

Sevilla  
Stable isotopes

21.02.2022

# Trophic dynamics in aquatic ecosystems: Insights from compound-specific stable isotopes.

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aquatic research



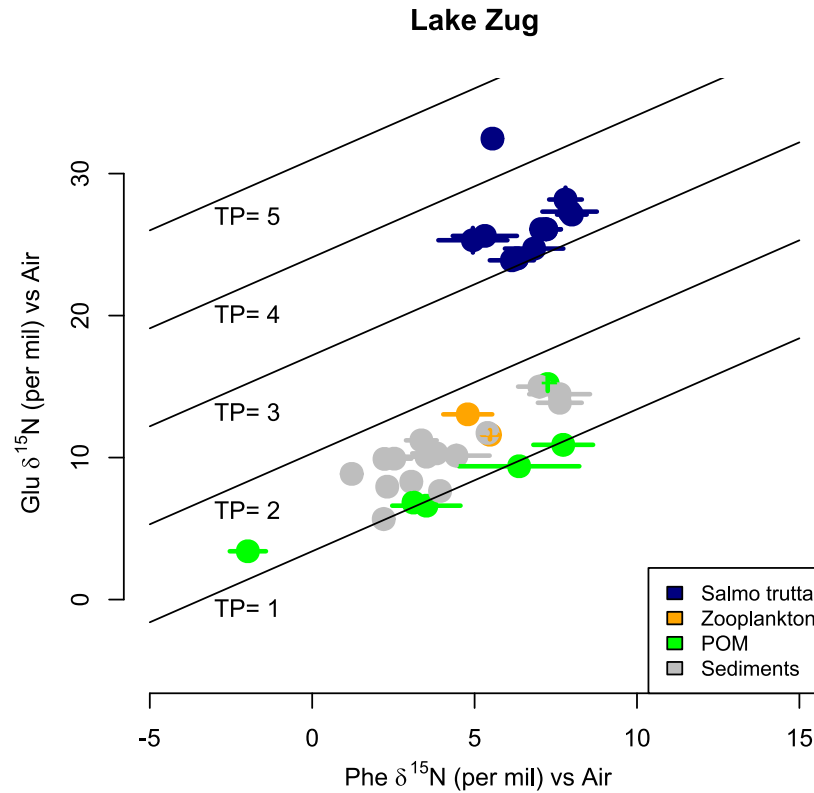


## Origin and fate of organic matter in inland water





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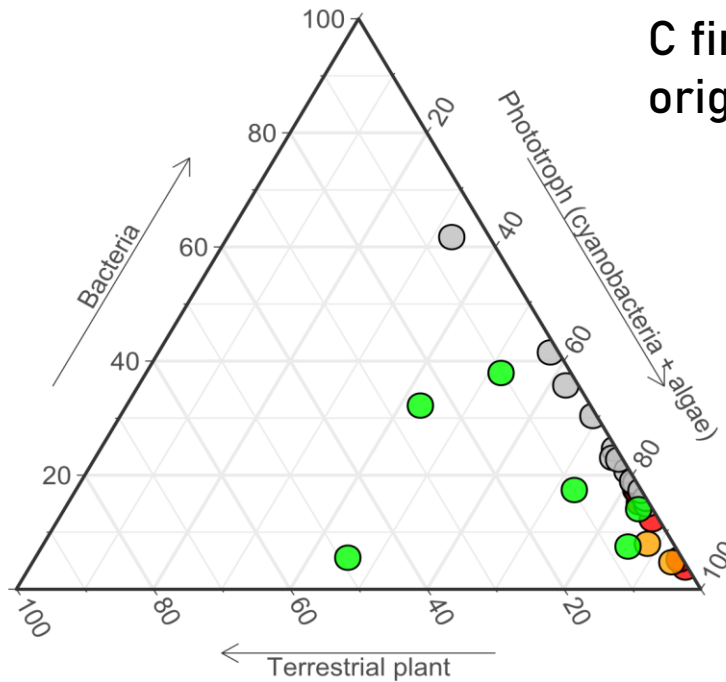


AA N15 to reconstruct food webs





## Origin and fate of organic matter in inland water



C fingerprinting to track the origin of primary production

- Water sample
- Zooplankton
- Lake trout
- Sediment



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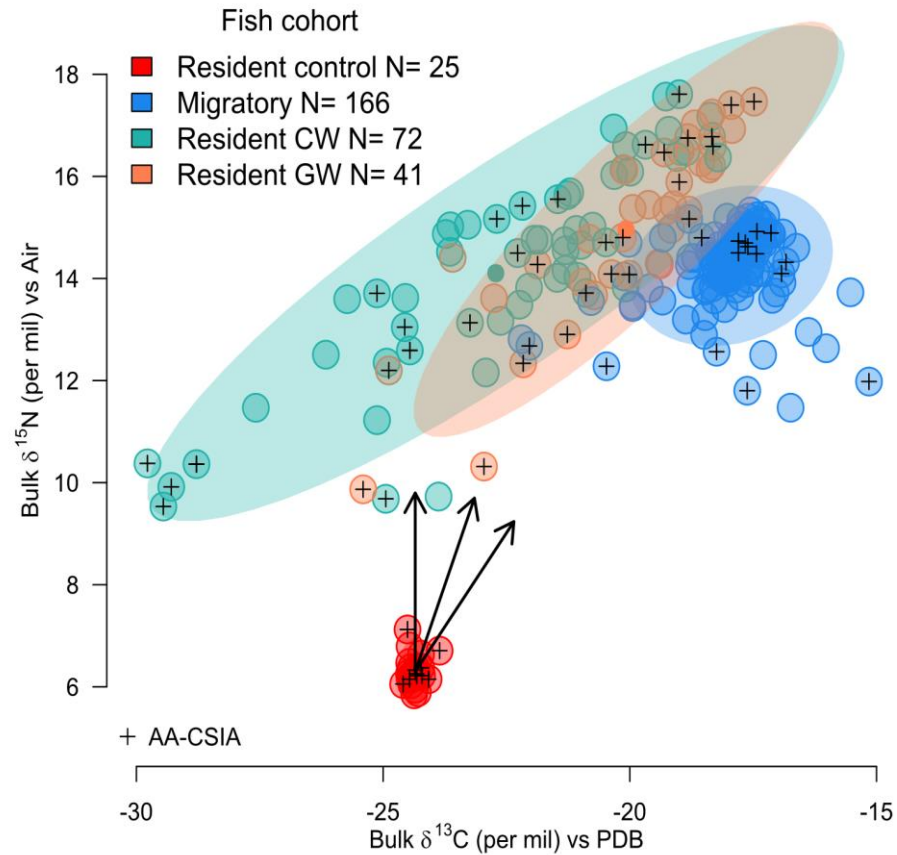


**Trophic dynamics induced by  
migratory fish**



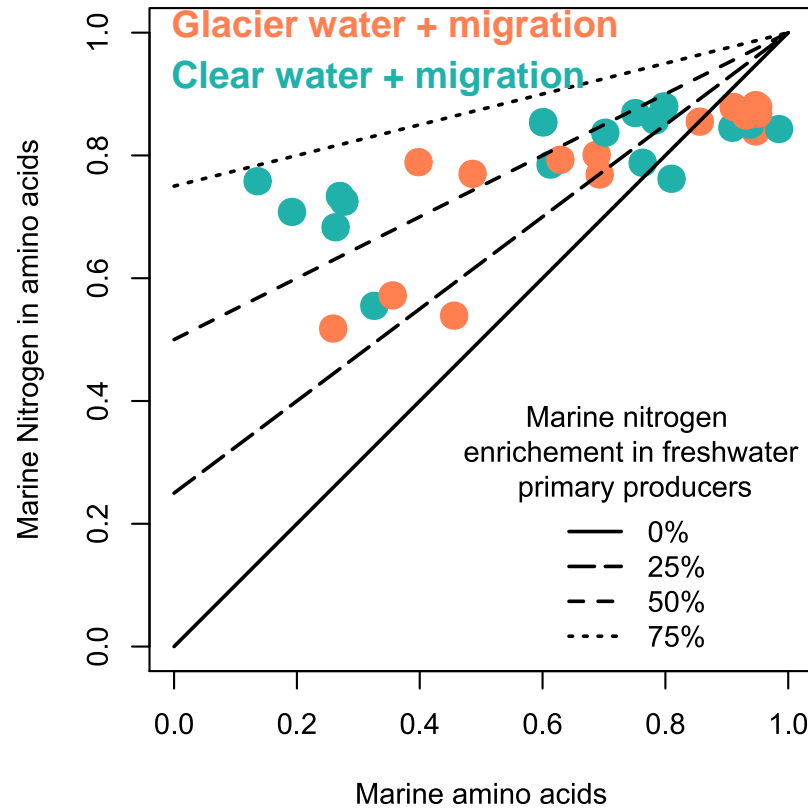


## Trophic dynamics induced by migratory fish





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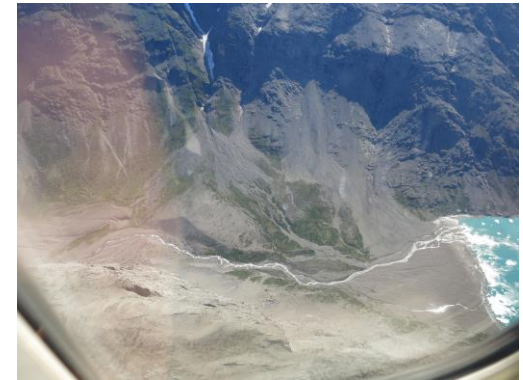


Combine C13 and N15  
AA to determine the  
source or organic  
and inorganic N





## Trophic dynamics induced by migratory fish



Understanding individual diversity in ecosystem processes

