

# Master Project topic 3

**If you are into statistical analysis and modelling  
Big data analysis using PCA and other statistical tools**

The meso- and bathypelagic zones of the oceans or the twilight and midnight zones are still a mysterious place!

Lipid content of organisms can tell us their feeding preference and sometimes their life history traits.

You will be working on a large database on the fatty acid composition of either copepods or fish – or both from the meso- and bathypelagic zones, finding life history traits through fatty acid trophic markers (FATMs).

The final project setup and focus will be finalized with the student – based on their interest.

Questions to be answered:

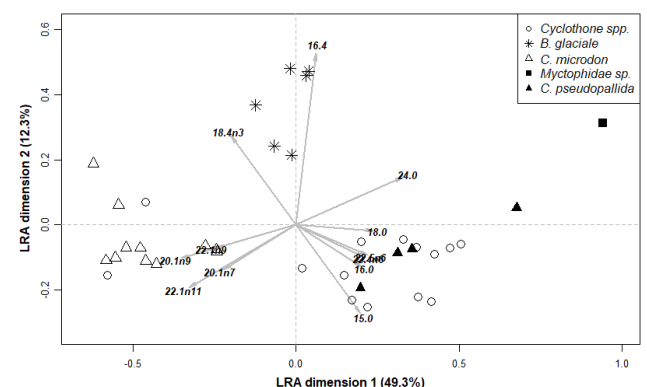
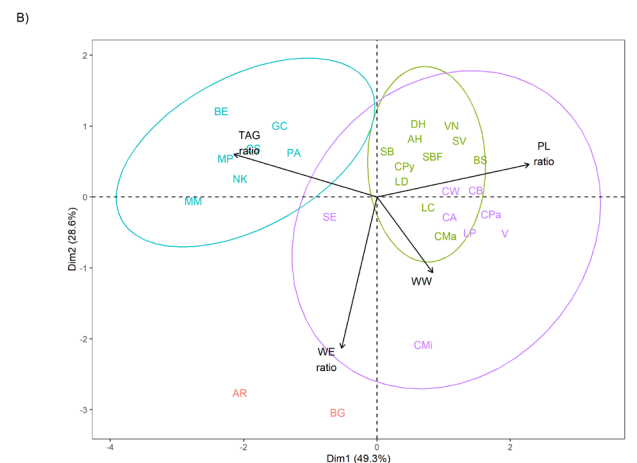
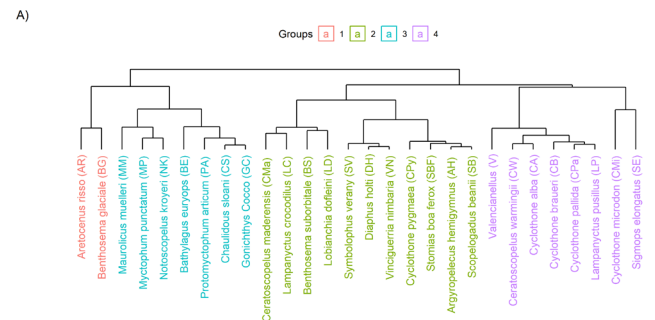
Are there different functional groups at different depths

What are the vertical migration species and

how deep do they go

Feeding cascades

Relation of FATMS to physical environments.



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