

Preface

Research programs in earth sciences have been carried out by Japanese Antarctic Research Expeditions in various branches such as geology and solid earth geophysics since the beginning of expeditions in 1957. The results obtained have been published usually as scientific papers in many kinds of journals including publications by the National Institute of Polar Research. These papers, however, rarely contain firsthand or unprocessed numerical data. For the purpose of publishing such kind of data, the National Institute of Polar Research issued "JARE Data Reports" in several scientific fields. In the field of earth sciences, only volumes of "Seismology" series have been published up to this day.

In 1979-1981, the three-year earth sciences project was carried out by the 20th-22nd Japanese Antarctic Research Expeditions in the Lützow-Holm Bay region for the comprehensive understanding of crustal structure from various viewpoints. Taking this opportunity, we intend to publish firsthand data in some branches of earth sciences as "Earth Science" series in the JARE Data Reports.

This first volume comprises results of aeromagnetic surveys and gravity measurements. We hope that the Earth Science series will be of use as basic materials for further studies.

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