## Antarctic Record Vol. 35, No. 2

## **CONTENTS**

Scientific Notes
Polar Patrol Balloon (PPB) experiment of the 30th Japanese Antarctic Research Expedition (1989–1990)
Akira Kadokura, Masaki Ejiri, Shigeo Ohta and Hiromitsu Akiyama143
Copepods collected along 13°E longitude of the Antarctic Ocean in the 1973 summer
Satoshi Yamada, Atsushi Tanimura and Takashi Minoda15
Reports
Activities of the wintering party of the 30th Japanese Antarctic Research Expedition, 1989-1990 (in Japanese)
Masaki Ejiri and Shigemi Meshida16
A plan for observation of the Antarctic ozone hole in 1991 under the Polar
Patrol Balloon (PPB) project
Hiroshi Kanzawa and Yutaka Kondo22
Biological surveys in the Sør Rondane Mountains, Dronning Maud Land, in
1989 and 1990 seasons
Yoshikuni Ohyama, Seigo Higashi, Hiromi Miyawaki,
Shin-ichi Hiruta and Hiroshi Kanda238
Mental and physical changes of wintering members of the 30th Japanese
Antarctic Research Expedition in 1988–1990 (in Japanese)
Shunji Takami and Tadashige Sakamoto24
Report on the marine biological research in ice-covered waters of the Beau-
fort Sea, March 1990 (in Japanese)
Kentaro Watanahe, Kouichi Kawaouchi and Brendan Kelly 26