



“十二五”国家重点图书
出版规划

湖南动物志

[鸟纲 雀形目]

邓学建 王 斌 钟福生 / 编著



CTS K 湖南科学技术出版社



国家出版基金项目

“十二五”国家重点图书出版规划

湖南动物志

[鸟纲雀形目]

邓学建 王 斌 钟福生 / 编著



湖南省财政厅、教育厅、科技厅、发改委、林业厅、农业厅、
卫生厅、湖南师范大学 资助

CTS



湖南科学技术出版社

FAUNA HUNAN

Passeriformes, Aves in Hunan, China

By

DENG Xuejian WANG Bin ZHONG Fusheng

(Supported by Hunan Provincial Finance Department,
Education Department, Science & Technology Department,
Development & Reform Commission, Forestry Department,
Agriculture Department, Health Department, and Hunan Normal University)

Hunan Science and Technology Press

Changsha, China

ISBN 978-7-5357-7371-5



9 787535 773715 >

图书在版编目 (C I P) 数据

湖南动物志. 鸟纲 雀形目 / 邓学建, 王斌, 钟福生编著.
— 长沙 : 湖南科学技术出版社, 2012. 12
ISBN 978-7-5357-7371-5
I. ①湖… II. ①邓… ②王… ③钟… III. ①动物志
— 湖南省②雀形目—动物志—湖南省 IV. ①Q958.526.4②Q959.7
中国版本图书馆 CIP 数据核字 (2012) 第 213017 号

湖南动物志 [鸟纲 雀形目]

编 著: 邓学建 王 斌 钟福生

责任编辑: 刘堤地 李 丹 欧阳建文

整体设计: 殷 健

出版发行: 湖南科学技术出版社

社 址: 长沙市湘雅路 276 号

<http://www.hnstp.com>

邮购联系: 本社直销科 0731-84375808

印 刷: 长沙超峰印刷有限公司

(印装质量问题请直接与本厂联系)

厂 址: 宁乡县金洲新区泉洲北路 100 号

邮 编: 410600

出版日期: 2013 年 8 月第 1 版第 1 次

开 本: 787mm×1092mm 1/16

印 张: 29

插 页: 4

字 数: 706000

书 号: ISBN 978-7-5357-7371-5

定 价: 220.00 元

(版权所有·翻印必究)

《湖南动物志》编撰委员会

主任：尹长民

副主任：沈猷慧 彭贤锦

委员：（以姓氏笔画为序）

邓学建 成源达 刘多

杨道德 陈安国 胡自强

EDITORIAL COMMITTEE OF FAUNA HUNAN

Chairman: Yin Changmin

Vice Chairman: Shen Youhui Peng Xianjin

Members: (Names are in surname strokes order)

Deng Xuejian Cheng Yuanda Liu Duo

Yang Daode Chen Anguo Hu Ziqiang

内容简介

湖南省位于长江中游以南，南岭山地之北，处于云贵高原向江南丘陵以及南岭山地向江汉平原过渡的地区，三面环山，一面临湖，地形复杂，鸟类资源较丰富。本书利用采集于湖南 14 个地市、自治州的标本和自 1900 年以来有关湖南鸟类研究的资料，对湖南省雀形目鸟类进行了系统整理和研究，对分布于湖南省的雀形目的 33 科 88 属 232 种和亚种鸟进行了系统的阐述，其中包括科的特征、检索表、物种名、别名、同物异名、鉴别特征、形态描述、测量数据、生态习性、分布情况和经济意义，每种都附有彩色图片，有 156 种附有彩色照片。另外，本书还介绍了湖南鸟类的研究历史和地理分布，分析了湖南省雀形目鸟类的群落结构、区系特点和珍稀程度。

本书可供从事鸟类、野生动物、林业、环境、自然保护和动物区系等科研工作人员以及有关大专院校师生参考，也可供野生动物爱好者和观鸟者参考。

本卷作者简介

邓学建 (Deng xue-jian) 男, 汉族, 1953 年出生, 湖南涟源人, 湖南师范大学生物科学学院动物学系教授、博士生导师; 中华人民共和国濒危物种科学委员会协审专家; 中国人民解放军空军机场鸟害防治技术专家组成员; 世界自然基金会长江湿地专家; 湖南省环保社团联合会顾问; 湖南省动物学会常务理事; 湖南省野生动物保护协会常务理事; 湖南省生态学会常务理事; 湖南省自然保护区评审委员会委员; 湖南师范大学旅游研究所兼职研究员; 世界自然基金会湖南师范大学环境教育中心一级培训师; 湖南省司法厅野生动物司法鉴定人。

自 1978 年开始从事脊椎动物学的教学和科研工作。曾开设过脊椎动物学、脊椎动物分类学、鸟类学、动物分类方法与原理、脊椎动物野外研究方法、中国鸟禽文化、环境教育和创新学等课程。先后完成 60 余项科研项目。主持完成了湖南省首次湿地资源调查和湖南陆生野生动物资源调查。已完成世界自然基金会 (WWF) 的长江湿地恢复示范项目并在联合国全球环境基金中国湿地项目 (GEF) 中对洞庭湖湿地动物资源作了深入研究。目前承担着湖南省脊椎动物普查和《湖南动物志》的编写工作。

编写过 7 种教材, 出版了 2 本专著, 参加编写发行了 16 部书籍, 发表论文 120 余篇, 发现并报道脊椎动物新物种 2 个, 报道湖南动物新纪录 120 多种。



Introduction

Deng Xue-jian, born in 1953, male, from Lianyuan of Hunan Province, is a professor and supervisor of doctoral students in the Zoology Department of the College of Life Science, Hunan Normal University. He is an assistant reviewing expert of the Endangered Species Scientific Commission, P. R. C., a member of the expert panel on the prevention and control of airports bird hazard of the People's Liberation Army Air Force, an expert on Yangtze River wetlands of the World Wildlife Fund (WWF), a consultant of the Hunan Associated Society of Environmental Protection, a standing member of council in Hunan Zoological Society, a standing member of council in Hunan Wildlife Conservation Society, a standing member of council in Hunan Ecological Society, a member of the Evaluation Committee of Natural Reserves and Ecological Function Reserves of Hunan Province, a member of the Evaluation Committee of Natural Reserves of Forested Wetlands and Terrestrial Wildlife of Hunan Province, a part-time researcher of Tourism Research Institute of Hunan Normal University, a first-degree trainer of Hunan Normal University Environmental Education Center of World Wildlife Fund, an judicial wildlife appraiser of the Judicial Department of Hunan Province.

Engaged in the teaching and scientific research of vertebrate zoology since 1978, Deng Xue-jian has successively offered courses of vertebrate zoology, vertebrate taxonomy, methodology and principle of animal taxonomy, field research methodology of vertebrate, Chinese bird culture, environmental education and innovation, etc.

The author has accomplished in succession over 60 scientific research projects. He also has presided over the first survey of Hunan wetland resources and terrestrial wildlife. In completing the exemplary project of Yangtze River wetlands restoration of the World Wildlife Fund (WWF) and the China wetlands project of the Global Environment Facility (GEF), he conducted an in-depth and systematic research on the animal resources in Dongting Lake wetlands. He is now undertaking the general investigation of vertebrates in Hunan Province and the compiling of Hunan Fauna.

So far, He has compiled 7 textbooks, published 2 monographs and more than 120 papers. He also has taken part in the compiling and publishing of 15 books, discovered and reported 2 new species. Over 120 new records of animals in Hunan Province were made by him.

总 序

湖南省位于长江中游,属亚热带季风湿润气候。年平均气温为 $15.8^{\circ}\text{C}\sim 18.7^{\circ}\text{C}$,湘南高于湘北,湘东高于湘西,相差约 2°C 左右。无霜期长达 $260\sim 310$ 天。雨量充沛,各地年平均降水量在 $1000\sim 1800\text{mm}$ 。地貌东、西、南三面环山,中部和北部为地势低平的洞庭湖盆地,是江汉平原的一部分,全境呈马蹄形。境内水系完整,湘、资、沅、澧四水及其支流呈树枝形和扇形汇入洞庭湖,流入长江。植被基本属于亚热带常绿阔叶林区域,海拔较高处则为落叶常绿混交林区域,湘南局部高山上则有华南—南岭区系的特点,高山针叶林混生于阔叶林中。

概而言之,湖南全境气候温和,山地、丘陵、平原、湿地、河流、湖泊交相嵌合,水系完整,植被成分复杂,有利于生物的生存和繁衍,孕育了丰富的物种,诱集到无数南飞的候鸟,为我们保护和合理利用资源提供了条件。

为适应生产的发展,资源合理地可持续利用以及环境科学的要求,湖南省动物学界热切希望编写一部地方动物志。动物志不仅服务于生产和社会发展的需要,而且可作为当前和今后教学、科研的重要参考书籍。

1992年成立了湖南省动物志编撰委员会,具体工作由湖南省动物学会承办,得到了中共湖南省委、省政府、省直相关厅(局)和有关学会的支持。协商选举产生了第一届编撰委员会:

主 任: 尹长民 (湖南师范大学,教授)

副 主 任: 沈猷慧 (湖南师范大学,教授)
何鸿恩 (原湖南医科大学,教授)

委 员: 以姓氏笔画为序

成源达 (湖南省畜牧研究所,研究员)

刘 多 (原湖南医科大学,教授)

陈国安 (原中国科学院长沙农业现代化研究所,研究员)

计划编撰5卷:

人体及动物寄生蠕虫

蜘蛛目

两栖爬行纲

鸟纲

哺乳纲

由于人事变迁及工作需要,2004年协商选举产生了第二届编撰委员会:

主 任: 尹长民 (湖南师范大学,教授)

副 主 任: 沈猷慧 (湖南师范大学,教授)

彭贤锦（湖南师范大学，教授）

委员：以姓氏笔画为序

邓学建（湖南师范大学，教授）

成源达（湖南畜牧研究所，研究员）

刘 多（原湖南医科大学，教授）

杨道德（中南林业科技大学，教授）

陈国安（原中国科学院长沙农业现代化研究所，研究员）

胡自强（湖南师范大学，教授）

计划增加《贝类》卷。

经各卷编者 16 年的努力，研究成果从 2008 年起将陆续付梓问世，令人振奋，鼓舞。我们能在省委和省政府的关怀下，在各方面支持下，为湖南省做一件有益的工作，以报答三湘四水人民的哺育之恩，无不感到宽慰。在此，我们还要对已故前辈顾昌栋、周宇垣、梁启燊、刘素嫫等和同仁王义铤、王家福表示敬意。他们参加了早期的湖南动物的调查研究，积累了不少标本。

特别要感谢省委、省政府及相关职能部门对这项研究工作的高度重视，原省委书记熊清泉、杨正午、张春贤、原省长周伯华等省领导先后多次询问工作进展情况，了解并解决工作中的困难，指示职能部门给予专项经费支持。省财政厅、省教育厅、省科技厅、省发展与改革委员会、省林业厅、省卫生厅先后给予了经费支持。

还要感谢国家自然科学基金委副主任朱作言院士，在来湖南视察后给予的经费支持。

《湖南动物志》编撰委员会



General Preface

Hunan Province is located in the middle reaches of Yangtze River in the subtropical monsoon climate. The annual average temperature is $15.8^{\circ}\text{C} \sim 18.7^{\circ}\text{C}$. Temperature in the southern Hunan is higher than the north, and that in eastern Hunan is higher than the west with a difference of about 2°C . The frost-free period lasts for 260~310 days. Rainfall in Hunan is abundant, of which the average annual data is 1000~1800mm. It is surrounded by mountains in the east, west and south. The domain of Hunan has a shape of horseshoe. Its central and northern part is flat Dongting Lake Basin which is a part of the Jiangnan Plain. Hydrographic net in Hunan is complete with Rivers of Xiang, Zi, Yuan and Li, as well as their tributaries, joining in Dongting Lake and floating into Yangtze River in the shape of tree branches and fan. Vegetation in Hunan belongs to the region of subtropical evergreen forest. Montane mixed evergreen and deciduous broadleaved forests can be seen in regions with higher elevation. High mountains in parts of southern Hunan have the characteristics of South China-Nanling region; Alpine coniferous forests mix with broad-leaved forest.

To sum up, the whole territory of Hunan has a mild climate and is interlaced with mountains, hills, plains, wetlands, rivers and lakes. The Hydrographic net in Hunan is complete and the composition of vegetation is complex, which is conducive to the survival and reproduction of lives. Therefore, Hunan breeds a wealth of species and induces countless migratory birds flying to the south, which provides conditions for us to protect and reasonably exploit resources.

In order to meet the need of economic development, reasonable exploitation of resources and the demands of environmental science, Hunan scholars on zoology have been fervently looking forward a local fauna. It will not only serve the needs of production and social development, but also serve as important reference books for the teaching and scientific research now and thereafter.

The Compilation Committee of Hunan Fauna was established in 1992, the specific work of which is undertaken by Hunan Zoological Society. It is supported by the provincial party committee, provincial government, related provincial departments and related societies. The first committee elected is as follows:

Chairman: Yin Changmin (Professor of Hunan Normal University)

Vice Chairmen: Shen Youhui (Professor of Hunan Normal University)

He Hongen (Professor of Hunan Normal University)

Members in the order of surname strokes:

Cheng Yuanda (Researcher of Hunan Institute of Animal Science)

Liu Duo (Professor of the Former Hunan Medical University)

Chen Guoan (Researcher of the Research Institute of agriculture modernization of Changsha, Chinese Academy of Science)

5 volumes are to be compiled:

Human and animal parasitic worms

Araneae

Amphibians Reptilia

Aves

Mammalia

Due to the personnel changes and the need of works, the second Compilation Committee was elected in 2004:

Chairman: Yin Changmin (Professor of Hunan Normal University)

Vice Chairmen: Shen Youhui (Professor of Hunan Normal University)

Peng Xianjin (Professor of Hunan Normal University)

Members in the order of surname strokes:

Deng Xuejian (Professor of Hunan Normal University)

Cheng Yuanda (Researcher of Hunan Institute of Animal Science)

Liu Duo (Professor of the Former Hunan Medical University)

Yang Daode (Professor of Central South University of Forestry and Technology)

Chen Guoan (Researcher of the Research Institute of Agriculture modernization of Changsha, Chinese Academy of Science)

Hu Ziqiang (Professor of Hunan Normal University)

The volume of Mollusca is programmed to be added.

Through 16 years' endeavor of all the compilers, the research results will come out in succession from 2008, which is rather inspiring and encouraging. Under the care of provincial party committee and provincial government, with the support from various units, we all feel consoled to do a job for Hunan Province to pay back the grace of feeding of our fellow countrymen. Here we have to pay homage to the deceased seniors Gu Changdong, Zhou Yuyuan, Liang Qishen, Liu Suli, etc and our colleague Wang Yixian and Wang Jiafu. They took part in the early study of animals in Hunan and collected a lot of specimens.

We are especially grateful to the great attention of provincial party member, provincial government and related functional departments. Provincial leaders such as former secretary of provincial party committee Xiong Qingquan, Yang Zhengwu and Zhang Chunxian, former governor of province Zhou Bohua enquired for times about the progress of our work. They learned of and solved the difficulties in our work by directing the related functional departments to provide special financial support. Department of Finance, Department of Education, Department of Science and Technology, Planning Commission, Forestry Department, Department of Public health offered financial support in succession.

Our thanks also go to Academician Zhu Zuoyan of Natural Science Foundation of China, who offered financial support after his inspection in Hunan.

Compilation Committee of Hunan Fauna





序

欣闻《湖南动物志鸟纲雀形目》即将出版，特向湖南师范大学的邓学建教授表示衷心祝贺！

鸟类是生物多样性的的重要组成部分，是国家宝贵的自然资源。我国是一个鸟类资源丰富的国家，现有鸟类 1371 种，约占世界鸟类总数的 14%。如此众多的鸟类与我国丰富多样的地理环境和生态类型密不可分。湖南是我国中部地区一个重要省份，动物地理区划上属于东洋界华中区，地跨东部丘陵平原亚区和西部山地高原亚区，整个地势呈“U”字形，西面借武陵山脉与贵州、重庆相邻，东部有罗霄山脉与江西相隔，越过南面的南岭是广东和广西，而北面是一望无际的洞庭湖沉积平原，出洞庭湖或渡过长江则是湖北。由于独特的地理位置，形成了湖南特殊的环境特色，也为鸟类生存提供了较多的生存空间。


在我国早期的鸟类研究中，有关湖南鸟类的研究资料相对较少，具有权威性的工作是 1955~1957 年中国科学院组织的湖南鸟类资源调查，1960 年郑作新院士报道了在湖南 22 个县分布的 124 种雀形目鸟类。1965 年梁启燊先生又报道了湖南省分布的 14 种雀形目鸟类。自此以后，湖南省鸟类特别是雀形目鸟类分类研究有很长一段时间出现了空白，致使在全国的鸟类分布图中，湖南省的资料相对缺乏。

邓学建教授系中国鸟类学会会员、我国著名鸟类研究专家，在湖南鸟类区系分类和生态学研究方面发表了一系列论文。在 30 多年的研究工作中，他先后考察了全省 120 多个县市，特别是对全省的自然保护区进行了系统调查，获得了大量第一手资料。由他主编的《湖南动物志鸟纲雀形目》的出版，是湖南省鸟类分类及区系分布研究的重大成果，对丰富我国鸟类区系研究具有重要意义。

《湖南动物志鸟纲雀形目》描述了湖南境内的 232 种及亚种雀形目鸟类，包括 80 多种湖南省雀形目鸟类的新分布纪录。该书以湖南境内采集的标本为依据，收集了自 1900 年以来有关湖南鸟类研究的资料，分析和阐述了各阶段的研究成果，在此基础上作者介绍了湖南省雀形目鸟类在 14 个地市的分布情况，分析了湖南雀形目鸟类的群落结构和区系特点，评价了珍稀濒危状况，提出了保护措施。该书从亚种的分化、英文名名称、常见的别名、历史沿革、鉴别特征、形态描述、生活习性、测量数据、省内的地理分布和经济意义等方面作了介绍，每一物种均插入了彩色图片，有的还配了生态照片。此外，作者根据目前发现的物种还编制了湖南雀形目鸟类的检索表。该书是对湖南雀形目鸟类的系统阐述，充分体现了科学性和纪实性，为完成湖南全省的鸟类志书编写工作打下了良好的基础。

《湖南动物志鸟纲雀形目》是迄今为止，最全面系统反映湖南雀形目鸟类本底资源的文献。该书以实物为依据，资料翔实、内容丰富、图文并茂，具有很强的科学性和纪实性，是具有国内先进水平的学术专著。该书的出版对促进湖南省乃至全国的鸟类研究和保护工作将产生积极作用。

中国鸟类学会秘书长



2011 年 11 月 22 日



Preface

I am glad to hear that *Aves Passeriformes Hunan Fauna* to be published. I would like to express my hearty congratulation to the chief editor Prof. Deng Xuejian at Hunan Normal University.

Birds are an important component of biodiversity. They are valuable natural resources. China is a country with relatively large distribution of birds. So far over 1371 kinds of birds in China, 14% of the world's birds are distributed in China. Such a large range of birds is indispensable to the various geographical environment and ecological types in China. Hunan is an important province of central China which zoogeographically belongs to the South China Region, Oriental Realm. Ranging across the sub-region of hills and plains in the east and that of mountains and plateaus in the west, the terrain of Hunan has a "U" form. It borders Guizhou and Chongqing to the west in Wuling Mountains; in the east it is adjacent to Jiangxi Province in Luoxiao Mountains; Guangdong and Guangxi lie to the south across the Nanling Mountains, while to the north is the vast alluvial plain of Dongting Lake with Hubei Province to the northern bank of Yangtze River. The special geographical location of Hunan results in its special environmental features, which provides more living space for birds.

In the early studies about birds in China, research data concerning birds in Hunan are rare. The most authoritative research is the investigation of avifauna resources organized by Chinese Academy of Science in 1955~1957. In 1960, Zhen Zuoxin reported 124 species of Passeriformes in the 22 counties of Hunan. In 1965, Liang Qishen reported 14 species of Passeriformes. Thereafter, there has been a blank of a long period about the sort research of birds, especially Passeriformes in Hunan Province.

Prof. Deng Xuejian is a member of China Ornithological Society, a famous avian specialist in China. A series of papers are published on ecological study, taxonomy and fauna of birds. In his research work of over 30 years, he traveled to more than 120 counties and carried out systematical investigations of the natural reserves all over the province. The publication of Passeriformes *Aves Hunan Fauna* compiled by him is a great achievement for the research of classification and distribution of avifauna in Hunan Province, and is also a significant improvement for the research of ornithofauna in China.

Passeriformes of *Aves Hunan Fauna* describes 232 species and subspecies of Passeriformes detected in Hunan, including 80 new records of Passeriformes in Hunan. Based on the specimens collected in Hunan Province, the author collected materials concerning bird studies of Hunan Province since 1900, analyzed and described the research achievements of various stages. Based on these he introduced the Passeriformes' distribution in the 14 municipalities and prefecture of Hunan Province, analyzed their community structures and faunal characteristics, evaluated their endangered status and proposed protective measures. The author also compiled the identification keys of Passeriformes in Hunan according to the discovered species. Passeriformes of Avifauna of Hunan systematically describes the Passeriformes in Hunan Province. It is fairly scientific and documentary and lays a sound foundation for the compiling of Hunan avifauna annals.

Aves Passeriformes Hunan Fauna is by far the most systematic document reflecting the background resources of Passeriformes in Hunan Province. Based on physical objects, this book is highly scientific and docu-

mentary with detailed materials and is excellent in both description and accompanying pictures and is of advanced level in China. It has a positive effect on the research of birds and protection of animals and even the whole country.

Zhang Zhengwang

Secretary General of China Ornithological Society

November 22, 2011