

# Metadata Details

**Title**

Late quaternary palaeoclimatic interpretation of clay minerals in sediments of Ny-lesund area, Svalbard, Arctic.

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**Science Keywords**

Category	Paleoclimate
Topic	Geodetics/Gravity
Expedition Year	2017-2018
<b>ISO Topic</b>	Geodesy

**Summary**

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**Abstract**

Granulometric analysis (weight percentage of sand, silt, clay and pebbles specially dropstones) and statistical parameters (mean grain size, sorting, skewness etc) helps in providing environment of sediment transportation and deposition) The surface morphology under scanning electron microscopy provides information on sediment dynamics and depositional environment. Foraminifera indicate very precisely about any fluctuation in the marine climatic conditions. Foraminifera can be used to infer about the ancient shorelines and track global ocean temperature changes during the ice ages. OSL dating of sediments will help in establishing the chronology in different events. Search for terrace deposits will be undertaken and core samples using Auger drill will be collected for comprehensive dating by OSL and C14 for determining paleo strand line and its antiquity.

**Purpose**

Granulometric analysis (weight percentage of sand, silt, clay and pebbles specially dropstones) and statistical parameters (mean grain size, sorting, skewness etc) helps in providing environment of sediment transportation and deposition) The surface morphology under scanning electron microscopy provides information on sediment dynamics and depositional environment. Foraminifera indicate very precisely about any fluctuation in the marine climatic conditions. Foraminifera can be used to infer about the ancient shorelines and track global ocean temperature changes during the ice ages. OSL dating of sediments will help in establishing the chronology in different events. Search for terrace deposits will be undertaken and core samples using Auger drill will be collected for comprehensive dating by OSL and C14 for determining paleo strand line and its antiquity.

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**Data Center**