

Session organized by:

Polish Polar Consortium, Sosnowiec, Poland Polar Research Center, Nicolaus Copernicus University in Toruń, Faculty of Earth Sciences, Toruń, Poland





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and their forefields on Svalbard and their environmental consequences in the High Arctic



BREAKOUT SESSION
Expo Pavilion
18.30-19.30, Thursday, October 10.



Chair

Ireneusz Sobota, Vice-President of Polish Polar Consortium, Professor, Nicolaus Copernicus University in Toruń, Faculty of Earth Sciences, Polar Research Center, Toruń, Poland

A draft program:

18:30 Introduction

18:31

Ireneusz Sobota, Piotr Weckwerth, Tomasz Grajewski

Changes of Kaffiøyra region glaciers and their forefields, Svalbard - 20 years of research.

18:40

Wieslaw Ziaia

New landscape of areas abandoned by glaciers in the SE Spitsbergen after 1900.

18:50

Joe Gendall, Piotr Weckwerth, Ireneusz Sobota

Detecting geomorphological change in high resolution: applying UAV and Structure-from-Motion technology to the Aavatsmarkbreen forefield, Spitsbergen.

19:00

Paulina Wietrzyk-Pełka, Michał Węgrzyn

Vegetation succession and soil development in forelands of Svalbard glaciers.

19:10

Marek Kasprzak

Impact of liquid water on permafrost in coastal, paraglacial environment: geophysical and geomorphological approach.

19:20 Q&A

In the end: Final of the award lottery with polar gifts







Description of the session

A significant increase in the retreat of glaciers and changes in their area have been observed in the Arctic and Svalbard in recent decades. Due to its specific character and climate conditions, Svalbard is a remarkable laboratory for research on contemporary climate changes and their environmental consequences. The main objective of session will be to present characteristics of changes in the dynamics and spatial extent of the Svalbard glaciers and their forefields. An important goal of the session is to present multidisciplinary approach to the Svalbard glaciers, and therefore presentations will be related to different fields of science and various research methods. Hence, we hope the session will result in an interesting international discussion and increased knowledge on glaciers changes and their environmental consequences in Svalbard and the Arctic.

