

Metadata Details

Title

Some Geological and Glaciological Observations during Reconnaissance of the Terrain South of Dakshin Gangotri Station, Antarctica.

Science Keywords

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|-----------------|---------------|
| Category | Land Surface |
| Topic | Geomorphology |
| Expedition Year | 1984-1985 |
| ISO Topic | Geodesy |

Summary

Abstract

During the course of reconnaissance of the terrain conditions south of Dakshin Gangotri, and possible vehicular route across Wohl that mountains towards further south, some observations of geological and glaciological interest were made enroute, in addition to the performance appraisal of the snowmobiles. The efficiency of the vehicles under various terrain and ice conditions was studied and also exercises in establishing communication links between different locations during reconnaissance were carried out. The surface features and secular changes in different types of the Antarctic ice were recorded and glacio-geomorphological studies were carried out in Schirmacher Oasis. Geological studies were also carried out which revealed the existence of olivine basalt, hornfels, pyroxenite and skarn rocks in the Skaly IGA nunatak area.

Purpose

During the Fourth Indian Expedition to Antarctica, the author was a member of reconnaissance survey team whose objective was to explore a possible route for a vehicle based Expedition to the south pole.

Data Center