UiT

THE ARCTIC UNIVERSITY OF NORWAY

The spatial distribution of meroplankton in an arctic fjord

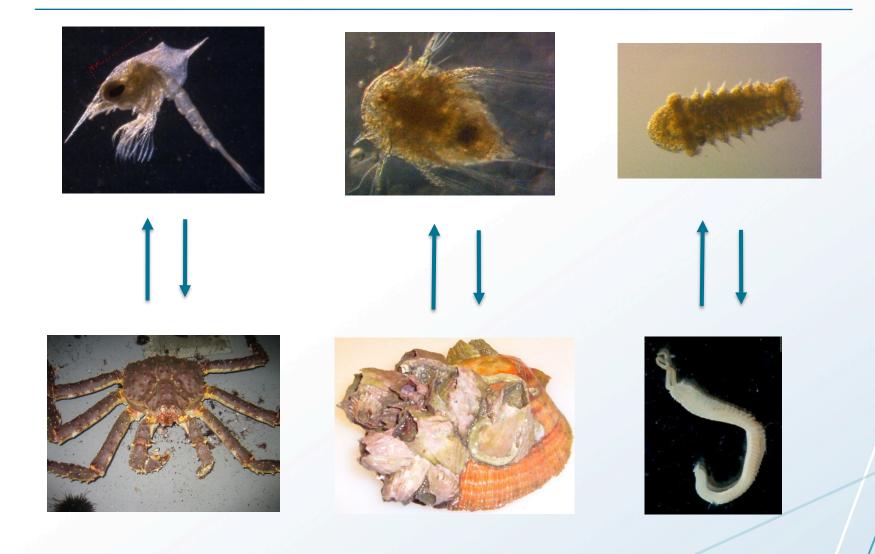
Helena Kling Michelsen and Camilla Svensen







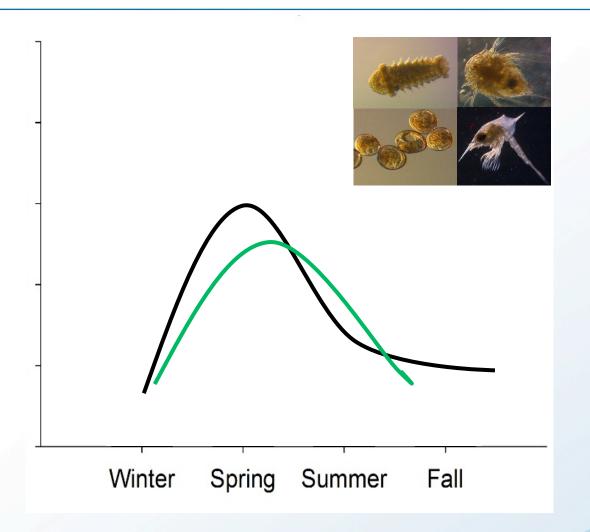
Meroplankton

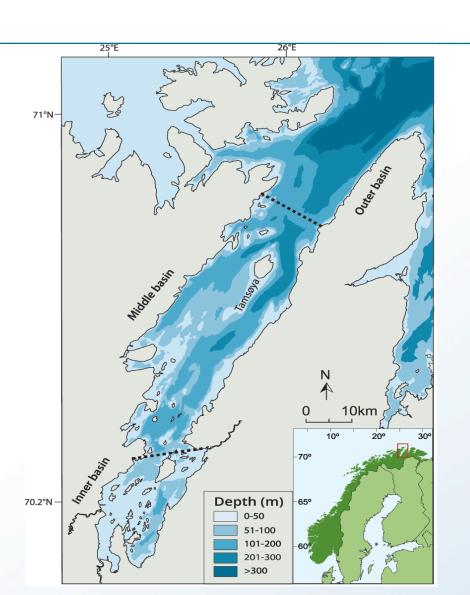


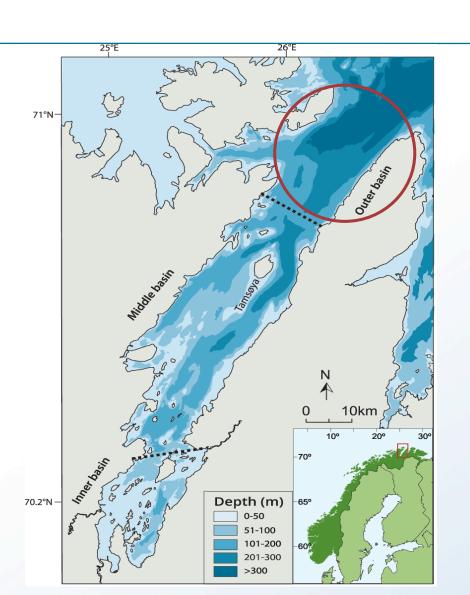
Strong seasonal spawning in high-latitudes

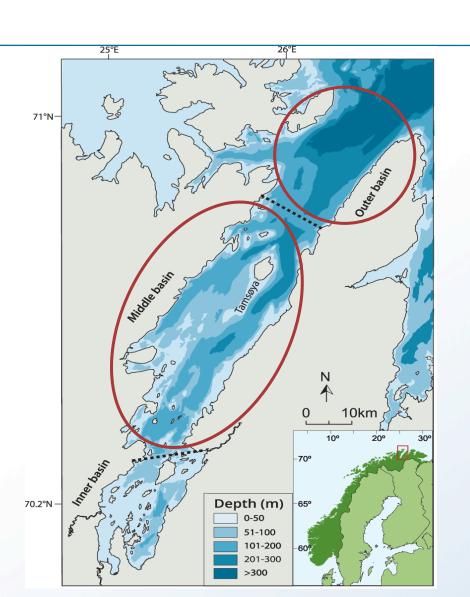
Abundance

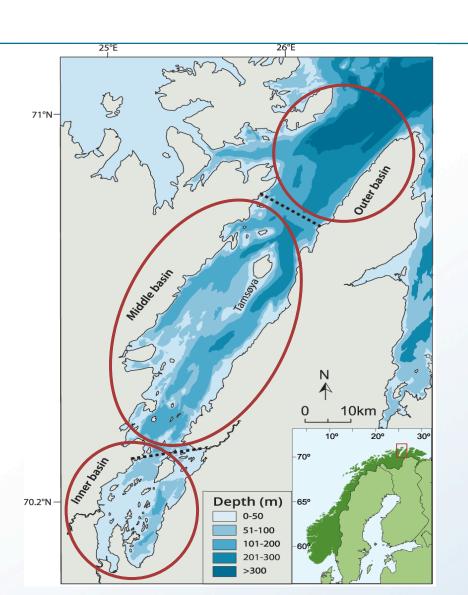
Diversity

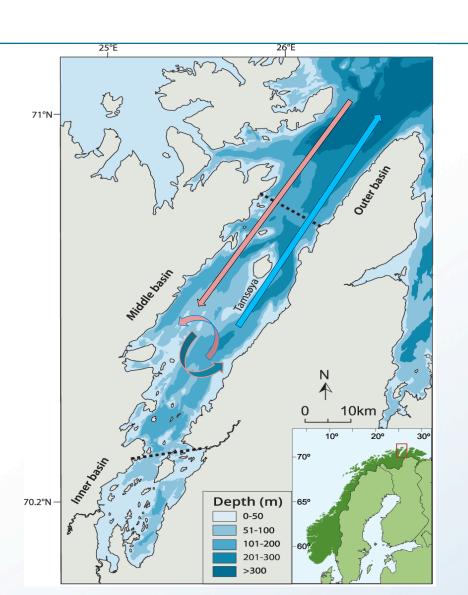












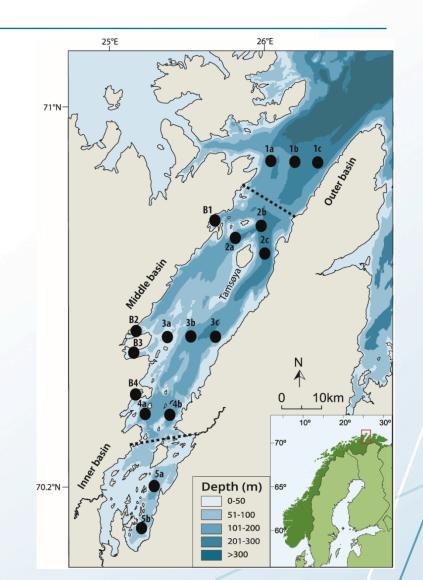
Research questions

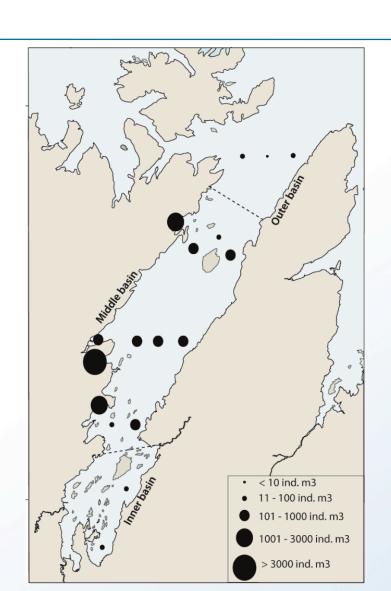
- Are there spatial differences in abundance and composition of meroplankton during spring?
- Is the spatial difference correlated with environmental variables?

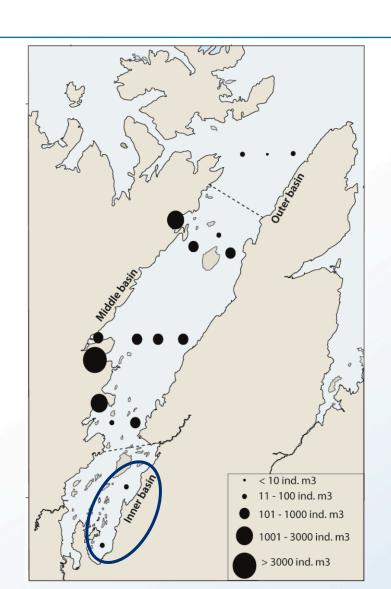
 What is the relative numerical role of meroplankton in the zooplankton community?

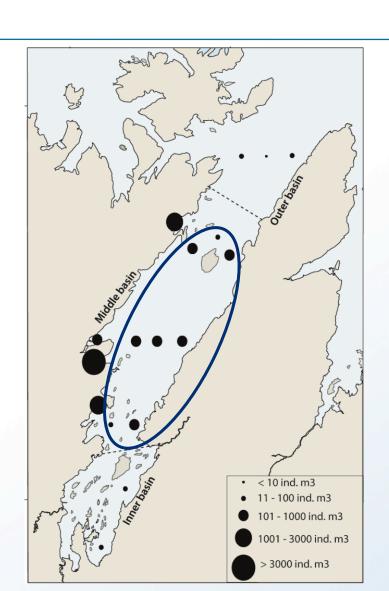
Sampling regime

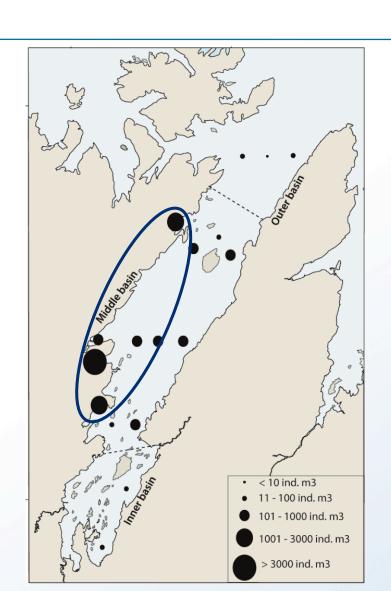
- WP2 samples and CTD-profiles collected 11-17 April, 2013
- Five transects
- Identification:
 - Meroplankton to the lowest taxonomic level
 - Holoplankton to phylum

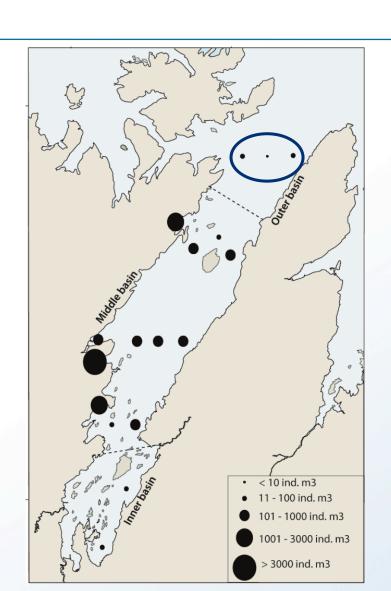


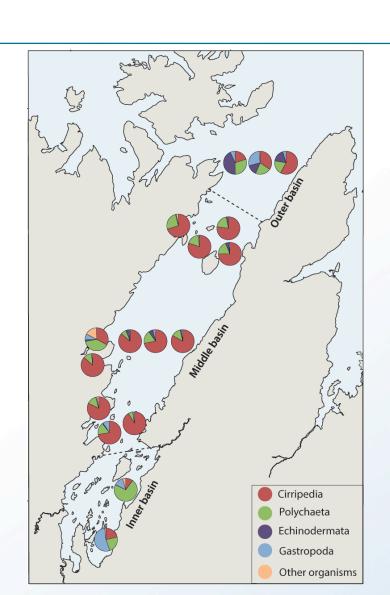






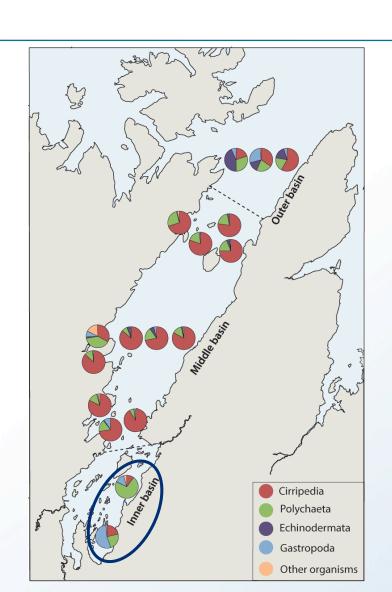




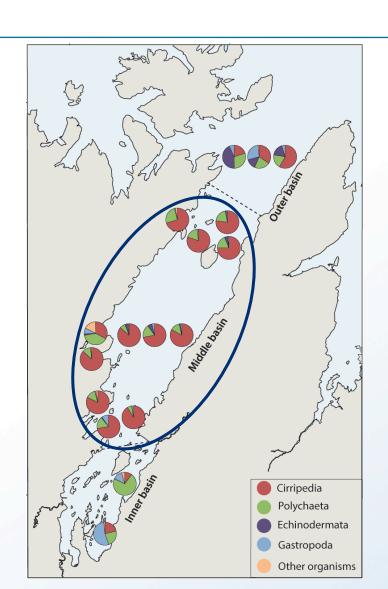


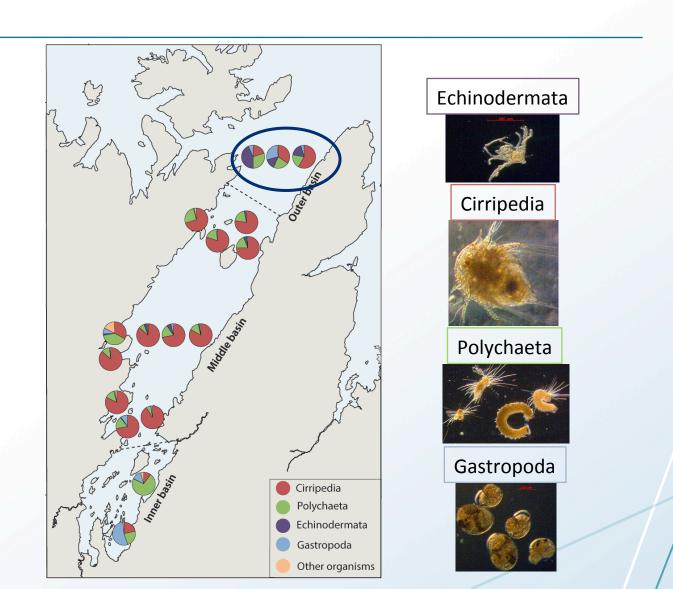
Gastropoda

Polychaeta

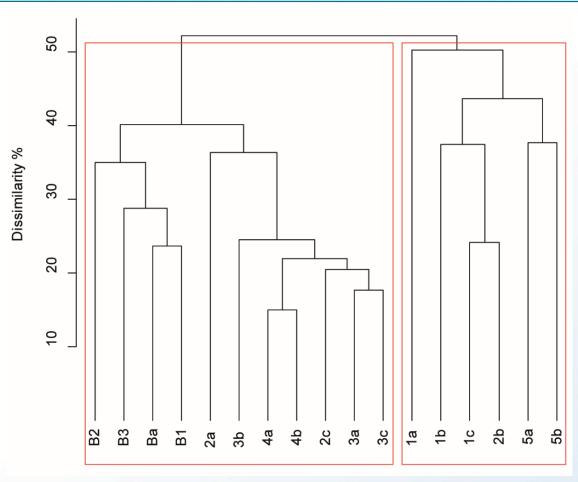








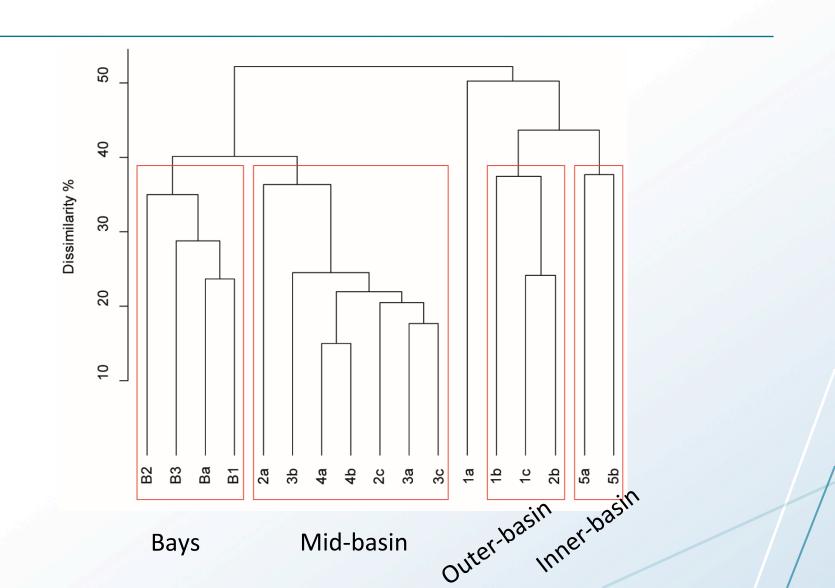
Station dissimilarity – Bray Curtis

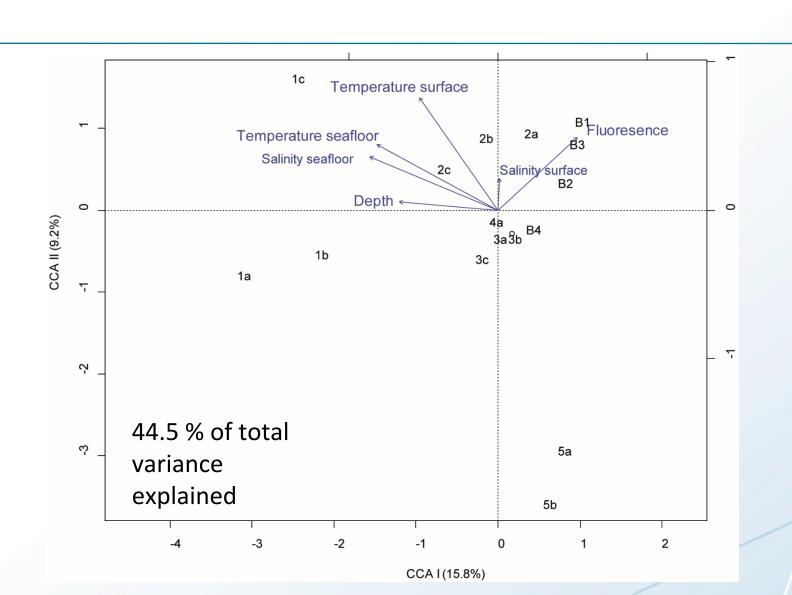


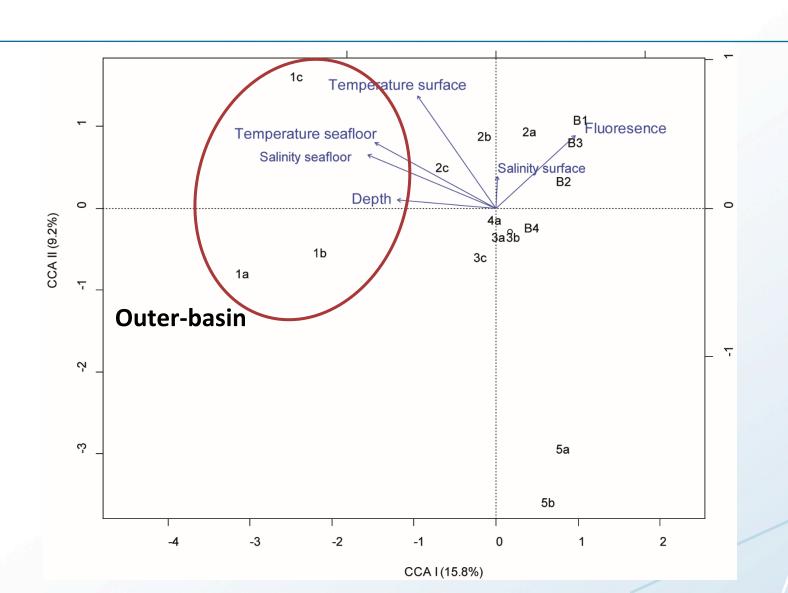
Bays and mid-basin

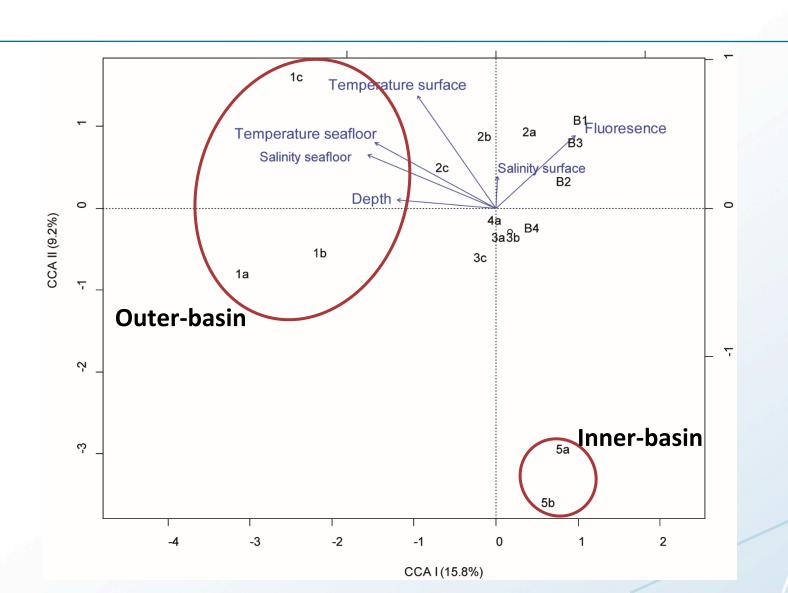
Inner- and outer-basins

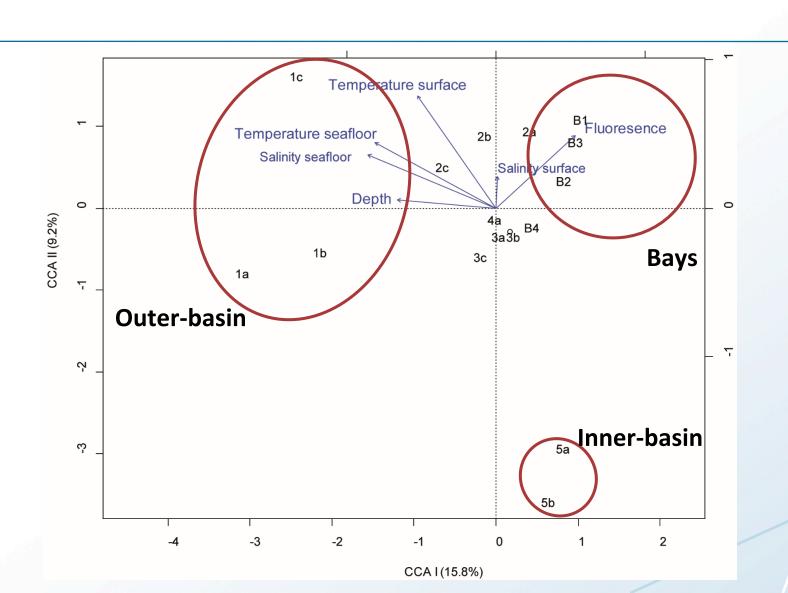
Station dissimilarity – Bray Curtis

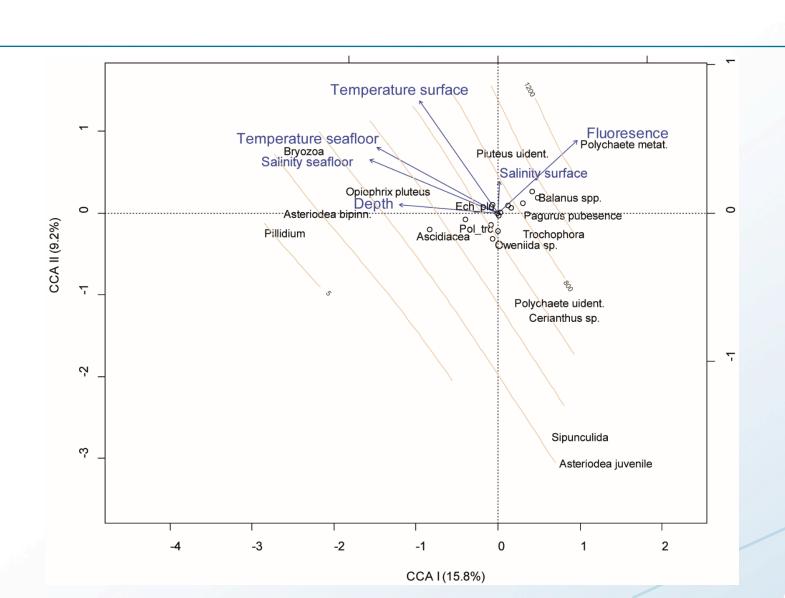


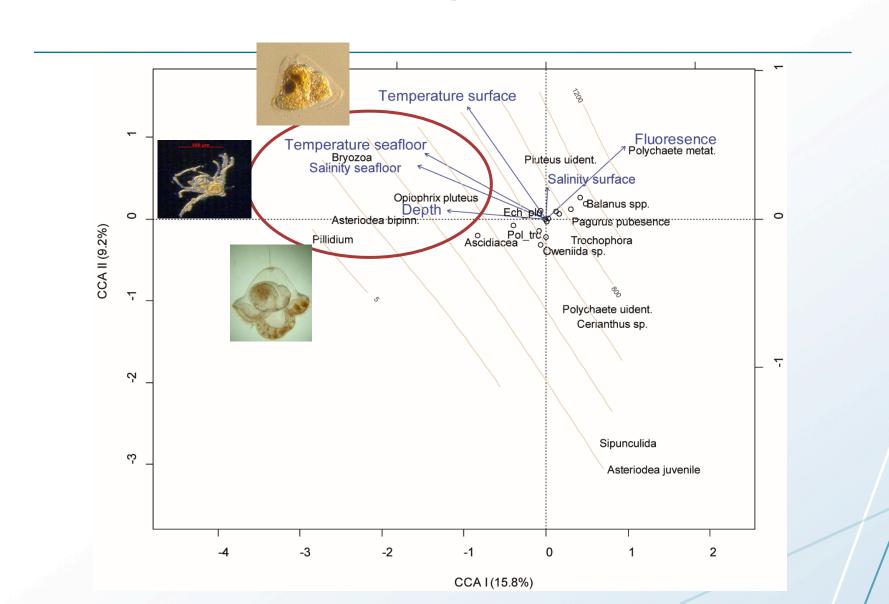


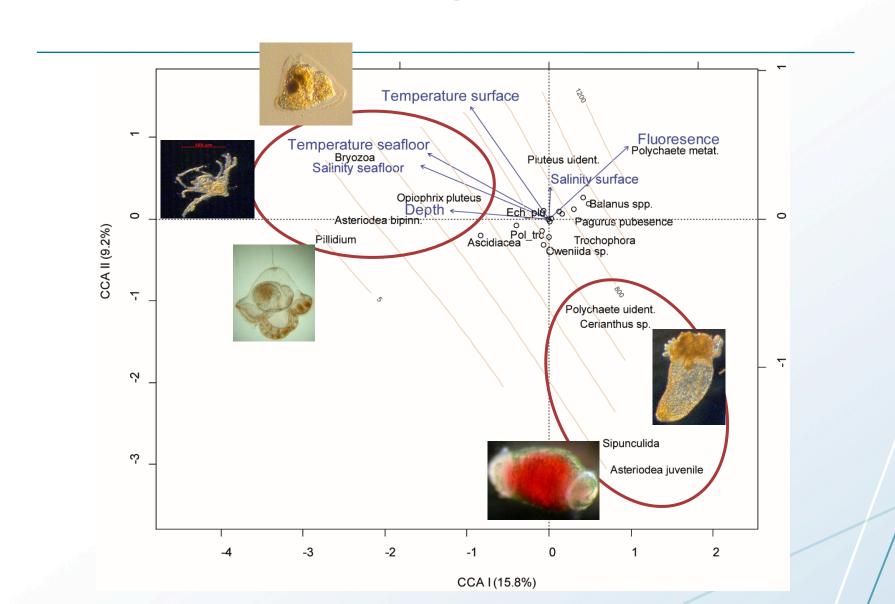


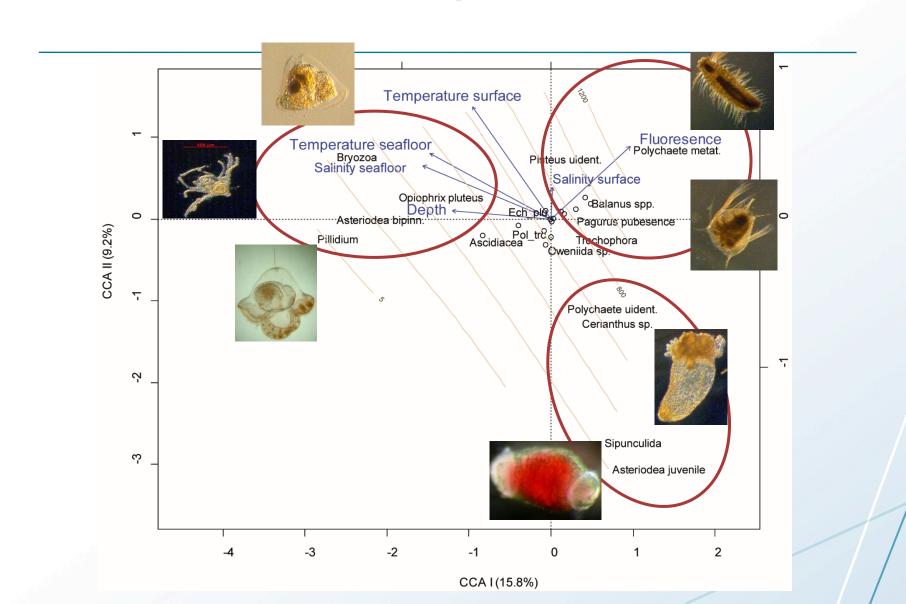




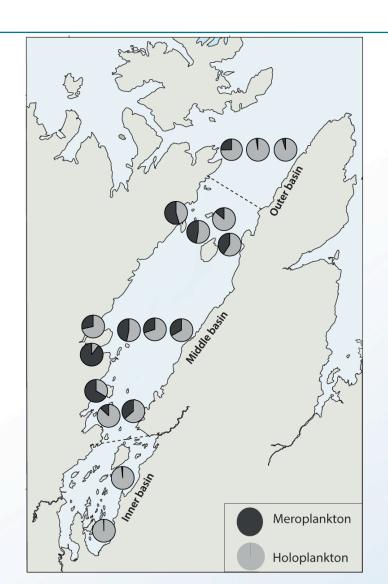




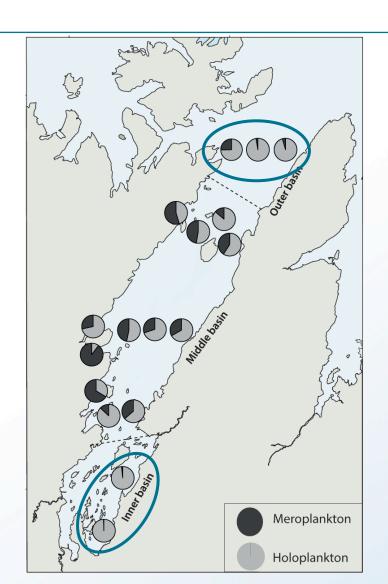




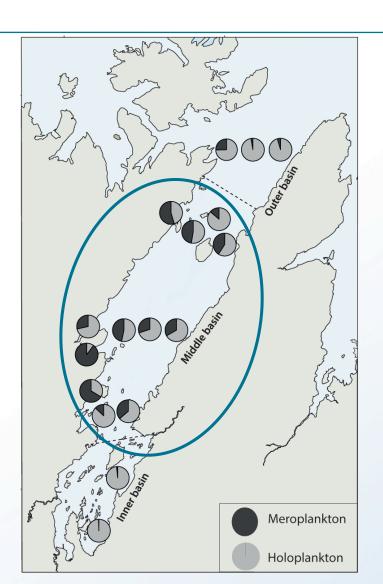
Relative abundance of holoplankton and meroplankton



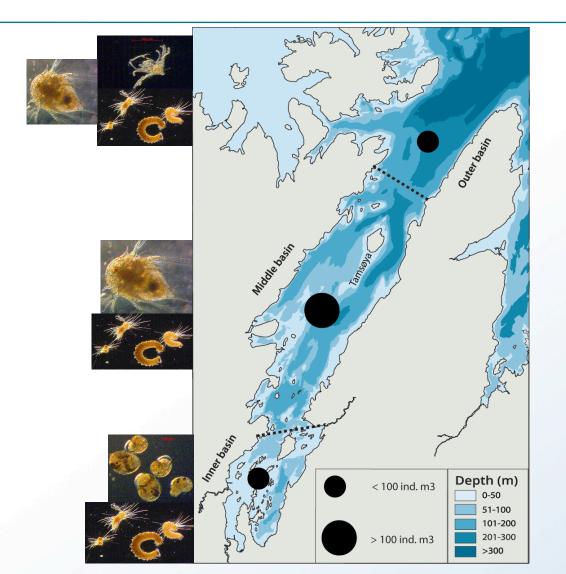
Relative abundance of holoplankton and meroplankton



Relative abundance of holoplankton and meroplankton



Summary and conclusions



Meroplankton play an important role in high-latitude fjord systems