

Metadata Details

Title

Magnetic and Seismic Investigations on the Ice-Shelf around the Indian Permanent Station in Antarctica.

Science Keywords

Category	Solid Earth
Topic	Seismology
Expedition Year	1985-1986
ISO Topic	Seismology

Summary

Abstract

Results of magnetic and seismic investigations around the Indian Base Station in Antarctica have established the usefulness of geophysical tools in delineating sub-shelfstructures. Of the explosives tried so far for selecting a suitable energy source for seismic studies, Low Temperature Plastic Explosives (LTPE) developed by ERDL, Pashan, has been found to be the best under sub-zero climatic conditions of Antarctica.

Purpose

Magnetic investigations initiated during Second Indian Antarctic Expedition were continued thereafter, including during Fifth Indian Antarctic Expedition. During this Expedition, another 26 km long magnetic traverse, 5 km east of Indian Permanent Station was completed.

Data Center