Antarctic Record Vol. 40, No. 2

CONTENTS

Scientific Papers
Broad-spatial characteristics and energy spectrum characteristics of auroral
X-rays observed by a Polar Patrol Balloon (in Japanese)
Hiromu Suzuki12
A newly developed grab sampling system for collecting stratospheric air
over Antarctica
Hideyuki Honda, Shinji Morimoto,
Hiromitsu Akiyama, Gen Hashida, Shuhji Aoki,
Hirotaka Ui, Takakiyo Nakazawa, Nobuyuki Yajima
and Takashi Yamanouchi15
Scientific Note
Stable isotopic composition of Antarctic air moisture and precipitation
Günter Schwarz, Klaus Ohm, Takashi Yamanouchi,
Teruo Furukawa, Peter Kowski and Hartwig Gernandt 16
Review
Measurements and experiments on geomorphic processes in Antarctic
ice-free mountains: A review (in Japanese)
Reports
Meteorological observations at Syowa Station in 1993 by the 34th Japanese
Antarctic Research Expedition (in Japanese)
Toshinori Takao, Jinji Koike, Yoshihiro Kamata,
Okimasa Sugita and Keizô Sakurai 20
Carotenoids in lichens from the Antarctic
Bazyli Czeczuga, Masakane Inoue and Dalip Kumar Upreti24
Symposium Meeting Reports
Report on workshop "Study of the Antarctic ice sheet and glacier using
ERS-1/JERS-1 SAR data" (in Japanese)
Akira Takahashi,
Okitsugu Watanabe and Natsuo Sato 25
Report on workshop "Public use and scientific study of broadband seismic
data at Syowa Station, Antarctica" (in Japanese)
Masaki Kanao and Atsuki Kubo 25