

**Subproject: Carbon cycling in fjords impacted by glaciers**

Actual field dates: February 1, 2015 - November 30, 2016

Field site: Nuuk

Number of man-days in the field: 250

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**Summary:**

During an annual survey, we investigated the carbon cycle in Godthåbsfjord, a sub-Arctic fjord system impacted by meltwater input of the Greenland Ice Sheet. Monthly surveys in the fjord were undertaken during 2016 along a transect from the open sea to the inner part of the fjord to assess the sources and sinks of carbon in Godthåbsfjord. The aim is to further investigate the efficient carbon sink in the fjord system due to high biological uptake and the role on carbon cycling of glacial meltwater.

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**Photos:**

Figure 1: Credit: Modis Nuuk

Caption: The Godthåbsfjord system

Photo 2: Credit: Lorenz Meire

Caption: Collecting water samples and performing  $p\text{CO}_2$  measurements in the fjord

Photo 3: Credit: Lorenz Meire

Caption: Operating the winch system during CTD transect

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**Participants:**

AU: Lorenz Meire, Søren Rysgaard, Mikael Sejr

UoM: Wieter Boone

GINR: John Mortensen

Other : Filip Meysman, Patrick Meire

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Figure 1



Photo 2



Photo 3