

Metadata Details

Title

Ice dynamics of the glaciers from Broggerbreen Peninsula based on the glaciological studies on VestreBroggerbreen Glaciers, Svalbard, Arctic.

Science Keywords

Category	Cryosphere
Topic	Glaciers/Ice Sheets
Expedition Year	2018-2019
ISO Topic	Meteorology

Summary

Abstract

Snow and ice are pervasive elements of high-latitude environmental systems and have an active role in the global and regional climate systems. Considering the importance of undertaking an integrated study of Arctic glaciers, the main purpose of this project is to study the rapid changes in Spitsbergen, Svalbard glaciers by initiating observational network at few key glaciers to collect, interpret and model data on various scientific parameters and conduct a long-term monitoring mass balance, glacier dynamics, ice flux, hydrology and sub-glacial hydrology. Since, glacier network provides a highly useful tool for monitoring spatial and temporal changes in climate so that it is extensively used for reconstructing and modelling past and future climatic scenarios. Objectives: To study the dynamics and the rate of change of selected glaciers(Vestre Broggerbreen and Feiringbreen) in Spitsbergen, Svalbard Arctic (mass balance, ice flux, surface ice velocity, strain rate, and terminal fluctua.

Purpose

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