

Metadata Details

Title
Meteorological Studies at Dakshin Gangotri (Antarctica) March 1984 to February 1985.

Science Keywords

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| Category | Atmosphere |
| Topic | Atmospheric Temperature |
| Expedition Year | 1983-1984 |
| ISO Topic | Meteorology |

Summary

Abstract
The Third Indian Scientific Expedition to Antarctica established a permanent meteorological station at Dakshin Gangotri to monitor both surface and upper air parameters. This report contains results of these observations continuously taken at this station for one year. The variations in temperature wind velocity and atmospheric pressure and their influence on different weather systems are discussed. The low pressure systems moving over and around Antarctica carry warm and moist air whereas ridges draw in cold air. Significant fluctuations in temperature pressure and wind speed have been noticed in moving weather systems.

Purpose
The weather of Antarctica influences the global weather to a great extent. The study of meteorological parameters over Antarctica and their correlation with Indian weather will help in understanding important weather systems. The unique nature of the Antarctic atmosphere, the uniformity of physical structure of snow surface and frequent weather changes are important for the study of meteorological theories.

Data Center