

FOREWORD

From its establishment in 1981 until 1986, the Kagoshima University Research Center for the South Pacific conducted interdisciplinary projects, entitled "Scientific Survey of the South Pacific". The research projects were joint research activities between the Kagoshima University Research Center for the South Pacific and research organizations in countries visited for study and were financially supported by the Special Research Grant of the Ministry of Education, Science and Culture, Japan.

In 1989, a new stage of the project was started and continued for three years focusing on Papua New Guinea (PNG). It was entitled "Man and the Environment in Papua New Guinea". The academic fields concerned were ecological, sociological and bioproductive features of the natural environment, community health, and the people of the country. Surveys were carried out in Lae and Port Moresby in 1989, and again in 1990. In the 1991 academic year, the final stage of three years of projects in Lae and Wewak, an expedition consisting of 18 scientists from various disciplines and four Kagoshima University graduate students was organized. All of the researchers were grouped into five survey teams according to their fields of specialization.

The research subjects of the respective teams are as follows:

- I. Development of agricultural resources and land use.
- II. Development of aquacultural resources in the coastal regions.
- III. Seroepidemiological study of human T-Lymphotropic virus.
- IV. Traditional social systems and their transformation.
- V. Oceanic structures and their fluctuation in the tropical Pacific.

I sincerely thank Dr. S .H. Pearse, former Vice-Chancellor, the Papua New Guinea University of Technology; Professor Lance Hill, Faculty Dean of Sciences, University of Papua New Guinea; Dr. Jacob L. Simet, Director, Institute of PNG Studies; Mr. Anthony Bego, Chairman, Morobe Provincial Research Committee; Mr. Francis Sumanop, Provincial Planner, East Sepik Province; Mr. Shizuka Kawabata, Manager, Paradise New Wewak Hotel; Mr. Yasuo Noguchi, Japanese Ambassador to Papua New Guinea; and many other cooperative researchers who joined our project in PNG.

I am also heartily grateful to Mr. Masao Nakayama, Ambassador, Embassy of the Federated States of Micronesia (FSM) in Tokyo, for helping us obtain the research permit for oceanographic survey within the territorial waters of FSM and for his generous support for our scheme.

I am also grateful to the Japanese Ministry of Education, Science and Culture and I wish to express our deepest gratitude to Dr. Akihiro Igata, President of Kagoshima University; the staff of the Faculty of Fisheries and the administrative staff of Kagoshima University who helped us in fulfilling the survey.

With the help of these people throughout the expedition in PNG, our cooperative research survey was able to be carried out with great success.

Shin'ichi Terashi
Former Director,
Kagoshima University
Research Center for the South Pacific

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It is a pleasure to have been asked to write a foreword for this volume of research papers.

The existing co-operation between the PNG University of Technology and the Kagoshima University Research Center for the South Pacific was further strengthened when the research and training vessel, the Keiten Maru arrived in Lae November 1991 to follow up on joint research activities on the general theme of "Man and the Environment." This was the third visit by the research team to our Country.

It will be beneficial to scientists of both institutions to conduct seminars when the Keiten Maru next visits Lae. This should help publicize the type of research work carried out by the scientists from Kagoshima University.

Finally, everything possible should be done to maintain this co-operation between the two institutions and this will further strengthen the cordial relations between Japan and Papua New Guinea in years to come.

Misty E. Baloiloi
Vice-Chancellor,
The Papua New Guinea
University of Technology

FOREWORD

From 1981 to 1986, the Kagoshima University Research Center for the South Pacific conducted five scientific field surveys, sponsored by a special research grant from the Japanese Ministry of Education, Science and Culture. During that time, we visited Fiji (1981 and 1982), the Solomon Islands (1982), Papua New Guinea (1983), Pohnpei (1985), Chuuk (1985), Belau (1986) and Yap (1986). After the reorganization of the Center in 1988, we decided to have another series of scientific field surveys, but with a more specific emphasis. Thus, we began a three year project titled "Man and the Environment in Papua New Guinea" in 1989, which was also sponsored by a special research grant by the Japanese Ministry of Education, Science and Culture.

The present volume is a progress report of our last survey conducted in areas around Lae, Morobe Province, and Wewak, East Sepik Province in 1991. The Japanese party consists of 18 scientists from various disciplines, one administrative officer and four graduate students. The research parties were grouped into five survey teams according to the subjects of the specific members. For these survey teams, we were lucky enough to have support from scientists and government officials not only in Lae and Wewak but also from Port Moresby. Some of them were able to directly participate in the field survey of our research party.

The last survey was the final survey of our current project. Since the initiation of the project, we have been lucky to have strong support from many individuals, scientists, government officials and institutions in Papua New Guinea. Without such support, our survey could not have been successful. During the period of the current project, we were also able to exchange "Memorandum of Understanding on Research and Training Cooperation in Marine, Terrestrial and Human Sciences" between the University of Papua New Guinea, the Papua New Guinea University of Technology, and Kagoshima University. Although the last survey is the final expedition to Papua New Guinea for the current project, we sincerely hope the development of our current research and the expansion of the scientific cooperation between Papua New Guinea and Japan.

Mitsuru Hayashi
Leader of the 1991 Survey Party
to Papua New Guinea