



Cryosphere-regulated groundwater discharge in submarine environments

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and by Zoom <https://stockholmuniversitet.zoom.us/j/66253823825>

Submarine groundwater discharge transports nutrients and trace elements from land to ocean with consequences of ocean productivity and carbon cycling. Ice-sheet dynamics and permafrost thawing have been proposed to regulate groundwater circulation on a large geographical scale in high latitude regions. I will present a case study from the Lofoten-Vesterålen margin (N. Norway), where former glaciers have driven submarine groundwater discharge since the last glacial period. The consequences of such a glacier-driven groundwater flow can still be detected both in the sediments and on the seafloor.

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