## Antarctic Record Vol. 58 (Nos. 1, 2, 3) CONTENTS

## No. 1 (March 2014)

Scientific Notes	
Monitoring of the Greenland ice sheet using a broadband seismometer network: the GLISN project	
	1
Revaluation of zooplankton wet weight data of the NORPAC net samples	
collected in the Indian sector of the Southern Ocean (in Japanese)	
Yukiko Ukai, Kunio T. Takahashi, Mitsuo Fukuchi and Atsushi Tanimura	19
Study on hardness of the 35-year-old structural gasket used at the observation hut	19
in Syowa Station (in Japanese)	
Hiroki Takahashi, Toshio Hannuki, Masaru Ayukawa,	
Yoshika Takechi and Tohru Ohtsuka	42
Report	12
Snow controls to reduce snow drifts at Syowa Station (in Japanese)	
Kenji Ishizawa	52
Symposium/Meeting Report	
Report on 1st and 2nd Joint Workshops on Australian and Japanese Collaboration in Antarctic Science and related achievements	71
No. 2 (July 2014)	
Scientific Papers	
Study of the substorm: Part 1: From the observation at Syowa Station	
to the motivation for simulation (in Japanese)	89
Study of the substorm: Part 2: Development of magnetosphere-ionosphere convection to the substorm (in Japanese)	09
Takashi Tanaka	108
Scientific Note	
Improvements in methods of analyzing dust concentrations, and influence of	
the storage processes on dust concentrations in polar snow and ice samples (in Japanese)	
Takayuki Miyake, Hironobu Yamada, Kumiko Goto-Azuma,	
Takayuki Kuramoto, Motohiro Hirabayashi and Hideaki Motoyama	150
Reports	
Activity report of the 52nd Japanese Antarctic Research Expedition (JARE-52)	
wintering party in 2011–2012 (in Japanese)	
Hitomi Miyamoto and Masaki Tsutsumi	181

Meteorological observations at Syowa Station, Antarctica, 2009 by the 50th	
Japanese Antarctic Research Expedition (in Japanese)	
Juhei Sugaya, Hikaru Doi, Hiroshi Tatsumi,	
Satoshi Ito and Tomohide Komori 2	233
No. 3 (November 2014)	
Scientific Note	
Reprocessing of <i>Shirase</i> shipborne gravity data (in Japanese)	
Kazuya Matsuzaki, Yoichi Fukuda and Yoshifumi Nogi 2	295
Reports	
Report on gravity measurements and replacement of an unmanned magnetometer	
in the Sør Rondane Mountains, Eastern Dronning Maud Land, 2013	
(JARE-55) (in Japanese)	
Yusuke Suganuma, Yoichi Fukuda, Yuichi Aoyama and Masaki Okada 3	309
Improvement of shipborne sky radiometer and its demonstration aboard	
the Antarctic research vessel Shirase	
Noriaki Tanaka, Hiroshi Kobayashi, Toshiyuki Murayama	
and Masataka Shiobara 3	341
Report of the 2007/2008 Japanese-Swedish joint Antarctic traverse: I. Planning,	
preparations, and outline of scientific achievements (in Japanese)	
Shuji Fujita, Kotaro Fukui, Fumio Nakazawa, Hiroyuki Enomoto,	
Shin Sugiyama, Yoshiyuki Fujii, Koji Fujita, Teruo Furukawa,	
Keiichiro Hara, Yu Hoshina, Makoto Igarashi, Yoshinori Iizuka,	
Satoshi Imura, Hideaki Motoyama, Sylviane Surdyk and Ryu Uemura 3	352
Report on a modified ice-fence for oceanographic observations under heavy	
sea-ice conditions during JARE-54 and JARE-55 (in Japanese)	
	393

Note to contributors

Contents of Antarctic Record Vol. 58 (Nos. 1, 2, 3)

Author Index of Antarctic Record Vol. 58 (Nos. 1, 2, 3)