

### Subproject: Effect of freshwater and terrestrial organic carbon loading on the carbon turnover in Young Sound

Actual field dates: July 27 to August 19, 2015

Field site: Daneborg

Number of man-days in the field: Three weeks for all (8) participants

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#### Summary:

The team was able to collect several related data sets all contributing to understanding how glacial melt water and surface run-off from land may influence the physical and biological properties related to marine carbon cycling in the fjord. Parameters included the vertical distribution of microscale turbulence, bacterial degradation potential, carbon and nitrogen dynamics in the water column, distribution and sinking velocity of particles, benthic oxygen dynamics under freshwater plumes, bacterial and viral activity as well as the standard parameters measured as part of the annual monitoring program.

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#### Photos:

Fig.1: Team en route to Daneborg. Credit: Mikael Sejr

Fig. 2: Young Sound at midnight. Credit: Mikael Sejr

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#### Participants:

AU: Egon Frandsen, Johnna Holding, Mikael Sejr.

Other : Ronnie Glud, Karl Attard, Achim Randelhoff, Thorbjørn Andersen and John Paul Balmonte.

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Fig. 1

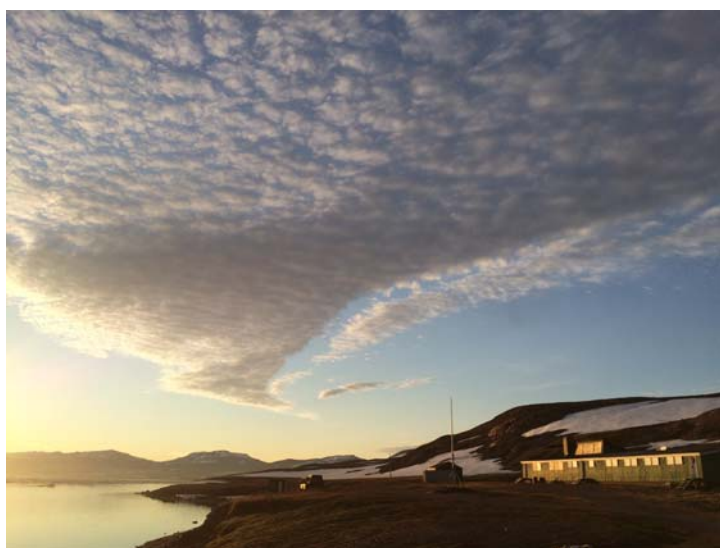


Fig. 2