ENVIRONMENTAL RESEARCH IN THE ARCTIC 2000

NATIONAL INSTITUTE OF POLAR RESEARCH TOKYO MARCH 2001

Editorial Board

Editor-in-Chief: Okitsugu Watanabe, National Institute of Polar Research (NIPR)

Editors: Takehiko Aso, NIPR

Masaki Ejiri, NIPR

Ryoichi Fujii, Nagoya University

Yoshiyuki Fujii, NIPR

Mitsuo Fukuchi, NIPR

Yoshikuni Hiroi, Chiba University

Hiroshi Kanda, NIPR

Shun'ichi Kobayashi, Niigata University

Satoru Kojima, Tokyo Woman's Christian University

Shinji Mae, Hokkaido University

Masamichi Miyamoto, University of Tokyo

Yasuhiko Naito, NIPR

Hiroshi Sasaki, Senshu University of Ishinomaki

Kazuo Shibasaki, Kokugakuin University

Kazuo Shibuya, NIPR

Kazuyuki Shiraishi, NIPR

Masashi Takada, Nara Women's University

Hideki Wada, Shizuoka University

Takashi Yamanouchi, NIPR

MEMOIRS OF NATIONAL INSTITUTE OF POLAR RESEARCH SPECIAL ISSUE No. 54

ENVIRONMENTAL RESEARCH IN THE ARCTIC 2000

Proceedings of the Second International Symposium on Environmental Research in the Arctic and Fifth Ny-Ålesund Scientific Seminar, 23-25 February 2000, NIPR, Tokyo

Edited by Okitsugu Watanabe and Takashi Yamanouchi

PUBLISHED BY NATIONAL INSTITUTE OF POLAR RESEARCH

TOKYO MARCH 2001

Memoirs of National Institute of Polar Research Special Issue, No. 54

ENVIRONMENTAL RESEARCH IN THE ARCTIC 2000

Proceedings of the Second International Symposium on Environmental Research in the Arctic and Fifth Ny-Ålesund Scientific Seminar, 23–25 February 2000, NIPR, Tokyo

Editorial board of this volume

Editor-in-chief: Okitsugu Watanabe (NIPR) Executive editor: Takashi Yamanouchi (NIPR)

Editors:

Takehiko Aso (NIPR)
Kaoru Sato (NIPR)
Masataka Shiobara (NIPR)
Yoshiyuki Fujii (NIPR)
Kokichi Kamiyama (NIPR)
Tsuneo Odate (NIPR)
Hiroshi Kanda (NIPR)
Satoru Kojima (TWCU)

Tadahiro Sato (NAO) Hajime Ito (NIPR) Chris Hall (Univ. Tromsø)

Hartwig Gernandt (AWI)

Elisabeth Isaksson (NP)

Louis Legendre (Univ. Laval)

Ulf Molau (Göteborg Univ.)

Kim Holmén (Stockholm Univ.)

Copyright 2001 by the National Institute of Polar Research 9–10, Kaga 1-chome, Itabashi-ku, Tokyo 173-8515

Printed by Yoshimi Kohsan Corporation