

Metadata Details

Title

In-situ and satellite based primary productivity and bio-optical studies for understanding dynamics of Kongsfjorden and Krossfjorden twin ecosystem

Science Keywords

Category	Oceans
Topic	Marine Biology
Expedition Year	2019-2020
ISO Topic	Oceanography

Summary

Abstract

The objectives of the proposed research plan are to: Study the effect of prevailing environmental conditions on phytoplankton physiological parameters such as Fv/Fm and PSII and establish a link (if any) between their variations to PP variability using FRRF technique To establish, the hypothesis, that environmental variability and thus phytoplankton productivity in the surface ocean is better expressed by the absorption properties of the phytoplankton rather than their quantity. Further, verify the role of phytoplankton pigment package effect in the study area.

Purpose

The objectives of the proposed research plan are to: Study the effect of prevailing environmental conditions on phytoplankton physiological parameters such as Fv/Fm and PSII and establish a link (if any) between their variations to PP variability using FRRF technique To establish, the hypothesis, that environmental variability and thus phytoplankton productivity in the surface ocean is better expressed by the absorption properties of the phytoplankton rather than their quantity. Further, verify the role of phytoplankton pigment package effect in the study area.

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