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胡佳耀 李利珍 © 编



# Catalogue of the Insect Type

中国昆虫模式标本名录 (第3卷)

Specimens Deposited in China



## Vol. 3

中国林业出版社

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The book serial Catalogue of Insect Type Specimens Deposited in China has been launched in 2001. The first and second volumes were published in 2007 and 2009, respectively and have attracted globally great attention from both entomologists and general readers. From such a wide readership, many good ideas and suggestions were conveyed to us to improve this serial. As a benchmark source of documentation in entomology, the new volumes were highly anticipated. Through the efforts of our writing team, the third volume is finally completed, and the work on the series will be continued in the future.

New species published outside of China from 1950 to 2010 and the type specimens deposited in Chinese collections form the major part of this volume. Furthermore, the species published in Chinese journals and books from 1950 to 2010 that were not included in the first two volumes are covered here.

The first volume of this book serial included a total of four classes, 32 orders, 386 families, 3147 genera, and 10106 species. The second volume included a total of four classes, 29 orders, 357 families, 2681 genera, and 8385 species. This volume includes a total of four classes, 25 orders, 231 families, 957 genera, and 2763 species. In presenting the taxonomy, the same style as in the previous two volumes was followed. The four Class system of Hexopoda was considered. In recent years, the rapid development of systematics and phylogeny made apparent that the accepted classification system was unstable. Especially there were many inconsistencies at higher taxonomic levels, such as at the level of family and order. However, this only underscored the need to correct and revise the definitions of and memberships within taxonomic families in accordance with the latest research results. In this case, there will be a chance some species in the book were arranged in a family that is different from the one published in the original article. In the same style as the first two volumes, subfamily level was not considered and high-ranking taxon were arranged according to the system order. The genera and species were arranged in alphabetical order.

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ship granted to BAI Ming by the Alexander von Humboldt Foundation. In the preparation process, we received full support from Prof. YANG Xingke from the Institute of Zoology, Chinese Academy of Sciences. We were also supported and encouraged by the leaders of the Institute of Zoology, Chinese Academy of Sciences. Prof. Zhang Zhibin, former director of the Biotechnology Bureau of Chinese Academy of Life Science, and former director the Institute of Zoology, Chinese Academy of Sciences, also provided much guidance to us. Prof. ZHANG Dexing and Prof. WEI Fuwen, two deputy directors of the Institute of Zoology, Chinese Academy of Sciences, also gave us as well full support and assistance. Prof. QIAO Gexia, deputy director of the Institute of Zoology, Chinese Academy of Sciences, provided many valuable comments during the preparation of the volume and in the publication process. The directors and colleagues from the Key Laboratory of Zoological Systematics and Evolution, Institute of Zoology, Chinese Academy of Sciences, also supported us with many helpful comments. Mrs. LIU Jialing, the editor of this book, showed great dedication in the editing and publishing process. Dr. LIU Wan Gang, Dr. SONG Keqing, Mrs. HU Xiaoyan, Mr. MalqinHinggan and other students participated in parts of the data entry work. Prof. YIN Wenying, Prof. QIAO Gexia, Prof. ZHANG Runzhi, Prof. YANG Ding, Prof. CAI Wanzhi, Prof. ZHANG Yalin, Prof. BU Wenjun, Prof. CHEN Bin, Prof. TIAN Mingyi, Prof. WU Chunsheng, Dr. CHEN Fuqiang, Dr. REN Li, Dr. BU Yun, Prof. WEI Cong, Dr. REN Yingdang, Prof. HUANG Guohua, Dr. GE Siqin, Dr. WAN Xia, Dr. LIN Meiying, Dr. WANG Rongrong, Dr. YANG Yuxia, Mr. WANG Shuyong, Dr. SHI Aimin, Dr. HAN Hongxiang and other provided some original articles. Great thanks are due to you all of them.

It is unfortunate that some references, which have turned out as inaccessible, are still missing in this volume. Like in each undertaking of such a scope errors are unavoidable. Comments and criticisms will be greatly appreciated. They will help to improve follow – up contributions in this series.

Dr. BAI Ming, Mrs. CUI Junzhi, Dr. HU Jiayao, Prof. LI Lizhen  
Beijing, 2014. V

《中国昆虫模式标本名录》前两卷分别于2007年和2009年出版以来,得到了专家学者及读者们的广泛关注,大家提出了不少好的意见和建议,希望能够继续编写下去,使其成为有关我国昆虫新种及模式标本记录的连续出版物,形成我国昆虫分类学重要的资料。为了不辜负大家的厚望,我们编写小组经过努力,最终完成第三卷,以后如果有条件许可,我们会努力坚持下去。

本书主要收集的是1950~2010年间发表于国外的、保存在国内的新种模式标本,以及截至2010年、前两卷未收录的专业杂志和地方志中发表的产于我国的新种模式标本的补遗。

本丛书第一卷收录了4纲32目386科3147属10106种,第二卷收录了4纲29目357科2681属8385种。本名录共包括了4纲25目231科957属2763种。本名录共包括了4纲25目231科957属2763种。在编排上基本与前两卷相同,按照泛六足类4纲系统。近些年,分类学发展较快,特别是高级阶元的系统发育研究成果不断,对科级阶元的冲击较大,厘订工作任务很重。我们还是坚持对目下各科均按照最新研究成果予以纠正和调整,所以,仍然会出现一些种类发表时所在的种与本书中不一致的问题。体例上同前两卷,科下不设亚科,按照系统顺序排列。科下各属及属内各种均按照字母顺序排列。本卷大量的来自综合考察报告及系列出版物,一本书中包括诸多类群及作者,我们对每一位作者在每一本书中所写类群或独立的章节均在参考文献中一一列出,以便读者查阅。本卷以发表在国内外的新种为主体,故本卷为英文版。

本项工作得到了国家科技基础条件平台工作重点项目(Key Project of Science-technology Basic Condition Platform from The Ministry of Science and Technology of the People's Republic of China)(批准号:2005DKA21402)的支持,同时也受到国家重点基础研究发展计划(973计划)(2011CB302102)、国家自然科学基金委(31010103913)、中国科学院院地合作项目(科技支新)和德国洪堡基金会(the Alexander von Humboldt Foundation, Germany)等项目的资助。中国科学院动物研究所杨星科研究员审阅了全部文稿,并提出修改意见。在编写过程中,我们还得到了中国科学院动物研究所领导的鼓励和支持,获得

了原中国科学院生命科学与生物技术局局长、原中国科学院动物研究所所长张知彬研究员的直接关心和指导,张德兴、魏辅文两位副所长给予了全力支持和帮助。乔格侠副所长在编写和出版过程中均给予了具体的帮助并提出宝贵的意见。在编写中得到了动物进化与系统学研究中心的领导、同仁,动物博物馆的同仁及鞘翅组全体同仁的关心、支持和帮助;中国林业出版社刘家玲女士在本书编辑出版中付出了艰辛的劳动。刘万岗、宋克清、胡晓燕、兴安等同学参与部分数据录入工作,尹文英、乔格侠、张润志、杨定、彩万志、张雅林、卜文俊、陈斌、田明义、武春生、陈付强、任立、卜云、魏琮、任应党、黄国华、葛斯琴、万霞、林美英、王荣荣、杨玉霞、王书永、石爱民、韩红香等老师和同行提供了部分文献原文。正是大家的支持、帮助给予我们更大的决心和信心,才使本书得以面世。在此,我们真诚地向大家表示衷心的感谢!

本名录收集的资料还有较大缺陷,部分国外文章经多方努力,难以获得原文,而且国内部分杂志、综合考察报告、地方志及专著也未能收全,因此,不能不说是遗憾。

由于编者水平所限,名录中各种错误在所难免,我们衷心盼望大家赐教,以便我们在后续工作中不断改进和完善。

编 者

2014年夏于北京

List of Abbreviation, Chinese and English Names of Insect Collections in This Book  
模式标本保存地中英文名称及缩写

| Abbreviation<br>缩写 | Chinese Name<br>中文名称         | English Names<br>英文名称                                                                                                                                        |
|--------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFCD               | 香港渔农自然护理署                    | Agriculture, Fisheries and Conservation Department, Hong Kong Government, Hong Kong, China                                                                   |
| ANIC               | 澳大利亚联邦科学与工业研究组织昆虫研究所         | Australian National Insect Collection, CSIRO, Canberra, Australia                                                                                            |
| ASCDC              | 贵州安顺疾病预防控制中心(原贵州省安顺地区卫生防疫站)  | Anshun Center for Disease Control and Prevention in Guizhou Province [formerly Health and Anti-epdemic Station of Anshun], Anshun, Guizhou, China            |
| BAAF               | 北京市农林科学院植保环保所                | Institute of Plant and Environment Protection, Beijing Academy of Agricultural and Forestry Sciences, Beijing, China                                         |
| BCIK               | 韩国生物多样性与保护研究所                | Biodiversity and Conservation Institute, Simaeri, S. Korea                                                                                                   |
| BIME               | 军事医学科学院微生物流行病学研究所            | Medical Entomology Collection, Beijing Institute of Microbiology and Epidemiology, The Academy of Military Medical Sciences, Beijing, China                  |
| BJFU               | 北京林业大学(原北京林学院)               | Beijing Forestry University [formerly Beijing Forestry College], Beijing, China                                                                              |
| BJMNH              | 北京自然博物馆                      | Beijing Museum of Natural History, Beijing, China                                                                                                            |
| BLKU               | 日本九州大学生物系统学实验室               | Biosystematics Laboratory, Kyushu University, Fukuoka Japan                                                                                                  |
| BMSYU              | 中山大学(原岭南大学)生物博物馆             | Biological Museum, Sun Yat-sen University [formerly Lingnan University], Guangzhou, Guangdong, China                                                         |
| BORN               | 马来西亚沙巴大学热带生物保护研究所            | Institute for Tropical Biology and Conservation, University Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia                                                   |
| BPBM               | 夏威夷州立博物馆                     | Bernice Pauahi Bishop Museum, Honolulu, Hawaii, USA                                                                                                          |
| CACMM              | 重庆中药研究院(原重庆市中药研究所)           | Chongqing Academy of Chinese Materia Media [formerly Chongqing Medicinal Herbs Institute], Chongqing, China                                                  |
| CAGZU              | 贵州大学农学院昆虫标本室(原贵州农学院)         | The College of Agriculture, Guizhou University [formerly Guizhou Agricultural College], Guiyang, Guizhou, China                                              |
| CAIQ               | 中国检验检疫科学研究院动植物检疫研究所          | Institute of Animal and Plant Quarantine, Chinese Academy of Inspection Quarantine, Beijing, China                                                           |
| CAS                | 美国加州科学院标本馆                   | California Academy of Sciences, San Francisco, California, USA                                                                                               |
| CAU                | 中国农业大学农学与生物技术学院(原北京农业大学昆虫学系) | College of Agriculture and Biotechnology, China Agricultural University [formerly Department of Entomology, Beijing Agricultural University], Beijing, China |
| CCFY               | Cheng F. Y. 个人收藏             | Private collection of Cheng F. Y.                                                                                                                            |
| CDCDC              | 成都市疾病预防控制中心(原成都卫生防疫站)        | Chengdu Center for Disease Control and Prevention in Sichuan Province [formerly Chengdu Station of Health and Epidemic Prevention], Chengdu, Sichuan, China  |
| CDFA               | 美国加州食品与农业局                   | California Department of Food and Agriculture, Sacramento, California, USA                                                                                   |
| CDITC              | 成都市白蚁防治研究所                   | Chengdu Institute of Termite Control, Chengdu, Sichuan, China                                                                                                |
| CHFh               | 德国 Hennemann F. H. 私人收藏      | Private collection of Hennemann F. H., Kaiserslautern, Germany                                                                                               |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称                    | English Names<br>英文名称                                                                                                                                                                                                                |
|--------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLHCU              | 河池学院化学与生物工程学院                           | Department of Chemistry and Life Science, Hechi University, Yizhou, Hechi, Guangxi, China                                                                                                                                            |
| CLPKU              | 北京大学生命科学学院                              | College of Life Science, Peking University, Beijing, China                                                                                                                                                                           |
| CLS XU             | 山西大学生命科学学院                              | College of Life Sciences, Shanxi University, Taiyuan, Shanxi, China                                                                                                                                                                  |
| CMNC               | 加拿大国家自然博物馆                              | Canadian Museum of Nature, Ottawa, Canada                                                                                                                                                                                            |
| CNC                | 加拿大国立昆虫博物馆                              | Canadian National Collection of Insects, Ottawa, Ontario, Canada                                                                                                                                                                     |
| CPPC               | Pingping Chen 私人收藏                      | Private Collection of Pingping Chen, Beijing, China                                                                                                                                                                                  |
| CRIFC              | 印度尼西亚粮食作物中央研究所                          | Central Research Institute for Food Crops, Bogor, Indonesia                                                                                                                                                                          |
| CSU                | 加利福尼亚州立大学                               | California State University, Sacramento, USA                                                                                                                                                                                         |
| CSUFT              | 中南林业科技大学(原中南林学院)昆虫标本馆                   | Insect Collection, Central South University of Forestry and Technology [formerly Central South Forestry College], Changsha [formerly located in Zhuzhou], Hunan, China                                                               |
| CUAC               | 美国克莱门森大学无脊椎动物标本馆                        | Arthropod Collection, Clemson University, Clemson, South Carolina, USA                                                                                                                                                               |
| CWNU               | 西华师范大学(原四川南充师范学院)                       | China West Normal University [formerly Sichuan Nanchong Normal College], Nanchong, Sichuan, China                                                                                                                                    |
| DBTC               | 台州学院                                    | Department of Biological Science, Taizhou College, Taizhou, Zhejiang, China                                                                                                                                                          |
| DBURT              | 意大利罗马第三大学生物系                            | M. A. Bologna collection, Department of Biology, University Roma Tre, Roma, Italy                                                                                                                                                    |
| EAKU               | 日本神户大学农学院昆虫实验室                          | Entomological Laboratory, Faculty of Agriculture, Kobe University, Kobe, Japan                                                                                                                                                       |
| EBHKU              | 香港大学生态与多样性系                             | Department of Ecology & Biodiversity, The University of Hong Kong, Hong Kong, China                                                                                                                                                  |
| EBVAS              | 缅甸科学与技术院生态与生物资源研究所                      | Institute of Ecology and Biological Resources, Vietnamese Academy of Science and Technology, Ha Noi, Vietnam                                                                                                                         |
| EDNC               | 美国北卡罗来纳州立大学农学系                          | Insect Collection, Department of Agriculture, North Carolina State University, Raleigh, North Carolina, USA                                                                                                                          |
| FAFU               | 福建农林大学植物保护学院(原福建农学院生防研究所、福建农业大学生物防治研究所) | College of Plant Protection, Fujian Agricultural Forestry University [formerly Institute of Biological Control, Fujian Agricultural College; Institute of Biological Control, Fujian Agricultural University], Fuzhou, Fujian, China |
| FAMU               | 佛罗里达农业与机械大学                             | Florida Agricultural & Mechanical University, Tallahassee, Florida, USA                                                                                                                                                              |
| FRCS               | 马来西亚林业研究中心                              | Forest Research Centre, Sandakan, Malaysia                                                                                                                                                                                           |
| GAAS               | 广西农业科学院                                 | Guangxi Agricultural Academy of Sciences, Nanning, Guangxi, China                                                                                                                                                                    |
| GDEI               | 广东省昆虫研究所                                | Guangdong Entomological Institute, Guangzhou, Guangdong, China                                                                                                                                                                       |
| GSFPM              | 国家林业局森林病虫害防治总站(原林业部森林病虫害防治总站)           | General Station of Forest Pest Management, State Administration of Forestry [formerly General Station of Forest Pest Management, Ministry of Forestry], Shenyang, Liaoning, China                                                    |
| GXNU               | 广西师范大学生命科学学院(原广西师范大学生物系)                | College of Life Science [formerly Department of Biology], Guangxi Normal University, Guilin, Guangxi, China                                                                                                                          |
| GYMU               | 贵阳医科大学(原贵阳医学院)                          | Guiyang Medical University [formerly Guiyang Medical College], Guiyang, Guizhou, China                                                                                                                                               |
| GZNU               | 贵州师范大学(原国立贵阳师范学院)                       | College of Geography and Biology, Guizhou Normal University [formerly National Guiyang Normal College], Guiyang, Guizhou, China                                                                                                      |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称                             | English Names<br>英文名称                                                                                                                                                                                       |
|--------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HBCDC              | 湖北省疾病预防控制中心卫生监测检验防护所(原湖北省医学科学院寄生虫病研究所)           | Institute of Health Monitoring, Testing and Protection, Hubei Center for Disease Control and Prevention [formerly Institute of Parasitic Diseases, Hubei Academy of Medical Science], Wuhan, Hubei, China   |
| HBUN               | 湖北民族学院医学院                                        | Medical School, Hubei University for Nationalities, Enshi, Hubei, China                                                                                                                                     |
| HNAAS              | 湖南省农业科学研究院                                       | Hunan Academy of Agricultural Sciences, Changsha, China                                                                                                                                                     |
| HNHM               | 匈牙利自然历史博物馆                                       | Hungarian Natural History Museum, Budapest, Hungary                                                                                                                                                         |
| HUM                | 日本北海道大学博物馆                                       | Hokkaido University Museum, Hokkaido University, Sapporo, Hokkaido, Japan                                                                                                                                   |
| HUST               | 河南科技大学                                           | Henan University of Science and Technology [formerly Luoyang Institute of Technology; formerly Luoyang Agricultural School], Luoyang, Henan, China                                                          |
| IAEAS              | 中国科学院沈阳应用生态研究所(原中国科学院林业土壤研究所)                    | Institute of Applied Ecology, Chinese Academy of Sciences [formerly Institute of Forestry and Soil Sciences, Chinese Academy of Sciences], Shenyang, Liaoning, China                                        |
| ICBAC              | 北京农学院昆虫标本馆                                       | Insect Collection, Beijing Agricultural College, Beijing, China                                                                                                                                             |
| ICSCU              | 苏州大学金螳螂建筑与城市环境学院昆虫标本馆                            | Insect Collection, Gold Mantis School of Architecture and Urban Environment, Soochow University, Suzhou, Jiangsu, China                                                                                     |
| IEBRV              | 越南生态与生物资源研究所                                     | Institute of Ecology and Biological Resources, Hanoi, Vietnam                                                                                                                                               |
| IECA               | 捷克科学院昆虫研究所                                       | Boukal collection, Institute of Entomology, Czech Academy of Science, Ceske Budejovice, Czech Republic                                                                                                      |
| IESNU              | 沈阳师范大学昆虫研究所(原沈阳师范学院昆虫研究所)                        | Institute of Entomology, Shenyang Normal University [Institute of Entomology, Shenyang Normal College], Shenyang, Liaoning, China                                                                           |
| IEUC               | 意大利圣心天主教大学昆虫研究所                                  | Istituto di Entomologia Agraria dell'Università Cattolica, Piacenza, Italy                                                                                                                                  |
| IEZJU              | 浙江大学农业与生物技术学院应用昆虫研究所寄生蜂标本室(原浙江农业大学生物防治研究室、浙江农学院) | Institute of Applied Entomology, Zhejiang University [formerly Institute of Biological Control, Zhejiang Agricultural University; formerly Zhejiang Agricultural College], Hangzhou, Zhejiang, China        |
| IMAU               | 内蒙古农业大学(原内蒙古农牧学院、内蒙古林学院)                         | Entomological Museum, Inner Mongolia Agricultural University [formerly Inner Mongolia College of Animal Husbandry; formerly Inner Mongolia College of Forestry], Hohhot, Inner Mongolia, China              |
| IMNU               | 内蒙古师范大学                                          | Inner Mongolia Normal University, Hohhot, Inner Mongolia, China                                                                                                                                             |
| INCA               |                                                  | Insects collection of Inca Science Ltd., Chongqing, China                                                                                                                                                   |
| IPPE               | 中国科学院上海生命科学研究院植物生理生态研究所(原中国科学院上海昆虫研究所)           | Institute of Plant Physiology & Ecology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences [formerly Shanghai Institute of Entomology, Chinese Academy of Sciences], Shanghai, China |
| IRSNB              | 比利时皇家自然科学研究所                                     | Institut Royal des Sciences Naturelles de Belgique, Bruxelles, Belgium                                                                                                                                      |
| IRTUA              | 东京农业大学                                           | Laboratory of Insect Resources, Faculty of Agriculture, Tokyo University of Agriculture, Atsugi, Japan                                                                                                      |
| ISZP               | 波兰科学院动物进化与系统学研究所                                 | Institute of Systematics and Evolution of Animals, Polish Academy of Sciences, Krakow, Poland                                                                                                               |
| IZAS               | 中国科学院动物研究所(原中国科学院昆虫研究所)                          | Institute of Zoology, Chinese Academy of Sciences [formerly Institute of Entomology, Chinese Academy of Sciences], Beijing, China                                                                           |
| IZSNU              | 陕西师范大学动物研究所                                      | Institute of Zoology, Shaanxi Normal University, Xi'an, Shaanxi, China                                                                                                                                      |



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| Abbreviation<br>缩写 | Chinese Name<br>中文名称              | English Names<br>英文名称                                                                                                                                             |
|--------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JSFPM              | 江西省森林病虫害防治站                       | Jiangxi Station of Forest Pest Management, Nanchang, Jiangxi, China                                                                                               |
| KEIKU              | 韩国高丽大学昆虫研究所                       | Korean Entomological Institute, Korea University, Seoul, Korea                                                                                                    |
| KFBG               | 香港嘉道理农场暨植物园                       | Kadoorie Farm and Botanic Garden, Hongkong, China                                                                                                                 |
| KMU                | 昆明学院                              | Kunming University, Kunming, Yunnan, China                                                                                                                        |
| KPSPM              | 马来西亚沙巴国家公园董事会基纳巴卢国家公园             | Kinabalu Park, Sabah Parks, Sabah, Malaysia                                                                                                                       |
| KUIC               | 日本鹿儿岛大学                           | Faculty of Science, Kagoshima University, Kagoshima, Japan                                                                                                        |
| KZAS               | 中国科学院昆明动物研究所                      | Kunming Institute of Zoology. Chinese Academy of Science, Kunming, Yunnan, China                                                                                  |
| LACM               | 美国洛杉矶自然历史博物馆                      | Natural History Museum of Los Angeles Country, California, USA                                                                                                    |
| LBSYU              | 沈阳大学生命科学与工程学院                     | College of Life Science and Bioengineering, Shenyang University, Shenyang, Liaoning, China                                                                        |
| LEEEU              | 日本爱媛大学                            | Laboratory of Environmental Entomology, Faculty of Agriculture, Ehime University, Matsuyama, Japan                                                                |
| LESUT              | 陕西理工学院生物科学与工程学院<br>(原陕西汉中师范学院生物系) | College of Life Sciences and Engineering, Shaanxi University of Technology [formerly Department of Biology, Hanzhong Teacher's College], Hanzhong, Shaanxi, China |
| LEW                | 荷兰瓦赫宁恩大学昆虫系                       | Department of Entomology, Wageningen University, Wageningen, Netherlands                                                                                          |
| LGQNU              | 青海师范大学生命与地理科学学院                   | College of Life and Geographical Sciences, Qinghai Normal University, Xining, Qinghai, China                                                                      |
| LMCDC              | 兰州军区疾病预防控制中心                      | Specimen Collection, Center for Disease Prevention and Control, Lanzhou Military Region, Lanzhou, Gansu, China                                                    |
| LSDU               | 大理学院(原云南大理师范高等专科学校生物系)            | College of Life Science, Dali University [formerly Department of Biology, Dali Teacher's College], Dali, Yunnan, China                                            |
| LSNU               | 南京大学生命科学学院(原南京大学生物系)              | College of Life Sciences [formerly Department of Biology], Nanjing University, Nanjing, Jiangsu, China                                                            |
| LSNWU              | 西北大学生物系                           | College of Life Sciences, Northwest University, Xi'an, Shaanxi, China                                                                                             |
| LSXJ               | 新疆大学生命科学学院                        | College of Life Sciences, Xinjiang University, Urumqi, Xinjiang, China                                                                                            |
| MCSN               | 意大利热那亚自然历史博物馆                     | Museo Civico di Storia Naturale "Giacomo Doria", Genova, Italy                                                                                                    |
| MCZ                | 美国哈佛大学比较动物博物馆                     | Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA                                                                                  |
| MHAU               | 华中农业大学自然博物馆                       | Natural History Museum, Huazhong Agricultural University, Wuhan, Hubei, China                                                                                     |
| MHBU               | 河北大学博物馆                           | The Museum of Hebei University, Hebei University, Baoding, Hebei, China                                                                                           |
| MHNG               | 瑞士日内瓦自然历史博物馆                      | Muséum d'Histoire Naturelle de Genève, Genève, Switzerland                                                                                                        |
| MHNL               | 法国里昂自然历史博物馆                       | Muséum d'Histoire Naturelle, Lyon, France                                                                                                                         |
| MNHN               | 法国国家自然历史博物馆                       | Muséum National d'Histoire Naturelle [in English National Natural History Museum], Paris, France                                                                  |
| MNHUK              | 美国堪萨斯大学自然历史博物馆                    | Museum of Natural History, University of Kansas, Lawrence, Kansas, USA                                                                                            |
| MPUJN              | 济南大学                              | Department of Medical and Parasitology, Faculty of Medicine, University of Jinan, Guangzhou, China                                                                |
| MSPU               | 俄罗斯莫斯科师范大学                        | Moscow State Pedagogical University, Moscow, Russia                                                                                                               |
| MSUC               | 美国密歇根州立大学昆虫系                      | A. J. Cook Arthropod Research Collection, Department of Entomology, Michigan State University, East Lansing, Michigan, USA                                        |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称               | English Names<br>英文名称                                                                                                                                                                      |
|--------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MTD                | 德国德累斯顿动物博物馆                        | Museum für Tierkunde, Dresden, Germany                                                                                                                                                     |
| MZM                | 捷克摩拉维亚博物馆                          | Moravské zemské museum [ Moravia Museum in English ], Brno, Czech Republic                                                                                                                 |
| MZPW               | 波兰科学院动物研究所博物馆                      | Museum of the Institute of Zoology, Polish Academy of Science, Warszawa [ = War-saw ], Poland                                                                                              |
| MZUF               | 意大利佛罗伦萨大学动物博物馆                     | Museo Zoologico“ La Specola”, Università di Firenze, Firenze ( Florence ), Italy                                                                                                           |
| NCCDC              | 南昌市疾病预防控制中心(原南昌市卫生防疫站)             | Nanchang Center for Disease Control and Prevention in Jiangxi Province [ formerly Health and Anti-Epidemic Station of Nanchang of Jiangxi ], Nanchang, Jiangxi, China                      |
| NCHU               | 国立中兴大学                             | National Chung Hsing University, Taichung, Taiwan, China                                                                                                                                   |
| NEFU               | 东北林业大学(原东北林学院)                     | Northeast Forestry University [ formerly Northeast Forestry College ], Harbin, Hei-longjiang, China                                                                                        |
| NENU               | 东北师范大学生命科学学院标本中心                   | Northeast Normal University, Changchun, Jilin, China                                                                                                                                       |
| NEPHU              | 湖北大学天敌昆虫标本馆                        | Collection of Natural Enemies of Pests, Hubei University, Wuhan, Hubei, China                                                                                                              |
| NFRC               | 加拿大北方林业科学研究中心                      | Northern Forestry Centre, Edmonton, Alberta, Canada                                                                                                                                        |
| NHMB               | 瑞士巴塞尔自然历史博物馆                       | Naturhistorisches Museum, Basel, Switzerland                                                                                                                                               |
| NHML               | 英国自然历史博物馆                          | The Natural History Museum [ formerly British Museum ( Natural History ) ], London, United Kingdom                                                                                         |
| NHMW               | 奥地利维也纳自然历史博物馆                      | Naturehistorisches Museum in Wien, Wien, Austria                                                                                                                                           |
| NHRS               | 瑞典国家自然历史博物馆                        | Naturehistoriska Riksmuseet, Stockholm, Sweden                                                                                                                                             |
| NIAES              | 日本农业与环境科学研究所                       | National Institute of Agro-Environmental Sciences, Tsukuba, Japan                                                                                                                          |
| NJAU               | 南京农业大学(原南京农学院)                     | Nanjing Agricultural University [ formerly Nanjing Agricultural College ], Nanjing, Jiangsu, China                                                                                         |
| NJNU               | 南京师范大学                             | Nanjing Normal University, Nanjing, Jiangsu, China                                                                                                                                         |
| NKUM               | 南开大学生命科学学院                         | Nankai University Museum, College of Life Sciences [ formerly Department of Biolo-gy ], Nankai University, Tianjin, China                                                                  |
| NMNS               | 国立自然科学博物馆                          | National Museum of Natural Science, Taichung, Taiwan, China                                                                                                                                |
| NSMT               | 日本自然科学博物馆                          | National Science Museum ( Natural History ), Tokyo, Japan,                                                                                                                                 |
| NSYU               | 国立中山大学                             | National Sun Yat-sen University, Kaohsiung, Taiwan, China                                                                                                                                  |
| NTNU               | 国立台湾师范大学生物学系                       | Department of Biology, National Taiwan Normal University, Taipei, Taiwan, China                                                                                                            |
| NTU                | 国立台湾大学昆虫学系                         | Department of Entomology, National Taiwan University, Taipei, Taiwan, China                                                                                                                |
| NWAFU              | 西北农林科技大学(原西北农业大学、西北林学院)            | Northwest A. & F. University [ formerly Northwest Agricultural College; formerly Northwest Forestry College ], Yangling, Shaanxi, China                                                    |
| NWIPB              | 中国科学院西北高原生物研究所                     | Northwest Institute of Plateau Biology, Chinese Academy of Sciences, Xining, Qinghai, China                                                                                                |
| NWU                | 日本名古屋女子大学                          | Nagoya Women’s University, Nagoya, Japan                                                                                                                                                   |
| NXCDC              | 宁夏回族自治区疾病预防控制中心(原宁夏地方病防治站、宁夏卫生防疫站) | Ningxia Center for Disease Control and Prevention [ formerly Endemic Disease Control Station of Ningxia; formerly Health and Anti-Epidemic Station of Ningxia ], Yin-chuan, Ningxia, China |
| PCAN               | 瑞典 A. N. Nilsson 私人收藏              | Private Collection of A. N. Nilsson, Umea, Sweden                                                                                                                                          |
| PCAP               | 德国 Andreas Pütz 私人收藏               | Private Collection of Andreas Pütz, Eisenhüttenstadt, Germany                                                                                                                              |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称         | English Names<br>英文名称                                                                                             |
| PCAS               | 加拿大 A. Smetana 私人收藏          | Private Collection of A. Smetana, Ottawa, Canada                                                                  |
| PCAW               | 波兰 Andrzej Warchałowski 私人收藏 | Private Collection of Andrzej Warchałowski, Wrocław, Poland                                                       |
| PCCC               | 中国 Changchin Chen 私人收藏       | Private Collection of Mr. Changchin Chen, Tianjin, China                                                          |
| PCCO               | 美国 Charles W. O'Brien 私人收藏   | Private Collection of Charles W. O'Brien, Tallahassee, Florida, United States                                     |
| PCDM               | 法国 Morvan 私人收藏               | Private Collection of D. Morvan, Carrentoire, France                                                              |
| PCFH               | 日本 F. Hayashi 私人收藏           | Private Collection of F. Hayashi, Tokyo, Japan                                                                    |
| PCFP               | 美国 Frank W. Pelsue 私人收藏      | Private Collection of Frank W. Pelsue, Corona, California, United States                                          |
| PCGW               | 奥地利 G. Wewalka 私人收藏          | Private Collection of G. Wewalka, Wien, Austria                                                                   |
| PCHK               | 德国 Horst Kippenberg 私人收藏     | Private Collection of Horst Kippenberg, Herzogenaurach, Germany                                                   |
| PCHM               | 奥地利 Hans Malicky 私人收藏        | Private Collection of Hans Malicky, Sonnengasse 13, A-3293, Lunz am See, Austria                                  |
| PCJK               | 斯洛伐克 Jan Kodada 私人收藏         | Private Collection of Jan Kodada, Bratislava, Slovakia                                                            |
| PCJS               | 捷克 Jaroslav Stastny 私人收藏     | Private Collection of Jaroslav Stastny, Liberec, Czech Republic                                                   |
| PCLH               | 德国 L. Hendrich 私人收藏          | Private Collection of L. Hendrich, Berlin, Germany                                                                |
| PCLK               | 美国 L. R. Kirkendall 私人收藏     | Private Collection of L. R. Kirkendall, Ann Arbor, Michigan, USA                                                  |
| PCLY               | 中国刘烨私人收藏                     | Private Collection of Liu Ye, Beijing, China                                                                      |
| PCM                | 日本 Matsui 私人收藏               | Private Collection of Matsui, Arai, Japan                                                                         |
| PCMB               | 法国 Michel Bergeal 私人收藏       | Private Collection of Michel Bergeal, Versailles, France                                                          |
| PCMD               | 意大利 Mauro Daccordi 私人收藏      | Private Collection of Mauro Daccordi, Verona, Italy                                                               |
| PCMF               | 意大利 M. Faccoli 私人收藏          | Private Collection of M. Faccoli, Veneto, Italy                                                                   |
| PCMK               | 捷克 Milos Knizek 私人收藏         | Private Collection of Milos Knizek, Prague, Czech Republic                                                        |
| PCMM               | 俄罗斯 Mikael Mandelshtam 私人收藏  | Private Collection of Mikael Mandelshtam, Moscow, Russia                                                          |
| PCMS               | 日本 M. Sato 私人收藏              | Private Collection of M. Sato, Nagoya, Japan                                                                      |
| PCMSB              | 德国 M. Schülke 私人收藏           | Private Collection of M. Schülke, Berlin, Germany                                                                 |
| PCN                | 日本 Nakane 私人收藏               | Private Collection of Nakane, Chiba-shi, Japan                                                                    |
| PCPC               | 中国 Pingping Chen 私人收藏        | Private Collection of Pingping Chen, Beijing, China                                                               |
| PCPK               | 捷克 P. Kresl 私人收藏             | Private Collection of P. Kresl, Janovice nad Uhlavou, Czech Republic                                              |
| PCPM               | 意大利 Paolo Mazzoldi 私人收藏      | Private Collection Paolo Mazzoldi, Brescia, Italy                                                                 |
| PCRB               | 泰国 Roger Beaver 私人收藏         | Private Collection of Dr. Roger Beaver, Chiang Mai, Thailand                                                      |
| PCSA               | 德国 A. Schintlmeister 私人收藏    | Private Collection of A. Schintlmeister, Dresden, Germany                                                         |
| PCTD               | 法国 Deuve 私人收藏                | Private Collection of T. Deuve, Paris, France                                                                     |
| PCVP               | 德国 V. Puthz 私人收藏             | Private Collection of V. Puthz, Schlitz*, Germany                                                                 |
| PCWC               | 中国台湾周文一私人收藏                  | Private Collection of Dr. Wen'i Chou, Taiwan, China                                                               |
| PCWL               | 中国台湾 Wen-hsin Lin 私人收藏       | Private Collection of Mr. Wen-hsin Lin, Taiwan, China                                                             |
| PCYC               | 中国台湾 Yiting Chung 私人收藏       | Private Collection of Mr. Yiting Chung, Taiwan, China                                                             |
| PERC               | 美国普度大学农学院普度昆虫标本馆             | Purdue Entomological Research Collection, College of Agriculture, Purdue University, West Lafayette, Indiana, USA |
| QFPMQ              | 甘肃省天水市秦州区森林病虫害防治检疫站          | Qinzhou Station of Forest Pest Management& Quarantine, Qinzhou District, Tianshui, Gansu, China                   |
| RIFP               | 中国林业科学研究院森林保护研究所             | Research Institute of Forest Protection, Chinese Academy of Forestry, Beijing, China                              |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称                              | English Names<br>英文名称                                                                                                                                                                                                   |
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| RIRI               | 中国林科院资源昆虫研究所                                      | Research Institute of Resources Insects, Chinese Academy of Forestry, Kunming, Yunnan, China                                                                                                                            |
| RLEIQ              | 云南瑞丽出入境检验检疫局                                      | Ruili Entry-Exit Inspection and Quarantine Bureau, Ruili, Yunnan, China                                                                                                                                                 |
| RMNH               | 荷兰自然历史博物馆                                         | Rijksmuseum van Natuurlijke Historie [ in English National Museum of Natural History ], Leiden, Netherlands                                                                                                             |
| RMNUS              | 新加坡国立大学莱佛士生物多样性博物馆动物标本馆                           | Zoological Reference Collection, Raffles Museum of Biodiversity Research, National University of Singapore, Singapore                                                                                                   |
| SAAS               | 四川省农业科学院                                          | Sichuan Academy of Agricultural Science, Chengdu, Sichuan, China                                                                                                                                                        |
| SAM                | 南澳大利亚州博物馆                                         | South Australian Museum, Adelaide, Australia                                                                                                                                                                            |
| SAU                | 山西农业大学昆虫标本室(原山西农学院)                               | The Research Center of Scale Insects, Shanxi Agricultural University [ formerly Shanxi Agricultural College ], Taigu County, Jinzhong, Shanxi, China                                                                    |
| SCAU               | 华南农业大学(原华南农学院)                                    | South China Agricultural University [ formerly South China Agricultural College ], Guangzhou, Guangdong, China                                                                                                          |
| SDAU               | 山东农业大学                                            | Shandong Agricultural University, Tai'an, Shandong, China                                                                                                                                                               |
| SEMC               | 美国堪萨斯大学雪地昆虫博物馆                                    | Snow Entomological Museum, University of Kansas, Lawrence, USA                                                                                                                                                          |
| SGVTC              | 黔东南民族职业技术学院(原黔东南州农业学校)                            | Southwest of Guizhou Vocational and Technical College for Nationalities [ formerly Southwest of Guizhou Agricultural College ], Xingyi, Guizhou, China                                                                  |
| SHBG               | 上海植物园                                             | Shanghai Botanical Garden, Shanghai, China                                                                                                                                                                              |
| SHEIQ              | 上海出入境检验检疫局                                        | Shanghai Entry-Exit Inspection and Quarantine Bureau, Shanghai, China                                                                                                                                                   |
| SHNU               | 上海师范大学生命与环境科学学院生物系昆虫标本室                           | Life and Environmental Sciences College, Shanghai Normal University, Shanghai, China                                                                                                                                    |
| SMMU               | 第二军医大学病原生物学教研室                                    | Department of Pathogen Biology, Second Military Medical University, Shanghai, China                                                                                                                                     |
| SNMC               | 斯洛伐克国家博物馆                                         | Slovenské Národné Muzeum [ in English Slovak National Museum ], Bratislava, Slovak Republic                                                                                                                             |
| SNUM               | 韩国首尔大学无脊椎动物标本本保藏中心                                | Invertebrate Resources Bank of Korea, Seoul National University, Korea                                                                                                                                                  |
| STMU               | 日本埼玉大学                                            | Saitama University, Urawa, Japan                                                                                                                                                                                        |
| SWFU               | 西南林业大学(原西南林学院)                                    | Southwest Forestry University [ formerly Southwest Forestry College ], Kunming, Yunnan, China                                                                                                                           |
| SWU                | 西南大学[主要由西南师范大学(原川东师范学堂)和西南农业大学(原西南农学院)于2005年合并形成] | Southwest University [ merged by Southwestern Normal University (formerly East Sichuan Normal School) and Southwestern Agricultural University (formerly Southwestern Agricultural College) in 2005 ], Chongqing, China |
| SYCDC              | 沈阳市疾病预防控制中心(原沈阳市卫生防疫站)                            | Shenyang Center for Disease Control and Prevention in Liaoning Province [ formerly Health and Anti-Epidemic Station of Shenyang of Liaoning ], Shenyang, Liaoning, China                                                |
| SZMN               | 俄罗斯科学院西伯利亚分院动物分类与生态学研究西伯利亚动物博物馆                   | Siberian Zoological Museum, Institute of Animal Systematics and Ecology, SB RAS, Novosibirsk, Russia                                                                                                                    |
| TAIU               | 美国德克萨斯州农业与机械大学(原德克萨斯州艺术与工业大学)                     | Insect Collection, Texas A. & M. University-Kingsville [ formerly Texas A. & I. University ], Kingsville, Texas, USA                                                                                                    |

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| Abbreviation<br>缩写 | Chinese Name<br>中文名称             | English Names<br>英文名称                                                                                                                                              |
|--------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TARI               | 台湾农业试验所                          | Taiwan Agricultural Research Institute, Taichung, Taiwan, China                                                                                                    |
| TNHM               | 天津自然历史博物馆                        | Tianjin Natural History Museum, Tianjin, China                                                                                                                     |
| UASK               | 乌克兰科学院动物研究所                      | Institute of Zoology, National Academy of Sciences of Ukraine, Kiev, Ukraine                                                                                       |
| UCDC               | 美国加州大学戴维斯分校                      | University of California, Davis, California, USA                                                                                                                   |
| UOPJ               | 日本大阪府立大学昆虫实验室                    | Entomological Laboratory, Osaka Prefecture University, Sakai, Osaka, Japan                                                                                         |
| USDA               | 美国农业部                            | United States Department of Agriculture, Beltsville, Maryland, USA                                                                                                 |
| USNM               | 美国国家自然博物馆(暨美国国立自然博物馆, 美国斯密森氏博物馆) | National Museum of Natural History [formerly United States National Museum], Washington D. C., USA                                                                 |
| WVUC               | 美国西弗吉尼亚州立大学无脊椎动物标本馆              | West Virginia University Arthropod Collection, Morgantown, West Virginia, USA                                                                                      |
| XBCDC              | 辽宁新宾疾病预防控制中心(原辽宁新宾卫生防疫站)         | Xinbin Center for Disease Control and Prevention in Liaoning Province [formerly Health and Anti-epidemic Station of Xinbin County], Xinbin, Liaoning, China        |
| XJCDC              | 新疆疾病预防控制中心(原新疆维吾尔自治区流行病学研究所)     | Xinjiang Center for Disease Control and Prevention [formerly Institute of Epidemiology, Xinjiang Uighur Autonomous Region], Urumqi, Xinjiang, China                |
| XJEIQ              | 新疆出入境检验检疫局                       | Xinjiang Entry-Exit Inspection and Quarantine Bureau, Xinjiang, China                                                                                              |
| XTBG               | 中国科学院西双版纳热带植物园                   | Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Kunming, Yunnan, China                                                                       |
| YCM                | 日本横须贺市立博物馆                       | Yokosuka City Museum, Yokosuka, Japan                                                                                                                              |
| YIPD               | 云南省寄生虫病防治研究所                     | Yunnan Institute of Parasitic Disease, Pu'er [Simao], Yunnan, China                                                                                                |
| YNAU               | 云南农业大学                           | Insect Collections, Yunnan Agricultural University, Kunming, Yunnan, China                                                                                         |
| YZU                | 扬州大学园艺与植物保护学院(原江苏农学院植物保护系)       | School of Horticulture and Plant Protection, Yangzhou University [formerly Department of Plant Protection, Jiangsu Agricultural College], Yangzhou, Jiangsu, China |
| ZFMK               | 德国亚历山大动物博物馆                      | Zoologische Forschungsinstitut und Museum "Alexander Koenig", Bonn, Germany                                                                                        |
| ZHEIQ              | 广东珠海出入境检验检疫局                     | Zhuhai Entry-Exit Inspection and Quarantine Bureau, Zhuhai, Guangdong, China                                                                                       |
| ZIN                | 俄罗斯科学院动物研究所                      | Russian Academy of Sciences, Zoological Institute, St. Petersburg, Russia                                                                                          |
| ZJAFU              | 浙江农林大学(原浙江林学院)                   | Zhejiang A. & F. University [formerly Zhejiang Forestry College], Lin'an, Zhejiang, China                                                                          |
| ZJNU               | 浙江师范大学(原浙江师范学院、杭州师范学院)           | Zhejiang Normal University [formerly Zhejiang Normal College; formerly Hangzhou Normal College], Jinhua, Zhejiang, China                                           |
| ZMHB               | 德国洪堡大学动物博物馆                      | Museum für Naturkunde der Humboldt-Universität, Berlin, Germany                                                                                                    |
| ZMKU               | 乌克兰国立基辅塔拉斯谢甫琴科大学(简称基辅大学)动物博物馆    | Zoological Museum, Kiev National Taras Shevchenko University, Kiev, Ukraine                                                                                        |
| ZMNH               | 浙江自然博物馆                          | Zhejiang Museum of Natural History, Hangzhou, Zhejiang, China                                                                                                      |
| ZMUB               | 挪威卑尔根大学动物博物馆                     | Museum of Zoology, University of Bergen, Bergen, Norway                                                                                                            |
| ZSM                | 德国慕尼黑动物博物馆                       | Zoologische Staatssammlung, Munich, Germany                                                                                                                        |
| ZZCU               | 漳州城市职业学院                         | Zhangzhou City University, Zhangzhou, Fujian, China                                                                                                                |



Preface

List of Abbreviation, Chinese and English Names of Insect Collections in This Book

**PROTURA 原尾纲** ..... (1)

**ACERENTOMATA** ..... (1)

    Family Hesperentomidae ..... (1)

    Family Protentomidae ..... (1)

    Family Berberentomidae ..... (1)

    Family Acerentomidae ..... (1)

    Family Berberentulidae ..... (2)

    Family Nipponentomidae ..... (2)

**EOSENTOMATA** ..... (2)

    Family Eosentomidae ..... (2)

**COLLEMBOLA 弹尾纲** ..... (3)

**COLLEMBOLA** ..... (3)

    Family Neanuridae ..... (3)

    Family Hypogastruridae ..... (3)

    Family Tomoceridae ..... (3)

    Family Isotomidae ..... (4)

    Family Entomobryidae ..... (4)

    Family Onychiuridae ..... (5)

    Family Dicyrtomidae ..... (5)

**INSECTA 昆虫纲** ..... (6)

**MICROCORYPHIA** ..... (6)

    Family Machilidae ..... (6)

**EPHEMEROPTERA** ..... (6)

    Family Ephemerellidae ..... (6)

    Family Neoephemeridae ..... (7)

    Family Prosopistomatidae ..... (7)

    Family Baetidae ..... (7)

    Family Heptageniida ..... (7)

    Family Leptophlebiidae ..... (7)

**ODONATA** ..... (8)

    Family Aeshnidae ..... (8)

    Family Gomphidae ..... (8)

    Family Chlorolestidae ..... (8)



|                               |      |
|-------------------------------|------|
| Family Coenagrionidae .....   | (8)  |
| <b>PLECOPTERA</b> .....       | (8)  |
| Family Leuctridae .....       | (8)  |
| Family Nemouridae .....       | (9)  |
| <b>BLATTARIA</b> .....        | (12) |
| Family Blattellidae .....     | (12) |
| <b>ISOPTERA</b> .....         | (13) |
| Family Kalotermitidae .....   | (13) |
| <b>MANTODEA</b> .....         | (13) |
| Family Thespidae .....        | (13) |
| <b>MECOPTERA</b> .....        | (13) |
| Family Panorpidae .....       | (13) |
| Family Bittacidae .....       | (14) |
| <b>ORTHOPTERA</b> .....       | (14) |
| Family Stenopelmatidae .....  | (14) |
| Family Tettigoniidae .....    | (15) |
| Family Rhaphidophoridae ..... | (17) |
| Family Gryllidae .....        | (17) |
| Family Gryllotalpidae .....   | (17) |
| Family Tetrigidae .....       | (17) |
| Family Pyrgomorphidae .....   | (24) |
| Family Acrididae .....        | (24) |
| Family Dericorythidae .....   | (27) |
| Family Pamphagidae .....      | (27) |
| <b>PHASMATODEA</b> .....      | (27) |
| Family Phasmatidae .....      | (27) |
| Family Diapheromeridae .....  | (28) |
| Family Heteronemiidae .....   | (28) |
| <b>GRYLLOBLATTODEA</b> .....  | (28) |
| Family Grylloblattidae .....  | (28) |
| <b>THYSANOPTERA</b> .....     | (28) |
| Family Thripidae .....        | (28) |
| Family Phlaeothripidae .....  | (29) |
| <b>HEMIPTERA</b> .....        | (29) |
| Family Ricaniidae .....       | (29) |
| Family Flatidae .....         | (29) |
| Family Delphacidae .....      | (30) |
| Family Cicadellidae .....     | (30) |
| Family Aphrophoridae .....    | (39) |
| Family Machaerotidae .....    | (39) |