



Sediment plume



Clearing of snow on the ice

We have worked in Kangerlussuaq on the west coast of Greenland both summer in the water column and winter on the sea ice.

The fjord is governed by a land-terminating glacier discharging melt water from the Greenland Inland Ice. Sea ice covers the fjord from mid December until April-May.

We have a strong focus on 1) optical properties in water and below ice, 2) nutrient dynamics, 3) primary production, and 4) photobiology of phytoplankton and sea ice algae in each of the

seasons. <https://doi.org/10.1007/s12237-010-9300-7>

<https://doi.org/10.3390/jmse9080830>

<https://doi.org/10.1016/j.coldregions.2018.03.017>

Comparison of parameters between the two seasons have been carried out, which showed that primary production below ice in winter was comparable to the production in the column in summer. <https://doi.org/10.1080/15230430.2017.1414468>

Snow clearing experiment strongly inhibited primary production of the ice algae – too much light. <https://doi.org/10.3390/jmse9080814> & <https://doi.org/10.1007/s00300-013-1444-z>

A video showing some of our sea ice research with an ROV in Kangerlussuaq

<https://www.youtube.com/watch?v=OU4C0eXul3U>