

Metadata Details

Title

Study of Algal Diversity of Larsemann Hills, Antarctica.

Science Keywords

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| Category | Biosphere |
| Topic | Ecological Dynamics |
| Expedition Year | 2013-2014 2013-2014 |
| ISO Topic | Biodiversity and Biotechnological Potential |

Summary

Abstract

Algae are ubiquitous, a multitude of species ranging from microscopic to gigantic kelp inhabit the world's oceans, freshwater bodies, soils, rocks, trees, etc. and are responsible for most of the global production of organic matter by photosynthesis. Thus, they play a fundamental role in the world's ecosystem and their kaleidoscopic diversity, systematic and phylogeny is indispensable. The Larsemann Hills is an ice-free area of about 50 Km² located approximately halfway between Vest fold Hills and Amery Ice shelf on South-eastern coast of Prydz Bay. Continuous human activity in Larsemann Hills is promoted by the coastal location, ice free landscape, the further scientific research, and the potential for tourist visits may affect the algal diversity. The Antarctic climate/environment is highly susceptible to the impact of human activities and has much less natural ability to recover from disturbance than the environment of other continent.

Purpose

Survey and collection of the algal samples. Taxonomic enumeration and diversity of algae. Gross monitoring of physico chemical parameter of water bodies/different habitats Culture of algal from various habitats to predict the futuristic growth of algal if required.

Data Center