Jpn. J. Histor. Bot. Vol. 2 No. 2 p. 63–92 April 1994 植生史研究

Toshimasa TANAI* : Bibliography of Cenozoic Paleobotany in Japan through 1992 (Exclusive of the Holocene and palynological articles)

Introduction

More than one hundred years have passed since fossil plants in Japan were first described by European scholars. The first paper on the Cenozoic flora of North Kyushu (NATHORST, 1883) was published with full discussion of its floral composition, and a taxonomic paper on Jurassic plants of Central Honshu by GEYLER appeared in 1877. Paleobotanical research in Japan had considerably developed by the 1940's, and recently covers most land plants, algae and phytoplankton taxa, ranging from the Devonian to the Pleistocene. Investigations have also extended from Japanese Islands to Northeast and Southeast Asia, and further to other continents. Paleobotanical studies based on macrofossils were summarized first by OISHI (1935) and then by TANAI (1968, 1977) with selected bibliographies, and also by ASAMA (1976) for Paleozoic plants, by KIMURA (1976) for Mesozoic plants and by TANAI (1976) for Cenozoic plants.

During the past two decades numerous paleobotanical papers including palynological articles have been published in Japan ; it has become difficult for investigators to easily find the necessary papers in their personal libraries for taxonomic comparison and phytogeographic discussions. No paleobotanical catalogue and bibliography has been published in East Asia. However, over the last 40 years I have created a catalogue and bibliography of Cenozoic plants of East Asia for my personal needs. They include macrofossil records, which have been known not only from Japan, but from Sakhalin, Kamchatska, Korea and continental East Asia. In 1987 this catalogue was partially converted to a floppy disc with the aid of Miss Toshiko WATANABE, my technical assistant at Hokkaido University. A plan is now in progress to complete this catalogue as a data base of Cenozoic plants in Japan by some of my colleagues.

A catalogue needs, first, complete bibliography. I intend here to edit a bibliography of Cenozoic paleobotany of Japan as the first step. Then the bibliographic works will expand to the adjacent regions of East Asia through the co-operation of paleobotanists from other countries. The bibliography prepared here includes all the paleobotanical papers including taxonomy based on Cenozoic macrofossils in Japan. For the convenience of the reader the taxonomical papers of Cenozoic plants of East Asia outside of Japan, which were described by Japanese workers, are also included, because most of the type specimens are housed in institutions in Japan. Furthermore, selected papers on related subjects such as plant-biostratigraphy, fossil occurrence and paleoclimate are also included.

In Japan, palynological works have progressed extensively, especially on the Pliocene and Pleistocene. As a result of archaeological excavations, paleobotanical papers of Holocene plants that are based on macro- and micro-remains have been increasingly available. It is, however, beyond my task to edit completely all these references, and the palynological and Holocene articles are excluded from this bibliography.

In order to make the bibliography as complete as possible, I asked to some of my colleagues working on Cenozoic paleobotany to read the manuscripts concerned. I would like to thank who

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kindly accepted my request. I would especially like to thank Dr. Sei'ichiro TSUJI of Osaka City University for his kind support in publishing this bibliography.

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