

Metadata Details

Title

The Antarctic Winter as Recorded at Dakshin Gangotri

Science Keywords

Category	Atmosphere
Topic	Atmospheric Temperature
Expedition Year	1981-1982
ISO Topic	Atmosphere

Summary

Abstract

The data tape of the Automatic Weather Recording Station set up by the first expedition was recovered by the second expedition. The station performed well and the entire tape shows valuable and consistent recorded data. The temperature records show progressive cooling with the advance of the Antarctic winter with a minimum recorded temperature of -29° deg C. The wind data is consistent with published results of long term experiments showing winds generally from the South and South East sectors. The maximum wind speed recorded in the 6 months of recording was 85 mph from a southerly direction. Some qualitative explanations are put forward for the observations and the paper concludes with a set of recommendations for future experiments.

Purpose

On the 15th February 1983 a small team from the Second Indian Expedition Contingent landed at Dakshin Gangotri and surveyed the condition of the Automatic Weather Recording Station left behind by the first expedition. The team reported that one of the four guy wires holding the mast had worked loose, causing the mast to tilt considerably to one side. The bins containing the electronics, tape unit and the sealed batteries were undamaged, however, as also the underwater connectors, interconnecting cables and "O" ring seals. The mast was re installed vertically by the team

Data Center