



Competitive Angling as a Scientific Tool: Project Findings

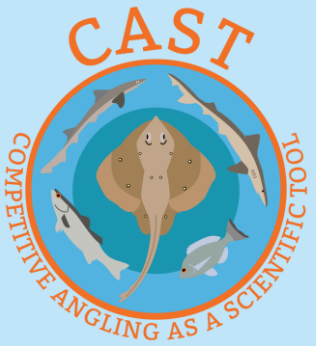
Dr Christina Hunt, Georgina Banfield, Dr Obinna Umeh, Professor Gordon Watson, Dr Ian Hendy

Project partners:



Funded by:





What is the CAST project?



Aim: Generate long term data to support sustainable fisheries



Develop a
standardised
data collection
method





What is the CAST project?



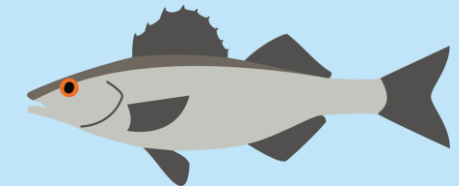
Aim: Generate long term data to support sustainable fisheries



Develop a
standardised
data collection
method



Provide relevant data to
inform fisheries
management





Sea Angling Classic 2024



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34 boats took part

433 fish were caught, photographed, and released





Sea Angling Classic 2024



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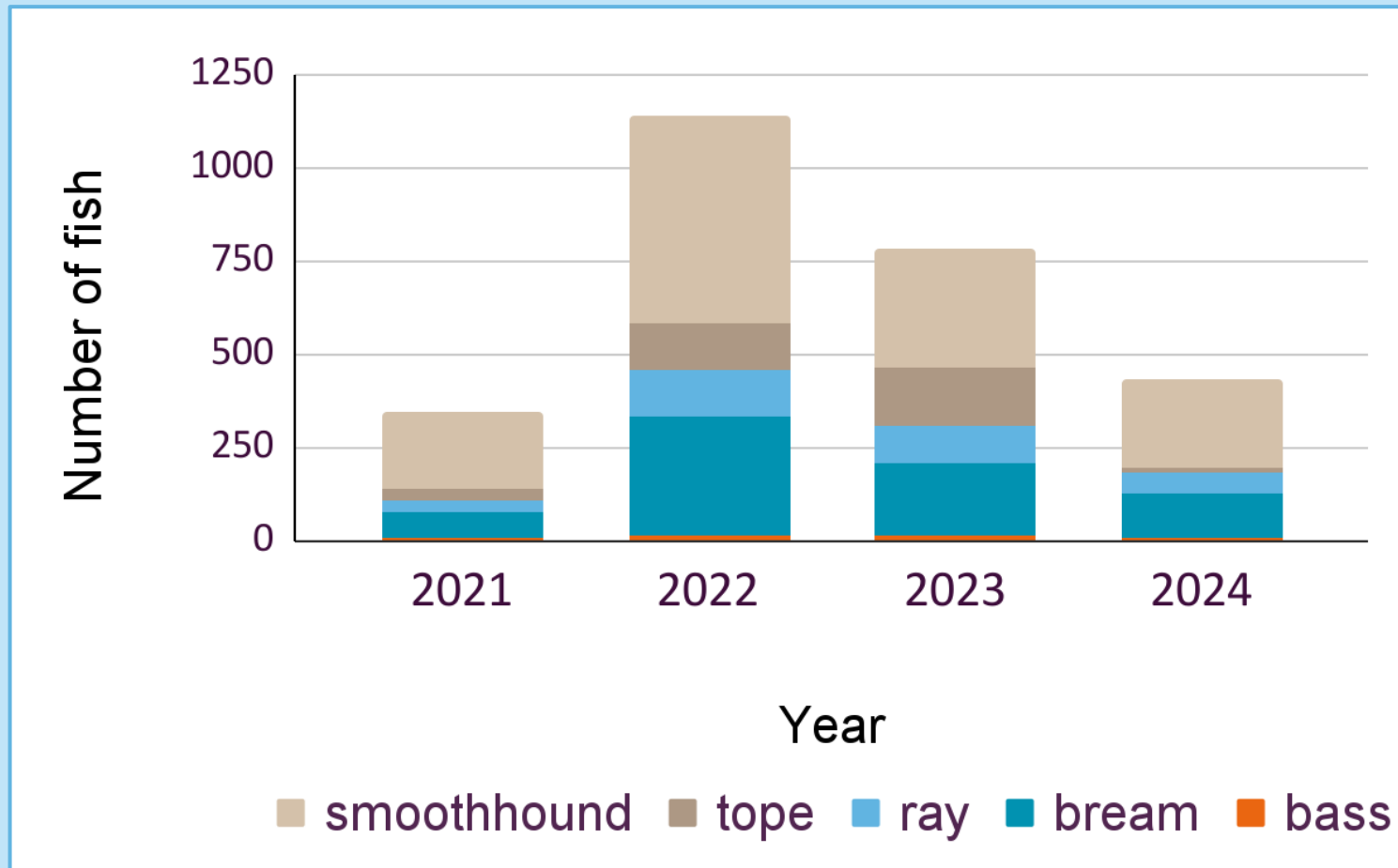




Enhanced species data



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2701 fish

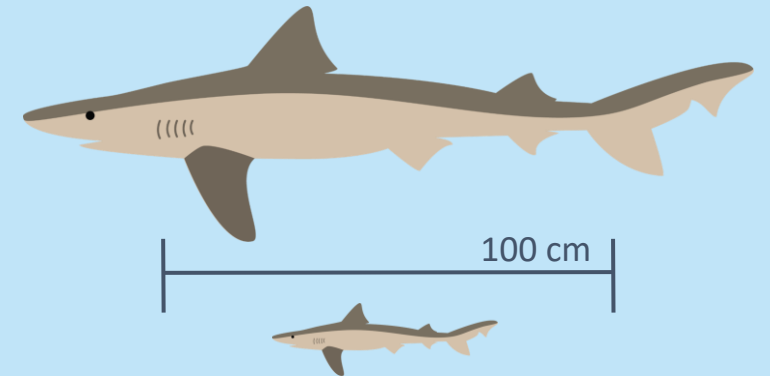
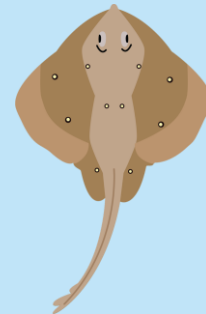
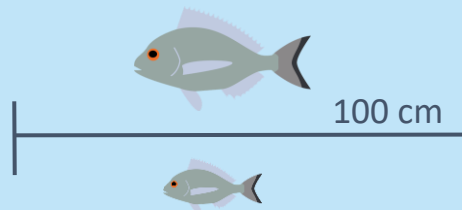
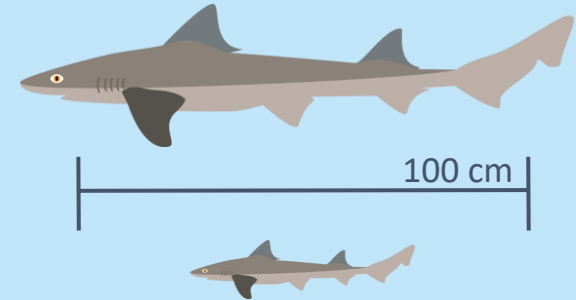
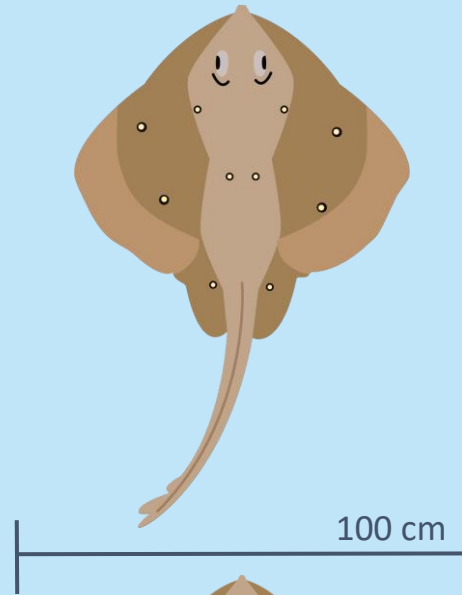
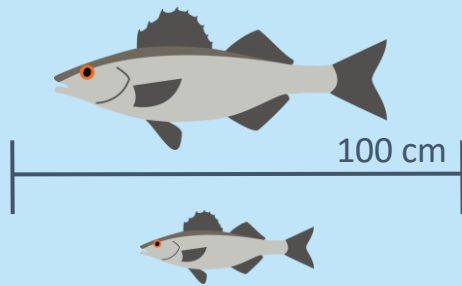
Photo
Size
Location



Enhanced species data



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Shark and ray ID



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Shark and ray ID



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8/13 smoothhounds
identified



All were starry smoothhound
(*Mustelus asterias*)

Shark and ray ID



Small-eyed ray
(*Raja microocellata*)

4/7 rays
identified



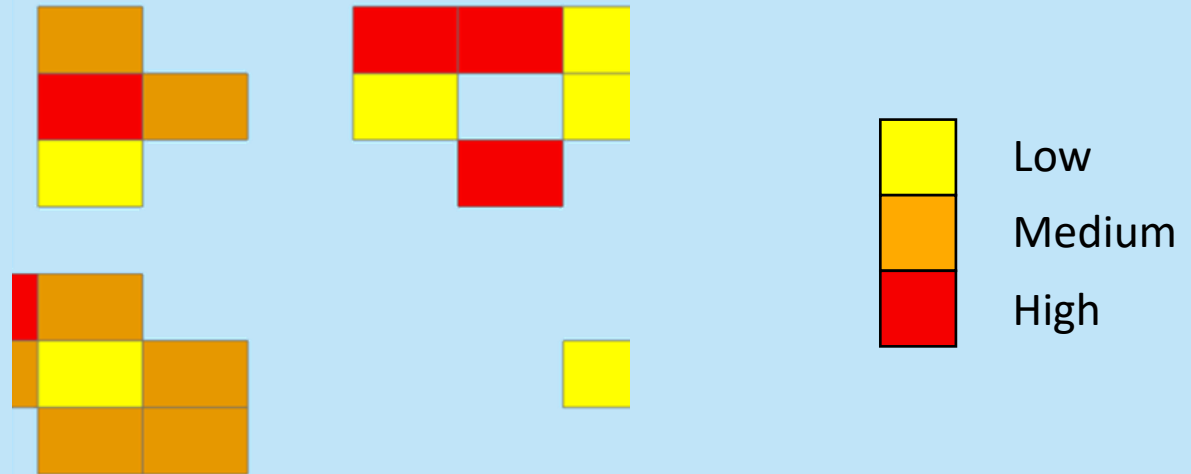
Spotted ray
(*Raja montagui*)



Catch Per Unit Effort (CPUE)



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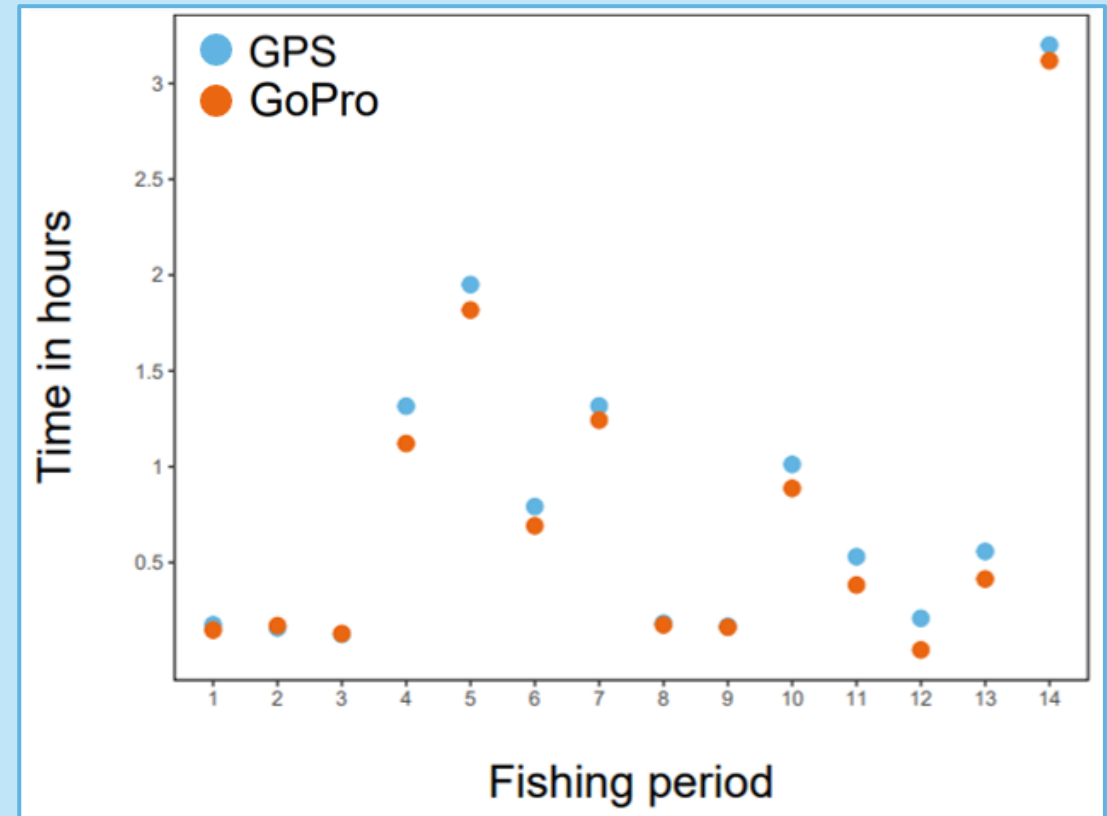
GPS tracker + competition data = Fish caught per hour at each fishing mark



Catch Per Unit Effort (CPUE)



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Habitat use- associated communities



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eDNA sampling

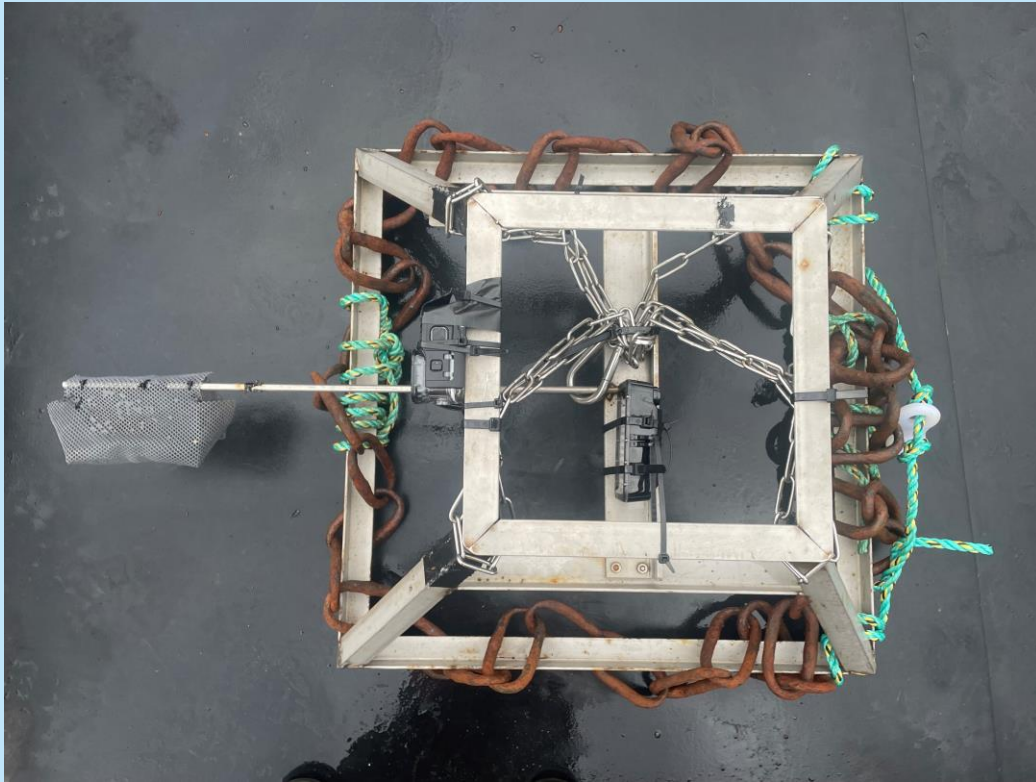




Habitat use- associated communities



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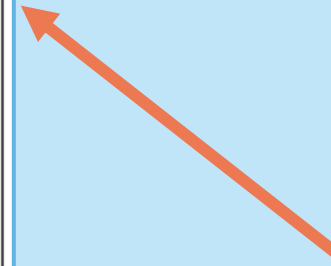
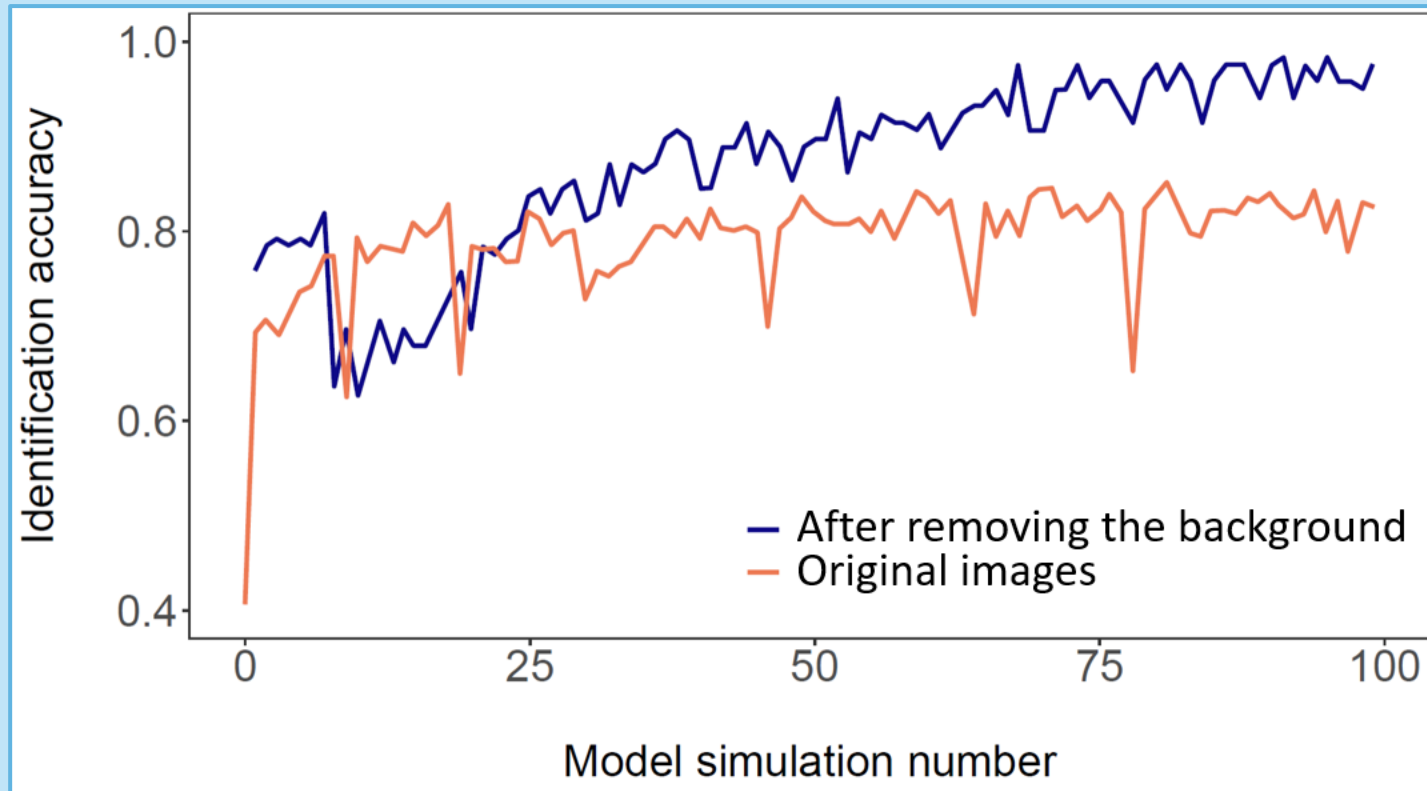
BRUV: Baited Remote Underwater Video



Artificial Intelligence (AI) model



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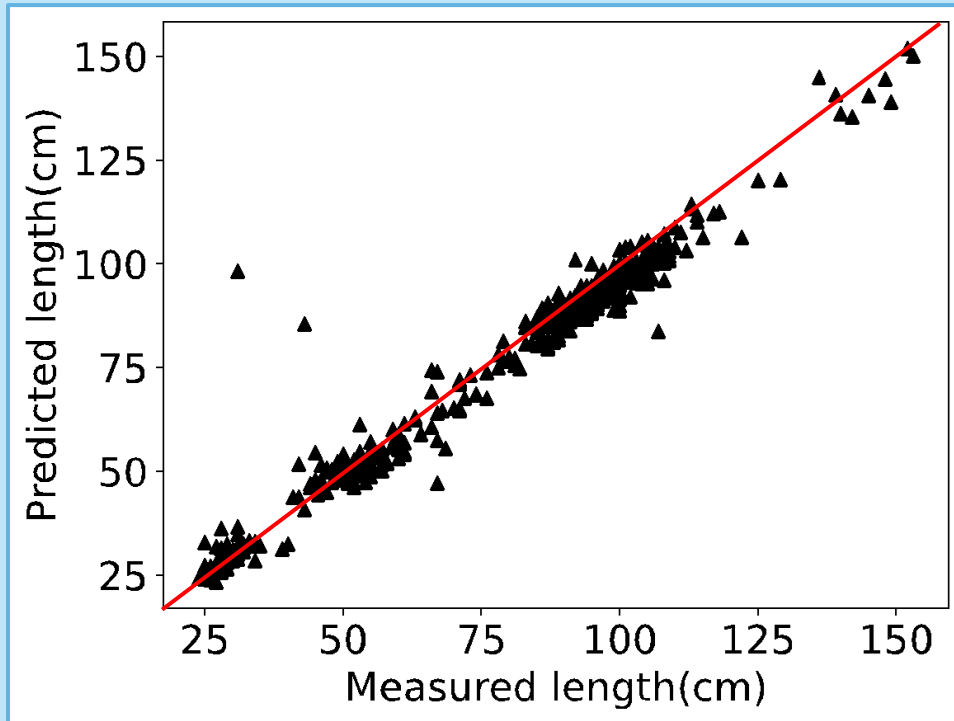


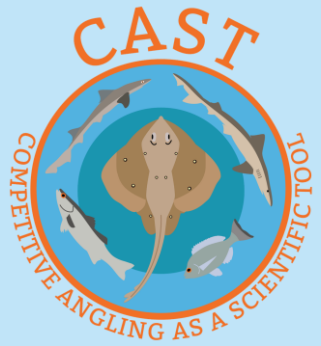


Artificial Intelligence (AI) model



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The future...



UK and Europe

Marine and freshwater

Boat angling and fly fishing



Thanks to the whole CAST team



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Dr Ian Hendy &
Prof Gordon Watson
Project leads



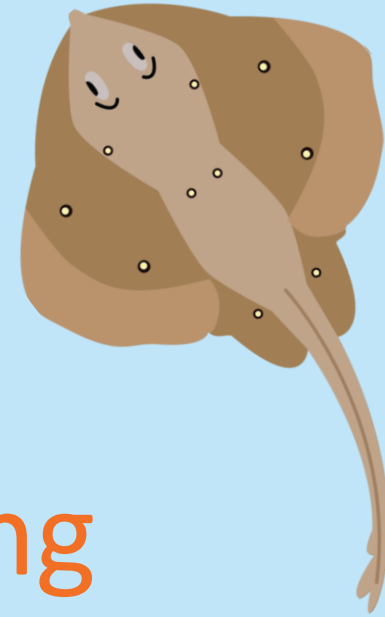
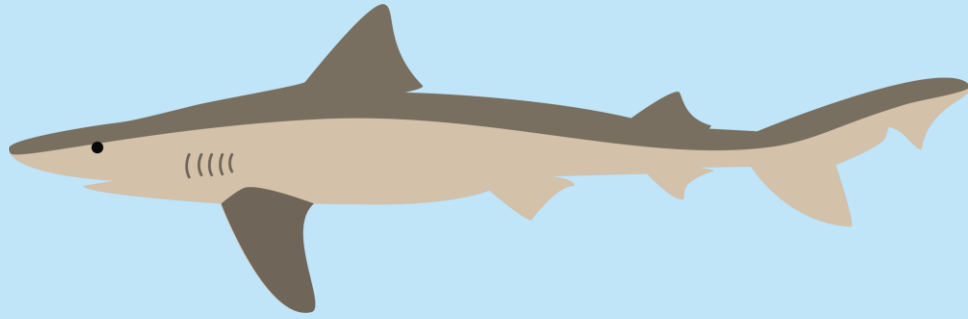
Georgina Banfield
Research Associate



Obinna Umeh
Senior Research Associate



Nellie Piat
Intern student



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Thanks for listening

