

Polar Geoscience

No. 11

Papers presented at the “Seventeenth Symposium on Antarctic Geosciences” held at the National Institute of Polar Research, October 15–16, 1997

CONTENTS

Analysis of GPS data at Syowa Station and IGS tracking stations <i>Akiko YAMADA, Kazushi MARUYAMA, Osamu OOTAKI,</i> <i>Akifusa ITABASHI, Yuki HATANAKA, Shin-ichi MIYAZAKI,</i> <i>Hiroaki NEGISHI, Toshihiro HIGASHI, Yoshifumi NOGI,</i> <i>Masaki KANA O and Koichiro DOI...</i>	1
Measurement of ice sheet movement at S16, East Antarctica using GPS <i>Osamu OOTAKI and Satoshi FUJIWARA...</i>	9
Preliminary study to generate a DEM of Amundsen Bay, Antarctica by interferometric SAR <i>Koichiro DOI, Taku OZAWA, Kazuo SHIBUYA,</i> <i>Hiroyuki NAKAGAWA, Makoto OMURA and Katsuaki KOIKE...</i>	14
Local earthquake activity around Syowa Station, Antarctica <i>Katsutada KAMINUMA, Masaki KANA O and Atsuki KUBO...</i>	23
An intraplate earthquake that occurred near Syowa Station, East Antarctica <i>Hiroaki NEGISHI, Yoshifumi NOGI and Katsutada KAMINUMA...</i>	32
Attempt to detect combination tones between the Earth’s free oscillation and the Earth tide, II— Bispectral analysis — <i>Toshiyuki TANAKA and Muneyoshi FURUMOTO...</i>	42
Preliminary report of electromagnetic soundings on East Ongul Island, Antarctica <i>Yuichi AOYAMA, Yoshifumi NOGI, Katsutada KAMINUMA</i> <i>and Toshiyasu NAGAO...</i>	49
Systematic deviations of earthquake slip vectors from NUVEL1 at the Australia–Antarctica and Pacific–Antarctica plate boundaries <i>Atsuki KUBO, Yoshifumi NOGI and Katsutada KAMINUMA...</i>	61
Local seismic activity monitored at King Sejong Station, Antarctica <i>Duk Kee LEE, Yea Dong KIM, Sang Heon NAM</i> <i>and Young Keun JIN...</i>	76

Preliminary report of the TH96 geological and geophysical survey results in Bransfield Strait and its vicinity <i>Manabu TANAHASHI, Takashi MATSUYAMA,</i> <i>Shuichi TOKUHASHI and Hirokuni ODA...</i>	90
Rock magnetic analysis for samples of the Napier Complex in the Mt. Riiser-Larsen area, East Antarctica <i>Naoto ISHIKAWA and Minoru FUNAKI...</i>	112
A preliminary study of secondary magnetization during successive heating of rocks from the Napier Complex <i>Naoko UENO, Tomoko OGISHIMA, Naoto ISHIKAWA</i> <i>and Minoru FUNAKI...</i>	125
Preliminary report on paleomagnetic study of the Yamato Mountains (Massifs B and C), East Antarctica <i>Naoto ISHIKAWA and Minoru FUNAKI...</i>	132
Petrogenesis of the tonalitic rocks from the Sor Rondane Mountains, East Antarctica <i>Yasuo IKEDA and Kazuyuki SHIRAIISHI...</i>	143
Geology of the Mt. Riiser-Larsen area of the Napier Complex, Enderby Land, East Antarctica <i>Hideo ISHIZUKA, Masahiro ISHIKAWA, Tomokazu HOKADA</i> <i>and Satoko SUZUKI...</i>	154
CHIME ages for granulites from the Napier Complex, East Antarctica <i>Masao ASAMI, Kazuhiro SUZUKI, Edward S. GREW</i> <i>and Mamoru ADACHI...</i>	172
Preliminary ⁴⁰ Ar- ³⁹ Ar analyses of igneous and metamorphic rocks from the Napier Complex <i>Yutaka TAKIGAMI, Naoto ISHIKAWA and Minoru FUNAKI...</i>	200
Sediment cores and their radiocarbon ages in the Western Ross Sea, Antarctica <i>Akira NISHIMURA, Toru NAKASONE, Chikara HIRAMATSU</i> <i>and Manabu TANAHASHI...</i>	208
Paleomagnetic study of marine sediments from Antarctic Sea—Central Wilkes Land margin, Dumon d'Urville Sea and Victoria Land Basin— <i>Hideo SAKAI, Eiichi KIKAWA, Takemi ISHIHARA,</i> <i>Hironori KOBAYASHI, Kiyoshi KOMORI and Aiko SUNAGAWA...</i>	222
Radiocarbon and thermoluminescence ages in the Mt. Riiser-Larsen area, Enderby Land, East Antarctica <i>Masashi TAKADA, Hideki MIURA and Daniel Peter ZWARTZ...</i>	239
Holocene lake sediments and sea-level change at Mt. Riiser-Larsen <i>Daniel Peter ZWARTZ, Hideki MIURA, Masashi TAKADA</i> <i>and Kiichi MORIWAKI...</i>	249

Late Quaternary East Antarctic melting event in the Sôya Coast region based on stratigraphy and oxygen isotopic ratio of fossil molluscs	<i>Hideki MIURA, Hideaki MAEMOKU, Koji SETO</i> <i>and Kiichi MORIWAKI...</i>	260
Note to contributors		275
Author index		277