

Metadata Details

Title

Long term monitoring on Vertical Migration of zooplankton and their role in the biochemistry of Kongsfjorden

Science Keywords

Category	Oceans
Topic	Marine Biology
Expedition Year	2018-2019
ISO Topic	Oceanography

Summary**Abstract**

The seasonal formation of fronts formed during the spring and advection of Atlantic water mass during summer, may influence the rate of migration in a reducing or increasing amplitude. This element will focus on the rate of vertical migration of zooplankton through time series studies (24 hrs) at selected locations of the fjord in various stations at various seasons and its contribution to the biogeochemical cycle of the ecosystem. Diel and ontogenic migration of zooplankton is proposed to be one of the important mechanisms in transporting carbon from the euphotic zone to the deep water and the amount of respiratory carbon transported from the euphotic zone by diel migrant mesozooplankton can be, at times, of the same order of magnitude as that of the gravitational particle sinking.

Purpose

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