

PREFACE

The Dome Fuji Program is a major achievement in glaciological and environmental study, designed and performed by collaboration efforts among the Japanese Society of Snow and Ice, National Institute of Polar Research and other colleagues. This program is a natural outgrowth of research on ice cores from Mizuho Station, Antarctica.

The Dome Fuji deep ice core was retrieved by JARE during the 1993–1997 inland operations at a summit in east Dronning Maud Land, Antarctica. Since then, core analyses have been conducted to set a new basis for present and future ice core studies.

Invited “key” researchers at Minami-Aoyama-Kaikan, Tokyo, on 27–28 February 2001, held the International Symposium on the Dome Fuji deep ice core. The objectives of this symposium are:

(1) To summarize the results obtained from studies on deep ice cores including the Dome Fuji core, and (2) To exchange core information and ideas to understand the needs and problems in core research.

A total of 31 papers were presented at the symposium under six major topics: (1) Geophysical conditions at Dome Fuji, Antarctica, (2) Ice core dating methods, (3) Physical properties of deep ice cores and ice sheet flow dynamics, (4) Terrestrial and marine environmental signals and climate changes, (5) Paleo atmospheric environments recorded in deep ice cores, and (6) Greenland deep ice core studies. The present volume contains fifteen full papers, submitted under three categories: scientific original papers, scientific notes and review papers.

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