## Foreword

Since 1980, we have been engaged in the field and laboratory studies on a "living fossil" species *Nautilus pompilius* LINNAEUS inhabiting the Philippines and Fiji. The processes of our studies and the reports on them are listed below. The Philippines :

1980 Preliminary survey

1981 Field study (main investigation)

 $[HAYASAKA et al., 1982]^1$ 

1982 Laboratory study

 $[HAYASAKA, 1983]^2$ 

Fiji :

1981 Preliminary survey

[HAYASAKA and SHINOMIYA, 1982; HAYASAKA *et al.*, 1984]<sup>3</sup> 1982 Preliminary survey

[TSUKAHARA and ONO, 1983]<sup>4</sup>

1983 Field study (main investigation)

1984 Laboratory study

[HAYASAKA, 1985]<sup>5</sup>

1986 Field study (2nd operation in Fiji)

The field study carried out in 1986 was the second operation in Fiji (Figs. 1 and 2). For the past one year (fiscal year 1987), we have been engaged in the laboratory works on *Nautilus* and its associated fauna based on the data obtained through the field works performed in 1986.

In this volume we report the processes and the results of field and laboratory studies performed in 1986 and 1987.

For the laboratory works on the specimens of *Nautilus* and its associated fauna, four scientists other than the members kindly joined in the present study. We wish to express our gratitude to Mr. Esekia SOLOFA, Acting Vice-Chancellor

HAYASAKA, S., SAISHO, T., KAKINUMA, Y., SHINOMIYA, A., OKI, K., HAMADA, T., TANABE, K., KANIE, Y., HATTORI, M., VANDE VUSSE, F., ALCALA, L., CORDERO, P. A. Jr., CABRERA, J. J. and GARCIA, R. G., 1982: Field study on the Nautilus in the environs of Cebu and Negros Island, the Philippines. Mem. Kagoshima Univ. Res. Center S. Pac., 3(1), 67-115.

HAYASAKA, S., (ed.), 1983: Studies on Nautilus pompilius and its associated fauna from Tañon Strait, the Philippines. Kagoshima Univ. Res. Center S. Pac., Occasional Papers, 1, 1-54.

<sup>3)</sup> HAYASAKA, S. and SHINOMIYA, A., 1982: Marine ecological study on the habitat of Nautilus in the environs of Viti Levu Island, Fiji (in Japanese). Sci. Res. Rep. Oceania, (NAV '81) Kagoshima Univ. Res. Center S. Pac., 1, 69-73. HAYASAKA, S., RAJ, U. and SHINOMIYA, A., 1984: Preliminary field study on the habitat of Nautilus pompilius in the environs of Viti Levu, Fiji. Prompt Rep. Sci. Surv. S. Pac., Kagoshima Univ. Res.

*pompulus* in the environs of Viti Levu, Fiji. *Prompt Rep. Sci. Surv. S. Pac., Kagoshima Univ. Res. Center S. Pac.*, 1, 76–83.
4) TSUKAHARA, J. and ONO, S., 1983 : Preliminary study on the reproductive biology of *Nautilus pompilius*

in Fiji. Prompt Rep. Sci. Surv. S. Pac., Kagoshima Univ. Res. Center S. Pac., 2, 19–23.

<sup>5)</sup> HAYASAKA, S., (ed.), 1985: Marine ecological studies on the Habitat of Nautilus pompilius in the environs of Viti Levu, Fiji. Kagoshima Univ. Res. Center S. Pac., Occasional Papers, 4, 1-96.

of the University of the South Pacific, Suva, Fiji, for his kind acceptance of our proposal on the present joint project between U. S. P. and Kagoshima University.

Particular thanks are due to Mr. Saran SINGH of the Institute of Marine Resources, the University of the South Pacific, for his invaluable help for planning and operating the field study in 1986.

We are also indebted to the crew of R.V. Aphareus and R.V. Nautilus, for their great help in field operation.

We deeply appreciate the financial support for the present project provided by the Ministry of Education, Science and Culture of the Japanese Government.

Shozo HAYASAKA

## Members

Five Japanese and a Fijian reseachers participated in the project. Their names and special fields are listed below.

- Dr. Shozo HAYASAKA, Geology and Paleontology, Faculty of Science, Kagoshima University, Kagoshima, Japan.
- Dr. Akihiko SHINOMIYA, Marine Biology, Faculty of Fisheries, Kagoshima University, Kagoshima, Japan.
- Dr. Kimihiko ŌKI, Geology and Paleontology, Faculty of Science, Kagoshima University, Kagoshima, Japan.
- Dr. Kazushige TANABE, Geology and Paleontology, Faculty of Science, The University of Tokyo, Tokyo, Japan.
- Dr. Mutsuo HATTORI, Marine Geology, Japan Marine Science and Technology Center, Yokosuka, Japan.
- Dr. Uday RAJ, Marine Biology, Institute of Marine Resources, The University of the South Pacific, Suva, Fiji.