

高黎贡山蛾类图鉴

The Moths of Gaoligong Mountains

昆虫纲：鳞翅目

杨平之 等 编著



科学出版社

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本项目由云南高黎贡山国家级自然保护区
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内 容 简 介

本书记述了高黎贡山蛾类 25 科 536 属 1005 种, 以图为主, 给出了每个种的放大或者等大(翅展小于 40 mm) 的成虫图, 对雌雄异形昆虫也分别给出了对应的成虫图。同时, 描述了所有种的外部形态特征和分布。

本书为研究高黎贡山脉(横断山最西部一条主要的山脉)生物多样性提供了科学依据, 可供科研院所、大专院校师生及农业、林业等一线工作人员参考。

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THE MOTHS OF GAOLIGONG MOUNTAINS

Insecta: Lepidoptera

Pingzhi Yang *et al.*

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《高黎贡山蛾类图鉴》
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前 言

高黎贡山位于云南西部，喜马拉雅山东南部延伸地段。这条在近代地质史上强烈隆起的断层山脉，北接青藏高原，南衔中南半岛，东邻横断山系的怒山山脉，西毗邻印缅山地，纵跨云南的西部，从北至南，绵延 600 余公里。整个山脉北高南低，北面最高为贡山独龙族自治县的嘎哇嘎普峰，海拔 5128 m，最低为云南盈江县中缅界河交汇处的拉咱，海拔仅 210 m，南北相对高差 4918 m。由于巨大的垂直高差，强烈的断层结构，受孟加拉湾季风、印度次大陆西风季风带的影响，高黎贡山有着复杂的气候环境，形成了极其复杂多样的生态环境。在生命科学领域中，高黎贡山一直是古热带植物区系与泛北极植物区系成分交汇过渡的地带。融合了青藏高原、中南半岛及本地属种的动植物，使该地区动植物种属复杂化、特有化程度居于世界大陆区系之最。中国科学院生物多样性委员会编撰的《中国生物多样性》一书将高黎贡山列为“具有国际意义的陆地生物多样性关键地区”和“重要的模式标本产地”。

高黎贡山有着特殊的地理位置，类型繁多的垂直气候带，复杂的高山峡谷地貌，使其成为沟通青藏高原与中南半岛动植物区系衍化的走廊与桥梁。东邻云贵高原，西毗邻印缅山地，从南向北，从东到西呈逐渐过渡与转化的特点。从现代科学意义来说，最先引起外国学者的注意。1868-1875 年，英国人安德森（John Anderson）率领探险队从缅甸八莫进入高黎贡山地区采集鸟类、两栖爬行类标本，奥地利人韩马吉（H.Handel-Mazzetti）（1915 年）、英国人金德华（Gengdon Ward）（1922-1924 年）、美国人洛克（Rock）（1920-1927 年）等先后到高黎贡山考察和采集标本。时间最长、收获最大的是英国爱丁堡植物园的乔治·福里斯特（George Forrest），自 1904-1932 年（病逝在腾冲）的 28 年中，先后 7 次组织大规模考察和采集，共采集到动植物标本十万余号。在腾冲的界头大塘发现和命名了大树杜鹃。为爱丁堡植物园引种了 1000 多种活植物，其中有 250 多种杜鹃花，为这座位于苏格兰首都的皇家植物园成为世界杜鹃花研究中心起到了很重要的作用。

我国学者对高黎贡山的考察研究始于 20 世纪 30 年代。30 年代初，北平静生生物调查所（现称中国科学院植物研究所）先后派蔡希陶、王启元、俞德浚先生到高黎贡山进行植物考察和采集标本。40 年代，北平研究院植物研究所（现称中国科学院植物研究所）刘慎谔先生，庐山植物园秦仁昌、冯国楣先生等先后到腾冲、贡山等地进行植物考察和采集标本。50 年代后，随着新中国的成立，国家逐步加大了对高黎贡山的科考研究，半个多世纪以来，先后由中国科学院动物研究所、中国科学院植物研究所、中国科学院昆明动物研究所、中国科学院昆明植物研究所、云南大学、武汉大学、西南林业大学、云南省林业厅、云南林业调查规划院等组织了多次对高黎贡山的科学考察，采集了数以十万计的动植物标本，出版了《高黎贡山植物》、《高黎贡山国家级自然保护区》、《怒江自然保护区》等专著，并在不同学科的刊物上发表了大量关于高黎贡山物种的论文（包括新种、新记录）。

高黎贡山的植物资源是很丰富的，野生动物资源之丰富也实属少有。据不完全统计，高黎贡山地区有脊椎动物 699 种，其中有兽类 154 种，鸟类 419 种，爬行类动物 56 种，两栖类 21 种，

鱼类 49 种。遗憾的是,作为无脊椎动物中节肢动物门的昆虫纲至今仅有一些零星的、分散的报道,国内外不少学者和广大科技工作者都急盼着能有更多横断山脉、高黎贡山有关昆虫方面的系统报道,即使是见到名录也是一件让人高兴的事。事实是近 65 年来,前往高黎贡山进行科学考察及采集标本的昆虫学方面的科研单位或学者不少,也发表过一些文章或记述,但系统的、较为有序的报道极少。鉴于这种状况,从 2011 年开始,我与高黎贡山国家级自然保护区保山管理局合作,以我的专业特点——长期从事于云南蛾类昆虫的研究为依托,开展了高黎贡山蛾类昆虫的考察和研究。分别对高黎贡山北部贡山县的独龙江、丙中洛;中部福贡县的匹河、泸水县的片马;南部保山隆阳区的赧亢、百花岭;龙陵县的小黑山省级自然保护区;腾冲县的大塘、界头、大蒿坪、林家铺;德宏州傣族景颇族自治州(德宏州)盈江县的铜壁关;陇川县的户撒阿昌族乡(户撒);瑞丽市的勐秀、潞西县的南天门等进行了较为全面的考察和标本采集。2011-2014 年初共采集到蛾类昆虫标本 2 万余号,分属于 25 科 536 属 1005 种。

云南素有动物王国、植物王国之称。昆虫系动物界种类和数量最多、分布最广、区系最为复杂的类群。鳞翅目昆虫是昆虫纲中仅次于鞘翅目昆虫的第二大目,分为蝶类和蛾类两大类群,无论种类或数量,蛾类昆虫是蝶类昆虫的 10 倍以上,是与人类生产、生活最为密切的一大类群。蛾类昆虫大部分是害虫,危害粮食、棉花、蔬菜、油料、药材等农作物,也危害果树、林木和储藏什物,是森林的一大害虫。另外,像家蚕、柞蚕、橧蚕、蓖麻蚕、冬虫夏草(珍贵药材)等又给人类带来极大的经济利益。

蛾类种类繁多,一般不易识别,本图鉴编入高黎贡山常见的蛾类昆虫 25 科 52 亚科 12 族 536 属 13 亚属 1005 种,是目前在农业、林业生产第一线的工作人员,以及科研、教学中识别和鉴定蛾类昆虫的一本工具书。同时填补了云南目前还没有系统的蛾类昆虫书籍的空白。

《高黎贡山蛾类图鉴》一书在编辑过程中得到天津南开大学昆虫学研究所李后魂教授、中国农业大学昆虫系彩万志教授、杨定教授的大力支持,在此表示衷心感谢。

高黎贡山蛾类的考察、研究工作是在高黎贡山国家级自然保护区保山管理局全方位的支持下完成的。同时得到了保山管理局隆阳分局、怒江傈僳族自治州(怒江州)自然保护局、贡山县自然保护局、福贡县自然保护局、腾冲县自然保护局、盈江县铜壁关自然保护区管理所、陇川县自然保护局、瑞丽市自然保护局、龙陵县小黑山自然保护区管理所的大力支持,在此表示衷心感谢。

本图鉴记述了高黎贡山常见的大中型和部分小型蛾类,还有大部分小型蛾类有待于今后进一步补充完善。《高黎贡山蛾类图鉴》的标本,从采集、鉴定、制作、拍摄是由杨平之、资丽华完成的。编辑中文字的输入、整理是由保山市隆阳区自然保护局李静、杨桂雪和中国科学院昆明动物研究所陈泉燕参与完成,在此表示衷心感谢。

本图鉴难免存在不足之处,欢迎读者批评指导。

杨平之

2014 年 6 月 11 日

Gaoligong Mountains is located in the west of Yunnan, the southeast extension area of Himalaya Mountains. This fault-block mountain which is fiercely uplift in modern geological history borders on Qinghai-Tibet Plateau on the east connects with the Indo-China Peninsula in the south, against the Nushan Mountains of the eastern Hengduan Mountains, neighbors the Indo-Burmese Mountains in the west, spreads across the western part of Yunnan. From the north to the south, it stretches more than 600 kilometers. The whole mountain chain's topography is high in the north and low in the south. The highest part in the north is the Peak Gawagapu of Gongshan Dulong ethnic autonomous county, is 5128 meters above the sea level. The lowest area Laiza, situated in the confluence of the Sino-Burmese border in the Yingjiang county of Yunnan, is only 210 meters above the sea level. The tremendous vertical geological difference, intense fault structure and the influence of the bay of Bengal and the Indian subcontinent west wind monsoon belt, had affected the complex climate and the extremely varied ecological environment of Gaoligong Mountains. In addition, Gaoligong Mountain is always located in the transitional zone of the Ancient Tropical flora and Holarctic flora in the field of life science. By the combination of Qinghai-Tibet Plateau, IndoChina, and the local species, this area is endowed with varied flora and fauna resources ranking first in world mainland. The book *Biodiversity in China* compiled by the biodiversity committee of Chinese Academy of Sciences (CAS) has marked Gaoligong Mountains as the key area of diversiform terrestrial biota with international significance and the important type specimen origin.

With the specific geographical location, different types of vertical climatic zones, and complex landscapes of alpinism and valleys, Gaoligong Mountains has become the bridge and passageway linking up Qinghai-Tibet Plateau and IndoChina flora and fauna derivation. Moreover, it adjoins the Yunnan-Guizhou Plateau in the east and borders on India-Burmese Mountain land in the west, which appears transition and transformation little by little from the south to the north, east to the west. In modern scientific sense, the foreign researchers focused on Gaoligong firstly. In 1868-1875, the British John Anderson led the team from Burma Bhamo into the Gaoligong Mountains area collecting specimens of birds, amphibians, reptiles. Whereafter, the Austrain H. Handel-Mazzetti (1915), the British Gengdon Ward (1922-1924), the American Locke (1920-1927) and others investigated and collected specimens successively. Among them, George Forrest, who was from Edinburgh Botanic Gardens of the Great Britain, had stayed longest and gained greatest. He had organized 7 times survey and collections during his last 28 years spent in Tengchong from 1904 till 1932. In these investigations, he had picked up more than one hundred thousand types of animals and plants specimens. The Giant Azalea was found and named at the place Datang, Tengchong's boundary. Over 1000 kinds of living plants were imported among which had 250 varieties of azaleas. That had make Royal Botanic Gardens lied in the capital of Scotland become the center of world azaleas research.

Since the 20th century, domestic scholars had begun to study Gaoligong Mountains. Early in the 1930's, Peking Institute of Biology had assigned Xitao Cai, Qiyuan Wang, Dejun Yu to do researches and collections in Gaoligong Mountains one after another. In the 1940's, scholars such as Shen'e Liu from Peking Institute of Botany, Renchang Qin from Lushan Botanic Garden, Guomei Feng et al. arrived at Tengchong and Gongshan to make investigations and collections. After the 1950's, with the foundation of new China, the government gradually increased the scientific research of Gaoligong Mountains. More than half of a century, more and more institutes or academies carried out scientific investigations and collected hundreds of thousands specimens in Gaoligong Mountains such as Institute of Zoology (CAS), Institute of Botany, Kunming Institute of Zoology (CAS), Yunnan University, Wuhan University, Southwest Forestry College, Forestry Department of Yunnan Province, Yunnan Forestry Planning Institute. With their effort, the monographs: *Plants of Gaoligong Mountains*,

Gaoligong National Nature Reserve and *Nujiang Nature Reserve* had been published. What's more, lots of theses about Gaoligong Mountains species (including new species and new recorded) had been published in different periodicals.

Gaoligong Mountains is endowed with abundant flora resources and wild fauna resources. According to incomplete statistics, there are 699 kinds of vertebrates including 154 kinds of mammals, 419 birds, 56 reptiles, 21 amphibians, 49 fish. Regrettably, insects of Arthropoda in invertebrates has been studied merely so far. Many scholars at home and abroad and scientific researchers are eager to getting more reports about insects of Hengduan Mountains and Gaoligong Mountains, even though the catalog. The fact is, few systematic and well-organized reports were made in spite of many scholars or institutes in entomology investigating Gaoligong Mountains for nearly 65 years. In consideration of the fact, since 2011, I have worked with the Gaoligong Mountains National Nature Reserve of Baoshan Authority to carry out the investigations and researches about Gaoligong Mountains moths which I have been studying many years. I have fully investigated and collected specimens in Dulong River, Bingzhongluo, lied in the Gongshan County north of Gaoligong Mountains, Pi River middle of Fugong County, Pianma of Lushui County, Nankang, Baihua Hill located in Longyang District of Baoshan, Xiaoheishan Provincial Reserve of Longling County, Datang, Jietou, Dahaoping and Linjiapu of Tengchong County, Tongbiguan of Yingjiang County Dehong Prefecture, Husa of Longchuan County, Mengxiu of Ruili County, Nantianmen of Luxi County. I have collected more than 20 thousand specimens of moths over three years, including 1005 species, 536 genera and 25 families.

Yunnan has long been known as Kingdom of Plants and Animals. Insects were the largest, the most widespread and the most complicated in the Kingdom Animalia. Lepidoptera was the second largest order, can be divided into butterflies and moths. In addition, moths are closely associated with human production and life. Most of moths harm grain, cottons, vegetables, oil plants, medicinal materials and crops. It is also a kind of forest pest which harms fruit trees, woods and storage articles. On the contrary, bombyx, tussah, *Philosamia cynthia*, eri silkworm, *Cordyceps sinensis* (precious herb) can have great economic benefit.

With great varieties, this illustrated handbook has indexed common Phalaenae insects about 1005 species, 13 subgenera, 536 genera, 12 tribes, 52 subfamilies, 25 families. Furthermore, it's a reference book to assist workers who are the forefront of production to study and identify the insects. Meanwhile the book fills the blank that there hasn't been systematic scientific research book in the field of insects of Yunnan.

This book took the combined efforts of many people during its compile. We especially wish to acknowledge Professor Houhun Li from Entomology Institute of Nankai University (Tianjin), Professor Wanzhi Cai and Professor Ding Yang from Department of Entomology of China Agricultural University.

This book can't be finished without the support of Gaoligong Mountains National Nature Reserve of Baoshan Authority. We also thank to the following institutes for giving us great support: Longyang Branch of Baoshan Authority, Nujiang County Conservation Bureau, Gongshan County Conservation Bureau, Fugong County Conservation Bureau, Tengchong County Conservation Bureau, Yingjiang County Tongbiguan Conservation Bureau, Longchuan County Conservation Bureau, Ruili City Conservation Bureau and Longling County Xiaoheishan Conservation Bureau.

This book recorded most large and medium-sized and parts of small-sized common moths for Gaoligong Mountains. Most of small-sized moths has yet to do further supplement and improvement. All the specimens of this book were collected, identified, processed and shoot by Pingzhi Yang, Lihua Zi. We sincerely thank Jing Li and Guixue Yang from Longyang District Conservation Bureau of Baoshan City, Quanyan Chen from Kunming Institute of Zoology(CAS).

The oversights are inevitable in this book. We heartily welcome comments and suggestions from our readers.

Pingzhi Yang
June 11th, 2014

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