

Metadata Details

Title
Distribution of a Few Trace Metals in a Section in the South-Western Indian Ocean.

Science Keywords

Category : Marine Science
Topic : Ocean Chemistry
Expedition Year : 1981-1982
ISO Topic : Atmosphere

Summary

Abstract
Determination of Cu, Cd, Fe, Mn, Zn, Pb, Co and Ni has been carried out at different depths at 8 stations- one station being in an Antarctic polynya and 7 in the Southern Ocean. The depth wise and surface-wise variations have been discussed in different parts of the sampling region - Antarctic polynya, Antarctic divergence, Antarctic convergence and subtropical convergence regions. Average dissolved Cu and Cd in the 100-500 m depth layer in the Antarctic region is nearly the same as the average concentrations of the two metals in the sub-tropical surface water. In general, dissolved Fe shows enrichment towards the bottom except in the Antarctic divergence region. Particulate Fe is high in the Antarctic region. Mn concentration is almost similar in the 100-500 m layer throughout the sampling region. Dissolved as well as particulate Zn is higher at surface and lower in the bottom layer. Pb, Co and Ni have no definite trend of variation in both dissolved as well as particulate forms.

Purpose
Utilizing the opportunity to collect data from the unpolluted Southern Ocean, water samples were collected for trace metal analysis during the First Indian Expedition to Antarctica on board M. V. Polar Circle from December 1981 to February 1982. This study deals with the distribution of dissolved and particulate forms of a few trace metals in the Southern Ocean and their comparison with earlier data

Data Center

Dataset Citation

Creator : Mrs Mesquita Analia MB
Editor : Mrs Mesquita Analia MB
Title : Trace Metals
Series Name : 1
Release Date : 18/08/2020
Release Place : Goa
Version : 1
Data Presentation Form : null
Online Resource : <http://14.139.119.23:8080/dspace/bitstream/123456789/139/3/ARTICLE+9.pdf>

Scientist Details

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Address1 : null
City : Panjim
State : Goa
Postal Code : 403004
Country : India

Instrument Details

Short Name : Niskin GOFLO sampler
Long Name : Niskin GOFLO sampler

Platform

Short Name : M. V. Polar Circle
Long Name : M. V. Polar Circle

Location

Category : REGION
Type : Antarctic
Subregion : Dakshin Gangotri

Data Resolution

Latitude Resolution : 69 5808"
Longitude Resolution : 11 5439"
Horizontal Resolution Range :
Vertical Resolution :
Vertical Resolution Range :

Temporal Resolution :
Temporal Resolution Range :

Project Details

Short Name : 8
Long Name : Distribution of a Few Trace Metals in a Section in the South-Western Indian Ocean.

Quality

Access Constraints : Registration is required to access data
Use Constraints : Data may not be used for commercial application

Distribution Media

Media : Internet (https/ftp) & CD/DVD

Size : null
Format : null

Dataset Language : English
Dataset Progress : Complete

Related URL

URL Content Type : VIEW PROJECT HOME PAGE
URL : <https://www.npdc.ncpor.res.in>
Description : Homepage of the NPDC Website

DIF Revision History : 30-05-2012
Originating Data Center : NPDC, INDIA