

FISHES OF JIANGSU PROVINCE

江苏

鱼类志

倪勇 伍汉霖 主编

承担单位

江苏省淡水水产研究所
江苏省海洋水产研究所

中国农业出版社



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Fishes of Jiangsu Province

Editors in Chief
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内容提要

江 苏 鱼 类 志

本书为中国鱼类区系研究的一个组成部分，对全面了解、合理开发、可持续利用江苏鱼类资源具有现实意义，也是迄今江苏鱼类研究较为完整的专著。

本书总论介绍江苏的地理与气候特征、水系水域与水资源、水域理化性质、饵料生物资源、鱼类生物资源及其利用、鱼类养殖、鱼类研究史和鱼类区系研究概述；各论编入 476 种、分隶于 3 纲、36 目、144 科、327 属。书中较为详细地描述了各种鱼类的形态特征，并尽可能对一些经济鱼类的生物学特征、捕捞养殖状况和经济价值等进行重点的介绍，并附有插图和检索表。另外，对以往从国内外引入江苏的海、淡水鱼类，作为附录也作了概述。

本书可作为大专院校生物系水产专业师生、水产研究和水产管理工作者的参考书。



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前 言

江 苏 鱼 类 志

江苏省位于我国东部，地处北纬 $30^{\circ}46'$ ~ $35^{\circ}07'$ ，东经 $116^{\circ}22'$ ~ $121^{\circ}55'$ ，东临黄海和东海，西接安徽，南界上海、浙江，北与山东接壤，总面积为 10.26 万 km^2 。境内海岸线漫长（约 $1\,039.7\text{km}$ ），长江、淮河贯穿其中，江河纵横，湖泊众多，水面辽阔，自然条件优越，气候温和湿润，鱼类资源丰富，其中很多种类是重要的捕捞和养殖对象，具有较高的经济价值。

近50年来，在江苏省海洋与渔业局和江苏省科技厅等主管部门的组织和领导下，有关大专院校和科研单位对省内各类水域（海洋、湖泊、江河）进行了多次综合性调查和鱼类资源专项调查，并在2002年9月至2004年12月，以启东吕四、连云港、太湖、洪泽湖、骆马湖和长江江苏段为重点，又进行了海、淡水鱼类的补充调查和采集，积累了大量的鱼类标本（约6万号）和丰富的渔业生物学等方面的资料，这为编写本志奠定了坚实的物质基础。编著和出版一本比较完整和系统的《江苏鱼类志》，对全面了解江苏鱼类资源及渔业状况是必要的，同时，对江苏鱼类资源的合理开发利用和渔业生产的可持续发展具有重要的现实意义。

本志主要以下列各研究单位、大专院校等历年来在江苏省各类水域中多次调查积累的鱼类标本和资料为依据：江苏省淡水水产研究所、江苏省海洋水产研究所、上海水产大学、华东师范大学、南京农业大学无锡渔业学院、南京大学、苏州大学、淮海工学院海洋学院（前连云港水产学校）、徐州师范大学、南京师范大学、中国水产科学研究院淡水渔业中心、中国水产科学研究院东海水产研究所、中国科学院南京地理与湖泊研究所、中国科学院水生生物研究所、中国科学院动物研究所、淮阴农业学校、南通农业学校（现南通农业技术职业学院）、江苏省太湖渔业生产管理委员会、苏州市水产研究所、洪泽县水产研究所、南通市海洋与渔业局展示室、赣榆县海洋与渔业局展示室、兴化县水产研究所、宝应县水产技术推广站、苏州吴中区水产技术推广站和苏州市水产养殖公司等。

本志在总论部分叙述了江苏的地理与气候特征、水域与水资源、水域理化性质（水质状况）、饵料生物资源、鱼类资源及其利用、鱼类养殖、鱼类研究史和鱼类区系概述。各论部分编入江苏鱼类476种，分隶于327属，144科，36目，3纲。其中有1新种：异唇副沙鳅 *Parabotia heterocheilus* Zhu et

Chen. sp. nov. (鳅科 Cobitidae), 省新记录 168 种 (海水鱼 161 种, 淡水鱼 7 种)。而梅氏美体鳗 (*Ariosoma meeki*) 和粗鳍鱼 (*Trachypterus trachypterus*) 也是中国新记录种。本志对每种鱼的形态特征作了较详细的描述, 并尽可能对经济鱼类的生物学特性 (生活习性、繁殖生长、食性、洄游分布)、渔业状况 (如渔期、渔场、渔法、养殖)、经济价值及资源保护等进行重点介绍, 一些在分类上存在异议的种类进行了讨论和说明。

本志还对各目鱼类的属名、种名之原始出处、属的模式种均作了较详细的记述, 长期以来这些原始出处被引述时出现的错误一直未被纠正, 本志参考 W. N. Eschmeyer, 1998. *Catalog of Fishes* 一书, 纠正了这方面的错误达 185 处之多, 保证了本志的科学价值。

对从国内、外引入江苏的一些养殖鱼类集中在附录中予以概述。为便于识别, 各种鱼都附有形态图和部分彩图。本志圆口纲和软骨鱼纲的分类系统依照《中国动物志圆口纲、软骨鱼纲》(朱元鼎, 孟庆闻等, 2001) 的分类排列; 硬骨鱼纲的分类系统采用《中国鱼类系统检索》(成庆泰, 郑葆珊主编, 1987) 的分类系统。本志是迄今江苏鱼类研究较为全面、系统的专著, 是中国鱼类区系研究的一个组成部分, 具有较高的科学价值。

编写和出版《江苏鱼类志》一直是江苏水产界广大干部、科技人员和渔业生产者的迫切愿望, 现由江苏省海洋与渔业局主持, 以江苏省淡水水产研究所和江苏省海洋水产研究所为主, 邀请省内外有关院校、科研单位的专家参加编写, 共同完成。

在调查和编写过程中, 江苏省海洋与渔业局、各市(县、区)水产局、渔政站和水产技术推广站、各大中型湖泊的渔业生产管理委员会以及上述省内外有关院校、研究所等各级领导、专家、水产干部和渔民群众给予课题组许多帮助; 李思忠、王文滨、乐佩琦、罗云林、孙帼英、张开翔、张春光、张鸮、刘焕章、唐文乔、钟俊生、张洁等研究员、教授和博士惠借资料并提出宝贵意见, 日本东京大学 Dr. 新井良一 (R. Arai)、京都大学 Dr. 中坊彻次 (T. Nakabo), 韩国鱼类学家 Dr. 姜彦钟教授惠寄文献; 吴福权协助采集和测定标本; 许爱国赠予许多苏州澄湖标本, 洪克明提供了常熟浒浦数种有价值的标本, 牟阳绘制部分插图, 庄棣华拍摄部分彩图, 在此, 一并致以衷心感谢。

由于采集点还不够广泛, 势必会遗漏一些种类, 有待今后不断补充。本志如有不足之处, 我们诚恳欢迎各种建设性批评。

倪 勇 伍汉霖

2006 年 10 月

Preface

Jiangsu Province is situated in the eastern part of China ($30^{\circ}46' \sim 35^{\circ}07'N$, $116^{\circ}22' \sim 121^{\circ}55'E$), bounded on east by the Yellow Sea and East China Sea, on West by Anhui, on south by Shanghai, Zhejiang, and on north by Shandong. It covers a total area of 102 600 square kilometers, with a long coastline of about 1 039.7 kilometers. The Changjiang River and Huaihe River run through the Province. There are many favorable natural conditions such as criss-cross rivers, a large number of lakes, a vast expanse of water surface, temperate and damp climate which contribute to the abundant fish resources and create many important species for fishing and cultivation with higher commercial value.

In recent fifty years, under the organization and leadership of the competent departments of Jiangsu Provincial Bureau of Ocean and Fisheries and Jiangsu Provincial Department of Science and Technology, comprehensive surveys and special investigations on fishery resources in various kinds of waters (oceans, lakes, rivers) within the Province have repeatedly been carried out by universities and institutions of higher education, and scientific research units. The supplementary investigations and collections of seawater and freshwater fishes were also conducted from September 2002 to December 2004, with emphasis on Qidong, Lusi, Lianyungang, Taihu Lake, Hongzehu Lake, Luomahu Lake and the section of Jiangsu in the Changjiang River. Lots of fish specimens (about 60 000 specimens) and fishery biological data have been accumulated. In such cases, the edition of this volume has laid a solid foundation. The edition and publication of a volume of 《Fishes of Jiangsu》 with more comprehensive and systematic data is essential to the entire comprehension of fish resources and fisheries situation in Jiangsu. Furthermore, it is of great practical and immediate significance to the rational exploitation and utilization of fish resources as well as to sustainable development of fisheries production in Jiangsu.

The present volume is based on the fish specimens and data collected from the survey on the various kind of waters in Jiangsu Province over the years by the following research units, universities and colleges: Freshwater Fisheries Research Institute of Jiangsu Province, Marine Fisheries Research Institute of Jiangsu Province, Shanghai Fisheries University, East China Normal University, Wuxi Fisheries College of Nanjing Agricultural University, Nanjing University, Suzhou University, Ocean College of Huaihai Industrial College (formerly called Lianyungang Fisheries Technical college), Xuzhou Normal University, Nanjiang Normal University, Freshwater Fisheries Research Center, Chinese Academy of Fishery Sciences, East China Sea Fisheries Institute, Chinese Academy of Fishery Sci-

ences, Nanjing Geographical and Lake Research Institute, Academia Sinica, Aquatic Life Research Institute, Academia Sinica, Animal Research Institute, Academia Sinica, Huaiyin Agricultural School. Nantong Agricultural School (Now called Nantong Agricultural Technical Vocational College), Taihu Lake Fisheries Production Management Committee of Jiangsu Province, Fisheries Research Institute of Suzhou, Fisheries Research Institute of Hongze County, Exhibition Room of Nantong Municipal Bureau of Ocean and Fisheries, Exhibition Room of Ganyu County Bureau of Ocean and Fisheries, Fisheries Research Institute of Xinghua County, Fisheries Technical Extension Station of Baoying County, Wuzhong District Fisheries Technical Extension Station of Suzhou and Suzhou Municipal Aquaculture Co. , etc.

The whole volume is composed of two parts : general account and systematic account. The general account deals with geographical and climatic characteristics, waters and water resources, waters physical and chemical properties (water quality), food organism resources, fish resources and their utilization, fish culture, brief history of fish research and ichthyological fauna in Jiangsu. In systematic account, descriptions are given a total of 476 fish species, which are subject to 3 classes, 36 orders, 144 families and 327 genera . Of these, one species *Parabotia heterocheilus* Zhu et Chen, sp. nov. (Cobitidae) is new to science. A total of 168 Species (161 species belonging to seawater fish and 7 species to freshwater fish) are new record species in the Province, while *Ariosoma meeki* and *Trachypterus trachypterus* are new record species in China. A detailed account of morphological features of each species is described, with special emphasis on biological characteristics (habits, propagation and growth, food habit, migration and distribution), fisheries situation (fishing season, fishing grounds, fishing method and culture), economic significance, and conservation of fishery resources of commercially important species as far as possible. In individual cases, the dissent on the classification for some species has been discussed and revised.

A minute description of the initial sources of the names of genera and species, and the type species of genera is given. The errors of the initial sources when cited have not been corrected for a long time. Based on 《Catalog of Fishes》 by W N Eschmeyer (1998), a total of 185 sources of error were corrected and ensure the scientific value of this volume.

A few cultured fishes introduced to Jiangsu from abroad and at home are given in appendix and made a summary. With a view to facilitate the distinction, each species has a morphological figure with a few in color .

The classification system of Cyclostomata and Chondrichthyes in this monograph is based on the systematic status of Fauna Sinica : Cyclostomata and Chondrichthyes (Yuanting Chu and Qing-wen Meng, 2001), whereas the classification system of Osteichthys is according to that of Chinese fishes (edited by Qin-tai Chen and Bao-shan Zheng, 1987) . This monograph is up to now a more comprehensive and systematic research on fishes of

Jiangsu and is a component part of the study on Chinese ichthyological fauna, which has higher scientific value.

The edition and publication of 《Fishes of Jiangsu 》 has been the eager desire of the vast numbers of cadres, scientific research personnel and fisheries producers of various fishery circles in Jiangsu. Presided over by Jiangsu Provincial Bureau of Ocean and Fisheries, the compilation of this volume was mainly carried out by Freshwater Fisheries Research Institute of Jiangsu Province and Marine Fisheries Research Institute of Jiangsu Province. The experts of the relevant universities and scientific research units were invited to take part in the compilation. As the result of their collaboration, the compilation was successfully accomplished.

In the course of surveys and compilation, the research group wishes to express sincere gratitude to Jiangsu Provincial Bureau of Ocean and Fisheries, municipal (county, district) fisheries bureaux, fisheries administrative stations, fisheries technical extension stations and fisheries production management committees of various large and medium lakes, as well as the leaders at all levels, experts, fisheries cadres, fishermen and masses in the above-mentioned relevant universities, colleges and research institutes for their great support. The authors are also indebted to research fellows, professors and doctors LI Si-zhong, WANG Wen-bin, LE Pei-qi, LUO Yun-lin, SUN Guo-ying, ZHANG Kai-xiang, ZHANG Chun-guang, ZHANG E, LIU Huan-zhang, TANG Wen-qiao, ZHONG Jun-sheng, ZHANG Jie for lending data and putting forward precious suggestions, to professors Dr. R. Arai from Tokyo University and Dr. T. Nakabo of Kyoto University, to Dr. E-J Kang of korean ichthyology, for lending documents, to WU Fu-quan for assistance in collecting and determining specimens, to XU Ai-guo for presenting lots of specimens collected from Chenhu Lake, Suzhou, to HONG Ke-min for providing several valuable specimens collected from Xupu, Changshu. MU Yang took part in drawings and CHONG Dee- Hwa also took some color photos of fish.

Due to the restricted collecting stations, certain species are bound to be omitted and will await further supplement. We sincerely welcome all constructive criticisms for the defeats of the volume. They ought to be highly valued, especially if these suggestion can lead to a second edition.

NI Yong and WU Han-lin

October, 2006

编写人员分工

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鲳亚目	汤建华	伍汉霖
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附录 引进养殖鱼类	边文冀	陈校辉
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