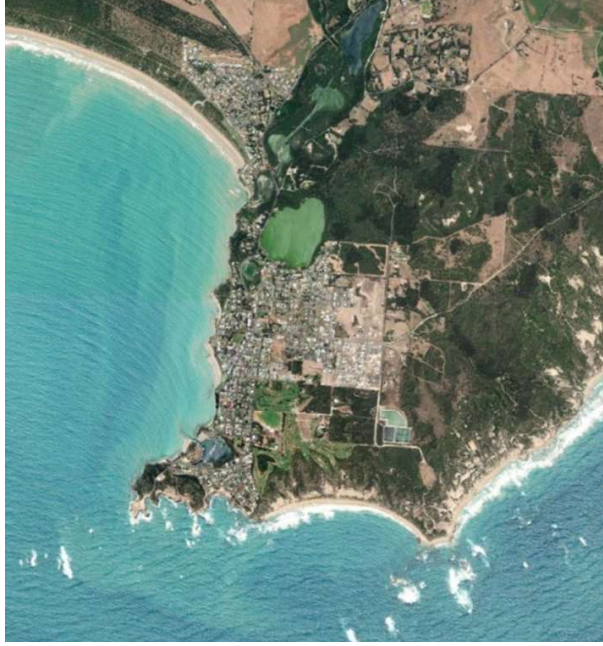


Hoopers Beach, June 2022

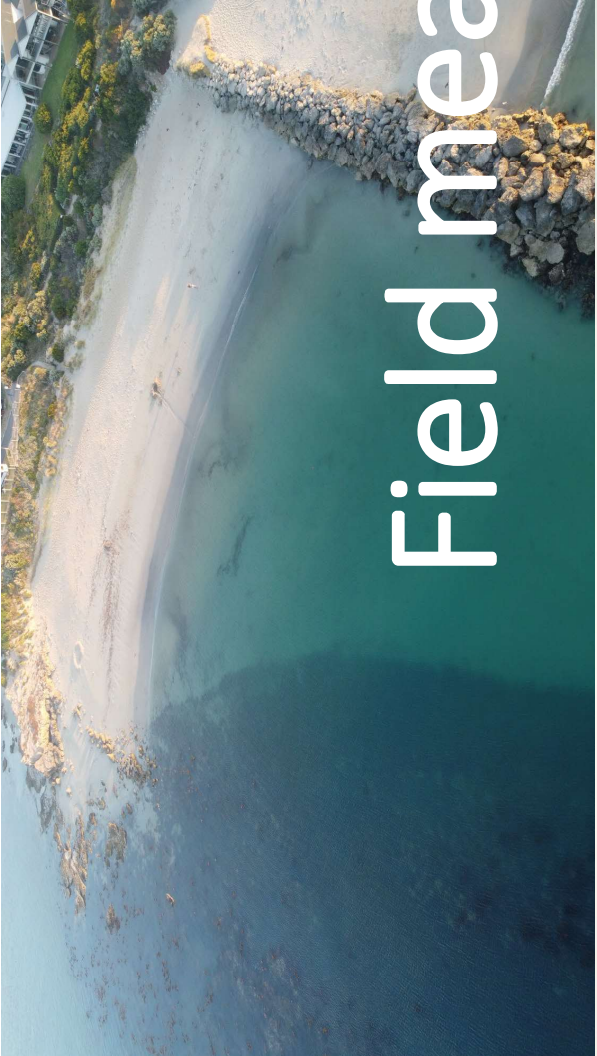


Research Objectives

- | | | |
|-------------------------------------|---|--|
| Understand Sediment pathways | Understand erosion/accretion processes | Examine Nature-based solutions |
| - Long-term, large scale | - Short-term, smaller scale | - Nourishment, artificial reefs |
| - Headland bypassing | - Influence of reefs | - Future climate scenarios |
| - Field measurements | - Field measurements | - Delft 3D and XBeach numerical models |
| - Delft 3D numerical model | - XBeach numerical model | |



The following slides are not available as they contain unpublished scientific data



Field measurements

