

Metadata Details

Title

Heterotrophic Activity, Bacterial Types and Abundance in Different Ecosystems of the Queen Maud Land.

Science Keywords

Category	Oceans
Topic	Marine Biology
Expedition Year	1989-1990
ISO Topic	Oceanography

Summary

Abstract

Microbiological studies from the marine, limnetic, terrestrial and glacial ecosystems were carried out during the Ninth Indian Expedition (1989-90) to estimate the bacteria! numbers, to characterise the generic types and also to estimate the uptake of ^{14}C glucose and glutamic acid by these heterotrophs. Bacterial communities in different habitats appeared to be having distinct ecosystem specialisation both in terms of number and activity. In the maritime Antarctic, their biomass was found to be substantially high. Vertical profiles of bacterial counts biomass decreased gradually and uniformly with increasing depth in the polynyas.

Purpose

This work deals with the bacteriological studies carried out on their types, abundance and activity, during the Ninth Indian Expedition to Antarctica.

Data Center