

Foreword

The 13th Symposium on Antarctic Geosciences, sponsored by the National Institute of Polar Research (NIPR), was held on 21 and 22 October 1993 at NIPR, Tokyo. A total of 48 papers were presented at the symposium, as shown in the program on the last page of this volume. The last six papers were read at the workshop titled "Holocene Environmental Changes", as part of this symposium. The proceedings of the workshop will be published separately.

A special lecture was given on the first day of the symposium by Dr. A. McMINN, University of Tasmania, titled "Holocene high resolution paleoclimate records from the Vestfold Hills".

The present volume consists of 15 full-length papers and 11 abstracts dealing with all fields of geoscience in the Antarctic region. Papers and abstracts are arranged by scientific field as follows: solid earth geophysics, geology and geomorphology. Topics in solid earth geophysics include reports of absolute gravity measurements at Syowa Station and a gravity survey in a new field of Mizuho Plateau, East Antarctica. Geological science includes geochronological, petrological and structural studies of the igneous and metamorphic basement rocks of the East Antarctic shield. The geological samples were collected mainly around the Sør Rondane Mountains, the Yamato Mountains, Enderby Land, and Syowa Station. Geological correlation studies also include other Gondwana fragments such as Sri Lanka and India. Geomorphological science includes studies on glacial movement in the Sør Rondane Mountains and results of geomorphological investigations around Syowa Station.

The present volume is regarded as one firm step towards the planned promotion of Japanese Antarctic geoscience research.

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