

FOREWORD

This special volume of *Nankyoku Shiryô* (Antarctic Record) is the "Proceedings of the First Symposium on Antarctic Meteorology and Glaciology" which was held on 5th and 6th, December 1978 at the National Institute of Polar Research (NIPR). This Symposium was organized with a specific aim that all results of recent meteorological and glaciological researches carried out to date by the Japanese Antarctic Research Expedition (JARE) are critically summarized and reviewed in order to find key problems to be attacked in the planned Japanese programs within the international scheme of Antarctic Polar Subprogram (POLEX-South) of "Global Atmospheric Research Program (GARP)". Actually, a three-year program of POLEX-South has already been started by JARE in 1979 based on the conclusion obtained in this Symposium.

This volume of the Proceedings contains 5 papers of glaciology, 5 papers of meteorology, 2 papers of cloud physics and 3 papers of oxygen isotope study. As seen in the list of contents, the major problem discussed in the Symposium was concerned with the mutual interaction between the atmosphere and the cryosphere at and near their boundary surface in the Antarctic inland. In addition, some meteorological and glaciological problems observed at the Antarctic sea coast area also were discussed in the Symposium.

As this Symposium on Antarctic meteorology and glaciology was the first one at NIPR, this volume of proceedings of the Symposium may not fully cover all important problems in the specific fields of Antarctic science, but it is obvious that a number of key problems concerned with Antarctic meteorology and glaciology have been pointed out and partly clarified in those studies presented to the Symposium.

It is hoped that this volume can be the first step for comprehensive studies of East Antarctic meteorology and glaciology, now under planning and implementation by NIPR.

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Takesi NAGATA, Director
National Institute of Polar Research