

Subproject: Diversity and distributions of terrestrial arthropods along climatic gradients in a warming Greenland

Actual field dates:

14. June – 8. September 2016

Field site: Blæsedalen, Disko Island and Narsarsuaq

Number of man-days in the field: 241

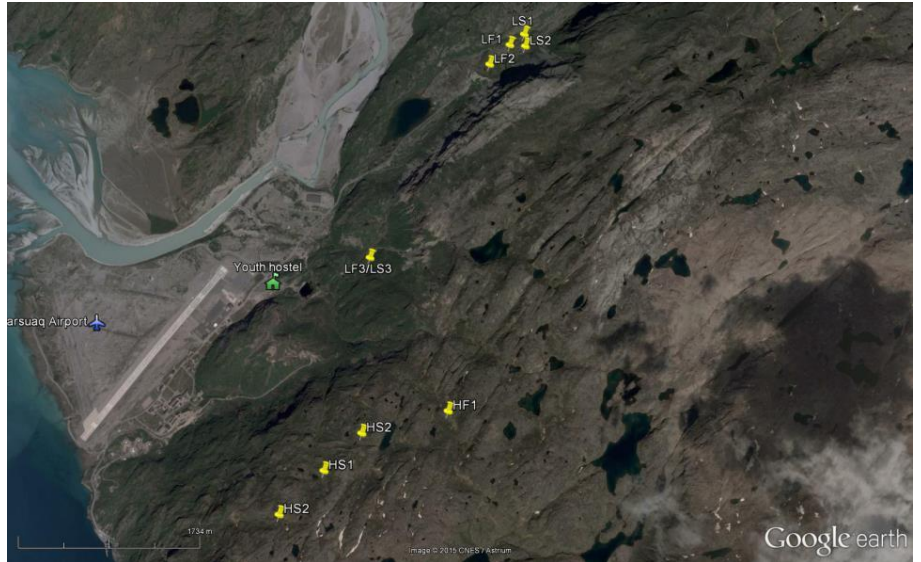


Photo 1

Summary:

The field work took place at two sites. At the Narsarsuaq site, the main achievement was the collection of arthropods from 140 pitfall traps in permanent plots established in 2014. Samples were collected weekly during the growing season from each plot and a total of 1540 samples were collected. In addition a range of additional data on vegetation, soil moisture and temperature was collected. The samples form part of one ongoing MSc on beetle diversity and one ongoing BSc project on fly diversity. During fieldwork, Mathias Skytte discovered a globally extremely rare wasp species (*Gonatopus brooksi*):

<https://tundraarthropods.wordpress.com/2016/11/11/featured-arthropod-gonatopus-brooksi-olmi-1984-hymenoptera-dryinidae/>. At the Disko site in Blæsedalen, the main achievements were the setup of plots for the planned start of the Biobasis Disko addition to the Greenland Ecosystem Monitoring program. 128 pitfall trap plots were established and arthropods samples were collected from these plots as well as from 96 plots in connection with the snowfence-warming experiment established by Center for Permafrost, University Copenhagen at Blæsedalen. The collected samples form part of one ongoing MSc on soil microarthropod diversity and one ongoing BSc project on spider diversity at the site.

Photos:

Photo 1: Credit: Google Earth composite
Caption: Location of arthropod plots at the Narsarsuaq site

Photo 2: Credit: Toke Thomas Høye
Caption: Operophtera bruceata larvae defoliating birch at the Narsarsuaq site
Photo 3: Credit: Toke Thomas Høye
Caption: Establishment of pitfall traps at Blæsedalen, Disko Island



Photo 2

Participants:

AU: Mathias Groth Skytte, Kristian Moltzen Jakobsen, Jean-Claude Kresse, Thøger Henriksen, Toke Thomas Høye
Other : Ashley Asmus (University of Texas, Arlington)

Acknowledgements:

Carlsberg Foundation co-funded the field campaign at Narsarsuaq.



Photo 3