

Metadata Details

Title

Radioactivity Measurements on Some Rock and Water Samples from Dakshin Gangotri, Antarctica.

Science Keywords

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|-----------------|------------------------------|
| Category | Land Surface |
| Topic | Surface Radiative Properties |
| Expedition Year | 1984-1985 |
| ISO Topic | Meteorology |

Summary

Abstract

The field measurements and laboratory analyses were carried out on some rock and water samples from the Dakshin Gangotri region. It was found that no significant deposits of radioactive minerals exist in the vicinity of the Priyadarshini lake. The water samples collected from the water channels in the ice-shelf and from the Priyadarshini lake were found to be free of any hazardous radioactive contaminations.

Purpose

The gamma ray spectrometric surveys are useful in locating gamma radiation fields caused by varying concentrations of radio isotopes at different localities. The spectrometric surveys thus provide an effective tool to locate important radioactive minerals like uranium, thorium etc. in a given region. So far very few radioactive surveys have been carried out in Antarctica (Dreschoff et al., 1983) and no significant deposits in radioactive minerals have been reported in the Dronning Maud Land.

Data Center