

Subproject: Light dynamics in high latitude fjord impacted by glaciers

Actual field dates: February 1, 2015 - December 31, 2016

Field site: Nuuk

Number of man-days in the field: 250

Summary:

Light dynamics plays an essential role in primary production. Due to the high input of silty meltwater during the summer months, the light regime is highly dynamics in Greenland coast ecosystems with large daily, tidal and seasonal variation in light dynamics. Using transects studies in the fjord in combination with various moorings equipped with PAR sensors, the variability in light quantity and quality was assessed in a fjord system in south-west Greenland (Godthåbsfjord) impacted by the melting of the Greenland Ice Sheet.

Photos:

Figure 1: Credit: Modis

Caption: The Godthåbsfjord system

Photo 2: Credit: Lorenz Meire

Caption: Operating the winch system during CTD transect

Photo 3: Credit: Lorenz Meire

Caption: View of the Ameralik fjord system

Participants:

AU: Lorenz Meire, Søren Rysgaard

UoM: Wieter Boone, Jens Ehn

GINR: John Mortensen

Acknowledgements: Arctic science partnership for financial support



Figure 1



Photo 2

