

Polar Geoscience

No. 18

CONTENTS

Validation of grounding line of the East Antarctic Ice Sheet derived by ERS-1/2 interferometric SAR data <i>Tsutomu Yamanokuchi, Koichiro Doi and Kazuo Shibuya</i> ...	1
Magnetic fabric analysis of deformed rocks in the Riiser-Larsen Main Shear Zone, East Antarctica <i>Itoyuki Nishioka, Naoto Ishikawa and Minoru Funaki</i> ...	15
The first year of Antarctic VLBI observations <i>Takaaki Jike, Yoshihiro Fukuzaki, Kazuo Shibuya, Koichiro Doi, Seiji Manabe, David L. Jauncey, George D. Nicolson and Peter M. McCulloch</i> ...	26
Calibration of the superconducting gravimeter CT#043 with an absolute gravimeter FG5#210 at Syowa Station, Antarctica <i>Yoichi Fukuda, Sachiko Iwano, Hiroshi Ikeda, Yoshifumi Hiraoka and Koichiro Doi</i> ...	41
Installation of the superconducting gravimeter CT(#043) at Syowa Station, Antarctica <i>Hiroshi Ikeda, Koichiro Doi, Yoichi Fukuda, Yoshiaki Tamura and Kazuo Shibuya</i> ...	49
Paleomagnetic and K-Ar dating studies of Late Cretaceous basaltic dykes intruding Late Permian sediments of the Newcastle Coal Measures, Newcastle, Australia—Relationship to the opening of the Tasman Sea <i>Hideo Sakai, Eiichi Kikawa, Robin Offler and Horst Zwingmann</i> ...	58
Polarity reversals of remanent magnetization in sedimentary core from Northwind Ridge, western Arctic Ocean <i>Hideo Sakai, Yasuko Banba, Masae Horii, Takuya Itaki, Naoichi Ahagon and Eiichi Kikawa</i> ...	67
A numerical study of the ocean circulation around the northern Antarctic Peninsula: Barotropic response to tidal forcing <i>Walter C. Dragani, Enrique E. D'Onofrio, Jorge O. Speroni, Monica E. Fiore and Rocío Borjas</i> ...	83
Rb-Sr, Sm-Nd ages of the Phalaborwa Carbonatite Complex, South Africa <i>Masaki Yuhara, Yuka Hirahara, Naoko Nishi and Hiroo Kagami</i> ...	101

Geochemistry of the pre/syn-metamorphic granite in the Ongul Islands, East Antarctica .. <i>Yoshinobu Kawano, Akihiro Meno, Naoko Nishi and Hiroo Kagami</i> ...	114
Geodesy reference points within Syowa Station, Antarctica, and their local geodetic ties <i>Kazuo Shibuya, Koichiro Doi, Yoshihiro Fukuzaki</i> <i>and Masao Iwata</i> ...	130
Note to contributors	162
Author index	164