

# Metadata Details

## Title

Studies on Seismotectonics and Geodynamical Processes Between Antarctica and India.

---

## Science Keywords

Category	Paleoclimate
Topic	Seismology
Expedition Year	2000-2001
ISO Topic	Seismology

## Summary

---

### Abstract

The ongoing research activities at Antarctica were successfully carried out during XX IAE for the scientific objectives of studying the crustal deformation processes, the plate driving mechanisms and the response of the Indian Ocean Hthosphere, to monitor the space and time distribution of Earthquake occurrences and obtain hypocentral parameters, magnitudes of earthquakes, release of energy, strain accumulation and stress drop, velocity inversion for underground structure and physical properties, earthquake source mechanism, receiver function analysis, attenuation of seismic waves and anisotropy studies by operating the GPS station and the Seismological Observatory continuously.

### Purpose

These scientific objectives would provide the challenges and future opportunities to further the scientific investigations to unravel the unknown behavioural patterns of the earth systems, especially in the Indian Ocean. The paper discusses the importance of collocating GPS and Seismological Observatory at the same site.

---

## Data Center