

# Metadata Details

**Title**

Multi-proxy Studies on Late Quaternary Lake Sediments from Schirmacher Oasis, East Antarctica.

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**Science Keywords**

Category	Paleoclimate
Topic	Rocks/Minerals
Expedition Year	2006-2007
<b>ISO Topic</b>	Meteorology

**Summary**

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**Abstract**

The ~35 km<sup>2</sup> land area of Schirmacher Oasis (SO) in east Antarctica is occupied by over 100 and 150 lakes, respectively. Besides these lakes, there are many other dried up lakes which contain sediments making them promising archives for understanding surface geological processes, palaeoenvironment and palaeoclimatic conditions.

**Purpose**

High resolution sampling was carried out on several sites of SO during 26th ISEA, 2006-07. Sediment samples were collected by using manual sediment corer or by making pit/trench and also from exposed sections. In general, it was observed that at all subsurface sampling locations in SO region, the permafrost zone was encountered at a depth of ~80-85 cm during the summer period. The top most few centimeters of sediment profile is relatively coarse followed by finer sediments wherein the sand, silt and clay distribution varies at different intervals at different locations.

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**Data Center**