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# 中國古地理圖集

Atlas of  
the Palaeogeography of China



地圖出版社

CARTOGRAPHIC PUBLISHING HOUSE

中國·北京 BEIJING CHINA



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## Atlas of the Palaeogeography of China

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# 前 言

全国性古地理的综合研究和系统编图是一项重要的基础地质研究工作。五十年代初期我国曾出版了中国古地理图册，所包括的地质时代到三叠纪为止。三十年来，我国开展了大规模的、全面的区域地质调查研究，在地质领域的各学科，如地层、古生物、沉积古地理和大地构造等方面，都有了重要进展。从五十年代后期起，地质、石油、煤炭等系统的地质学家，结合生产需要曾编制了不同比例尺、不同区域、不同时期的古地理图。七十年代，中国地质科学院组织编制了中国及亚洲地质图；地质矿产部又陆续组织编写了全国各大区及分省的区域地层表。从六十年代以来，我国不同的大地构造学派都曾编制了不同比例尺的中国大地构造图。上述工作都为中国古地理的研究与《中国古地理图集》的编制提供了有利条件和良好基础。近年来，沉积矿产和层控矿床与古地理环境和区域构造条件的密切关系日益受到重视。新全球构造理论的出现又为认识中国地壳的构造发展提供了新的启示，也为古地理、古构造的研究开辟了新的领域。《中国古地理图集》编制的主要目的就是揭示我国境内古地理演变的基本过程，从地史的角度研究中国地壳的构造发展及其在全球构造中的地位。

我们希望这本图集能够起到下列作用：

1. 在图集中将古地理与古构造结合起来；将板块构造与传统构造结合起来；使我国绚烂多彩的构造发展史和古地理演变史能够丰富和充实新全球构造的理论。

2. 图集在基本的沉积环境和构造背景方面能够服务于沉积矿产和层控矿床的战略探索和远景规划，并可为这些矿产的成矿条件和分布规律的研究提供基础地质依据与背景材料。

3. 图集的各类图幅与说明相互配合，具有明确的观点和较系统的资料，可供不同专业部门的地质工作者，高等学校、中等专业学校的地质、地理专业教师、学生使用，有助于他们了解中国地壳发展的基本历史；还可为其它专业科学工作者提供与他们的专业相关联的某些材料与概念。

本图集包括古地理图、古构造图、露头分布图、生物古地理图、柱状剖面图及沉积示意剖面图等共计 123 幅。各图组按时代顺序编排，一般以阶段古构造图为始；各纪图幅的编排则以露头分布图为始。中国大地构造分区简图及区域构造剖面图作为总结列于图页之末。中国地势图列为图集的序图，表示古地理演变及新构造运动的最终结果。总图例汇集了古地理、古构造、柱状剖面及沉积示意剖面图类的通用图例，列于图页之前。此外还有第四纪专用图例和各图幅单独使用的图例。图集的说明书计 20 余万字，按总论及各时代顺序集中排于图幅之后。为了便于国外读者使用，总论全部译成英文，各时代说明书也附有英文节要。各图幅的图名、图例及专业名称注记均用中英文对照。说明书之后还附有各图幅使用的资料点地名索引和各纪地层单位名称索引。参考文献只列了公开出版的主要著作。

编制《中国古地理图集》的任务为原国家地质总局于 1979 年底下达，由中国地质科学院地质研究所与武汉地质学院共同负责，贵州工学院与贵州 108 地质队个别人员参加。1980 年初组成了以王鸿祯为主编、楚旭春等为副主编的编委会和图集编图组。马丽芳负责编委会日常组织、协调工作。编图组分为中、晚元古代、早古生代、晚古生代、中生代和新生代五个断代组，分别由乔秀夫、傅锜、侯鸿飞、刘本培、楚旭春负责。各时代、各纪的图幅负责人按时代顺序是：乔秀夫



马丽芳、杨家骝、傅锬、王鸿祯、侯鸿飞、严克明、李树誉、刘本培、黄怀曾、刘训、周正国、楚旭春、闵隆瑞。

1980年上半年，根据主编提出的主导思想与表达方式的设想，编委会拟定了研究项目的总体设计。在以后的实践过程中，又对设计内容作了多次补充与修改。1980年各断代组作了关键地区的野外工作，并试编了个别图幅。1981年全面开展古地理研究及编图工作，同年底基本完成了初稿。1982年初进行了内部审查与修改补充。1982年4月至5月，邀请有关专家对图稿分五个断代进行分组审查，其后又作了相应的修改。1982年6月由地质矿产部科技局和中国地质科学院组织评审委员会，对图幅与文字作了最终评审。评审委员会由黄汲清、朱夏、李春昱、袁见齐、张文佑、马杏垣、叶连俊、业治铮、路兆洽、田在艺、崔克信、周明镇、刘鸿允、丁国瑜、刘宝珺、廖克、项礼文、冯增昭、任纪舜、刘和甫、陈焕疆及张守信等组成。尹赞勋、杨遵仪、陆用森等应邀出席了评审会议。参加各断代分组评审和图集设计、编稿评审工作的还有：李廷栋、劳秋元、邢裕盛、陆宗斌、林宝玉、李宝芳、贾慧贞、王乃文、李佩贤、李云通、王大宁、姚慧君、王乃樑、王明德、邹由基、奚跃昆、张思洪、辛洪茹等。评审会议之后，对图集的内容和形式作了进一步的修改与统一，于1983年6月正式定稿。

图集的地理底图由地图出版社提供。编稿制图主要由谢良珍、沈永慧、赵玉栋、李兆星、程燕娜等承担；总图例由刘训协助编制。在编图过程中，全体编者团结协作，互相支援，许多编者主动承担了自己图幅以外的工作，使图集的编制工作得以顺利完成。

图集的编制工作始终得到地质矿产部、中国地质科学院、武汉地质学院、中国地质科学院地质研究所各级领导与贵州工学院、贵州108地质队的支持与关心，使编图工作能够顺利进行。地图出版社和中国地质图制印厂各级领导对本图集多方支持，通力协作；有关技术人员和制印工人付出了辛勤的劳动。在资料方面，除中国地质科学院地质研究所各室外，还得到各省、市、自治区地质局及所属区域地质调查队、研究所以及中国科学院、石油、煤炭和海洋地质系统有关单位的大力支持。对于以上在各方面给予支持和协助的部门、单位及个人，我们表示深切的谢意。

这部综合性、多图种的全国性古地理图集的编制是首次尝试。限于编者的水平和某些地区的研究程度，对一些地质问题的解释和处理肯定会有不当以至错误之处。图集各图幅之间，图与文字说明之间也难免存在不一致之处。但是，编图的主导思想、观点和体系，各幅图件所采取的表达方式则是统一的。为了表示各古地理单元的相对位置在地质时期中曾不断发生变化，我们采用了在现代地理位置上标出构造接合线与地壳消减带的方法。这是由于目前古地磁及其它资料的限制，尚难恢复各个古大陆及古海域在各地质时代所处的原始位置。

有关资料的使用一般截止到1981年底，但对关键地区和边远地区的最新成果则尽量给予反映。

随着研究工作的进展和新资料的获得，本图集的某些内容及所表达的概念，今后很可能需要修改，对许多地质问题的认识也会有所改变，但本图集作为一定历史时期的阶段总结，我们期望将发挥其应有的作用，并热忱地欢迎读者指正。

《中国古地理图集》编辑委员会

一九八三年十二月

## PREFACE

A comprehensive treatise of the palaeogeography and compilation of a systematic palaeogeographic atlas of China constitute an essential field of fundamental geological research. The first palaeogeographic atlas of China was published in the early fifties which covers the geologic periods from Cambrian to Triassic. During the thirty years past, extensive and systematic geological surveying has been carried out in China and great progress has been made in many branches of geology, including stratigraphy, palaeontology, sedimentation, palaeogeography and geotectonics. Since the late fifties palaeogeographic maps of various ages and regions, in different scales and for specific purposes, have been compiled by geologists working in different departments, especially in petroleum and coal industry. Since the sixties all-China geotectonic maps in different scales and representing different schools of geotectonic thought have appeared. In the seventies the Chinese Academy of Geological Sciences had organized the compilation of the Geological Map of China and the Geological Map of Asia, and the Ministry of Geology and Mineral Resources has since sponsored the successive publication of regional stratigraphic tables of nearly all parts of China. All the achievements mentioned above have provided favourable conditions and laid a solid foundation for the compilation of the present Atlas. In recent years the intimate relation between the sedimentary and strata-bound mineral deposits and their palaeogeographic and geotectonic background has received ever more attention. The appearance of the plate tectonics theory has ushered a new line of approach to the study of palaeogeography, palaeotectonics and crustal evolution. The main aim of this Atlas is thus to reveal the fundamental course in palaeogeographic development and crustal evolution of China, and to appraise its position and implication in global tectonics.

We hope this Atlas will fulfill the following requirements:

1. Through the combined research in palaeogeography and palaeotectonics and the coordination of the plate tectonics theory and classical geotectonic concepts, it will lead to a better understanding of the interesting and varied tectonic and palaeogeographic development of China, so as to enrich and supplement the new global tectonics theory.
2. It will provide a general information on sedimentary environment and geotectonic background for a strategic perspective of sedimentary and strata-bound mineral deposits and furnish basic geologic data material for study of their distribution and metallogenetic conditions.
3. With its clear and systematic viewpoint and mode of presentation, with the coordination of the various maps and explanations, it will help geologists working in various fields, teachers and students in geology and geography in universities, colleges and technical schools, to understand the general history of crustal evolution of China, and to furnish scientific workers in other fields with relevant information that they may need.

The compilation work was started in the summer of 1980 and the preliminary drafts were completed by the end of 1982. The final drafting work was all accomplished by the Chinese Geologic Cartographic Printing House. The Atlas is in octavo volume. It includes 123 plates consisting of palaeogeographic maps, palaeobiogeographic maps, columnar sections and sedimentation profiles, etc. They are arranged in groups in the order of diminishing age, in accordance with tectonic stages. The map groups of each stage usually begin with a palaeotectonic map and each geologic period starts with an outcrop map. An outline map showing the geotectonic units of China and a series of regional tectonic profiles showing their historic development came last in the Atlas with the function of a summary.

A topographic map of China was put in advance of other maps as a prologue, which may serve as a reference for location of specific geographic names. In the general legend are included those commonly used in palaeogeographic maps, columnar sections and sedimentation profiles, which are given in the beginning of the volume. Legends used only in specified maps, such as the palaeotectonic and palaeobiogeographic, are given in the respective plates. A separate legend is compiled for the Quaternary. The explanatory texts amount to about 200,000 words and appear after all the maps, arranged in order of age. For the convenience of foreign readers an abridged English explanation has been prepared, which contains a complete translation of the first chapter (general account) and abstracts of the remaining chapters. Legends and professional annotations on the maps are also given both in Chinese and in English. Data locality names and stratigraphic names (in Chinese and English) came as appendices at the end of the volume. Only the more



important published monographs and papers are included in the references.

This is probably the first attempt to integrate in one atlas the varied and multidisciplinary content in regard to the palaeogeography of China. Owing to the limited knowledge of the compilers and the unequal degree of research in different regions, it is inevitable that the interpretation of some geologic data may be inadequate or even erroneous, and there may be inconsistencies and contradictions between different kinds of maps and between the maps and the explanatory texts. But we have endeavoured to maintain an explicit and consistent point of view throughout, and to make the mode of presentation unified in all the maps. In order to emphasize the fact that the relative positions of different palaeogeographic units have changed in geologic history, we have marked out the main crustal consumption zones or geosutures on the maps and have indicated the age of their closure. This is because with the present palaeomagnetic and other kinds of data it is impossible to reconstruct the original position of the landmasses and marine basins throughout geologic times. The data used in the Atlas are up to the end of 1981, but effort has been made to reflect the newest result of research in the key areas and frontier regions.

With the progress of study and accumulation of new data material some of the content and concept expressed in this Atlas may have to be revised, and the understanding of many geological problems may have to be changed. But we hope the Atlas, as an overall summary of knowledge in a certain historic stage, will play its proper role and meet the need of the time.

The Compilation Committee,  
December, 1983.

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# 通用图例

## GENERAL LEGENDS

### 古地理图

#### FOR PALAEOGEOGRAPHIC MAPS

#### I、古地理环境

##### PALAEOGEOGRAPHIC ENVIRONMENTS

##### 一、沉积区

##### SEDIMENTATION REGIONS

##### 1. 陆相沉积区

##### terrestrial regions

一般陆相沉积或未分  
terrestrial in general or undifferentiated

干旱陆相沉积区  
arid terrestrial

潮湿陆相沉积区  
humid terrestrial

##### 2. 海相沉积区

##### marine regions

滨海及浅海  
littoral and shallow seas

深浅海、半深海上部及未分海域  
deeper shallow seas, upper bathyal seas and undifferentiated marine regions

半深海及大陆坡下部  
lower bathyal seas, lower part of continental slopes

深海及洋盆  
abyssal seas and oceanic basins

##### 3. 海陆过渡相沉积区

##### transitional regions

近海沉陷盆地及海陆交互相沉积区  
onshore subsiding basins and paralic areas

##### 二、剥蚀区

##### EROSIONAL REGIONS

古陆、隆起剥蚀区(古生代及以前)  
oldlands, uplifted erosional regions (for Paleozoic and older)

低地、丘陵及低山(中生代及以后)  
lowlands, hilly regions and low ranges (for Mesozoic and later)

低山及中高山系(中生代及以后)  
low ranges, median & high mountains (for Mesozoic and later)

#### 三、沉积类型

##### SEDIMENTARY TYPES

稳定类型: a) 陆表海、陆棚海沉积, b) 内陆开阔盆地河湖沉积  
stable type: epicontinental & continental shelf seas; inland open basin flu. and lac. deposits

过渡类型: a) 大陆坡上部、边缘海, b) 大陆内部沉陷带沉积  
intermediate type: upper part of continental slope, marginal sea; intracontinental large subsiding zone deposits

活动类型: a) 岛弧海、海槽, b) 大陆边缘火山带、山前磨拉石沉积  
mobile type: island arc sea, sea trough; continental margin volcanic zone, piedmont molasse deposits

#### II、地壳消减带及断裂

##### CRUSTAL CONSUMPTION ZONES AND FAULTS (BROKEN LINES INFERRED)

后期地壳消减带  
subsequent crustal consumption zones

海域扩张带  
sea floor spreading zones

地壳俯冲带  
crustal subduction zones

地壳叠接消减带  
accretional crustal consumption zones

地壳对接消减带  
convergent crustal consumption zones

后期平移断裂  
subsequent transcurrent faults

同沉积断裂  
syndepositional faults

裂谷带、裂陷带  
rift zones and aulacogens

#### III、火山活动(叠加符号)

##### VOLCANIC ACTIVITIES (SUPERPOSED)

玄武岩、基性火山岩  
basalt, basic volcanics

中基性火山岩  
median-basic volcanics

安山岩、中性火山岩  
andesite, median volcanics

中酸性火山岩  
median-acidic volcanics

流纹岩、酸性火山岩  
rhyolite, acidic volcanics

粗面岩、偏碱性火山岩  
trachyte, sub-alkaline volcanics

#### IV、其它

##### OTHERS

海岸线及沉积盆地界线  
sea shore lines and sedimentary basin boundaries

地层沉积组合界线: a) 海相, b) 陆相  
sedimentary association boundaries: a) marine, b) terrestrial

海进方向  
direction of transgressions

碎屑搬运方向  
direction of sediment transportation

海底隆起界线  
submarine uplifts boundaries

生物礁  
bioreefs

石膏、岩盐  
gypsum & rock salt

### 古构造图

#### FOR PALAEOTECTONIC MAPS

后期地壳消减带  
subsequent crustal consumption zones

海域扩张带  
sea floor spreading zones

地壳俯冲带  
crustal subduction zones

地壳叠接消减带  
accretional crustal consumption zones

地壳对接消减带  
convergent crustal consumption zones

后期大型平移断裂  
subsequent transcurrent faults

同沉积断裂或基底断裂  
syndepositional and basement fault

裂谷带、裂陷带  
rift zones and aulacogens

构造单元界线  
boundaries of tectonic units

构造域界线  
boundaries of tectonic domains

中酸性侵入岩  
median-acidic intrusive rocks

超基性岩  
ultrabasic rocks

混杂堆积或滑塌堆积  
melanges or olistostomes

变质带  
metamorphic zones

中基性火山岩  
median-basic volcanics

中酸性火山岩  
median-acidic volcanics

偏碱性火山岩  
sub-alkaline volcanics

构造单元编号  
number of tectonic units