

## Foreword

The Fifth Symposium on Polar Meteorology and Glaciology sponsored by the National Institute of Polar Research was held on 7–9 December 1982. A series of this symposium reflects continuing efforts of polar meteorologists, glaciologists and physical oceanographers. From 1979 to 1981 the Japanese Polar Experiments in the Antarctic (POLEX-South) were carried out by the Japanese Antarctic Research Expeditions and at home institutions. Air–ice sheet–sea (ice) interactions were the main research subjects of POLEX-South, and the field research in 1981 was concentrated on the air–ice sheet interactions in the inland ice sheet areas. The results of field research in 1981 are presented together with the analyses of data obtained in the previous years. This symposium was also aimed at the presentation of preparatory work to contribute to the internationally coordinated Middle Atmosphere Programme (MAP); the Japanese MAP in the Antarctic is to be implemented in 1982–1985.

The main topics of the symposium were: clouds and snow crystals, synoptic meteorology, boundary layer meteorology, radiation, snow cover, ice sheet, climatic change, sea ice and oceanography, and middle atmosphere. A total of 53 papers were presented and the present volume contains 22 original papers and 26 abstracts. These papers were arranged in the order of scientific areas of meteorology, oceanography, glaciology, and MAP-related subjects.

I believe that this volume will contribute to the furtherance of research on polar atmosphere, cryosphere and hydrosphere. My sincere thanks are due to all of the contributors and reviewers who have readily cooperated to bring about this proceedings.

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