

Metadata Details

Title

Seismic Investigations on the Ice-shelf Near Dakshin Gangotri, Antarctica.

Science Keywords

Category	Paleoclimate
Topic	Seismology
Expedition Year	1984-1985 1984-1985
ISO Topic	Seismology

Summary

Abstract

The results of the seismic investigations around the Indian base station in Antarctica have established the efficacy of the seismic reflection methods in delineating sub-shelf structures. The results of the seismic interpretation, in conjunction with those obtained from magnetic studies, have led to the proposition of a structural model describing the thicknesses of ice-shelf and underlying water and glacial sediment layers above the basement. This model explains a number of geomorphological features in the region.

Purpose

The seismic records were interpreted in conjunction with the results obtained from the magnetic survey and based on this interpretation a structural model of the ice-shelf around the Indian Permanent Station has been proposed.

Data Center