

Metadata Details

Title

Sedimentological and Geochemical Investigations of surface and subsurface sediments from lakes, Krossfjorden and Kongsfjorden system Svallbard-paleoclimatic implications.

Science Keywords

Category	Land Surface
Topic	Erosion/Sedimentation
Expedition Year	2016-2017
ISO Topic	Meteorology

Summary

Abstract

To study spatial and temporal variations in ^{10}Be concentration in marine sediments of higher latitudes (Northern & Southern Hemisphere). To study temporal variation in ^{10}Be concentration in sediment core and comparison of temperature changes occurred during corresponding period as inferred from ice cores. To study Paleoclimatic condition (Paleotemperature, Paleosalinity & Paleoproductivity) using Stable Isotopic Analysis of different Foraminiferal species (Sacculifer, Bulloides etc.) Benthic foraminiferal Mg/Ca ratio to reconstruct Paleotemperature and to constrain the temperature effect contained in foraminiferal values. Sediment texture and Grain size analysis to study sea level fluctuations (Glacial and interglacial conditions). To study past oceanographic & climatic changes with the help of Trace elements of marine sediments.

Purpose

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Data Center