

Does scale matter?



How does spatial scale influence our ability to predict and map fish communities?

Importance

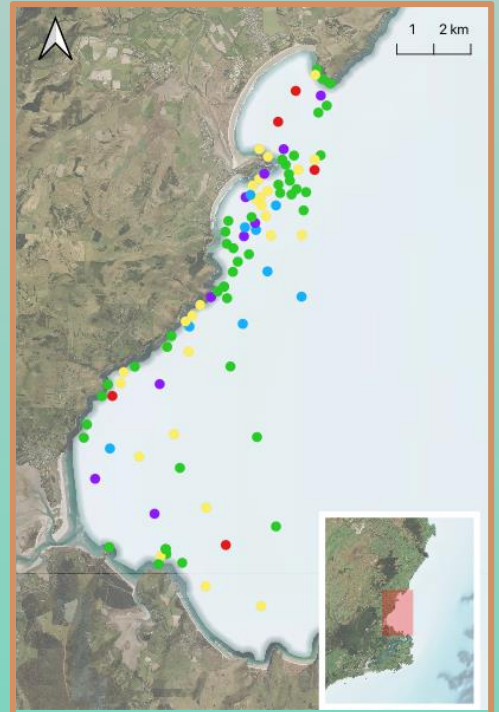
- Fisheries management is shifting from broad regional rules to **fine reef scale** decisions.
- Fish **distributions vary at small spatial scales**.
- Understanding how spatial scale influences communities improves targeted, **effective management and monitoring**.

How?

Use **baited remote underwater videos** (BRUVs) to quantify fish communities, then combine the footage with **environmental data** (depth, slope, rugosity, substrate, flow) before comparing models to test **how scale resolution affects prediction accuracy**.

Fun fact

NZ has over **100 fishery areas** that are **managed by local communities**



BRUV locations in the East Otago Taiāpure (EOT). Colours represent video quality from (red = poor to green = good). Blue represents uncompleted sites.



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