

# Functional composition and diversity of three zooplankton communities of Santa Catalina Island



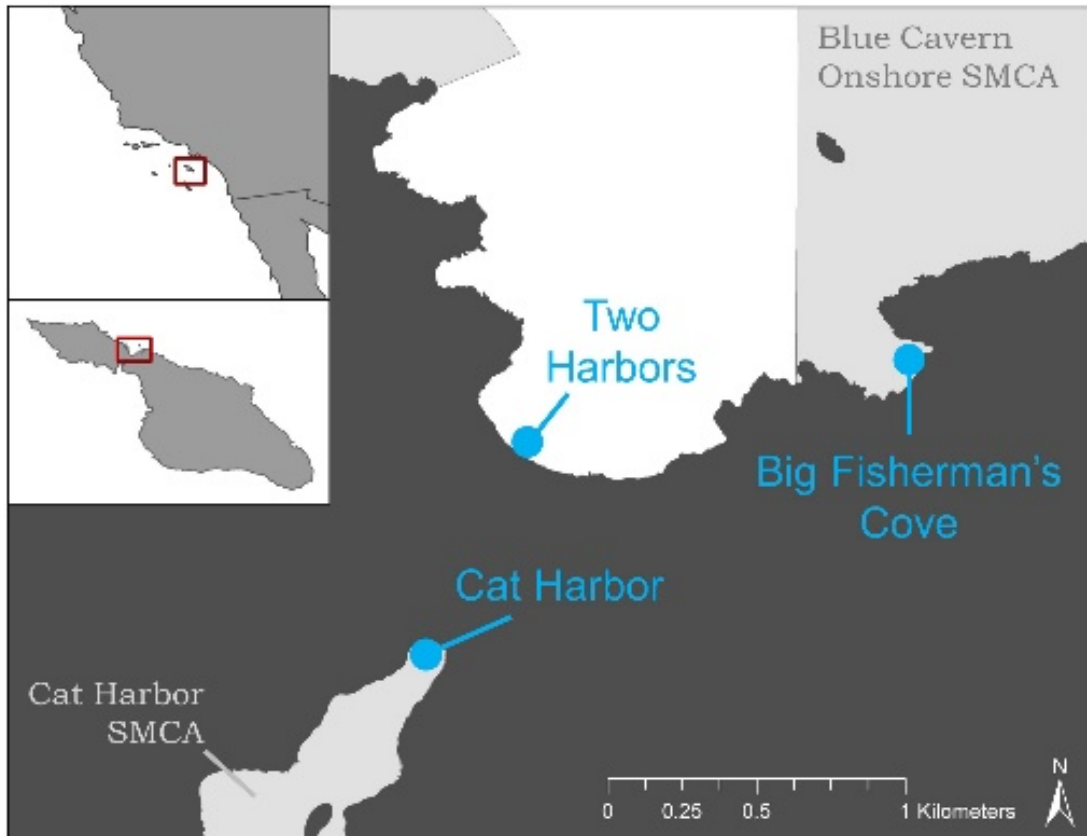




Functional trait approach

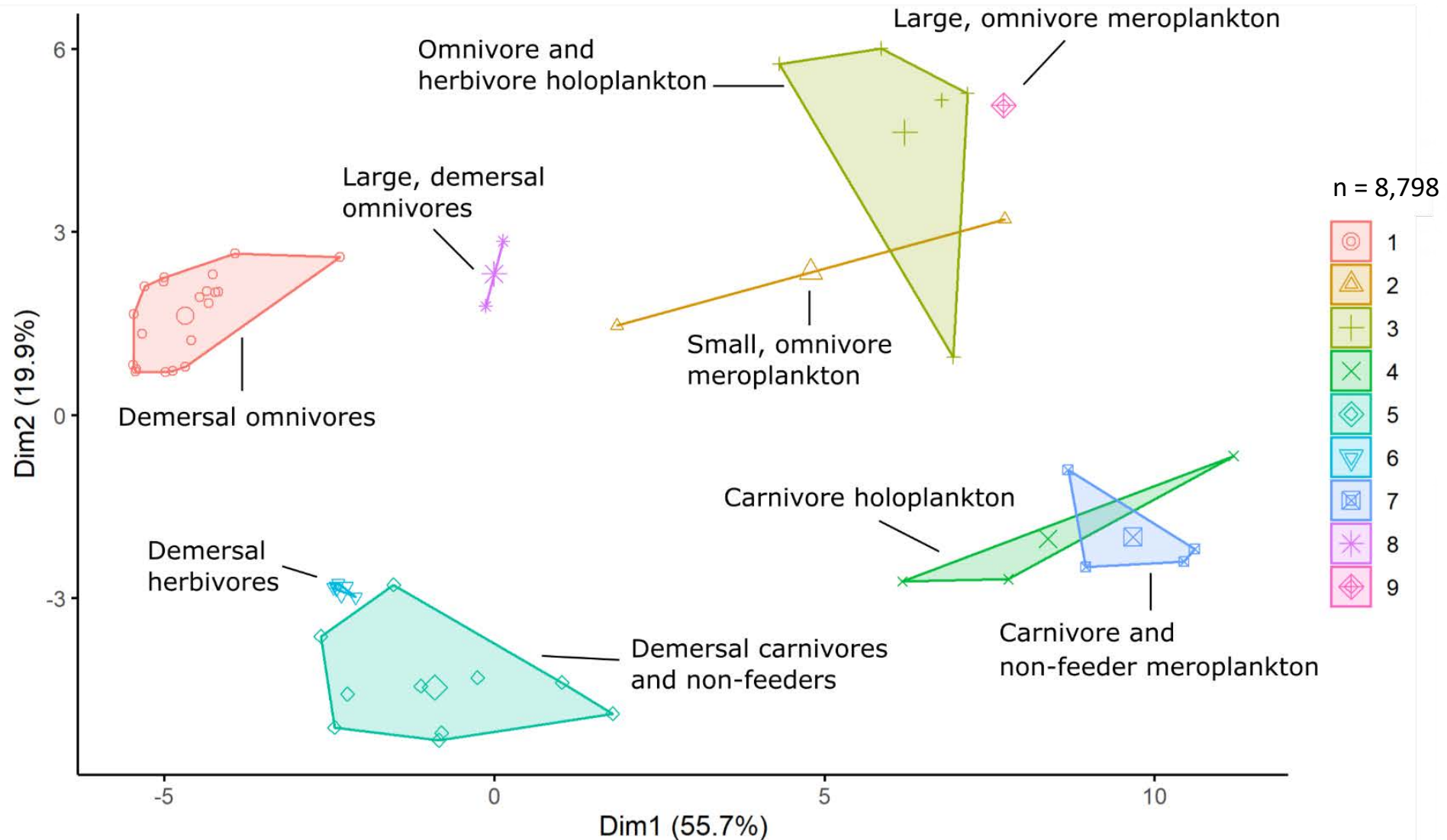
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# Santa Catalina Island

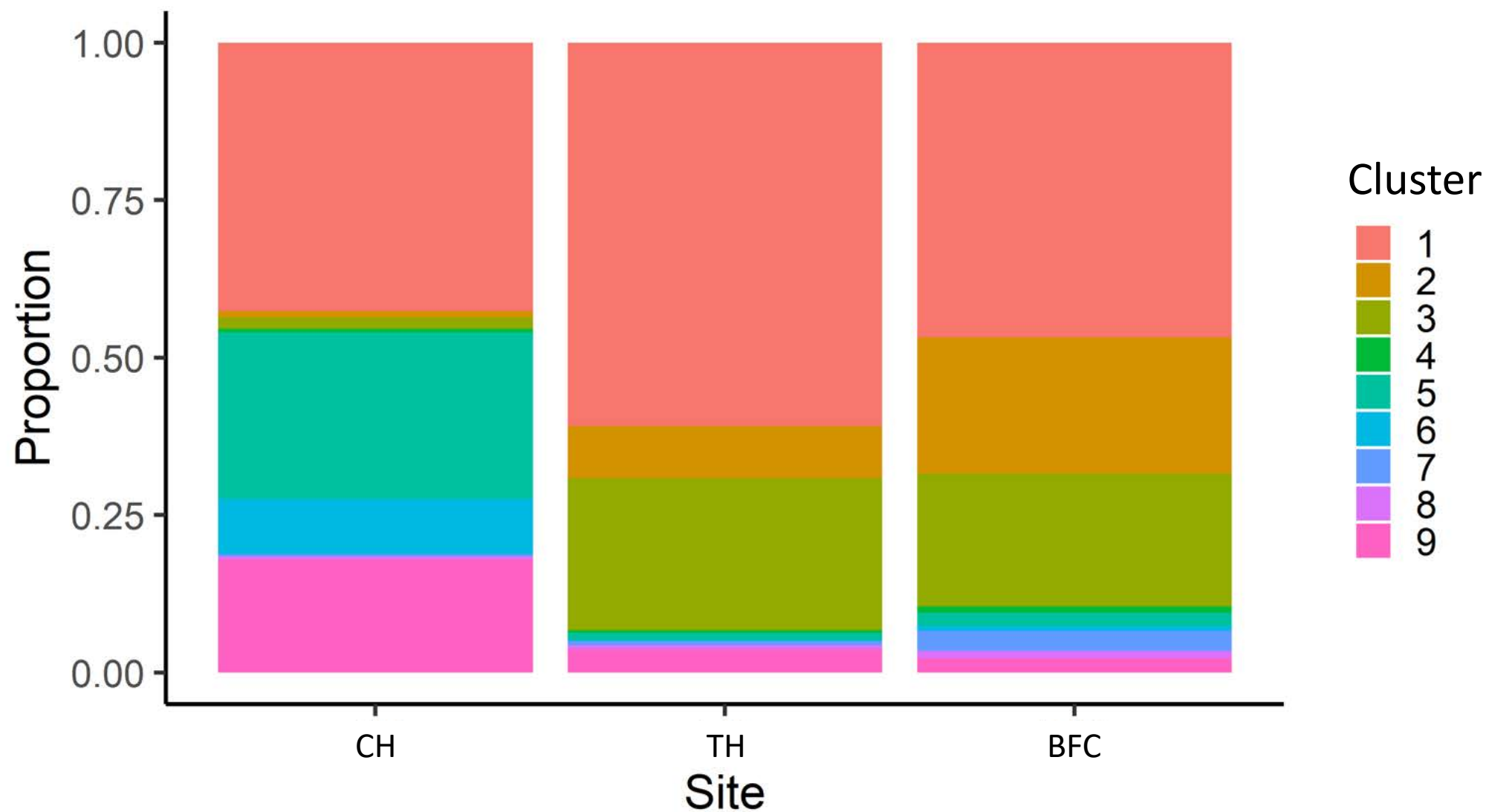


Site	Substrate type	Geographic position	Marine Protection Area
Cat Harbor	Sand	South	Cat Harbor State Marine Conservation Area
Big Fisherman's Cove	Rock	North	Blue Cavern Onshore State Marine Conservation Area
Two Harbor	Sand	North	--

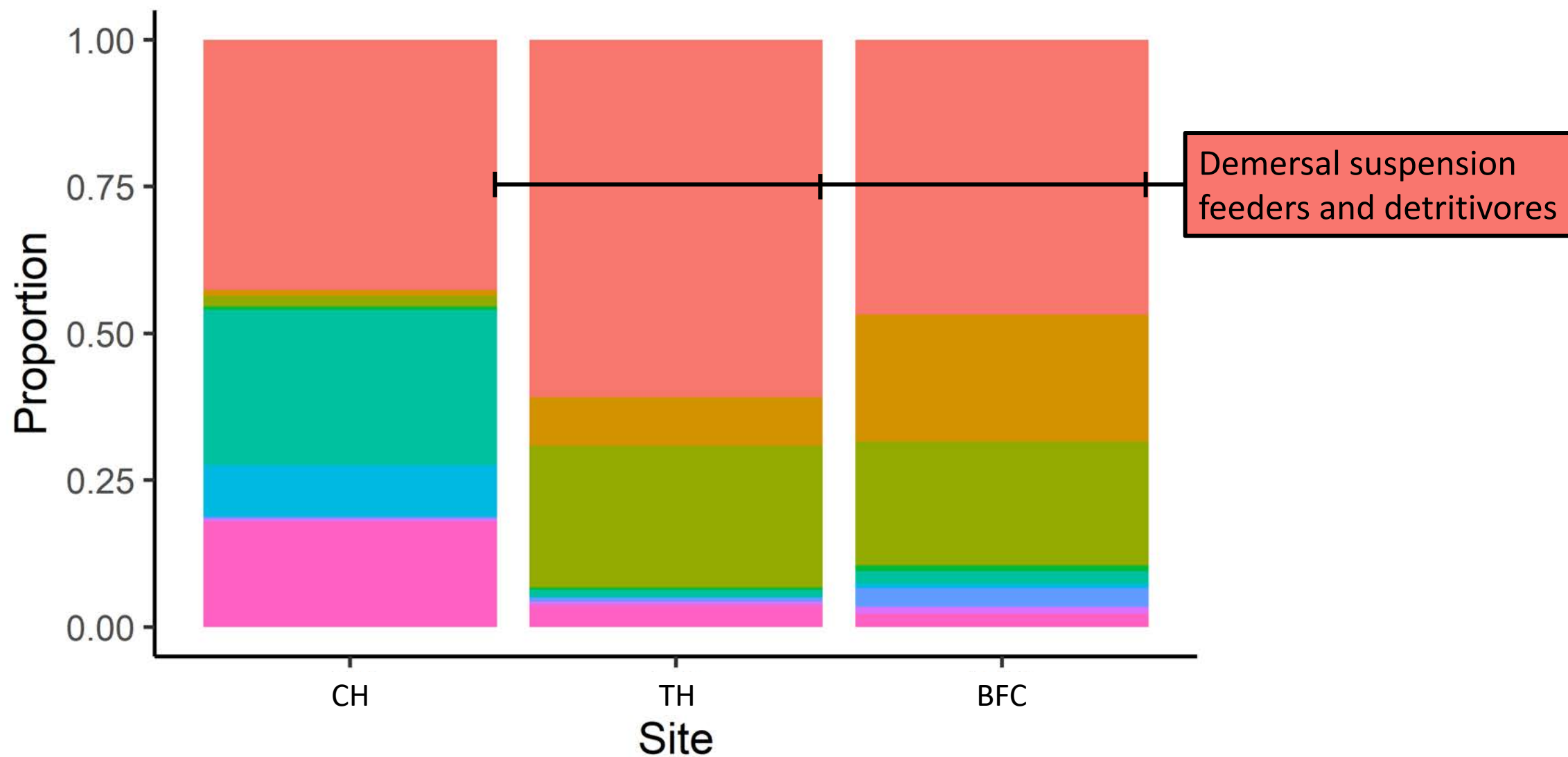
# Communities are constituted of nine functional groups



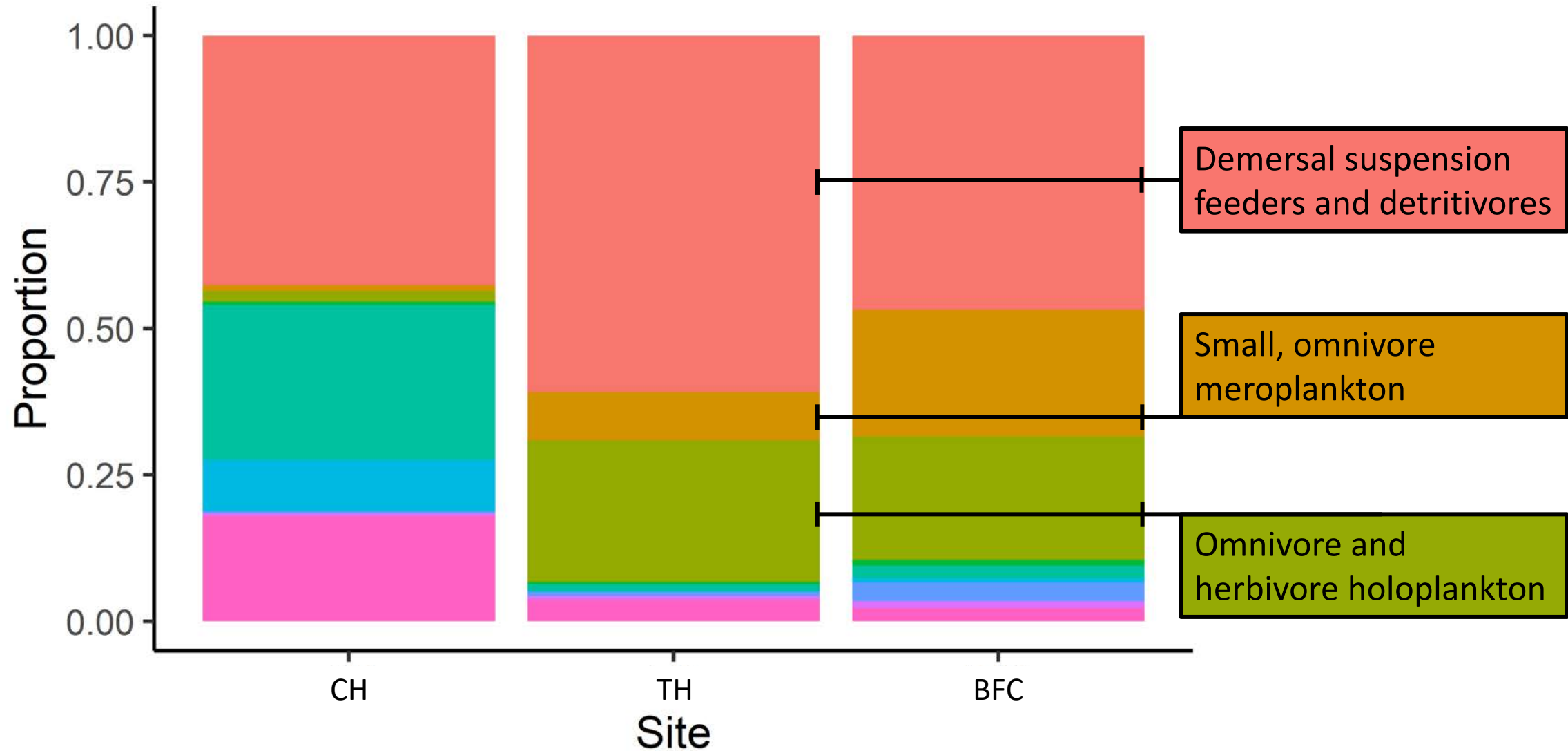
Relative abundances of functional groups did not vary significantly



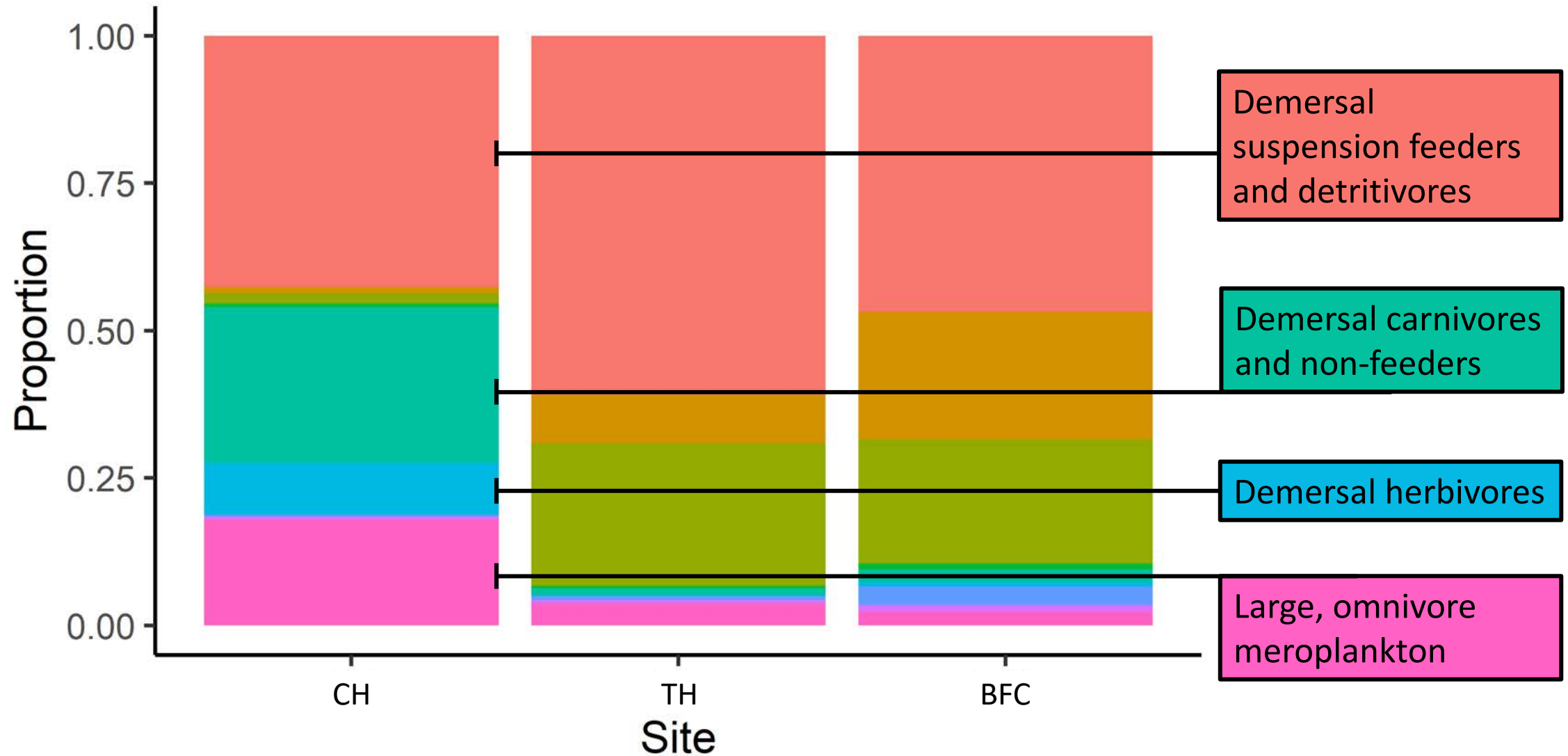
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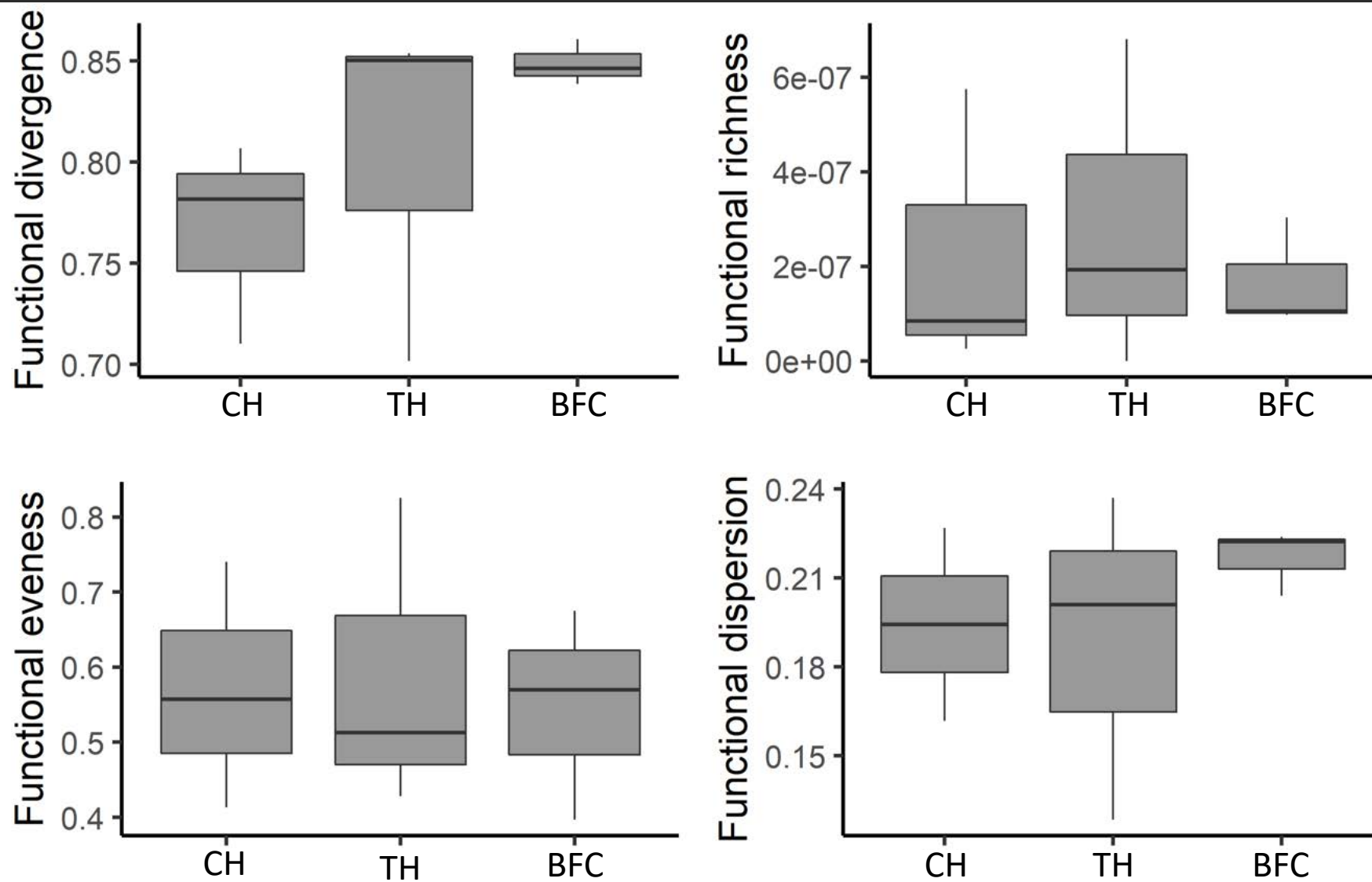


Relative abundances of functional groups did not vary significantly

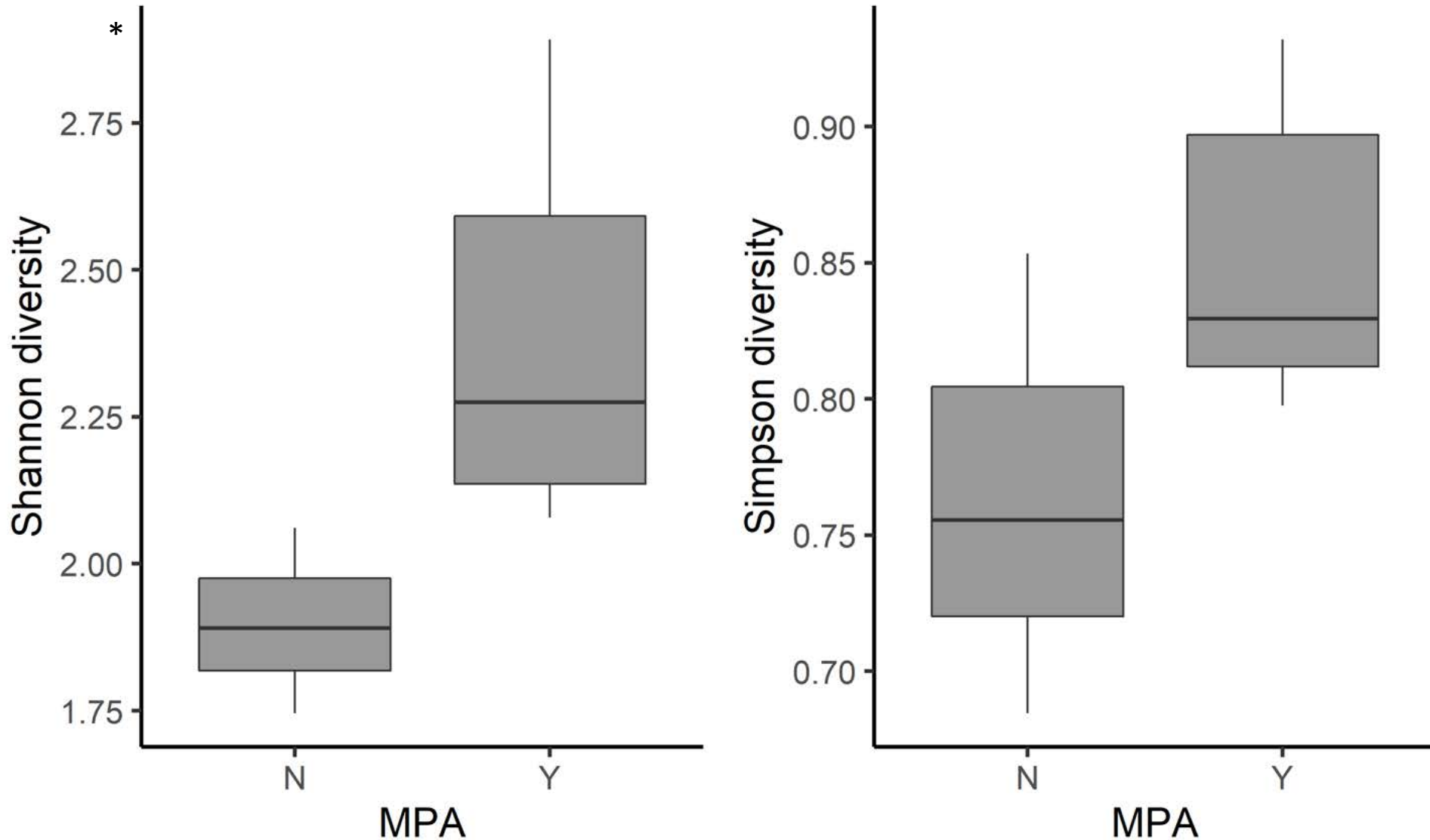




# Functional diversity indices did not vary significantly



# Marine Protected Areas support significantly greater Shannon diversity



# Summary

- These communities express high functional diversity and variability within habitats
- Functional diversity and composition are not significantly different between communities
- Marine Protected Areas augment taxonomic diversity of these communities



# Thank you...

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To my collaborators and mentors,

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- Dr. Rita Mehta

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- The Mehta lab

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- Dr. Baldo Marinovic
- Neosha Kashef
- NOAA
- Ken Norris Center of Natural History



Questions?

